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PISTONRING MANUFACTURING COMPANY

AADISHAKTI
AUTOMOTIVE PISTONRINGS



With over 20 years of experience in pistonrings, Aadishakti Automotive Pistonrings have become a well known name in the automobile world. We are the manufacturers & suppliers of world class piston rings. As north India's one of the leading pistonring manufacturers, we and our well trained team is always engage in upgrading our quality, designs for a great association with you.

With the adaptation of latest techniques and updated products, we always keep our services at the highest level and making continual improvements in all our processes. To provide the customer with the best quality product at an affordable/ competitive price. This shall be achieved by implementing quality management system as per international standards.

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PISTON RING PREFIXES

No Preix	Cast Iron Compression Rings Cast Iron or Chrome Oil Rings	2D Preix	Have various ring face coatings and materials that are suitable for modern diesel engine designs
2C Preix	Chrome Top Compression Rings Chrome Oil Rings	2N Preix	Contains Nitride components (top ring and/or 3 pc oil rings)
2M Preix.....	Moly Top Compression Rings Chrome Oil Rings		

CODING AND MATERIAL ABBREVIATIONS

1PCO	1PIECE OIL	PVD GN	PVD NITRIDE
2PCO	2 PIECE OIL	PC	PHOSPHATE COATED
FV FLEX-VENT®	3 PIECE FLEX VENT	PM	PLASMA MOLY
BF.....	BARREL FACE	RVT	REVERSE TORSIONAL
CC	CERAMIC CHROME	RVT BF	REVERSE TOSIONAL BARREL FACE
CR	CHROME	SCRP	SCRAPER
CHR.....	CHROME RAIL	SCRP TF	SCRAPER TAPER FACE
CI.....	CARBIDIC IRON	SS.....	STAINLESS STEEL
CF	CONFORMATIC	S	STEEL
CF KST	CONFORMATIC KEYSTONE	SN	STEEL NITRIDE
DI.....	DUCTILE IRON	ST	STRAIGHT FACE
FKST	FULL KEYSTONE	TF	TAPER FACE
GI.....	GREY IRON	TFN	TAPER FACE NAPIER
GL	GROOVE LOCK SPACER	TFN CI.....	TAPER FACE NAPIER CARBIDIC IRON
HKST.....	HALF KEYSTONE	T	TORSIONAL
DI.....	HIGH TENSIL	TBF.....	TORSIONAL BARREL FACE
KYS	KEY STONE	TTF.....	TORSIONAL TAPER FACE
N.....	NAPIER	3CR	TRIPLE CHROME
GN	NITRIDE		

ENGINE BUILDING AND RING INSTALLATION

IMPORTANT ASPECTS OF ENGINE REBUILDING

- Lack of engine cleanliness
- Rough/imperfect bore entrance chamfers
- Burr on bottom of bore
- Poor cylinder bore inish
- Spiraling rings manually onto piston
- Excessive spreading rings manually onto piston
- Not using/improper use of ring compressor
- Piston damage – dents, groove damage

MANY THINGS ARE NOT REBUILDERS' FAULT

- Computers (bad calibration)
- Sensors (bad sensor)
- EGR valve (too much exhaust)
- Intake manifold (debris, leakage, runs hot)



THINGS TO REMEMBER DURING RING INSTALLATION

- Insert rings squarely into the bore and measure end gap with feeler gauge
- Adjust gap if needed by filing both sides of gap equally
- Use ring expander tool to install rings on piston, so as not to deform ring—do not spiral on rings
- Install directional rings with the dot up (otherwise oil pumping may occur)
- Install 2.0mm 3-piece oil ring with expander points up to avoid catching in drain-back hole/slot in oil groove bottom
- Stagger location of end gaps on each ring 180 degrees apart
- Clean bores with hot soapy water and scrub brush; wipe with clean white rag to check for any residue
- Lightly oil cylinder walls and rings with regular non-synthetic motor oil
- Properly tighten ring compressor so rings don't catch on edge of cylinder or pop out in bore (don't force piston if it is hung up)
- Typical engine break-in: use conventional motor oil—change oil after first 3,000 miles/ 4,828 kilometers. Use only synthetic motor oil if originally specified by manufacturer

PISTON RING INSTALLER

This handy ring install tool is inexpensive and easy to use. Just insert the ring ends in wedge jaws, expand ring gently, and slip into groove. Also ideal for removing rings easily, without damage.

SIZE CONVERSIONS

MULTIPLY	BY	TO OBTAIN
Inches	25.4	Millimeters
Millimeters	.03937	Inches
Cubic Inches	16.38716	Cubic Centimeters
Liters	61.023	Cubic Inches

COMMON INCH OVER/UNDERSIZES CONVERTED TO MILLIMETERS

DECIMAL INCHES	MILLIMETERS	DECIMAL INCHES	MILLIMETERS
.001	0.0254	.020	0.5080
.002	0.0508	.030	0.7620
.003	0.0762	.040	1.0160
.005	0.1270	.050	1.2700
.010	0.2540	.060	1.5240

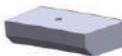
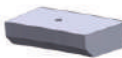
COMMON MILLIMETER OVER/UNDERSIZES CONVERTED TO INCHES

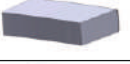
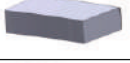
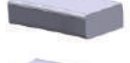
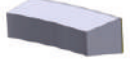
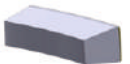
MILLIMETERS	DECIMAL INCHES	MILLIMETERS	DECIMAL INCHES
0.0250	.0010	0.8000	.0315
0.0500	.0020	1.0000	.0394
0.2500	.0098	1.2500	.0492
0.3000	.0118	1.5000	.0591
0.5000	.0197	2.0000	.0787
0.7500	.0295		

RING WIDTH CONVERSION CHART

DECIMAL INCHES	MILLIMETERS	FRACTION
.0390	1.00	
.0469	1.20	3/64"
.0570	1.45	
.0590	1.50	
.0625	1.59	1/16"
.0690	1.75	
.0710	1.80	
.0770	1.95	
.0781	1.98	5/64"
.0787	2.00	
.0880	2.20	
.0890	2.25	
.0900	2.30	
.0937	2.38	3/32"
.0950	2.40	
.0980	2.50	
.1100	2.80	
.1180	3.00	
.1210	3.07	
.1230	3.12	
.1250	3.18	1/8"
.1280	3.25	
.1350	3.43	
.1380	3.50	
.1406	3.57	9/64"
.1560	3.97	5/32"
.1570	3.98	
.1575	4.00	
.1770	4.50	
.1875	4.75	3/16"
.1970	5.00	
.2187	5.50	
.2190	5.56	7/32"
.2360	6.00	
.2500	6.35	1/4"
.2560	6.50	
.3125	7.94	5/16"
.3750	9.53	3/8"

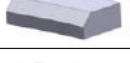
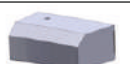
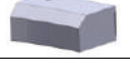
PISTON RING TYPES

GV_TYP	TYPE	PROFILE	G1_COAT	G1_MATL	
406, 407	LCR	NAPIER HI TENSILE	PHOSPHATE	DUCTILE IRON	
242	UCR	REV TORSIONAL BARREL FACE	CHROME	DUCTILE IRON	
123	LCR	REV TORSIONAL HI TENSILE	PHOSPHATE	DUCTILE IRON	
223	LCR	REVERSE TORSIONAL	CHROME	DUCTILE IRON	
349	LCR	REVERSE TORSIONAL	CHROME	GREY IRON	
209, 214	LCR	REVERSE TORSIONAL	PHOSPHATE	DUCTILE IRON	
126, 130, 610	LCR	REVERSE TORSIONAL	PHOSPHATE	GREY IRON	
352	LCR	REVERSE TORSIONAL	TRIPLE CHROME	GREY IRON	
401, 435	LCR	SCRAPER	PHOSPHATE	GREY IRON	
210, 234	LCR	SCRAPER TAPER FACE	PHOSPHATE	DUCTILE IRON	
236	LCR	TAPER FACE	CHROME	DUCTILE IRON	
206, 218	LCR	TAPER FACE	PHOSPHATE	DUCTILE IRON	
202, 229	LCR	TORSIONAL TAPER FACE	PHOSPHATE	DUCTILE IRON	
501, 520	OCR	1 PC.	PHOSPHATE	GREY IRON	
502	OCR	1 PC. HI TENSIL	PHOSPHATE	DUCTILE IRON	
672, 708	OCR	3PC. FLEX-VENT	NITRIDE	STEEL RAIL/ STAINLESS EXP	
579	OCR	CONFORMAT F KSTON 5 DEG	CHROME	GREY IRON	
553, 565, 881	OCR	2PC. CONFORMATIC	PHOSPHATE	COILED SPRING	
5, 9, 46, 52, 54, 55, 56, 57, 58, 59, 85, 533, 541, 621, 622, 635, 710, 728, 732, 856, 858, 859, 860, 861, 869, 870, 871, 872, 874, 934, 935, 981, 985, 986, 989, 990, 991, 993, 995, 996, 997, 999	OCR	3PC. FLEX-VENT	CHROME RAIL	STEEL RAIL/ STAINLESS EXP	

GV_TYP	TYPE	PROFILE	G1_COAT	G1_MATL	
501, 502	OCR	2PC. CONFORMATIC	INNER SPRING	SPACER SPRING	
204	OCR	CONFORMATIC	CHROME	DUCTILE IRON	
248	OCR	CONFORMATIC	CHROME	HT IRON	
203	OCR	CONFORMATIC	NITRIDED	STAINLESS STEEL	
200	OCR	CONFORMATIC	PHOSPHATE	GREY IRON	
239, 378	UCR	BARREL FACE	CERAMIC CHROME	DUCTILE IRON	
205, 217, 226, 376	UCR	BARREL FACE	CHROME	DUCTILE IRON	
398	UCR	BARREL FACE	CHROME	STEEL	
363	UCR	BARRELL FACE	CHROME	GREY IRON	
362	UCR	BARRELL FACE	TRIPLE CHROME	GREY IRON	
25	UCR	BARREL FACE	PHOSPHATE	DUCTILE IRON	
32, 252	UCR	BARREL FACE	PHOSPHATE	GREY IRON	
219, 231, 334, 337	UCR	BARREL FACE	PLASMA MOLY	DUCTILE IRON	
327	UCR	BARREL FACE	PLASMA MOLY	GREY IRON	
397	UCR	BARREL FACE	PLASMA MOLY	STEEL	
201, 322	UCR	BARREL FACE	NITRIDE	STAINLESS STEEL	
225	UCR	FULL KEY STONE 15 DEG BARREL FACE	CHROME	DUCTILE IRON	
224, 233	UCR	FULL KEY STONE 15 DEG BARREL FACE	PLASMA MOLY	DUCTILE IRON	
221	UCR	FULL KEY STONE 15DEG BARREL FACE	CERAMIC CHROME	DUCTILE IRON	
213	UCR	FULL KEY STONE 6 DEG BARREL FACE	CERAMIC CHROME	DUCTILE IRON	
227, 238	UCR	FULL KEY STONE 6 DEG BARREL FACE	CHROME	DUCTILE IRON	

PISTON RING TYPES (continued)

GV_TYP	TYPE	PROFILE	G1_COAT	G1_MATL	
240	UCR	FULL KEY STONE 6 DEG TORS BBL F	CERAMIC CHROME	DUCTILE IRON	
222	UCR	FULL KEY STONE 6DEG BARREL FACE	CERAMIC CHROME	DUCTILE IRON	
208, 241	UCR	FULL KEY STONE 7 DEG BARREL FACE	CERAMIC CHROME	DUCTILE IRON	
170	LCR	FULL KEY STONE 15 DEG TORSION	PHOSPHATE	GREY IRON	
462	UCR	FULL KEY STONE 15 DEG SCRAPER	PHOSPHATE	GREY IRON	
165	UCR	FULL KEY STONE 10 DEG TORSION	PHOSPHATE	GREY IRON	
365	UCR	FULL KEY STONE 10 DEG TORSION	CHROME	DUCTILE IRON	
372	UCR	FULL KEY STONE 15 DEG TORSION	CHROME	DUCTILE IRON	
373	UCR	FULL KEY STONE 15 DEG TORSION	PLASMA MOLY	DUCTILE IRON	
381	UCR	FULL KEY STONE 20 DEG TORSION	CHROME	DUCTILE IRON	
180	UCR	FULL KEY STONE 20 DEG TORSION	PHOSPHATE	GREY IRON	
361	UCR	FULL KEY STONE 6 DEG TORSION	CHROME	DUCTILE IRON	
160	UCR	FULL KEY STONE 6 DEG TORSION	PHOSPHATE	GREY IRON	
235	LCR	1/2 KEY STONE 7 DEG REV TORS	CHROME	DUCTILE IRON	
211	UCR	1/2 KEY STONE 7 DEG BARREL FACE	CERAMIC CHROME	DUCTILE IRON	
232	UCR	1/2 KEY STONE 7 DEG BARREL FACE	CHROME	DUCTILE IRON	
228	UCR	1/2 KEY STONE 7 DEG BARREL FACE	PLASMA MOLY	DUCTILE IRON	
243	UCR	1/2 KEY STONE 7DEG REV TOR BBL	PLASMA MOLY	DUCTILE IRON	
390	UCR	1/2 KEY STONE 7.5 DEG	CHROME	GREY IRON	
394	UCR	1/2 KEY STONE 10 DEG	CHROME	DUCTILE IRON	
370	UCR	1/2 KEY STONE 7 DEG TORSION	TRIPLE CHROME	GREY IRON	

GV_TYP	TYPE	PROFILE	G1_COAT	G1_MATL	
95	UCR	1/2 KEY STONE 10 DEG	PHOSPHATE	GREY IRON	
90	UCR	1/2 KEY STONE 5 DEG	PHOSPHATE	GREY IRON	
1	UCR	STRAIGHT FACE	PHOSPHATE	GREY IRON	
129	LCR	TORSIONAL	PHOSPHATE	CARBIDIC IRON	
102, 135	UCR	TORSIONAL	PHOSPHATE	GREY IRON	
339, 345	UCR	TORSIONAL	PLASMA MOLY	GREY IRON	
395	UCR	TORSIONAL	PLASMA MOLY	STEEL	
212	UCR	TORSIONAL BARREL FACE	CERAMIC CHROME	DUCTILE IRON	
215, 244	UCR	TORSIONAL BARREL FACE	CHROME	DUCTILE IRON	
399	UCR	TORSIONAL BARREL FACE	CHROME	STEEL	
326	UCR	TORSIONAL BARREL FACE	NITRIDE	STAINLESS STEEL	
388	UCR	TORSIONAL BARREL FACE	PLASMA MOLY	STEEL	
220, 230	UCR	TORSIONAL BARREL FACE	PLASMA MOLY	DUCTILE IRON	
103	UCR	TORSIONAL,HI TENSIL	PHOSPHATE	DUCTILE IRON	
333, 335, 336	UCR	TORSIONAL,HI TENSIL	PLASMA MOLY	DUCTILE IRON	
901	OCR	GROOVE LOCK SPACER	BLACK OXIDE	NON-SEGMENTED STEEL	
902	OCR	GROOVE LOCK SPACER	BLACK OXIDE	NON-SEGMENTED STEEL	

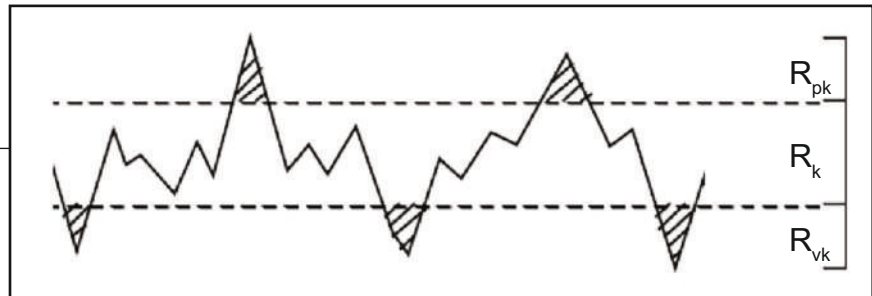
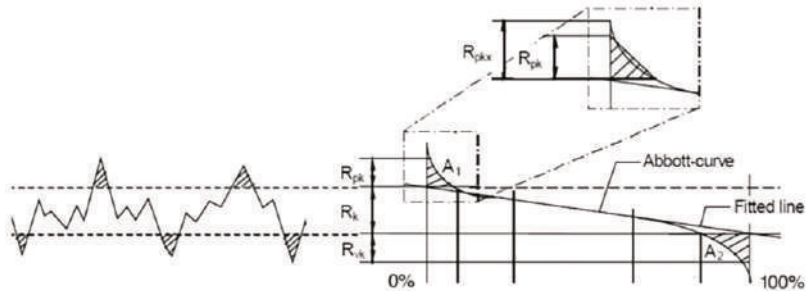
BORE FINISH

Rpk, Rk, and Rvk have replaced **Ra** as the most important baselines of measuring bore finish. These present a much more defined description of the actual bore finish surface.

Bearing Ratio Curve (percent of material contact between cylinder wall and ring)

Definition of Roughness Characteristics by DIN EN ISO 13 565 (1998.04)

- A_1 Peak material volume
- A_2 Area valley ratio
- R_k Core roughness depth
- R_{pk} Reduced peak height
- R_{vk} Reduced valley depth
- M_{r1} Peak material ratio
- M_{r2} Valley material ratio



Reduced Peak Height (Rpk)

The top portion of the surface, which will quickly be worn away when the engine begins to run

Core Roughness Depth (Rk)

The long term running surface, which will influence the performance and life of the cylinder

Reduced Valley Depth (Rvk)

The oil retaining capability of the deep troughs, which have been machined into the surface

INDUSTRY RECOMMENDATIONS

General Applications:

Good performance with good life

Rpk: 8-12 micro-inch (<12 optimum)

Rk: 25-35 micro-inch (25 optimum)

Rvk: 40-50 micro-inch (40 optimum)

Ra: 15-20 micro-inch and 12-23 allowable

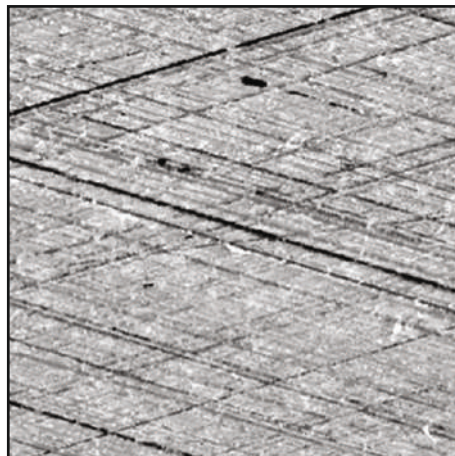
Pro-Stock & NASCAR:

Much smoother finish, much less life, but less friction

Rpk: 3-5 micro-inch

Rk: 12-18 micro-inch

Rvk: 20-25 micro-inch



OIL RETENTION & CROSS HATCH ANGLE

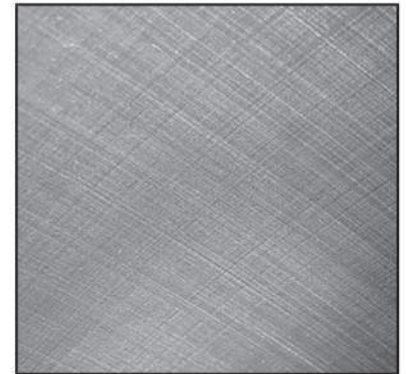
Oil Retention (valleys in bore surface)

- Rvk has very strong correlation to oil consumption
- Excessive Rvk leads to high oil consumption and excessive ring rotation
- Insufficient Rvk can lead to excessive ring and bore wear

Cross Hatch Angle

- Typical automotive application: 45° to each other (or 22°-32° to the horizontal deck surface)
- Cross hatch angle should be the same throughout the length of the cylinder and not latten out at either end
- Performance racing low tension rings: 20°-30°
- Nikasil® – Thermal Spray Bores – Hypereutectic Bores: 10°-15°

Source: Cross Hatch Angle data provided by Sunnen Products Company



HONING (GENERAL APPLICATIONS)

Standard Honing Practices

Stock Removal

- .0030" with 80-100 grit stone
 - Bulk stock removal;
produces deep valleys
- .0015" with 280-320 grit stone
 - Prepares core roughness;
regulates valley depth
- .0005" with 400-600 grit stone
 - Prepares plateau attributes

Finish

- 320 grit abrasive lled nylon ilament brush

OR

- 800 grit cork bond stone
 - Removes surface defects
left behind from honing

HONING (RACING ENGINES)

Standard Honing Practices

Stock Removal

- EHU412 150 grit stone
 - Bulk stock removal;
produces deep valleys
- .0020" with JHU623 280 grit stone
 - Prepares core roughness;
regulates valley depth
- .0003" with C30J95 500 grit stone
 - These stones need to be cut
down to 2.750" long
 - Prepares plateau attributes



Rpk: < 10 micro-inch

Rvk: 18-25 micro-inch

BORE FINISH (continued)

COMMON DEVIATIONS FROM A GOOD BORE FINISH

Cross hatch grooves irregularly spaced

Causes: Varying reciprocation rates, poor stone breakdown with alternate loading and breakdown, stone grade too hard and/or grit too coarse

Effect: Poor oil distribution, erratic break-in, poor oil economy

Wide, deep cross hatch grooves

Causes: Stone grit too coarse, excessive stone pressure, poor stone break-down, insufficient lubricant

Effect: Causes abnormal wear, excessive oil consumption, poor and variable break-in period

One directional cut

Causes: Excessive play in hone components

Effect: Causes rapid wear, poor seating, excessive ring rotation, lowers oil control

Low cross hatch angle

Causes: Low reciprocation rate compared to RPM used

Effects: High impact forces causing excessive wear, poor oil distribution, slower break-in of rings

Cross hatch groove folded and fragmented

Causes: Stone grit too coarse and/or grade too soft, insufficient lubricant

Effect: Causes scratching, high wear, raises ring temperatures, high and erratic oil consumption

Too little plateau

Causes: Stone grit too coarse, insufficient stock removal per cut

Effect: Excessive ring wear, high temperatures

Glazed plateau

Causes: Excessive stone pressures, loaded stones (too hard a grade), insufficient lubricant

Effect: Slows down seating-in and increases oil consumption

Excessive voids in cylinder wall

Causes: Excessive stone pressures, loaded stones (too hard a grade), insufficient lubricant

Effect: Increases oil consumption, rapid wear, reduces uniformity from engine to engine

CHECKING COMPRESSION RING GAPS

RECOMMENDED AUTOMOTIVE COMPRESSION RING GAP CLEARANCES

CYLINDER DIAMETER IN MILLIMETERS	RING GAP TOLERANCE IN MILLIMETERS
25.4 to 60.00496	0.1524 to 0.3556
60.0075 to 74.99096	0.2032 to 0.4064
74.9935 to 89.97696	0.254 to 0.508
89.9795 to 109.9795	0.3048 to 0.5588
109.982 to 129.982	0.3556 to 0.6604
129.9845 to 149.9845	0.4064 to 0.762
149.987 to 175.0035	0.508 to 0.889
175.006 to 228.5975	0.6096 to 1.0414

CYLINDER DIAMETER IN INCHES	RING GAP TOLERANCE IN INCHES
1.0000 to 2.3624	.006 to .014
2.3625 to 2.9524	.008 to .016
2.9525 to 3.5424	.010 to .020
3.5425 to 4.3299	.012 to .022
4.3300 to 5.1174	.014 to .026
4.3300 to 5.1174	.016 to .030
5.9050 to 6.8899	.020 to .035
6.8900 to 8.9999	.024 to .041

An important fact to remember is that these tolerances are rigidly adhered to by the manufacturers and that the ring gaps are inspected in gauges accurate to .0001" at the cylinder diameter for which the ring is manufactured. Any increase in the diameter of the cylinder the ring is being used in, over the designated size, results in an increase of approximately .003" in ring gap for each .001" increase in cylinder diameter.

										
ACURA										
D16A1	1590	4	1986-89	1.6L Integra	75.00	1.20	2.92	AS1001	4 Cyl.	STD
						1.50	3.23	AS1001010		0.25
						2.80	3.30	AS1001020		0.50
								AS1001030		0.75
								AS1001040		1.00
								AS1001050		1.50
B17A1,	1678		1991-93	1.6L Integra	81.00	1.00	3.33	AS1002	4 Cyl.	STD
B18C1	1797		1990-01	1.8L Integra		1.20	3.15	AS1002010		0.25
B18A1, B18B1, B18C5	1834		1990-01			2.80	3.18	AS1002020		0.50
								AS1002030		0.75
								AS1002040		1.00
C25A1	2494		1986-87	2.5L Legend	84.00	1.20	3.33	AS1003	6 Cyl.	STD
						1.20	3.33	AS1003010		0.50
						4.00	3.43	AS1003020		0.75
								AS1003030		1.00
G25A, G25A1, G25A4	2456		1991-98	2.5iL TL, Vigor	85.00	1.20	3.33	AS1004	5 Cyl.	STD
						1.20	3.35	AS1004010		0.50
						2.80	2.67	AS1004020		0.75
								AS1004030		1.00
F23A1	2254		1998-99	2.3L CL	86.00	1.20	3.33	AS1005	4 Cyl.	STD
						1.20	3.58	AS1005010		0.50
						2.80	2.92	AS1005020		0.75
								AS1005030		1.00
J30A1	2977		1997-98	3.0L CL	86.00	1.20	3.33	AS1006	6 Cyl.	STD
						1.20	3.58	AS1006010		0.50
						2.80	2.92	AS1006020		0.75
								AS1006030		1.00
K20A2, K20A3, K20Z1	1998		2002-08	2.0L RSX	86.00	1.20	3.12	AS1007	4 Cyl.	STD
						1.20	3.58	AS1007010		0.50
						2.00	2.79	AS1007020		0.75
								AS1007030		1.00
C27A1	2675		1987-97	2.7L Legend	87.00	1.20	3.33	AS1008	6 Cyl.	STD
						1.20	3.35	AS1008010		0.50
						4.00	3.43	AS1008020		0.75
								AS1008030		1.00
K24A2	2354		2003-10	2.4L FI DOHC TSX	87.00	1.20	3.12	AS1009	4 Cyl.	STD
						1.20	3.35	AS1009010		0.50
						2.50	2.67	AS1009020		0.75
								AS1009030		1.00
J32A1, J32A2, J32A3	3210		1999-08	3.2L CL-S, TL, TL-S	89.00	1.20	3.33	AS1010	6 Cyl.	STD
J35A1, J35A3, J35A6,	3471		2001-17	3.5L MDX, RDX, RL, LX, TL,		1.20	3.68	AS1010010		0.50
J35A8, J35Y4, J35Z2,				TL-S, TSX						
J35Z6,						2.80	2.79	AS1010020		0.75
								AS1010030		1.00
C30A1, C30A	2977		1991-05	3.0L NSX, NSX-T	90.00	1.20	3.53	AS1011	6 Cyl.	STD
C32A1, C32A6	3206		1991-98	3.2L Legend, TL		1.20	3.81	AS1011010		0.50
						2.80	3.18	AS1011020		0.75
								AS1011030		1.00
C35A1	3474		1996-04	3.5L RL	90.00	1.50	3.63	AS1012	6 Cyl.	STD
						1.20	3.81	AS1012010		0.50
						2.80	3.18	AS1012020		0.75
								AS1012030		1.00
C32B1	3179		1997-05	3.2L NSX, NSX-T	93.00	1.20	3.73	AS1013	6 Cyl.	STD
						1.20	3.81	AS1013010		0.25
						2.50	2.79	AS1013020		0.50
								AS1013030		0.75
								AS1013040		1.00
								AS1014		STD
								AS1014010		0.25
								AS1014020		0.50
								AS1014030		0.75
								AS1014040		1.00

          											
AGRICULTURE											
KUBOTA					64	2.5	2.6	C1			
GS/KS160		1			64	2.5	2.6	C2	AS1901		
					64	4	2.6	O			
KUBOTA					66	1.95	2.85	C1			
2D66		1			66	1.5	2.85	C2	AS1902		
					66	3.5	2.4	O			
KUBOTA					68	2.5	2.8	C1			
KND3					68	2.5	2.8	C2			
		1			68	2.5	2.8	C3	AS1903		
					68	4	2.8	O1			
					68	4	2.8	O2			
KUBOTA					69	2.5	2.75	C1			
KS200		1			69	2.5	2.8	C2	AS1904		
					69	3.9	2.95	S/R			
KUBOTA					69	1.5	2.9	C1			
GS200		1			69	1.5	2.9	C2	AS1905		
					69	4	2.8	S/R			
KUBOTA					72	2		C1			
RD45		1			72	1.5		C2	AS1906		
					72	4		O			
KUBOTA					73	2	3.2	C1			
GS/KS300		1			73	3	3.2	C2	AS1907		
					73	3.9	2.95	S/R			
KUBOTA					73	2.5	3.3	C1			
NM-65		1			73	2.5	3.3	C2			
					73	2.5	3.3	C3	AS1908		
					73	4	3.3	O			
KUBOTA					75	1.95	3.3	C1			
50445		1			75	1.5	3.3	C2	AS1909		
					75	4	2.5	O			
KUBOTA					75	2.5	3.1	C1			
ER40/GA120		1			75	2.5	3.1	C2			
					75	2.5	3.1	C3	AS1910		
					75	4	3.1	O1			
					75	4	3.1	O2			
KUBOTA					75	2.50	3.1	C1			
ER50/KND40		1			75	2.50	3.1	C2			
					75	2.5	3.1	C2			
					75	4	3.1	C3	AS1911		
					75	4	3.1	O1			
					75	4	3.1	O2			
KUBOTA					76	2.4	3.3	C1			
L2000		1			76	2	3.3	C2	AS1912		
					76	5	2.5	O			
KUBOTA					78	2	3.5	C1			
ET-70		1			78	2	3.5	C2	AS1913		
					78	2	3.5	C3			
					78	4	3.5	O			
KUBOTA					??80.00?	2.50	3.50 3.50	C1			
KND5B		1			80.00	2.50	3.50	C2			
					80.00	2.50	3.50	C3	AS1914		
					80.00	4.00	3.5	O1			
					80	4		O2			
KUBOTA					80.00	2.38	3.30	C1			
AVI		1			80.00	2.38	3.30	C2	AS1915		
					80.00	2.38	3.30	C3			
					80	4.74	3.2	O			

          										
AGRICULTURE										
KUBOTA					82.00	2.00	3.40	C1		
ER50					82.00	2.00	3.40	C2		
	1				82.00	2.00	3.40	C3	AS1916	
					82.00	4.00	3.40	O1		
					82	4	3.4	O2		
KUBOTA					84.00	2.00	3.50	C1		
ET-80TC					84.00	2.00	3.50	C2		
	1				84.00	2.00	3.50	C3	AS1917	
					84	4.5	3.5	O		
KUBOTA					85.00	3.00	3.50	C1		
KND-5					85.00	3.00	3.50	C2		
	1				85.00	3.00	3.50	C3	AS1918	
					85.00	4.00	3.50	O1		
					85	4	3.5	O2		
KUBOTA					86.00	2.00	@	C1		
ET95					86.00	2.00	@	C2	AS1919	
	1				86.00	2.00	@	C3		
					86	4.5	@	O		
KUBOTA					87.31	2.38	3.40	C1		
PH-1					87.31	2.38	3.40	C2	AS1920	
	1				87.31	2.38	3.40	C3		
					87.31	4.74	3.4	O		
KUBOTA					90.00	2.50	3.70	C1		
KNDR70					90.00	2.50	3.70	C2		
	1				90.00	2.50	3.70	C3	AS1921	
					90.00	4.00	3.70	O1		
					90	4	3.7	O2		
KUBOTA					90.00	2.5	3.70	C1		
ER65/GA100					90.00	2.50	3.70	C2		
	1				90.00	2.50	3.70	C3	AS1922	
					90.00	4.00	3.70	O1		
					90	4	3.7	O2		
KUBOTA					92.00	2.50	3.90	C1		
ET110					92.00	2.00	3.90	C2	AS1923	
	1				92.00	2.00	3.90	C3		
					92	4.5	3.9	O		
KUBOTA					110.00	2.90	4.30	C1		
VC					110.00	2.90	4.60	C2		
	1				110.00	2.90	4.60	C3	AS1924	
					110.00	5.00	4.60	O1		
					110	5	4.6	O2		
YAMAHA					40.00	1.50	1.9	C1	AS1925	
ET500					40	1.5	1.9	C2		
YAMAHA					45.00	1.50	1.90	C1	AS1926	
ET900					45	1.5	1.9	C2		
YAMAHA					65.00	2.00	2.95	C1		
MF180					65.00	2.00	2.95	C2	AS1927	
	1				65	4	2.8	O		
YAMAHA					66.00	1.50	2.70	C1		
MZ175					66.00	1.50	2.70	C2	AS1928	
	1				66	2.5	2.7	O		
YAMAHA					73.00	2.00	3.20	C1		
MF260					73.00	2.00	3.20	C2	AS1929	
	1				73	4	3.2	O		
YAMAHA					86.00	2.50	3.7	C1		
MF410					86.00	2.50	3.7	C2	AS1930	
	1				86	4	3.4	O		



AGRICULTURE											
YANMAR NT65K	1				65	2.5	2.6	C1	AS1931		
					65	2.5	2.6	C2			
					65	2.5	2.6	C3			
					65	2.5	2.6	C4			
					65	4	2.6	O			
YANMAR F4E	1				70	2.5	2.9	C1	AS1932		
					70	2.5	2.9	C2			
					70	2.5	2.9	C3			
					70	4	2.9	O1			
					70	4	2.9	O2			
YANMAR NT70K	1				70	2.5	2.8	C1	AS1933		
					70	2.5	2.8	C2			
					70	2.5	2.8	C3			
					70	2.5	2.8	C4			
					70	4	2.8	O			
YANMAR TS50	1				70	2	3.1	C1	AS1934		
					70	2	3.1	C2			
					70	2	3.1	C3			
					70	4	3.1	O			
YANMAR	1				72	2	3.2	C1	AS1935		
					72	2	3.2	C2			
					72	4	2.7	O			
YANMAR TS60	1				75	2	3.3	C1	AS1936		
					75	2	3.3	C2			
					75	2	3.3	C3			
					75	4	3.3	O			
YANMAR NT75	1				75	2.5	3.1	C1	AS1937		
					75	2.5	3.1	C2			
					75	2.5	3.1	C3			
					75	2.5	3.1	C4			
					75	4	3.1	O			
YANMAR F5E	1				75	2.5	3.1	C1	AS1938		
					75	2.5	3.1	C2			
					75	2.5	3.1	C3			
					75	4	3.1	O1			
					75	4	3.1	O2			
YANMAR 1S7	1				75	2.85	3.3	C1	AS1939		
					75	2.5	3.3	C2			
					75	4	2.5	O			
YANMAR TH4/NS50	1				75	2	3.3	C1	AS1940		
					75	2	3.3	C2			
					75	2	3.3	C3			
					75	4	3.3	O			
YANMAR ET70	1				78	2	3.4	C1	AS1941		
					78	2	3.4	C2			
					78	2	3.4	C3			
					78	4	3.4	O			
YANMAR NM75	1				78	2.5	3.5	C1	AS1942		
					78	2.5	3.5	C2			
					78	2.5	3.5	C3			
					78	4	3.5	O			
YANMAR NK4	1				80	2.5	3	C1	AS1943		
					80	2.5	3	C2			
					80	2.5	3	C3			
					80	2.5	3	C4			
					80	4	3.2	O			
YANMAR F6E	1				80	2.5	3.3	C1	AS1944		
					80	2.5	3.3	C2			
					80	2.5	3.3	C3			
					80	4	3.3	O			



          										
AGRICULTURE										
YANMAR NS65 (TS70/TS80)		1			80	2.5	3.5	C1	AS1945	
					80	2.5	3.5	C2		
					80	2.5	3.5	C3		
					80	4	3.5	O		
YANMAR RK70		1			80	2	3.5	C1	AS1946	
					80	2	3.5	C2		
					80	2	3.5	C3		
					80	4	3.5	O		
YANMAR TH5		1			80	2.5	3.45	C1	AS1947	
					80	2.5	3.45	C2		
					80	2.5	3.45	C3		
					80	4	3.45	O		
YANMAR TF75		1			80	2.5	3.3	C1	AS1948	
					80	2.5	3.5	C2		
					80	2.5	3.5	C3		
					80	4	3.5	O		
YANMAR 1S11		1			84	2.9	3.6	C1	AS1949	
					84	2.5	3.6	C2		
					84	4	2.8	O		
					84	2	3.6	C1		
YANMAR ET80		1			84	2	3.6	C2	AS1950	
					84	2	3.6	C3		
					84	4.5	3.6	O		
					84	2.5	3.6	C1		
YANMAR YM330		1			84	2.5	3.7	C2	AS1951	
					84	2.5	3.7	C3		
					84	4	2.7	O		
					85	2.5	3.5	C1		
YANMAR NT85		1			85	2.5	3.5	C2	AS1952	
					85	2.5	3.5	C3		
					85	2.5	3.5	C4		
					85	4	3.5	O		
YANMAR F7		1			85	2.5	3.5	C1	AS1953	
					85	2.5	3.5	C2		
					85	2.5	3.5	C3		
					85	4	3.5	O		
YANMAR 2S		1			85	3.5	3.5	C1	AS1954	
					85	2.5	3.5	C2		
					85	2.5	3.5	C3		
					85	4	3.7	O1		
YANMAR NS90(TS105)		1			85	4	3.7	O2	AS1955	
					85	2.5	3.7	C1		
					85	2.5	3.7	C2		
					85	2.5	3.7	C3		
YANMAR TF85		1			85	4	3.7	O	AS1956	
					85	2.5	3.5	C1		
					85	2.5	3.7	C2		
					85	2.5	3.65	C3		
YANMAR TH7		1			85	4	3.7	O	AS1957	
					85	2.5	3.6	C1		
					85	2.5	3.6	C2		
					85	2.5	3.6	C3		
YANMAR ET90/95		1			85	4	3.6	O	AS1958	
					86	2.5	3.7	C1		
					86	2	3.7	C2		
					86	2	3.7	C3		
YANMAR ER95		1			86	4.5	3.7	O	AS1959	
					86	2.5	3.8	C1		
					86	2	3.8	C2		
					86	2	3.8	C3		
					86	4.5	3.8	O		

          											
AGRICULTURE											
YANMAR TF105		1			88	2.5	3.8	C1	AS1960		
					88	2.5	3.8	C2			
					88	2.5	3.8	C3			
					88	4	3.8	O			
YANMAR F8		1			90	2.5	3.7	C1	AS1961		
					90	2.5	3.7	C2			
					90	2.5	3.7	C3			
					90	4.5	3.7	O			
YANMAR 3M-15		1			91.5	3.5	3.8	C1	AS1962		
					91.5	2.5	3.8	C2			
					91.5	2.5	3.8	C3			
					91.5	4.5	3.8	O1			
YANMAR TS130		1			91.5	4.5	3.8	O2			
					92	2.5	3.9	C1			
					92	2.5	3.9	C2			
					92	2.5	3.9	C3			
YANMAR TF115		1			92	4	3.9	O	AS1964		
					92	2.5	3.95	C1			
					92	2.5	4	C2			
					92	2.5	4	C3			
YANMAR TH8		1			92	4	4	O			
					92	2.5	4	C1			
					92	2.5	4	C2			
					92	2.5	4	C3			
YANMAR NT95		1			92	4	4	O	AS1965		
					92	2.5	4	C1			
					92	2.5	4	C2			
					92	2.5	4	C3			
YANMAR 2T		1			92	4	4	O			
					95	2.5	4	C1			
					95	2.5	3.6	C2			
					95	2.5	3.6	C3			
YANMAR TS155		1			95	2.5	3.6	C3	AS1966		
					95	4.5	3.6	O1			
					95	4.5	3.6	O2			
					95	3.5	3.8	C1			
YANMAR NS13		1			95	2.5	3.6	C2			
					95	2.5	3.6	C3			
					95	2.5	3.6	C3			
					95	4.5	3.6	O2			
YANMAR SS4		1			95	2.5	4	C1	AS1967		
					95	2.5	4	C2			
					95	2.5	4	C3			
					95	4.5	4	O			
YANMAR F10		1			95	2.5	4.1	C1	AS1968		
					95	2.5	4	C2			
					95	2.5	4	C3			
					95	4.5	4	O			
YANMAR B-10		1			95	2.5	4.1	C1	AS1969		
					95	2.5	4.1	C2			
					95	2.5	4.1	C3			
					95	4.5	4.1	O			
YANMAR NK6		1			95	4	3.75	C1	AS1970		
					95	4	3.75	C2			
					95	4	3.75	C3			
					95	4	3.75	C4			
YANMAR B-10		1			95	4	3.75	O			
					100	2.6	4.3	C1			
					100	2.5	4	C2			
					100	2.5	4	C3			
YANMAR NK6		1			100	2.5	4	C3	AS1971		
					100	2.5	4.3	C1			
					100	2.15	4.25	C2			
					100	2.15	4.25	C3			
YANMAR NK6		1			100	4.5	2.95	O1	AS1972		
					100	4.5	2.95	O2			
					100	4.5	4.15	O2			
					100	3	3.5	C1			
YANMAR NK6		1			100	3	3.5	C2	AS1973		
					100	3	3.5	C3			
					100	5	4	O1			
					100	5	4	O2			

          									
AGRICULTURE									
YANMAR TS180C	1				102	2.5	4.3	C1	AS1974
					102	2.5	4.3	C2	
					102	2.5	4.3	C3	
					102	4.5	4.3	O	
YANMAR MS18	1				102	2.5	4.3	C1	AS1975
					102	2.5	4.3	C2	
					102	2.5	4.3	C3	
					102	4.5	4.3	O	
YANMAR SS6	1				105	5	4	C1	AS1976
					105	5	4	C2	
					105	5	4	C3	
					105	5	4	C4	
YANMAR LBB	1				105	5	4	O	
					105	4	4	C1	
					105	4	4	C2	
					105	4	4	C3	
YANMAR 1SM	1				105	5	4	O	AS1978
					105	3.5	4.5	C1	
					105	2.5	4.5	C2	
					105	2.5	4.5	C3	
YANMAR SM	1				105	4.5	4.5	O1	AS1979
					105	4.5	4.5	O2	
					105	3.5	4.5	C1	
					105	2.5	4.5	C2	
YANMAR TS220	1				105	2.5	4.5	C3	AS1980
					105	4.5	3.4	O1	
					105	4.5	4.5	O2	
					110	2.5	4.6	C1	
YANMAR NT110	1				110	2.5	4.6	C2	AS1981
					110	2.5	4.6	C3	
					110	4.5	4.6	O	
					110	2.5	4.3	C1	
YANMAR KS8	1				110	2.5	4.3	C2	AS1982
					110	2.5	4.3	C3	
					110	2.5	4.3	C4	
					110	5	4.3	O	
YANMAR 3ES	1				110	3.5	4	C1	AS1983
					110	3.5	4	C2	
					110	3.5	4	C3	
					110	3.5	4	C4	
YANMAR 3ES(II)	1				110	5	4	O	AS1984
					115	3.5	4.8	C1	
					115	3	4.8	C2	
					115	3	4.8	C3	
YANMAR LE	1				115	5	4.5	O1	AS1985
					115	5	4.5	O2	
					120	3.5	4.5	C1	
					120	3.5	4.5	C2	
YANMAR 2LE	1				120	3.5	4.5	C3	AS1986
					120	5.5	4.5	O1	
					120	5.5	4.5	O2	
					120	3.5	4.5	C1	
YANMAR 3ESD	1				120	3.5	4.5	C2	AS1987
					120	3.5	4.5	C3	
					120	3.5	4.5	C4	
					120	3.5	4.5	O	
YANMAR N22Y	1				120	3.5	5	C1	AS1988
					120	3	5	C2	
					120	3	5	C3	
					120	5	5	O1	
					120	5	5	O2	
					140	4	4.8	C1	
					140	3	2.15	C2	
					140	3	5.2	C3	
					140	6	4.8	O	

										
AJAX										
M, WL					127.00	6.35	4.85		AS1101	1 Cyl. STD
						6.35	4.88			
						6.35	4.88			
						6.35	4.88			
						6.35	4.88			
C-42, E-42				Late Piston	215.90	4.00	8.03		AS1102	1 Cyl. STD
						4.00	8.05			
						4.00	8.05			
						4.00	8.05			
ALFA-ROMEO										
101	1290		1955-70	1.3L Giulietta Spider, Sprint, Ti	74.00	1.50	3.20		AS1201	4 Cyl. STD
						1.75	3.23		AS1201010	1.00
						4.00	3.81			
									AS1202	STD
									AS1202010	1.00
AR61101	1597		1963-92	1.6L with replacement piston w/3.5mm oil ring	78.00	1.50	3.35		AS1203	4 Cyl. STD
						1.75	3.38			
						3.50	3.43			
105, AR00526, AR00536, AR01600	1567		1962-90	Giulia GTA, Giulia GTV, Giulia Spider Duetto, Giulia Sprint Spcl, Giulia TZ, Ti, Ti Super	78.00	1.50	3.35		AS1204	4 Cyl. STD
						1.75	3.38			
						4.00	4.11			
301	1189		1972-79	1.2L Alfasud, Ti	80.00	1.50	3.18		AS1205	4 Cyl. STD
						1.75	3.71			
						3.50	3.81			
AR 31000, AR30500, AR 30140, AR 30102S, AR 30102	1186	4	1972-86	1.2L...Alfasud, TI	80.00	1.50	3.18		AS1206	4 Cyl. STD
AR 30160, AR 30180	1287		1979-84	1.3L ENG.		1.75	3.71		AS1206010	0.50
AR 33501, AR 31010, AR 30755, AR 30753, AR 30732, AR 30587, AR 30586, AR 30502, AR 30168, AR 30164	1351		1977-96	1.3L/1.4L ENG.		4.00	3.81		AS1206020	1.00
105, 105.41	1779		1967-77	1.8L 1750GT, Alfetta, Spider, Veloce						
									AS1207	STD
									AS1207010	0.50
									AS1207020	1.00
									AS1207030	1.50
AR 37101, 937 A2.000	1910	4	2000-10	1.9L JTD Turbo Diesel JTD	82.00	2.50	3.56		AS1208	1 Cyl. STD
839.A600, AR 36202, 841 C.000	2387	5	2000-08	2.4L JTD Turbo Diesel		2.00	3.58			
						2.00	2.87			
AR 32302	1910	4	1998-01	1.9L Turbo Diesel JTD	82.00	3.00	3.56		AS1208	1 Cyl. STD
AR 34202, AR 32501	2387	5	1998-00	2.4L JTD Turbo Diesel		2.00	3.58			
						3.00	3.68			
AR 37101, 937 A2.000	1910	4	2000-10	1.9L JTD Turbo Diesel	82.00	2.00	3.56		AS1209	1 Cyl. STD
AR 36202, 841 C.000, 839 A6.000	2387	5	2001-08	2.4L JTD Turbo Diesel		2.00	3.58			
						2.00	2.87			

										
ALFA-ROMEO										
192 A5.000, 192 B1.000, 937 A4.000, 937 A5.000, 937 A6.000, 939 A2.000	1910	4	2002-12	1.9L JTD, JTD 16V, JTDM 16V JTDM 16V Q4, Turbo Diesel	82.00	2.00	3.53	AS1210	1 Cyl.	STD
939 A3.000 841 N.000, 841 M.000, 841 H.000, 841 G.000	2387	5	2002-12	2.4L JTD, JTDM, JTDM 20V, Brera Spider		2.00	3.68			
						2.00	2.87			
301	1490	4	1975-85	1.5L Alfesud, Sprint & Super	84.00	1.50	3.20	AS1211	4 Cyl.	STD
						1.75	3.45			
						4.00	3.94			
								AS1212		STD
115	1962	4	1972-82	2.0L Alfetta, Alfetta GTV, Berlina, GTV, Spider	84.00	1.50	3.43	AS1213	4 Cyl.	STD
						1.75	3.45			
						4.50	4.24			
								AS1214		STD
	1962	4	1987-On	2.0L Twin Spark, Motronic	84.00	1.50	3.58	AS1215	4 Cyl.	STD
						1.75	3.73	AS1215010		0.50
						3.50	3.43			
AR67303	2492	6	1992-97	2.5L 155 V-6	88.00	1.50	3.61	AS1216	6 Cyl.	STD
						1.75	4.17			
						4.00	4.24			
VM82A, VM96A	1779		1986-90	1.8L TD Turbo Diesel 33	92.00	2.50	4.01	AS1217	1 Cyl.	STD
VM14HT, VM81A	2393	4	1983-92	2.4L TD Turbo Diesel Alfetta, 75, 90		2.00	4.04			
VM07B, VM08B, VM31B, VM32B, VM84A	2500	4	1987-99	2.5L TD Turbo Diesel 155, 164		4.00	4.24			
AR 06120, AR 06124, AR06410, AR 61503, AR 64301	2959	6	1987-92	3.0L V-6 75, 164, Milano	93.00	1.50	3.48	AS1218	6 Cyl.	STD
						1.50	3.78	AS1218010		0.50
						3.50	3.68	AS1218020		0.75
								AS1218030		1.00
								AS1219		STD
								AS1219010		0.50
								AS1219020		0.75
								AS1219030		1.00
ALLIS CHALMERS										
N62		4	1947-61	Continental Engine	60.33	2.38	2.79	AS1301	4 Cyl.	STD
						2.38	2.82			
						4.75	1.27			
								AS1302		STD
								As1302010		0.75
B, IB, PWR, B15, FC, FT20, FT25, FTP20, FTP30		4		Waukesha Engine	82.55	3.18	3.89	AS1303	4 Cyl.	STD
						3.18	3.78	AS1303010		0.50
						4.75	1.27	AS1303020		1.50
								AS1304		STD



										
ALLIS CHALMERS										
B, IB		4		4 Ring Piston	82.55	3.18	3.89	AS1305	4 Cyl.	STD
						3.18	3.91	AS1305010		0.50
						3.18	3.78	AS1305020		1.50
						4.75	1.27			
								AS1306		STD
138,		4		B, B15, B125, C, CA, D10, D12, IB, RC, Combine 60, G138	85.73	3.18	4.04	AS1307	4 Cyl.	STD
						3.18	3.89			
						3.18	3.89			
						4.75	1.27			
B, IB		4		Permite Sleeve Kit #CSA273	87.31	3.18	4.11	AS1308	4 Cyl.	STD
G153						3.18	3.94	AS1308010		1.50
						3.18	3.94			
						4.75	4.50			
								AS1309		STD
WD45		6		Diesel	87.31	3.18	4.11	AS1310	6 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	2.54			
						4.75	4.14			
B, C, CA, R & 138		4		Allied Kit #WSA494	87.31	2.38	3.61	AS1311	4 Cyl.	STD
				Ertel Sleeve Kit #SA201		2.38	4.14			
				Genuine Parts Sleeve Kit #S159		2.38	4.14			
				McQuay Norris Sleeve Kit #SA197		4.75	1.27			
				Perfect Circle Kit #WSA494						
								AS1312		STD
WD45		6	1955-57	White Machine Sleeve Kit #G258CH	88.90	3.18	3.96	AS1313	6 Cyl.	STD
						3.18	3.66			
						3.18	3.66			
						4.75	1.27			
						4.75	3.99			
G149		4		D 10, D12 SERIES II, III S/N 3501-ON	88.90	3.18	3.96	AS1314	4 Cyl.	STD
D14		4		D14, D15G, H3, I40, I400, 1400		3.18	3.66			
				BALERS 10, 66,90 COMBINE 72		3.18	3.66			
						4.75	1.27			
G246, G262	1962-65	6		D19, TL14	90.49	3.18	4.01	AS1315	6 Cyl.	STD
				Balers/Combines C, CB, CH, CR, CT, C11, F, G		3.18	4.04			
						3.18	4.04			
						4.75	4.62			

										
ALLIS CHALMERS										
D262, D262T		6		Diesel D17 SERIES III, IV, D19	90.49	2.38	4.27	AS1316	6 Cyl.	STD
D262		6		Diesel Balers/Combines A, B, R S/N 119460-on		2.38	3.68			
D262				Diesel DD Graders, TL10D, 12D Loaders		2.38	3.68			
						4.75	2.49			
						4.75	4.04			
D262		6		Diesel D17D, D17D Series IV	90.49	3.18	4.01	AS1317	6 Cyl.	STD
DA262D				Diesel Balers & Combines A, B, R To S/N 119460		3.18	4.04			
DA262				Diesel DD Grader; TL10D 12D Loaders		3.18	4.04			
						4.75	2.49			
						4.75	4.04			
G160		4		Gas or LPG Eng's. D15 Series II S/N 9001-on	92.08	2.38	4.06	AS1318	4 Cyl.	STD
				H3 Crawler, I60G, I600G, I6160		2.38	4.09			
						2.38	4.09			
						4.75	1.27			
								AS1319		STD
G2500		6		One-Eighty	95.25	2.38	4.47	AS1320	6 Cyl.	STD
						2.38	4.50			
						2.38	4.50			
						4.75	4.27			
4.236		4		Perkins Diesel One-Seventy	98.43	2.38	3.96	AS1321	4 Cyl.	STD
						2.38	3.99			
						2.38	3.99			
						6.35	3.66			
						6.35	3.48			
G2800, G2800,		6		Gas or LPG One-Ninety XT Dumpers, Graders, Loaders TL545 GAS	98.43	2.38	4.62	AS1322	6 Cyl.	STD
						2.38	3.99			
						2.38	3.99			
						4.75	4.45			
D2900				DIESEL				AS1323		STD
D2200		4		Diesel Allis Engine	98.48	2.38	3.96	AS1324	4 Cyl.	STD
						2.38	3.99			
						2.38	3.99			
						4.75	5.56			
D2800		6		DIESEL ONE-EIGHTY, ONE NINETY	98.48	2.38	3.96	AS1325	6 Cyl.	STD
D2900		6		DIESEL ONE-NINETY XT Turbo		2.38	3.99			
301		6		7000 Turbo		2.38	3.99			
D2900		6		Diesel TL545, 545D, 545H SLEEVED ENGINES		4.75	5.56			
G226, W25, W45, W201, W226 GAS or LPG		4		One-Seventy, D17 III, IV Piston #226347	101.60	3.18	4.39	AS1326	4 Cyl.	STD
		4		Balers/Combines SUPER100		3.18	4.11			
		4		TL10, 11, 12 Loader /D, DG, Grader		3.18	4.11			
		4				4.75	4.88			

										
ALLIS CHALMERS										
W		4		White Machine Piston #A1070	104.78	2.38	4.93	AS1327	4 Cyl.	STD
				sleeved engine		3.18	4.52			
						3.18	4.52			
						4.75	5.00			
W		4		Genuine Sleeve Kit #S155, 156, 157; SA377, 379	104.78	2.38	4.93	AS1328	4 Cyl.	STD
						2.38	4.52			
						2.38	4.52			
						6.35	5.00			
W		4		Allied Sleeve Kit #WSA263	104.78	2.38	4.93	AS1329	4 Cyl.	STD
				McQuay Norris Kit #SA175, 208		2.38	4.95			
				M & W Sleeve Kit #SP1, 6, 7, 7P, SP1-5		3.18	4.52			
				Sealed Power Sleeve Kit #SL1728, 1729		6.35	5.00			
				Perfect Circle Sleeve Kit #WSA263						
				Thompson Kit SA204						
AMERICAN MOTORS-ALSO SEE JEEP-EAGLE										
85 C.I.D.		4	1983-87	Alliance	76.00	1.75	3.45	AS1401	4 Cyl.	STD
						2.00	3.48	AS1401010		0.25
						4.00	3.94	AS1401020		0.50
								AS1401030		0.75
								AS1401040		1.00
								AS1402		STD
								AS1402010		0.25
								AS1402020		0.50
								AS1402030		1.00
196 C.I.D.		6	1957-63	3.2L 5710, 5810, Rambler 5910, American 5800, 5902, 5904-1, 5906, 5906-1, L-Head & OHV	79.38	2.38	3.76	AS1403	6 Cyl.	STD
						2.38	3.78	AS1403010		0.50
						4.75	3.94	AS1403020		0.75
								AS1403030		1.00
								AS1403040		1.50
								AS1404		STD
								AS1404010		0.50
								AS1404020		0.75
								AS1404030		1.00
196 C.I.D.		6	1963-65	220, 330, 440, 440H	79.38	2.00	3.76	AS1405	6 Cyl.	STD
						2.00	3.78	AS1405010		1.00
						4.75	1.27	AS1405020		1.50
105 C.I.D.	1721	4	1986-88	1.7L Alliance	81.00	1.75	3.58	AS1406	4 Cyl.	STD
						2.00	3.61	AS1406010		0.50
						3.00	3.18	AS1406020		0.75
								AS1406030		1.00
								AS1406040		1.50
								AS1407		STD
								AS1407010		0.25
								AS1407020		0.50
								AS1407030		0.75
								AS1407040		1.00
121 C.I.D.	2000	4	1977-79	2.0Litre	86.50	2.00	3.89	AS1408	4 Cyl.	STD
						2.50	3.91	AS1408010		0.50
						5.00	4.11	AS1408020		1.00
								AS1408030		1.50
								AS1409		STD
								AS1409010		0.25
								AS1409020		0.50
								AS1409030		1.00
								AS1409040		1.50



AMERICAN MOTORS-ALSO SEE JEEP-EAGLE										
135 C.I.D.	2200	4	1988-89	2.2Litre	88.00	1.75	3.94	AS1410	4 Cyl.	STD
						2.00	3.96	AS1410010		0.25
						4.00	1.27	AS1410020		0.50
								AS1410030		0.75
								AS1410040		1.00
250 C.I.D.		8	1956-62	5720, Rambler Rebel 5820, 5920	88.90	2.00	4.19	AS1411	8 Cyl.	STD
						2.00	4.22	AS1411010		0.75
						4.75	1.27	AS1411020		1.00
								AS1411030		1.50
								AS1412		STD
								AS1412010		0.25
								AS1412020		0.50
								AS1412030		0.75
								AS1412040		1.00
								AS1413		STD
								AS1413010		0.75
								AS1413020		1.00
287 C.I.D.		8	1963-66	4.7Litre	95.25	2.00	4.47	AS1414	8 Cyl.	STD
290 C.I.D.		8	1966-69	4.8Litre		2.00	4.50	AS1414010		0.25
304 C.I.D.		8	1970-79	5.0Litre		4.75	1.27	AS1414020		0.50
								AS1414030		0.75
								AS1414040		1.00
								AS1414050		1.50
								AS1414060		2.00
								AS1414070		2.50
								AS1415		STD
								AS1415010		0.25
								AS1415020		0.50
								AS1415030		0.75
								AS1415040		1.00
								AS1415050		1.50
								AS1416		STD
								AS1416010		0.25
								AS1416020		0.50
								AS1416030		0.75
								AS1416040		1.00
								AS1416050		1.50
								AS1416060		2.00
								AS1416070		2.50
199 C.I.D.		6	1965-70	3.3Litre	95.25	2.00	4.47	AS1417	6 Cyl.	STD
232 C.I.D.		6	1964-79	3.8Litre		2.00	4.50	AS1417010		0.25
258 C.I.D.		6	1971-85	4.2Litre		4.75	1.27	AS1417020		0.50
								AS1417030		0.75
								AS1417040		1.00
								AS1417050		1.50
								AS1418		STD
								AS1418010		0.25
								AS1418020		0.50
								AS1418030		0.75
								AS1418040		1.00
								AS1418050		1.50
								AS1419		STD
								AS1419010		0.25
								AS1419020		0.50
								AS1419030		0.75
								AS1419040		1.00
								AS1419050		1.50

										
AMERICAN MOTORS-ALSO SEE JEEP-EAGLE										
150C.I.D.	4	1983-92	2.5Litre	98.43	2.00	4.62		AS1420	4 Cyl.	STD
					2.00	4.65		AS1420010		0.25
					4.75	4.88		AS1420020		0.50
								AS1420030		0.75
								AS1420040		1.00
								AS1420050		1.50
								AS1421		STD
								AS1421010		0.25
								AS1421020		0.50
								AS1421030		0.75
								AS1421040		1.00
								AS1421050		1.50
								AS1422		STD
								AS1422010		0.25
								AS1422020		0.50
								AS1422030		0.75
								AS1422040		1.00
								AS1422050		1.50
								AS1422060		2.00
242 C.I.D.	6	1986-89		98.43	2.00	4.62		AS1423	6 Cyl.	STD
246 C.I.D.	6	1986-92	4.0Litre		2.00	4.65		AS1423010		0.25
					4.75	4.88		AS1423020		0.50
								AS1423030		0.75
								AS1423040		1.00
								AS1423050		1.50
								AS1423060		2.00
								AS1424		STD
								AS1424010		0.25
								AS1424020		0.50
								AS1424030		0.75
								AS1424040		1.00
								AS1424050		1.50
								AS1424060		2.00
								AS1425		STD
								AS1425010		0.25
								AS1425020		0.50
								AS1425030		0.75
								AS1425040		1.00
								AS1425050		1.50
								AS1425060		2.00
327 C.I.D.	8	1957-66	5.4L Rebel 5730, Rambler Ambassador	101.60	2.00	4.78		AS1426	8 Cyl.	STD
					2.00	4.80		AS1426010		0.25
					4.75	4.88		AS1426020		0.50
								AS1426030		0.75
								AS1426040		1.00
								AS1426050		1.50
								AS1426060		1.75
								AS1426070		2.00
								AS1426080		2.50
								AS1427		STD
								AS1427010		0.25
								AS1427020		0.50
								AS1427030		0.75
								AS1427040		1.00
								AS1427050		1.50
								AS1427060		1.75
								AS1427070		2.00
								AS1428		STD
								AS1428010		0.25
								AS1428020		2.50
								AS1428030		0.50
								AS1428040		0.75
								AS1428050		1.00
								AS1428060		0.13
								AS1428070		1.50
								AS1428080		1.75
								AS1428090		2.00

										
CG	CYL/ENG								CYL/SET	MM
AMERICAN MOTORS-ALSO SEE JEEP-EAGLE										
151 C.I.D.	4	1982-88	2.5L Deep Oil Ring Groove	101.60	1.60	4.78			AS1429	4 Cyl. STD
					2.00	4.80			AS1429010	0.50
					4.75	4.88			AS1429020	0.75
									AS1429030	1.00
									AS1429040	1.50
									AS1430	STD
									AS1430010	0.50
									AS1430020	0.75
									AS1430030	1.00
									AS1430040	1.50
									AS1431	STD
									AS1431010	0.50
									AS1431020	0.75
									AS1431030	1.00
									AS1431040	1.50
151 C.I.D.	4	1980	2.5L Deep Oil Ring Groove	101.60	2.00	4.78			AS1432	4 Cyl. STD
					2.00	4.80			AS1432010	0.50
					4.75	4.88			AS1432020	0.75
									AS1432030	1.00
									AS1432040	1.50
									AS1433	STD
									AS1433010	0.50
									AS1433020	0.75
									AS1433030	1.00
									AS1433040	1.50
									AS1434	STD
									AS1434010	0.50
									AS1434020	0.75
									AS1434030	1.00
									AS1434040	1.50
									AS1434050	1.63
									AS1435	STD
									AS1435010	0.50
									AS1435020	0.75
									AS1435030	1.00
									AS1435040	1.50
									AS1435050	1.63
151 C.I.D.	4	1980-81	2.5L Shallow Oil Ring Groove	101.60	2.00	4.78			AS1436	4 Cyl. STD
					2.00	4.80			AS1436010	0.50
					4.75	1.27			AS1436020	0.75
									AS1436030	1.00
									AS1437	STD
									AS1437010	0.50
									AS1437020	0.75
									AS1437030	1.00
									AS1437040	1.50
									AS1438	STD
									AS1438010	0.50
									AS1438020	0.75
									AS1438030	1.00
151 C.I.D.	4	1982-88	2.5L Shallow Oil Ring Groove	101.60	1.60	4.78			AS1439	4 Cyl. STD
					2.00	4.80			AS1439010	0.50
					4.75	1.27			AS1439020	0.75
									AS1439030	1.00
									AS1439040	1.50
									AS1440	STD
									AS1440010	0.50
									AS1440020	0.75
									AS1440030	1.00
									AS1440040	1.50
									AS1441	STD
									AS1441010	0.50
									AS1441020	0.75
									AS1441030	1.00
									AS1441040	1.50

											
CC	CYL/ENG							REF LEGEND PAGES 8-11	Part#	CYL/SET	MIN
AMERICAN MOTORS-ALSO SEE JEEP-EAGLE											
150C.I.D.	4	1983-92	2.5Litre	98.43	2.00	4.62			AS1442	4 Cyl.	STD
					2.00	4.65			AS1442010		0.25
					4.75	4.88			AS1442020		0.50
									AS1442030		0.75
									AS1442040		1.00
									AS1442050		1.50
									AS1443		STD
									AS1443010		0.25
									AS1443020		0.50
									AS1443030		0.75
									AS1443040		1.00
									AS1443050		1.50
									AS1444		STD
									AS1444010		0.25
									AS1444020		0.50
									AS1444030		0.75
									AS1444040		1.00
									AS1444050		1.50
									AS1444060		2.00
242 C.I.D.	6	1986-89		98.43	2.00	4.62			AS1445	6 Cyl.	STD
246 C.I.D.	6	1986-92	4.0Litre		2.00	4.65			AS1445010		0.25
					4.75	4.88			AS1445020		0.50
									AS1445030		0.75
									AS1445040		1.00
									AS1445050		1.50
									AS1445060		2.00
									AS1446		STD
									AS1446010		0.25
									AS1446020		0.50
									AS1446030		0.75
									AS1446040		1.00
									AS1446050		1.50
									AS1446060		2.00
									AS1447		STD
									AS1447010		0.25
									AS1447020		0.50
									AS1447030		0.75
									AS1447040		1.00
									AS1447050		1.50
									AS1447060		2.00
327 C.I.D.	8	1957-66	5.4L Rebel 5730, Rambler Ambassador	101.60	2.00	4.78			AS1448	8 Cyl.	STD
					2.00	4.80			AS1448010		0.25
					4.75	4.88			AS1448020		0.50
									AS1448030		0.75
									AS1448040		1.00
									AS1448050		1.50
									AS1448060		1.75
									AS1448070		2.00
									AS1448080		2.50
									AS1449		STD
									AS1449010		0.25
									AS1449020		0.50
									AS1449030		0.75
									AS1449040		1.00
									AS1449050		1.50
									AS1449060		1.75
									AS1449070		2.00
									AS1450		STD
									AS1450010		0.25
									AS1450020		2.50
									AS1450030		0.50
									AS1450040		0.75
									AS1450050		1.00
									AS1450060		0.13
									AS1450070		1.50
									AS1450080		1.75
									AS1450090		2.00

											
AMERICAN MOTORS-ALSO SEE JEEP-EAGLE											
151 C.I.D.	4	1982-88	2.5L Deep Oil Ring Groove	101.60	1.60	4.78			AS1451	4 Cyl.	STD
					2.00	4.80			AS1451010		0.50
					4.75	4.88			AS1451020		0.75
									AS1451030		1.00
									AS1451040		1.50
									AS1452		STD
									AS1452010		0.50
									AS1452020		0.75
									AS1452030		1.00
									AS1452040		1.50
									AS1453		STD
									AS1453010		0.50
									AS1453020		0.75
									AS1453030		1.00
									AS1453040		1.50
151 C.I.D.	4	1980	2.5L Deep Oil Ring Groove	101.60	2.00	4.78			AS1454	4 Cyl.	STD
					2.00	4.80			AS1454010		0.50
					4.75	4.88			AS1454020		0.75
									AS1454030		1.00
									AS1454040		1.50
									AS1455		STD
									AS1455010		0.50
									AS1455020		0.75
									AS1455030		1.00
									AS1455040		1.50
									AS1456		STD
									AS1456010		0.50
									AS1456020		0.75
									AS1456030		1.00
									AS1456040		1.50
									AS1456050		1.63
									AS1457		STD
									AS1457010		0.50
									AS1457020		0.75
									AS1457030		1.00
									AS1457040		1.50
									AS1457050		1.63
151 C.I.D.	4	1980-81	2.5L Shallow Oil Ring Groove	101.60	2.00	4.78			AS1458	4 Cyl.	STD
					2.00	4.80			AS1458010		0.50
					4.75	1.27			AS1458020		0.75
									AS1458030		1.00
									AS1459		STD
									AS1459010		0.50
									AS1459020		0.75
									AS1459030		1.00
									AS1459040		1.50
									AS1460		STD
									2M5630020		0.50
									2M5630030		0.75
									2M5630040		1.00
151 C.I.D.	4	1982-88	2.5L Shallow Oil Ring Groove	101.60	1.60	4.78			AS1461	4 Cyl.	STD
					2.00	4.80			AS1461010		0.50
					4.75	1.27			AS1461020		0.75
									AS1461030		1.00
									AS1461040		1.50
									AS1462		STD
									AS1462010		0.50
									AS1462020		0.75
									AS1462030		1.00
									AS1462040		1.50
									AS1463		STD
									AS1463010		0.50
									AS1463020		0.75
									AS1463030		1.00
									AS1463040		1.50

											
AMERICAN MOTORS-ALSO SEE JEEP-EAGLE											
343 C.I.D.		8	1967-69	5.6Litre	103.63	2.00	4.88		AS1464	8 Cyl.	STD
360 C.I.D.		8	1970-79	5.9 Litre		2.00	4.90		AS1464010		0.50
						4.75	4.75		AS1464020		0.75
									AS1464030		1.00
									AS1464040		1.50
									AS1465		STD
									AS1466		STD
									AS1466010		0.50
									AS1466020		0.75
									AS1466030		1.00
									AS1466040		1.50
390 C.I.D.		8	1968-70	6.4L Performance Eng.	105.79	1.60	4.95		AS1467	8 Cyl.	STD
401 C.I.D.		8	1971-74	6.6L Performance Eng.		1.60	4.98		AS1467010		0.75
						4.75	5.08		AS1467020		1.13
									AS1467030		1.63
390 C.I.D.		8	1968-70	6.4Litre	105.79	2.00	4.95		AS1468	8 Cyl.	STD
401 C.I.D.		8	1971-76	6.6Litre		2.00	4.98		AS1468010		0.75
						4.75	5.21		AS1468020		1.00
									AS1469		STD
									AS1470		STD
									AS1470010		0.75
ATLAS ROYAL											
12 H.P.			1948-53	OUT BOARD	60.33	2.38	2.59		AS1501	1 Cyl.	STD
						2.38	2.62				
						2.38	2.62				
AUDI											
HB	1093	4	1974-80	1.0L 1000, 50GL, 50LS	69.50	1.75	3.25		AS1601	4 Cyl.	STD
HC						2.50	3.28		AS1601010		0.25
HD						4.00	3.81		AS1601020		0.50
HB	1093	4	1974-80	1.0L 1000, 50GL, 50LS	69.50	1.75	3.25		AS1602	4 Cyl.	STD
HC						2.00	3.28		AS1602010		0.50
HD						4.00	3.81		AS1602020		1.00
									AS1603		STD
									AS1603010		0.25
									AS1603020		0.50
									AS1603030		0.75
									AS1603040		1.00
ZA, ZF	1297	4	1972-79	1.3L 80, 80L, AB, NSU, PS 7500		2.00	3.45		AS1604	4 Cyl.	STD
056						2.50	3.48		AS1604010		0.50
						4.00	3.94		AS1604020		1.00
									AS1605		STD
									AS1605010		0.25
									AS1605020		0.50
									AS1605030		0.75
									AS1605040		1.00
EP	1297	4	1978-88	1.3L 80, 80L	75.00	1.50	2.95		AS1606	4 Cyl.	STD
052						1.75	3.23		AS1606010		0.50
						3.00	3.18		AS1606020		0.75
									AS1606030		1.00
									AS1607		STD
									AS1607010		0.50
									AS1607020		0.75
									AS1607030		1.00



											
AUDI											
1.0Litre 1043cc	1043	4	1987-ON1.0L 80, G40	75.00	1.75	3.45			AS1608	4 Cyl.	STD
					2.00	3.48			AS1608010		0.50
					3.00	3.18			AS1608020		1.00
056	1471	4	1972-80 1.5L Fox, 80GL	76.50	2.00	3.45			AS1609	4 Cyl.	STD
					2.50	3.48			AS1609010		0.50
					4.00	3.94			AS1609020		0.75
									AS1609030		1.00
									AS1610		STD
									AS1610010		0.25
									AS1610020		0.50
									AS1610030		0.75
									AS1610040		1.00
CR, JK, 068	1588	4	1980-91 1.6 L 80 1.6D, 4000D DIESEL	76.50	1.75	3.45			AS1611	4 Cyl.	STD
					2.00	3.48			AS1611010		0.25
					3.00	3.56			AS1611020		0.50
									AS1611030		0.75
									AS1611040		1.00
									AS1612	4 Cyl.	STD
									AS1612010		0.25
									AS1612020		0.50
									AS1612030		0.75
									AS1612040		1.00
CN	1986	5	1978-90 2.0L DIESEL 100	76.50	1.75	3.45			AS1613	5 Cyl.	STD
					2.00	3.48			AS1613010		0.25
					3.00	3.68			AS1613020		0.50
									AS1613030		0.75
									AS1613040		1.00
CTHG	1390	4	2011-on 1.4LA1 TFSI TURBO	76.50	1.20	3.33			AS1614	4 Cyl.	STD
					1.50	3.48			AS1614010		0.50
					2.00	2.92					
CAXA, CAXC, CMSA, CNV1890	1590	4	2006-13 1.4L TFSI TURBO A1, A3	76.50	1.20	3.33			AS1615	4 Cyl.	STD
BLF, BLP	1598	4	2004-08 1.6L FSI A3		1.20	3.48			AS1615010		0.50
					2.00						
									AS1616		STD
									AS1616010		0.25
									AS1616020		0.50
CY, RA, SB	1588		1978-89 1.6L Turbo Diesel	76.50	1.75	3.35			AS1617	1 Cyl.	STD
DE, NC	1986		1978-89 2.0L Turbo Diesel		2.00	3.38					
					3.00	3.68					
BCZ, BDG, BDH, BFC	2496		2000-06 2.5L Turbo Diesel DOHC TDi	78.30	1.75	3.40			AS1618	1 Cyl.	STD
					2.00	3.43					
					3.00	3.68					
49	1588	4	1973-75 1.6L Fox 80GT, 100L	79.50	2.00	3.40			AS1619	4 Cyl.	STD
					2.50	3.43			AS1619010		0.50
					5.00	1.27			AS1619020		1.00
									AS1620		STD
									AS1620010		0.50

											
AUDI											
1457cc	1457	4	1978-80	1.5L	79.50	1.75	3.15		AS1621	4 Cyl.	STD
1588cc	1588	4	1978-80	1.6L Fox 80GL, GLS, 4000-4,		2.00	3.43		AS1621010		0.25
1715cc	1715	4	1981-83	1.7L 4000, 4000S		4.00	3.81		AS1621020		0.50
									AS1621030		0.75
									AS1621040		1.00
									AS1621050		1.50
									AS1622		STD
									AS1622010		0.25
									AS1622020		0.50
									AS1622030		0.75
									AS1622040		1.00
									AS1622050		1.50
									AS1623		STD
									AS1623010		0.25
									AS1623020		0.50
									AS1623030		0.75
									AS1623040		1.00
									AS1623050		1.50
1Y, 1X, AAZ, ADE, AAS, 3D	1896 2370	4 4	1990-94 1990-94	1.9L DIESEL ENGINE 2.4L DIESEL ENGINE	79.50	1.75 2.00 3.00	3.38 3.53 3.68		AS1624	1 Cyl.	STD
1Y, 1Z, AAZ, AFF, AFN, AGR, AHF, AHH, AHU, ALH, ASV, AVG, BKE	1896	4	1989-91	1.9L Diesel	79.50	1.75	3.38		AS1624010		0.25
3D, AAS	2370	4	1989-94	2.4L Diesel, Transporter		2.00 3.00	3.53 3.68		AS1624020		0.50
									AS1624030		2.50
									AS1625	1 Cyl.	STD
									AS1625010		0.25
49	1588	4	1975-80	16L 4000, FOX	79.50	1.75 2.50 5.00	3.40 3.43 4.39		AS1626	4 Cyl.	STD
									AS1626010		0.50
									AS1626020		0.75
									AS1626030		1.00
									AS1627		STD
									AS1627010		0.50
									AS1627020		1.00
35	2144	5	1978-85	2.1L 5+5, 4000, 5000, Coupe	79.50	1.75	3.15		AS1628	5 Cyl.	STD
				Quattro,		2.00 4.00	3.43 3.81		AS1628010		0.50
		4		60, 72, 80 Valiant	80.00	2.00 2.50 5.00	3.18 3.71 1.27		AS1629	4 Cyl.	STD
									AS1630		STD
ABM, ADA, DT, DTA, JU, PP, RN, SA, DR, JN, MG, RU, SF,	1595 1781	4 4	1979-96 1983-92	1.6L 80 1.8L 80, 100, Quattro, Coupe	81.00	1.50 1.75 3.00	3.18 3.61 3.18		AS1631	4 Cyl.	STD
									AS1631010		0.25
									AS1631020		0.50
									AS1631030		0.75
									AS1631040		1.00
									AS1632		STD
									AS1632010		0.25
									AS1632020		0.50
									AS1632030		0.75
									AS1632040		1.00
									AS1633		STD
									AS1633010		0.25
									AS1633020		0.50
									AS1633030		0.75
									AS1633040		1.00

										
AUDI										
HP, JS, KP, PS, RT, SK, SL, 1B, 2B, HX, HY, JT, KM, KU, KV, KX, KZ, MC, RR,	1994 2226	5 5	1984-92 1982-92	20L 90, Quattro, Coupe 2.2L 80, 90, 100, 200, Avant, Quattro,	81.00	1.50 1.75 3.00	3.58 3.61 3.58	AS1634 AS1634010 AS1634020	5 Cyl.	STD 0.50 0.75
APB, BEL	2700	6	2000-05	2.7L A6 Quattro incl. turbo	81.00	1.50 1.75 2.00	3.58 3.61 2.92	AS1635 AS1635010 AS1635020 AS1635030	6 Cyl.	STD 0.50 0.75 1.00
ALZ, ANA, AVU, BFQ, BGU, BSE, BSF, CCSA	1595	4	1994-12	1.6L A3, A4	81.00	1.00 1.20 2.00	3.33 3.15 2.92	AS1636 AS1636010 AS1636020	4 Cyl.	STD 0.50 1.00
1588cc	1588	4		1.6L A4	81.00	1.50 1.50 3.00	3.18 3.23 3.18	AS1637 AS1637010 AS1637020 AS1637030 AS1638 AS1638010 AS1638020 AS1638030 AS1638040 AS1639 AS1639010 AS1639020 AS1639030	4 Cyl.	STD 0.50 0.75 1.00 STD 0.25 0.50 0.75 1.00 STD 0.25 0.50 0.75
ADR, AEB, AFY, AJL, ARK, AGN, AGU, AJP, AJQ, AMB, ANB, APT, APG, APP, APU, AQA, AQE, ARK, ARH, ARG, ARX, ARY, AUM, AUQ, AVJ, AVV, AWT, BEX, BFB, AGB, AZB	1781	4	1995-09	1.8L A3, A4, A6, TT Turbo	81.00	1.50	3.18	AS1640	4 Cyl.	STD
BAM, AUL, APY, APX, AMU, AMK	1781	4	1999-07	1.8L A3, S3, TT Quattro		1.75 2.00	3.61 2.92	AS1640010		0.50
BDV, AML, AGA, AJG, APC, APS, ASM, ARN, AMM, ALV, ALF	2400	6	1997-03	2.4L A4, A6	81.00	1.50 1.50 2.00	3.18 3.35 2.87	AS1641 AS1641010 AS1641020 AS1641030 AS1642	6 Cyl.	STD 0.50 0.75 1.00 STD
AAT, ABP, AEL	2461		1990-97	Turbo Diesel TDi Avant, Estate	81.00	2.50 2.00 3.00	3.48 3.56 3.68	AS1643	1 Cyl.	STD
BDK, BLB, BMM, BNA BPV, BRD, BVA, BVF, BVG	1968		2003-07	Diesel Turbo SOHC TDi, A3, A4	81.00	1.75 2.00 3.00	3.56 3.56 3.68	AS1644 AS1644010	1 Cyl.	STD 0.50
CRBC, CRLB, CRBD, CRFA, CRFC, CUNA,	1968		2012-on	2.0L A3 TDI DIESEL	81.00	1.75 2.00 2.00	3.56 3.56 2.87	AS1645	1 Cyl.	STD
7A	2309		1990-91	2.3L DOHC Coupe, Quattro w/1.2mm top grv.	82.50	1.20 1.75 3.00	3.33 3.61 2.79	AS1646 AS1646010 AS1646020	1 Cyl.	STD 0.25 0.50

										
AUDI										
AAD, ABA, ABK, ADY	1984	4	2005-12	2.0L DOHC A4, A5, Q5	82.50	1.20	3.33	AS1647	4 Cyl.	STD
						1.50	3.25	AS1647010		0.25
						2.00	3.30	AS1647020		0.50
								AS1647030		0.75
								AS1647040		1.00
AVK, BGN, ATQ, AHA	2771	6	1996-03	2.8L Cabriolet, Quattro	82.50	1.20	3.33	AS1648	6 Cyl.	STD
	3000		2001-06	3.0L A4, A6,		1.50	3.25	AS1648010		0.50
						2.00	3.30	AS1648020		0.75
								AS1648030		1.00
	2309		1986-On	2.3L 90, 100, Coupe, Quattro	82.50	1.50	3.25	AS1649	1 Cyl.	STD
						1.75	3.61	AS1649010		0.25
						3.00	2.79	AS1649020		0.50
								AS1649030		1.00
CDN	1984	4		2.0L DOHC Turbo L4	82.50	1.00	3.33	AS1650	4 Cyl.	STD
						1.20	3.48	AS1650010		0.50
						1.50	2.34			
CDA, CDHA, CDHB, CJE, CJS, CJSB,	1798	4	2005-15	1.8L TSI	82.50	4.75	3.12	AS1651	4 Cyl.	STD
CAEA, CAEB, CAED, CAWB, CBFA, CCTA, CCZA, CDNA, CDNC, CESA, CETA, CFKA, CHIB, CJK, CJB, CJC, CNCB, CNCD, CNCE, CPMA, CPMB, CPFA, CYFB, CYNB, CYPB	1984		2005-15	2.0L TSI		4.75	3.48			
						8.00	2.67			
60	1984	4	1977-79	2.0L 100GL, 100LS	86.50	2.00	3.89	AS1652	4 Cyl.	STD
						2.50	3.91	AS1652010		0.50
						5.00	4.11	AS1652020		1.00
								AS1652030		1.50
								AS1653		STD
								AS1653010		0.25
								AS1653020		0.50
								AS1653030		1.00
								AS1653040		1.50
AUSTIN-ROVER										
L, H, LE	998	4	1980-On	Metro L, H, LE1000	64.58	1.60	3.00	AS1701	4 Cyl.	STD
			1968-69	998cc Mini 1000, MKII		1.60	3.02	AS1701010		0.50
						1.60	3.02	AS1701020		0.75
						4.00	3.30	AS1701030		1.00
	998	4	1968-80	Mini 1000	64.57	1.60	3.00	AS1702	4 Cyl.	STD
	1098		1963-70	Healy Sprite MK III, Mark II, 1100		1.60	3.02	AS1702010		0.25
						1.60	3.02	AS1702020		0.50
						3.00	1.27	AS1702030		0.75
								AS1702040		1.00
								AS1702050		1.50
								AS1702060		2.00
								AS1702070		2.50
								AS1702080		3.00
								AS1703		STD
								AS1703010		0.25
								AS1703020		0.50
								AS1703030		0.75
								AS1703040		1.00
								AS1703050		1.50
	4				70.62	1.50	2.95	AS1704	4 Cyl.	STD
						1.50	2.97	AS1704010		0.50
						3.00	3.30	AS1704020		1.00

										
AUSTIN-ROVER										
	1275	4	1982-On Metro, MG Turbo	70.61	1.60	2.95		AS1705	4 Cyl.	STD
	1275		1981-On Allegro		1.60	2.97		AS1705010		0.50
	1275		1980-84 Morris Ital., HL/HLS		4.00	3.43		AS1705020		0.75
	1275		1980-On Metro, MG, S/HLS					AS1705030		1.00
	1275	4	1960-72 America	70.61	1.60	3.30		AS1706	4 Cyl.	STD
	1275		1967-72 Healy Sprite Mark IV		1.60	3.33		AS1706010		0.50
					1.60	3.33		AS1706020		0.75
					4.00	3.43		AS1706030		1.00
								AS1706040		1.50
								AS1707		STD
								AS1707010		0.50
								AS1707020		0.75
								AS1707030		1.00
								AS1707040		1.50
	1798	4	1964-73 Marina, GT 1800	80.26	1.60	3.68		AS1708	4 Cyl.	STD
			1964-71 1800 Mark I & II - For 5 Ring Piston Use 6894 Set Series		1.60	3.71		AS1708010		0.75
			1969-70 1800 Mark II		1.60	3.71				
			1970 Mark II S		4.00	3.94				
	1800	4	1972-76 Marina	80.26	1.60	3.68		AS1709	4 Cyl.	STD
					1.60	3.71		AS1709010		0.75
					4.00	3.94				
AUTOCAR										
	6		315, 331 Engs.	95.25	3.18	3.91		AS1801	6 Cyl.	STD
					3.18	3.94				
					3.18	3.94				
					4.75	4.45				
	6		358, 377 Engs.	101.60	3.18	4.39		AS1802	6 Cyl.	STD
					3.18	4.11				
					3.18	4.11				
					4.75	4.88				
	6		404, 447 Engs.	107.95	3.18	4.34		AS1803	6 Cyl.	STD
					3.18	4.37				
					3.18	4.37				
					4.75	1.27				
	6		453, 501 Engs.	114.30	3.18	4.83		AS1804	6 Cyl.	STD
			501 Engs. 3000D Silvolite Piston		3.18	4.85				
					3.18	4.85				
					4.75	5.08				
BARR										
455 cu. in.	8			104.78	2.00	4.93		AS1901	8 Cyl.	STD
					2.00	4.95		AS1901010		0.25
					4.75	5.00		AS1901020		0.50
								AS1901030		0.75
								AS1901040		1.00
								AS1901050		1.50
								AS1902		STD
								AS1902010		1.00
								AS1903		STD
								AS1903010		0.25
								AS1903020		0.50
								AS1903030		0.75
								AS1903040		1.00
								AS1903050		1.50

										
BARR										
403cu. in.		8			110.52	2.00	5.16	AS1904	8 Cyl.	STD
						2.00	5.18	AS1904010		0.25
						4.75	1.27	AS1904020		0.75
								AS1904030		1.00
								AS1905		STD
								AS1905010		0.25
								AS1905020		0.50
								AS1905030		0.75
								AS1905040		1.00
								AS1905050		1.50
								AS1906		STD
								AS1906010		0.50
								AS1906020		0.75
								AS1906030		1.00
								AS1906040		1.50
BENDIX										
				U 7 1/4 cu. ft. 2UE, TU-FLO 400 Set w/o Oil Ring	52.39	3.18	2.44	AS2001	2 Cyl.	STD
						3.18	2.46	AS2001010		0.25
						3.18	2.46	AS2001020		0.50
						3.18	2.46	AS2001030		0.75
				12 cu. ft. Type E	63.50	3.18	3.20	AS2002	2 Cyl.	STD
						3.18	3.23	AS2002010		0.25
						3.18	3.23	AS2002020		0.50
						3.18	3.23	AS2002030		0.75
						3.18	3.23			
				TU-FLO 500, 17L2, F12, Type E w/o oil rings	63.50	2.38	3.20	AS2003	1 Cyl.	STD
						2.38	3.23	AS2003010		0.25
						3.18	3.23	AS2003020		0.50
						3.18	3.23	AS2003030		0.75
							3.23			
				TU-FLO 501	66.68	2.38	3.12	AS2004	2 Cyl.	STD
						2.38	3.15	AS2004010		0.50
						4.75	1.27	AS2004020		0.75
				TU-FLO 501 5 Ring Piston	66.68	2.38	3.12	AS2005	2 Cyl.	STD
						2.38	3.15	AS2005010		0.25
						2.38	3.33	AS2005020		0.50
						4.75	3.15	AS2005030		0.75
						4.75	3.33			
				TU-FLO 501	66.68	2.38	3.12	AS2006	2 Cyl.	STD
						2.38	3.15	AS2006010		0.50
						4.75	3.81	AS2006020		0.75
						4.75	4.62	AS2006030		1.00
				TU-FLO 501, 162, L2 w/cast oil ring	66.68	2.38	3.12	AS2007	1 Cyl.	STD
						2.38	3.15	AS2007010		0.25
						4.75	3.15	AS2007020		0.50
								AS2007030		0.75
				TU-FLO 600, TU-FLO 700 3 Ring Piston	69.85	2.38	2.69	AS2008	2 Cyl.	STD
						2.38	2.72	AS2008010		0.25
						4.75	3.81	AS2008020		0.50
								AS2008030		0.75
				TU-FLO 600, TU-FLO 700 5 Ring Piston	69.85	2.38	2.69	AS2009	2 Cyl.	STD
						2.38	2.72	AS2009010		0.75
						2.38	2.72			
						4.75	3.81			
						4.75	3.28			

										
BENDIX										
				TU-FLO 550, TU-FLO 750	70.61	2.38	2.72	AS2010	2 Cyl.	STD
						2.38	2.74	4967010		0.25
						2.38	3.43	4967020		0.50
						4.75	3.58	4967030		0.75
						4.75	3.33	4967040		1.00
				Model 159	75.00	2.00	3.45	AS2011	1 Cyl.	STD
						2.00	3.48			
						4.00	3.43			
				TU-FLO 850	80.00	3.00	3.18	AS2012	1 Cyl.	STD
						3.00	3.20			
						3.00	3.20			
						4.00	3.30			
				Model 190	80.00	1.50	3.18	AS2013	1 Cyl.	STD
						1.50	3.20	5032020		0.50
						3.00	3.18			
BERKELEY PACKAJET										
350 cu. in.		8			103.07	2.00	4.85	AS2101	8 Cyl.	STD
						2.00	4.88	AS2101010		0.75
						4.75	5.00	AS2101020		1.00
								AS2101030		1.50
								AS2102		STD
								AS2102010		0.50
								AS2102020		0.75
								AS2102030		1.00
								AS2103		STD
								AS2103010		0.75
455 cu. in.		8			104.78	2.00	4.93	AS2104	8 Cyl.	STD
						2.00	4.95	AS2104010		0.25
						4.75	5.00	AS2104020		0.50
								AS2104030		0.75
								AS2104040		1.00
								AS2104050		1.50
								AS2105		STD
								AS2105010		1.00
								AS2106		STD
								AS2106010		0.25
								AS2106020		0.50
								AS2106030		0.75
								AS2106040		1.00
								AS2106050		1.50
403cu. in.		8			110.52	2.00	5.16	AS2107	8 Cyl.	STD
						2.00	5.18	AS2107010		0.25
						4.75	1.27	AS2107020		0.75
								AS2107030		1.00
								AS2108		STD
								AS2108010		0.25
								AS2108020		0.50
								AS2108030		0.75
								AS2108040		1.00
								AS2108050		1.50
								AS2109		STD
								AS2109010		0.50
								AS2109020		0.75
								AS2109030		1.00
								AS2109040		1.50

										
BERKELEY PACKAJET										
460 cu. in.		8			110.74	2.00	4.70	AS2110	8 Cyl.	STD
						2.00	4.72	AS2110010		0.50
						4.75	4.88	AS2110020		0.75
								AS2110030		1.00
								AS2110040		1.50
								AS2111		STD
								AS2111010		0.50
								AS2111020		0.75
								AS2111030		1.00
								AS2111040		1.50
								AS2112		STD
								AS2112010		0.50
								AS2112020		0.75
								AS2112030		1.00
								AS2112040		1.50
BMW-CARS										
	1364		2003-06	Diesel 1ND-TV (MINI)	73.00	1.50	2.46	AS2201	1 Cyl.	STD
						1.50	2.82			
						3.00	3.68			
	1598	4	2002-08	MINI Cooper W10 SOHC W11 SOHC Supercharged	77.00	1.20	2.92	AS2202	4 Cyl.	STD
						1.50	3.33			
						2.00	2.92			
	1598	4	2007-11	MINI Cooper DOHC N12 non Turbo N14 & N18 Turbo	77.00	1.20	2.92	AS2203	4 Cyl.	STD
						1.20	3.48	AS2203010		0.50
						2.50	2.92	AS2203020		1.00
M54B22, M54226S1	2171	6	2000-10	320i, 320 ci, 520i, Z3, Z4	80.00	1.20	3.12	AS2204	6 Cyl.	STD
						1.50	3.48			
						2.00	2.92			
M52B206S3, M22B206S1	1991	6	1992-94	320i, 520i, E36, E39, E46 M52B206S3, M22B206S1, Series 3	80.00	1.50	3.18	AS2205	6 Cyl.	STD
						1.50	3.48			
						2.00	2.92			
	1900	6	1982-On	320i, 520i	80.00	1.50	3.18	AS2206	6 Cyl.	STD
	1990		1977-On	320/A, 520/A, M60		2.00	3.20	AS2206010		0.50
	2315		1977-On	323i, M60		3.50	3.81	AS2206020		1.00
								AS2207		STD
								AS2207010		0.25
								AS2207020		0.50
								AS2207030		1.00
M 57 D 25,	2497		2000-04	Turbo Diesel M57 D25	80.00	3.00	3.51	AS2208	1 Cyl.	STD
						2.00	3.53			
						3.00	3.43			
M 57 D 25,	2497		2000-04	Turbo Diesel M57, D25, 525d	80.00	2.50	3.35	AS2209	1 Cyl.	STD
						2.00	3.53			
						3.00	3.68			
N52 B25, N52 B254, N52 B25C	2497	6	2001-12	325i, 525i, 523i, X3, Z4, 325xi, 525xi	82.00	1.20	3.12	AS2210	6 Cyl.	STD
						1.50	3.25			
						2.00	2.92			

										
BMW-CARS										
M 57 D 25,	2693	6	1984-87	325E	84.00	1.50	3.43	AS2211	6 Cyl.	STD
	2693		1982-87	528E		2.00	3.45	AS2211010		0.25
						4.00	4.24	AS2211020		0.50
								AS2211030		0.75
								AS2211040		1.00
								AS2212		STD
								AS2212010		0.25
								AS2212020		0.50
								AS2212030		0.75
								AS2212040		1.00
M 40 B 18 E, M 42 B 18, TU1, M 43 B 18, M 43 B 16, M 50 B 25, M 1 E, TU, EU 3 LE, M 52 B 28, M 60 B 30	1596		1993-On	316i M43B16E36 w/1.5mm top grv.	84.00	1.50	3.20	AS2213	2 Cyl.	STD
	1796		1993-On	318i, 518i Z3 M42B18ME w/1.5mm top grv.		1.50	3.73	AS2213010		0.50
	2793		1995-On	323i, 325i, 328i, 523i, 528i, 728i M50B25, M52B28 DOHC w/1.5mm top grv.		2.00	2.92	AS2213020		1.00
	3498		1995-On	535i, 735i M62B35C w/1.5mm top grv.						
								AS2214		STD
								AS2214010		0.50
								AS2214020		1.00
M40B18E, M42B18, M43B16, M52B25, M52B28GG, M54B25	1795		1991-05	318i M40B18E, M42B18, M43B16 w/1.2mm top grv.	84.00	1.20	3.33	AS2215	2 Cyl.	STD
	2494		1992-05	325i, 328i, 525i, M52B25, M52B28GG, M54B25 w/1.2mm top grv.		1.50	3.73	AS2215010		0.50
	2997		1992-05	730i, M60B30 w/1.2mm top grv.		2.00	2.92	AS2215020		1.00
	2494	6	1989-95	525i	84.00	1.50	3.43	AS2216	6 Cyl.	STD
	2494		1987-95	325e, 325i, 325is, 328e Cabriolet		1.75	3.45	AS2216010		0.25
						3.00	3.30	AS2216020		0.50
								AS2216030		0.75
								AS2216040		1.00
	1795	4	1987-90	318i	84.00	1.50	3.43	AS2217	4 Cyl.	STD
						1.75	3.45	AS2217010		0.25
						3.00	3.30	AS2217020		0.50
								AS2217030		0.75
								AS2217040		1.00
E46, M47, M57	1951		1999-07	E46, M47 Diesel Turbo	84.00	3.00	3.66	AS2218	1 Cyl.	STD
	2926		1999-07	M57 Deisel Turbo		2.00	3.43	AS2218010		0.25
						3.00	2.84			
M57D30	2993		2002-05	Turbo Diesel M57D30	84.00	2.50	3.66	AS2219	1 Cyl.	STD
						2.00	3.68			
						3.00	3.68			
M 57 D 20, M 57 D 25, M 57 D 30, M 57 N 306 D4, N 57 306 D 2, M 57 D 44,	2993		2003-11	Turbo Diesel M57, TU2	84.00	2.50	3.35	AS2220	1 Cyl.	STD
						2.00	3.68			
						2.00	2.87			
M44B19	1895	4	1996-On	M44B19, 318i	85.00	1.20	3.33	AS2221	4 Cyl.	STD
						1.50	3.43	AS2221010		0.50
						2.00	3.05	AS2221020		1.00
S52B	2990	6		Series 3, S52B306S1	86.00	1.20	3.12	AS2222	6 Cyl.	STD
	3201			(use .016 ovz) for 3.2L		1.50	3.43			
						2.00	2.79			

										
BMW-CARS										
	2494	6	1968-76	525, 2500, 2800	86.00	1.75	3.20	AS2223	6 Cyl.	STD
	2788		1969-81	528i, 728A		2.00	3.89	AS2223010		0.25
						4.00	4.11	AS2223020		0.50
								AS2223030		1.00
								AS2224		STD
								AS2224010		0.25
								AS2224020		0.50
120, 121, M 10 B 20, M 10 E 20, M 15 E 12, M 10 B 18 K - S, M 30 B 30, M 30 B 32	1766	4	1965-85	318, 518, 1800, 2000, 2002, 2002Ti, 320i, 520	89.00	1.75	3.63	AS2225	4 Cyl.	STD
	1800		1965-85	318, 518, 1800, 2000, 2002Ti, 320i, 520		2.00	3.99	AS2225010		0.25
	1990		1965-85	318, 518, 1800, 2000, 2002, 2002Ti, Tii, 320, 520		4.00	4.11	AS2225020		0.50
	2000		1965-85	318, 518, 1800, 2000, 2002, 2002Ti, 320i, 520				AS2225030		0.75
								AS2225040		1.00
	2985	6	1971-84	Bavaria Coupe, 3.0CS, 3.0S, 3.051, CS, CSi 530, 533i, 630, 728i, 730 Bavaria, 633CSi, 733	89.00	1.75	3.63	AS2226	6 Cyl.	STD
	3000		1971-84	Bavaria Coupe, 3.0CS, 3.0S, 3.051, CS, CSi 530, 533i, 630, 728i, 730 Bavaria, 633CSi, 733		2.00	3.99	AS2226010		0.25
	3210		1971-84	Bavaria Coupe, 3.0CS, 3.0S, 3.051, CS, CSi 530, 533i, 630, 728i, 730 Bavaria, 633CSi, 733		4.00	4.11	AS2226020		0.50
			1971-84					AS2226030		1.00
	2946	6	1986-On	530i, 730i	89.00	1.50	3.25	AS2227	6 Cyl.	STD
	3210		1979-82	745i		2.00	3.99	AS2227010		0.50
						3.50	3.94			
	3453	6	1985-On	535i, M5, M535i Incl. Turbo	92.00	1.50	4.06	AS2228	6 Cyl.	STD
	3453		1983-On	745i Incl. Turbo		2.00	4.09	AS2228010		0.50
	3453		1982-On	635CSi, 735i Incl. Turbo		3.50	3.43	AS2228020		0.75
								AS2228030		1.00
								AS2229		STD
								AS2229010		0.50
								AS2230		STD
								AS2230010		0.50
								AS2230020		0.75
								AS2230030		1.00
	4398	8		735 w/1.2mm top grv.	92.00	1.20	3.33	AS2231	8 Cyl.	STD
						1.50	3.78	AS2231010		0.50
						2.00	2.92			
	4398	8	1998-03	740i, 740L, X5 w/1.5mm top grv. Alusil bore use 2C5296	92.00	1.50	3.45	AS2232	8 Cyl.	STD
						1.50	4.09			
						2.00	2.92			
								AS2233		STD
								AS2233010		0.50
BRIGGS & STRATTON										
				100700	65.09	1.60	3.05	AS2301	1 Cyl.	STD
						1.60	3.07			
						4.00	3.30			
								AS2302		STD

										
BRIGGS & STRATTON										
				350400, 350700, 351700	72.00	1.20	2.92	AS2303	1 Cyl.	STD
						1.20	3.10	AS2303010		0.50
						2.50	2.67			
				220400 to 220499 220700 to 220799 221400 to 221499 222400 to 222499 251400 to 251499 10 HP 251700 to 251799 252400 to 252499 252700 to	87.31	2.00	4.11	AS2304	1 Cyl.	STD
				252799 253400 to 253499 253700 to 253799 254400 to 254499 255400 to 255499 255700 to 255799 256700 to 256799 257700 to 257799 272405		2.00	4.14			
				280700 to 280799 281700 to 281799 282700 to 282799 283700 to 283799 286700 to 286799 300420 to 300425 301430 to 301435 302400 to 302499 320420 to 320428 325430 to 325438		4.75	1.27			
				401400 to 401499 16 HP 401700 to 401799 402400 to 402499 402700 to 402799 404400 to 404499 404700 to 404799 421400 to 421499 421700 to 421799 18 HP 422400 to 422499 422700 to 422799						
				320400 to 320499 14 HP 326400 to 326499	90.49	2.00	4.01	AS2305	1 Cyl.	STD
						2.00	4.29	AS2305010		0.25
						4.75	4.62	AS2305020		0.50
BROOKLURE										
				1950-53 12 H.P.	60.33	2.25	2.59	AS2401	1 Cyl.	STD
						2.25	2.62			
						2.25	2.62			
BSA										
250cc	250			1967-70, MOTORCYCLES	67.00	1.60	2.77	AS2501		STD
750cc	750			1969-70 MOTORCYCLES		1.60	2.79	AS2501010		1.00
						3.18	2.95			
								AS2502		STD
								AS2502010		1.00
650cc	650			1963-70 MOTORCYCLES	75.00	1.60	2.95	AS2503	2 Cyl.	STD
						1.60	2.97	AS2503010		0.50
						3.18	2.97	AS2503020		1.00
								AS2503030		1.50
								AS2503040		2.00
BUDA										
4B153	4			4 Ring Piston	87.31	2.38	3.61	AS2601	4 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	1.27			
						4.75	4.14			
								AS2602		STD

										
BUDA										
4B153		4		4 Ring Piston	87.31	3.18	4.11	AS2603	4 Cyl.	STD
						3.18	3.94	AS2603010		1.50
						3.18	3.94			
						4.75	4.50			
								AS2604		STD
6BD230		6		Diesel Engine	87.31	3.18	4.11	AS2605	6 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	2.54			
						4.75	4.14			
6B230		6		5 Ring Piston	87.31	2.38	3.61	AS2606	6 Cyl.	STD
						3.18	3.94	AS2606010		1.50
						3.18	3.94			
						4.75	1.27			
						4.75	4.14			
								AS2607		STD
H260, HM260, HM260R, HMP260, J260		6			88.90	3.18	3.96	AS2608	6 Cyl.	STD
HMP260R, HP260, HP260R, HPM260,		6				3.18	3.66			
HPM260R		6				3.18	3.66			
						4.75	4.24			
4B153		4		4 Ring Piston	88.90	3.18	3.96	AS2609	4 Cyl.	STD
				M & W Sleeve Kit; Superior Piston #A1987		3.18	3.66			
				FOR INCREASED BORE SLEEVE ASSEMBLIES		3.18	3.66			
						6.00	4.62			
6B230		6		4 Ring Piston	88.90	3.18	3.96	AS2610	6 Cyl.	STD
				Genuine Sleeve Assembly #GE161		3.18	3.66			
				FOR INCREASED BORE SLEEVE ASSEMBLIES		3.18	3.66			
						6.00	4.62			
G262		6			90.49	3.18	4.01	AS2611	6 Cyl.	STD
						3.18	4.04			
						3.18	4.04			
						4.75	4.62			
DA262		6			90.49	3.18	4.01	AS2612	6 Cyl.	STD
						3.18	4.04			
						3.18	4.04			
						4.75	2.49			
						4.75	4.04			
4B153		4		4 Ring Piston	90.49	3.18	4.01	AS2613	4 Cyl.	STD
				* M & W Sleeve Kit SP25S		3.18	4.04			
				INCREASED BORE SLEEVE ASSEMBLIES		3.18	4.04			
						6.00	4.62			
								AS2614		STD

										
BUDA										
6B230		6		6B230 4 Ring Piston * Allied Sleeve Kit #WSA230, Thompson Sleeve Kit M & W Sleeve Kit FOR INCREASED BORE SLEEVE ASSEMBLIES	90.49	3.18	4.01	AS2615	6 Cyl.	STD
						3.18	4.04			
						3.18	4.04			
						6.00	4.62			
								AS2616		STD
4B153		4		4B153 4 Ring Piston * Genuine Sleeve Assembly #GE161 FOR INCREASED BORE SLEEVE ASSEMBLIES	90.49	2.38	4.27	AS2617	4 Cyl.	STD
						2.38	4.29			
						2.38	4.29			
						6.35	4.62			
6B230		6		6B230 4 Ring Piston * McQuay Kit SA195 FOR INCREASED BORE SLEEVE ASSEMBLIES	90.49	2.38	4.27	AS2618	6 Cyl.	STD
						2.38	4.29			
						2.38	4.29			
						6.35	4.75			
H298, HM298, HM298R, HP298, HPM298, HPM298R, K315, 6B273		6		H298, HM298, HM298R, HP298, HPM298, HPM298R, K315, 6B273 Eng's. 4 Ring Piston	95.25	3.18	3.91	AS2619	6 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	4.45			
H199, HM199, 4B182		4		H199, HM199 4B182 Eng's. 4 Ring Piston	95.25	3.18	4.17	AS2620	4 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	1.27			
H326, HM326, HP326, HP351		6		H326, HM326, HP326, HP351 5 Ring Piston	96.84	3.18	4.22	AS2621	6 Cyl.	STD
						3.18	4.24			
						3.18	4.24			
						4.75	4.62			
						4.75	4.24			
								AS2622		STD
H326, HM326, HP326, HP351, K325		6		H326, HM326, HP326, HP351, K325	96.84	3.18	4.22	AS2623	6 Cyl.	STD
						3.18	4.24			
						3.18	4.24			
						4.75	4.62			
								AS2624		STD

										
BUDA										
6DT389		6		6DT389	98.43	3.18	4.29	AS2625	6 Cyl.	STD
						3.18	4.32			
						3.18	4.32			
						4.75	4.88			
						4.75	4.32			
								AS2626		STD
HD344, DA516				HD344 L4 5 ring piston DA516 L6 5 ring piston	112.71	2.25	5.28	AS2627	1 Cyl.	STD
						3.18	4.24			
						3.18	4.24			
						4.75	4.24			
						4.75	5.56			
LO525		6		LO525 5 Ring Piston	114.30	3.18	4.11	AS2628	6 Cyl.	STD
						3.18	4.85			
						3.18	4.85			
						6.00	5.08			
						4.75	4.85			
								AS2629		STD
M858, 6MO893, 6MO970, 8MO1290, 8MOS1290, 4DC645, 4MO645, 6DC893, 6DC970				4MO645	142.88	3.18	5.51	AS2630	1 Cyl.	STD
				M858, 6MO893, 6MO970		3.18	5.54			
				8MO1290, 8MOS1290		3.18	5.54			
				4DC645, 4MO645		6.35	3.23			
				6DC893, 6DC970		6.35	5.54			
CASE										
M2, V, VC, VI, VO		4		M2	76.20	3.18	3.45	AS2701	4 Cyl.	STD
				Case V, VC, VI, VO		3.18	3.48			
						3.18	3.48			
						6.35	4.39			
								AS2702		STD
		4		Case SO	82.55	3.18	3.89	AS2703	4 Cyl.	STD
						3.18	3.78			
						3.18	3.78			
						4.75	4.39			
G148, G148B, GD157, 300, 300B, 301, 301B, 302B, 320, 320DB, 400B, DT34		4		GD157 Continental; G148, G148B	85.73	3.18	4.04	AS2704	4 Cyl.	STD
				GD157 Diesel Cont. 300, 300B, 301, 301B, * 302B, 320, 320DB, 400B, DT34 Series		3.18	3.89			
				VA Engine Allied Sleeve Kit #WSA309 M & W Gear #SP201 Sealed Power #SL1776 Thompson #SA166 White Machine #G223HCH Genuine Parts Sleeve Kit #S149		3.18	3.89			
						6.35	4.32			

										
CASE										
G148B, VA148B, DT34, 300, 300B, 310, 310C, 310D, 310E, 310F, 310G, 320, 320B, 500D, 556D, CASE VA148, LCK, G148B		4		G148B, VA148B	85.73	2.38	4.04	AS2705	4 Cyl.	STD
				G148, VA148 Gas or LPG Eng's. DT34 Series, 1737 * Loader		2.38	4.06			
				G148, VA148 Gas or LPG Eng's. 300, 300B, 310, * 310C, 310D, 310E, 310F, 310G, 320, 320B, 500D, 556D			4.06			
				VA148, LCK, G148B Gas or LPG Eng's. 400B, * 400D, 420, 420B, 420BD, 420C, 430, 440, 441, 456D, 470, 480, 480B, 480CK		6.35	4.39			
H225 , HB225		6		H225 Gas Chry. 700, 900, 960	86.36	2.00	4.09	AS2706	6 Cyl.	STD
				HB225 Chry. 1275		2.00	4.11	AS2706010		0.50
						4.75	4.75	AS2706020		0.75
								AS2706030		1.00
								AS2706040		1.50
								AS2707		STD
								AS2707010		0.50
								AS2707020		0.75
								AS2707030		1.00
								AS2707040		1.50
								AS2708		STD
								AS2708010		0.75
								AS2708020		1.00
								AS2708030		1.50
VA		4		Allied Sleeve Kit #WSA309	87.31	2.38	3.61	AS2709	4 Cyl.	STD
				M & W Gear #SP201		2.38	4.14			
				Sealed Power #SL1776		2.38	4.14			
				Thompson #SA166		4.75	1.27			
				White Machine #G223HCH						
				Genuine Parts Sleeve Kit #S149				AS2710		STD
SP9, G153.9, 153.9		4		S, SC, SE, SI, SO To S/N 8027115	88.90	3.18	3.96	AS2711	4 Cyl.	STD
				SLEEVED ENGINE		3.18	3.66			
						3.18	3.66			
						4.75	1.27			
		4		156G 955, 1140, 1150, 1155	88.90	2.38	4.19	AS2712	4 Cyl.	STD
				G159B		2.38	4.22			
				G159 Gas or LPG 530, 530C, 540, 541, 580, 580B, 580CK Series, W3 Loader		2.38	4.22			
						6.35	4.62			
								AS2713		STD
500B, 510B, 511B, 600B, 610B, 611B		4		G164	90.49	2.38	4.27	AS2714	4 Cyl.	STD
				G164 Gas or LPG 350, 351 Series, 500B, * 510B, 511B, 600B, 610B, 611B Series & W5		2.38	4.29			
						2.38	4.29			
						6.35	4.62			

										
CASE										
		4		G165 Engine M & W Piston M & W Add Power Piston Super Piston Allied Sleeve Kit #WVC310 Basic #BA252 Ertel Sleeve Kit #SA205 Genuine Sleeve Kit #S143 McQuay Norris #SA188 Sealed Power #SL1982 Thompson #SA167 White Machine #G217HCH	92.08	2.38	4.06	AS2715	4 Cyl.	STD
						2.38	4.09			
						2.38	4.09			
						4.75	4.62			
								AS2716	4 Cyl.	STD
G160		4		S, SC, SE, SI, SL, SO S/N 8027115-on, Al. Piston	92.08	2.38	4.06	AS2717	4 Cyl.	STD
						2.38	4.09			
						2.38	4.09			
						4.75	1.27			
								AS2718		STD
		4		Case S, SC, SE, SI, SO S/N 8027115-on, CI * Piston	92.08	3.18	3.84	AS2719	4 Cyl.	STD
						3.18	3.86			
						3.18	3.86			
						4.75	1.27			
								AS2720		STD
		4		G165 Engine M & W Piston M & W Add Power Piston Super Piston Allied Sleeve Kit #WVC310 Basic #BA252 Ertel Sleeve Kit #SA205 Genuine Sleeve Kit #S143 McQuay Norris #SA188 Sealed Power #SL1982 Thompson #SA167 White Machine #G217HCH	92.08	2.38	4.06	AS2721	4 Cyl.	STD
						2.38	4.09			
						2.38	4.09			
						4.75	1.27			
		4		G165 Engine M & W Piston M & W Add Power Piston Super Piston Allied Sleeve Kit #WVC310 Basic #BA252 Ertel Sleeve Kit #SA205 Genuine Sleeve Kit #S143 McQuay Norris #SA188 Sealed Power #SL1982 Thompson #SA167 White Machine #G217HCH	93.66	2.38	4.42	AS2722	4 Cyl.	STD
						2.38	4.50			
						2.38	4.45			
						4.75	4.62			
				GO298 Hercules 1000, 1010	95.25	2.38	4.47	AS2723	1 Cyl.	STD
						3.18	3.94			
						4.75	1.27			
						4.75	4.19			

										
CASE										
		4		188D 600, 660, 1150, 1155, 1255	96.84	3.00	4.55	AS2724	4 Cyl.	STD
				G188D		2.38	4.57			
				G188D After May 1, 1961		4.75	4.45			
				310E, 310F, 3.1 Litre*						
				310G, 350, 420C, 430, 470, 480B, 480CK, 500LK, 530, 530C, 531, 570, 580, 580B, 580CK, LCK, W3, P50						
				G188D 310F, 310G, 350, 430, 431						
				G188D Diesel After May 1, 1961 420C, 430, 450 Crawler, 630, 630C, 631, 632, 634, W5A Series						
A6.354				Perkins 1660, 1665	98.43	2.38	3.96	AS2725	6 Cyl.	STD
				For Chrome sleeves use set 7137 only		2.38	3.99			
						2.38	3.99			
						6.35	2.21			
						6.35	3.48			
		8		HB318 Chry. Gas 1010, 1060, 1160, 1660, 1665	99.31	2.00	4.67	AS2726	8 Cyl.	STD
						2.00	4.70	AS2726010		0.50
						4.75	4.75	AS2726020		0.75
								AS2726030		1.00
								AS2726040		1.50
								AS2727		STD
								AS2727010		0.25
								AS2727020		0.50
								AS2727030		0.75
								AS2727040		1.00
								AS2727050		1.50
								AS2727060		1.75
								AS2728		STD
								AS2728010		0.50
								AS2728020		0.75
								AS2728030		1.00
								AS2728040		1.50
		4		1404	101.60	2.00	4.78	AS2729	4 Cyl.	STD
						2.00	4.80	AS2729010		0.50
						4.75	4.88	AS2729020		0.75
								AS2729030		1.00
								AS2729040		1.50
								AS2730		STD
								AS2730010		0.50
								AS2730020		0.75
								AS2730030		1.00
								AS2730040		1.50
								AS2731		STD
								AS2731010		0.50
								AS2731020		0.75
								AS2731030		1.00
								AS2731040		1.50
								AS2731050		1.63
								AS2732		STD
								AS2732010		0.50
								AS2732020		0.75
								AS2732030		1.00
								AS2732040		1.50
								AS2732050		1.63
A377, A377D, A377S, A377D		6		A377, A377D, A377S	101.60	2.38	4.78	AS2733	6 Cyl.	STD
				A377D Diesel LAD, 500, 520, 600, 620, 920		2.38	4.42			
				A377G W8B, W8C, W8E, W9B, W9C, W9E, * W10B, W10C, W10E Loaders		2.38	4.42			
				A377S LPG 500, 610, 900, 910, 930CK, 930GP, 930WS, 940, 970		6.00	4.88			



CASE												
			4	Case CC, DC - V & F Power Piston	101.60	2.38	4.78			AS2734	4 Cyl.	STD
						3.18	4.11					
						3.18	4.11					
						6.00	4.88					
			4	A251S Gas or LPG 150, 800, 1000	101.60	2.50	4.78			AS2735	4 Cyl.	STD
				A251S		2.38	4.42					
				Case Gas, LPG or Diesel C, D400 Series *		2.38	4.42					
				251 Diesel 400 1956 Only		6.35	4.88					
				A251S Gas, LPG or Diesel W9, A251S Gas or LPG 400, 420, 425, 680, 680CK, 700, 710, 725, 730, 730C, 740, 770, 810								
			4	SP9, SP12, 120	101.60	2.50	4.78			AS2736	4 Cyl.	STD
				D Engine M & W Gear #SP8 304 Series McQuay Norris #SA176 M & W Sleeve Kit #SP8S C.D.		2.38	4.80					
						3.18	4.11					
						6.35	4.88					
			6	A401, A401D	104.78	2.38	4.93			AS2737	6 Cyl.	STD
				A401D Diesel 930, 930CK, 930GP, 930WS, * 1150 Series, W8B, W8C, W9B, W9C, W10, W10B, W10C Loaders		2.38	4.52					
						2.38	4.52					
						6.35	5.00					
A267D			4	Diesel Combines, Threshers 800, 1000	104.78	2.38	4.93			AS2738	4 Cyl.	STD
A267D			4	Diesel Tractor 680, 680B, 680CK, 700, 720		2.38	4.52					
				* 730, 730C, 750, 770, 800, 1000		2.38	4.52					
4-267				Diesel 400 Super, 750, W9		6.35	5.00					
			4	A284GF 1000, 1010, 1060, 1160	107.95	2.38	5.05			AS2739	4 Cyl.	STD
				A267D, A284, A284GF		2.38	4.37					
				A284GF Gas or LPG 830, 830C, 840, W7, * W7C, W7E, W9A		2.38	4.37					
						6.3	4.88					
			4	JD382 Cont. 1000BR, 1000C, 1000D, 1010 *	114.30	3.18	5.36			AS2740	4 Cyl.	STD
						3.18	4.85					
						3.18	4.85					
						6.35	2.90					
						4.75	4.85					
CATERPILLAR												
E43, E44, E50, E51				E43, E44, E50, E51, T69 Late Piston	92.08	2.38	4.06			AS2801	2 Cyl.	STD
						2.38	4.09					
						4.75	2.39					



CATERPILLAR										
1404		4		1404 Lift Truck	101.60	2.00	4.78	AS2802	4 Cyl.	STD
						2.00	4.80	AS2802010		0.50
						4.75	4.88	AS2802020		0.75
								AS2802030		1.00
								AS2802040		1.50
								AS2803		STD
								AS2803010		0.50
								AS2803020		0.75
								AS2803030		1.00
								AS2803040		1.50
								AS2804		STD
								AS2804010		0.50
								AS2804020		0.75
								AS2804030		1.00
								AS2804040		1.50
								AS2804050		1.63
								AS2805		STD
								AS2805010		0.50
								AS2805020		0.75
								AS2805030		1.00
								AS2805040		1.50
								AS2805050		1.63
				3208 Individual OE Ref. #9L6233, Oil 2W8045 Two Ring Piston OE Set Ref. #2S8265	114.30	3.17	5.10	AS2806	1 Cyl.	STD
						2.79	4.95	AS2806010		0.50
								AS2806020		0.75
								AS2806030		1.00
				3208 OE Set Ref. #199-9872 Three Ring Piston, Keystone Comp Ring	114.30	3.17	4.58	AS2807	1 Cyl.	STD
						3.17	4.90	AS2807010		0.50
						2.79	4.43	AS2807020		1.00
				3208 Three Ring Piston (Rectangular rings) OE Set Ref. #2W8265-3R	114.30	2.38	5.30	AS2808	1 Cyl.	STD
						2.38	5.30	AS2808010		0.50
						4.76	5.00			



CATERPILLAR											
517538		1			102	3	4	1			
					102	2	4	2	AS2809		
					102	4	2.8	O			
7E5214		1		4P6914	105	3	4.4	1			
					105	3	4.35	2	AS2810		
					105	4	3.25	O			
7E5213		1			105	3	4.35	1			
					105	3	4.35	2	AS2811		
					105	4	3.15	O			
517538N		1			105	3	4	1			
					105	2	4	2	AS2812		
					105	4	2.75	O			
2W8265		1			114.3	3.14	4.7	1	AS2813		
					114.3	2.75	3.48	O			
					114.3	3.175	4.6	1			
3S4029		1			114.3	2.38	4.5	2	AS2814		
					114.3	5.55	4.8	O			
7E4729RS		1			114.3	3.1	4.4	1			
					114.3	3.1	4.4	2	AS2815		
					114.3	2.8	4.38	O			
2W8265		1			114.3	2.4	5.2	1			
					114.3	2.4	5.2	2	AS2816		
					114.3	4.75	4	O			
2W6091		1			120.65	3.14	4.67	1			
					120.65	2.36	4.6	2	AS2817		
					120.65	3.15	4.15	O			
2W1709		1			120.65	3	4.85	1			
					120.65	2.8	4.85	2	AS2818		
					120.65	3.15	4.15	O			
2W1709		1			120.65	3	4.85	1			
					120.65	2.8	4.85	2	AS2819		
					120.65	3.15	3.4	O			
7S9404		1			120.65	3.17	4.6	1			
					120.65	2.38	4.6	2	AS2820		
					120.65	5.54	4	O			
9S3068		1		D4D D6C	120.65	3.15	4.8	1			
					120.65	2.38	4.6	2	AS2821		
					120.65	5.53	3.6(5)	O			
211-4321		1			120.65	2.95	4.85	1			
					120.65	2.8	4.85	2	AS2822		
					120.65	4	3.5	O			
8N0822		1			137.16	3	5.4	1			
					137.16	2.95	5.4	2	AS2823		
					137.16	3.15	4	O			
1W8922		1			137.16	3.8	5.4	1			
					137.16	2.95	5.4	2	AS2824		
					137.16	3.15	4	O			
3406B	5400	1			137.16	3.969		C1			
					137.16	3.969		C2	AS2825		
					137.16	3.969		O			
D7D8		1			146	4.75	5.8	1			
					146	2.38	5.45	2	AS2826		
					146	6.35	4.5	O			
							-5.8				
8N5760		1			146	3.85	5.7	1			
					146	3.7	5.7	2	AS2827		
					146	6.35	5.9	O			



	 CC	 CYL/ENG						 PART#	 CYL/SET	 MM
CHECKER										
	6	1959-63	All w/Cont. FO6226	84.14	2.38	3.99		AS2901	6 Cyl.	STD
					2.38	4.01		AS2901010		1.00
					4.00	4.39				
					4.00	4.01				
267 C.I.D.	8	1980-82	4.4Litre	88.90	2.00	4.19		AS2902	8 Cyl.	STD
					2.00	4.22		AS2902010		0.75
					4.75	1.27		AS2902020		1.00
								AS2902030		1.50
								AS2903		STD
								AS2903010		0.25
								AS2903020		0.50
								AS2903030		0.75
								AS2903040		1.00
								AS2904		STD
								AS2904010		0.75
								AS2904020		1.00

										
CHECKER										
305cu. in.		8	1977-81		94.89	2.00	4.17	AS2905	8 Cyl.	STD
						2.00	4.19	AS2905010		0.25
						4.75	5.21	AS2905020		0.50
								AS2905030		0.75
								AS2905040		1.00
								AS2905050		1.50
								AS2906		STD
								AS2906010		0.25
								AS2906020		0.50
								AS2906030		0.75
								AS2906040		1.00
								AS2906050		1.50
								AS2907		STD
								AS2907010		0.25
								AS2907020		0.50
								AS2907030		0.75
								AS2907040		1.00
								AS2907050		1.50
229cu. in.		6	1980-82		94.89	2.00	4.17	AS2908	6 Cyl.	STD
						2.00	4.19	AS2908010		0.25
						4.75	5.21	AS2908020		0.50
								AS2908030		0.75
								AS2908040		1.00
								AS2908050		1.50
								AS2909		STD
								AS2909010		0.25
								AS2909020		0.50
								AS2909030		0.75
								AS2909040		1.00
								AS2909050		1.50
								AS2910		STD
								AS2910010		0.25
								AS2910020		0.50
								AS2910030		0.75
								AS2910040		1.00
								AS2910050		1.50
283cu. in.		8	1964-67 Chev.		98.43	2.00	4.62	AS2911	8 Cyl.	STD
307cu. in.			1968-73			2.00	4.65	AS2911010		0.25
						4.75	4.88	AS2911020		0.50
								AS2911030		0.75
								AS2911040		1.00
								AS2911050		1.50
								AS2911060		2.00
								AS2912		STD
								AS2912010		0.25
								AS2912020		0.50
								AS2912030		0.75
								AS2912040		1.00
								AS2912050		1.50
								AS2912060		2.00
								AS2913		STD
								AS2913010		0.25
								AS2913020		0.50
								AS2913030		0.75
								AS2913040		1.00
								AS2913050		1.50
								AS2913060		2.00

										
CHECKER										
230 C.I.D.		6	1964-68		98.43	2.00	4.62	AS2914	6 Cyl.	STD
250 C.I.D.		6	1969-79 4.4Litre			2.00	4.65	AS2914010		0.25
						4.75	4.88	AS2914020		0.50
								AS2914030		0.75
								AS2914040		1.00
								AS2914050		1.50
								AS2914060		2.00
								AS2915		STD
								AS2915010		0.25
								AS2915020		0.50
								AS2915030		0.75
								AS2915040		1.00
								AS2915050		1.50
								AS2915060		2.00
								AS2916		STD
								AS2916010		0.25
								AS2916020		0.50
								AS2916030		0.75
								AS2916040		1.00
								AS2916050		1.50
								AS2916060		2.00
327cu. in.		8	1966-68		101.60	2.00	4.78	AS2917	8 Cyl.	STD
350cu. in.			1969-79			2.00	4.80	AS2917010		0.25
						4.75	4.88	AS2917020		0.50
								AS2917030		0.75
								AS2917040		1.00
								AS2917050		1.50
								AS2917060		1.75
								AS2917070		2.00
								AS2917080		2.50
								AS2918		STD
								AS2918010		0.25
								AS2918020		0.50
								AS2918030		0.75
								AS2918040		1.00
								AS2918050		1.50
								AS2918060		1.75
								AS2918070		2.00
								AS2919		STD
								AS2919010		0.13
								AS2919020		0.25
								AS2919030		0.50
								AS2919040		0.75
								AS2919050		1.00
								AS2919060		1.50
								AS2919070		1.75
								AS2919080		2.00
								AS2919090		2.50
350cu. in.		8	1980-82 Diesel		103.06	2.00	4.80	AS2920	8 Cyl.	STD
						2.00	4.88	AS2920010		0.25
						4.75	4.60	AS2920020		0.50
								AS2920030		0.75
								AS2920040		1.00
CHRIS-CRAFT										
A, B, BR, IXB		4	Hercules Engine		82.55	3.18	3.89	AS3001	4 Cyl.	STD
						3.18	3.78	AS3001010		0.50
						4.75	1.27	AS3001020		1.50
								AS3002		STD
		6	K To S/N 21142, Part. 21142-21299, QXC		85.73	3.18	4.04	AS3003	6 Cyl.	STD
						3.18	3.89			
						3.18	3.89			
						4.75	1.27			

										
CHRIS-CRAFT										
KBL, KFL, KL, KLC	6			KBL, KFL, KL, KLC	87.31	2.38	4.11	AS3004	6 Cyl.	STD
						3.18	3.94			
						4.75	1.27			
	6			K S/N 731166-on, QXD	87.31	2.38	4.11	AS3005	6 Cyl.	STD
						2.38	4.14			
						4.75	1.27			
	6			M To S/N 11462 Hercules JXD	101.60	3.18	4.39	AS3006	6 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						4.75	4.88			
	6			MBL To S/N 13567 MCI, JXD	101.60	2.50	4.78	AS3007	6 Cyl.	STD
						3.18	4.11			
						4.75	4.88			
						4.75	4.37			
	6			M S/N 11461-on Hercules JXD; MBL, ML S/N 13566-on	101.60	2.38	4.78	AS3008	6 Cyl.	STD
						3.18	4.11	AS3008010		1.00
						4.75	4.88			
CHRYSLER										
	6			PE S/N PE104074-on, PF, PG S/N PF2987-on, Late, PJ, P1, P2, P3, P4, P5, P6, P7, P8, P9, P10 & Truck Models AL U-Slot Piston Plymouth	79.38	3.18	3.76	AS3101	6 Cyl.	STD
			1934-40	T25, T50, T57, T81, T105		3.18	3.78			
						4.00	4.39			
						4.00	3.78			
	6			P11, P12; P1125 Truck Models Plymouth	79.38	2.38	3.76	AS3102	6 Cyl.	STD
			1941	T57, T105, T112, T125		3.18	3.78			
						4.00	4.39			
						4.00	3.78			
218cu. in.	6				82.55	2.25	3.89	AS3103	6 Cyl.	STD
230cu. in.			1942-59	Dodge, Plymouth		2.25	3.91	AS3103010		1.00
			1942-59	T112, T116, T124, T125, T128, T215, IND5, IND5A, IND6, IND6A, 30, 31, 931 Repl. 218, 230 Ace, M46, M46S 218, Eng.		4.00	4.39	AS3103020		1.50
						4.00	3.91			
230 cu. in.								AS3104		STD
DU, D2, D5, D8, D11, D14, D17	6			DU, D2, D5, D8, D11, D14, D17 Dodge	82.55	3.18	3.89	AS3105	6 Cyl.	STD
			1935-40	T26, T72, T96		3.18	3.78			
						4.00	4.39			
						4.00	3.91			
T116, T207, T211, T215	6			Deluxe, Custom D19 Dodge	82.55	2.38	3.89	AS3106	6 Cyl.	STD
			1941	T116, T207, T211, T215		3.18	3.78			
						4.00	4.39			
						4.00	3.91			
C30, C36, IND9, IND12	8			8 Cyl. Models Chry.	82.55	2.38	3.89	AS3107	8 Cyl.	STD
			1942-50	C30, C36, IND9, IND12		2.38	3.91	AS3107010		1.00
						4.00	4.39			
						4.00	3.91			

										
CHRYSLER										
H170, H225, HB170, HB225, HC170, HC225		6		170cu. in. Slant 6 Plymouth	86.36	2.00	4.09	AS3108	6 Cyl.	STD
198cu. in.			1960-69	Plymouth		2.00	4.11	AS3108010		0.50
225cu. in.			1970-73	Chry.		4.75	4.75	AS3108020		0.75
			1960-83	H170, H225, HB170, HB225, HC170, HC225				AS3108030		1.00
				M170, A; M225A, D; A, A-J				AS3108040		1.50
				Jet, 103 series						
225 cu. in.				170, 198, Engs.				AS3109		STD
								AS3109010		0.50
								AS3109020		0.75
								AS3109030		1.00
								AS3109040		1.50
								AS3110		STD
								AS3110010		0.75
								AS3110020		1.00
								AS3110030		1.50
42, T118, T120, T130, IND7, IND8, IND8A, 32, 33, 90BA, IND236, 251, 265		6		236cu. in.	87.31	2.38	3.61	AS3111	6 Cyl.	STD
265cu. in.			1942-51	Exc. Canada		2.38	4.14			
			1951-54	T42, T118, T120, T130, IND7, IND8, IND8A, 32, 33, 90BA, IND236, 251, 265 Repl. 237, 251		4.00	4.50			
				Crown, M47, M47S		4.00	4.14			
265 cu. in.				251, Engs.						
								AS3112		STD
241cu. in.		8		D44, D48, D50, D53, All V8 Models Dodge	87.31	2.00	4.11	AS3113	8 Cyl.	STD
			1953-54	Models P27 First 50,000 Engs. 241cu. in Plymouth		2.00	4.14			
			1955	IND18, IND18A, VT344, VT346		4.75	1.27			
265cu. in.		6		Canada	87.31	2.00	4.11	AS3114	6 Cyl.	STD
251 cu. in.			1954-59	3 Ring Piston		2.00	4.14	AS3114010		0.75
			1954-59	T42, IND8A, MA7-3, M47-4		4.75	1.27			
								AS3115		STD
								AS3115010		0.75
260cu. in.		8		Models P27 After First 50,000 Engs. 2 Plymouth	90.49	2.00	4.01	AS3116	8 Cyl.	STD
			1955	52, M44S		2.00	4.29	AS3116010		1.50
						4.75	4.62			
M00(HR425CL)	2499	4	1992-95	2.5L TD Turbo Diesel Voyager	92.00	2.50	4.01	AS3117	1 Cyl.	STD
VM425HR, (M51), VM425HR(M52)	250	4		2.5L TD, 2.5L CRD Turbo Diesel Voyager		2.00	4.04			
						4.00	4.24			

										
CHRYSLER										
270cu. in.	8	1956	P29 S/N 40001-80000 Plymouth	92.08	2.00	4.32		AS3118	8 Cyl.	STD
273cu. in.		1964-69	Dodge, Plymouth		2.00	4.34		AS3118010		0.25
273cu. in.		1955	Chry., Windsor C67		4.75	1.27		AS3118020		0.50
301cu. in.		1955	IND19, IND53, IND54, M445-3					AS3118030		0.75
								AS3118040		1.00
								AS3118050		1.50
								AS3119		STD
								AS3119010		0.50
								AS3119020		0.75
								AS3119030		1.00
								AS3120		STD
								AS3120010		0.75
								AS3120020		1.00
								AS3120030		1.50
S21, S22, S23, S24	8		330cu. in. S21, S22, S23, S24, All V8 Models Desoto	94.46	2.00	4.45		AS3121	8 Cyl.	STD
		1955-56	54		2.00	4.47		AS3121010		0.75
					4.75	4.75		AS3121020		1.00
								AS3121030		1.50
								AS3122		STD
								AS3122010		0.75
								AS3122020		1.00
								AS3122030		1.50
								AS3123		STD
								AS3123010		0.75
								AS3123020		1.00
								AS3123030		1.50
H318, HB318, HC318, HT318, M80, M318A, M318B, M318C	8		301cu. in.	99.31	2.00	4.67		AS3124	8 Cyl.	STD
318cu. in.		1957			2.00	4.70		AS3124010		0.50
		1958-89	H318, HB318, HC318, HT318, M80, M318A, M318B, M318C		4.75	4.75		AS3124020		0.75
								AS3124030		1.00
								AS3124040		1.50
								AS3125		STD
								AS3125010		0.25
								AS3125020		0.50
								AS3125030		0.75
								AS3125040		1.00
								AS3125050		1.50
								AS3125060		1.75
								AS3126		STD
								AS3126010		0.50
								AS3126020		0.75
								AS3126030		1.00
								AS3126040		1.50
318 cu. in.	8		Shallow Oil Ring Groove	99.31	2.00	4.67		AS3127	8 Cyl.	STD
					2.00	4.70		AS3127010		0.50
					4.00	3.81		AS3127020		0.75
								AS3127030		1.00
								AS3127040		1.50
								AS3128		STD
								AS3128010		0.50
								AS3128020		0.75
								AS3128030		1.00
								AS3128040		1.50
								AS3129		STD
								AS3129010		0.50
								AS3129020		0.75
								AS3129030		1.00
								AS3129040		1.50
IND56A, M45-3, M45SP3	8		354cu. in.	100.01	2.00	4.34		AS3130	8 Cyl.	STD
354 cu. in.		1956-58	IND56A, M45-3, M45SP3		2.00	4.37		AS3130010		0.75
					4.75	1.27				

										
CHRYSLER										
360 C.I.D.		8	1971-80 5.9L Plymouth		101.60	2.00	4.78	AS3131	8 Cyl.	STD
360 C.I.D.		8	1971-95 5.9L Dodge			2.00	4.80	AS3131010		0.25
360 C.I.D.		8	1971-84 5.9L Chrysler			4.75	4.88	AS3131020		0.50
392 C.I.D.		8	1956-58 6.4L					AS3131030		0.75
								AS3131040		1.00
								AS3131050		1.50
								AS3131060		1.75
								AS3131070		2.00
								AS3131080		2.50
								AS3132		STD
								AS3132010		0.25
								AS3132020		0.50
								AS3132030		0.75
								AS3132040		1.00
								AS3132050		1.50
								AS3132060		1.75
								AS3132070		2.00
								AS3133		STD
								AS3133010		0.25
								AS3133020		2.50
								AS3133030		0.50
								AS3133040		0.75
								AS3133050		1.00
								AS3133060		0.13
								AS3133070		1.50
								AS3133080		1.75
								AS3133090		2.00
T190, T199, IND15, IND15A, 34, 35		6	T190, T199, IND15, IND15A, 34, 35		101.60	2.50	4.78	AS3134	6 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						6.00	4.88			
340cu. in.		8			102.62	2.00	4.29	AS3135	8 Cyl.	STD
340 cu. in.			1968-73			2.00	4.83	AS3135010		0.50
						4.75	5.08	AS3135020		0.75
								AS3135030		1.00
								AS3135040		1.50
								AS3135050		1.75
								AS3136		STD
								AS3136010		0.50
								AS3136020		0.75
								AS3136030		1.00
								AS3137		STD
								AS3137010		0.50
								AS3137020		0.75
								AS3137030		1.00
								AS3137040		1.50
HT361		8	HT361		104.78	2.38	4.93	AS3138	8 Cyl.	STD
361 cu. in.						2.38	4.95	AS3138010		0.50
						4.75	5.00	AS3138020		0.75
								AS3138030		1.00
								AS3138040		1.50
								AS3139		STD
								AS3139010		0.75
								AS3139020		1.00
								AS3139030		1.50
H361, HB361, HC361		8	361cu. in. 59-69 Canada		104.78	2.00	4.93	AS3140	8 Cyl.	STD
			1958-66 H361, HB361, HC361			2.00	4.95	AS3140010		0.25
361 cu. in.						4.75	5.00	AS3140020		0.50
								AS3140030		0.75
								AS3140040		1.00
								AS3140050		1.50
								AS3141		STD
								AS3141010		1.00

										
CHRYSLER										
								AS3142	STD	
								AS3142010	0.25	
								AS3142020	0.50	
								AS3142030	0.75	
								AS3142040	1.00	
								AS3142050	1.50	
MC3H, H413		8		413cu. in. MC3H	106.36	2.00	4.98	AS3143	8 Cyl.	STD
413 cu. in.			1959-65	H413		2.00	5.00	AS3143010	0.75	
						4.75	5.00	AS3143020	1.00	
								AS3143030	0.75	
								AS3143040	1.00	
H383, HA383, M383, M383B, M426, M426D, M426D-606, 607, 608		8		383cu. in. Chry., Plymouth 59-71 Canada	107.95	2.00	5.05	AS3144	8 Cyl.	STD
383cu. in.			1969-71	Chry. RC2 Windsor		2.00	5.08	AS3144010	0.25	
426cu. in.			1961-68	RC2 Windsor Exc. Hemi		4.75	4.88	AS3144020	0.50	
			1963-71	H383, HA383, M383, M383B, M426, M426D, M426D-606, 607, 608				AS3144030	0.75	
								AS3144040	1.00	
								AS3144050	1.50	
								AS3144060	2.00	
								AS3144070	2.50	
								AS3145	STD	
								AS3145010	0.25	
								AS3145020	0.50	
								AS3145030	0.75	
								AS3145040	1.00	
								AS3145050	1.50	
								AS3146	STD	
								AS3146010	0.25	
								AS3146020	0.50	
								AS3146030	0.75	
								AS3146040	1.00	
								AS3146050	1.50	
								AS3146060	1.75	
								AS3146070	2.00	
								AS3146080	2.50	
B440		8		440cu. in. Chry., Plymouth	109.73	2.00	5.13	AS3147	8 Cyl.	STD
440 cu. in.			1966-78	Irrigation Use		2.00	5.16	AS3147010	0.25	
440 cu. in.						4.75	4.88	AS3147020	0.50	
								AS3147030	0.75	
								AS3147040	1.00	
								AS3147050	1.50	
								AS3148	STD	
								AS3148010	0.75	
								AS3148020	1.00	
								AS3148030	1.50	
								AS3149	STD	
								AS3149010	0.75	
								AS3149020	1.00	
								AS3149030	1.50	
400cu. in.		8			110.29	2.00	5.16	AS3150	8 Cyl.	STD
400 cu. in.			1972-78			2.00	5.18	AS3150010	0.75	
						4.75	1.27			
								AS3151	STD	
								AS3152	STD	
								AS3152010	0.50	
								AS3152020	0.75	
								AS3152030	1.00	

										
CHRYSLER-AUSTRALIA										
245 cu. in.	6	1973-75	Chry. "D" Hemi Charger, Regal	95.50	2.00	4.47		AS3153	6 Cyl.	STD
245 cu. in.		1971-72	Chry. "D" Ranger XL		2.00	4.50		AS3153010		0.50
245 cu. in.		1970	Chry. "D" Hemi, Valiant VG, VH, VJ, Pacer & Regal 770 VIP		4.75	1.27		AS3153020		1.00
								AS3154		STD
								AS3154010		0.50
								AS3154020		1.00
239cu. in.	6	1971-On	Dodge, Plymouth	99.31	2.00	4.67		AS3155	6 Cyl.	STD
265 cu. in.		1987-89	Chry. Valiant VH & CH, Plymouth		2.00	4.70		AS3155010		0.50
					4.75	4.75		AS3155020		0.75
								AS3155030		1.00
								AS3155040		1.50
								AS3156		STD
								AS3156010		0.50
								AS3156020		0.75
								AS3156030		1.00
								AS3156040		1.50
								AS3157		STD
								AS3157010		0.50
								AS3157020		0.75
								AS3157030		1.00
								AS3157040		1.50
CHRYSLER-INCLUDES CHRYSLER, DESOTO, DODGE & PLYMOUTH										
	1187	4	1973-76 74cu. in. Plymouth Mitsubishi 4G42	71.00	2.00	3.30		AS3201	4 Cyl.	STD
					2.00	3.33				
					4.00	3.81				
								AS3202		STD
								AS3202010		0.50
								AS3202020		1.00
G12B		4	1979-85 86cu. in. Vin: J Dodge Colt, Plymouth Champ - Mitsubishi G12B	74.00	1.50	3.20		AS3203	4 Cyl.	STD
					1.50	3.45		AS3203010		0.25
					4.00	3.30		AS3203020		0.50
								AS3203030		0.75
								AS3203040		1.00
								AS3203050		1.50
								AS3204		STD
								AS3204010		0.25
								AS3204020		0.50
								AS3204030		0.75
								AS3204040		1.00
								AS3204050		1.50
								AS3205		STD
								AS3205010		0.50
								AS3205020		0.75
								AS3205030		1.00
								AS3205040		1.50
G15B, 4G15, G4AJ, G4DJ		4	1991-96 92cu. in. Vin: A,Q, 12 Valve G15B, 4G15, G4AJ, G4DJ	75.50	1.20	2.92		AS3206	4 Cyl.	STD
					1.50	3.12		AS3206010		0.25
					3.00	3.18		AS3206020		0.50
								AS3206030		0.75
								AS3206040		1.00
								AS3206050		1.50
G15B		4	1985-92 92cu. in. Vin: Q Dodge, Plymouth - Mitsubishi G15B	75.50	1.50	2.95		AS3207	4 Cyl.	STD
					1.50	3.12		AS3207010		0.25
					4.00	3.68		AS3207020		0.50
								AS3207030		0.75
								AS3207040		1.00
								AS3207050		1.50

										
CHRYSLER-INCLUDES CHRYSLER, DESOTO, DODGE & PLYMOUTH										
								AS3208	STD	
								AS3208010	0.25	
								AS3208020	0.50	
								AS3208030	0.75	
								AS3208040	1.00	
								AS3208050	1.50	
								AS3209	STD	
								AS3209010	0.25	
								AS3209020	0.50	
								AS3209030	0.75	
								AS3209040	1.00	
		4	1984-90	98cu. in. Vin: K SOHC	76.90	1.50	3.30	AS3210 4 Cyl.	STD	
						1.50	3.68	AS3210010	0.50	
						4.00	3.43	AS3210020	0.75	
								AS3210030	1.00	
								AS3211	STD	
								AS3211010	0.25	
								AS3211020	0.50	
								AS3211030	0.75	
								AS3211040	1.00	
4G32, G32B	1597	4	1971-74	97.5cu. in. Dodge Colt - Mitsubishi 4G32	76.90	2.00	3.66	AS3212 4 Cyl.	STD	
	1597		1971-84	98cu. in. Dodge Challenger Colt 77 H.P., G32B		2.00	3.68	AS3212010	0.25	
						4.00	3.94	AS3212020	0.50	
								AS3212030	0.75	
								AS3212040	1.00	
								AS3212050	1.50	
								AS3213	STD	
								AS3213010	0.25	
								AS3213020	0.50	
								AS3213030	0.75	
								AS3213040	1.00	
105cu. in.	1715	4	1978-84	Dodge Omni, Plymouth Horizon	79.50	1.75	3.15	AS3214 4 Cyl.	STD	
						2.00	3.43	AS3214010	0.25	
						4.00	3.81	AS3214020	0.50	
								AS3214030	0.75	
								AS3214040	1.00	
								AS3214050	1.50	
								AS3215	STD	
								AS3215010	0.25	
								AS3215020	0.50	
								AS3215030	0.75	
								AS3215040	1.00	
								AS3215050	1.50	
								AS3216	STD	
								AS3216010	0.25	
								AS3216020	0.50	
								AS3216030	0.75	
								AS3216040	1.00	
								AS3216050	1.50	
		4	1983-86	97cu. in. Dodge, Plymouth - Peugeot	80.60	1.75	3.58	AS3217 4 Cyl.	STD	
						2.00	3.61	AS3217010	0.50	
						4.00	4.11			
								AS3218	STD	
								AS3218010	0.50	
4G37		4	1989-93	107cu. in. 4G37 Vin: P,T	80.60	1.50	3.58	AS3219 4 Cyl.	STD	
						1.50	3.61	AS3219010	0.50	
						4.00	3.30	AS3219020	0.75	
								AS3219030	1.00	
								AS3220	STD	
								AS3220010	0.50	
								AS3220020	0.75	
								AS3220030	1.00	
								AS3220040	1.50	

										
CHRYSLER-INCLUDES CHRYSLER, DESOTO, DODGE & PLYMOUTH										
G62B	1795	4	1985-86	110cu. in. Plymouth Mitsubishi, G62B	80.60	2.00	3.58	AS3221	4 Cyl.	STD
						2.00	3.61	AS3221010		0.50
						4.00	3.81	AS3221020		0.75
								AS3221030		1.00
								AS3221040		1.50
								AS3222		STD
								AS3222010		0.50
								AS3222020		0.75
								AS3222030		1.00
4G31, 4G61		4	1989-93	98cu. in. Vin: K DOHC Incl. Turbo 4G31, 4G61 Mitsubishi	82.30	1.20	3.33	AS3223	4 Cyl.	STD
						1.50	3.61	AS3223010		0.50
						3.00	2.79	AS3223020		0.75
								AS3223030		1.00
6G73	2497	6	1995-00	152cu. in. Mitsubishi 6G73	83.50	1.20	3.12	AS3224	6 Cyl.	STD
						1.50	3.81	AS3224010		0.50
						3.00	3.18	AS3224020		0.75
								AS3224030		1.00
G52B		4	1974-82	122cu. in. Dodge Colt G52B	84.00	2.00	3.99	AS3225	4 Cyl.	STD
						2.00	3.84	AS3225010		0.50
						4.00	3.43	AS3225020		0.75
								AS3225030		1.00
								AS3225040		1.50
								AS3226		STD
								AS3226010		0.25
								AS3226020		0.50
								AS3226030		0.75
								AS3226040		1.00
								AS3226050		1.50
122cu. in.	2000	4	1988-93	GTX, DOHC & SOHC Dodge, Plymouth, Incl. Turbo	85.00	1.20	3.33	AS3227	4 Cyl.	STD
122cu. in.			1990-92	Vin: A DOHC Incl. Turbo		1.50	3.43	AS3227010		0.25
						3.00	3.30	AS3227020		0.50
								AS3227030		0.75
								AS3227040		1.00
								AS3227050		0.25
4G63		4	1983-87	122cu. in. D-50 Dodge, Plymouth Leaded Gas To 11-1-86 4G63	85.00	2.00	3.81	AS3228	4 Cyl.	STD
						2.00	3.45	AS3228010		0.50
						4.00	3.43	AS3228020		0.75
								AS3228030		1.00
								AS3228040		1.50
								AS3229		STD
								AS3229010		0.50
								AS3229020		0.75
								AS3229030		1.00
								AS3229040		1.50
4G63, G54B		4	1987-91	122cu. in. D-50 Dodge, Plymouth Unleaded Gas After 11-1-86 4G63	85.00	1.50	3.43	AS3230	4 Cyl.	STD
122cu. in.			1987-91	D-50 Dodge G54B		1.50	3.43	AS3230010		0.25
						4.00	3.81	AS3230020		0.50
								AS3230030		0.75
								AS3230040		1.00
								AS3230050		1.50
								AS3231		STD
								AS3231010		0.25
								AS3231020		0.50
								AS3231030		0.75
								AS3231040		1.00
								AS3231050		1.50
								AS3232		STD
								AS3232010		0.25
								AS3232020		0.50
								AS3232030		1.50

										
CHRYSLER-INCLUDES CHRYSLER, DESOTO, DODGE & PLYMOUTH										
110cu. in.	1798	4	2006-10	Vin: C World Engine	86.00	1.20	3.33	AS3233	4 Cyl.	STD
122cu. in.	1998		2006-11	Vin: A,B World Engine		1.20	3.58	AS3233010		0.50
						2.00	2.79	AS3233020		0.75
								AS3233030		1.00
167cu. in.		6	1998-10	V-6 2700 Vin: N,R,T,U	86.00	1.50	3.25	AS3234	6 Cyl.	STD
						1.50	3.43	2M4946010		0.25
						3.00	3.30	2M4946020		0.50
								2M4946030		0.75
								2M4946004		0.10
								2M4946040		1.00
								2M4946060		1.50
167cu. in.		6	1998-03	V-6 2700, Vin: R,T,U w/Deep oil ring groove After Market Pistons	86.00	1.50	3.25	AS3235	6 Cyl.	STD
						1.50	3.43	2M4946004		0.10
						3.00	3.81	2M5094010		0.25
								2M5094020		0.50
								2M5094030		0.75
								2M5094040		1.00
								2M5094060		1.50
91.4cu. in.	1500	4	1971-76	91 Plymouth Cricket	86.13	2.00	4.04	AS3236	4 Cyl.	STD
						2.00	4.06	674030		0.75
						4.00	4.62	674040		1.00
								AS3237		STD
								2C674030		0.75
								2C674040		1.00
G64B		4	1992	146cu. in. Vin:T Mitsubishi G64B	86.50	1.50	3.89	AS3238	4 Cyl.	STD
						1.50	3.45	2C4638010		0.25
						4.00	3.68	2C4638020		0.50
								2C4638030		0.75
								2C4638040		1.00
146cu. in.		4	1993-05	Mitsubishi RDS2, 4G64	86.50	1.20	3.33	AS3239	4 Cyl.	STD
						1.50	3.45	2C4780020		0.50
						2.80	2.79	2C4780030		0.75
								2C4780040		1.00
								2C4780060		1.50
4G64		4	1993-96	146cu. in. Vin:T Mitsubishi 4G64	86.50	1.20	3.33	AS3240	4 Cyl.	STD
						1.50	3.45	2C4783010		0.25
						3.00	2.54	2C4783020		0.50
								2C4783030		0.75
								2C4783040		1.00
								2C4783060		1.50
135cu. in.		4	1982-93	Chry. Turbo	87.50	1.50	4.11	AS3241	4 Cyl.	STD
153cu. in.			1982-93	Chry. Turbo		1.50	3.28	2M4206020		0.50
						4.00	4.24	2M4206030		0.75
								2M4206040		1.00
								2M4206060		1.50
135cu. in.		4	1985-95	Chry. Shallow Oil Ring Groove	87.50	1.50	4.11	AS3242	4 Cyl.	STD
153cu. in.			1986-95	Chry. Shallow Oil Ring Groove		1.50	3.28	4222020		0.50
						4.00	1.27	4222030		0.75
								4222040		1.00
								4222060		1.50
								AS3243		STD
								2C4222020		0.50
								2C4222030		0.75
								AS3244		STD
								2M4222010		0.25
								2M4222020		0.50
								2M4222030		0.75
								2M4222040		1.00
								2M4222060		1.50

										
CHRYSLER-INCLUDES CHRYSLER, DESOTO, DODGE & PLYMOUTH										
135cu. in.	2429	4	1992-97	16 Valve Turbo	87.50	1.50	3.25	AS3245	4 Cyl.	STD
148cu. in.	2429		1995-97			1.50	3.28	AS3245010		0.50
						3.00	3.30	AS3245020		0.75
								AS3245030		1.00
121cu. in.		4	1995-05	DOHC/SOHC L4 Vin: C,F	87.50	1.20	3.53	AS3246	4 Cyl.	STD
						1.20	3.33	AS3246010		0.25
						3.00	3.94	AS3246020		0.50
								AS3246030		0.75
								AS3246040		1.00
								AS3246050		1.50
153cu. in.		4	1994-97	Chry. Turbo Shallow Oil Ring Groove	87.50	1.50	4.11	AS3247	4 Cyl.	STD
						1.50	3.28	AS3247010		0.50
						4.00	3.94	AS3247020		0.75
								AS3247030		1.00
								AS3247040		1.50
148cu. in.	2429	4	1998-10	Vin: B,G,X,1 Incl. Turbo	87.50	1.20	3.53	AS3248	4 Cyl.	STD
						1.50	3.28	AS3248010		0.25
						3.00	3.81	AS3248020		0.50
								AS3248030		0.75
								AS3248040		1.00
146cu. in.	2429	4	2004-08	Turbo L4, Vin: E w/2.5mm oil grv	87.50	1.20	3.53	AS3249	4 Cyl.	STD
						1.50	3.28	AS3249010		0.50
						2.50	2.92	AS3249020		0.75
								AS3249030		1.00
135cu. in.		4	1981-85	Chry., Dodge, Plymouth	87.50	1.50	4.11	AS3250	4 Cyl.	STD
153cu. in.			1986	Chry., Dodge Deep Oil Ring Groove		1.50	3.28	AS3250010		0.25
						4.00	4.24	AS3250020		0.50
								AS3250030		0.75
								AS3250040		1.00
								AS3250050		1.50
								AS3251		STD
								AS3251010		0.25
								AS3251020		0.50
								AS3251030		0.75
								AS3251040		1.00
								AS3251050		1.50
								AS3252		STD
								AS3252010		0.25
								AS3252020		0.50
								AS3252030		0.75
								AS3252040		1.00
								AS3252050		1.50
144cu. in.		4	2006-15	Vin: B,F,K World Engine	88.00	1.20	3.33	AS3253	4 Cyl.	STD
						1.20	3.33	AS3253010		0.50
						2.00	2.79	AS3253020		0.75
								AS3253030		1.00
6G72	2972	6	1987-04	181cu. in. Vin: H,V Dodge Mini Van, Mitsubishi 6G72 SOHC,	91.10	1.50	4.04	AS3254	6 Cyl.	STD
						1.50	4.06	AS3254010		0.25
						4.00	3.30	AS3254020		0.50
								AS3254030		0.75
								AS3254040		1.00
								AS3254050		1.50
								AS3255		STD
								AS3255010		0.25
								AS3255020		0.50
								AS3255030		0.75
								AS3255040		1.00
								AS3255050		1.50
181cu. in.		6	1991-05	Vin: V Dodge 6G72, Stealth Incl. Turbo, DOHC	91.10	1.20	3.73	AS3256	6 Cyl.	STD
						1.50	4.06	AS3256010		0.50
						3.00	2.92	AS3256020		0.75
								AS3256030		1.00
								AS3256040		1.50

										
GC	CYL/ENG							PART#	CYL/SET	MM
CHRYSLER-INCLUDES CHRYSLER, DESOTO, DODGE & PLYMOUTH										
4G54B	4	1978-83	156cu. in. Chry. Thru March 1983	91.10	2.00	3.71		AS3257	4 Cyl.	STD
					2.00	3.99		AS3257010		0.25
					4.00	3.30		AS3257020		0.50
								AS3257030		0.75
								AS3257040		1.00
								AS3257050		1.50
								AS3258		STD
								AS3258010		0.25
								AS3258020		0.50
								AS3258030		0.75
								AS3258040		1.00
								AS3258050		1.50
								AS3259		STD
								AS3259010		0.25
								AS3259020		0.50
								AS3259030		0.75
								AS3259040		1.00
								AS3259050		1.50
4G54T	4	1983-89	156cu. in. Chry. April 1983-89 Incl. Turbo Shallow Oil Ring Groove	91.10	1.50	3.58		AS3260	4 Cyl.	STD
					1.50	4.06		AS3260010		0.25
					4.00	3.81		AS3260020		0.50
								AS3260030		0.75
								AS3260040		1.00
								AS3260050		1.50
								AS3261		STD
								AS3261010		0.25
								AS3261020		0.50
								AS3261030		0.75
								AS3261040		1.00
								AS3261050		1.50
197cu. in.	6	1998-01	Eng, V-6 Concorde, Intrepid Vin: J	92.00	1.20	3.73		AS3262	6 Cyl.	STD
					1.50	3.78		AS3262010		0.50
					3.00	3.18		AS3262020		0.75
								AS3262030		1.00
201cu. in.	6	1988-97	Chry., Dodge, Plymouth	93.00	1.50	3.48		AS3263	6 Cyl.	STD
226cu. in.		1999-11	Vin: K		1.50	3.78		AS3263010		0.50
					3.00	3.94		AS3263020		0.75
								AS3263030		1.00
								AS3263040		1.50
								AS3264		STD
								AS3264010		0.25
								AS3264020		0.50
								AS3264030		0.75
								AS3264040		1.00
								AS3264050		1.50
182cu. in.	6	1990-91	Renault	93.00	1.75	4.09		AS3265	6 Cyl.	STD
					1.75	4.11				
					3.50	4.24				
285cu. in.	8	1999-07	Aspen Vin: N,P	93.00	1.50	3.48		AS3266	8 Cyl.	STD
					1.50	3.78		AS3266010		0.25
					3.00	3.94		AS3266020		0.50
								AS3266030		0.75
								AS3266040		1.00
								AS3267		STD
								AS3267010		0.25
								AS3267020		0.50
								AS3267030		0.75
								AS3267040		1.00
201cu. in.	6	1998-09	Vin: G,R,3 Shallow Top Grv/ Shallow Oil Grv.	93.00	1.50	3.45		AS3268	6 Cyl.	STD
					1.50	3.78		AS3268010		0.50
					3.00	3.81		AS3268020		0.75
								AS3268030		1.00
								AS3268040		1.50

										
CHRYSLER-INCLUDES CHRYSLER, DESOTO, DODGE & PLYMOUTH										
285cu. in.		8	2008-13	Vin: P (lex fuel) Aspen, Dakota, Ram	93.00	1.20	3.61	AS3269	8 Cyl.	STD
						1.50	3.78	AS3269010		0.25
						2.50	2.79	AS3269020		0.50
								AS3269030		0.75
								AS3269040		1.00
325cu. in.		8	1957-58	Dodge	93.66	2.00	4.42	AS3270	8 Cyl.	STD
						2.00	4.45	AS3270010		0.75
						4.75	4.62			
277 C.I.D.		8	1956-57	4.5L P29 Plymouth	95.25	2.00	4.47	AS3271	8 Cyl.	STD
						2.00	4.50	AS3271010		0.25
						4.75	1.27	AS3271020		2.50
								AS3271030		0.50
								AS3271040		0.75
								AS3271050		1.00
								AS3271060		1.50
								AS3271070		2.00
								AS3272		STD
								AS3272010		0.25
								AS3272020		0.50
								AS3272030		0.75
								AS3272040		1.00
								AS3272050		1.50
								AS3273		STD
								AS3273010		0.25
								AS3273020		2.50
								AS3273030		0.50
								AS3273040		0.75
								AS3273050		1.00
								AS3273060		1.50
								AS3273070		2.00
220cu. in.		6	2011-14	Vin: G	96.00	1.20	3.12	AS3274	6 Cyl.	STD
						1.20	3.81	AS3274010		0.50
						2.00	2.92	AS3274020		0.75
								AS3274030		1.00
214cu. in.		6	1993-95		96.00	1.50	3.94	AS3275	6 Cyl.	STD
231cu. in.			1991-02	Dodge, Plymouth Vin: L,6		1.50	3.73	AS3275010		0.25
						3.00	3.81	AS3275020		0.50
								AS3275030		0.75
								AS3275040		1.00
								AS3275050		1.50
								AS3276		STD
								AS3276010		0.50
								AS3276020		0.75
								AS3276030		1.00
								AS3276040		1.50
								AS3277		STD
								AS3277010		0.50
215cu. in.	3952	6	1996-10	Vin: G,K,V	96.00	1.20	3.73	AS3278	6 Cyl.	STD
231cu. in.			2001-10	Vin: L,P,1		1.50	3.73	AS3278010		0.25
241cu. in.	3952		2007-11	Vin: X		3.00	3.81	AS3278020		0.50
								AS3278030		0.75
								AS3278040		0.10
								AS3278050		1.00
								AS3278060		1.50
								AS3279		STD
								AS3279010		0.25
								AS3279020		0.50
								AS3279030		0.75
								AS3279040		1.00
341cu. in.		8	1957	Desoto Firelite, Firedome S25, S26, Adventurer	96.05	2.00	4.47	AS3280	8 Cyl.	STD
						2.00	4.22			
						4.75	1.27			

										
CHRYSLER-INCLUDES CHRYSLER, DESOTO, DODGE & PLYMOUTH										
313cu. in.	8	1957-65	Canada	98.43	2.00	4.62		AS3281	8 Cyl.	STD
					2.00	4.65		AS3281010		0.25
					4.75	4.88		AS3281020		0.50
								AS3281030		0.75
								AS3281040		1.00
								AS3281050		1.50
								AS3281060		2.00
								AS3282		STD
								AS3282010		0.25
								AS3282020		0.50
								AS3282030		0.75
								AS3282040		1.00
								AS3282050		1.50
								AS3282060		2.00
								AS3283		STD
								AS3283010		0.25
								AS3283020		0.50
								AS3283030		0.75
								AS3283040		1.00
								AS3283050		1.50
								AS3283060		2.00
348cu. in.	8	2003-08	Hemi Vin; D,H,2	99.50	1.50	3.96		AS3284	8 Cyl.	STD
					1.50	4.24		AS3284010		0.25
					3.00	2.79		AS3284020		0.50
								AS3284030		0.75
								AS3284040		1.00
								AS3285		STD
								AS3285010		0.25
								AS3285020		0.50
								AS3285030		0.75
								AS3285040		1.00
								AS3285050		1.50
345cu. in.	8	2009-14	EZC, EZH, Hemi Vin: T Challenger, Charger, 300	99.50	1.20	3.61		AS3286	8 Cyl.	STD
					1.20	4.37		AS3286010		0.50
					2.00	2.92		AS3286020		0.75
								AS3286030		0.10
								AS3286040		1.00
488cu. in.	10	1994-96	Dodge Viper, RT/10, MPI, MT	101.60	1.50	3.86		AS3287	10 Cyl.	STD
					1.50	4.37		AS3287010		0.50
					3.00	3.81		AS3287020		0.75
								AS3287030		1.00
								AS3287040		1.50
370cu. in.	8	2005-10	Vin: W,3	103.00	1.50	4.09		AS3288	8 Cyl.	STD
					1.50	4.37		AS3288010		0.25
					3.00	3.18		AS3288020		0.50
								AS3288030		0.75
								AS3288040		1.00
								AS3288050		1.50
515cu. in.	10	2008-13	Dodge Viper, SRT vin: N, Z	103.00	1.50	4.09		AS3289	10 Cyl.	STD
					1.50	4.37		AS3289010		0.50
					3.00	3.18		AS3289020		0.75
								AS3289030		1.00
LD3H, LD3L	8	1958	350cu. in. LD3H, LD3L Dodge 102 series	103.19	2.00	4.85		AS3290	8 Cyl.	STD
					2.00	4.88		AS3290010		0.75
					4.75	1.27		AS3290020		1.00
								AS3290030		1.50
								AS3291		STD
								AS3291010		1.00
								AS3291020		1.50
								AS3292		STD
								AS3292010		0.75
								AS3292020		1.00

										
CHRYSLER-INCLUDES CHRYSLER, DESOTO, DODGE & PLYMOUTH										
392cu. in.	8	2011-14	Hemi OHV FI Vin; J	104.00	1.20	3.61		AS3293	8 Cyl.	STD
					1.20	4.32		AS3293010		0.50
					2.00	3.30		AS3293020		0.75
								AS3293030		1.00
CHRYSLER-PERFORMANCE										
	1997	4	1994-00	87.50	1.20	3.53		AS3301	4 Cyl.	STD
					1.20	3.33		AS3301010		0.25
					3.00	3.94		AS3301020		0.50
								AS3301030		0.75
								AS3301040		1.00
								AS3301050		1.50
390 cu. in.	8		Chry.	99.31	1.60	4.67		AS3302	8 Cyl.	STD
					1.60	4.70		AS3302010		0.75
					4.75	4.75		AS3302020		1.00
								AS3302030		1.50
292 cu. in.	8	1956-58	Chry. Low Tension Oil Ring	101.60	2.00	4.78		AS3303	8 Cyl.	STD
354 cu. in.		1971-75	Chry. Low Tension Oil Ring		2.00	4.80		AS3303010		0.75
360 cu. in.		1957-58	Chry. Low Tension Oil Ring		4.75	3.81		AS3303020		1.00
								AS3303030		1.13
292 cu. in.	8	1971-75	Chry.	101.60	2.00	4.78		AS3304	8 Cyl.	STD
360 cu. in.		1957-58	Chry.		2.00	4.80		AS3304010		0.13
					4.75	5.00		AS3304020		0.50
								AS3304030		0.63
								AS3304040		0.75
								AS3304050		0.88
								AS3304060		1.00
								AS3304070		1.13
								AS3304080		1.50
								AS3304090		1.63
360 cu. in.	8		Chry. Racing Piston	101.60	1.60	4.78		AS3305	8 Cyl.	STD
					1.60	4.80		AS3305010		0.75
					3.00	4.75		AS3305020		0.88
								AS3305030		1.00
								AS3305040		1.50
	8	1971-75		101.60	1.60	4.78		AS3306	8 Cyl.	STD
					1.60	4.80		AS3306010		0.13
					3.00	4.75		AS3306020		0.25
								AS3306030		0.50
								AS3306040		0.63
								AS3306050		0.75
								AS3306060		0.88
								AS3306070		1.00
								AS3306080		1.13
								AS3306090		1.50
								AS3306100		1.63
	8			101.60	2.00	4.85		AS3307	8 Cyl.	STD
					2.00	4.80		AS3307010		0.75
					4.75	4.88				
	8			101.60	1.60	4.78		AS3308	8 Cyl.	STD
					1.60	4.80		AS3308010		0.75
					4.75	4.88		AS3308020		1.00
								AS3308030		1.50
								AS3309		STD
								AS3309010		0.50
								AS3309020		0.75
								AS3309030		0.88
								AS3309040		1.00
								AS3309050		1.50
	8			101.60	1.50	4.78		AS3310	8 Cyl.	STD
					1.50	4.37		AS3310010		0.75
					3.00	3.81				

										
CHRYSLER-PERFORMANCE										
360 cu. in.	8			Chry. contains Steel Moly top rings	101.60	1.20	4.09	AS3311	8 Cyl.	STD
						1.20	4.37	AS3311010		0.75
						3.00	3.86	AS3311020		0.88
								AS3311030		1.00
								AS3311040		1.13
								AS3311050		1.50
								AS3311060		1.63
360 cu. in.	8			Chry contains Steel Moly top ring Napier ductile iron 2nd ring	101.60	1.20	4.09	AS3312	8 Cyl.	STD
						1.20	4.37	AS3312010		0.13
						3.00	3.86	AS3312020		0.63
								AS3312030		0.88
								AS3312040		1.13
								AS3312050		1.38
								AS3312060		1.50
								AS3312070		1.63
								AS3312080		1.75
360 cu. in.	8			Chry. Racing Piston w/napier 2nd ring Contains 1/8" Oil Rings	101.60	1.60	4.78	AS3313	8 Cyl.	STD
						1.60	4.42	AS3313010		0.13
						3.00	4.75	AS3313020		0.75
								AS3313030		0.88
								AS3313040		1.13
								AS3313050		1.63
340 cu. in.	8	1968-73		Chry., Dodge, Trans-Am Standard Size Piston	102.62	2.00	4.78	AS3314	8 Cyl.	STD
						2.00	4.83			
						4.75	5.00			
350 cu. in.	8	1958		Plymouth	103.19	2.00	4.80	AS3315	8 Cyl.	STD
						2.00	4.88	AS3315010		0.88
						4.75	5.00			
361 cu. in.	8	1961-64		Chry.	104.78	2.00	4.88	AS3316	8 Cyl.	STD
						2.00	4.95	AS3316010		0.63
						4.75	5.21	AS3316020		0.75
								AS3316030		0.88
								AS3316040		1.00
								AS3316050		1.13
								AS3316060		0.13
								AS3316070		1.50
								AS3316080		1.63
	8				104.78	2.00	4.93	AS3317	8 Cyl.	STD
						2.00	4.95	AS3317010		0.75
						4.75	5.21			
	8				104.78	1.60	4.93	AS3318	8 Cyl.	STD
						1.60	4.95	AS3318010		0.75
						4.75	5.21			
								AS3319		STD
								AS3319010		0.75
								AS3319020		1.00
361 cu. in.	8			Chry. contains Steel Moly top rings	104.78	1.20	4.09	AS3320	8 Cyl.	STD
						1.20	4.37	AS3320010		0.13
						3.00	3.81	AS3320020		1.50
361 cu. in.	8			Chry. w/napier 2nd ring	104.78	1.20	4.09	AS3321	8 Cyl.	STD
						1.20	4.32	AS3321010		0.13
						3.00	3.81	AS3321020		0.25
								AS3321030		0.38
								AS3321040		0.63
								AS3321050		0.88
								AS3321060		1.13

										
CHRYSLER-PERFORMANCE										
426 cu. in.	8	1961-72	383, Engs. Chry. Low Tension Oil Ring	107.95	2.00	5.05		AS3322	8 Cyl.	STD
					2.00	5.08		AS3322010		0.75
					4.75	3.81		AS3322020		1.50
426 cu. in.	8	1961-72	383, Engs. Chry. Low Tension Oil Ring	107.95	1.60	5.05		AS3323	8 Cyl.	STD
					1.60	5.08		AS3323010		0.75
					4.75	3.81		AS3323020		0.88
								AS3323030		1.50
								AS3323040		1.63
								AS3323050		3.13
426 cu. in.	8	1961-72	383, Engs. Chry.	107.95	2.00	5.05		AS3324	8 Cyl.	STD
426 cu. in.			Chry. Hemi-Head Street Model		2.00	5.08		AS3324010		0.13
					4.75	5.00		AS3324020		0.75
								AS3324030		0.88
								AS3324040		1.00
								AS3324050		1.50
								AS3324060		1.63
426 cu. in.	8	1961-72	383, Engs.	107.95	1.60	5.05		AS3325	8 Cyl.	STD
426 cu. in.			Chry. Hemi-Head Street Model		1.60	5.08		AS3325010		0.13
					4.75	5.00		AS3325020		0.75
								AS3325030		0.88
								AS3325040		1.00
								AS3325050		1.50
								AS3325060		1.63
								AS3325070		3.13
	8			107.95	1.60	5.05		AS3326	8 Cyl.	STD
					1.60	5.08		AS3326010		1.50
					4.75	5.00				
	8		383, 426 Engs. Chry. contains Steel Moly top rings	107.95	1.09	4.09		AS3327	8 Cyl.	STD
					1.09	4.11		AS3327010		0.88
					3.00	3.86				
426 cu. in.	8		383, Engs. Chry w/Napier ductile iron 2nd ring	107.95	1.60	5.05		AS3328	8 Cyl.	STD
					1.60	4.62		AS3328010		0.13
					4.75	5.00		AS3328020		0.75
								AS3328030		0.88
								AS3328040		1.00
								AS3328050		1.50
								AS3328060		1.63
								AS3328070		3.13
426 cu. in.	8		383, Engs. Chry. contains Steel Moly top ring	107.95	1.09	4.09		AS3329	8 Cyl.	STD
					1.60	5.08		AS3329010		0.88
					4.75	5.00		AS3329020		1.63
	8			107.95	1.60	4.75		AS3330	8 Cyl.	STD
					1.60	4.62		AS3330010		1.63
					4.75	3.81				
440 cu. in.	8		Chry. Race Low Tension Oil Ring	109.73	1.60	5.13		AS3331	8 Cyl.	STD
					1.60	5.16		AS3331010		0.75
					4.75	3.81		AS3331020		0.88

										
CHRYSLER-PERFORMANCE										
440 cu. in.	8	1966-75	Chry., Dodge, Plymouth - Performance	109.73	1.60	5.13		AS3332	8 Cyl.	STD
					1.60	5.16		AS3332010		0.13
					4.75	4.75		AS3332020		0.75
								AS3332030		0.88
								AS3332040		1.00
								AS3332050		1.13
								AS3332060		1.38
								AS3332070		1.50
								AS3332080		1.63
498 cu. in.	8			110.30	1.60	4.70		AS3333	8 Cyl.	STD
					1.60	5.16		AS3333010		0.03
					4.75	5.21				
CITROEN										
	1124	4	C15 Type AX11, N2/A3, N2/A4 N2/C9	72.00	1.50	2.82		AS3401	4 Cyl.	STD
					2.00	3.10		AS3401010		0.50
					3.00	3.30				
	1399		C2, C3, HDi diesel Pluriel, Xsara	73.70	2.50	3.25		AS3402	1 Cyl.	STD
					1.95	3.28		AS3402010		0.25
					2.50	3.33		AS3402020		0.50
	602	1968	602cc Dyane 6, 28, 33CV S.A.E., 35CV S.A.E., AMI-6	74.00	1.50	3.20		AS3403	2 Cyl.	STD
					2.00	3.23		AS3403010		1.00
					4.00	3.56				
9HZ, DV6TED4	1560	2004-08	Diesel Turbo DV6TED C3, C4, C5 HDi	75.00	3.00	2.97		AS3404	1 Cyl.	STD
					1.95	3.33		AS3404010		0.50
					2.50	3.33				
TU3F2, TU3FM		4	AX TU3F2, TU3FM	75.00	1.75	3.45		AS3405	4 Cyl.	STD
					2.00	3.48		AS3405010		0.25
					3.00	3.18		AS3405020		0.50
								AS3405030		0.75
	1222	4	Moteur G103, 60CH Din TC: 8, 2, GS7CV Berline Break	77.00	1.75	3.30		AS3406	4 Cyl.	STD
					2.00	3.38				
					4.00	3.94				
TU5 JP	1587	4	Saxo	78.50	1.50	3.38		AS3407	4 Cyl.	STD
	1600		(Peugeot)		1.50	3.40		AS3407010		0.25
					3.00	3.30		AS3407020		0.50
DW 8, DW 8 B, WJY, WJZ, 1868		1998-05	Diesel DW8, WJY, WJZ	82.20	2.00	3.56		AS3408	1 Cyl.	STD
					2.00	3.58		AS3408010		0.50
					3.00	3.68				
	4	1983-On	BX 19D, Diesel	83.00	2.00	3.53		AS3409	4 Cyl.	STD
					2.00	3.35		AS3409010		0.50
					3.00	3.30				
								AS3410	4 Cyl.	STD
								AS3410010		0.50
XU7JB (LFX) XU7JP(LFW, LFX, L6A)	1275	4	1993-02 BERLINGO, XANTIA, ZX	83.00	1.50	3.20		AS3411	4 Cyl.	STD
XU92C(D2A, D2C, D2F)			1986-97 BX BREAK, ZX		1.50	3.25				
XU9J1 (DFZ) XU9J2(D6A)										
XU9JA (DKZ)					4.00	3.43				

										
CITROEN										
XUD9BSD, XUD9BTF, XUD9SD SUD9TE, XUD9TF, XUD9UF	1905		1992-03	Turbo Diesel XUD9BSD, XUD9BTF, XUD9SD SUD9TE, XUD9TF, XUD9UF	83.00	3.50	3.61	AS3412	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
XUD9BSD, XUD9BTF, XUD9SD XUD9TE, XUD9TF, DHV, DHW, DHX, DHY	1905		1992-03	Turbo Diesel XUD9BSD, XUD9BTF, XUD9SD XUD9TE, XUD9TF, DHV, DHW, DHX, DHY	83.00	3.00	3.61	AS3413	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
	1905		1983-02	Diesel DJY, D9B, XUD9A	83.00	2.00	3.61	AS3414	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
DW 10 ATED, DW 10 ATED 4, DW 10 TD, RHY, RHZ, DW 12 TED4	1999		1999-08	Turbo Diesel C5, DW10, HDi Berlingo, Xsara, Zantia	85.00	3.50	3.71	AS3415	1 Cyl.	STD
	2179		2001-04	Turbo Diesel DW12TED HDi Break, Estate		2.00	3.73	AS3415010	1 Cyl.	0.60
						3.00	3.94			
	1995	4	1979-On	829-AS CX2000 Athena, Relex GT, Break, Familiare Paklas, TRE	88.00	1.75	4.14	AS3416	4 Cyl.	STD
						2.00	3.96			
						4.00	4.24			
								AS3417		STD
								AS3417010		0.25
	4		1966-75	O.H.V.	90.00	2.00	3.99	AS3418	4 Cyl.	STD
						2.00	4.01			
						5.00	4.24			
	2500	4	1984-On	C350	93.00	2.50	4.09	AS3419	4 Cyl.	STD
						2.00	4.11	AS3419010		0.50
						4.00	4.14	AS3419020		0.75
	2798		1992-02	Diesel 8140.63(F28D)	94.40	3.00	4.06	AS3420	1 Cyl.	STD
						2.00	4.09			
						2.50	3.33			
	2798		2000-06	Turbo Diesel HDi 8140 w/2.5mm Keystone top grv.	94.40	2.50	4.06	AS3421	1 Cyl.	STD
						2.00	4.09			
						2.50	3.33			
CLARK EQUIPMENT										
N62	4			Continental Engine 5 Clarkette, Truck Loader	60.33	2.38	2.79	AS3501	4 Cyl.	STD
						2.38	2.82			
						4.75	1.27			
								AS3502		STD
								AS3502010		0.75

										
CLARK EQUIPMENT										
	4			40 Yardlift, Carloader	76.20	3.18	3.45	AS3503	4 Cyl.	STD
						3.18	3.48			
						3.18	3.48			
						6.35	4.39			
								AS3504		STD
	4			D155G	92.08	2.38	4.06	AS3505	4 Cyl.	STD
						2.38	4.09			
						2.38	4.09			
						4.75	4.62			
								AS3506	4 Cyl.	STD
CLIMAX-ARROW										
				C66, CE66 5 Ring Piston 4 Comp & 1 Oil Ring	146.05	6.35	5.87	AS3601	1 Cyl.	STD
						6.35	5.89			
						6.35	5.89			
						6.35	3.40			
						6.35	5.89			
								AS3602		STD
CLINTON										
				VS100, 300, A300, 350, 500, 700, B700, C700, VS700, 2100, VS2100	50.80	2.38	2.39	AS3701	1 Cyl.	STD
						2.38	2.41			
						4.75	1.14			
COCKSHUTT										
	4			Buda 4B153 5 Ring Piston	87.31	2.38	3.61	AS3801	4 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	1.27			
						4.75	4.14			
								AS3802		STD
	4			Buda 4B153 Gas 30 4 Ring Piston	87.31	3.18	4.11	AS3803	4 Cyl.	STD
				F162 Gas Continental 540		3.18	3.94	AS3803010		1.50
						3.18	3.94			
						4.75	4.50			
								AS3804		STD

										
COCKSHUTT										
6BD230 Buda Engine		6		40 Diesel	87.31	3.18	4.11	AS3805	6 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	2.54			
						4.75	4.14			
		6		Buda GB230 5 Ring Piston	87.31	2.38	3.61	AS3806	6 Cyl.	STD
						3.18	3.94	AS3806010		1.50
						3.18	3.94			
						4.75	1.27			
						4.75	4.14			
								AS3807		STD
		4		F162 Gas Continental 540	87.31	2.39	3.61	AS3808	4 Cyl.	STD
						2.39	4.14	AS3808010		0.50
						2.39	4.14	AS3808020		1.00
						6.00	4.50	AS3808030		1.50
								AS3809		STD
6BD230 Buda Engine		6		40 5 Ring Piston	88.90	3.18	3.96	AS3810	6 Cyl.	STD
				Gould G383HCH Sleeve Assembly		3.18	3.66			
						3.18	3.66			
						4.75	1.27			
						4.75	3.99			
		6		770 Gas & Diesel	88.90	3.18	3.96	AS3811	6 Cyl.	STD
						3.18	3.66			
						3.18	3.66			
						4.75	4.24			
		6		248 Gas 1600	92.08	2.38	4.06	AS3812	6 Cyl.	STD
						2.38	4.09	AS3812010		0.50
						4.75	1.27	AS3812020		0.75
								AS3813		STD
		4		DD198 Diesel Hercules 550	92.08	2.38	4.06	AS3814	4 Cyl.	STD
				550 Gas; 660 Gas & Diesel		2.38	4.09			
						2.38	4.09			
						4.75	4.62			
								AS3815	4 Cyl.	STD
		6		Buda 6B273 Gas 50 4 Ring Piston	95.25	3.18	3.91	AS3816	6 Cyl.	STD
				880 Gas & Diesel; 1600 Diesel		3.18	3.94			
						3.18	3.94			
						4.75	4.45			

										
COCKSHUTT										
	6			DD298 Diesel Hercules 570	95.25	3.00	4.17	AS3817	6 Cyl.	STD
						2.38	4.50			
						2.38	4.50			
						4.75	2.57			
						4.75	4.19			
				GO198 Gas Hercules 550	95.25	2.38	4.47	AS3818	1 Cyl.	STD
				GO298 Gas Hercules 57		3.18	3.94			
						4.75	1.27			
						4.75	4.19			
1800	6			Diesel	98.43	2.38	4.62	AS3819	6 Cyl.	STD
						2.38	3.99			
						2.38	3.99			
						4.75	4.45			
				D339 Hercules 570 Super	101.60	3.00	4.78	AS3820	1 Cyl.	STD
						2.38	4.80			
						2.38	4.80			
						4.75	2.64			
						4.75	4.37			
CONTINENTAL										
N62, N4062	4			Continental Engine	60.33	2.38	2.79	AS3901	4 Cyl.	STD
						2.38	2.82			
						4.75	1.27			
								AS3902		STD
								AS3902010		0.75
	4			AU10, AU10R, Y69A	66.68	2.38	3.35	AS3903	4 Cyl.	STD
						2.38	3.15			
						4.75	1.27			
								AS3904		STD
								AS3904010		0.50
								AS3904020		0.75
								AS3904030		1.00
	6			F186, F6186	76.20	3.18	3.45	AS3905	6 Cyl.	STD
						3.18	3.48			
						3.18	3.48			
						6.35	4.39			
	4			C4113, F124, F4124, LF124, PF124	76.20	3.18	3.45	AS3906	4 Cyl.	STD
						3.18	3.48			
						3.18	3.48			
						6.35	4.39			
								AS3907		STD
	4			F124, F4124, LF124, PF124	76.20	3.18	3.45	AS3908	4 Cyl.	STD
						3.18	3.48			
						3.18	3.48			
						4.75	1.27			

										
CONTINENTAL										
	6			FS218	82.55	2.38	3.89	AS3909	6 Cyl.	STD
						2.38	3.91	AS3909010		1.00
						4.00	4.39	AS3909020		1.50
						4.00	3.91			
								AS3910		STD
	4			Z129, ZA129	82.55	3.18	3.89	AS3911	4 Cyl.	STD
						3.18	3.78			
						3.18	3.78			
						4.75	4.39			
	6			F226, F6226, FO6226 Checker Cab	84.14	2.38	3.99	AS3912	6 Cyl.	STD
						2.38	4.01	AS3912010		1.00
						4.00	4.39			
						4.00	4.01			
	6			F226, F227 Cont. Piston #F227A4061E	84.14	2.00	3.99	AS3913	6 Cyl.	STD
						2.38	4.01			
						2.38	4.01			
						6.00	4.39			
	4			Z134	84.14	3.18	3.81	AS3914	4 Cyl.	STD
						3.18	3.84			
						3.18	3.84			
						4.75	4.39			
	4			Z134 Increase Bore	85.73	2.38	4.04	AS3915	4 Cyl.	STD
						3.18	3.89			
						3.18	3.89			
						6.00	4.39			
	4			G157 Al Piston GD157	85.73	3.18	4.04	AS3916	4 Cyl.	STD
						3.18	3.89			
						3.18	3.89			
						6.35	4.32			
	4			Z129, Z134 Increase Bore	85.73	2.38	4.04	AS3917	4 Cyl.	STD
						2.38	4.06			
						2.38	4.06			
						4.75	1.27			
C143, C400, C4143, G157	4			4 Ring Piston CI Piston< 7-145 Aluminum Piston	85.73	3.18	4.04	AS3918	4 Cyl.	STD
Z145, Z134	4			Increase Bore Set		3.18	3.89			
						3.18	3.89			
						4.75	1.27			
	6			A415, S244	87.31	2.38	3.61	AS3919	6 Cyl.	STD
						2.38	4.14			
						4.00	4.50			
						4.00	4.14			
								AS3920		STD

										
CONTINENTAL										
		4		F162, F4162, LF162, PF162	87.31	3.18	4.11	AS3921	4 Cyl.	STD
						3.18	3.94	AS3921010		1.50
						3.18	3.94			
						4.75	4.50			
								AS3922		STD
		6		25B, A6244, F162 Late 4 Ring Piston	87.31	2.38	3.61	AS3923	6 Cyl.	STD
						2.38	4.14	AS3923010		0.50
						2.38	4.14	AS3923020		1.00
						6.35	4.50	AS3923030		1.50
								AS3924		STD
		4		F162, F4162, F4162A, LF162, PF162	87.31	2.38	3.61	AS3925	4 Cyl.	STD
						2.38	4.14	AS3925010		0.50
						2.38	4.14	AS3925020		1.00
						6.35	4.50	AS3925030		1.50
								AS3926		STD
		4		F163 Also Fits Service Piston for F162	87.31	2.00	4.11	AS3927	4 Cyl.	STD
						2.38	4.14	AS3927010		0.50
						2.38	4.14	AS3927020		0.75
						6.35	4.50	AS3927030		1.50
								AS3928		STD
								AS3928010		0.75
								AS3928020		1.00
								AS3929		STD
								AS3929010		1.00
		6		F245 Also Fits Service Piston for F244	87.31	2.00	4.11	AS3930	6 Cyl.	STD
						2.38	4.14	AS3930010		0.50
						2.38	4.14	AS3930020		0.75
						6.35	4.50	AS3930030		1.50
								AS3931		STD
								AS3931010		0.75
								AS3931020		1.00
M6253, 39B		6			88.90	3.18	3.96	AS3932	6 Cyl.	STD
						3.18	3.66			
						3.18	3.66			
						4.75	1.27			
						4.75	3.99			

										
CONTINENTAL										
K6252		6			88.90	3.18	3.96	AS3933	6 Cyl.	STD
						3.18	3.66			
						3.18	3.66			
						4.75	4.24			
		4		G176	90.88	3.18	4.27	AS3934	4 Cyl.	STD
						3.18	4.04			
						3.18	4.04			
						6.35	4.75			
				TM13, 20, 27 Litre LP or Natural Gas	91.00	2.00	4.32	AS3935	1 Cyl.	STD
						2.00	3.68	AS3935010		0.50
						4.00	4.88	AS3935020		0.75
								AS3935030		1.00
				TMD13, 20, 27 Litre Diesel	91.00	2.50	3.81	AS3936	1 Cyl.	STD
						2.00	3.68	AS3936010		0.50
						4.00	4.19	AS3936020		0.75
		4		E201 Increase Bore - M & W Assembly SP39 *	95.25	3.18	4.17	AS3937	4 Cyl.	STD
				GD193		3.18	3.94			
						3.18	3.94			
						6.35	4.85			
		6		K6290	95.25	3.18	3.91	AS3938	6 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	4.45			
		4		G193, G4193, GD193A Special Note: .024 Spacer packed with set for .121 Top groove.	95.25	2.38	4.47	AS3939	4 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						6.35	4.88			
								AS3940		STD
		4		G193 Cont. Piston #G193A3601, Zollner Piston 5092B	95.25	2.00	4.47	AS3941	4 Cyl.	STD
						2.38	4.50	AS3941010		0.75
						2.38	4.50			
						4.75	1.27			
		4		J4	95.25	4.75	3.91	AS3942	4 Cyl.	STD
						4.75	3.94			
						4.75	3.94			
						4.75	1.27			
		6		38B, M290, M6290, PM290 4 Ring Piston	95.25	3.18	4.17	AS3943	6 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						6.35	4.88			

										
CONTINENTAL										
		4		G206 Special Note: .024 Spacer packed with set for .121 Top groove.	96.84	2.38	4.55	AS3944	4 Cyl.	STD
				E223		3.18	4.24			
				ED223 Special Note: .024 Spacer packed with Set for .121 Top Groove		3.18	4.24			
						6.35	4.88			
		4		E242, EE242-10	98.43	2.38	4.62	AS3945	4 Cyl.	STD
						3.18	4.32			
						3.18	4.32			
						6.35	4.88			
		4		H260	98.43	3.18	4.29	AS3946	4 Cyl.	STD
						3.18	4.32			
						3.18	4.32			
						6.35	4.88			
		8		327	101.60	2.00	4.78	AS3947	8 Cyl.	STD
						2.00	4.80	AS3947010		0.25
						4.75	4.88	AS3947020		0.50
								AS3947030		0.75
								AS3947040		1.00
								AS3947050		1.50
								AS3947060		1.75
								AS3947070		2.00
								AS3947080		2.50
								AS3948		STD
								AS3948010		0.25
								AS3948020		0.50
								AS3948030		0.75
								AS3948040		1.00
								AS3948050		1.50
								AS3948060		1.75
								AS3948070		2.00
								AS3949		STD
								AS3949010		0.13
								AS3949020		0.25
								AS3949030		0.50
								AS3949040		0.75
								AS3949050		1.00
								AS3949060		1.50
								AS3949070		1.75
								AS3949080		2.00
								AS3949090		2.50
		6		40B, K6330, M330, M6330, PM330 Zollner Piston #514, 302 Series	101.60	3.18	4.39	AS3950	6 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						4.75	4.88			
						4.75	4.37			
		4		HD277	101.60	2.50	4.78	AS3951	4 Cyl.	STD
				HD277		3.18	4.11			
						3.18	4.11			
						6.35	2.59			
						4.75	4.37			
		4		H260 overbore using Piston A1103P	101.60	2.38	4.78	AS3952	4 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						6.35	4.88			
						6.35	4.24			

										
CONTINENTAL										
	6			40B, M330, M62330, M6330, PM330	101.60	3.18	4.39	AS3953	6 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						6.00	4.88			
CONTINENTAL EMSCO										
	4			JD382 5 Ring Piston	114.30	3.18	5.36	AS4001	4 Cyl.	STD
						3.18	4.85			
						3.18	4.85			
						6.35	2.90			
						4.75	4.85			
				C66, CE66 5 Ring Piston	146.05	6.35	5.87	AS4002	1 Cyl.	STD
						6.35	5.89			
						6.35	5.89			
						6.35	3.40			
						6.35	5.89			
								AS4003		STD
CORD										
164 cu. in.	6			1965-66 Corvair	87.31	1.60	3.91	AS4101	6 Cyl.	STD
						1.60	3.94	AS4101010		0.50
						3.00	4.50	AS4101020		0.75
								AS4101030		1.00
								AS4101040		1.50
								AS4102		STD
								AS4102010		0.50
								AS4102020		0.75
								AS4102030		1.00
								AS4102040		1.50
								AS4103		STD
								AS4103010		0.50
								AS4103020		0.75
								AS4103030		1.00
								AS4103040		1.50
CUMMINS										
				Compressor 12 cu. ft.	87.31	2.38	3.61	AS4201	1 Cyl.	STD
						2.38	4.14			
						4.75	1.27			
								AS4202		STD
				Compressor 13.2 cu. ft.	92.08	3.18	3.84	AS4203	1 Cyl.	STD
						3.18	3.86	AS4203010		0.25
						4.75	4.62			
								AS4204		STD
	6			6B & 6BT Turbo diesel 12 valve 5.9 Litre Standard Size OE Ref. #3802421 sups #3802230	102.00	3.00	4.29	AS4205	6 Cyl.	STD
						2.38	4.42	AS4205010		0.50
						4.00	3.66	AS4205020		0.75
								AS4205030		1.00

										
CUMMINS										
			4	B Series, 239cu.in. 4T-390 Turbo Diesel	102.00	3.00	4.29	AS4206	4 Cyl.	STD
						2.38	4.42			
						4.00	3.66			
			6	6BTA 359cu.in Turbo Diesel Intercooled 24V Standard Size OE Ref.#3804990/4089258	102.00	3.00	4.29	AS4207	6 Cyl.	STD
						2.39	4.37	AS4207010		1.00
						4.00	3.66	AS4207020		0.50
				4B & 4BT 239cu.in. Turbo Diesel Standard Size OE Ref. #3802750	102.00	3.00	4.40	AS4208	1 Cyl.	STD
						3.00	4.42	AS4208010		0.50
						4.00	4.32	AS4208020		1.00
				B Series, 359cu.in. Non Turbo, 12value Naturally Aspirated Standard Size OE Ref.#3802040	102.00	2.38	4.45	AS4209	1 Cyl.	STD
						2.38	4.45	AS4209010		0.50
						4.00	4.40	AS4209020		1.00
			6	J, JF, JN, JS, JT Series	104.78	3.16	4.50	AS4210	6 Cyl.	STD
				J, J6 95, 100 H.P.		3.16	4.52			
				JF, JF6 105, 110 H.P.; JN, JN6 125, 130 H.P.; JNS, * JNS6 165, 175 H.P.; JS, JS6 150, 160 H.P.; JS600		3.00	4.52			
				JT, JT6, JT10, JT15, JT20 175 H.P.-AS3803 38JT		4.75	5.56			
408cu. in.			6	ETJ Turbo Diesel Intercooled 24V Standard Size OE Ref. #4955366	107.00	2.87	4.42	AS4211	6 Cyl.	STD
						2.50	4.57	AS4211010		1.00
						3.46	4.00	AS4211020		
			6	HR, HR6 165, 175 H.P.; HR600, HRB1600, HRF, HRF6, IRB600 180 H.P.; HRF20, HRF6-20 180, 190 H.P.; HRS, HRS6 225, 240 H.P.	130.18	4.00	5.23	AS4212	6 Cyl.	STD
				HT6, NH, NH10, NH20 200 H.P.; NFT, NFT6 H.P.; NH220 220 H.P.; NH600		4.00	5.21			
				NHBS600 275 H.P.; NHE180 180 H.P.; NHE195 * 195 H.P.; NHHS, NHHS, NHR, NHR, NHR6 300, 320 H.P.; NHS, NHS6 275, 290 H.P.		4.00	5.21			
				NHS600, NRT, NRT6, NRT20 300 H.P.; NRT0, * NRT06 335, 375 H.P.; NT, NT6, NT20 250 H.P. NTO, NTO6 26 H.P.		6.35	5.77			
				NVH, NVH12 400, 450 H.P.; NVS, VT, VT12 600 H.P.						



          											
CUMMINS											
6BT		1			102	2.85	4.1	C1	AS4213		
					102	2.35	4.1	C2			
					102	4	3.1	O			
3802750		1			102	2.9	4.2	1	AS4214		
					102	2.85	4.2	2			
					102	4	3.16	O			
3802040	1				102	2.4	4.15	1	AS4215		
					102	2.4	4.15	2			
					102	4	3.1	O			
3802421	1				102	2.9	4.15	1	AS4216		
					102	2.35	4.15	2			
					102	4	3.1	O			
	1				114	3.4	4.6	C1	AS4217		
					114	3	4.6	C2			
					114	4	3.2	O			
6CT	1				114	3.4	4.5	C1	AS4218		
					114	2.85	4.6	C2			
					114	4	3.2	O			
3278723	1				117.47	2.95	4.6	1	AS4219		
					117.47	2.4	4.6	2			
					117.47	2.8	2.95	O			
3803977	1				125	3.05		1	AS4220		
					125	3.05		2			
					125	4		O			
L10	1				125	3.05	4.4	C1	AS4221		
					125	3.05	4.45	C2			
					125	4.75	3.4	O			
3803961	1				125	3.05	4.4	1	AS4222		
					125	3.05	4.5	2			
					125	4.75	2.8	O			
AR12098	1				130.18	3.68	4.85	1	AS4223		
					130.18	3.75	4.75	2			
					130.18	3.75	4.75	3			
3803471	1				130.18	6.1	3.95	O	AS4224		
					139.7	3.7	5.2	1			
					139.7	2.9	5.2	2			
3801056	1				139.7	2.95	5.2	3	AS4225		
					139.7	4.75	4.4	O			
					139.7	3.85	5.2	1			
4089489	1				139.7	2.75	5.15	2	AS4226		
					139.7	4.75	4.38	O			
					139.7	3.85	5.2	1			
3801056-2	1				139.7	2.9	5.2	2	AS4227		
					139.7	2.9	5.2	3			
					139.7	4.75	3.1	O			
3803990	1				139.7	3.85	5.2	C1	AS4228		
					139.7	2.75	5.2	C2			
					139.7	4.75	3.3	O			
3801755	1				139.7	3.7	5.2	1	AS4229		
					139.7	2.9	5.2	2			
					139.7	2.95	5.2	3			
4089810	1				139.7	4.75	4.4	O	AS4230		
					139.7	3.75	5.15	1			
					139.7	2.95	5.2	2			
3803961	1				139.7	3	5.15	3	AS4231		
					139.7	4.75	3	O			
					125	3.05	4.4	1			
					125	3.05	4.5	2			
					125	4.75	2.8	O			

	 CC	 CYL/ENG						 PART#	 CYL/SET	 MIN
CUSHMAN										
				780 Series 1 Cyl. 9 H.P.; M100 2 Cyl. 18 H.P.	88.90	2.38	4.19	AS4301	1 Cyl.	STD
						2.38	3.66			
						4.75	3.99			
				R20, 3RB20 3 H.P.; 3R20 - 2 1/2 H.P.	88.90	4.75	3.96	AS4302	1 Cyl.	STD
						4.75	3.99			
						4.75	3.99			

										
DAE WOO RACER										
F8C	796	4	2003-On	796cc F8C, Matiz, SOHC Pontiac Eng	68.50	1.20	2.92	AS4401	4 Cyl.	STD
						1.20	3.28	AS4401010		1.00
						2.50	2.79	AS4401020		0.50
								AS4401030		0.75
	600		1999-On	F6B Matiz, Tico Suzuki	68.50	1.20	2.92	AS4402	3 Cyl.	STD
	800		1999-02	F8C, F8CV Damas, Mitiz, Tico Suzuki		1.50	2.62	AS4402010		0.25
						2.80	3.30	AS4402020		0.50
								AS4402030		0.75
								AS4402040		1.00
	995		2003-On	Matiz, SOHC Pontiac Eng	68.50	1.20	2.92	AS4403	1 Cyl.	STD
						1.20	3.28	AS4403010		0.25
						2.50	2.79	AS4403020		0.50
								AS4403030		0.75
								AS4403040		1.00
								AS4403050		1.50
G15	1498	4	1988-On	G15 SF	76.50	1.50	3.45	AS4404	4 Cyl.	STD
						1.50	3.23	AS4404010		0.25
			1988-On			3.00	3.56	AS4404020		0.50
								AS4404030		0.75
								AS4404040		1.00
								AS4404050		1.00
								AS4404060		0.25
								AS4404070		0.50
								AS4404080		0.75
								AS4404090		1.00
	1378	4			76.50	1.20	2.92	AS4405	4 Cyl.	STD
						1.50	3.23	AS4405010		0.25
						2.50	2.79	AS4405020		0.50
								AS4405030		0.75
DAIHATSU										
	843			843cc Charade CD	70.00	1.50	3.25	AS4501	3 Cyl.	STD
						1.50	2.95			
						2.80	1.14			
	843							AS4502		STD
								AS4502010		0.25
								AS4502020		0.50
								AS4502030		0.75
	1298	4	2005-08	K3-VE DOHC Sirion, Terios (Toyota)	72.00	1.20	2.92	AS4503	4 Cyl.	STD
						1.20	3.10	AS4503010		0.41
						2.00	2.67	AS4503020		0.50
								AS4503030		0.61
								AS4503040		0.75
								AS4503050		1.00
	993			993cc Charade CB10, CB32, CB90, G10	76.00	1.50	2.95	AS4504	3 Cyl.	STD
						1.50	3.23	AS4504010		0.50
						2.80	3.30	AS4504020		0.75
								AS4504030		1.00
								AS4505		STD
								AS4505010		0.25
								AS4505020		0.50
								AS4505030		0.75
								AS4505040		1.00
	1589	4		HD, Applause	76.00	1.20	3.33	AS4506	4 Cyl.	STD
						1.50	3.48	AS4506010		0.50
						3.00	2.79	AS4506020		0.75

										
DAIHATSU										
	544			544cc EK23 Fuji	76.00	1.50	3.45	AS4507	2 Cyl.	STD
						1.50	3.48	AS4507010		0.25
						2.80	3.30	AS4507020		0.50
								AS4507030		0.75
								AS4507040		1.00
								AS4508		STD
								AS4508010		0.25
								AS4508020		0.50
								AS4508030		0.75
								AS4508040		1.00
	2530	4		Diesel DG, Delta, F50, Taft, V20, V23, 24, 25, 26	88.00	2.50	4.14	AS4509	4 Cyl.	STD
						2.00	3.96	AS4509010		0.75
						4.00	4.04	AS4509020		1.50
DAVID BROWN-ALSO SEE CASE										
				Super Cropmaster, Taskmaster, DB, Trackmaster	92.08	3.18	3.84	AS4601	1 Cyl.	STD
						3.18	3.86	AS4601010		0.25
						4.75	4.62			
								AS4602		STD
		4		770, 780, 880, 900, 950, 990 Diesel	92.08	2.38	4.06	AS4603	4 Cyl.	STD
						2.38	4.09			
						2.38	4.09			
						4.75	1.27			
DE LOREAN										
	6			1981-OnDMC-12	91.00	1.50	4.04	AS4701	6 Cyl.	STD
						2.00	3.68	AS4701010		0.50
						4.00	4.62	AS4701020		0.75
								AS4702		STD
								AS4702010		0.50
								AS4702020		0.75
DEARBORN										
	6			85, 100	88.90	2.00	4.19	AS4801	6 Cyl.	STD
						2.00	4.22	AS4801010		0.75
						4.75	4.39	AS4801020		1.00
								AS4801030		0.13
								AS4801040		1.50
								AS4802		STD
								AS4802010		0.13
								AS4803		STD
								AS4803010		0.75
								AS4803020		1.00
								AS4803030		0.13
	8			135, 145, 150, 160, 170	92.08	2.38	4.06	AS4804	8 Cyl.	STD
						2.38	4.09	AS4804010		0.50
						4.75	1.27	AS4804020		0.75
								AS4805		STD

										
DEARBORN										
	8		175, 185		95.25	2.00	4.47	AS4806	8 Cyl.	STD
						2.00	4.50	AS4806010		0.25
						4.75	1.27	AS4806020		2.50
								AS4806030		0.50
								AS4806040		0.75
								AS4806050		1.00
								AS4806060		1.50
								AS4806070		2.00
								AS4807		STD
								AS4807010		0.25
								AS4807020		0.50
								AS4807030		0.75
								AS4807040		1.00
								AS4807050		1.50
								AS4808		STD
								AS4808010		0.25
								AS4808020		0.50
								AS4808030		0.75
								AS4808040		1.00
								AS4808050		1.50
								AS4808060		2.00
								AS4808070		2.50
	8		215		96.52	2.00	3.71	AS4809	8 Cyl.	STD
						2.38	4.24	AS4809010		0.75
						4.75	4.62	AS4809020		1.00
								AS4809030		1.50
								AS4810		STD
								AS4810010		0.75
								AS4810020		1.00
								AS4810030		1.50
								AS4811		STD
								AS4811010		0.75
								AS4811020		1.00
								AS4811030		1.50
	8		240, 260		102.87	2.00	4.85	AS4812	8 Cyl.	STD
						2.38	4.88	AS4812010		0.50
						4.75	4.88	AS4812020		0.75
								AS4812030		1.00
								AS4812040		1.50
								AS4813		STD
								AS4813010		0.25
								AS4813020		0.50
								AS4813030		0.75
								AS4814		STD
								AS4814010		0.50
								AS4814020		0.75
								AS4814030		1.00
								AS4814040		1.50
	8		275		109.22	2.00	5.13	AS4815	8 Cyl.	STD
						2.38	5.16	AS4815010		0.75
						4.75	1.27			
DEUTZ-GERMAN										
			F4L912 4 Cyl.; F6L912 6 Cyl.		100.00	3.00	4.34	AS4901	2 Cyl.	STD
						2.50	4.37			
						2.50	4.37			
						5.00	5.31			



          											
DEUTZ											
FL812		1			95	2.5	4	1	AS4902		
					95	2.5	4	2			
					95	2.5	4	3			
					95	5	3.2	O			
FL912		1			100	2.9	4.2	1	AS4903		
					100	2.5	4.3	2			
					100	2.5	4.3	3			
					100	5	3.3	O			
FL511		1			100	2.9	4.2	1	AS4904		
					100	2.5	4.4	2			
					100	5	3.3	O			
FL913		1			102	2.9	4.3	1	AS4905		
					102	2.5	4.2	2			
					102	2.5	4.2	3			
					102	5	3.3	O			
FL514		1			110	3	4.6	1	AS4906		
					110	3	4.6	2			
					110	3	4.6	3			
					110	6	3.5(4.6)	O1			
					110	6	4.6	O2			
FL914		1			120	3	5	1	AS4907		
					120	3	5	2			
					120	3	5	3			
					120	6	3.7(5.2)	O			
413F		1			125	3	4.7	1	AS4908		
					125	2.5	5.2	2			
					125	4	2.95	O			
		1			132	3.95	5.35	1	AS4909		
					132	3	3	2			
					132	3.5	3.2	O			

										
DODGE TRUCKS										
		4	1979-80	98cu. in.	76.90	2.00	3.66	AS5001	4 Cyl.	STD
						2.00	3.68	AS5001010		0.25
						4.00	3.94	AS5001020		0.50
								AS5001030		0.75
								AS5001040		1.00
								AS5001050		1.50
								AS5002		STD
								AS5002010		0.25
								AS5002020		0.50
								AS5002030		0.75
								AS5002040		1.00
230cu. in.		6	1941-60		82.55	2.38	3.89	AS5003	6 Cyl.	STD
						2.38	3.91	AS5003010		1.00
						4.00	4.39	AS5003020		1.50
						4.00	3.91			
								AS5004		STD
		6	1935-40	K, LF, TD, VD Series	82.55	3.18	3.89	AS5005	6 Cyl.	STD
						3.18	3.78			
						4.00	4.39			
						4.00	3.91			
230cu. in.		6	1941	WC, WD Series	82.55	2.38	3.89	AS5006	6 Cyl.	STD
						3.18	3.78			
						4.00	4.39			
						4.00	3.91			
122cu. in.		4	1979-82	D50	84.00	2.00	3.99	AS5007	4 Cyl.	STD
						2.00	3.84	AS5007010		0.50
						4.00	3.43	AS5007020		0.75
								AS5007030		1.00
								AS5007040		1.50
								AS5008		STD
								AS5008010		0.25
								AS5008020		0.50
								AS5008030		0.75
								AS5008040		1.00
								AS5008050		1.50
122cu. in.		4	1983-86	A	85.00	2.00	3.81	AS5009	4 Cyl.	STD
						2.00	3.45	AS5009010		0.50
						4.00	3.43	AS5009020		0.75
								AS5009030		1.00
								AS5009040		1.50
								AS5010		STD
								AS5010010		0.50
								AS5010020		0.75
								AS5010030		1.00
								AS5010040		1.50
122cu. in.		4	1987-89	A	85.00	1.50	3.43	AS5011	4 Cyl.	STD
						1.50	3.43	AS5011010		0.25
						4.00	3.81	AS5011020		0.50
								AS5011030		0.75
								AS5011040		1.00
								AS5011050		1.50
								AS5012		STD
								AS5012010		0.25
								AS5012020		0.50
								AS5012030		0.75
								AS5012040		1.00
								AS5012050		1.50
								AS5013		STD
								AS5013010		0.25
								AS5013020		0.50
								AS5013030		1.50

										
PART#	CYL/SET	mm	DODGE TRUCKS							
170cu. in.	6	1961-69		86.36	2.00	4.09		AS5014	6 Cyl.	STD
198cu. in.		1970-73			2.00	4.11		AS5014010		0.50
225cu. in.		1961-87			4.75	4.75		AS5014020		0.75
								AS5014030		1.00
								AS5014040		1.50
								AS5015		STD
								AS5015010		0.50
								AS5015020		0.75
								AS5015030		1.00
								AS5015040		1.50
								AS5016		STD
								AS5016010		0.75
								AS5016020		1.00
								AS5016030		1.50
146cu. in.	4	1990-93 G64B		86.50	1.50	3.45		AS5017	4 Cyl.	STD
					1.50	3.45		AS5017010		0.50
					4.00	3.68		AS5017020		0.75
								AS5017030		1.00
								AS5017040		1.50
								AS5018		STD
								AS5018010		0.25
								AS5018020		0.50
								AS5018030		0.75
								AS5018040		1.00
146cu. in.	4	1993-05 Mitsubishi RSD2, 4G64		86.50	1.20	3.33		AS5019	4 Cyl.	STD
					1.50	3.45		AS5019010		0.50
					2.80	2.79		AS5019020		0.75
								AS5019030		1.00
								AS5019040		1.50
146cu. in.	4	1993-96 Mitsubishi 4G64		86.50	1.20	3.33		AS5020	4 Cyl.	STD
					1.50	3.45		AS5020010		0.25
					3.00	2.54		AS5020020		0.50
								AS5020030		0.75
								AS5020040		1.00
								AS5020050		1.50
265 cu. in.	6	1942-54 239, 251 & Engs.		87.31	2.38	3.61		AS5021	6 Cyl.	STD
					2.38	4.14				
					4.00	4.50				
					4.00	4.14				
								AS5022		STD
241cu. in.	8	1954 C1J, C1JA, C1K, C1KA		87.31	2.00	4.11		AS5023	8 Cyl.	STD
					2.00	4.14				
					4.75	1.27				
265 cu. in.	6	1955-68 251 & Engs.		87.31	2.00	4.11		AS5024	6 Cyl.	STD
					2.00	4.14		AS5024010		0.75
					4.75	1.27				
								AS5025		STD
								AS5025010		0.75

										
DODGE TRUCKS										
135cu. in.		4	1985-89	Shallow Oil Ring Groove	87.50	1.50	4.11	AS5026	4 Cyl.	STD
153cu. in.			1986-95	Shallow Oil Ring Groove		1.50	3.28	AS5026010		0.50
						4.00	1.27	AS5026020		0.75
								AS5026030		1.00
								AS5026040		1.50
								AS5027		STD
								AS5027010		0.50
								AS5027020		0.75
								AS5028		STD
								AS5028010		0.25
								AS5028020		0.50
								AS5028030		0.75
								AS5028040		1.00
								AS5028050		1.50
148cu. in.	2429	4	1998-05	Vin: B,R,X,1,3	87.50	1.20	3.53	AS5029	4 Cyl.	STD
						1.50	3.28	AS5029010		0.25
						3.00	3.81	AS5029020		0.50
								AS5029030		0.75
								AS5029040		1.00
135cu. in.		4	1981-85	Deep Oil Ring Groove	87.50	1.50	4.11	AS5030	4 Cyl.	STD
						1.50	3.28	AS5030010		0.25
						4.00	4.24	AS5030020		0.50
								AS5030030		0.75
								AS5030040		1.00
								AS5030050		1.50
								AS5031		STD
								AS5031010		0.25
								AS5031020		0.50
								AS5031030		0.75
								AS5031040		1.00
								AS5031050		1.50
								AS5032		STD
								AS5032010		0.25
								AS5032020		0.50
								AS5032030		0.75
								AS5032040		1.00
								AS5032050		1.50
260cu. in.		8	1955-56	C3B8, C8, D8, F8, G8, H8 Series	90.49	2.00	4.01	AS5033	8 Cyl.	STD
						2.00	4.29	AS5033010		1.50
						4.75	4.62			
181cu. in.	2972	6	1987-04	, Mitsubishi 6G72 Vin: H	91.10	1.50	4.04	AS5034	6 Cyl.	STD
						1.50	4.06	AS5034010		0.25
						4.00	3.30	AS5034020		0.50
								AS5034030		0.75
								AS5034040		1.00
								AS5034050		1.50
								AS5035		STD
								AS5035010		0.25
								AS5035020		0.50
								AS5035030		0.75
								AS5035040		1.00
								AS5035050		1.50
181cu. in.	2972	6	1991-05	Vin: H, Dodge Stratus Mitsubishi 6G72	91.10	1.20	3.73	AS5036	6 Cyl.	STD
						1.50	4.06	AS5036010		0.50
						3.00	2.92	AS5036020		0.75
								AS5036030		1.00
								AS5036040		1.50

										
DODGE TRUCKS										
156cu. in.		4	1979-83	D50 Thru March 1983 2-2.0mm Comp.	91.10	2.00	3.71	AS5037	4 Cyl.	STD
						2.00	3.99	AS5037010		0.25
						4.00	3.30	AS5037020		0.50
								AS5037030		0.75
								AS5037040		1.00
								AS5037050		1.50
								AS5038		STD
								AS5038010		0.25
								AS5038020		0.50
								AS5038030		0.75
								AS5038040		1.00
								AS5038050		1.50
								AS5039		STD
								AS5039010		0.25
								AS5039020		0.50
								AS5039030		0.75
								AS5039040		1.00
								AS5039050		1.50
143cu. in.		4	1983-86	Diesel	91.10	2.50	4.04	AS5040	4 Cyl.	STD
			1983-85	4D-55 Diesel D50		2.00	4.06	AS5040010		0.50
						4.00	4.24	AS5040020		0.75
								AS5040030		1.00
156cu. in.		4	1983-89	April 1983-89 2-1.5mm Comp.	91.10	1.50	3.58	AS5041	4 Cyl.	STD
						1.50	4.06	AS5041010		0.25
						4.00	3.81	AS5041020		0.50
								AS5041030		0.75
								AS5041040		1.00
								AS5041050		1.50
								AS5042		STD
								AS5042010		0.25
								AS5042020		0.50
								AS5042030		0.75
								AS5042040		1.00
								AS5042050		1.50
315 cu. in.		8	1955-59	270 & Eng.	92.08	2.00	4.32	AS5043	8 Cyl.	STD
273cu. in.			1964-67			2.00	4.34	AS5043010		0.25
				Models w/Chry. C67		4.75	1.27	AS5043020		0.50
								AS5043030		0.75
								AS5043040		1.00
								AS5043050		1.50
								AS5044		STD
								AS5044010		0.50
								AS5044020		0.75
								AS5044030		1.00
								AS5045		STD
								AS5045010		0.75
								AS5045020		1.00
								AS5045030		1.50
201cu. in.	3300	6	1988-97		93.00	1.50	3.48	AS5046	6 Cyl.	STD
226cu. in.			1999-11	Vin: K		1.50	3.78	AS5046010		0.50
						3.00	3.94	AS5046020		0.75
								AS5046030		1.00
								AS5046040		1.50
								AS5047		STD
								AS5047010		0.25
								AS5047020		0.50
								AS5047030		0.75
								AS5047040		1.00
								AS5047050		1.50

										
DODGE TRUCKS										
287cu. in.		8	1999-07	Vin: N	93.00	1.50	3.48	AS5048	8 Cyl.	STD
						1.50	3.78	AS5048010		0.25
						3.00	3.94	AS5048020		0.50
								AS5048030		0.75
								AS5048040		1.00
								AS5049		STD
								AS5049010		0.25
								AS5049020		0.50
								AS5049030		0.75
								AS5049040		1.00
201cu. in.		6	1998-09	Vin: G,R,3 Caravan	93.00	1.50	3.45	AS5050	6 Cyl.	STD
						1.50	3.78	AS5050010		0.50
						3.00	3.81	AS5050020		0.75
								AS5050030		1.00
								AS5050040		1.50
285cu. in.		8	2008-13	Vin: P (lex fuel) Dakota, Ram	93.00	1.20	3.61	AS5051	8 Cyl.	STD
						1.50	3.78	AS5051010		0.25
						2.50	2.79	AS5051020		0.50
								AS5051030		0.75
								AS5051040		1.00
220cu. in.		6	2011-13	Vin: G, ERB 3.6 Litre Flexfuel, Avenger, Caravan, Durango, Journey	96.00	1.20	3.12	AS5052	6 Cyl.	STD
						1.20	3.81	AS5052010		0.50
						2.00	2.92	AS5052020		0.75
								AS5052030		1.00
214cu. in.		6	1993-94		96.00	1.50	3.94	AS5053	6 Cyl.	STD
231cu. in.			1991-00			1.50	3.73	AS5053010		0.25
						3.00	3.81	AS5053020		0.50
								AS5053030		0.75
								AS5053040		1.00
								AS5053050		1.50
								AS5054		STD
								AS5054010		0.50
								AS5054020		0.75
								AS5054030		1.00
								AS5054040		1.50
								AS5055		STD
								AS5055010		0.50
231cu. in.	3952	6	2001-10	Vin: L,P	96.00	1.20	3.73	AS5056	6 Cyl.	STD
	3952		2007-11	241cu. in Vin: X Caravan, Nitro		1.50	3.73	AS5056010		0.25
						3.00	3.81	AS5056020		0.50
								AS5056030		0.75
								AS5056040		0.10
								AS5056050		1.00
								AS5056060		1.50
								AS5057		STD
								AS5057010		0.25
								AS5057020		0.50
								AS5057030		0.75
								AS5057040		1.00
153cu. in.		4	1996-02	L4 Vin: P	98.43	1.50	4.29	AS5058	4 Cyl.	STD
						1.50	3.99	AS5058010		0.50
						4.00	3.94	AS5058020		0.75
								AS5058030		1.00
								AS5058040		1.50
								AS5059		STD
								AS5059010		0.50
								AS5059020		0.75
								AS5059030		1.00
								AS5059040		1.50

										
DODGE TRUCKS										
313cu. in.	8	1958-65	Canada	98.43	2.00	4.62		AS5060	8 Cyl.	STD
					2.00	4.65		AS5060010		0.25
					4.75	4.88		AS5060020		0.50
								AS5060030		0.75
								AS5060040		1.00
								AS5060050		1.50
								AS5060060		2.00
								AS5061		STD
								AS5061010		0.25
								AS5061020		0.50
								AS5061030		0.75
								AS5061040		1.00
								AS5061050		1.50
								AS5061060		2.00
								AS5062		STD
								AS5062010		0.25
								AS5062020		0.50
								AS5062030		0.75
								AS5062040		1.00
								AS5062050		1.50
								AS5062060		2.00
318cu. in.	8	1959-93		99.31	2.00	4.67		AS5063	8 Cyl.	STD
					2.00	4.70		AS5063010		0.50
					4.75	4.75		AS5063020		0.75
								AS5063030		1.00
								AS5063040		1.50
								AS5064		STD
								AS5064010		0.25
								AS5064020		0.50
								AS5064030		0.75
								AS5064040		1.00
								AS5064050		1.50
								AS5064060		1.75
								AS5065		STD
								AS5065010		0.50
								AS5065020		0.75
								AS5065030		1.00
								AS5065040		1.50
318cu. in.	8	1991-03	Vin:T,Y Shallow Oil Ring Groove	99.31	2.00	4.67		AS5066	8 Cyl.	STD
					2.00	4.70		AS5066010		0.50
					4.00	3.81		AS5066020		0.75
								AS5066030		1.00
								AS5066040		1.50
								AS5067		STD
								AS5067010		0.50
								AS5067020		0.75
								AS5067030		1.00
								AS5067040		1.50
								AS5068		STD
								AS5068010		0.50
								AS5068020		0.75
								AS5068030		1.00
								AS5068040		1.50
239cu. in.	6	1992-03	V6 Vin: X Shallow Oil Ring Groove	99.31	2.00	4.67		AS5069	6 Cyl.	STD
					2.00	4.70		AS5069010		0.50
					4.00	3.81		AS5069020		0.75
								AS5069030		1.00
								AS5069040		1.50
								AS5070		STD
								AS5070010		0.50
								AS5070020		0.75
								AS5070030		1.00
								AS5070040		1.50
								AS5071		STD
								AS5071010		0.50
								AS5071020		0.75
								AS5071030		1.00
								AS5071040		1.50

										
DODGE TRUCKS										
239cu. in.		6	1987-91		99.31	2.00	4.67	AS5072	6 Cyl.	STD
						2.00	4.70	AS5072010		0.50
						4.75	4.75	AS5072020		0.75
								AS5072030		1.00
								AS5072040		1.50
								AS5073		STD
								AS5073010		0.50
								AS5073020		0.75
								AS5073030		1.00
								AS5073040		1.50
								AS5074		STD
								AS5074010		0.50
								AS5074020		0.75
								AS5074030		1.00
								AS5074040		1.50
348cu. in.		8	2003-08	Vin: D,H,2 Hemi	99.50	1.50	3.96	AS5075	8 Cyl.	STD
			2003-08			1.50	4.24	AS5075010		0.25
						3.00	2.79	AS5075020		0.50
								AS5075030		0.75
								AS5075040		1.00
								AS5076		STD
								AS5076010		0.25
								AS5076020		0.50
								AS5076030		0.75
								AS5076040		1.00
								AS5076050		1.50
EZC, EZH		8	2009-14	345cu. in. EZC, EZH, Hemi Vin: T Challenger, Charger, 300	99.50	1.20	3.61	AS5077	8 Cyl.	STD
						1.20	4.37	AS5077010		0.10
						2.00	2.92	AS5077020		0.50
								AS5077030		0.75
								AS5077040		1.00
354cu. in.		8	1957-59		100.01	2.00	4.34	AS5078	8 Cyl.	STD
						2.00	4.37	AS5078010		0.75
						4.75	1.27			
360cu. in.		8	1972-94		101.60	2.00	4.78	AS5079	8 Cyl.	STD
						2.00	4.80	AS5079010		0.25
						4.75	4.88	AS5079020		0.50
								AS5079030		0.75
								AS5079040		1.00
								AS5079050		1.50
								AS5079060		1.75
								AS5079070		2.00
								AS5079080		2.50
								AS5080		STD
								AS5080010		0.25
								AS5080020		0.50
								AS5080030		0.75
								AS5080040		1.00
								AS5080050		1.50
								AS5080060		1.75
								AS5080070		2.00
								AS5081		STD
								AS5081010		0.13
								AS5081020		0.25
								AS5081030		0.50
								AS5081040		0.75
								AS5081050		1.00
								AS5081060		1.50
								AS5081070		1.75
								AS5081080		2.00
								AS5081090		2.50

										
DODGE TRUCKS										
360cu. in.		8	1995-04	Vin: Z	101.60	1.50	3.96	AS5082	8 Cyl.	STD
						1.50	4.37	AS5082010		0.50
						4.00	3.48	AS5082020		0.75
								AS5082030		1.00
								AS5082040		1.50
								AS5083		STD
								AS5083010		0.13
								AS5083020		0.25
								AS5083030		0.50
								AS5083040		0.75
								AS5083050		1.00
								AS5083060		1.50
488cu. in.		10	1994-03	Vin: W	101.60	1.50	3.86	AS5084	10 Cyl.	STD
						1.50	4.37	AS5084010		0.50
						4.00	3.81	AS5084020		0.75
								AS5084030		1.00
								AS5084040		1.50
377cu. in.		6	1950-52		101.60	2.50	4.78	AS5085	6 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						6.00	4.88			
359cu. in.		6	1988-97	6BTA Vin: C,D.8 12v Turbo Intercooled Cummins Std Size OE Ref. #3802421, sup/#3802230	102.00	3.00	4.29	AS5086	6 Cyl.	STD
						2.38	4.42	AS5086010		0.50
						4.00	3.66	AS5086020		0.75
								AS5086030		1.00
359cu. in.		6		Turbo Diesel Intercooled 24V Cummins 6BTA Standard Size OE Ref#3804990/4089258	102.00	3.00	4.29	AS5087	6 Cyl.	STD
						2.39	4.37	AS5087010		1.00
						4.00	3.66	AS5087020		0.50
370cu. in.		8	2005-10	Vin: W,3	103.00	1.50	4.09	AS5088	8 Cyl.	STD
						1.50	4.37	AS5088010		0.25
						3.00	3.18	AS5088020		0.50
								AS5088030		0.75
								AS5088040		1.00
								AS5088050		1.50
515cu. in.		10	2008-13	Vin: N, Z	103.00	1.50	4.09	AS5089	10 Cyl.	STD
						1.50	4.37	AS5089010		0.50
						3.00	3.18	AS5089020		0.75
								AS5089030		1.00
ESH		8	2011-14	392cu. in. Hemi OHV FI Vin:J SRT8, Challenger, Charger Engine Code ESH	104.00	1.20	3.61	AS5090	8 Cyl.	STD
						1.20	4.32	AS5090010		0.50
						2.00	3.30	AS5090020		0.75
								AS5090030		1.00
361cu. in.		8	1960-76		104.78	2.38	4.93	AS5091	8 Cyl.	STD
						2.38	4.95	AS5091010		0.50
						4.75	5.00	AS5091020		0.75
								AS5091030		1.00
								AS5091040		1.50
								AS5092		STD
								AS5092010		0.75
								AS5092020		1.00
								AS5092030		1.50
408cu. in.		6	2007-12	ISB 24V Turbo/Intercooled Cummins Vin:AL Std Size OE Ref. #4955366	107.00	2.87	4.42	AS5093	6 Cyl.	STD
						2.50	4.57	AS5093010		0.50
						3.46	4.00	AS5093020		1.00

										
DODGE TRUCKS										
383cu. in.		8	1967-71		107.95	2.00	5.05	AS5094	8 Cyl.	STD
						2.00	5.08	AS5094010		0.25
						4.75	4.88	AS5094020		0.50
								AS5094030		0.75
								AS5094040		1.00
								AS5094050		1.50
								AS5094060		2.00
								AS5094070		2.50
								AS5095		STD
								AS5095010		0.25
								AS5095020		0.50
								AS5095030		0.75
								AS5095040		1.00
								AS5095050		1.50
								AS5096		STD
								AS5096010		0.25
								AS5096020		0.50
								AS5096030		0.75
								AS5096040		1.00
								AS5096050		1.50
								AS5096060		1.75
								AS5096070		2.00
								AS5096080		2.50
440cu. in.		8	1972-80		109.73	2.00	5.13	AS5097A	8 Cyl.	STD
						2.00	5.16	AS5097A10		0.25
						4.75	4.88	AS5097A20		0.50
								AS5097A30		0.75
								AS5097A40		1.00
								AS5097A50		1.50
								AS5097B		STD
								AS5097B10		0.75
								AS5097B20		1.00
								AS5097B30		1.50
								AS5097C		STD
								AS5097C10		0.75
								AS5097C20		1.00
								AS5097C30		1.50
400cu. in.		8	1972-79		110.29	2.00	5.16	AS5097D	8 Cyl.	STD
						2.00	5.18	AS5097D10		0.75
						4.75	1.27			
								AS5097E		STD
								AS5097F		STD
								AS5097F10		0.50
								AS5097F20		0.75
								AS5097F30		1.00
549cu. in.		8	1970-78 478, 5 Engs.		114.30	2.38	5.36	AS5098	8 Cyl.	STD
						2.38	4.85			
						4.75	5.08			
								AS5099		STD
								AS5099010		0.50
								AS5099020		0.75
								AS5099030		1.00
								AS5099040		1.50
EVINRUDE										
			1956-63 10 H.P.		60.33	2.38	2.59	AS5100	1 Cyl.	STD
			1951-56 15 H.P.			2.38	2.62			
						2.38	2.62			

										
FAIRBANKS-MORSE										
				ZC ZC118 6-7 H.P.	127.00	4.75	4.85	AS5110	1 Cyl.	STD
						4.75	4.88			
						4.75	2.90			
				Z 6 H.P.; ZC ZC208 8-9 H.P.	146.05	4.75	5.87	AS5120	1 Cyl.	STD
						4.75	5.89	AS5120010		0.50
						4.75	6.07	AS5120020		0.75
FERGUSON										
		4		Z120 Cont. TE20, TO20 * Allied #WSA312 Genuine Parts #S104 Thompson #SA169 White Machine #G219HCH INCREASE BORE SLEEVE ASSEMBLY FOR ABOVE	82.55	2.38	3.89	AS5200	4 Cyl.	STD
						2.38	3.91			
						4.00	4.39			
						4.00	3.91			
								AS5201		STD
		4		Z129 Cont. TO30	82.55	3.18	3.89	AS5202	4 Cyl.	STD
						3.18	3.78			
						3.18	3.78			
						4.75	4.39			
		4		Z129 Cont. TO30 * M & W Sleeve Kit Superior Piston #A993 Superior Piston #A1096 INCREASE BORE SLEEVE ASSEMBLY FOR ABOVE	84.14	2.38	3.99	AS5203	4 Cyl.	STD
						2.38	4.01			
						4.00	4.39			
						4.00	4.01			
		4		Z134 Cont. F40, 35, TO35	84.14	3.18	3.81	AS5204	4 Cyl.	STD
						3.18	3.84			
						3.18	3.84			
						4.75	4.39			
		4		Z129 Cont. TO30 * Sealed Power #SL1762 M & W Gear #SP23 McQuay Norris #SA201 INCREASE BORE SLEEVE ASSEMBLY FOR ABOVE	85.73	2.38	4.04	AS5205	4 Cyl.	STD
						2.38	4.06			
						2.38	4.06			
						4.75	1.27			
Z129, CONTINENTAL ENGINE TO30		4		M & W Sleeve Kit	85.73	3.18	4.04	AS5206	4 Cyl.	STD
				Superior Piston #A1096		3.18	3.89			
				Superior Piston #A993		3.18	3.89			
				INCREASE BORE SLEEVE ASSEMBLY FOR ABOVE		4.75	1.27			
								AS5207		STD

										
FIAT										
	903	4	1970-75	903cc 850 Sport Coupe	65.00	1.75	3.05	AS5300	4 Cyl.	STD
	843		1966-67	843cc 850 Coupe		2.00	3.07			
			1962	850 Motor 100 G000		4.00	4.24			
			1965	Motor 100 GC000 Spider, Racer						
			1971	127, 133 Motor 100 GL000				AS5301		STD
	1248		2003-10	DOHC Diesel Turbo	69.60	2.00	3.05	AS5302	1 Cyl.	STD
						1.50	3.07	AS5302010	1 Cyl.	0.40
						2.00	2.90	AS5302020	1 Cyl.	0.60
				N500 D-F-L-GTN	70.00	2.00	3.25	AS5303	2 Cyl.	STD
						2.00	3.28			
						3.50	3.81			
								AS5304		STD
		4		Fire Motor	70.00	1.50	3.25	AS5305	4 Cyl.	STD
				Panda, Tipo, Uno, M204		1.50	2.95	AS5305010		0.41
						3.00	3.30	AS5305020		0.61
								AS5305030		1.00
								AS5305040		1.50
								AS5306		STD
								AS5306010		0.41
								AS5306020		0.61
								AS5306030		0.81
	1108	4	1992-On	Sporting Panda, Selecta Panda, Country Club Panda	70.00	1.20	2.92	AS5307	4 Cyl.	STD
						1.20	3.12	AS5307010		0.41
						2.50	2.92	AS5307020		0.50
								AS5307030		0.61
								AS5307040		0.81
								AS5307050		1.00
								AS5307060		1.50
	1242	4	1996-On	Cabrio S, Punto 60S, Selecta	70.80	1.20	2.92	AS5308	4 Cyl.	STD
						1.20	3.12	AS5308010		0.41
						2.50	2.79	AS5308020		0.50
								AS5308030		0.61
								AS5308040		1.00
	1368	4	2005-On	Fire Idea, Palio, Weekend, Siena, Strada	72.00	1.20	2.92	AS5309	4 Cyl.	STD
						1.20	3.10	AS5309010		0.41
						2.00	2.67	AS5309020		0.50
								AS5309030		0.61
								AS5309040		0.75
								AS5309050		1.00
	1367	4	2009-On	EVO	72.00	1.00	2.92	AS5310	4 Cyl.	STD
						1.00	2.72			
						1.50	2.34			
								AS5311		STD
								AS5312		STD
	1560		2007-On	Diesel Turbo 9HU Chassis, Scudo	75.00	3.00	2.97	AS5313	1 Cyl.	STD
						1.95	3.33	AS5313010		0.50
						2.50	3.33			

										
FIAT										
1297	4	1974	131 1300 Miraiori Special Familiare	76.00	1.50	3.45		AS5314	4 Cyl.	STD
					2.00	3.48		AS5314010		0.25
					4.00	3.94		AS5314020		0.41
								AS5314030		0.61
								AS5314040		0.81
								AS5314050		1.00
								AS5314060		1.50
								AS5314070		1.60
								AS5315		STD
								AS5315010		0.25
								AS5315020		0.41
								AS5315030		0.50
								AS5315040		0.61
								AS5315050		0.81
								AS5315060		1.00
								AS5315070		1.50
								AS5315080		1.60
1049	4	1977	127 1050CL	76.00	1.50	3.45		AS5316	4 Cyl.	STD
					2.00	3.48		AS5316010		0.41
					4.00	3.94		AS5316020		0.61
								AS5316030		0.81
								AS5316040		1.00
								AS5316050		1.60
								AS5317		STD
								AS5317010		0.25
								AS5317020		0.41
								AS5317030		0.50
								AS5317040		0.61
								AS5317050		0.75
								AS5317060		0.81
								AS5317070		1.00
								AS5317080		1.50
								AS5317090		1.60
	4		147, 148 Mod. Gas/Alch Fits Brazilian Mahle Piston	76.00	1.50	3.07		AS5318	4 Cyl.	STD
					2.00	3.48		AS5318010		0.41
					4.00	3.43		AS5318020		0.50
								AS5318030		0.61
	4		1300, 1500, Gas/Alch Fits Brazilian Mahle Piston	76.00	1.50	2.95		AS5319	4 Cyl.	STD
					2.00	3.23				
					4.00	3.94				
								AS5320		STD
								AS5320010		0.41
								AS5320020		0.61
1500	4	1992-OnE201, Fiorino, Pick-Up		76.00	1.50	3.45		AS5321	4 Cyl.	STD
					1.50	3.48		AS5321010		0.20
					3.00	3.18		AS5321020		0.41
								AS5321030		0.50
								AS5321040		0.61
								AS5321050		0.81
								AS5322		STD
								AS5322010		0.20
								AS5322020		0.41
								AS5322030		0.50
								AS5322040		0.61
								AS5322050		0.81
1481	4	1961-70	115C 1500 Spyder, C, L, TS	77.00	2.00	3.66		AS5323	4 Cyl.	STD
					2.00	3.38				
					4.00	4.11				
								AS5324		STD
								AS5324010		0.50
								AS5324020		0.61
								AS5324030		1.00

										
FIAT										
	2279	6	1962-64	2300	78.00	2.00	3.35	AS5325	6 Cyl.	STD
						2.00	3.38			
						4.00	4.11			
								AS5326		STD
	1491	4	1969-71	1500S, 1600	78.00	2.00	3.35	AS5327	4 Cyl.	STD
						2.00	3.71			
						4.00	4.11			
								AS5328		STD
115C	1166	4	1970-75	125 128 Sedan & Wagon, OHC	80.00	1.50	3.18	AS5329	4 Cyl.	STD
	1438		1968-73	124 Sport Coupe, Sport Spider		2.00	3.71	AS5329010		0.50
	1608			124 Sport Coupe, Sport Spider		4.00	3.81	AS5329020		0.75
								AS5329030		0.81
								AS5329040		1.00
								AS5329050		1.50
								AS5330		STD
								AS5330010		0.50
								AS5330020		0.61
								AS5330030		0.75
								AS5330040		0.81
								AS5330050		1.00
								AS5330060		1.50
								AS5330070		1.60
	1372	4	1988-01	146C1, 146C5, 146D5, 159A2, 160A1, 836A4 Fiorino, Tempira, Tipo, Uno	80.50	1.50	3.18	AS5331	4 Cyl.	STD
						1.75	3.20	AS5331010		0.41
						3.00	3.43	AS5331020		0.50
								AS5331030		0.61
								AS5332		STD
								AS5332010		0.61
								AS5332020		1.00
	1372	4	1990-On	146C1.00 Uno Pacer incl. Turbo	80.50	1.50	3.18	AS5333	4 Cyl.	STD
						2.00	3.20	AS5333010		0.61
						4.00	3.81			
	1910		1996-01	Turbo Diesel SOHC 182 A7 TD 75 Brava, Marea	82.00	3.00	3.56	AS5334	1 Cyl.	STD
	2387		1996-99	Turbo Diesel SOHC 185 A2 TD 125 Marea		2.00	3.58			
						3.00	3.68			
223 A6.000, 192 A3.000, 188 A7.000, 188 A3.000, 188 A2.000, 186 A6.000	1910	4	1999-09	1.9L D/JTD Turbo Diesel Marea, Multipla, Palio, Punto, Stilo, Doblo, Siena, Strada	82.00	2.50	3.56	AS5335	1 Cyl.	STD
						2.00	3.58			
						2.00	2.87			
182 B4.000	1910	4	1998-10	1.9L JTD 105 Turbo Diesel Brava, Marea, Multipla,	82.00	3.00	3.56	AS5336	1 Cyl.	STD
185 A6.000, 839 A5.000	2387	5	1999-02	2.5L jtd 130 Turbo Diesel Marea		2.00	3.58			
						3.00	3.68			

										
FIAT										
192 A5.000, 192 B1.000, 937 A4.000, 937 A5.000, 937 A6.000, 939 A2.000	1910	4	2004-09	1.9L JTD Turbo Diesel CROMA, STILO BRAVO	82.00	2.00	3.53	AS5337	1 Cyl.	STD
939 A3.000	2387	5	2005-ON	2.4L Turbo Diesel CROMA Multijet		2.00	3.68			
						2.00	2.87			
182 B9.000, 186 A6.000, 186 A8.000, 188 A2.000, 188 A3.000, 188 A7.000, 192 A1.000, 192 A1.000, 939 A3.000, 223 A6.000,	1910	4	1997-10	1.9L JTD Diesel Turbo Bravo, Croma, Doblo, Multipla, Marea, Palio, Punto, Stilo	82.00	2.00	3.56	AS5338	1 Cyl.	STD
186 A9.000, 188 B2.000, 192 A8.000, 199 A5.00, 223 A7.000, 937 A7.000, D19AA						2.00	3.58			
						2.00	2.87			
	1868		1998-06	Diesel DW8, WJY, WJZ	82.20	2.00	3.56	AS5339	1 Cyl.	STD
						2.00	3.58	AS5339010		0.50
						3.00	3.68			
	1905		1995-06	Turbo Diesel TD D8B, DHX, XUD9TE w/3.50mm Keystone top grv.	83.00	3.50	3.61	AS5340	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
	1905		1995-06	Turbo Diesel DOHC TD D8B, DHX XUD9BTF, XUD9TE, XUD9TF	83.00	3.00	3.61	AS5341	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
	1905		1993-On	Diesel XUD9A	83.00	2.00	3.61	AS5342	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
	1905		1998-02	Diesel DOHC DJY, XUD9A	83.00	2.00	3.61	AS5343	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
	2000	4	1992-99	8V MPI (Italian) Celta, Croma, Tempra	84.00	1.50	3.81	AS5344	4 Cyl.	STD
						1.50	3.73	AS5344010		0.41
						3.00	3.30	AS5344020		0.61
								AS5344030		0.81
								AS5344040		1.00
								AS5345		STD
	2000		1992-99					AS5345010		0.41
								AS5345020		0.61
	1585	4	1974-On	131 1600 Miraiori Special Familiare	84.00	1.50	3.43	AS5346	4 Cyl.	STD
	1800		1973-80	Brava, Spider		2.00	3.45	AS5346010		0.25
	2000		1973-80	132 Brava, Spider		4.00	4.24	AS5346020		0.50
								AS5346030		0.75
								AS5346040		0.81
								AS5346050		1.00
								AS5346060		1.50
								AS5347		STD
								AS5347010		0.25
								AS5347020		0.50
								AS5347030		0.61
								AS5347040		0.75
								AS5347050		0.81
								AS5347060		1.00
								AS5347070		1.50
								AS5347080		1.60

										
FIAT										
	1997		1999-05	Turbo Diesel RHR DW10	85.00	3.50	3.71	AS5348	1 Cyl.	STD
	2179		2002-06	Turbo Diesel 4W, 4HX		2.00	3.73	AS5348010	1 Cyl.	0.60
						3.00	3.94			
	1290	4	1974-79	128	86.00	1.50	3.45	AS5349	4 Cyl.	STD
	1300		1972-73	128 Sport Coupe		2.00	3.89	AS5349010		0.25
						4.00	4.11	AS5349020		0.41
								AS5349030		0.50
								AS5349040		0.61
								AS5349050		0.75
								AS5349060		0.81
								AS5349070		1.00
								AS5349080		1.50
								AS5350		STD
								AS5350010		0.25
								AS5350020		0.41
								AS5350030		0.50
								AS5350040		0.75
								AS5350050		1.00
	1585	4		Florida	86.40	1.50	3.89	AS5351	4 Cyl.	STD
						2.00	3.91			
						3.00	3.18			
	1600	4	1992-On	Duna, Elba, Tempra, Weekender	86.40	1.50	3.45	AS5352	4 Cyl.	STD
						1.50	3.91	AS5352010		0.41
						3.00	3.18			
								AS5353		STD
								AS5353010		0.41
								AS5353020		0.50
								AS5353030		0.61
								AS5353040		1.00
		4		Fiorino, Mod. M202.PA.15.0 Fits Brazilian Mahle Piston	86.40	1.50	3.45	AS5354	4 Cyl.	STD
						1.75	3.48	AS5354010		0.41
						3.00	3.18	AS5354020		0.61
								AS5354030		1.00
								AS5355		STD
								AS5355010		0.41
								AS5355020		0.61
								AS5355030		1.00
		4	1975-83	Regata 70/S, 85/S Ritmo 65, 75, 70/S, 85/S, Strada, Targa Oro, Uno 70S Fits Brazilian Mahle Piston	86.40	1.50	3.45	AS5356	4 Cyl.	STD
						2.00	3.89	AS5356010		0.41
						4.00	3.68	AS5356020		0.61
								AS5356030		1.00
								AS5357		STD
								AS5357010		0.20
								AS5357020		0.41
								AS5357030		0.50
								AS5357040		0.61
								AS5357050		1.00
	1500	4	1979-82	X 1/9 Strada	86.40	1.50	3.45	AS5358	4 Cyl.	STD
						2.00	3.91	AS5358010		0.41
						4.00	4.50	AS5358020		0.81
								AS5358030		1.00
								AS5359		STD
								AS5359010		0.25
								AS5359020		0.41
								AS5359030		0.81
								AS5359040		1.00

										
FIAT										
	2286		2002-06	F1AE Turbo Diesel Ducato, 88.00 Euro 3		2.50	3.81	AS5360	1 Cyl.	STD
						2.00	3.84			
						2.50	3.33			
	4			131, 132 Diesel Daily	93.00	3.00	4.09	AS5361	4 Cyl.	STD
						2.00	4.11			
						4.00	4.19			
	2800		1997-02	Turbo Diesel TDI 8140 w/3.0mm Keystone top grv.	94.40	3.00	4.06	AS5362	1 Cyl.	STD
						2.00	4.09			
						3.00	3.78			
	2798		1998-02	Diesel TD 8140 w/3.00mm Keystone top grv.	94.40	3.00	4.06	AS5363	1 Cyl.	STD
						2.00	4.09			
						2.50	3.33			
	2800		1997-02	Turbo Diesel TDI 8140 w/2.5mm Keystone top grv.	94.40	2.50	4.06	AS5364	1 Cyl.	STD
						2.00	4.09			
						2.50	3.33			
	2998		2006-11	F1CE DOHC Turbo Diesel Ceramic Chrome Keystone top ring 2 pc oil ring	95.80	2.50	4.14	AS5365	1 Cyl.	STD
						2.00	4.17			
						2.50	3.33			
	6			308, 308L, 343, 418AC, 418L, Auto Bus & 684-NA, NB, NC, T Auto Capri	122.00	3.50	5.23	AS5366	6 Cyl.	STD
						3.00	5.11			
						3.00	5.11			
						5.50	5.64			
FORD BRITISH										
	6		1951-58	Zephyr, Zephyr Zodiac 3 Ring Piston	79.38	2.00	3.76	AS5400	6 Cyl.	STD
						2.00	3.78	AS5400010	1.00	
						4.75	1.27	AS5400020	1.00	
								AS5400030	1.50	
								AS5400040	1.50	
								AS5401	STD	
								AS5401010	0.25	
								AS5401020	0.50	
								AS5401030	0.75	
								AS5401040	1.00	
								AS5401050	1.50	
97.6cu. in.	1600	4		97 Ford Fiesta	80.96	1.60	3.58	AS5402	4 Cyl.	STD
97.6cu. in.	1600		1978-81	97 Ford Pinto 75 H.P.		2.00	3.86	AS5402010	0.25	
	940		1973-74	Escort 940; 711M		4.00	3.94	AS5402020	0.50	
	1098		1973-74	Escort 1100, 1300, 1300GT, Cortina 1100;				AS5402030	0.75	
	1298			Cortina 1300;				AS5402040	1.00	
	1599			Cortina 1600, Capri 1300, 1300GT 1600, 1600GT 618 CWT Van				AS5402050	1.50	
								AS5403	STD	
								AS5403010	0.50	
								AS5403020	0.75	
								AS5403030	1.00	
								AS5403040	1.50	
								AS5404	STD	
								AS5404010	0.25	
								AS5404020	0.50	
								AS5404030	0.75	
								AS5404040	1.00	

										
FORD BRITISH										
	940	4	1970-on	Escort 940; 711M	80.96	1.60	3.58	AS5405	4 Cyl.	STD
	1098			Escort 1100, 1300, 1300GT, Cortina 1100		2.00	3.73			
	1298			Cortina 1300;		4.00	4.39			
	1599			Cortina, Capri, 1300GT, 1600, 1600GT 618 CWT Van High Performance Compression Rings .005 oversize-File to it				AS5406		STD
	1558	4	1963-66	(Twin-Cam), Lotus Elan, Elan Sprint +2, +25, Europa Special, Lotus Cortina	82.55	2.00	3.89	AS5407	4 Cyl.	STD
			1956-63	Consul, Mark II, 375; Thames 10-15 CWT, Zephyr 4		2.00	3.91	AS5407010		0.25
						4.75	1.27	AS5407020		1.50
								AS5408		STD
		6	1956-63	Zephyr, Zodiac, Mark II	82.55	2.00	3.89	AS5409	6 Cyl.	STD
						2.00	3.91	AS5409010		0.25
						4.75	1.27	AS5409020		1.50
	992	4		39PS, 8, 9:1;	85.00	1.50	3.43	AS5410	4 Cyl.	STD
	1198		1959-67	48PS, 8, 7:1; 54PS, 8, 5, 5:1 For Aufgebohrte Motoren 85, Fahrzeug Anglia/Kombi, Anglia-Super, Cortina/Kombi, Cortina 1500/ Kombi,Classic, Capri, Consul 315, Consul-Corsair, Consul		1.50	3.43	AS5410010		0.25
	1340			57PS		4.00	3.81	AS5410020		0.50
	1498							AS5410030		0.75
								AS5410040		1.00
								AS5410050		1.50
								AS5411		STD
								AS5411010		0.25
								AS5411020		0.50
								AS5411030		0.75
								AS5411040		1.00
								AS5411050		1.50
								AS5412		STD
								AS5412010		0.25
								AS5412020		0.50
								AS5412030		1.50
		4	1970-On	Capri 1600	87.68	2.00	4.11	AS5413	4 Cyl.	STD
				1970-OnCapri 1600, Taunus 1600		2.50	4.14	AS5413010		0.25
						4.00	4.39	AS5413020		0.50
								AS5414		STD
								AS5414010		0.25
								AS5414020		0.50
								AS5414030		0.75
								AS5414040		1.50
	2000	4	1983-On	Sierra KOLN OHC	90.80	1.60	4.01	AS5415	4 Cyl.	STD
						2.00	4.04	AS5415010		0.50
						4.00	4.75	AS5415020		0.75
								AS5415030		1.00
								AS5415040		1.50
								AS5416		STD
								AS5416010		0.25
								AS5416020		0.50
								AS5416030		0.75
								AS5416040		1.00
								AS5416050		1.50

										
FORD BRITISH										
122cu. in.	2000	4	1972	Ford Pinto 100 H.P.	90.80	2.00	4.27	AS5417	4 Cyl.	STD
	2000		1971-74	Cortina L, G.T.		2.50	4.29	AS5417010		1.50
	2000		1971-74	Capri		4.00	4.24			
								AS5418		STD
								AS5418010		0.25
								AS5418020		0.50
								AS5418030		0.75
								AS5418040		1.00
								AS5418050		1.50
			1966-67	Zephyr Mark IV, Zodiac Mark IV	93.66	2.00	4.42	AS5419	2 Cyl.	STD
	1700		1966-67	Corsair Mark IV, Zephyr Mark IV		2.00	4.45	AS5419010		0.75
	2000			Corsair Mark IV, Zephyr Mark IV		4.75	4.62			
								AS5420		STD
								AS5420010		0.50
								AS5420020		0.75
								AS5420030		1.00
220 cu. in.	3610	4	1953-58	X220	100.01	2.38	4.09	AS5421	4 Cyl.	STD
220 cu. in.			1959-66	5000 Super Major Diesel		2.38	4.11			
	3610		1952-57	4D Trucks		2.38	4.11			
220 cu. in.			1953-57	FMD11, FMD14 English Diesel, Dagenham Diesel		4.75	3.66			
	3610		1952-65	OHV Cost Cutter 1 1/2 Thru 4 Ton Petrol		4.75	4.11			
	3610		1959-65	OHV Major Tractor Vapourising, OHV Thames 1 1/2 Thru 4 Ton, 4D Thames Trader, 1 1/2 Thru 5 Ton Major, Power Major, Super Major, Tractor 592 Diesel						
330 cu. in.	5416	6	1957-58	Diesel Y330	100.01	2.38	4.09	AS5422	6 Cyl.	STD
330 cu. in.				Diesel		2.38	4.11			
330 cu. in.				Y		2.38	4.11			
	5416			6D Trucks		4.75	4.60			
				OHV 6D Thames Trader 4 Thru 7 Ton, 590E Diesel OE, AE Pistons 428705, A428706, 426708, 429203		4.75	4.11			
254 cu. in.	4161		1969-71	254DF Dorset Diesel	107.21	2.38	4.32	AS5423	2 Cyl.	STD
254 cu. in.			1969-71	OHV, 25514; 2712E Series Parent Block		2.38	4.34			
380 cu. in.	6224			OHV, 38016; 2715E Series Parent Block		2.38	4.34			
380 cu. in.				380DF Dorset Diesel		4.75	4.65			
FORD EUROPEAN										
		4	1989-On	VSG411	68.68	1.50	3.18	AS5500	4 Cyl.	STD
				Fiesta, Escort, 1.0, 1.1 L HCS		1.75	3.20	AS5500010		0.50
						3.00	3.43	AS5500020		1.00
								AS5501		STD
								AS5501010		0.50
								AS5501020		1.00
	1399		2001-On	F6JA, F6JB Turbo Diesel	73.70	2.50	3.25	AS5502	1 Cyl.	STD
						1.95	3.28	AS5502010		0.25
						2.50	3.33	AS5502020		0.50
	1300	4	1988-On	VSG413	73.93	1.50	3.20	AS5503	4 Cyl.	STD
	1300			Escort, Orion, eng HCS, OHV		1.75	3.23	AS5503010		0.50
						3.00	3.18	AS5503020		0.75
								AS5503030		1.00

										
FORD EUROPEAN										
								AS5504		STD
								AS5504010		0.50
								AS5504020		0.75
								AS5504030		1.00
	1297	4		SOHC I4	73.94	1.20	2.92	AS5505	4 Cyl.	STD
						1.50	3.45	AS5505010		0.50
						2.00	3.05			
		4	1976	VSG411	74.00	1.60	3.20	AS5506	4 Cyl.	STD
				Fiesta 950 Base, 950 Ghia, Lussco, Fiesta 1100, Ghia, Lussco & Sport		2.00	3.23	AS5506010		0.50
						4.00	3.81	AS5506020		0.75
	1560			2003-On Turbo Diesel G8DA, G8DB75.00 HHDA, HHDB, HHJA, HHJB		3.00	2.97	AS5506030		1.00
						1.95	3.33	AS5507	1 Cyl.	STD
						2.50	3.33	AS5507010		0.50
ZH14 16V Zetec S	1388	4	1996-On	ZH14 16V Zetec S Fiesta, 76.00 Focus, Ghia, Puma		1.20	3.33	AS5508	4 Cyl.	STD
						1.50	3.48	AS5508010		0.50
						2.50	2.79	AS5508020		0.75
	1392	4	1986-On	CVH Ford	77.24	1.60	3.30	AS5509	4 Cyl.	STD
						2.00	3.33	AS5509010		0.50
						4.00	3.81	AS5509020		0.75
								AS5509030		1.00
								AS5510		STD
								AS5510010		0.25
								AS5510020		0.50
								AS5510030		1.00
	1293	4	1973	Capri	79.00	2.00	3.40	AS5511	4 Cyl.	STD
	1293		1971	Taurus 1300, 1300SW		2.50	3.78	AS5511010		0.50
			1971			4.00	3.81	AS5511020		1.00
								AS5512		STD
								AS5512010		1.00
FYDA, FYDB, FYDC, FYDD, FYDH, FYJA, FYJB, ZH 16,	1596	4	1998-04	97cu. in. Fiesta DOHC Vin79.00 naturally aspirated		1.20	2.92	AS5513	4 Cyl.	STD
								AS5513010		0.50
	1596		2011-On	Zetec ZH16 1.6 Litre Fiesta, Focus, Mondeo, Puma FYDA, FYDB, FYDC, FYDD, FYDH, FYJA, FYJB		1.50	3.43	AS5513020		0.75
						2.00	2.67			
	1800	4	1988-On	CVH Ford #E7EE6159DA80.00		1.50	3.18	AS5514	4 Cyl.	STD
						1.50	3.35	AS5514010		0.50
						3.00	3.43	AS5514020		0.75
								AS5514030		1.00
								AS5515		STD
								AS5515010		0.25
								AS5515020		0.50
								AS5515030		0.75
								AS5515040		1.00
								AS5516		STD
								AS5516010		0.50
								AS5516020		1.00
	1600	4	1984-On	E-Max Sierra	81.28	1.60	3.58	AS5517	4 Cyl.	STD
						2.00	3.61	AS5517010		0.50
						4.00	3.94	AS5517020		1.00

										
FORD EUROPEAN										
	1753	4	1988-On	Fiesta, Escort, Orion, Courier OHC Diesel	82.50	2.00	3.25	AS5518	4 Cyl.	STD
						2.00	3.78	AS5518010		0.50
						3.00	3.18			
								AS5519	4 Cyl.	STD
								AS5519010		0.50
								AS5519020		1.00
BHDA, BHDB, C9DA, C9DB, C9DC, C9DA, F9DA, F9DB, FFDA, KKDA, KKDB	1753		1998-07	Diesel Turbo Focus TDCi SOHC, BHDA, C9DA, F9DA, KKDA	82.50	2.50	3.61	AS5520	1 Cyl.	STD
						2.00	3.63	AS5520010		0.50
						3.00	3.68			
RFA, RFB, RFL, RFD, RFK, RFM, RFN, RFS, RFU, RVA			1993-01	Turbo Diesel SOHC Mondeo RFA, RFB, RFD, RFK, RFL, RFM, RFN, RFS, RFU, RVA	82.50	2.50	3.61	AS5521	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
RTE, RTF, RTH, RTA, RTB, RTC, RTD, RTG, RTJ, RTK	1753		1988-01	SOHC Diesel D18 RT Escort, Courier, Fiesta, Orion RTA, RTB, RTC, RTD, RTE, RTF, RTG, RTH, RTJ, RTK	82.50	2.00	3.56	AS5522	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
	1700	4	1957-64	Taurus 17M, Combi Station Wagon	84.00	2.00	3.99	AS5523	4 Cyl.	STD
						3.00	4.01	AS5523010		0.50
						5.00	1.27	AS5523020		0.75
								AS5523030		1.00
								AS5523040		1.50
								AS5524		STD
								AS5524010		0.25
								AS5524020		0.50
								AS5524030		0.75
								AS5524040		1.00
								AS5524050		1.50
	1998	6	1964-72		84.00	2.00	3.99	AS5525	6 Cyl.	STD
						3.00	4.01	AS5525010		0.50
						5.00	1.27	AS5525020		0.75
								AS5525030		1.00
								AS5525040		1.50
								AS5526		STD
								AS5526010		0.25
								AS5526020		0.50
								AS5526030		0.75
								AS5526040		1.00
								AS5526050		1.50
121cu. in.	1988	4	1998-On	Vin: 3, Z	84.86	1.50	3.43	AS5527	4 Cyl.	STD
121cu. in.	1988		1995-04	Mondeo ZH20 1 DOHC		1.75	3.45	AS5527010		0.25
						3.00	3.56			
								AS5528		STD
								AS5528010		0.50
	1998	4	1995-On	16 valve, Mondeo	84.86	1.20	3.33	AS5529	4 Cyl.	STD
						1.75	3.45	AS5529010		0.50
						3.00	3.56	AS5529020		0.75
								AS5529030		1.00
	1998	4		Mondeo	84.86	1.20	3.33	AS5530	4 Cyl.	STD
						1.50	4.04	AS5530010		0.50
						2.50	2.92	AS5530020		0.75
								AS5530030		1.00

										
FORD EUROPEAN										
	1997		2003-07	Turbo Diesel Duratorq G6DA, G6DB, G6DD	85.00	3.50	3.71	AS5531	1 Cyl.	STD
						2.00	3.73			
						3.00	3.94			
		4	1962-65	Taurus 17M TS, 70PS, Corso	85.50	2.00	4.04	AS5532	4 Cyl.	STD
						3.00	4.06	AS5532010	1 Cyl.	0.60
						5.00	4.50			
	1998	4	1988-On	DOHC, Scorpio, Sierra	86.00	1.60	3.43	AS5533	4 Cyl.	STD
						1.75	3.45			
						3.00	2.67			
								AS5534		STD
								AS5534010		0.50
								AS5534020		1.00
D3FA, D5BA, H6BA, F3FA1998 F1FA FMBA, HJBA, HJBB, HJBC, N7BA			2000-07	Turbo Diesel DOHC ABFA, D3FA, D5BA, H6BA, F3FA, F1FA FMBA, HJBA, HJBB, HJBC, N7BA	86.00	2.50	3.76	AS5535	1 Cyl.	STD
						2.00	3.78			
						3.00	3.33			
ABFA, D3FA, D5BA, D6BA1998 F3FA F1FA, FMBA, HJBA, HJBB, HJBC, N7BA			2000-07	Turbo Diesel DOHC ABFA, D3FA, D5BA, D6BA, F3FA F1FA, FMBA, HJBA, HJBB, HJBC, N7BA	86.00	2.00	3.76	AS5536	1 Cyl.	STD
						2.00	3.78			
						3.00	3.33			
ABFA, D3FA, D5BA, FMBA1998 ABFA, D3FA, D5BA, D6BA, F3FA, F1FA FMBA, HJBA, HJBB, HJBC, N7BA			2000-07	Turbo Diesel DOHC ABFA, D3FA, D5BA, FMBA ABFA, D3FA, D5BA, D6BA, F3FA, F1FA FMBA, HJBA, HJBB, HJBC, N7BA	86.00	2.00	3.76	AS5537	1 Cyl.	STD
						2.00	3.78			
						2.00	2.87	AS5537010		0.50
	1796	4	1984-88	, Granada 1800 GL/GHIA, Scorpio 1800 CL/GL/GHIA Sierra 1800 C/CL/L/GL/S	86.20	1.60	3.89	AS5538	4 Cyl.	STD
						2.00	3.91			
						4.00	4.24			
								AS5539		STD
								AS5539010		0.50
D2FA/B/E D4FA DT24H 2402 DT24N DT24P F4FA FXFA			1996-06	Turbo Diesel DI DOHC D2FA/B/E D4FA DT24H DT24N DT24P F4FA FXFA	89.90	2.50	3.91	AS5540	1 Cyl.	STD
						2.00	3.94			
						3.00	3.33	AS5540010		0.50
D0FA, H9FA, H9FB, JXFA2402 PHFA, PHFC			2000-07	Turbo Diesel TCI DOHC D0FA, H9FA, H9FB, JXFA, PHFA, PHFC	89.90	2.00	3.91	AS5541	1 Cyl.	STD
						2.00	3.94			
						2.00	2.87	AS5541010		0.50
SCB, SCC, VM	2500	4	1993-98	2.5L TD Turbo Diesel Scorpio	92.00	2.50	4.01	AS5542	1 Cyl.	STD
						2.00	4.04			
						4.00	4.24			

										
FORD EUROPEAN										
	3984	6	1994-On	Ford Falcon, ED, EF Australian, w/3.0mm Oil groove	92.25	1.20	3.73	AS5543	6 Cyl.	STD
						1.50	3.78	AS5543010		0.50
						3.00	2.79	AS5543020		0.75
								AS5543030		1.00
	3984	6	1994-On	Ford Falcon, ED, EF Australian, w/1.5mm Top Groove	92.25	1.50	3.48	AS5544	6 Cyl.	STD
						1.50	3.78	AS5544010		0.50
						3.00	3.81	AS5544020		0.75
								AS5544030		1.00
								AS5544040		1.50
								AS5545		STD
								AS5545010		0.50
								AS5545020		0.75
								AS5545030		1.00
								AS5545040		1.50
	3984	6	2002-On	Ford Falcon, ED, EF Australian, w/2.5mm Oil groove	92.25	1.20	3.73	AS5546	6 Cyl.	STD
						1.50	3.78	AS5546010		0.50
						2.50	2.79	AS5546020		0.75
								AS5546030		1.00
FORD JEEP										
		4		M151 Ford	98.43	2.38	4.62	AS5547	4 Cyl.	STD
						2.38	3.99	AS5547010		0.25
						4.75	4.88	AS5547020		0.50
								AS5547030		0.75
								AS5547040		1.00
								AS5547050		1.50
								AS5548		STD
								AS5548010		0.25
								AS5548020		0.50
								AS5548030		0.75
								AS5548040		1.00
								AS5548050		1.50
FORD MOTORS										
		4		Escort, Fiesta, Rocam, KA Zetec w/2.0mm oil grv. Fit Brazilian Mahle Piston	68.68	1.20	2.92	AS5601	4 Cyl.	STD
						1.50	3.07	AS5601010		0.50
						2.00	2.92			
	1300	4	1988-97	79cu. in. Ford, Mercury, Vin: H	71.00	1.20	3.12	AS5602	4 Cyl.	STD
						1.50	3.33	AS5602010		0.25
						3.00	1.14	AS5602020		0.50
								AS5602030		0.75
								AS5602040		1.00
								AS5602050		1.50
DHA, DHB, DHC, DHD, DH242 DHF, DHG		4	1996-02	FIESTA IV	71.90	1.20	2.92	AS5603	4 Cyl.	STD
						1.50	3.18			
						2.50	2.92			
97.6cu. in.	1597	4	1995-On	97 Escort DOHC	76.00	1.50	2.95	AS5604	4 Cyl.	STD
						1.60	3.23	AS5604010		0.50
						2.50	2.79	AS5604020		1.00
								AS5605		STD
								AS5605010		0.25
								AS5605020		0.50
								AS5605030		0.75

										
FORD MOTORS										
		4		Belina II, Corcel, Escort, Pampa, Gas/Alch Fit Brazilian Mahle Piston	77.00	1.75	3.07	AS5606	4 Cyl.	STD
						2.00	3.33	AS5606010		0.50
						4.00	3.43			
								AS5607		STD
		4		Escort, Pampa, AE1600 Fit Brazilian Mahle Piston	77.00	1.50	3.30	AS5608	4 Cyl.	STD
						1.50	3.68			
						2.00	2.92			
								AS5609		STD
								AS5609010		0.50
								AS5609020		1.00
		8	1932-45	Ford Brand 3 Ring Al Piston 85, 90 H.P.	77.79	2.38	3.68	AS5610	8 Cyl.	STD
			1937-42	Ford Brand 3 Ring Al Piston 85 H.P.		2.38	3.71			
						4.00	3.81			
		8	1932-45	All Models Ford 3 Ring Steel & Al Repl. Piston 85, 90 H.P.	77.79	2.38	3.68	AS5611	8 Cyl.	STD
			1937-42	Ford Brand 3 Ring Steel Piston or Al Repl. Piston 85 H.P.		2.38	3.71			
						4.00	3.81			
		8	1932-45	Ford 4 Ring Piston 85, 90 H.P.	77.79	2.38	3.68	AS5612	8 Cyl.	STD
			1937-42	4 Ring Piston 85, 90 H.P.		2.38	3.71	AS5612010		0.75
						4.00	3.81			
						4.00	3.71			
		4	1988-94	98cu. in. Mercury Tracer, Capri	78.00	1.50	2.97	AS5613	4 Cyl.	STD
97 cu. in.			1972-78	1600 Courier		1.50	3.38	AS5613010		0.25
110 cu. in.			1972-78	1800 Courier		4.00	3.30	AS5613020		0.50
								AS5613030		0.75
								AS5613040		1.00
								AS5613050		1.50
								AS5614		STD
								AS5614010		0.25
								AS5614020		0.50
								AS5614030		0.75
								AS5614040		1.00
								AS5614050		1.50
								AS5615		STD
								AS5615010		0.25
								AS5615020		0.50
								AS5615030		0.75
								AS5615040		1.00
								AS5615050		1.50
97 cu. in.		4		1586 Courier Australia	78.00	1.50	3.68	AS5616	4 Cyl.	STD
						2.00	3.71	AS5616010		0.25
						4.00	3.81	AS5616020		0.50
								AS5616030		0.75
								AS5616040		1.00
								AS5616050		1.50
	1596	4	2014-15	ECOBOOST DOHC INCL TURBO FUSION,	79.00	1.20	2.92	AS5617	4 Cyl.	STD
	1596		2013-15	ECOBOOST DOHC INCL TURBO, ESCAPE, FUSION, TITANIUM, TRANSIT CONNECT		1.20	3.10	AS5617010		1.25
						2.00	2.67			

										
FORD MOTORS										
	1600	4	1981-85	98cu. in. - 85 1/2 - Ford Escort, Mercury Lynx Ind. Turbo	79.94	1.60	3.78	AS5618	4 Cyl.	STD
						2.00	3.20	AS5618010		0.25
						4.00	4.39	AS5618020		0.50
								AS5618030		0.75
								AS5618040		1.00
								AS5618050		1.50
								AS5619		STD
								AS5619010		0.25
								AS5619020		0.50
								AS5619030		0.75
								AS5619040		1.00
								AS5619050		1.50
								AS5620		STD
								AS5620010		0.25
								AS5620020		0.50
								AS5620030		0.75
								AS5620040		1.00
								AS5620050		1.50
121 cu. in.	2000	4	1979-81	Courier	80.00	1.20	3.33	AS5621	4 Cyl.	STD
						1.50	3.48	AS5621010		0.25
						4.00	3.81	AS5621020		0.50
								AS5621030		0.75
								AS5621040		1.00
								AS5621050		1.50
121cu. in.		4	1982-84	Ford	80.00	1.50	3.18	AS5622	4 Cyl.	STD
121 cu. in.			1982-84			2.00	3.20	AS5622010		0.25
						4.00	1.27	AS5622020		0.50
								AS5622030		0.75
								AS5622040		1.00
								AS5623		STD
								AS5623010		0.25
								AS5623020		0.50
								AS5623030		0.75
								AS5623040		1.00
								AS5623050		1.50
110cu. in.	1796	4	1995-On	Escort EFI DOHC	80.60	1.50	3.58	AS5624	4 Cyl.	STD
						1.60	3.63	AS5624010		0.50
						2.50	2.92			
								AS5625		STD
								AS5625010		0.50
239cu. in.		8	1939-53	Ford 100 H.P. "Flat Head" 3 ring piston	80.96	2.00	3.58	AS5626	8 Cyl.	STD
						2.00	3.86	AS5626010		1.00
						4.75	4.39	AS5626020		1.50
								AS5626030		2.50
								AS5626040		3.13
								AS5626050		4.78
		4		Allied Sleeve Kit #WSA261 M & W Sleeve Kit SP28, 30, 31, 32-5, 33-5, 34-5, 35-5 Permite Sleeve Kit CSA261 White Machine Sleeve Kit #G190CH, G216CH	80.96	2.38	3.71	AS5627	4 Cyl.	STD
			1941-45	2N, 8N, 9N Ford 4 Ring Piston w/5/32 oil groove Repl. Piston 30 H.P.		2.38	3.23			
119 cu. in.						4.00	4.39			
						4.00	3.86			
239cu. in.		8	1946-49	Ford 100 H.P.	80.96	2.38	3.84	AS5628	8 Cyl.	STD
			1939-48	Mercury 4 Ring AI Piston		2.38	3.73	AS5628010		3.13
239 cu. in.			1939-49	95, 100 H.P. 4 Ring Piston		4.00	4.39			
						4.00	3.86			

										
FORD MOTORS										
239cu. in.		8	1949-53	Ford 100 H.P.	80.96	2.38	3.84	AS5629	8 Cyl.	STD
255cu. in.			1949-53	All Models Mercury 4 Ring Piston		2.38	3.73	AS5629010		0.75
239 cu. in.			1949-53	95, 100 H.P. 4 Ring Piston		4.75	4.39	AS5629020		1.00
						4.75	3.73	AS5629030		1.50
								AS5629040		2.00
								AS5629050		3.13
								AS5629060		4.78
								AS5630		STD
								AS5630010		1.50
								AS5630020		2.50
		4		2N, 8N, 9N Piston #8N6110 S/N 42162-on	80.96	2.38	3.71	AS5631	4 Cyl.	STD
						2.38	3.23			
						4.75	1.27			
		4		2N, 8N, 9N Ford 4 Ring Piston Also ava. in .083	80.96	2.38	3.71	AS5632	4 Cyl.	STD
						2.38	3.23	AS5632010		2.50
						4.75	4.39			
						4.75	3.73			
		4		2N, 2NAN, 8N, 8NAN, 9N, 9NAN For Sealed Power Piston #1630K, 1650K	80.96	2.38	3.71	AS5633	4 Cyl.	STD
						2.38	3.23			
						4.00	3.81			
						4.00	3.86			
		4		2N, 8N, 9N To S/N 42162	80.96	2.38	3.71	AS5634	4 Cyl.	STD
119 cu. in.			1941-45	Eng 3 Ring Piston 30 H.P. All Models Steel Sleeve		2.38	3.23			
						4.00	4.39			
153cu. in.	2495	6	2000-01	,AJ25 Mazda	81.60	1.20	3.12	AS5635	6 Cyl.	STD
						1.50	3.89	AS5635010		0.50
						3.00	3.43	AS5635020		0.75
								AS5635030		1.00
116cu. in.		4	1987-96	Ford, Mercury	81.94	1.50	3.86	AS5636	4 Cyl.	STD
						1.50	3.25	AS5636010		0.50
						3.00	3.18	AS5636020		0.75
								AS5636030		1.00
								AS5637		STD
								AS5637010		0.25
								AS5637020		0.50
								AS5637030		0.75
								AS5637040		1.00
								AS5637050		1.50
116cu. in.		4	1985-86	Ford, Mercury	82.00	1.50	3.86	AS5638	4 Cyl.	STD
						1.50	3.25	AS5638010		0.50
						4.00	3.18	AS5638020		0.75
								AS5638030		1.00
								AS5638040		1.50
								AS5639		STD
								AS5639010		0.50
								AS5639020		0.75
								AS5639030		1.00
								AS5639040		1.50
	1596	4		DOHC 16V Made in China	82.00	1.20	3.12	AS5640	4 Cyl.	STD
						1.50	3.25	AS5640010		0.50
						2.00	3.18	AS5640020		0.75
97.6 cu. in.	1600	4	2003-On	9 Fiesta, Rocam, Zetec Made in Brazil	82.04	1.20	3.33	AS5641	4 Cyl.	STD
97.6 cu. in.	1600		2000-On	9 Courier Made in Brazil		1.50	3.23	AS5641010		0.50
						2.00	2.92	AS5641020		0.75
								AS5641030		1.00
								AS5641040		1.50

										
FORD MOTORS										
153cu. in.	6	1995-02	DOHC, Vin: G,L Contour, Modeo	82.40	1.20	3.12		AS5642	6 Cyl.	STD
					1.50	3.91		AS5642010		0.50
					3.00	3.43		AS5642020		0.75
								AS5642030		1.00
207cu. in.	8	1996-99	, SHO Vin: N	82.40	1.20	3.12		AS5643	8 Cyl.	STD
					1.50	3.91		AS5643010		0.25
					3.00	3.43		AS5643020		0.50
								AS5643030		0.75
								AS5643040		1.00
112cu. in.	4	1991-98	Mercury	83.00	1.50	3.20		AS5644	4 Cyl.	STD
					1.50	3.25		AS5644010		0.25
					3.00	3.30		AS5644020		0.50
								AS5644030		1.00
								AS5645		STD
								AS5645010		0.25
								AS5645020		0.50
								AS5645030		0.75
								AS5645040		1.00
								AS5645050		1.50
								AS5646		STD
121cu. in.	1991	4	1993-97 , DOHC Vin: A	83.00	1.20	3.12		AS5647	4 Cyl.	STD
					1.50	3.25		AS5647010		0.25
					3.00	3.30		AS5647020		0.50
								AS5647030		0.75
								AS5647040		1.00
110cu. in.	1798	4	Focus, DOHC Duratec Made in China	83.00	1.20	3.12		AS5648	4 Cyl.	STD
					1.20	3.35				
					AS5643	2.50				
152cu. in.	2497	6	1993-97 , Vin: B	84.50	1.50	3.43		AS5649	6 Cyl.	STD
					1.50	3.84		AS5649010		0.50
					3.00	3.18		AS5649020		0.75
								AS5649030		1.00
								AS5650		STD
								AS5650010		0.50
								AS5650020		0.75
								AS5650030		1.00
121cu. in.	1991	4	Vin: B,3 Spec 2nd ring gap .026 to .036	84.86	1.50	3.25		AS5651	4 Cyl.	STD
					1.75	3.84		AS5651010		0.50
					3.00	3.56		AS5651020		0.75
								AS5651030		1.00
121cu. in.	1991	4	1995-02 Escort, Vin: P	84.86	1.50	3.43		AS5652	4 Cyl.	STD
					1.50	4.04		AS5652010		0.50
					3.00	3.56		AS5652020		0.75
								AS5652030		1.00
								AS5653		STD
								AS5653010		0.50
								AS5653020		0.75
								AS5653030		1.00
	1991	4	1998-04	84.86	1.50	3.25		AS5654	4 Cyl.	STD
					1.75	3.84				
					3.00	3.56				
121cu. in.	4	1997-04	Escort, Focus Vin: P,5 SOHC/DOHC	84.86	1.20	3.33		AS5655	4 Cyl.	STD
					1.50	4.04		AS5655010		0.50
					3.00	3.56		AS5655020		0.75
								AS5655030		1.00
122cu. in.	4		Diesel Ford	85.98	2.00	3.71		AS5656	4 Cyl.	STD
					2.00	3.89		AS5656010		0.25
					4.00	3.78		AS5656020		0.50
								AS5656030		0.75
								AS5656040		1.00

										
FORD MOTORS										
240cu. in.		8	2000-06	DOHC Vin: A	86.00	1.20	3.33	AS5657	8 Cyl.	STD
						1.50	3.43	AS5657010		0.50
						2.50	3.05	AS5657020		0.75
								AS5657030		1.00
134cu. in.		4	1989-94	Ford Probe Incl. Turbo	86.00	1.50	3.45	AS5658	4 Cyl.	STD
						1.50	3.78	AS5658010		0.50
						4.00	3.68	AS5658020		0.75
								AS5658030		1.00
								AS5658040		1.50
								AS5659		STD
								AS5659010		0.25
								AS5659020		0.50
								AS5659030		0.75
								AS5659040		1.00
								AS5659050		1.50
								AS5660		STD
								AS5660010		0.25
								AS5660020		0.50
								AS5660030		0.75
								AS5660040		1.00
								AS5660050		1.50
								AS5661		STD
183cu. in.		6	1993-98	Villager, Vin: W,1	87.00	1.50	3.33	AS5662	6 Cyl.	STD
						1.50	4.14	AS5662010		0.50
						2.80	3.30	AS5662020		0.75
								AS5662030		1.00
								AS5663		STD
								AS5663010		0.50
								AS5663020		0.75
								AS5663030		1.00
134 cu. in.		4		E134, JE	87.31	2.25	4.11	AS5664	4 Cyl.	STD
134 cu. in.				NAA, 501, 541, 600, 601, 700, 701, * 2000, NAB, 600K Series, EAE, EBD		2.25	4.14			
						4.75	1.27			
122cu. in.	1999	4	2001-12	, Escape, Focus DOHC DURATEC Mazda	87.50	1.20	3.12	AS5665	4 Cyl.	STD
	2261		2004-12	138 cu. in Escape, Focus, Fusion Mazda		1.20	3.33	AS5665010		0.25
138 cu. in.	2261		2001-12	, Ranger Mazda		2.50	2.92	AS5665020		0.50
								AS5665030		0.75
								AS5665040		1.00
								AS5666		STD
								AS5666010		0.50
		8	1949	All Models Lincoln 4 Ring Piston	88.90	2.38	4.19	AS5667	8 Cyl.	STD
337 cu. in.			1948-51	4 Ring Piston		2.38	4.22			
						4.75	1.27			
						4.75	3.99			
254 cu. in.		6	1949-52	8MB, 112 H.P. 3 Ring Piston	88.90	2.38	4.19	AS5668	6 Cyl.	STD
						2.38	4.22			
						4.75	1.27			
239cu. in.		8	1954	Ford 130 H.P.	88.90	2.38	4.19	AS5669	8 Cyl.	STD
			1949-51	All Models Lincoln 3 Ring Piston		2.38	4.22	AS5669010		0.50
239 cu. in.			1954-55	3 Ring Piston		4.75	1.27	AS5669020		1.00
337 cu. in.			1948-52	3 Ring Piston				AS5670		STD

										
FORD MOTORS										
170cu. in.		6	1960-67	144, 1 Ford	88.90	2.00	4.19	AS5671	6 Cyl.	STD
170cu. in.			1968-72			2.00	4.22	AS5671010		0.13
170 cu. in.			1961-69	144, Engs.		4.75	4.39	AS5671020		0.75
170 cu. in.			1970-71	144, Engs.				AS5671030		1.00
								AS5671040		1.50
								AS5672		STD
								AS5672010		0.13
								AS5673		STD
								AS5673010		0.75
								AS5673020		1.00
								AS5673030		0.13
134cu. in.	2200	4	1983-84	Diesel B2200 Ford	88.90	2.38	3.63	AS5674	4 Cyl.	STD
134 cu. in.			1983-84	Diesel Vin: P SOHC Mazda B2200		2.38	3.66	AS5674010		0.25
						4.75	4.24	AS5674020		0.50
								AS5674030		0.75
								AS5674040		1.00
								AS5674050		1.50
		4		600, 700 NAA Gas INCREASE BORE SLEEVE KIT	88.90	2.38	4.19	AS5675	4 Cyl.	STD
						2.38	4.22			
						4.75	3.90			
221cu. in.		8	1962-63	Ford, Mercury	88.90	2.00	4.19	AS5676	8 Cyl.	STD
221 cu. in.			1962-63			2.00	4.22	AS5676010		0.75
221 cu. in.						4.75	3.90	AS5676020		1.00
								AS5676030		1.50
								AS5677		STD
								AS5677010		0.25
								AS5677020		0.50
								AS5677030		0.75
								AS5677040		1.00
								AS5678		STD
								AS5678010		0.75
								AS5678020		1.00
183cu. in.		6	1989-95	Ford Taurus, Mercury SHO	89.00	1.20	3.73	AS5679	6 Cyl.	STD
						1.50	4.01	AS5679010		0.50
						2.80	3.30	AS5679020		0.75
								AS5679030		1.00
183cu. in.		6	1996-00	Vin: S Durtec/24V	89.00	1.20	3.73	AS5680	6 Cyl.	STD
						1.50	4.01	AS5680010		0.25
						3.00	3.81	AS5680020		0.50
								AS5680030		0.75
								AS5680040		1.00
								AS5680050		1.50
183cu. in.		6	2000-12	Vin: S,U,V,1,2 w/2.5mm oil ring	89.00	1.20	3.33	AS5681	6 Cyl.	STD
183 cu. in.			2001-05	, Vin: S,U,V,2 w/2.5mm oil ring		1.50	4.01	AS5681010		0.25
						2.50	3.81	AS5681020		0.50
								AS5681030		0.75
								AS5681040		1.00
183cu. in.		6	1998-01	w/3.00mm oil ring	89.00	1.50	3.38	AS5682	6 Cyl.	STD
183 cu. in.			1998-01	, Ranger w/3.00mm oil ring		1.50	4.01	AS5682010		0.25
						3.00	3.81	AS5682020		0.50
								AS5682030		0.75
								AS5682040		1.00
								AS5682050		1.50
								AS5683		STD
								AS5683010		0.25
								AS5683020		0.50
								AS5683030		0.75
								AS5683040		1.00
								AS5683050		1.50

										
FORD MOTORS										
152cu. in.		4	2009-14	DOHC 16V Duratec 25 Escape, Fusion, Milan	89.00	1.20	3.33	AS5684	4 Cyl.	STD
						1.20	3.68	AS5684010		0.25
						2.50	2.79	AS5684020		0.50
								AS5684030		0.75
								AS5684040		1.00
183cu. in.		6	1986-00	Ford Aerostar, Mercury Vin:U Exc: SHO Shallow Oil Ring Groove Flex-fuel use 2C5762	89.00	1.50	3.38	AS5685	6 Cyl.	STD
183 cu. in.			1986-00	, Vin: U		1.50	4.01	AS5685010		0.25
						4.00	3.30	AS5685020		0.50
								AS5685030		0.75
								AS5685040		1.00
								AS5685050		1.50
								AS5686		STD
								AS5686010		0.25
								AS5686020		0.50
								AS5686030		0.75
								AS5686040		1.00
								AS5687		STD
								AS5687010		0.25
								AS5687020		0.50
								AS5687030		0.75
								AS5687040		1.00
122 cu. in.		4	1983-89	Ranger	89.32	2.00	3.38	AS5688	4 Cyl.	STD
						2.00	3.99	AS5688010		0.50
						4.75	4.88	AS5688020		0.75
								AS5688030		1.00
								AS5688040		1.50
								AS5689		STD
								AS5689010		0.50
								AS5689020		0.75
								AS5689030		1.00
								AS5689040		1.50
								AS5690		STD
								AS5690010		0.50
								AS5690020		0.75
								AS5690030		1.00
								AS5690040		1.50
	1700	4		104 GF-SAAB V/4	90.00	2.00	4.24	AS5691	4 Cyl.	STD
	2000					3.00	4.27			
						4.00	4.39			
159cu. in.	2600	6	1972-74	Mercury Capri	90.00	2.00	4.24	AS5692	6 Cyl.	STD
						3.00	4.27			
						4.00	1.27			
281cu. in.		8	1991-14	Lincoln, Mercury, SOHC Vin: L,V,W,X,6	90.20	1.50	3.45	AS5693	8 Cyl.	STD
281 cu. in.			1996-14	Vin: V,W,X,6		1.50	3.78	AS5693010		0.25
330 cu. in.			1996-14	Vin: A,L,R,3,5		3.00	3.81	AS5693020		0.50
								AS5693030		0.75
								AS5693040		1.00
								AS5693050		1.50
								AS5694		STD
								AS5694010		0.13
								AS5694020		0.25
								AS5694030		0.50
								AS5694040		0.75
								AS5694050		1.00
								AS5694060		1.50
330cu. in.		8	2006-14	Mustang Vin: S w/2.5mm oil grv.	90.20	1.50	3.45	AS5695	8 Cyl.	STD
						1.50	3.78			
						2.50	2.92			

										
FORD MOTORS										
415 cu. in.	10	1996-14	Vin: S,Y	90.20	1.50	3.45		AS5696	10 Cyl.	STD
					1.50	3.78		AS5696010		0.25
					3.00	3.81		AS5696020		0.50
								AS5696030		0.75
								AS5696040		1.00
								AS5697		STD
								AS5697010		0.25
								AS5697020		0.50
								AS5697030		0.75
								AS5697040		1.00
								AS5697050		1.50
281cu. in.	8	1998-06	DOHC, Triton 32 Valve Vin: V,X,9	90.20	1.20	3.53		AS5698	8 Cyl.	STD
					1.50	3.78		AS5698010		0.25
					3.00	3.81		AS5698020		0.50
								AS5698030		0.75
								AS5698040		1.00
								AS5698050		1.50
215cu. in.	6	1952-53	Ford	90.49	2.38	3.66		AS5699	6 Cyl.	STD
215 cu. in.		1952-53			2.38	4.29		AS5699010		0.50
					4.75	4.62		AS5699020		0.75
								AS5699030		1.00
								AS5699040		2.00
								AS56100		STD
								AS56100010		0.75
								AS56100010		1.00
144 cu. in.	4		501, 601, 701, 2000, 3000 Diesel	90.49	2.38	4.27		AS56101	4 Cyl.	STD
					2.38	4.29		AS56101010		1.00
					2.38	4.29				
					4.75	2.49				
140 cu. in.	4	1985-87	Diesel Turbo	91.10	2.50	4.04		AS56102	4 Cyl.	STD
					2.00	4.06		AS56102010		0.50
					4.00	4.24		AS56102020		0.75
								AS56102030		1.00
250cu. in.	6	1989-92	E.A. Falcon OHC Australia	91.86	1.50	3.45		AS56103	6 Cyl.	STD
					1.50	4.06		AS56103010		0.50
					4.00	4.11		AS56103020		0.75
								AS56103030		1.00
								AS56103040		1.50
								AS56104		STD
								AS56104010		0.50
								AS56104020		0.75
								AS56104030		1.00
								AS56104040		1.50
192cu. in.	6	1993-96	Ford Taurus SHO Yamaha	92.00	1.20	3.73		AS56105	6 Cyl.	STD
					1.50	4.09		AS56105010		0.50
					2.80	1.14		AS56105020		1.00
223cu. in.	6	1954-64	Ford, Edsel Ranger	92.08	2.38	4.06		AS56106	6 Cyl.	STD
223 cu. in.		1954-64	JF, F223		2.38	4.09		AS56106010		0.50
223 cu. in.			3 Ring Piston		4.75	1.27		AS56106020		0.75
								AS56107		STD
272cu. in.	8	1955-57	Ford	92.08	2.38	4.06		AS56108	8 Cyl.	STD
		1954	All Models Mercury		2.38	4.09		AS56108010		0.50
272 cu. in.		1954-59	J272, JH, JJ		4.75	1.27		AS56108020		0.75
272 cu. in.			256,					AS56109		STD

										
FORD MOTORS										
		8		Ford Hepolite Piston #13394	92.08	2.38	4.06	AS56110	8 Cyl.	STD
272 cu. in.			1955-58	Hepolite Piston #13394		2.38	4.09			
						4.75	1.27			
						4.75	3.86			
242 cu. in.		6		Diesel 6000	92.08	2.38	4.32	AS56111	6 Cyl.	STD
						2.38	4.09			
						2.38	4.09			
						4.75	2.39			
233 cu. in.		6		Gas 6000	92.08	2.38	4.32	AS56112	6 Cyl.	STD
						2.38	4.09			
						4.75	1.27			
302cu. in.	4951	8	2011-14	Mustang Vin: F,U	92.20	1.20	3.61	AS56113	8 Cyl.	STD
302 cu. in.	4951		2011-14	Vin: F,U F150		1.20	3.81	AS56113010		0.50
						2.50	2.92	AS56113020		0.75
213cu. in.		6	2007-14	DOHC 24V Duratec 35 Edge, Fusion, MKX, Sable, Taurus	92.50	1.20	2.92	AS56114	6 Cyl.	STD
						1.50	3.78	AS56114010		0.50
						2.50	2.92	AS56114020		0.75
								AS56114030		1.00
PRE, PRT, PYA, PRD, PRQ800 PRB, PRG, PYU, PR6, PR, PR8, PR7		6	1974-79	171cu. in. Ford, Mercury Bobcat & Capri	93.00	2.00	4.34	AS56115	6 Cyl.	STD
171 cu. in.			1983-86	Aerostar, Ranger Vin: S		2.50	4.37	AS56115010		0.50
						4.00	4.50	AS56115020		0.75
								AS56115030		1.00
								AS56115040		1.50
								AS56116		STD
								AS56116010		0.50
								AS56116020		0.75
								AS56116030		1.00
								AS56116040		1.50
177cu. in.		6	1986-92	Ford, Mercury Vin: T,V	93.00	1.60	4.09	AS56117	6 Cyl.	STD
177 cu. in.			1986-95			1.75	4.11	AS56117010		0.50
						3.50	1.27	AS56117020		0.75
								AS56117030		1.00
								AS56117040		1.50
								AS56118		STD
								AS56118010		0.50
								AS56118020		0.75
								AS56118030		1.00
								AS56118040		1.50
								AS56119		STD
								AS56119010		0.50
								AS56119020		0.75
								AS56119030		1.00
								AS56119040		1.50
	2499	4	2006-11	BT-50 WL-C TDI diesel (Check Ring Widths) Mazda	93.00	2.00	3.40	AS56120	4 Cyl.	STD
						1.50	3.65			
						2.00	3.00			
250cu. in.		6		X-EFI, OHC Ford Falcon Australia	93.47	1.50	3.51	AS56121	6 Cyl.	STD
						1.50	3.84	AS56121010		0.75
						4.00	4.11	AS56121020		1.00
								AS56121030		1.50
								AS56122		STD
								AS56122010		0.75
								AS56122020		1.00
								AS56122030		1.50

										
FORD MOTORS										
250cu. in.	6			200, 2 For ACL Duralite Pistons Shallow Oil Ring Groove	93.47	2.00	4.42	AS56123	6 Cyl.	STD
250 cu. in.				200, Ford For ACL Duralite Shallow Oil Ring Groove		2.00	4.14	AS56123010		0.25
						4.75	4.50	AS56123020		0.50
								AS56123030		0.75
								AS56123040		1.00
								AS56123050		1.50
								AS56124		STD
								AS56124010		0.50
								AS56124020		0.75
								AS56124030		1.00
								AS56124040		1.50
								AS56125		STD
								AS56125010		0.50
								AS56125020		0.75
								AS56125030		1.00
								AS56125040		1.50
255cu. in.	8			1980-82 Ford, Mercury	93.47	2.00	4.42	AS56126	8 Cyl.	STD
255 cu. in.				1981-82		2.00	4.14	AS56126010		0.50
						4.75	1.27	AS56126020		0.75
								AS56126030		1.00
								AS56126040		1.50
								AS56127		STD
								AS56127010		0.50
								AS56127020		0.75
								AS56127030		1.00
								AS56127040		1.50
								AS56128		STD
								AS56128010		0.50
								AS56128020		0.75
								AS56128030		1.00
								AS56128040		1.50
140cu. in.	4			1984-94 Ford, Mercury Hi-Swirl Combustion OHV	93.47	2.00	4.42	AS56129	4 Cyl.	STD
153cu. in.				1986-91 Ford Hi-Swirl Combustion		2.00	4.14	AS56129010		0.50
						4.75	4.75	AS56129020		0.75
								AS56129030		1.00
								AS56129040		1.50
								AS56130		STD
								AS56130010		0.50
								AS56130020		0.75
								AS56130030		1.00
								AS56130040		1.50
								AS56131		STD
								AS56131010		0.50
								AS56131020		0.75
								AS56131030		1.00
200cu. in.	6			1963-84 Ford	93.47	2.00	4.42	AS56132	6 Cyl.	STD
250cu. in.				1969-80 Ford		2.00	4.14	AS56132010		0.25
200 cu. in.				1963-84		4.75	4.50	AS56132020		0.50
250 cu. in.				1969-77				AS56132030		0.75
								AS56132040		1.00
								AS56132050		1.50
								AS56132060		2.00
								AS56133		STD
								AS56133010		0.25
								AS56133020		0.50
								AS56133030		0.75
								AS56133040		1.00
								AS56133050		1.50
								AS56133060		2.00
								AS56134		STD
								AS56134010		0.50
								AS56134020		0.75
								AS56134030		1.00
								AS56134040		1.50
								AS56134050		2.00

										
FORD MOTORS										
262 cu. in.		6			94.49	2.00	4.45	AS56135	6 Cyl.	STD
262 cu. in.			1961-64			2.00	4.47	AS56135010		0.75
						4.75	4.75	AS56135020		1.00
								AS56135030		1.50
363 cu. in.		8	2003-10	Diesel Incl. Turbo VT 365 International Power Stroke Special .055 to .065 gap 2nd Rings	95.00	2.38	3.86	AS56136	8 Cyl.	STD
						2.00	4.19	AS56136010		0.25
						3.50	4.42	AS56136020		0.50
								AS56136030		0.75
								AS56136040		1.00
292cu. in.		8	1955-62	Ford, Edsel Ranger	95.25	2.00	4.47	AS56137	8 Cyl.	STD
			1955	All Models Mercury		2.00	4.50	AS56137010		0.25
292 cu. in.			1958-64	K292		4.75	1.27	AS56137020		0.50
292 cu. in.				Medium & Heavy Duty				AS56137030		0.75
								AS56137040		1.00
								AS56137050		1.50
								AS56137060		2.00
								AS56137070		2.50
								AS56138		STD
								AS56138010		0.25
								AS56138020		0.50
								AS56138030		0.75
								AS56138040		1.00
								AS56138050		1.50
								AS56139		STD
								AS56139010		0.25
								AS56139020		0.50
								AS56139030		0.75
								AS56139040		1.00
								AS56139050		1.50
								AS56139060		2.00
								AS56139070		2.50
		4	1916-27	T Ford AI Piston	95.25	3.18	4.17	AS56140	4 Cyl.	STD
						3.18	3.94	AS56140010		1.00
						4.75	4.19			
227cu. in.		6	2009-14	DOHC Vin:K,M,N,R Lincoln, Mustang	95.50	1.20	3.61	AS56141	6 Cyl.	STD
227 cu. in.			2009-14	DOHC Duratec 37 Edge, F150		1.50	4.19	AS56141010		0.50
						2.50	3.30	AS56141020		0.75
								AS56141030		1.00
140cu. in.	2300	4	1974-84	Ford	96.00	2.00	3.71	AS56142	4 Cyl.	STD
140 cu. in.			1977-84			2.00	4.22	AS56142010		0.50
						4.75	5.21	AS56142020		0.75
								AS56142030		1.00
								AS56142040		1.50
								AS56143		STD
								AS56143010		0.25
								AS56143020		0.50
								AS56143030		0.75
								AS56143040		1.00
								AS56143050		1.50
								AS56144		STD
								AS56144010		0.25
								AS56144020		0.50
								AS56144030		0.75
								AS56144040		1.00
								AS56144050		1.50
151 cu. in.		4	1998-01	L4, Vin: C Ranger	96.00	1.50	3.94	AS56145	4 Cyl.	STD
						1.50	3.73	AS56145010		0.50
						3.00	3.81	AS56145020		0.75
								AS56145030		1.00
								AS56145040		1.50

										
FORD MOTORS										
								AS56146	STD	
								AS56146010	0.50	
								AS56146020	0.75	
								AS56146030	1.00	
								AS56146040	1.50	
140 cu. in.	2300	4	1995-97 , Vin: A Ranger,		96.00	1.50	3.94	AS56147	4 Cyl.	STD
						1.50	3.73	AS56147010	0.50	
						3.00	3.30	AS56147020	0.75	
								AS56147030	1.00	
								AS56147040	1.50	
								AS56148	STD	
								AS56148010	0.50	
								AS56148020	0.75	
								AS56148030	1.00	
								AS56148040	1.50	
								AS56149	STD	
								AS56149010	0.50	
								AS56149020	0.75	
								AS56149030	1.00	
								AS56149040	1.50	
140cu. in.	2300	4	1979-89 Ford Turbo		96.00	2.00	4.47	AS56150	4 Cyl.	STD
						2.00	4.22	AS56150010	0.50	
						4.75	1.27	AS56150020	0.75	
								AS56150030	1.00	
140cu. in.		4	1985-97 Ford, Mercury OHC Vin: A		96.00	1.50	3.94	AS56151	4 Cyl.	STD
140 cu. in.			1985-94 , Vin: A			1.50	3.73	AS56151010	0.50	
						4.00	3.56	AS56151020	0.75	
								AS56151030	1.00	
								AS56151040	1.50	
								AS56152	STD	
								AS56152010	0.50	
								AS56152020	0.75	
								AS56152030	1.00	
								AS56152040	1.50	
								AS56153	STD	
								AS56153010	0.50	
								AS56153020	0.75	
								AS56153030	1.00	
								AS56153040	1.50	
260cu. in.		8	1962-65 Ford		96.52	2.00	3.71	AS56154	8 Cyl.	STD
312cu. in.			1956-57 Ford			2.38	4.24	AS56154010	0.75	
312 cu. in.			1962-64 260,			4.75	4.62	AS56154020	1.00	
								AS56154030	1.50	
								AS56155	STD	
								AS56155010	0.75	
								AS56155020	1.00	
								AS56155030	1.50	
								AS56156	STD	
								AS56156010	0.75	
								AS56156020	1.00	
								AS56156030	1.50	
317cu. in.		8	1952-54 All Models Lincoln		96.52	2.00	3.71	AS56157	8 Cyl.	STD
332 cu. in.			1952-57 317, Engs. Sterling Piston H791P			2.00	4.57	AS56157010	0.25	
						4.75	4.62	AS56157020	0.50	
								AS56157030	0.75	
								AS56157040	1.00	
								AS56157050	1.50	
								AS56158	STD	
								AS56158010	0.25	
								AS56158020	0.50	
								AS56158030	0.75	
								AS56158040	1.00	
								AS56158050	1.50	
								AS56159	STD	
								AS56159010	0.50	
								AS56159020	0.75	
								AS56159030	1.00	
								AS56159040	1.50	

										
FORD MOTORS										
232cu. in.		6	1988-95	Ford, Lincoln, Mercury	96.80	1.50	3.63	AS56160	6 Cyl.	STD
232 cu. in.			1988-95			1.50	4.22	AS56160010		0.50
						4.00	3.18	AS56160020		0.75
								AS56160030		1.00
								AS56160040		1.50
								AS56161		STD
								AS56161010		0.50
								AS56161020		0.75
								AS56161030		1.00
								AS56161040		1.50
232cu. in.		6	1988-95	Ford Supercharged	96.80	1.50	4.55	AS56162	6 Cyl.	STD
						1.50	4.22	AS56162010		0.50
						4.00	3.18	AS56162020		0.75
								AS56162030		1.00
232cu. in.		6	1996-04	Ford, Mercury Vin: 4	96.80	1.50	3.63	AS56163	6 Cyl.	STD
232 cu. in.			1996-03	Windstar Vin: 4		1.50	4.22	AS56163010		0.25
238 cu. in.			2005-07	Vin: 6		3.00	3.94	AS56163020		0.50
256 cu. in.			1997-07	Vin: 2,4				AS56163030		0.75
								AS56163040		1.00
								AS56163050		1.50
								AS56164		STD
								AS56164010		0.25
								AS56164020		0.50
								AS56164030		0.75
								AS56164040		1.00
								AS56164050		1.50
								AS56165		STD
								AS56165010		0.75
								AS56165020		1.00
232cu. in.		6	1982-87	Ford, Lincoln, Mercury	96.80	2.00	4.22	AS56166	6 Cyl.	STD
232 cu. in.			1981-87			2.00	4.22	AS56166010		0.50
						4.00	4.50	AS56166020		0.75
								AS56166030		1.00
								AS56166040		1.50
								AS56167		STD
								AS56167010		0.50
								AS56167020		0.75
								AS56167030		1.00
								AS56167040		1.50
								AS56168		STD
								AS56168010		0.50
								AS56168020		0.75
								AS56168030		1.00
								AS56168040		1.50
391 cu. in.		8		Vin: R 32V Turbo V8 Power Stroke DIESEL	98.20	2.50	3.84	AS56169	8 Cyl.	STD
						2.00	4.42	AS56169010		0.25
						3.00	3.30	AS56169020		0.50
								AS56169030		0.75
A, B, A, AA, BB		4	1928-33	A, AA, BB Late 1928 Ford	98.43	3.18	3.96	AS56170	4 Cyl.	STD
200 cu. in.			1928-34			3.18	3.99	AS56170010		0.75
			1928-33	A, B		4.00	4.24	AS56170020		1.00
				A, AA, BB Late 1928				AS56170030		1.50
								AS56170040		2.00
								AS56170050		2.50
								AS56170060		3.13
330 cu. in.		8	1964-77	Zollner Piston #3289	98.43	2.38	4.62	AS56171	8 Cyl.	STD
						2.00	4.65			
						4.75	4.88			
		8		HD330	98.43	2.00	4.62	AS56172	8 Cyl.	STD
330 cu. in.			1964-67	Eng Heavy Duty		2.38	3.99	AS56172010		0.25
						6.35	4.88	AS56172020		0.50
								AS56172030		0.75

										
FORD MOTORS										
		8		MD330	98.43	2.00	4.62	AS56173	8 Cyl.	STD
330 cu. in.			1964-84	Medium		2.38	3.99	AS56173010		0.25
330 cu. in.				Medium Duty		4.75	4.88	AS56173020		0.50
								AS56173030		0.75
								AS56173040		1.00
								AS56173050		1.50
								AS56173060		2.00
								AS56174		STD
								AS56174010		0.25
								AS56174020		0.50
								AS56174030		0.75
								AS56174040		1.00
								AS56174050		1.50
								AS56174060		2.00
								AS56175		STD
								AS56175010		0.50
								AS56175020		0.75
								AS56175030		1.00
								AS56175040		1.50
								AS56175050		2.00
		8		HD330	98.43	2.00	4.62	AS56176	8 Cyl.	STD
330 cu. in.			1967-69	Heavy Duty - 4 Ring Piston		2.00	4.65	AS56176010		0.50
						2.00	4.65	AS56176020		0.75
						4.75	4.88	AS56176030		1.00
								AS56176040		1.50
								AS56177		STD
								AS56177010		0.50
								AS56177020		0.75
								AS56177030		1.00
								AS56177040		1.50
330 cu. in.		8		Heavy Duty	98.43	2.38	4.62	AS56178	8 Cyl.	STD
330 cu. in.			1970-84	Heavy Duty - 4 Ring Piston		2.00	4.65	AS56178010		0.25
						2.00	4.65	AS56178020		0.50
						4.75	4.88	AS56178030		0.75
								AS56178040		1.00
								AS56178050		1.50
								AS56179		STD
335 cu. in.		8	1968-84	Produced in Mexico	99.06	2.00	4.67	AS56180	8 Cyl.	STD
						2.00	4.70	AS56180010		0.50
						2.00	4.70	AS56180020		0.75
						4.75	4.88	AS56180030		1.00
406 cu. in.		8	2011-14	32V Vln;T Power Stroke Turbo OHV direct injection	99.00	3.00	3.81	AS56181	8 Cyl.	STD
						2.00	3.84	AS56181010		0.25
						2.50	2.87	AS56181020		0.50
								AS56181030		0.75
								AS56181040		1.00
172 cu. in.		4		D172 3 Groove Piston	99.06	2.50	4.67	AS56182	4 Cyl.	STD
172 cu. in.				Gas 800, 801, 900, 901, 1801, 4000 Series EAF, EBE		2.38	4.70			
						4.75	4.88			
172 cu. in.		4		DD172 5 Groove Piston	99.06	2.50	4.67	AS56183	4 Cyl.	STD
172 cu. in.				Diesel 801, 841, 901, 1801, 4000D		2.38	4.70			
						2.38	4.70			
						4.75	2.64			
						4.75	4.34			

										
FORD MOTORS										
341cu. in.		8	1955	All Models Linclon	100.01	2.00	4.34	AS56184	8 Cyl.	STD
341 cu. in.			1955	EBJ		2.00	4.37	AS56184010		0.75
						4.75	1.27			
244cu. in.		6	1990-01	Vin: E,X	100.40	1.60	4.11	AS56185	6 Cyl.	STD
244 cu. in.			1990-01	Vin: E, X, SOHC, OHV		1.75	4.14	AS56185010		0.50
						3.50	3.61	AS56185020		0.75
								AS56185030		1.00
								AS56185040		1.50
								AS56186		STD
								AS56186010		0.25
								AS56186020		0.50
								AS56186030		0.75
								AS56186040		1.00
								AS56186050		1.50
		6	2002-11	245cu. in Vin: E,K SOHC	100.40	1.20	3.73	AS56187	6 Cyl.	STD
245 cu. in.			2002-11	Vin: E,K SOHC		1.50	4.14	AS56187010		0.25
						3.00	3.30	AS56187020		0.50
								AS56187030		0.75
								AS56187040		1.00
289 C.I.D.		8	1963-68	4.7L FORD, MERCURY	101.60	2.00	4.78	AS56188	8 Cyl.	STD
302 C.I.D.		8	1968-86	5.0L FORD, LINCOLN, MERCURY		2.00	4.80	AS56188010		0.25
351 C.I.D. VIN.# C, M, W		8	1968-95	5.8L FORD, LINCOLN, MERCURY		4.75	4.88	AS56188020		0.50
352 C.I.D.		8	1966	FORD				AS56188030		0.75
400 C.I.D		8	1971-86	6.6L FORD, LINCOLN, MERCURY				AS56188040		1.00
								AS56188050		1.50
								AS56188060		1.75
								AS56188070		2.00
								AS56188080		2.50
								AS56189		STD
								AS56189010		0.25
								AS56189020		0.50
								AS56189030		0.75
								AS56189040		1.00
								AS56189050		1.50
								AS56189060		1.75
								AS56189070		2.00
								AS56190		STD
								AS56190010		0.13
								AS56190020		0.25
								AS56190030		0.50
								AS56190040		0.75
								AS56190050		1.00
								AS56190060		1.50
								AS56190070		1.75
								AS56190080		2.00
								AS56190090		2.50
302cu. in.		8	1986-95	Ford, Mercury, Vin: N Exc. "Lightning"	101.60	1.50	3.96	AS56191	8 Cyl.	STD
302 cu. in.			1986-92			1.50	4.37	AS56191010		0.50
302 cu. in.			1986-95	Exc. "Lightning"		4.00	3.48	AS56191020		0.75
351 cu. in.			1995-98	Vin: W Shallow Oil Grv. Exc. "Lightning"				AS56191030		1.00
								AS56191040		1.50
								AS56192		STD
								AS56192010		0.25
								AS56192020		0.50
								AS56192030		0.75
								AS56192040		1.00
								AS56192050		1.50

										
FORD MOTORS										
302cu. in.		8	1996-01	Ford, Mercury, Vin: N Shallow Top & Oil Grv., "Lightning"	101.60	1.50	3.96	AS56193	8 Cyl.	STD
302 cu. in.			1996-01	Ford, Mercury, Vin: N Shallow Top & Oil Grv., "Lightning"		1.50	4.37	AS56193010		0.50
351 cu. in.			1993-97	Vin: H,N,R, "Lightning" Shallow Top & Oil Grv.		4.00	3.48	AS56193020		0.75
								AS56193030		1.00
								AS56193040		1.50
								AS56194		STD
								AS56194010		0.13
								AS56194020		0.25
								AS56194030		0.50
								AS56194040		0.75
								AS56194050		1.00
								AS56194060		1.50
300 cu. in.		6	1995-97	Vin: Y	101.60	2.00	4.78	AS56195	6 Cyl.	STD
						2.00	4.80	AS56195010		0.50
						4.00	3.81	AS56195020		0.75
								AS56195030		1.00
								AS56195040		1.50
								AS56196		STD
								AS56196010		0.50
								AS56196020		0.75
								AS56196030		1.00
								AS56196040		1.50
420 cu. in.		8	1983-84	Diesel To S/N 59208	101.60	2.00	4.78	AS56197	8 Cyl.	STD
						2.00	4.80	AS56197010		0.25
						4.00	4.45	AS56197020		0.50
								AS56197030		0.75
								AS56197040		1.00
		4		800, 900, 1800, 4000	101.60	2.00	4.78	AS56198	4 Cyl.	STD
						2.38	4.80			
						4.75	4.88			
420 cu. in.		8	1983-88	Diesel	101.60	2.00	4.78	AS56199	8 Cyl.	STD
						2.00	4.80	AS56199010		0.25
						2.80	3.63	AS56199020		0.50
								AS56199030		0.75
								AS56199040		1.00
								AS56199050		1.50
420 cu. in.		8	1983-88	Diesel Special .060 to .070 gap 2nd ring	101.60	2.00	4.78	AS56200	8 Cyl.	STD
						2.00	4.80	AS56200010		0.25
						2.80	3.63	AS56200020		0.50
								AS56200030		0.75
								AS56200040		1.00
								AS56200050		1.50
352cu. in.		8	1958-65	332, 3 Ford, Edsel Corsair	101.60	2.00	4.78	AS56201	8 Cyl.	STD
352cu. in.			1956-57	All Models Lincoln		2.38	4.80	AS56201010		0.50
368cu. in.			1957	Mercury		4.75	4.88	AS56201020		0.75
352 cu. in.			1965-67					AS56201030		1.00
								AS56201040		1.50
								AS56202		STD
								AS56202010		0.50
								AS56202020		0.75
								AS56202030		1.00
								AS56202040		1.50
								AS56203		STD
								AS56203010		0.50
								AS56203020		0.75
								AS56203030		1.00
								AS56203040		1.50

										
FORD MOTORS										
240cu. in.		6	1965-71 Ford		101.60	2.00	4.78	AS56204	6 Cyl.	STD
240 cu. in.			1965-92 C5PF			2.00	4.80	AS56204010		0.25
300 cu. in.			1965-77 300, LD Eng.s. C5PG			4.75	4.88	AS56204020		0.50
240 cu. in.			1977-94					AS56204030		0.75
300 cu. in.			1965-77					AS56204040		1.00
300 cu. in.			Heavy Duty					AS56204050		1.50
								AS56204060		2.00
								AS56205		STD
								AS56205010		0.25
								AS56205020		0.50
								AS56205030		0.75
								AS56205040		1.00
								AS56205050		1.50
								AS56205060		2.00
								AS56206		STD
								AS56206010		0.50
								AS56206020		0.75
								AS56206030		1.00
								AS56206040		1.50
								AS56206050		1.63
								AS56206060		2.00
								AS56207		STD
								AS56207010		0.50
								AS56207020		0.75
								AS56207030		1.00
								AS56207040		1.50
								AS56207050		1.63
172 cu. in.		4	Gas 800, 801, 900, 901, 1801, 4000 Series EAF, EBE M & W Sleeve Kit INCREASE BORE SLEEVE ASSEMBLY FOR ABOVE		101.60	2.50	4.78	AS56208	4 Cyl.	STD
						2.38	4.80			
						2.38	4.80			
						4.75	4.88			
379 cu. in.		8	2011-14 Vin: 6 lex fuel SOHC		102.00	1.50	3.53	AS56209	8 Cyl.	STD
						1.50	4.32	AS56209010		0.50
						2.50	3.23	AS56209020		0.75
								AS56209030		1.00
391 cu. in.		8	361, Eng.s.		102.87	2.38	4.85	AS56210	8 Cyl.	STD
391 cu. in.			1968-86 359, 361, 389, Eng.s. - 3 Ring Piston Zollner Piston #3253 & 3292			2.00	4.88	AS56210010		0.25
370 cu. in.			1979-95			4.75	4.88	AS56210020		0.50
								AS56210030		0.75
								AS56210040		1.00
								AS56210050		1.50
								AS56210060		2.00
								AS56211		STD
								AS56211010		0.25
								AS56211020		0.50
								AS56211030		0.75
								AS56211040		1.00
								AS56211050		1.50
								AS56211060		2.00
								AS56212		STD
								AS56212010		0.25
								AS56212020		0.50
								AS56212030		0.75
								AS56212040		1.00
								AS56212050		1.50
								AS56212060		2.00

										
FORD MOTORS										
361cu. in.	8	1958-59	Edsel Corsair, Ranger, Pacer, E400	102.87	2.00	4.85		AS56213	8 Cyl.	STD
390cu. in.		1968-71	Ford		2.38	4.88		AS56213010		0.50
390cu. in.		1961-65	Ford Thunderbird		4.75	4.88		AS56213020		0.75
390 cu. in.		1968-76	360, Engs.					AS56213030		1.00
								AS56213040		1.50
								AS56214		STD
								AS56214010		0.25
								AS56214020		0.50
								AS56214030		0.75
								AS56215		STD
								AS56215010		0.50
								AS56215020		0.75
								AS56215030		1.00
								AS56215040		1.50
391 cu. in.	8		361, Engs.	102.87	2.00	4.85		AS56216	8 Cyl.	STD
391 cu. in.		1964-67	361, Engs.		2.38	4.88		AS56216010		0.50
					6.00	4.88		AS56216020		0.75
								AS56217		STD
								AS56217010		0.50
								AS56217020		0.75
390cu. in.	8	1966-67	Ford	102.87	2.00	4.85		AS56218	8 Cyl.	STD
410cu. in.		1966-67	Ford, Mercury		2.00	4.88		AS56218010		0.50
390 cu. in.		1967			4.75	1.27		AS56218020		0.75
								AS56218030		1.00
								AS56218040		1.50
								AS56219		STD
								AS56219010		0.50
								AS56219020		0.75
								AS56220		STD
								AS56220010		0.50
								AS56220020		0.75
								AS56220030		1.50
391 cu. in.	8		361, Engs.	102.87	2.00	4.85		AS56221	8 Cyl.	STD
359 cu. in.		1970-76			2.00	4.88		AS56221010		0.50
391 cu. in.		1967-69	361, 389, Engs. 4 Ring Piston		2.00	4.88		AS56221020		0.75
					4.75	1.27		AS56221030		1.00
								AS56221040		1.50
								AS56222		STD
								AS56222010		0.50
								AS56222020		0.75
								AS56222030		1.00
								AS56222040		1.50
391 cu. in.	8	1970-74	359, 361, Engs.	102.87	2.38	4.85		AS56223	8 Cyl.	STD
					2.00	4.88		AS56223010		0.25
					2.00	4.88		AS56223020		0.50
					4.75	1.27		AS56223030		0.75
								AS56223040		1.00
								AS56223050		1.50
								AS56224		STD
								AS56224010		0.25
								AS56224020		0.50
								AS56224030		0.75
								AS56224040		1.00
								AS56224050		1.50
								AS56225		STD
								AS56225010		0.25
								AS56225020		0.50
								AS56225030		0.75
								AS56225040		1.00
								AS56225050		1.50

										
FORD MOTORS										
445 cu. in.		8		Diesel Navistar Non Turbo Spec .062 to .072 gap 2nd ring	104.40	3.00	4.32	AS56226	8 Cyl.	STD
						2.00	4.37	AS56226010		0.50
						3.50	4.55	AS56226020		0.75
								AS56226030		1.00
445 cu. in.		8	1993-94	Diesel Navistar, 16V Vin:C,K Indirect Injection Power Stroke Turbo Spec .045 to .065 gap 2nd ring	104.40	3.16	4.29	AS56227	8 Cyl.	STD
						2.50	4.37	AS56227010		0.50
						3.46	4.00	AS56227020		0.75
								AS56227030		1.00
445 cu. in.		8	1994-04	Diesel Navistar Turbo, Direct Injection Spec .062 to .072 gap 2nd ring	104.40	3.16	4.29	AS56228	8 Cyl.	STD
						2.00	4.42	AS56228010		0.25
						3.46	4.14	AS56228020		0.50
								AS56228030		0.75
								AS56228040		1.00
401 cu. in.		8		Q401	104.78	2.38	4.93	AS56229	8 Cyl.	STD
401 cu. in.			1958-74	401SD		2.38	4.95	AS56229010		0.50
						2.38	4.95	AS56229020		0.75
						4.75	5.00	AS56229030		1.00
								AS56229040		1.50
428cu. in.		8	1966-70	Ford	104.90	2.00	4.93	AS56230	8 Cyl.	STD
428 cu. in.						2.00	4.95	AS56230010		0.50
						4.75	1.27	AS56230020		0.75
								AS56230030		1.00
								AS56230040		1.50
								AS56231		STD
								AS56231010		0.75
								AS56231020		1.00
								AS56231030		1.50
158 cu. in.				158GF	106.68	2.38	4.29	AS56232	3 Cyl.	STD
158 cu. in.				G 2000, 3000 Gas - 3 Cyl.		2.38	4.32			
						4.75	1.27			
158 cu. in. 175 cu. in.				Diesel 158DF; Diesel 175DF	106.68	2.38	4.29	AS56233	1 Cyl.	STD
158 cu. in.				D 2000 Diesel - 3 Cyl.		2.38	4.32			
175 cu. in.				D 3000 Diesel - 3 Cyl.		2.38	4.32			
233 cu. in.				D 5000 Diesel - 4 Cyl.		4.75	5.44			
427cu. in.		8	1966-69	Ford	107.51	1.60	4.57	AS56234	8 Cyl.	STD
						1.60	4.60			
						3.00	1.27			
430cu. in.		8	1959-60	383, 4 Engs. Ford Thunderbird 76A	109.22	2.00	5.13	AS56235	8 Cyl.	STD
						2.38	5.16	AS56235010		0.75
						4.75	1.27			
429 cu. in.		8	1992-98	V8 Shallow Oil Ring Groove	110.70	2.00	4.70	AS56236	8 Cyl.	STD
460 cu. in.			1992-97	Shallow Oil Ring Groove		2.00	4.72	AS56236010		0.50
						4.00	3.94	AS56236020		0.75
								AS56236030		1.00
								AS56236040		1.50
								AS56237		STD
								AS56237010		0.50
								AS56237020		0.75
								AS56237030		1.00
								AS56237040		1.50
								AS56238		STD
								AS56238010		0.50
								AS56238020		0.75
								AS56238030		1.00
								AS56238040		1.50

										
FORD MOTORS										
429 cu. in.		8	1979-91		110.74	2.38	4.70	AS56239	8 Cyl.	STD
429 cu. in.			1979-94			2.00	4.72	AS56239010		0.50
						4.75	4.88	AS56239020		0.75
								AS56239030		1.00
								AS56239040		1.50
								AS56240		STD
								AS56240010		0.50
								AS56240020		0.75
								AS56240030		1.00
								AS56240040		1.50
								AS56241		STD
								AS56241010		0.50
								AS56241020		0.75
								AS56241030		1.00
								AS56241040		1.50
460cu. in.		8	1968-73 429, 4 Engs. Ford		110.74	2.00	4.70	AS56242	8 Cyl.	STD
460cu. in.			1974-78 Ford			2.00	4.72	AS56242010		0.50
429 cu. in.			1968-78			4.75	4.88	AS56242020		0.75
460 cu. in.			1970-73					AS56242030		1.00
460 cu. in.			1972-91 , Vin: G					AS56242040		1.50
								AS56243		STD
								AS56243010		0.50
								AS56243020		0.75
								AS56243030		1.00
								AS56243040		1.50
								AS56244		STD
								AS56244010		0.50
								AS56244020		0.75
								AS56244030		1.00
								AS56244040		1.50
462cu. in.		8	1966-68 Lincoln		111.25	2.00	4.70	AS56245	8 Cyl.	STD
						2.38	4.72	AS56245010		0.50
						4.75	4.88	AS56245020		1.00
256 cu. in.		4	7000 Series 4 ring Zolner #3225 Piston		111.76	3.16	4.47	AS56246	4 Cyl.	STD
						2.38	4.50			
						2.38	4.50			
						4.75	6.20			
		6	401DT Diesel 8000, 9000 Series Zollner Piston #3225 Turbocharged 4 ring Piston		111.76	3.16	4.47	AS56247	6 Cyl.	STD
						2.38	4.50			
						2.38	4.50			
						4.75	6.20			
401 cu. in.		6	1969-On Diesel, 7A Series, L-6		111.76	3.16	4.47	AS56248	6 Cyl.	STD
475 cu. in.			1991-On L-6 OHV Turbo Diesel 3 Ring Mahle Piston #1495			2.38	4.50			
						4.75	6.20			
401 cu. in.			Diesel DT , F4000 3 Ring Mahle Piston #1494		111.76	3.16	4.47	AS56249	2 Cyl.	STD
475 cu. in.			Diesel DT , F4000 3 Ring Mahle Piston #1495			2.38	4.50			
						4.75	6.20			
201 cu. in.			Diesel 201DF		111.76	2.38	4.47	AS56250	3 Cyl.	STD
401cu. in.			Diesel 401DF, 401DFT Turbo			2.38	4.50			
201 cu. in.			D 4000 Diesel - 3 Cyl.; 8000 Diesel - 6 Cyl.			2.38	4.50			
						4.75	6.20			
201 cu. in.			201GF		111.76	2.38	4.47	AS56251	3 Cyl.	STD
192 cu. in.			201, D Engs. 4000 Gas - 3 Cyl.			2.38	4.50			
						4.75	6.20			

										
FORD MOTORS										
256 cu. in.		4		Diesel 256DF	111.76	2.38	4.47	AS56252	4 Cyl.	STD
				5000 Super Major Diesel		2.38	4.50			
						2.38	4.50			
						4.75	6.20			
477 cu. in.		8		M477	114.30	2.38	5.36	AS56253	8 Cyl.	STD
534 cu. in.			1958-81	N534		2.38	4.85			
534 cu. in.						2.38	4.85			
534 cu. in.				475, 477, Eng.		4.75	5.08			
								AS56254		STD
								AS56254010		0.50
								AS56254020		0.75
								AS56254030		1.00
								AS56254040		1.50
								AS56254050		2.00
				1975-92 636cu.in 10.4Liter 2 Ring Piston	114.30	3.17	5.10	AS56255	1 Cyl.	STD
						2.79	4.95	AS56255010		0.50
								AS56255020		0.75
								AS56255030		1.00
FORD-PERFORMANCE										
97.6 cu. in.	1599	4	1973	9 High Performance Ford Pinto 75 H.P.	80.96	1.60	3.71	AS5701	4 Cyl.	STD
						2.00	3.86	AS5701010		0.13
						4.00	4.39			
140 cu. in.	2300	4			96.00	1.60	4.47	AS5702	4 Cyl.	STD
						1.60	4.19	AS5702010		0.50
						4.75	5.21	AS5702020		0.75
								AS5702030		0.88
								AS5702040		1.00
								AS5702050		1.13
400 cu. in.		8		289, 302, 351, Eng. Ford, Mercury Low Tension Oil Ring	101.60	2.00	4.78	AS5703	8 Cyl.	STD
						2.00	4.80	AS5703010		0.75
						4.75	3.81	AS5703020		1.00
								AS5703030		1.13
351 cu. in.		8		289, 302, Eng. Ford Low Tension Oil Ring	101.60	1.60	4.78	AS5704	8 Cyl.	STD
						1.60	4.80	AS5704010		0.75
						4.75	3.81	AS5704020		0.88
								AS5704030		1.00
								AS5704040		1.13
								AS5704050		1.50
								AS5704060		1.63
400 cu. in.		8		289, 302, 351, Eng. Ford, Mercury	101.60	2.00	4.78	AS5705	8 Cyl.	STD
						2.00	4.80	AS5705010		0.13
						4.75	5.00	AS5705020		0.50
								AS5705030		0.63
								AS5705040		0.75
								AS5705050		0.88
								AS5705060		1.00
								AS5705070		1.13
								AS5705080		1.50
								AS5705090		1.63
351 cu. in.		8		289, 302, Eng. Ford, Mercury Contains 1/8" Oil Rings	101.60	1.60	4.78	AS5706	8 Cyl.	STD
						1.60	4.80	AS5706010		0.75
						3.00	4.75	AS5706020		0.88
								AS5706030		1.00
								AS5706040		1.50

										
FORD-PERFORMANCE										
		8			101.60	1.60	4.78	AS5707	8 Cyl.	STD
						1.60	4.80	AS5707010		0.13
						3.00	4.75	AS5707020		0.25
								AS5707030		0.50
								AS5707040		0.63
								AS5707050		0.75
								AS5707060		0.88
								AS5707070		1.00
								AS5707080		1.13
								AS5707090		1.50
								AS5707100		1.63
351 cu. in.		8		289, 302, Engs. Ford, Mercury	101.60	1.60	4.78	AS5708	8 Cyl.	STD
						1.60	4.80	AS5708010		0.13
						4.75	4.75	AS5708020		0.25
								AS5708030		0.50
								AS5708040		0.63
								AS5708050		0.75
								AS5708060		0.88
								AS5708070		1.00
								AS5708080		1.13
								AS5708090		1.50
								AS5708100		1.63
								AS5708101		2.00
		8			101.60	1.50	4.78	AS5709	8 Cyl.	STD
						1.50	4.37			
						4.00	3.43			
								AS5710		STD
								AS5710010		0.75
		8			101.60	2.00	4.85	AS5711	8 Cyl.	STD
						2.00	4.80			
						4.75	4.88			
								AS5712		STD
								AS5712010		0.75
		8			101.60	1.60	4.78	AS5713	8 Cyl.	STD
						1.60	4.80	AS5713010		0.75
						4.75	4.88	AS5713020		1.00
								AS5713030		1.50
								AS5714		STD
								AS5714010		0.50
								AS5714020		0.75
								AS5714030		0.88
								AS5714040		1.00
								AS5714050		1.50
302 cu. in.		8			101.60	1.50	4.78	AS5715A	8 Cyl.	STD
						1.50	4.37	AS5715A10		0.75
						4.00	3.43			
351 cu. in.		8		289, 302, Engs. Ford, Mercury Contains 3.0MM Oil Rings	101.60	1.60	4.78	AS5715	8 Cyl.	STD
						1.60	4.80	AS5715010		0.13
						3.00	3.86	AS5715020		0.25
								AS5715030		0.50
								AS5715040		0.63
								AS5715050		0.75
								AS5715060		0.88
								AS5715070		1.00
								AS5715080		1.13
								AS5715090		1.50
								AS5715100		1.63
								AS5715101		1.88
								AS5715102		2.13

										
FORD-PERFORMANCE										
400 cu. in.	8			302, 351, Engs. Ford, Mercury w/1.5mm Comp. & 3.0mm Oil	101.60	1.50	4.78	AS5716	8 Cyl.	STD
						1.50	4.37			
						3.00	3.81			
								AS5717		STD
								AS5717010		0.75
								AS5718		STD
								AS5718010		0.13
								AS5718020		0.63
								AS5718030		0.75
								AS5718040		0.88
								AS5718050		1.00
								AS5718060		1.13
								AS5718070		1.50
								AS5718080		1.63
								AS5718090		2.13
400 cu. in.	8			289, 302, 351, Engs. contains Steel Moly top ring	101.60	1.09	4.09	AS5719	8 Cyl.	STD
						1.09	4.37	AS5719010		0.75
						3.00	3.86	AS5719020		0.88
								AS5719030		1.00
								AS5719040		1.13
								AS5719050		1.50
								AS5719060		1.63
400 cu. in.	8			302, 351, Engs. Ford, Mercury Napier ductile iron 2nd ring w/1.5mm Comp. & 3.0mm Oil	101.60	1.50	4.09	AS5720	8 Cyl.	STD
						1.50	4.37	AS5720010		0.13
						3.00	3.81	AS5720020		0.88
								AS5720030		1.13
								AS5720040		1.63
								AS5721		STD
								AS5721010		0.88
								AS5721020		1.63
	8			289, 302, 351 Engs. contains Steel Moly top ring	101.60	1.09	4.09	AS5722	8 Cyl.	STD
						1.60	4.80	AS5722010		0.63
						4.75	4.75	AS5722020		0.88
								AS5722030		1.13
								AS5722040		0.13
								AS5722050		1.63
								AS5722060		2.00
	8			289, 302, 351 Engs. contains Steel Moly top ring Low tension Oil Ring	101.60	1.09	4.09	AS5723	8 Cyl.	STD
						1.60	4.80	AS5723010		0.88
						4.75	3.81	AS5723020		1.13
								AS5723030		1.63
								AS5723040		2.00
351 cu. in.	8			289, 302, Engs. Ford, Napier ductile iron 2nd ring	101.60	1.60	4.78	AS5724	8 Cyl.	STD
						1.60	4.42	AS5724010		0.13
						4.75	4.75	AS5724020		0.75
								AS5724030		0.88
								AS5724040		1.00
								AS5724050		1.13
								AS5724060		1.50
								AS5724070		1.63

										
FORD-PERFORMANCE										
351 cu. in.		8		289, 302, Engs. Ford Napier ductile iron 2nd ring Low Tension Oil Ring	101.60	1.60	4.78	AS5725	8 Cyl.	STD
						1.60	4.42	AS5725010		0.75
						4.75	3.81	AS5725020		0.88
								AS5725030		1.00
								AS5725040		1.13
								AS5725050		1.50
								AS5725060		1.63
400 cu. in.		8		289, 302, 351, Engs. contains Steel Moly top ring w/napier 2nd ring	101.60	1.09	4.09	AS5726	8 Cyl.	STD
						1.09	4.37	AS5726010		0.13
						3.00	3.86	AS5726020		0.63
								AS5726030		0.88
								AS5726040		1.13
								AS5726050		1.38
								AS5726060		1.50
								AS5726070		1.63
								AS5726080		1.75
351 cu. in.		8		289, 302, Engs. Ford, Mercury Contains 1/8" Oil Rings Napier ductile iron 2nd rings	101.60	1.60	4.78	AS5727	8 Cyl.	STD
						1.60	4.42	AS5727010		0.13
						3.00	4.75	AS5727020		0.75
								AS5727030		0.88
								AS5727040		1.13
								AS5727050		1.63
390 cu. in.		8	1968-71	Ford, Mercury	102.87	1.60	4.80	AS5728	8 Cyl.	STD
						1.60	4.88	AS5728010		0.75
						4.75	5.08	AS5728020		0.88
								AS5728030		1.50
								AS5728040		1.63
400 cu. in.		8		289, 302, 351, Engs. Ford, Mercury	103.19	2.00	4.80	AS5729	8 Cyl.	STD
						2.00	4.88	AS5729010		0.88
						4.75	5.00			
		8		427 cu.in. Ford Stroked KB piston w/ 3/16 oil groove	107.51	1.60	4.57	AS5730	8 Cyl.	STD
						1.60	4.60	AS5730010		0.75
						4.75	5.21			
460 cu. in.		8			110.74	1.60	5.16	AS5731	8 Cyl.	STD
						1.60	4.72	AS5731010		0.50
						4.75	4.88	AS5731020		0.75
								AS5731030		0.88
								AS5731040		1.00
								AS5731050		1.63
								AS5731060		2.00
								AS5731070		2.13
FRAZER										
		6	1946-52	Cont. F6226 All Models	84.14	2.38	3.99	AS5801	6 Cyl.	STD
						2.38	4.01	AS5801010		1.00
						4.00	4.39			
						4.00	4.01			

										
FRONTENAC-CANADIAN										
170 cu. in.	6	1960-62	144, Engs.	88.90	2.00	4.19		AS5901	6 Cyl.	STD
					2.00	4.22		AS5901010		0.13
					4.75	4.39		AS5901020		0.75
								AS5901030		1.00
								AS5901040		1.50
								AS5902		STD
								AS5902010		0.13
								AS5903		STD
								AS5903010		0.13
								AS5903020		0.75
								AS5903030		1.00
GENERAL MOTORS										
1206	4	2009-On	N200 N300 B12D	69.70	1.20	2.92		AS6001	4 Cyl.	STD
					1.20	3.12		AS6001010		0.25
					2.00	3.18		AS6001020		0.50
								AS6001030		0.75
	4		61cu. in. Corsa 8V Fits Brazilian Mahle Piston	71.08	1.50	3.20		AS6002	4 Cyl.	STD
					1.50	3.33				
					3.00	3.30				
								AS6003		STD
								AS6003010		0.50
								AS6003020		1.00
	4	2002-On	61cu. in. Corsa 16V, GMB 8V VHC	71.08	1.20	3.12		AS6004	4 Cyl.	STD
					1.50	3.33		AS6004010		0.50
					2.00	2.92		AS6004020		1.00
			2003-On	49cu. in. QQ Kia	72.00	1.20	2.92	AS6005	3 Cyl.	STD
					1.20	3.10		AS6005010		0.25
					2.50	2.67		AS6005020		0.50
								AS6005030		0.75
								AS6005040		1.00
1364	4		Vin:9,B,C LUJ LUV Turbo L4	72.50	1.20	3.12		AS6006	4 Cyl.	STD
					1.20	2.84		AS6006010		0.50
					2.00	2.67		AS6006020		0.75
1399	4	2012-15	N1D, 16V, 102HP, Sail mfg:GM Shanghai	73.80	1.20	3.12		AS6006030		1.00
								AS6007	4 Cyl.	STD
					1.20	3.15		AS6007010		0.25
					2.00	2.92				
			1985-00	61cu. in. Chevrolet Sprint - Suzuki Vin: 2,6 Inc Turbo	74.00	1.20	2.92	AS6008	3 Cyl.	STD
					1.50	3.23		AS6008010		0.25
					2.80	1.14		AS6008020		0.50
								AS6008030		0.75
								AS6008040		1.00
								AS6008050		1.50
								AS6009		STD
1300	4	1990-97	79cu. in. Chevrolet GEO, Vin: 9 Suzuki	74.00	1.20	2.92		AS6010	4 Cyl.	STD
					1.50	3.23		AS6010010		0.25
					2.80	3.18		AS6010020		0.50
								AS6010030		0.75
								AS6010040		1.00
								AS6010050		1.50
			1989-95	61cu. in. Chevrolet GEO Metro 2 Ring Piston - Suzuki	74.00	1.20	2.92	AS6011	3 Cyl.	STD
					2.80	3.18		AS6011010		0.50
								AS6011020		0.75
								AS6011030		1.00

										
GENERAL MOTORS										
	4		1998-01	79cu. in. GEO Metro Vin: 2,9 Suzuki G13KS	74.00	1.20	2.92	AS6012	4 Cyl.	STD
						1.20	2.97	AS6012010		0.25
						2.50	2.79	AS6012020		0.50
								AS6012030		0.75
								AS6012040		1.00
	4		1989-96	97cu. in. GEO - Suzuki Vin: U	75.00	1.20	2.92	AS6013	4 Cyl.	STD
			1989-96	97cu. in. GEO Tracker - Suzuki		1.50	3.23	AS6013010		0.25
						2.80	3.30	AS6013020		0.50
								AS6013030		0.75
								AS6013040		1.00
								AS6013050		1.50
	4		1997-02	97cu. in. GEO - Suzuki G16KV Vin: 6	75.00	1.20	2.92	AS6014	4 Cyl.	STD
						1.20	2.97	AS6014010		0.25
						2.50	2.79	AS6014020		0.50
								AS6014030		0.75
								AS6014040		1.00
1500	4		2004-06	92cu. in. Aveo	76.50	1.50	3.20	AS6015	4 Cyl.	STD
						1.50	3.48	AS6015010		0.25
						2.00	2.92	AS6015020		0.50
								AS6015030		0.75
	4		1985-89	92cu. in. Chev. Spectrum, GEO - Isuzu	77.00	1.50	3.30	AS6016	4 Cyl.	STD
						2.80	3.30	AS6016010		0.50
								AS6016020		0.75
								AS6016030		1.00
								AS6017		STD
								AS6017010		0.50
								AS6017020		0.75
								AS6017030		1.00
	4		1987-89	92cu. in. Chev. GEO, Spectrum - Isuzu Turbo	77.00	1.20	3.33	AS6018	4 Cyl.	STD
						1.20	3.48	AS6018010		0.50
						2.80	3.30	AS6018020		0.75
								AS6018030		1.00
1398	4		2012-16	14 ECOTEC LUJ, LUV, VWT TURBO, ONIX BRAZIL	77.60	1.00	2.92	AS6019	4 Cyl.	STD
						1.00	3.35	AS6019010		1.25
						2.00	2.79			
F14D4	1400	4	2006-11	F14D4 AVEO, CRUZ, LANOS, MADE IN KOREA	77.90	1.20	2.92	AS6020	4 Cyl.	STD
						1.20	3.40			
						2.00	3.05			
	1399	4		DOHC, Chev, Lova, Twin-Tec	77.90	1.20	2.92	AS6021	4 Cyl.	STD
						1.50	3.71	AS6021010		0.50
						2.50	3.05			
	1598	4	2009-13	Eng VCT, LXV Vin: E, G DOHC Aveo, G3	79.00	1.20	3.33	AS6022	4 Cyl.	STD
						1.20	3.48	AS6022010		0.50
						2.00	3.30	AS6022020		0.75
		4		98cu. in. Pontiac - Korean Vin: 6 Aveo, Optra LS L91 SOHC	78.99	1.20	3.33	AS6023	4 Cyl.	STD
						1.50	3.43	AS6023010		0.25
						3.00	3.81	AS6023020		0.50
								AS6023030		0.75
								AS6023040		1.00
								AS6023050		1.50
	1598	4	1997-On	Coras Opel w/2.5mm oil grv.	79.00	1.20	3.33	AS6024	4 Cyl.	STD
						1.50	3.43	AS6024010		0.50
						2.50	2.92	AS6024020		1.00

										
GENERAL MOTORS										
110cu. in.	1794	4	1998-08	Vin: 8,L Toyota , 1ZZ-FE	79.00	1.20	3.33	AS6025	4 Cyl.	STD
						1.20	3.48	AS6025010		0.25
						3.00	2.92	AS6025020		0.50
								AS6025030		0.75
								AS6025040		1.00
								AS6025050		1.50
	1598	4		Buick, Excele DOHC made in China w/3.0mm oil grv.	79.00	1.20	3.33	AS6026	4 Cyl.	STD
						1.50	3.43	AS6026010		0.25
						3.00	3.18	AS6026020		0.75
								AS6026030		1.00
	1588	4	1990-95	98cu. in. GEO Storm DOHC/ SOHC-Isuzu 4XE1	80.00	1.20	3.33	AS6027	4 Cyl.	STD
						1.20	3.20	AS6027010		0.50
						3.00	3.18	AS6027020		0.75
								AS6027030		1.00
	1598	4	1982	Monza (Brazil)	80.00	1.50	3.18	AS6028	4 Cyl.	STD
						1.75	3.71	AS6028010		0.50
						4.00	3.81	AS6028020		1.00
								AS6029		STD
								AS6029010		0.50
								AS6029020		1.00
								AS6029030		1.50
110cu. in.	1796	4	2002-13	Astra, Corsa, Cruze Vin;H DOHC Fit Brazilian Mahle Piston Opel X18XE1	80.50	1.20	3.12	AS6030	4 Cyl.	STD
						1.20	3.15	AS6030010		0.25
						2.00	2.92	AS6030020		0.25
								AS6030030		0.50
								AS6030040		0.75
								AS6030050		1.00
263cu. in.		8	1950-53	40, 50 Series Buick Canada 42 Series	80.96	2.25	3.71	AS6031	8 Cyl.	STD
						2.25	3.23			
						4.75	1.27			
						4.75	3.73			
4AGLEC (TOYOTA) VIN 61587		4	1989-93	1.6L 98cu. in. GEO	81.00	1.50	3.18	AS6032	4 Cyl.	STD
						1.50	3.23	AS6032010		0.50
						3.00	3.18	AS6032020		0.75
								AS6032030		1.00
								AS6033		STD
								AS6033010		0.25
								AS6033020		0.50
								AS6033030		0.75
								AS6033040		1.00
								AS6034		STD
								AS6034010		0.25
								AS6034020		0.50
								AS6034030		0.75
		4	1990-92	98cu. in. GEO Vin: 5, Toyota	81.00	1.20	3.33	AS6035	4 Cyl.	STD
108cu. in.			1993-97	GEO, Toyota		1.50	3.23	AS6035010		0.50
						2.80	3.18	AS6035020		0.75
								AS6035030		1.00
		4	1993-97	98cu. in. GEO, Vin: 6, Toyota	81.00	1.20	3.33	AS6036	4 Cyl.	STD
110cu. in.			1996-97	Vin: 8		1.50	3.23	AS6036010		0.25
						3.00	3.18	AS6036020		0.50
								AS6036030		0.75
								AS6036040		1.00
								AS6037		STD
								AS6037010		0.25
								AS6037020		0.50
								AS6037030		0.75

										
GENERAL MOTORS										
	1600	4	1983-89	97cu. in. Chevrolet Nova - Toyota	81.00	1.50	3.18	AS6038	4 Cyl.	STD
						1.50	3.23	AS6038010		0.25
						2.80	3.18	AS6038020		0.50
								AS6038030		0.75
								AS6038040		1.00
								AS6038050		1.50
								AS6039		STD
								AS6039010		0.25
								AS6039020		0.50
								AS6039030		0.75
								AS6039040		1.00
								AS6040		STD
								AS6040010		0.25
								AS6040020		0.50
								AS6040030		0.75
								AS6040040		1.00
	1799	4		DOHC, Buick, Excele Twin-Tec made in China	81.60	1.20	3.12	AS6041	4 Cyl.	STD
						1.50	3.89	AS6041010		0.50
						3.00	3.43	AS6041020		0.75
								AS6041030		1.00
110cu. in.		4	2004-05	L79, Optra LS, MPFI	81.60	1.50	3.23	AS6042	4 Cyl.	STD
						1.50	3.25	AS6042010		0.50
						3.00	3.43	AS6042020		0.75
								AS6042030		1.00
97.6cu. in.		4	1984-87	97 Chevrolet, Pontiac Shallow Oil Ring Groove	82.00	1.50	3.86	AS6043	4 Cyl.	STD
						1.50	3.25	AS6043010		0.25
						4.00	3.94	AS6043020		0.50
								AS6043030		0.75
								AS6043040		1.00
								AS6044		STD
								AS6044010		0.50
								AS6044020		0.75
								AS6044030		1.00
	1400	4	1976-77	85cu. in. Chevrolet Chevette	82.00	2.00	3.86	AS6045	4 Cyl.	STD
			1973-77	Chev. Luv - Isuzu G161		2.00	3.25	AS6045010		0.50
						4.00	4.24	AS6045020		0.75
								AS6045030		1.00
								AS6045040		1.50
								AS6046		STD
								AS6046010		0.25
								AS6046020		0.50
								AS6046030		0.75
								AS6046040		1.00
								AS6046050		1.50
97.6cu. in.	1600	4	1976-83	97 Chev. Chevette	82.00	1.50	3.86	AS6047	4 Cyl.	STD
						1.50	3.25	AS6047010		0.25
						4.00	4.24	AS6047020		0.50
								AS6047030		0.75
								AS6047040		1.00
								AS6047050		1.50
								AS6048		STD
								AS6048010		0.25
								AS6048020		0.50
								AS6048030		0.75
								AS6048040		1.00
								AS6048050		1.50
116cu. in.		4	1991-94	Saturn	82.00	1.50	3.86	AS6049	4 Cyl.	STD
						1.50	3.25	AS6049010		0.50
						3.00	3.30	AS6049020		0.75
								AS6049030		1.00
								AS6050		STD
								AS6050010		0.50
								AS6050020		0.75
								AS6050030		1.00

										
GENERAL MOTORS										
		4	1987-On	Chevette, Gas/Alch. Fits Brazilian Mahle Piston	82.00	1.50	3.23	AS6051	4 Cyl.	STD
						1.50	3.25			
						3.00	3.43			
								AS6052		STD
								AS6052010		0.50
								AS6052020		1.00
		4		Chevette (Brazilian), 10.82 Model gas & alch. Also it Brazilian Mahle Piston	82.00	1.50	3.23	AS6053	4 Cyl.	STD
						1.75	3.61	AS6053010		0.50
						4.00	3.43	AS6053020		0.75
								AS6053030		1.00
								AS6054		STD
								AS6054010		0.50
								AS6054020		0.75
								AS6054030		1.00
		4	1973-82	Chevette Fit Brazilian Mahle Piston	82.00	2.00	3.23	AS6055	4 Cyl.	STD
			1973-82	Chev Luv Pickup Truck, PL820 Fit Brazilian Mahle Piston		2.00	3.25	AS6055010		0.50
						4.00	3.94	AS6055020		0.75
								AS6055030		1.00
								AS6055040		1.50
116cu. in.		4	1995-98	Saturn Vin: 7,8	82.00	1.20	3.12	AS6056	4 Cyl.	STD
						1.50	3.25	AS6056010		0.41
						3.00	3.30	AS6056020		0.50
								AS6056030		0.75
								AS6056040		1.00
116cu. in.		4	1999-02	Saturn Vin: 7,8 SC, SL, SW Series	82.00	1.20	3.12	AS6057	4 Cyl.	STD
						1.50	3.25	AS6057010		0.10
						2.50	2.79	AS6057020		0.41
								AS6057030		0.50
								AS6057040		0.75
								AS6057050		1.00
110cu. in.	1796	4	2004-06	Vibe GT Toyota , 2ZZ-GE	82.00	1.20	3.12	AS6058	4 Cyl.	STD
						1.20	3.48	AS6058010		0.50
						3.00	2.79	AS6058020		0.75
								AS6058030		1.00
248cu. in.		8	1939-49	All Models, Deluxe Eight 39-29, 27, 28, 29 Pontiac	82.55	2.38	3.89	AS6059	8 Cyl.	STD
						2.38	3.91	AS6059010		0.50
						4.75	1.27	AS6059020		1.00
								AS6059030		1.50
111cu. in.		4	1976-79	Isuzu	84.00	2.00	3.99	AS6060	4 Cyl.	STD
111cu. in.			1972-84	Vin: W Chev. Luv - Isuzu G180Z		2.00	3.84	AS6060010		0.50
						4.00	3.43	AS6060020		0.75
								AS6060030		1.00
								AS6060040		1.50
								AS6061		STD
								AS6061010		0.25
								AS6061020		0.50
								AS6061030		0.75
								AS6061040		1.00
								AS6061050		1.50
122cu. in.		4	1999-04	Vin: C, Tracker Suzuki	84.00	1.20	2.92	AS6062	4 Cyl.	STD
						1.50	3.73	AS6062010		0.25
						2.50	2.79	AS6062020		0.50
								AS6062030		0.75
								AS6062040		1.00
								AS6063		STD

										
GENERAL MOTORS										
110cu. in.	4	1981-86	Diesel		84.00	2.50	3.81	AS6064	4 Cyl.	STD
111cu. in.		1982-86	Diesel Chevrolet, Pontiac			2.00	3.84	AS6064010		0.25
						4.00	3.84	AS6064020		0.50
								AS6064030		0.75
								AS6064040		1.00
								AS6064050		1.50
10.8cu. in.	4	1982-84	110 Chevrolet - Isuzu		84.07	1.50	3.81	AS6065	4 Cyl.	STD
						1.50	4.01	AS6065010		0.50
						4.00	4.24	AS6065020		0.75
								AS6065030		1.00
								AS6066		STD
								AS6066010		0.50
								AS6066020		0.75
								AS6066030		1.00
								AS6066040		1.50
110cu. in.	4	1986-91	Monza - Made in Brazil		84.78	1.50	3.58	AS6067	4 Cyl.	STD
						1.50	3.45	AS6067010		0.25
						3.00	3.56	AS6067020		0.50
								AS6067030		0.75
								AS6067040		1.00
								AS6068		STD
								AS6068010		0.50
								AS6068020		0.75
								AS6068030		1.00
	4	1987-On	Monza, Omega, Fit Brazilian		84.78	1.50	3.43	AS6069	4 Cyl.	STD
			Mahle Piston			1.50	3.45	AS6069010		0.50
						3.00	3.56	AS6069020		1.00
	4	1982-86	Ascona, Kadett GSi, Monza, Omega, Rekord Fit Brazilian		84.78	1.50	3.43	AS6070	4 Cyl.	STD
			Mahle Piston			1.75	3.45	AS6070010		0.50
						4.00	3.30			
								AS6071		STD
								AS6071010		0.50
								AS6071020		1.00
112cu. in.	4	1982-86	Vin: O Oldsmobile, Pontiac		84.80	1.50	3.43	AS6072	4 Cyl.	STD
			Made in Brazil Incl. Turbo			1.75	3.45	AS6072010		0.50
						4.00	4.11	AS6072020		0.75
								AS6072030		1.00
								AS6072040		1.50
								AS6073		STD
								AS6073010		0.25
								AS6073020		0.50
								AS6073030		0.75
								AS6073040		1.00
								AS6073050		1.50
								AS6074		STD
								AS6074010		0.50
								AS6074020		0.75
								AS6074030		1.00
268cu. in.	8	1950-54	All Models P8, 8xH, 27, 28		85.73	2.38	4.04	AS6075	8 Cyl.	STD
			Pontiac			2.38	4.06			
						4.75	1.27			
140cu. in.	6	1960	Chevrolet Corvair		85.73	2.00	4.04	AS6076	6 Cyl.	STD
						2.00	4.06			
						4.75	1.27			
								AS6077		STD

										
GENERAL MOTORS										
122cu. in.		4	2008-14	GAS, FLEX 2.0 Litre ATS, CTS, Cobalt, HHR, Malibu, Regal, Soltice, Sky	86.00	1.20	3.33	AS6078	4 Cyl.	STD
134cu. in.			2009-11	Cobalt, HHR Vin: B (lex fuel) Vin: H (gas) w/2.0mm oil grv.		1.50	3.43	AS6078010		0.50
						2.00	2.79	AS6078020		0.75
121cu. in.		4	1987-95	Vin: K,M Chevrolet, Pontiac - Made in Brazil Incl. Turbo Also its Brazilian Mahle Piston	86.00	1.50	3.45	AS6079	4 Cyl.	STD
122cu. in.			2004-05	DOHC L34 Epic LS		1.50	3.43	AS6079010		0.50
						3.00	3.81	AS6079020		0.75
								AS6079030		1.00
								AS6079040		1.50
								AS6080		STD
								AS6080010		0.25
								AS6080020		0.50
								AS6080030		0.75
								AS6080040		1.00
								AS6080050		1.50
181cu. in.		6	1997-00	Cadillac Catera Vin: R	86.00	1.50	3.86	AS6081	6 Cyl.	STD
						1.50	3.43	AS6081010		0.50
						3.00	2.92	AS6081020		0.75
183cu. in.	3000	6	1999-05	Vin: R 24 Valve Saturn, Catera	86.00	1.20	3.33	AS6082	6 Cyl.	STD
						1.50	3.78	AS6082010		0.50
						3.00	3.30	AS6082020		0.75
								AS6082030		1.00
122cu. in.		4	2004-07	Vin: P DOHC, Supercharger Cobalt, Ion	86.00	1.20	3.33	AS6083	4 Cyl.	STD
134cu. in.			2000-08	L61 Ecotec, Chev, Pontiac, Saturn Vin: A,D,F,J,N,Z		1.50	3.43	AS6083010		0.50
						2.50	3.05	AS6083020		0.75
								AS6083030		1.00
								AS6084		STD
244cu. in.		8	1994-95	Olds Aurora DOHC	87.00	1.50	3.33	AS6085	8 Cyl.	STD
						1.50	4.14	AS6085010		0.50
						3.00	3.81	AS6085020		0.75
								AS6085030		1.00
								AS6086		STD
								AS6086010		0.25
								AS6086020		0.50
								AS6086030		0.75
								AS6086040		1.00
244cu. in.		8	1996-04	Olds Aurora DOHC Vin: C	87.00	1.20	3.33	AS6087	8 Cyl.	STD
						1.50	4.14	AS6087010		0.25
						3.00	3.81	AS6087020		0.50
119cu. in.		4	1983-85	GMC	87.00	1.50	3.61	AS6088	4 Cyl.	STD
						1.50	3.94	AS6088010		0.25
						4.00	3.43	AS6088020		0.50
								AS6088030		0.75
								AS6088040		1.00
								AS6088050		1.50
								AS6089		STD
								AS6089010		0.25
								AS6089020		0.50
								AS6089030		0.75
								AS6089040		1.00
								AS6090		STD
								AS6090010		0.25
								AS6090020		0.50
								AS6090030		0.75
								AS6090040		1.00

										
GENERAL MOTORS										
119cu. in.		4	1982	GMC	87.00	2.00	3.61	AS6091	4 Cyl.	STD
						2.00	3.94	AS6091010		0.50
						4.00	3.68	AS6091020		0.75
								AS6091030		1.00
								AS6091040		1.50
								AS6092		STD
								AS6092010		0.50
								AS6092020		0.75
								AS6092030		1.00
								AS6093		STD
								AS6093010		0.50
								AS6093020		0.75
								AS6093030		1.00
320cu. in.		8	1940-52	Buick 60 Century, 70 Roadmaster, 80,90 Limited - Canada 46,47,48,49 Series	87.31	2.38	3.61	AS6094	8 Cyl.	STD
						2.38	4.14	AS6094010		1.50
						4.75	1.27			
						4.75	4.14			
		6	1939-40	60, 70 Oldsmobile - Canada 35, 36	87.31	2.38	3.61	AS6095	6 Cyl.	STD
						2.38	4.14			
						4.75	1.27			
						4.75	4.14			
222cu. in.		6	1937-38	Deluxe 37-26CA, 38-26DA Pontiac	87.31	3.18	4.11	AS6096	6 Cyl.	STD
223cu. in.				GMC - CI Piston		3.18	3.94			
						4.75	1.27			
222cu. in.		6	1939-40	Quality Six 39-25, Special Six 40-25, Deluxe Six 39-26, 40-26 Pontiac	87.31	2.25	3.61	AS6097	6 Cyl.	STD
						2.25	4.14	AS6097010		0.50
						4.75	1.27	AS6097020		1.00
145cu. in.		6	1961-63	Chevrolet Corvair	87.31	2.00	4.11	AS6098	6 Cyl.	STD
145cu. in.			1961-63	Chevrolet		2.00	4.14	AS6098010		0.75
						4.75	1.27			
								AS6099		STD
								AS6099010		0.75
164cu. in.		6	1964-69	Chevrolet Corvair	87.31	1.60	3.91	AS60100	6 Cyl.	STD
164cu. in.			1964-65	Chev. Corvair		1.60	3.94	AS60100010		0.50
						3.00	4.50	AS60100020		0.75
								AS60100030		1.00
								AS60100040		1.50
								AS60101		STD
								AS60101010		0.50
								AS60101020		0.75
								AS60101030		1.00
								AS60101040		1.50
								AS60102		STD
								AS60102010		0.50
								AS60102020		0.75
								AS60102030		1.00
								AS60102040		1.50
146cu. in.		4	2004-08	SOHC 16V L4 Astra Export	87.50	1.20	3.12	AS60103	4 Cyl.	STD
146cu. in.			2004-08	SOHC 16V L4 S10 Blazer Export		1.50	3.28	AS60103010		0.50
						2.50	2.92	AS60103020		0.75
								AS60103030		1.00
197cu. in.		6	2003-04	Buick, Cadillac CTS Vin: N	87.50	1.20	3.53	AS60104	6 Cyl.	STD
						1.50	3.28	AS60104010		0.50
						2.50	2.92	AS60104020		0.75
								AS60104030		1.00

										
GENERAL MOTORS										
137cu. in.		4	1984-85	Diesel GMC	88.00	2.00	3.61	AS60105	4 Cyl.	STD
						2.00	3.63	AS60105010		0.25
						4.00	3.84			
								AS60106	4 Cyl.	STD
								AS60106010		0.25
								AS60106020		0.50
								AS60106030		0.75
								AS60106040		1.00
252cu. in.		8	1987-89	Cadillac Allante Shallow Oil Ring Groove	88.00	1.50	3.61	AS60107	8 Cyl.	STD
						1.50	3.63	AS60107010		0.08
						3.00	1.27	AS60107020		0.25
								AS60107030		0.50
145cu. in.		4	2009-13	Vin: B DOHC 16V Captive, HHR, Malibu w/2.0mm oil grv	88.00	1.20	3.33	AS60108	4 Cyl.	STD
						1.50	3.63	AS60108010		0.50
						2.00	2.79	AS60108020		0.75
145cu. in.		4	2006-09	Vin: B,P,5 DOHC Cobalt, HHR w/2.5mm oil grv.	88.00	1.20	3.12	AS60109	4 Cyl.	STD
						1.50	3.63	AS60109010		0.50
						2.50	2.92	AS60109020		0.75
								AS60109030		1.00
252cu. in.		8	1982-87	Cadillac Shallow Oil Ring Groove	88.00	2.00	4.14	AS60110	8 Cyl.	STD
						2.00	3.96	AS60110010		0.25
						4.00	1.27	AS60110020		0.50
								AS60110030		0.75
								AS60110040		1.00
								AS60110050		0.13
								AS60110060		1.50
								AS60111		STD
								AS60111010		0.13
								AS60111020		0.25
								AS60111030		0.50
								AS60111040		0.75
								AS60111050		1.00
								AS60111060		1.50
								AS60112		STD
								AS60112010		0.13
								AS60112020		0.25
								AS60112030		0.50
								AS60112040		0.75
								AS60112050		1.00
								AS60112060		1.50
137cu. in.		4	1981-82	Diesel GMC	88.00	2.50	4.14	AS60113	4 Cyl.	STD
						2.00	3.96	AS60113010		0.50
						4.50	4.24	AS60113020		0.75
								AS60113030		1.00
216cu. in.		6	1937-53	Chevrolet	88.90	3.18	3.96	AS60114	6 Cyl.	STD
216cu. in.			1937-53	GMC - CI Piston		3.18	3.66	AS60114010		0.75
						4.75	1.27			
								AS60115		STD
346cu. in.		8	1946-48	All Models Cadillac	88.90	2.00	4.19	AS60116	8 Cyl.	STD
						2.00	4.22			
						4.75	1.27			
260cu. in.		8	1979-80	Diesel Oldsmobile	88.90	2.00	4.19	AS60117	8 Cyl.	STD
						2.00	4.22			
						8.50	3.63			

										
GENERAL MOTORS										
173cu. in.		6	1980	Buick, Chev., Pont. For 89MM, use .005	88.90	2.00	4.19	AS60118	6 Cyl.	STD
196cu. in.			1978-79	Chevrolet		2.00	4.22	AS60118010		0.13
200cu. in.			1978-79	Chevrolet		4.75	4.39	AS60118020		0.75
200cu. in.			1978-79	GMC				AS60118030		1.00
								AS60118040		1.50
								AS60119		STD
								AS60119010		0.13
								AS60120		STD
								AS60120010		0.13
								AS60120020		0.75
								AS60120030		1.00
238cu. in.		6	1941-48	All Models 66, 76, 96 Oldsmobile - Canada 35,36	88.90	2.38	4.19	AS60121	6 Cyl.	STD
						2.38	4.22			
						4.75	1.27			
						4.75	3.99			
216cu. in.		6	1937-53	Chevrolet 4 Ring Repl. Piston	88.90	3.18	3.96	AS60122	6 Cyl.	STD
216cu. in.			1937-53	Chev.-4 Ring Repl. Piston		3.18	3.66			
						4.75	1.27			
						4.75	3.99			
215 C.I.D.		8	1964-65	Buick Special	88.90	2.00	4.19	AS60123	8 Cyl.	STD
260 C.I.D.		8	1975-82	4.3L Oldsmobile		2.00	4.22	AS60123010		0.75
267 C.I.D.		8	0979-82	4.4L Buick, Chevrolet, GMC		4.75	1.27	AS60123020		1.00
								AS60123030		1.50
								AS60124		STD
								AS60124010		0.25
								AS60124020		0.50
								AS60124030		0.75
								AS60124040		1.00
								AS60125		STD
								AS60125010		0.75
								AS60125020		1.00
122cu. in.		4	1975-77	Chev. Vega, Pont. For Alum. Bore Only	88.90	2.00	4.19	AS60126	4 Cyl.	STD
140cu. in.			1971-76	Chev. Vega, Pont. For Alum. Bore Only		2.00	4.22	AS60126010		0.50
						4.75	4.62	AS60126020		0.75
122cu. in.		4	1975-77	Chev. Vega, Pont. For Cast Iron Sleeves Only	88.90	2.00	4.19	AS60126030		1.00
140cu. in.			1971-76	Chev. Vega, Pont. For Cast Iron Sleeves Only		2.00	4.22	AS60127	4 Cyl.	STD
						4.75	4.62	AS60127010		0.75
								AS60128		STD
								AS60128010		0.75
122cu. in.		4	1984-86	Buick, Chevrolet Deep Oil Ring Groove	89.00	1.50	3.38	AS60129	4 Cyl.	STD
122cu. in.			1983-86	Vin: P Chevrolet Deep Oil Ring Groove		1.50	4.01	AS60129010		0.50
						4.75	1.27	AS60129020		0.75
								AS60129030		1.00
								AS60129040		1.50
								AS60130		STD
								AS60130010		0.50
								AS60130020		0.75
								AS60130030		1.00
								AS60130040		1.50

										
CC	CYL/ENG							PART#	CYL/SET	MIN
GENERAL MOTORS										
112cu. in.		4	1982-84	Buick, Chev., Pont. Deep Oil Ring Groove	89.00	1.50	3.38	AS60131	4 Cyl.	STD
122cu. in.			1982-84	Buick, Chev., Pont. Deep Oil Ring Groove		2.00	3.99	AS60131010		0.50
122cu. in.			1982-86	GMC Deep Oil Ring Groove		4.75	4.75	AS60131020		0.75
								AS60131030		1.00
								AS60132		STD
								AS60132010		0.50
								AS60132020		0.75
								AS60132030		1.00
173cu. in.		6	1987-93	Vin: W Buick, Cad., Chev. Shallow Oil Ring Groove	89.00	1.50	3.38	AS60133	6 Cyl.	STD
189cu. in.			1989-95	Vin: D, M, T, W, Buick, Cad., Chev. Shallow Oil Ring Groove		1.50	4.01	AS60133010		0.25
189cu. in.			1987-95	Vin: D GMC W Shallow Oil Ring Groove		4.00	1.27	AS60133020		0.50
								AS60133030		0.75
								AS60133040		1.00
								AS60133050		1.50
								AS60134		STD
								AS60134010		0.25
								AS60134020		0.50
								AS60134030		0.75
								AS60134040		1.00
								AS60134050		1.50
170cu. in.	2792	6	2005-10	DOHC Cadillac CTS Vin: 489.00	489.00	1.20	3.33	AS60135	6 Cyl.	STD
						1.50	4.01	AS60135010		0.25
						2.50	2.92	AS60135020		0.50
								AS60135030		0.75
121cu. in.		4	1983-84	S Series	89.00	2.00	3.38	AS60136	4 Cyl.	STD
						2.00	3.99	AS60136010		0.50
						4.75	4.75	AS60136020		0.75
								AS60136030		1.00
								AS60137		STD
								AS60137010		0.50
								AS60137020		0.75
								AS60137030		1.00
189cu. in.		6	1996-99	Vin: M,K	89.00	1.20	3.73	AS60138	6 Cyl.	STD
						1.50	4.01	AS60138010		0.25
						3.00	3.81	AS60138020		0.50
								AS60138030		0.75
								AS60138040		1.00
								AS60138050		1.50
212cu. in.		6	2004-07	SOHC Saturn Vue Vin: U Honda	89.00	1.20	3.33	AS60139	6 Cyl.	STD
						1.20	3.68	AS60139010		0.50
						2.80	2.79	AS60139020		0.75
								AS60139030		1.00
189cu. in.		6	1999-05	Vin: J Shallow Oil Ring Groove	89.00	1.20	3.73	AS60140	6 Cyl.	STD
						1.50	4.01	AS60140010		0.50
						3.00	2.79	AS60140020		0.75
								AS60140030		1.00
								AS60141		STD
								AS60141010		0.50
								AS60141020		0.75
182cu. in.		6	2010-13	Eng Vin. 5 Flex Fuel code LFW	89.00	1.00	3.33	AS60142	6 Cyl.	STD
182cu. in.			2010-12	Vin: 5 Flex Fuel code LFW		1.20	3.68	AS60142010		0.25
						1.50	3.10	AS60142020		0.50
								AS60142030		0.75
								AS60142040		1.00

										
GENERAL MOTORS										
173cu. in.	6	1981-84	Chevrolet	89.00	1.50	3.38		AS60143	6 Cyl.	STD
173cu. in.			GMC S15		2.00	3.99		AS60143010		0.25
					4.75	1.27		AS60143020		0.50
								AS60143030		0.75
								AS60143040		1.00
								AS60143050		1.50
								AS60144		STD
								AS60144010		0.50
								AS60144020		0.75
								AS60144030		1.00
								AS60144040		1.50
								AS60145		STD
								AS60145010		0.25
								AS60145020		0.50
								AS60145030		0.75
								AS60145040		1.00
								AS60145050		1.50
112cu. in.	4	1981-82	Chevrolet, Pontiac Shallow Oil Ring Groove	89.00	1.50	3.38		AS60146	4 Cyl.	STD
122cu. in.		1982-83	Chev., GMC Shallow Oil Ring Groove		2.00	3.99		AS60146010		0.50
					4.75	3.81		AS60146020		0.75
								AS60146030		1.00
								AS60146040		1.50
								AS60147		STD
								AS60147010		0.50
								AS60147020		0.75
								AS60147030		1.00
122cu. in.	4		Vin: 1 Buick, Cad., Chev., Pont. Shallow Oil Ring Groove	89.00	1.50	3.25		AS60148	4 Cyl.	STD
134cu. in.			Vin: 1,4,5,6, Shallow Oil Ring Groove		1.50	4.01		AS60148010		0.50
122cu. in.			GMC Shallow Oil Ring Groove		3.00	1.27		AS60148020		0.75
134cu. in.			Vin: 1,4,5,L					AS60148030		1.00
								AS60148040		1.50
214cu. in.	6	1999-03	Vin: H Oldsmobile	89.50	1.20	3.73		AS60149	6 Cyl.	STD
					1.50	4.01		AS60149010		0.25
					2.50	3.18		AS60149020		0.50
								AS60149030		0.75
120cu. in.	1900	4	1975-79 Export	90.00	2.00	3.99		AS60150	4 Cyl.	STD
					2.00	4.01		AS60150010		0.50
					4.50	4.39				
146cu. in.	4	1996-02	Vin: T	90.00	1.20	3.53		AS60151	4 Cyl.	STD
					1.50	4.01		AS60151010		0.25
					3.00	3.94		AS60151020		0.50
								AS60151030		0.75
								AS60151040		1.00
								AS60152		STD
								AS60152010		0.25
								AS60152020		0.50
								AS60152030		0.75
								AS60152040		1.00
235cu. in.	6	1953-62	Chevrolet Cast Iron Piston	90.49	2.38	3.66		AS60153	6 Cyl.	STD
235cu. in.			1950-52 Chevrolet		3.18	4.04		AS60153010		0.75
235cu. in.			1950-55 GMC - Canada		4.75	4.62				
								AS60154		STD
								AS60154010		0.75
235cu. in.	6	1954-62	Chevrolet	90.49	2.38	3.66		AS60155	6 Cyl.	STD
235cu. in.			1953-62 Chevrolet Aluminum Piston		2.38	4.29		AS60155010		0.50
239cu. in.			1941-52 All Models 24,25,26 Pontiac		4.75	4.62		AS60155020		0.75
235cu. in.			1956-62 GMC - Canada					AS60155030		1.00
								AS60155040		2.00
								AS60156		STD
								AS60156010		0.75
								AS60156020		1.00

										
GENERAL MOTORS										
228cu. in.	6	1935-50	GMC To S/N 228-308565	90.49	3.18	4.01		AS60157	6 Cyl.	STD
					3.18	4.04				
					3.18	4.04				
					4.75	4.62				
228 CID	6	1935-50	GMC To S/N 228-308565	90.49	2.38	4.27		AS60158	6 Cyl.	STD
					3.18	4.04		AS60158010		0.75
					3.18	4.04				
					4.75	4.62				
228cu. in.	6		GMC	90.49	2.38	4.27		AS60159	6 Cyl.	STD
					2.38	3.68				
					2.38	3.68				
					4.75	4.62				
224cu. in.	6		GMC - CI Piston - Canada	90.49	3.18	4.01		AS60160	6 Cyl.	STD
235cu. in.			GMC - CI Piston		3.18	4.04				
					4.75	4.62				
235cu. in.	6	1954-61	Chev. 4 Ring Repl. Piston	90.49	2.38	3.66		AS60161	6 Cyl.	STD
235cu. in.		1953-61	GMC 4 Ring Repl. Piston		2.38	4.29		AS60161010		0.50
					4.75	4.62		AS60161020		0.75
					4.75	4.04		AS60161030		1.00
194cu. in.	6	1962-67	Chevrolet	90.49	2.00	4.01		AS60162	6 Cyl.	STD
239cu. in.		1953-54	All Models 25 Pontiac		2.00	4.29		AS60162010		0.50
194cu. in.		1963-67	GMC		4.75	4.62		AS60162020		1.50
								AS60163		STD
								AS60163010		1.50
								AS60164		STD
								AS60164010		1.50
273cu. in.	8	1988-95	Cadillac Shallow Oil Ring Groove	92.00	1.50	4.06		AS60165	8 Cyl.	STD
300cu. in.		1988-95	Cadillac Shallow Oil Ring Groove		1.50	3.78		AS60165010		0.25
					3.00	1.27		AS60165020		0.50
								AS60165030		1.00
								AS60166		STD
								AS60166010		0.25
								AS60166020		0.50
140cu. in.	4	1987-95	Quad 4, Buick, Olds, Pontiac Vin: A,D,3 Shallow Oil Ring Groove	92.00	1.50	3.48		AS60167	4 Cyl.	STD
					1.50	3.78		AS60167010		0.25
					3.00	3.18		AS60167020		0.50
								AS60167030		0.75
								AS60167040		1.00
								AS60168		STD
		1987-95						AS60168010		0.25
								AS60168020		0.50
								AS60168030		0.75
								AS60168040		1.00
								AS60168050		1.50
207cu. in.	6	1991-97	Chevrolet, Vin: X	92.00	1.50	3.84		AS60169	6 Cyl.	STD
					1.50	3.78		AS60169010		0.50
					4.00	3.43		AS60169020		0.75
								AS60169030		1.00
								AS60169040		1.50
								AS60170		STD
								AS60170010		0.13
								AS60170020		0.25
								AS60170030		0.50
								AS60170040		0.75
								AS60170050		1.00

										
GENERAL MOTORS										
207cu. in.		6	1996-03	Vin: E w/4.00 MM Oil Groove	92.00	1.20	3.73	AS60171	6 Cyl.	STD
207cu. in.			1996-03	Chevrolet Vin: E,F		1.50	3.78	AS60171010		0.50
						4.00	3.94	AS60171020		0.75
								AS60171030		1.00
								AS60171040		1.50
								AS60172		STD
								AS60172010		0.50
								AS60172020		0.75
								AS60172030		1.00
207cu. in.		6	1996-08	Vin: E,F,X w/3.00 MM Oil Groove	92.00	1.20	3.73	AS60173	6 Cyl.	STD
207cu. in.			2002-09	Vin: E,F w/3.00mm oil groove		1.50	3.78	AS60173010		0.50
						3.00	3.18	AS60173020		0.75
286cu. in.		6		236, 2 Engs. GMC	92.08	3.18	3.84	AS60173030		1.00
						3.18	3.86	AS60174	6 Cyl.	STD
						3.18	3.86			
						4.75	1.27			
264cu. in.		8	1954-55	40 Series Buick	92.08	2.00	4.32	AS60175	8 Cyl.	STD
						2.00	4.34	AS60175010		0.25
						4.75	1.27	AS60175020		0.50
								AS60175030		0.75
								AS60175040		1.00
								AS60175050		1.50
								AS60176		STD
								AS60176010		0.50
								AS60176020		0.75
								AS60176030		1.00
								AS60177		STD
								AS60177010		0.75
								AS60177020		1.00
								AS60177030		1.50
198cu. in.		6	1962-63	Buick	92.08	2.00	4.32	AS60178	6 Cyl.	STD
						2.00	4.34	AS60178010		0.50
						4.75	1.27	AS60178020		0.75
								AS60178030		1.00
								AS60178040		1.50
								AS60179		STD
								AS60179010		0.50
								AS60179020		0.75
								AS60179030		1.00
								AS60180		STD
								AS60180010		0.75
								AS60180020		1.00
								AS60180030		1.50
256cu. in.		6	2001	GMC Vin: S, L6 w/1.2 2nd grv	93.00	1.20	3.73	AS60181	6 Cyl.	STD
						1.20	3.81	AS60181010		0.25
						2.50	2.79	AS60181020		0.50
								AS60181030		0.75
								AS60182040		1.00
								AS60182		STD
								AS60182010		0.25
								AS60182020		0.50
								AS60182030		0.75
								AS60182040		1.00
281cu. in.		8	1993-95	Cadillac	93.00	1.50	3.48	AS60183	8 Cyl.	STD
						1.50	3.78	AS60183010		0.25
						3.00	3.94	AS60183020		0.50
								AS60183030		0.75
								AS60183040		1.00
								AS60184		STD
								AS60184010		0.25
								AS60184020		0.50
								AS60184030		0.75
								AS60184040		1.00

										
GENERAL MOTORS										
281cu. in.		8	1996-99	Cadillac Vin: 9,Y	93.00	1.20	3.73	AS60185	8 Cyl.	STD
						1.50	3.78	AS60185010		0.25
						3.00	3.94	AS60185020		0.50
281cu. in.		8	2000-11	Cadillac Vin: 6,9,A,J,S,Y	93.00	1.20	3.73	AS60186	8 Cyl.	STD
						1.50	3.78	AS60186010		0.25
						2.50	2.79	AS60186020		0.50
								AS60186030		0.75
								AS60186040		1.00
169cu. in.	2770	4	2004-06	Vin: 8	93.00	1.20	3.73	AS60187	4 Cyl.	STD
						1.50	3.78	AS60187010		0.50
						2.50	2.79	AS60187020		0.75
								AS60187030		1.00
211cu. in.	3460	5	2004-06	L5 Vin: 6	93.00	1.20	3.73	AS60188	5 Cyl.	STD
						1.50	3.78	AS60188010		0.25
						2.50	2.79	AS60188020		0.50
								AS60188030		0.75
								AS60188040		1.00
								AS60189		STD
								AS60189010		0.25
								AS60189020		0.50
								AS60189030		0.75
								AS60189040		1.00
256cu. in.		6	2002-09	GMC Vin: S,X L6 DOHC w/1.5 2nd grv	93.00	1.20	3.61	AS60190	6 Cyl.	STD
						1.50	3.78	AS60190010		0.25
						2.50	2.79	AS60190020		0.50
								AS60190030		0.75
								AS60190040		1.00
262cu. in.		8	1975-76	Chevrolet	93.24	2.00	4.42	AS60191	8 Cyl.	STD
262cu. in.			1975-76	Chevrolet		2.00	4.45	AS60191010		0.75
262cu. in.				Chevrolet		4.75	1.27			
								AS60192		STD
								AS60192010		0.75
								AS60193		STD
								AS60193010		0.75
217cu. in.		6	2009-13	Vin: 3 FLEX DOHC V6 Camaro, Caprice, Traverse	94.00	1.00	3.33	AS60194	6 Cyl.	STD
						1.20	3.35	AS60194010		0.25
						1.50	2.97	AS60194020		0.50
								AS60194030		0.75
204cu. in.	3300	6	1989-95	Buick, Chev., Pont. Shallow Oil Ring Groove	94.00	1.50	4.11	AS60195	6 Cyl.	STD
204cu. in.	3300		1989-93	Chev., GMC Shallow Oil Ring Groove		1.50	3.84	AS60195010		0.50
						3.00	3.86	AS60195020		0.75
								AS60195030		1.00
								AS60196		STD
								AS60196010		0.50
								AS60196020		0.75
								AS60196030		1.00
								AS60196040		1.50
213cu. in.		6	2004-13	OHV	94.00	1.20	3.53	AS60197	6 Cyl.	STD
220cu. in.			2004-13	Vin: 7 Buick, Cadillac		1.50	3.84	AS60197010		0.25
220cu. in.			2004-13	Vin: 7		2.50	2.67	AS60197020		0.50
								AS60197030		0.75
								AS60197040		1.00
								AS60198		STD
								AS60198010		0.25
								AS60198020		0.50
								AS60198030		0.75
								AS60198040		1.00

										
GENERAL MOTORS										
248cu. in.		6		GMC	94.46	2.38	4.45	AS60199	6 Cyl.	STD
						3.18	4.17	AS60199010		0.75
						3.18	4.17			
						4.75	4.75			
326cu. in.		8	1964-67	Pontiac	94.46	2.00	4.45	AS60200	8 Cyl.	STD
						2.00	4.47	AS60200010		0.75
						4.75	4.75	AS60200020		1.00
								AS60200030		1.50
								AS60201		STD
								AS60201010		0.75
								AS60201020		1.00
								AS60201030		1.50
								AS60202		STD
								AS60202010		0.75
								AS60202020		1.00
								AS60202030		1.50
248cu. in.		6	1953-55	GMC	94.46	2.38	4.45	AS60203	6 Cyl.	STD
						2.38	4.47	AS60203010		0.75
						2.38	4.47			
						4.75	4.75			
265cu. in.		8	1994-96	Chev, GMC Vin: W Shallow Oil Ring Groove	94.89	2.00	4.17	AS60204	8 Cyl.	STD
305cu. in.			1993-02	Vin: M Shallow Oil Ring Groove		2.00	4.19	AS60204010		0.25
265cu. in.			1994-96	Chev., GMC Vin: W Shallow Oil Ring Groove		4.75	3.81	AS60204020		0.50
305cu. in.			1993-02	, GMC, Vin: M Shallow Oil Ring Groove				AS60204030		0.75
								AS60204040		1.00
								AS60204050		1.50
								AS60205		STD
								AS60205010		0.25
								AS60205020		0.50
								AS60205030		0.75
								AS60205040		1.00
								AS60205050		1.50
305cu. in.		8	1976-93	Buick, Chev., Pont. Deep Oil Groove	94.89	2.00	4.17	AS60206	8 Cyl.	STD
305cu. in.			1977-94	Chevrolet		2.00	4.19	AS60206010		0.25
305cu. in.				GMC Deep Oil Ring Groove		4.75	5.21	AS60206020		0.50
								AS60206030		0.75
								AS60206040		1.00
								AS60206050		1.50
								AS60207		STD
								AS60207010		0.25
								AS60207020		0.50
								AS60207030		0.75
								AS60207040		1.00
								AS60207050		1.50
								AS60208		STD
								AS60208010		0.25
								AS60208020		0.50
								AS60208030		0.75
								AS60208040		1.00
								AS60208050		1.50
		8		305 Buick, Chev., Pont. Low Tension Oil Ring	94.89	2.00	4.47	AS60209	8 Cyl.	STD
						2.00	4.19	AS60209010		1.13
						4.75	3.81			
		8		305 Buick, Chev., Pont.	94.89	1.60	4.17	AS60210	8 Cyl.	STD
						1.60	4.19	AS60210010		0.88
						4.75	4.75			

										
GENERAL MOTORS										
229cu. in.	6	1980-84	Chevrolet, Pontiac	94.89	2.00	4.17		AS60211	6 Cyl.	STD
229cu. in.		1980-85	GMC		2.00	4.19		AS60211010		0.25
					4.75	5.21		AS60211020		0.50
								AS60211030		0.75
								AS60211040		1.00
								AS60211050		1.50
								AS60212		STD
								AS60212010		0.25
								AS60212020		0.50
								AS60212030		0.75
								AS60212040		1.00
								AS60212050		1.50
								AS60213		STD
								AS60213010		0.25
								AS60213020		0.50
								AS60213030		0.75
								AS60213040		1.00
								AS60213050		1.50
261cu. in.	6	1954-62	GMC - Canada	95.25	2.38	4.47		AS60214	6 Cyl.	STD
					2.38	4.50		AS60214010		0.75
					4.75	1.27				
								AS60215		STD
331cu. in.	6		GMC - 4 Ring Piston	95.25	3.18	3.91		AS60216	6 Cyl.	STD
					3.18	3.94				
					3.18	3.94				
					4.75	4.45				
265cu. in.	8	1980-81	Buick, Olds., Pont. Shallow Oil Ring Groove	95.25	2.00	4.47		AS60217	8 Cyl.	STD
					2.00	4.50		AS60217010		0.50
					4.75	1.27		AS60217020		0.75
								AS60217030		1.00
								AS60217040		1.50
								AS60218		STD
								AS60218010		0.50
								AS60218020		0.75
								AS60218030		1.00
								AS60218040		1.50
								AS60219		STD
								AS60219010		0.50
								AS60219020		0.75
								AS60219030		1.00
								AS60219040		1.50
265cu. in.	8	1955-57	Chevrolet	95.25	2.00	4.47		AS60220	8 Cyl.	STD
287cu. in.		1955	Models 27, 28 Pontiac		2.00	4.50		AS60220010		0.25
300cu. in.		1964-67	Buick		4.75	1.27		AS60220020		0.50
303cu. in.		1949-53	Oldsmobile Canada 36, 37					AS60220030		0.75
340cu. in.		1966-67	Buick					AS60220040		1.00
265cu. in.		1955-57	Chevrolet					AS60220050		1.50
288cu. in.		1955	All 2 Eng. GMC - Canada 265					AS60220060		2.00
								AS60220070		2.50
								AS60221		STD
								AS60221010		0.25
								AS60221020		0.50
								AS60221030		0.75
								AS60221040		1.00
								AS60221050		1.50
								AS60222		STD
								AS60222010		0.25
								AS60222020		2.50
								AS60222030		0.50
								AS60222040		0.75
								AS60222050		1.00
								AS60222050		1.50
								AS60222060		2.00

										
GENERAL MOTORS										
215 C.I.D.		6	1964-65	3.5L Pontiac Tempest, Lemans	95.25	2.00	4.47	AS60223	6 Cyl.	STD
225 C.I.D.		6	1964-67	Buick, Oldsmobile, Pontiac		2.00	4.50	AS60223010		0.25
						4.75	1.27	AS60223020		0.50
								AS60223030		0.75
								AS60223040		1.00
								AS60223050		1.50
								AS60224		STD
								AS60224010		0.25
								AS60224020		0.50
								AS60224030		0.75
								AS60224040		1.00
								AS60224050		1.50
								AS60225		STD
								AS60225010		0.25
								AS60225020		0.50
								AS60225030		0.75
								AS60225040		1.00
								AS60225050		1.50
120cu. in.		4	1971-72	OHC Firenza	95.25	2.00	4.47	AS60226	4 Cyl.	STD
						2.00	4.50	AS60226010		0.25
						4.75	4.88	AS60226020		0.50
								AS60226030		0.75
								AS60227		STD
223cu. in.	3654	5	2007-12	Vin: E L5, DOHC Hummer H3, H3T	95.50	1.20	3.73	AS60228	5 Cyl.	STD
						1.50	4.19	AS60228010		0.50
						2.50	2.92	AS60228020		0.75
								AS60228030		1.00
177cu. in.		4	2007-12	DOHC Vin: 9	95.50	1.20	3.73	AS60229	4 Cyl.	STD
						1.50	4.19	AS60229010		0.50
						2.50	2.92	AS60229020		0.75
								AS60229030		1.00
294cu. in.		8	1999-13	Vin: A,C,V,O,7,4 FLEX Shallow Top Grv.	96.00	1.50	3.86	AS60230	8 Cyl.	STD
323cu. in.			1999-13	Gas Vin: B,C,J,L,M,PTZ lex fuel Vin: 0,3,4 LC9, LS4		1.50	3.73	AS60230010		0.25
						3.00	3.81	AS60230020		0.50
								AS60230030		0.75
								AS60230040		1.00
								AS60230050		1.50
								AS60231	8 Cyl.	STD
							3.73	AS60231010		0.50
		8		323cu.in. Steel Moly top ring Napier ductile iron 2nd ring	96.01	1.50	3.86	AS60232	8 Cyl.	STD
						1.50	4.19			
						3.00	3.81			
326cu. in.		8	1963	Pontiac	96.05	2.00	4.47	AS60233	8 Cyl.	STD
336 cu. in.			1959	GMC S/N 33635001-on		2.00	4.22			
						4.75	1.27			
231cu. in.		6	1987-92	Buick, Chev., Pont. Shallow Oil Ring Groove	96.50	1.50	3.94	AS60234	6 Cyl.	STD
231cu. in.			1987-95	Chev.,GMC Shallow Oil Ring Groove		1.50	3.73	AS60234010		0.50
						3.00	1.27	AS60234020		0.75
								AS60234030		1.00
								AS60234040		1.50
								AS60235		STD
								AS60235010		0.50
								AS60235020		0.75
								AS60235030		1.00
								AS60235040		1.50

										
GENERAL MOTORS										
231cu. in.	3800	6	1993-95	V6 Vin: 1,L	96.50	1.20	3.61	AS60236	6 Cyl.	STD
						1.50	3.73	AS60236010		0.25
						3.00	3.81	AS60236020		0.50
								AS60236030		0.75
								AS60236040		1.00
								AS60236050		1.50
231cu. in.	3800	6	1996-09	Vin: 1,2,4,K	96.50	1.20	3.61	AS60237	6 Cyl.	STD
						1.50	3.73	AS60237010		0.25
						2.00	3.30	AS60237020		0.50
								AS60237030		0.75
								AS60237040		1.00
181cu. in.		6	1982-88	Chevrolet	96.52	2.00	3.71	AS60238	6 Cyl.	STD
231cu. in.			1975-86	Buick		2.00	4.57	AS60238010		0.50
231cu. in.			1985	Chevrolet, GMC		4.75	4.62	AS60238020		0.75
								AS60238030		1.00
								AS60238040		1.50
								AS60239		STD
								AS60239010		0.25
								AS60239020		0.50
								AS60239030		0.75
								AS60239040		1.00
								AS60239050		1.50
								AS60240		STD
								AS60240010		0.50
								AS60240020		0.75
								AS60240030		1.00
								AS60240040		1.50
231cu. in.		6	1978-87	Buick Turbo	96.52	2.00	4.55	AS60241	6 Cyl.	STD
						2.00	4.57	AS60241010		0.50
						4.75	4.62	AS60241020		0.75
								AS60241030		1.00
								AS60241040		1.50
368cu. in.		8	1980-84	Cadillac Shallow Oil Ring Groove	96.52	2.00	3.71	AS60242	8 Cyl.	STD
						2.00	4.57	AS60242010		0.50
						4.75	1.27	AS60242020		0.75
								AS60242030		1.00
								AS60242040		1.50
								AS60243		STD
								AS60243010		0.50
								AS60243020		0.75
								AS60243030		1.00
								AS60243040		1.50
307cu. in.		8	1981-90	Buick, Cadillac, Oldsmobile, Pontiac	96.52	2.00	3.71	AS60244	8 Cyl.	STD
350cu. in.			1968-80	Buick		2.00	4.57	AS60244010		0.25
307cu. in.				Chevrolet, Oldsmobile		4.75	4.62	AS60244020		0.50
								AS60244030		0.75
								AS60244040		1.00
								AS60244050		1.50
								AS60245		STD
								AS60245010		0.25
								AS60245020		0.50
								AS60245030		0.75
								AS60245040		1.00
								AS60245050		1.50
								AS60246		STD
								AS60246010		0.50
								AS60246020		0.75
								AS60246030		1.00
								AS60246040		1.50

										
GENERAL MOTORS										
400cu. in.		8	1968-69	Oldsmobile	98.30	2.00	4.62	AS60247	8 Cyl.	STD
						2.00	4.65	AS60247010		1.00
						4.75	5.00	AS60247020		1.50
								AS60248		STD
								AS60248010		1.00
								AS60248020		1.50
								AS60249		STD
								AS60249010		1.00
								AS60249020		1.50
292cu. in.		6		Chev., GMC Fits Brazilian Mahle Piston	98.43	2.38	4.62	AS60250	6 Cyl.	STD
						2.38	3.99			
						4.75	4.62			
		8		283, 307 Engs. Racing Pistons Chevrolet	98.43	1.60	4.62	AS60251	8 Cyl.	STD
						1.60	4.65	AS60251010		1.63
						3.00	4.75			
283cu. in.		8	1957-67	Chevrolet	98.43	2.00	4.62	AS60252	8 Cyl.	STD
307cu. in.			1968-73	Chevrolet		2.00	4.65	AS60252010		0.25
324cu. in.			1954-56	Oldsmobile Canada 30,36		4.75	4.88	AS60252020		0.50
350cu. in.			1968-77	Pontiac				AS60252030		0.75
307cu. in.			1957-67	283, 3 Chevrolet				AS60252040		1.00
283cu. in.			1968-73	GMC				AS60252050		1.50
307cu. in.			1955-56	GMC				AS60252060		2.00
324cu. in.			1958-59	GMC				AS60253		STD
336 cu. in.				GMC To S/N 33635001				AS60253010		0.25
								AS60253020		0.50
250cu. in.		6	1966-70	Chevrolet, Pontiac	98.43	1.60	4.62	AS60254	6 Cyl.	STD
						1.60	4.65			
						4.75	4.88			
								AS60255		STD
								AS60255010		0.25
								AS60255020		0.75
346cu. in.		8	1997-04	LS1 Vin: G,S Corvette, Camaro, Firebird FOR CAST IRON SLEEVES ONLY	99.00	1.50	3.66	AS60256	8 Cyl.	STD
						1.50	4.01	AS60256010		0.05
						3.00	3.81	AS60256020		0.13
								AS60256030		0.25
								AS60256040		0.50
								AS60256050		0.75
								AS60256060		1.00
214cu. in.		6	2004-11	Vin: K, N LZ43.5N	99.00	1.20	3.73	AS60257	6 Cyl.	STD
238cu. in.			2004-12	Vin: M,R,W,1,3 LZG(gas) LZE(lex-fuel) OHV		1.50	4.01	AS60257010		0.50
238cu. in.			2004-11	Vin: N,R,W,1,3 LZG(gas) LZE(lex-fuel)		2.50	2.79	AS60257020		0.75
								AS60257030		1.00

										
GENERAL MOTORS										
366cu. in.	8	1991-97	V8 4 Ring Piston/Shallow Oil Ring Groove	100.01	2.38	4.34		AS60258	8 Cyl.	STD
					2.00	4.37		AS60258010		0.25
					2.00	4.37		AS60258020		0.50
					4.75	3.43		AS60258030		0.75
								AS60258040		1.00
								AS60258050		1.50
								AS60259		STD
								AS60259010		0.25
								AS60259020		0.50
								AS60259030		0.75
								AS60259040		1.00
								AS60259050		1.50
								AS60260		STD
								AS60260010		0.25
								AS60260020		0.50
								AS60260030		0.75
								AS60260040		1.00
								AS60260050		1.50
366cu. in.	8	1991-97	V8 3 Ring Piston/Shallow Oil Ring Groove	100.01	2.38	4.34		AS60261	8 Cyl.	STD
					2.00	4.37		AS60261010		0.25
					4.75	3.43		AS60261020		0.50
								AS60261030		0.75
								AS60261040		1.00
								AS60261050		1.50
								AS60262		STD
								AS60262010		0.25
								AS60262020		0.50
								AS60262030		0.75
								AS60262040		1.00
								AS60262050		1.50
								AS60263		STD
								AS60263010		0.25
								AS60263020		0.50
								AS60263030		0.75
								AS60263040		1.00
								AS60263050		1.50
316cu. in.	8	1956-57	All Models 27, 28 Pontiac	100.01	2.00	4.34		AS60264	8 Cyl.	STD
330cu. in.		1964-67	Oldsmobile		2.00	4.37		AS60264010		0.75
316cu. in.		1955-56	GMC		4.75	1.27				
347 cu. in.		1957	GMC							
366cu. in.	8	1966-90	Chev., GMC	100.01	2.38	4.34		AS60265	8 Cyl.	STD
					2.00	4.37		AS60265010		0.25
					2.00	4.37		AS60265020		0.50
					4.75	4.88		AS60265030		0.75
								AS60265040		1.00
								AS60265050		1.50
								AS60266		STD
								AS60266010		0.25
								AS60266020		0.50
								AS60266030		0.75
								AS60266040		1.00
								AS60266050		1.50
								AS60267		STD
								AS60267010		0.50
								AS60267020		0.75
								AS60267030		1.00
								AS60267040		1.50

										
GENERAL MOTORS										
252cu. in.		6	1980-87	Buick, Cadillac, Pontiac, Oldsmobile	100.71	2.00	4.37	AS60268	6 Cyl.	STD
						2.00	4.39	AS60268010		0.50
						4.75	4.88	AS60268020		0.75
								AS60268030		1.00
								AS60268040		1.50
								AS60269		STD
								AS60269010		0.50
								AS60269020		0.75
								AS60269030		1.00
								AS60269040		1.50
								AS60270		STD
								AS60270010		0.50
								AS60270020		0.75
								AS60270030		1.00
								AS60270040		1.50
379cu. in.		8	1982-95	Diesel GMC Incl. Turbo Special .029 to .039 gap 2nd Ring	101.05	2.80	4.37	AS60271	8 Cyl.	STD
						2.00	4.39	AS60271010		0.50
						4.00	4.45	AS60271020		0.75
								AS60271030		1.00
								AS60271040		1.50
379cu. in.		8	1982-95	Diesel GMC Incl. Turbo	101.05	2.80	4.37	AS60272	8 Cyl.	STD
						2.00	4.39	AS60272010		0.50
						4.00	4.45	AS60272020		0.75
								AS60272030		1.00
								AS60272040		1.50
301 C.I.D.		8	1977-79	4.9L Pontiac	101.60	2.00	4.78	AS60273	8 Cyl.	STD
302 C.I.D.		8	1967-70	5.0L Chevrolet Camaro Rally Package		2.00	4.80	AS60273010		0.25
322 C.I.D.		8	1953-60	5.3L 40, 50, 60, 70 Series Buick, Chevy Truck		4.75	4.88	AS60273020		0.50
327 C.I.D.		8	1962-69	5.4L Chevrolet, GMC, Truck				AS60273030		0.75
L (76-82) G(77) H(78) V(76)		8	1967-85	5.7L 350 C.I.D. Chevrolet				AS60273040		1.00
L (76-82) G(77) H(78) V(76)		8	1977-79	5.7L 350 C.I.D. Buick, Oldsmobile, Pontiac				AS60273050		1.50
350 C.I.D. VIN. L		8	1968-89	5.7L 350 C.I.D. GMC deep oil groove				AS60273060		1.75
365C.I.D.		8	1956-58	6.0L Cadillac				AS60273070		2.00
390 C.I.D.		8	1959-63	6.4L Cadillac				AS60273080		2.50
400 C.I.D.		8	1965-67	6.6L Oldsmobile				AS60274		STD
								AS60274010		0.25
								AS60274020		0.50
								AS60274030		0.75
								AS60274040		1.00
								AS60274050		1.50
								AS60274060		1.75
								AS60274070		2.00
								AS60275		STD
								AS60275010		0.13
								AS60275020		0.25
								AS60275030		0.50
								AS60275040		0.75
								AS60275050		1.00
								AS60275060		1.50
								AS60275070		1.75
								AS60275080		2.00
								AS60275090		2.50

										
GENERAL MOTORS										
151 C.I.D.		4	1982-93	2.5L Chevorlet, Buick, Oldsmobile, Pontiac	101.60	1.60	4.78	AS60276	4 Cyl.	STD
151 C.I.D.		4	1982-93	2.5L GMC Truck DEEP OIL GROOVE		2.00 4.75	4.80 4.88	AS60276010		0.50
								AS60276020		0.75
								AS60276030		1.00
								AS60276040		1.50
								AS60277		STD
								AS60277010		0.50
								AS60277020		0.75
								AS60277030		1.00
								AS60277040		1.50
								AS60278		STD
								AS60278010		0.50
								AS60278020		0.75
								AS60278030		1.00
								AS60278040		1.50
350cu. in.		8	1990-02	Light Wt. Piston, LT1 Shallow Oil Ring Groove Vin: RP5,7,8	101.60	2.00	4.78	AS60279	8 Cyl.	STD
350cu. in.			1990-02	Light Wt. Piston, Vin: R Shallow Oil Ring Groove		1.50 4.00	4.37 3.81	AS60279010		0.13
								AS60279020		0.25
								AS60279030		0.50
								AS60279040		0.75
								AS60279050		1.00
								AS60279060		1.50
								AS60280		STD
								AS60280010		0.13
								AS60280020		0.25
								AS60280030		0.50
								AS60280040		0.63
								AS60280050		0.75
								AS60280060		0.88
								AS60280070		1.00
								AS60280080		1.50
262cu. in.		6	1990-95		101.60	2.00	4.78	AS60281	6 Cyl.	STD
262cu. in.			1990-95			1.50 4.00	4.37 3.81	AS60281010		0.50
								AS60281020		0.75
								AS60281030		1.00
								AS60281040		1.50
								AS60282		STD
								AS60282010		0.50
								AS60282020		0.75
								AS60282030		1.00
								AS60282040		1.50
262cu. in.		6	1988-95	Vin: Z Shallow Oil Ring Groove	101.60	2.00	4.78	AS60283	6 Cyl.	STD
262cu. in.			1988-95	Vin: Z Shallow Oil Ring Groove		2.00 4.75	4.80 1.27	AS60283010		0.50
								AS60283020		0.75
								AS60283030		1.00
								AS60283040		1.50
								AS60284		STD
								AS60284010		0.50
								AS60284020		0.75
								AS60284030		1.00
								AS60284040		1.50
350cu. in.		8	1996-00	(Vortec) Shallow Oil Ring groove	101.60	1.50	3.96	AS60285	8 Cyl.	STD
350cu. in.			1996-00	(Vortec) Shallow Oil Ring groove		1.50	4.37	AS60285010		0.50
364cu. in.			1999-04	V8 Vin: H,N,U		3.00	3.81	AS60285020		0.75
								AS60285030		1.00
								AS60285040		1.50
								AS60286		STD
								AS60286010		0.13
								AS60286020		0.25
								AS60286030		0.50
								AS60286040		0.75
								AS60286050		1.00
								AS60286060		1.13
								AS60286070		1.50

										
GENERAL MOTORS										
262cu. in.		6	1996-97	Vin: W,X	101.60	1.50	3.96	AS60287	6 Cyl.	STD
262cu. in.			1996-13	Vin: W,X		1.50	4.37	AS60287010		0.50
						3.00	3.81	AS60287020		0.75
								AS60287030		1.00
								AS60287040		1.50
								AS60288		STD
								AS60288010		0.50
								AS60288020		0.75
								AS60288030		1.00
								AS60288040		1.50
364cu. in.		8	2005-13	LS2, L96 Pontiac GTO, Corvette	101.60	1.20	3.61	AS60289	8 Cyl.	STD
364cu. in.			2005-13	LS2, L96, LC8, LZ1 Vin: B,G,H,K,U,Y,2,5,8 fuel type CNG,FLEX, GAS, Electric/Gas		1.50	4.37	AS60289010		0.13
						2.50	2.92	AS60289020		0.25
								AS60289030		0.50
								AS60289040		0.75
								AS60289050		1.00
								AS60289060		1.50
302cu. in.		6	1952-59	GMC	101.60	2.50	4.78	AS60290	6 Cyl.	STD
						2.38	4.42	AS60290010		1.50
						2.38	4.42			
						4.75	4.88			
181cu. in.		4		Chevrolet	101.60	2.00	4.78	AS60291	4 Cyl.	STD
151cu. in.				Chevrolet		2.00	4.80	AS60291010		0.50
						4.75	5.00	AS60291020		0.75
								AS60291030		1.50
		8	1962-69	302 Chevrolet Low Tension Oil Ring	101.60	2.00	4.78	AS60292	8 Cyl.	STD
			1966-75	327 Chevrolet Low Tension Oil Ring		2.00	4.80	AS60292010		0.75
			1956-63	350 V8 Chevrolet Low Tension Oil Ring		4.75	3.81	AS60292020		1.00
			1965-67	365, 390 Engs. Cadillac Low Tension Oil Ring				AS60292030		1.13
			1967-68	400 Oldsmobile Low Tension Oil Ring						
		8		302, 327, 350 Engs. Low Tension Oil Ring	101.60	1.60	4.78	AS60293	8 Cyl.	STD
						1.60	4.80	AS60293010		0.75
						4.75	3.81	AS60293020		0.88
								AS60293030		1.00
								AS60293040		1.13
								AS60293050		1.50
								AS60293060		1.63
		8	1962-69	302 Chevrolet	101.60	2.00	4.78	AS60294	8 Cyl.	STD
			1966-75	327 Chevrolet		2.00	4.80	AS60294010		0.13
			1956-63	350 V8 Chevrolet		4.75	5.00	AS60294020		0.50
			1965-67	365, 390 Engs. Cadillac				AS60294030		0.63
			1967-68	400 Oldsmobile				AS60294040		0.75
								AS60294050		0.88
								AS60294060		1.00
								AS60294070		1.13
								AS60294080		1.50
								AS60294090		1.63

										
GENERAL MOTORS										
		8		302, 327, 350 Engs.	101.60	1.60	4.78		AS60295 8 Cyl.	STD
						1.60	4.80		AS60295010	0.75
						3.00	4.75		AS60295020	0.88
									AS60295030	1.00
									AS60295040	1.50
		8			101.60	1.60	4.78		AS60296 8 Cyl.	STD
						1.60	4.80		AS60296010	0.13
						3.00	4.75		AS60296020	0.25
									AS60296030	0.50
									AS60296040	0.63
									AS60296050	0.75
									AS60296060	0.88
									AS60296070	1.00
									AS60296080	1.13
									AS60296090	1.50
									AS60296100	1.63
		8		302, 327, 350 Engs.	101.60	1.60	4.78		AS60297 8 Cyl.	STD
						1.60	4.80		AS60297010	0.13
						4.75	4.75		AS60297020	0.25
									AS60297030	0.50
									AS60297040	0.63
									AS60297050	0.75
									AS60297060	0.88
									AS60297070	1.00
									AS60297080	1.13
									AS60297090	1.50
									AS60297100	1.63
									AS60297101	2.00
		8			101.60	2.00	4.85		AS60298 8 Cyl.	STD
						2.00	4.80			
						4.75	4.88			
									AS60299	STD
									AS60299010	0.75
		8			101.60	1.60	4.78		AS60300 8 Cyl.	STD
						1.60	4.80		AS60300010	0.75
						4.75	4.88		AS60300020	1.00
									AS60300030	1.50
									AS60301	STD
									AS60301010	0.50
									AS60301020	0.75
									AS60301030	0.88
									AS60301040	1.00
									AS60301050	1.50
		8		302, 327, 350 Engs. Contains 3.0MM Oil Ring	101.60	1.60	4.78		AS60302 8 Cyl.	STD
						1.60	4.80		AS60302010	0.13
						3.00	3.86		AS60302020	0.25
									AS60302030	0.50
									AS60302040	0.63
									AS60302050	0.75
									AS60302060	0.88
									AS60302070	1.00
									AS60302080	1.13
									AS60302090	1.50
									AS60302100	1.63
									AS60302101	1.88
									AS60302102	2.13

										
GENERAL MOTORS										
	8			327, 350, Chevrolet w/1.5mm Comp & 3.0mm Oil	101.60	1.50	4.78	AS60303	8 Cyl.	STD
						1.50	4.37			
						3.00	3.81			
								AS60304		STD
								AS60304010		0.75
								AS60305		STD
								AS60305010		0.13
								AS60305020		0.63
								AS60305030		0.75
								AS60305040		0.88
								AS60305050		1.00
								AS60305060		1.13
								AS60305070		1.50
								AS60305080		1.63
								AS60305090		2.13
151cu. in.	4		1978-80	Buick, Chevrolet	101.60	2.00	4.78	AS60306	4 Cyl.	STD
						2.00	4.80	AS60306010		0.50
						4.75	4.88	AS60306020		0.75
								AS60306030		1.00
								AS60306040		1.50
								AS60307		STD
								AS60307010		0.50
								AS60307020		0.75
								AS60307030		1.00
								AS60307040		1.50
								AS60308		STD
								AS60308010		0.50
								AS60308020		0.75
								AS60308030		1.00
								AS60308040		1.50
								AS60308040		1.63
								AS60309		STD
								AS60309010		0.50
								AS60309020		0.75
								AS60309030		1.00
								AS60309040		1.50
								AS60309050		1.63
50, cu. in.	8			327, 3 Eng. contains Steel Moly top rings	101.60	1.09	4.09	AS60310	8 Cyl.	STD
						1.09	4.37	AS60310010		0.75
						3.00	3.86	AS60310020		0.88
								AS60310030		1.00
								AS60310040		1.13
								AS60310050		1.50
								AS60310060		1.63
301cu. in.	8		1980-81	Pontiac Shallow Oil Ring Groove	101.60	2.00	4.78	AS60311	8 Cyl.	STD
350cu. in.			1986-89	Vin: K Chevrolet Shallow Oil Ring Groove		2.00	4.80	AS60311010		0.50
350cu. in.			1987-96	Vin: K GMC Shallow Oil Ring Groove		4.75	1.27	AS60311020		0.75
								AS60311030		1.00
								AS60311040		1.50
								AS60311050		2.00
								AS60312		STD
								AS60312010		0.50
								AS60312020		0.75
								AS60312030		1.00
								AS60312040		1.50
								AS60313		STD
								AS60313010		0.50
								AS60313020		0.75
								AS60313030		1.00
								AS60313040		1.50
								AS60313050		2.00

										
GENERAL MOTORS										
301cu. in.	8	1980-81	Buick, Pontiac Turbo Shallow Oil Ring Groove	101.60	2.00	4.78		AS60314	8 Cyl.	STD
					2.00	4.80		AS60314010		0.50
					4.75	1.27		AS60314020		0.75
								AS60314030		1.00
								AS60314040		1.50
151cu. in.	4	1981	Chevrolet, Pontiac Shallow Oil Ring Groove Also it Brazilian Mahle Piston	101.60	2.00	4.78		AS60315	4 Cyl.	STD
					2.00	4.80		AS60315010		0.50
					4.75	1.27		AS60315020		0.75
								AS60315030		1.00
								AS60316		STD
								AS60316010		0.50
								AS60316020		0.75
								AS60316030		1.00
								AS60316040		1.50
								AS60317		STD
								AS60317010		0.50
								AS60317020		0.75
								AS60317030		1.00
151cu. in.	4	1982-93	Buick, Chevrolet Shallow Oil Ring Groove	101.60	1.60	4.78		AS60318	4 Cyl.	STD
151cu. in.		1985-93	GMC Shallow Oil Ring Groove		2.00	4.80		AS60318010		0.50
					4.75	1.27		AS60318020		0.75
								AS60318030		1.00
								AS60318040		1.50
								AS60319		STD
								AS60319010		0.50
								AS60319020		0.75
								AS60319030		1.00
								AS60319040		1.50
								AS60320		STD
								AS60320010		0.50
								AS60320020		0.75
								AS60320030		1.00
								AS60320040		1.50
262cu. in.	6	1985-93	Vin: N,Z Chevrolet, Pontiac Deep Oil Groove	101.60	2.00	4.78		AS60321	6 Cyl.	STD
262cu. in.		1985-94	Chevrolet		2.00	4.80		AS60321010		0.50
262cu. in.			Chev., Vin; Z Deep Oil Ring Groove		4.75	4.24		AS60321020		0.75
								AS60321030		1.00
								AS60321040		1.50
								AS60322		STD
								AS60322010		0.50
								AS60322020		0.75
								AS60322030		1.00
								AS60322040		1.50
								AS60323		STD
								AS60323010		0.50
								AS60323020		0.75
								AS60323030		1.00
								AS60323040		1.50
370cu. in.	8	1957-59		101.60	2.00	4.78		AS60324	8 Cyl.	STD
					2.38	4.80		AS60324010		0.50
					4.75	4.88		AS60324020		0.75
								AS60324030		1.00
								AS60324040		1.50
								AS60325		STD
								AS60325010		0.50
								AS60325020		0.75
								AS60325030		1.00
								AS60325040		1.50
								AS60326		STD
								AS60326010		0.50
								AS60326020		0.75
								AS60326030		1.00
								AS60326040		1.50

										
GENERAL MOTORS										
371cu. in.	8	1957-60	Oldsmobile	101.60	2.00	4.78		AS60327	8 Cyl.	STD
					2.38	4.80				
					4.75	4.88				
	8		327, 350, Chevrolet Napier ductile iron 2nd ring w/1.5mm Comp & 3.0mm Oil	101.60	1.50	4.09		AS60328	8 Cyl.	STD
					1.50	4.37		AS60328010		0.13
					3.00	3.81		AS60328020		0.88
								AS60328030		1.13
								AS60328040		1.63
								AS60329		STD
								AS60329010		0.88
								AS60329020		1.63
	8		302, 327, 350 Engs. contains Steel Moly top rings	101.60	1.09	4.09		AS60330	8 Cyl.	STD
					1.60	4.80		AS60330010		0.13
					4.75	4.75		AS60330020		0.63
								AS60330030		0.88
								AS60330040		1.13
								AS60330050		1.63
								AS60330060		2.00
	8		302, 327, 350 Engs. contains Steel Moly top rings Low Tension Oil Ring	101.60	1.09	4.09		AS60331	8 Cyl.	STD
					1.60	4.80		AS60331010		0.88
					4.75	3.81		AS60331020		1.13
								AS60331030		1.63
								AS60331040		2.00
	8		302, 327, 350 Engs. w/ Napier 2nd ring	101.60	1.60	4.78		AS60332	8 Cyl.	STD
					1.60	4.42		AS60332010		0.13
					4.75	4.75		AS60332020		0.75
								AS60332030		0.88
								AS60332040		1.00
								AS60332050		1.13
								AS60332060		1.50
								AS60332070		1.63
	8		302, 327, 350 Engs. Napier 2nd ring Low Tension Oil Ring	101.60	1.60	4.78		AS60333	8 Cyl.	STD
					1.60	4.42		AS60333010		0.75
					4.75	3.81		AS60333020		0.88
								AS60333030		1.00
								AS60333040		1.13
								AS60333050		1.50
								AS60333060		1.63
50, cu. in.	8		327, 3 Engs. contains Steel Moly top ring w/napier 2nd ring	101.60	1.09	4.09		AS60334	8 Cyl.	STD
					1.09	4.37		AS60334010		0.13
					3.00	3.86		AS60334020		0.63
								AS60334030		0.88
								AS60334040		1.13
								AS60334050		1.38
								AS60334060		1.50
								AS60334070		1.63
								AS60334080		1.75
	8		302, 327, 350 Engs. Contains 1/8" Oil Rings w/ napier 2nd ring	101.60	1.60	4.78		AS60335	8 Cyl.	STD
					1.60	4.42		AS60335010		0.13
					3.00	4.75		AS60335020		0.75
								AS60335030		0.88
								AS60335040		1.13
								AS60335050		1.63
	8	1967-69	400, GS400 Buick	102.62	2.00	4.78		AS60336	8 Cyl.	STD
					2.00	4.83				
					4.75	5.00				

										
GENERAL MOTORS										
400cu. in.		8	1967-69	GS400, 4 Engs. Buick	102.62	2.00	4.29	AS60337	8 Cyl.	STD
						2.00	4.83	AS60337010		0.50
						4.75	5.08	AS60337020		0.75
								AS60337030		1.00
								AS60337040		1.50
								AS60337050		1.75
								AS60338		STD
								AS60338010		0.50
								AS60338020		0.75
								AS60338030		1.00
								AS60339		STD
								AS60339010		0.50
								AS60339020		0.75
								AS60339030		1.00
								AS60339040		1.50
395cu. in.		8	1992-06	Diesel Incl. Turbo Vin: F,S,Y Special .029 to .039 gap 2nd ring	103.00	3.00	4.47	AS60340	8 Cyl.	STD
						2.00	4.24	AS60340010		0.50
						4.00	5.31	AS60340020		0.75
								AS60340030		1.00
								AS60340040		1.50
403 cu. in.		8	2001-13	V8 OHV VIN:1,2,3,8,D,L 32V Duramax Diesel	103.00	3.00	3.96	AS60341	8 Cyl.	STD
						2.00	4.50	AS60341010		0.50
						3.00	3.48	AS60341020		1.00
350cu. in.		8	1978-85	Diesel Chev., Olds., Pont.	103.06	2.00	4.80	AS60342	8 Cyl.	STD
350cu. in.			1978-81	Diesel GMC		2.00	4.88	AS60342010		0.25
						4.75	4.60	AS60342020		0.50
								AS60342030		0.75
								AS60342040		1.00
263cu. in.		6	1982-85	Diesel Buick, Cadillac, Chevrolet, Pontiac	103.07	2.00	4.80	AS60343	6 Cyl.	STD
						2.00	4.88	AS60343010		0.50
						4.75	4.60	AS60343020		0.75
								AS60343030		1.00
350cu. in.		8	1968-80	Buick,Cad.,Pont. Oldsmobile	103.07	2.00	4.85	AS60343	8 Cyl.	STD
350cu. in.				Vin: R Oldsmobile		2.00	4.88	AS60343010		0.75
						4.75	5.00	AS60343020		1.00
								AS60343030		1.50
								AS60344		STD
								AS60344010		0.50
								AS60344020		0.75
								AS60344030		1.00
								AS60345		STD
								AS60345010		0.75
		8	1959-66	370, 389 Pontiac	103.19	2.00	4.80	AS60346	8 Cyl.	STD
						2.00	4.88	AS60346010		0.88
						4.75	5.00			
389cu. in.		8	1958-66	370, 3 Engs. Pontiac	103.19	2.00	4.85	AS60347	8 Cyl.	STD
						2.00	4.88	AS60347010		0.75
						4.75	1.27	AS60347020		1.00
								AS60347030		1.50
								AS60348		STD
								AS60348010		1.00
								AS60348020		1.50
								AS60349		STD
								AS60349010		0.75
								AS60349020		1.00
195cu. in.		4	1961-63	Pontiac Tempest, Lemans	103.19	2.00	4.85	AS60350	4 Cyl.	STD
						2.00	4.88	AS60350010		0.75
						4.75	1.27	AS60350020		1.00
								AS60350030		1.50

										
GENERAL MOTORS										
376cu. in.		8	2009-14	Vin: T LS9, ZK1 Supercharged Gen IV Cadillac CTS-V, Corvette	103.25	1.50	3.86	AS60351	8 Cyl.	STD
376cu. in.			2009-11	Vin: T LS9, ZK1 Supercharged Denali, Escalade, Yukon		1.20	4.32			
						2.00	2.92			
378cu. in.		8	2008-13	Vin: F, J, P, R, T, W, 2 OHV V8 LS3, LSA, L94, L9H, L99 Corvette, Camaro, Cadillac CTS	103.25	1.50	3.96	AS60352	8 Cyl.	STD
378cu. in.			2007-13	Vin: 8, 2, R, W OHV V8 LS3, L9H(FlexFuel) L92, L99 Escalade, Sierra, Yukon		1.50	4.32	AS60352010		0.25
						2.50	2.97	AS60352020		0.50
								AS60352030		0.75
								AS60352040		1.00
425cu. in.		8	1977-79	Cadillac	103.69	2.00	4.88	AS60353	8 Cyl.	STD
						2.00	4.90	AS60353010		0.50
						4.75	1.27	AS60353020		0.75
								AS60353030		1.00
								AS60353040		1.50
								AS60354		STD
								AS60354010		0.50
								AS60354020		0.75
								AS60354030		1.00
								AS60354040		1.50
								AS60355		STD
								AS60355010		0.50
								AS60355020		0.75
								AS60355030		1.00
								AS60355040		1.50
		8	1965-69	396 Chevrolet	103.98	2.00	4.88	AS60356	8 Cyl.	STD
			1963-66	421 Pontiac		2.00	4.90	AS60356010		0.75
						4.75	5.08	AS60356020		1.50
396cu. in.		8	1965-69	Chevrolet	103.98	2.00	4.88	AS60357	8 Cyl.	STD
421cu. in.			1963-66	Pontiac		2.00	4.90	AS60357010		0.75
396cu. in.			1966-69	Chevrolet		4.75	1.27	AS60357020		1.00
396cu. in.				GMC				AS60357030		1.50
								AS60358		STD
								AS60358010		0.75
								AS60358020		1.00
								AS60358030		1.50
		8		400, 428 Engs. GM/KB Piston	104.65	1.60	4.88	AS60359	8 Cyl.	STD
						1.60	4.95	AS60359010		0.88
						4.75	4.88	AS60359020		1.13
								AS60359030		1.63
400cu. in.		8	1967-79	Pontiac, Oldsmobile	104.65	2.00	4.93	AS60360	8 Cyl.	STD
428cu. in.			1967-77	Pontiac		2.00	4.95	AS60360010		0.25
						4.75	4.88	AS60360020		0.50
								AS60360030		0.75
								AS60360040		1.00
								AS60360050		1.50
								AS60361		STD
								AS60361010		0.25
								AS60361020		0.50
								AS60361030		0.75
								AS60361040		1.00
								AS60361050		1.50
								AS60362		STD
								AS60362010		0.50
								AS60362020		0.75
								AS60362030		1.00
								AS60362040		1.50

										
GENERAL MOTORS										
427cu. in.	8	2006-13	Vin:E OHV Vortec LS7, ZO6	Corvette	104.80	1.20	3.61	AS60363	8 Cyl.	STD
						1.20	4.32	AS60363010		0.25
						2.00	2.79	AS60363020		0.50
								AS60363030		0.75
				400 , small block	104.78	1.60	4.93	AS60364	8 Cyl.	STD
						1.60	4.95	AS60363010		0.75
						3.00	4.39			
	8	1970-77			104.78	1.60	4.88	AS60365	8 Cyl.	STD
						1.60	4.95	AS60365010		0.13
						3.00	4.39	AS60365020		0.75
								AS60365030		0.88
	8		400,402 Engs. TRW Piston	Chevrolet Low Tension Oil	104.78	1.60	4.88	AS60366	8 Cyl.	STD
				Ring		1.60	4.95	AS60366010		0.13
						4.75	3.81	AS60366020		0.75
								AS60366030		0.88
								AS60366040		1.00
								AS60366050		1.13
								AS60366060		1.50
	8	1958-61	348 Chevrolet		104.78	2.00	4.88	AS60367	8 Cyl.	STD
		1970-75	396, 400, 402 Engs.	Chevrolet		2.00	4.95	AS60367010		0.13
		1965-67	425 Oldsmobile			4.75	5.21	AS60367020		0.63
		1968-75	455 Oldsmobile					AS60367030		0.75
								AS60367040		0.88
								AS60367050		1.00
								AS60367060		1.13
								AS60367070		1.50
								AS60367080		1.63
	8	1970-75	400,402 Engs. TRW Piston	Chevrolet	104.78	1.60	4.88	AS60368	8 Cyl.	STD
						1.60	4.95	AS60368010		0.13
						4.75	4.75	AS60368020		0.25
								AS60368030		0.50
								AS60368040		0.63
								AS60368050		0.75
								AS60368060		0.88
								AS60368070		1.00
								AS60368080		0.13
								AS60368090		1.50
								AS60368100		1.63
	8				104.78	2.00	4.93	AS60369	8 Cyl.	STD
						2.00	4.95			
						4.75	5.21			
								AS60370		STD
								AS60370010		0.75
	8				104.78	1.60	4.93	AS60371	8 Cyl.	STD
						1.60	4.95	AS60371010		0.75
						4.75	5.21			
								AS60372		STD
								AS60372010		0.75
								AS60372020		1.00
	8		400,402 Engs. Chevrolet	Contains 3.0MM Oil Ring	104.78	1.60	4.88	AS60373	8 Cyl.	STD
						1.60	4.95	AS60373010		0.13
						3.00	3.81	AS60373020		0.25
								AS60373030		0.75
								AS60373040		0.88
								AS60373050		1.00

										
GENERAL MOTORS										
		8		400, 402 Engs. Chevrolet	104.78	1.50	4.09	AS60374	8 Cyl.	STD
				w/1.5mm Comp & 3.0mm Oil						
						1.50	4.37	AS60374010		0.13
						3.00	3.81	AS60374020		0.75
								AS60374030		1.00
								AS60374040		1.13
								AS60374050		1.63
		8		400, 402 Engs. contains	104.78	1.20	4.09	AS60375	8 Cyl.	STD
				Steel Moly top rings						
						1.20	4.37	AS60375010		0.13
						3.00	3.81	AS60375020		1.50
394cu. in.		8	1959-64	Oldsmobile	104.78	2.00	4.93	AS60376	8 Cyl.	STD
						2.38	4.95	AS60376010		0.50
						4.75	5.00	AS60376020		0.75
								AS60376030		1.00
								AS60376040		1.50
348cu. in.		8	1958-63	Chevrolet	104.78	2.00	4.93	AS60377	8 Cyl.	STD
364cu. in.			1957-61	All Buick		2.00	4.95	AS60377010		0.25
402cu. in.			1970-73	396, 4 Engs. Chevrolet		4.75	5.00	AS60377020		0.50
400cu. in.			1970-77	Chevrolet				AS60377030		0.75
425cu. in.			1965-76	Oldsmobile				AS60377040		1.00
455cu. in.			1968-76	Oldsmobile				AS60377050		1.50
402cu. in.			1958-65	400, 4 Engs. Chevrolet				AS60378		STD
455cu. in.			1974-80	Oldsmobile				AS60378010		1.00
348 cu. in.				GMC - Canada						
400cu. in.										
402cu. in.								AS60378		STD
455cu. in.				GMC				AS60378010		0.25
								AS60378020		0.50
								AS60378030		0.75
								AS60378040		1.00
								AS60378050		1.50
360cu. in.		6	1969-76	GMC	104.78	2.38	4.93	AS60379	6 Cyl.	STD
						2.38	4.52			
						2.38	4.52			
						6.35	5.00			
		8		400, 402 Engs. Chevrolet	104.78	1.50	4.09	AS60380	8 Cyl.	STD
				Napier 2nd ring w/1.5mm						
				Comp & 3.00mm Oil						
						1.50	4.37	AS60380010		0.13
						3.00	3.81	AS60380020		0.88
								AS60380030		1.13
								AS60380040		1.63
		8		400, 402 Engs. contains	104.78	1.20	4.09	AS60381	8 Cyl.	STD
				Steel Moly top rings						
						1.60	4.95	AS60381010		0.13
						4.75	4.75	AS60381020		0.50
								AS60381030		0.63
								AS60381040		0.75
								AS60381050		0.88
								AS60381060		1.00
								AS60381070		1.13
								AS60381080		1.50
		8		400, 402 Engs. w/napier	104.78	1.20	4.09	AS60382	8 Cyl.	STD
				2nd ring						
						1.20	4.32	AS60382010		0.13
						3.00	3.81	AS60382020		0.25
								AS60382030		0.38
								AS60382040		0.63
								AS60382050		0.88
								AS60382060		1.13

										
GENERAL MOTORS										
	8			400, 402 Engs. Chevrolet Napier 2nd ring	104.78	1.60	4.88	AS60383	8 Cyl.	STD
						1.60	4.52	AS60383010		0.13
						4.75	4.75	AS60383020		0.25
								AS60383030		0.50
								AS60383040		0.63
								AS60383050		0.75
								AS60383060		0.88
								AS60383070		1.00
								AS60383080		1.13
								AS60383090		1.50
								AS60383100		1.63
	8			400, 402 Engs. Chevrolet contains Steel Moly top rings Low Tension Oil Ring	104.78	1.20	4.09	AS60384	8 Cyl.	STD
						1.60	4.95	AS60384010		0.13
						4.75	3.81	AS60384020		0.75
								AS60384030		0.88
								AS60384040		1.00
								AS60384050		1.13
								AS60384060		1.50
	8			400, 402 Engs. Chevrolet Napier 2nd ring Low Tension Oil Ring	104.78	1.60	4.88	AS60385	8 Cyl.	STD
						1.60	4.52	AS60385010		0.13
						4.75	3.81	AS60385020		0.75
								AS60385030		0.88
								AS60385040		1.00
								AS60385050		1.13
								AS60385060		1.50
								AS60385070		1.63
	8				104.78	1.60	4.09	AS60386	8 Cyl.	STD
						1.60	4.52	AS60386010		0.13
						4.75	3.94			
429cu. in.	8		1966-67	All Models Cadillac	104.90	1.60	4.93	AS60387	8 Cyl.	STD
						1.60	4.95	AS60387010		0.75
						4.75	4.39			
	8			455 Performance Pontiac	105.44	1.60	4.95	AS60388A	8 Cyl.	STD
						1.60	4.98	AS60388A10		1.63
						4.75	4.62			
455cu. in.	8		1970-76	Pontiac	105.44	2.00	4.95	AS60388B	8 Cyl.	STD
						1.60	4.98	AS60388B10		0.75
						4.75	4.75	AS60388B20		1.00
								AS60389A		STD
								AS60389A10		0.75
								AS60389A20		1.00
								AS60389A30		1.50
400cu. in.	8		1959-66	Buick	106.36	2.00	4.98	AS60389B	8 Cyl.	STD
401cu. in.			1959-66	Buick		2.00	5.00	AS60389B10		0.75
430cu. in.			1967-69	Buick		4.75	5.00	AS60389B20		1.00
								AS60390		STD
								AS60390010		0.75
								AS60390020		1.00

										
GENERAL MOTORS										
454cu. in.		8		Shallow Oil Ring Groove	107.95	2.00	5.05	AS60391	8 Cyl.	STD
454cu. in.			1991-00	GMC, Vin: J,N,B Shallow Oil Ring Groove		2.00	5.08	AS60391010		0.25
						4.75	3.43	AS60391020		0.50
								AS60391030		0.75
								AS60391040		1.00
								AS60391050		1.50
								AS60392		STD
								AS60392010		0.25
								AS60392020		0.50
								AS60392030		0.75
								AS60392040		1.00
								AS60392050		1.50
								AS60393		STD
								AS60393010		0.25
								AS60393020		0.50
								AS60393030		0.75
								AS60393040		1.00
								AS60393050		1.50
427cu. in.		8	1995-98	Chev., GMC Shallow Oil Ring Groove	107.95	2.00	5.05	AS60394	8 Cyl.	STD
						2.00	5.08	AS60394010		0.25
						2.00	5.08	AS60394020		0.50
						4.75	3.43	AS60394030		0.75
								AS60394040		1.00
								AS60394050		1.50
								AS60395		STD
								AS60395010		0.25
								AS60395020		0.50
								AS60395030		0.75
								AS60395040		1.00
								AS60395050		1.50
								AS60396		STD
								AS60396010		0.25
								AS60396020		0.50
								AS60396030		0.75
								AS60396040		1.00
								AS60396050		1.50
		8	2001-07	496 cu. in GMC V-8 Vin: G,K,L,M	107.95	2.00	5.05	AS60397	8 Cyl.	STD
						2.00	5.08	AS60397010		0.25
						4.00	3.81	AS60397020		0.50
								AS60397030		0.75
								AS60397040		1.00
								AS60397050		1.50
								AS60398		STD
								AS60398010		0.50
								AS60398020		0.75
								AS60398030		1.00
								AS60398040		1.50
								AS60399		STD
								AS60399010		0.25
								AS60399020		0.50
								AS60399030		0.75
								AS60399040		1.00
								AS60399050		1.50
		8	1959-66	400, 401 Engs. Buick Low Tension Oil Ring	107.95	2.00	5.05	AS60400	8 Cyl.	STD
			1966-70	427 Chevrolet Low Tension Oil Ring		2.00	5.08	AS60400010		0.75
			1967-69	430 Buick Low Tension Oil Ring		4.75	3.81	AS60400020		1.50
		8		427, 454 Engs. Performance Chevrolet Low Tension Oil Ring	107.95	1.60	5.05	AS60401	8 Cyl.	STD
						1.60	5.08	AS60401010		0.75
						4.75	3.81	AS60401020		0.88
								AS60401030		1.50
								AS60401040		1.63
								AS60401050		3.13

										
GENERAL MOTORS										
		8	1959-66 400, 401 Engs. Buick	107.95	2.00	5.05		AS60402	8 Cyl.	STD
			1966-70 427 Chevrolet		2.00	5.08		AS60402010		0.13
			1967-69 430 Buick		4.75	5.00		AS60402020		0.75
								AS60402030		0.88
								AS60402040		1.00
								AS60402050		1.50
								AS60402060		1.63
		8	1966-75 427, 454 Engs. Performance Chevrolet	107.95	1.60	5.05		AS60403	8 Cyl.	STD
					1.60	5.08		AS60403010		0.13
					4.75	5.00		AS60403020		0.75
								AS60403030		0.88
								AS60403040		1.00
								AS60403050		1.13
								AS60403060		1.50
								AS60403070		1.63
		8		107.95	1.60	5.05		AS60404	8 Cyl.	STD
					1.60	5.08				
					4.75	5.00				
								AS60405		STD
								AS60405010		1.50
		8	427, 454 Engs. Performance Chevrolet contains Steel Moly top rings	107.95	1.09	4.09		AS60406	8 Cyl.	STD
					1.09	4.11		AS60406010		0.88
					3.00	3.86				
304.7 cu. in.		6	1960-75 305A, B, C Engs.; 30 GMC - 4 Ring Piston	107.95	2.38	5.05		AS60407	6 Cyl.	STD
					2.38	5.08				
					2.38	5.08				
					4.75	1.27				
								AS60408		STD
305Ecu. in.		6	1960-72 305, 30 Engs. GMC 3 Ring Piston	107.95	2.38	5.05		AS60409	6 Cyl.	STD
					2.38	5.08				
					4.75	1.27				
427cu. in.		8	Chevrolet	107.95	2.38	5.05		AS60410	8 Cyl.	STD
427cu. in.			1968-94 Chev., GMC		2.00	5.08		AS60410010		1.50
454cu. in.			1970-90 GMC		2.00	5.08				
454cu. in.			1970-81 Chev. 4 Ring Piston		4.75	4.88				
								AS60411		STD
								AS60411010		0.50
								AS60411020		0.75
								AS60411030		1.00
								AS60411040		1.50
								AS60412		STD
								AS60412010		0.50
								AS60412020		0.75
								AS60412030		1.00
								AS60412040		1.50

										
GENERAL MOTORS										
427cu. in.		8	1966-69	Chevrolet	107.95	2.00	5.05	AS60413	8 Cyl.	STD
454cu. in.			1970-76	Chevrolet		2.00	5.08	AS60413010		0.25
427cu. in.			1971-90	Chevrolet		4.75	4.88	AS60413020		0.50
454cu. in.				Chevrolet 365 PHP				AS60413030		0.75
454cu. in.				GMC Deep Oil Ring Groove				AS60413040		1.00
								AS60413050		1.50
								AS60413060		2.00
								AS60413070		2.50
								AS60414		STD
								AS60414010		0.25
								AS60414020		0.50
								AS60414030		0.75
								AS60414040		1.00
								AS60414050		1.50
								AS60415		STD
								AS60415010		0.25
								AS60415020		0.50
								AS60415030		0.75
								AS60415040		1.00
								AS60415050		1.50
								AS60415060		1.75
								AS60415070		2.00
								AS60415080		2.50
		8		427, 454 Engs. Performance	107.95	1.50	4.09	AS60416	8 Cyl.	STD
				Chevrolet w/Napier 2nd ring		1.50	4.37	AS60416010		0.13
						3.00	3.86	AS60416020		0.88
		8		427, 454 Engs. Performance	107.95	1.60	5.05	AS60417	8 Cyl.	STD
				Chevrolet w/Napier ductile iron 2nd ring		1.60	4.62	AS60417010		0.13
						4.75	5.00	AS60417020		0.75
								AS60417030		0.88
								AS60417040		1.00
								AS60417050		1.50
								AS60417060		1.63
								AS60417070		3.13
		8		427, 454 Engs. Performance	107.95	1.20	4.09	AS60418	8 Cyl.	STD
				Chevrolet contains Steel Moly top rings		1.60	5.08	AS60418010		0.88
						4.75	5.00	AS60418020		1.63
		8		427, 454 Engs. Performance	107.95	1.50	4.09	AS60419	8 Cyl.	STD
				Chevrolet w/1.5mm Comp & 3.0mm Oil		1.50	4.37	AS60419010		0.75
						3.00	3.86			
		8			107.95	1.60	4.75	AS60420	8 Cyl.	STD
						1.60	4.62	AS60420010		1.63
						4.75	3.81			
472cu. in.		8	1968-74	Cadillac	109.22	2.00	5.13	AS60421	8 Cyl.	STD
500cu. in.			1970-76	Cadillac		2.00	5.16	AS60421010		0.50
						4.75	1.27	AS60421020		0.75
								AS60421030		1.00
								AS60422		STD
								AS60422010		0.50
								AS60422020		0.75

										
GENERAL MOTORS										
409cu. in.		8	1962-65 Chevrolet	109.54	2.00	5.13		AS60423	8 Cyl.	STD
425cu. in.			1963-66 All Buick		2.00	5.16		AS60423010		0.75
455cu. in.			1970-76 Buick		4.75	1.27		AS60423020		1.00
409cu. in.			1962-65 Chevrolet					AS60423030		1.50
409cu. in.			GMC					AS60424		STD
								AS60424010		0.75
								AS60425		STD
								AS60425010		0.75
								AS60425020		1.00
								AS60425030		1.50
403cu. in.		8	1977-79 Buick, Olds., Pontiac	110.52	2.00	5.16		AS60426	8 Cyl.	STD
403cu. in.			Oldsmobile		2.00	5.18		AS60426010		0.25
					4.75	1.27		AS60426020		0.75
								AS60426030		1.00
								AS60427		STD
								AS60427010		0.25
								AS60427020		0.50
								AS60427030		0.75
								AS60427040		1.00
								AS60427050		1.50
								AS604228		STD
								AS604228010		0.50
								AS604228020		0.75
								AS604228030		1.00
								AS604228040		1.50
		8	502 Performance	113.44	1.60	5.23		AS60429	8 Cyl.	STD
					1.60	5.26		AS60429010		0.10
					4.75	5.21				
502 cu. in.		8	1988-95 H.O.	113.47	2.00	5.23		AS60430	8 Cyl.	STD
					1.50	4.72		AS60430010		0.13
					4.00	3.30		AS60430020		0.75
								AS60430030		1.50
525 cu. in.		6	GMC	114.30	3.18	4.83		AS60431	6 Cyl.	STD
					3.18	4.85				
					3.18	4.85				
					4.75	5.08				
		8	502 Performance	114.30	1.60	5.36		AS60432	8 Cyl.	STD
					1.60	5.38		AS60432010		0.13
					4.75	5.08		AS60432020		0.75
								AS60432030		0.88
								AS60432040		1.50
								AS60432050		1.63
								AS60432060		2.50
								AS60432070		2.63
		8	502 Performance Low Tension Oil Ring	114.30	1.60	5.36		AS60433	8 Cyl.	STD
					1.60	5.38		AS60433010		0.13
					4.75	3.94		AS60433020		0.75
								AS60433030		0.88
								AS60433040		1.50
								AS60433050		1.63
								AS60433060		2.50
								AS60433070		2.63
		8	540 Performance	114.30	1.50	4.09		AS60434	8 Cyl.	STD
					1.50	4.37				
					3.00	3.86				

										
GENERAL MOTORS										
	8			502 Performance w/Napier 2nd ring	114.30	1.50	4.09	AS60435	8 Cyl.	STD
						1.50	4.37	AS60435010		0.13
						3.00	3.86	AS60435020		0.88
	8			502 Performance contains Steel Moly top rings	114.30	1.09	4.09	AS60436	8 Cyl.	STD
						1.09	4.32	AS60436010		0.13
						3.00	3.86	AS60436020		0.88
								AS60436030		2.63
								AS60436040		3.25
	8			502 Performance Napier ductile iron 2nd ring	114.30	1.60	5.36	AS60437	8 Cyl.	STD
						1.60	4.93	AS60437010		0.13
						4.75	5.08	AS60437020		0.88
								AS60437030		1.13
								AS60437040		1.63
	8				114.30	1.60	4.09	AS60438	8 Cyl.	STD
						1.60	4.93	AS60438010		0.13
						4.75	4.01			
	8			502 Performance contains Steel Moly top rings 1/16" Napier ductile iron 2nd ring	114.30	1.09	4.09	AS60438	8 Cyl.	STD
						1.60	4.93	AS60438010		0.13
						3.00	3.86	AS60438020		0.88
	8			502 Performance Napier ductile iron 2nd ring Low Tension Oil Ring	114.30	1.60	5.36	AS60439	8 Cyl.	STD
						1.60	4.93	AS60439010		0.13
						4.75	3.94	AS60439020		0.88
								AS60439030		1.63
GRAY										
226 cu. in.	6				84.14	2.38	3.99	AS6101	6 Cyl.	STD
						2.38	4.01	AS6101010		1.00
						4.00	4.39			
						4.00	4.01			
226 cu. in.	6				84.14	2.00	3.99	AS6102	6 Cyl.	STD
						2.38	4.01			
						2.38	4.01			
						6.00	4.39			
	6			Express Six 244, Lugger Six 244, 115, 120, 136	87.31	2.38	3.61	AS6103	6 Cyl.	STD
						2.38	4.14	AS6103010		0.50
						2.38	4.14	AS6103020		1.00
						6.00	4.50	AS6103030		1.50
								AS6104		STD

										
GRAY										
304 cu. in.		8			95.25	2.00	4.47		AS6105 8 Cyl.	STD
						2.00	4.50		AS6105010	0.25
						4.75	1.27		AS6105020	0.50
									AS6105030	0.75
									AS6105040	1.00
									AS6105050	1.50
									AS6105060	2.00
									AS6105070	2.50
									AS6106	STD
									AS6106010	0.25
									AS6106020	0.50
									AS6106030	0.75
									AS6106040	1.00
									AS6106050	1.50
									AS6107	STD
									AS6107010	0.25
									AS6107020	0.50
									AS6107030	0.75
									AS6107040	1.00
									AS6107050	1.50
									AS6107060	2.00
									AS6107070	2.50
258 cu. in.		6		232, Engs.	95.25	2.00	4.47		AS6108 6 Cyl.	STD
						2.00	4.50		AS6108010	0.25
						4.75	1.27		AS6108020	0.50
									AS6108030	0.75
									AS6108040	1.00
									AS6108050	1.50
									AS6109	STD
									AS6109010	0.25
									AS6109020	0.50
									AS6109030	0.75
									AS6109040	1.00
									AS6109050	1.50
									AS6110	STD
									AS6110010	0.25
									AS6110020	0.50
									AS6110030	0.75
									AS6110040	1.00
									AS6110050	1.50
360 cu. in.		8			103.63	2.00	4.88		AS6111 8 Cyl.	STD
						2.00	4.90		AS6111010	0.50
						4.75	4.75		AS6111020	0.75
									AS6111030	1.00
									AS6111040	1.50
									AS6112	STD
									AS6113	STD
									AS6113010	0.50
									AS6113020	0.75
									AS6113030	1.00
									AS6113040	1.50
455 cu. in.		8			109.54	2.00	5.13		AS6114 8 Cyl.	STD
						2.00	5.16		AS6114010	0.75
						4.75	1.27		AS6114020	1.00
									AS6114030	1.50
									AS6115	STD
									AS6115010	0.75
									AS6116	STD
									AS6116010	0.75
									AS6116020	1.00
									AS6116030	1.50

										
HALL SCOTT										
	6		147		101.60	3.18	4.39	AS6201	6 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						4.75	4.88			
	6		135 5 Ring Piston		114.30	3.18	4.11	AS6202	6 Cyl.	STD
						3.18	4.85			
						3.18	4.85			
						4.75	5.08			
						4.75	4.85			
								AS6203		STD
HARLEY-DAVIDSON										
55 cu. in.			1950-65 45, Engs. Side Valve G, GE, K, KH		69.72	1.60	3.25	AS6301	2 Cyl.	STD
						1.60	3.28	AS6301010		0.25
						4.75	1.27	AS6301020		0.50
								AS6301030		0.75
			1937-55 45 Side Valve D Ser. G, GA, W Ser.		69.72	2.38	3.25	AS6302	2 Cyl.	STD
						2.38	3.28	AS6302010		0.25
						3.18	3.28	AS6302020		0.50
								AS6302030		0.75
								AS6302040		1.00
								AS6302050		1.25
								AS6302060		1.75
			1986-OnXL883		76.20	1.50	3.61	AS6303	1 Cyl.	STD
						1.50	3.63	AS6303010		0.13
						2.80	3.18	AS6303020		0.25
	900		1957-71 900cc XL, XLCH, XLH Sportster OHV		76.20	1.60	3.45	AS6304	2 Cyl.	STD
						1.60	3.48			
						4.75	1.27			
			Models using Wiseco Piston, 3 3/16" Bore 3 Ring Piston		80.96	1.60	3.58	AS6305	1 Cyl.	STD
						1.60	3.61	AS6305010		0.25
						4.00	4.39	AS6305020		0.50
								AS6305030		0.75
								AS6305040		1.00
	1000		1983-85 XL, XR		80.96	1.60	3.58	AS6306	2 Cyl.	STD
						1.60	3.61	AS6306010		0.25
						4.00	3.81	AS6306020		0.50
								AS6306030		0.75
								AS6306040		1.00
								AS6306050		1.50
								AS6306060		1.75
								AS6307		STD
								AS6307010		0.25
								AS6307020		0.50
								AS6307030		0.75
								AS6307040		1.00
								AS6307050		1.50
								AS6307060		1.75
			Models using Axtell Cyl. 3 3/16" Bore 2 Ring Piston		80.96	1.60	3.58	AS6308	1 Cyl.	STD
						4.00	4.39			

										
HARLEY-DAVIDSON										
				Models using Axtell Cyl.3 3/16" Bore 3 Ring Piston	80.96	1.60	3.58	AS6309	1 Cyl.	STD
						1.60	3.61	AS6309010		0.50
						4.00	4.39	AS6309020		0.75
								AS6309030		1.00
	1000		1972-85	, XL, XLCH, XLH Sportster OHV	80.96	1.60	3.58	AS6310	2 Cyl.	STD
						1.60	3.61	AS6310010		0.25
						4.75	4.39	AS6310020		0.50
								AS6310030		0.75
								AS6310040		1.00
								AS6310050		1.25
								AS6310060		1.50
								AS6310070		1.75
								AS6311		STD
								AS6311010		0.25
								AS6311020		0.50
								AS6311030		0.75
								AS6311040		1.00
								AS6311050		1.25
								AS6311060		1.50
								AS6311070		1.75
				Models using Axtell Cyl.3 1/4" Bore 2 Ring Piston	82.55	1.60	3.25	AS6312	1 Cyl.	STD
						4.00	4.39			
				Models using Axtell Cyl.3 1/4" Bore 3 Ring Piston	82.55	1.60	3.25	AS6313	1 Cyl.	STD
						1.60	3.28			
						4.00	3.94			
61 cu. in.			1948-52	Knuckle Head E, EL, OHV	84.14	2.38	3.99	AS6314	1 Cyl.	STD
						2.38	4.01	AS6314010		0.75
						4.75	1.27			
				Models using Axtell Cyl. 3 5/16" Bore-2 Ring	84.14	1.60	3.43	AS6315	1 Cyl.	STD
						4.00	4.39			
				Models using Axtell Cyl. 3 5/16" Bore-3 Ring	84.14	1.60	3.43	AS6316	1 Cyl.	STD
						1.60	3.45	AS6316010		1.00
						4.00	4.39			
61 cu. in.			1948-52	Knuckle Head	84.14	1.60	3.43	AS6317	2 Cyl.	STD
						1.60	3.45			
						4.75	1.27			
	1200		1955-80	Electra Glide FL, FLH, FXE OHV All Cast Iron Rings	87.31	1.60	3.91	AS6318	2 Cyl.	STD
						1.60	3.94	AS6318010		0.25
						4.75	4.14	AS6318020		0.50
								AS6318030		0.75
								AS6318040		1.00
								AS6318050		1.25
								AS6318060		1.50
								AS6318070		1.75
								AS6318080		2.00
				Models using Wiseco Piston, 3 7/16" Bore 3 Ring Piston	87.31	1.60	3.91	AS6319	1 Cyl.	STD
						1.60	3.94	AS6319010		0.25
						4.00	4.50	AS6319020		0.50

										
HARLEY-DAVIDSON										
	1200		1948-64	74, F, FL, FLE	87.31	2.38	3.61	AS6320	2 Cyl.	STD
						2.38	4.14	AS6320010		0.50
						4.75	4.14	AS6320020		1.00
								AS6320030		1.50
								AS6321		STD
	1200		1955-80	Electra Glide FL, FLH, FXE OHV	87.31	1.60	3.91	AS6322	2 Cyl.	STD
74 cu. in.	1200		1948-78	FL, FLH, FX, FXE OHV Pan/Shovel Head		1.60	3.94	AS6322010		0.25
						4.75	4.75	AS6322020		0.50
								AS6322030		0.75
								AS6322040		1.00
								AS6322050		1.25
								AS6322060		1.50
								AS6322070		1.75
								AS6322080		2.00
								AS6323		STD
								AS6323010		0.13
								AS6323020		0.25
								AS6323030		0.50
								AS6323040		0.75
								AS6323050		1.00
								AS6323060		1.25
								AS6323070		1.50
								AS6323080		1.75
								AS6323090		2.00
								AS6323100		2.25
				Models using Wiseco Piston 3.498 Bore 3 Ring Piston	88.84	1.60	3.96	AS6324	1 Cyl.	STD
						1.60	3.99	AS6324010		0.13
						4.00	4.39	AS6324020		0.25
								AS6324030		0.50
								AS6324040		0.75
								AS6324050		1.00
	1200		2004-On		88.84	1.20	3.61	AS6325	1 Cyl.	STD
						1.50	4.22			
						2.50	3.86			
80cu. in.	1340		1978-83	FL, FX Shovel Head	88.84	1.60	3.96	AS6326	2 Cyl.	STD
						1.60	3.99	AS6326010		0.25
						4.75	1.27	AS6326020		0.50
								AS6326030		0.75
								AS6326040		1.00
								AS6326050		1.25
								AS6326060		1.50
								AS6326070		1.75
								AS6327		STD
								AS6327010		0.13
								AS6327020		0.25
								AS6327030		0.50
								AS6327040		0.75
								AS6327050		1.00
80cu. in.	1340		1983-On	Evolution	88.84	1.60	3.96	AS6328	2 Cyl.	STD
	1200		1983-On	XL & Late Shovel Head Sportster		1.60	3.99	AS6328010		0.13
						4.00	4.62	AS6328020		0.25
								AS6328030		0.50
								AS6328040		0.75
								AS6328050		1.00
								AS6329		STD
								AS6329010		0.13
								AS6329020		0.25
								AS6329030		0.50
								AS6329040		0.75
								AS6329050		1.00

										
HARLEY-DAVIDSON										
				Models using Axtell Cyl. 3 1/2" Bore 3 Ring Piston	88.90	1.60	3.63	AS6330	1 Cyl.	STD
						1.60	3.66			
						4.00	4.11			
				Models using Axtell Cyl. 3 9/16" Bore 3 Ring Piston	90.49	1.60	3.66	AS6331	1 Cyl.	STD
						1.60	3.68			
						4.00	4.24			
				Stroker Kit w/1/16 Comp. Rings	92.08	1.60	4.32	AS6332	1 Cyl.	STD
						1.60	4.34	AS6332010		0.50
						4.75	1.27			
				Stroker Kit w/5/64 Comp. Rings	92.08	2.00	4.32	AS6333	1 Cyl.	STD
						2.00	4.34	AS6333010		0.75
						4.75	1.27	AS6333020		1.00
				Models using Axtell Cyl. 3 5/8" Bore 3 Ring Piston	92.08	1.60	4.32	AS6334	1 Cyl.	STD
						1.60	4.34	AS6334010		0.13
						4.00	4.62			
1584			2007-On	JED 96cu.in.	95.25	1.50	4.47	AS6335	2 Cyl.	STD
						1.50	4.11	AS6335010		0.13
						2.50	3.81	AS6335020		0.25
1450			1998-On	Twin Cam 88	95.25	1.50	4.47	AS6336	2 Cyl.	STD
						1.50	4.11	AS6336010		0.13
						3.00	3.81	AS6336020		0.25
								AS6336030		0.50
								AS6336040		0.75
				Models using Custom Chrome Piston w/5/32 100 Big Twin	96.84	1.60	4.55	AS6337	1 Cyl.	STD
						1.60	4.57	AS6337010		0.13
						4.00	4.62	AS6337020		0.25
								AS6337030		0.50
								AS6337040		0.75
				Models using Silvolite Piston w/3/16" oil grv.100 Big Twin	96.84	1.60	4.55	AS6338	1 Cyl.	STD
						1.60	4.57	AS6338010		0.25
						4.75	4.62	AS6338020		0.50
								AS6338030		0.75
1690			1998-On	Eng. Twin Cam 88 Big Bore Kit	98.43	1.50	4.62	AS6339	2 Cyl.	STD
						1.50	3.99	AS6010339		0.13
						2.50	3.86	AS6339020		0.25
								AS6339030		0.50
								AS6339040		0.75
								AS6339050		1.00
				Models using KB Piston	98.43	1.60	4.62	AS6340	2 Cyl.	STD
						1.60	4.65	AS6340010		0.25
						4.75	4.88	AS6340020		0.75
				Model using Custom Chrome Piston Twin Cam 88	101.60	1.50	4.78	AS6341	1 Cyl.	STD
						1.50	4.37	AS6341010		0.13
						2.50	3.81	AS6341020		0.25
								AS6341030		0.50
1800			2007-14	110cu.in. Twin Cam w/CVO models	101.60	1.20	3.61	AS6341	2 Cyl.	STD
						1.20	4.37	AS6341010		0.13
						2.50	3.81	AS6341020		0.25
								AS6341030		0.50

										
HARLEY-DAVIDSON										
				2005-On113 cu. in also; KB pistons	103.12	1.50	4.80	AS6342	1 Cyl.	STD
						1.50	4.37	AS6342010		0.13
						2.50	3.81	AS6342020		0.25
				Model using United Engine Piston Twin Cam 88 107cu.in Twin Cam 96 117cu.in	104.78	1.50	4.09	AS6343	2 Cyl.	STD
						1.50	4.37	AS6343010		0.13
						3.00	3.81	AS6343020		0.75
				V-Twin big bore Model using Mid West Pistons	107.95	1.50	4.09	AS6344	2 Cyl.	STD
						1.50	4.37	AS6344010		0.13
						3.00	3.86	AS6344020		0.25
								AS6344030		0.50
								AS6344040		0.75
HENRY-J										
		4	1951-54	All Models	79.38	2.38	3.76	AS6401	4 Cyl.	STD
						2.38	3.78	AS6401010		0.50
						4.75	1.27	AS6401020		0.75
								AS6401030		1.00
								AS6401040		1.50
								AS6401050		2.00
								AS6402		STD
								AS6402010		0.50
								AS6402020		0.75
								AS6402030		1.00
								AS6402040		1.50
HERCULES										
		4		ZXB	66.68	2.38	3.35	AS6501	4 Cyl.	STD
						2.38	3.15			
						4.75	1.27			
								AS6502		STD
								AS6502010		0.50
								AS6502020		0.75
								AS6502030		1.00
		4		IXF, IXF3	69.85	3.18	3.25	AS6503	4 Cyl.	STD
						3.18	3.23			
						4.75	3.81			
		4		IXA, IXA3, IXA5 AL Piston	76.20	3.18	3.45	AS6504	4 Cyl.	STD
						3.18	3.48			
						4.75	1.27			
								AS6505		STD
								AS6505010		1.50
		6		JX, QXB, QXB2, QXB3, QXB5, QXB5C QXB	82.55	3.18	3.89	AS6506	6 Cyl.	STD
						3.18	3.78	AS6506010		0.50
						3.18	3.78	AS6506020		1.50
						4.75	1.27			
								AS6507		STD
IXB, IXBC, IXB3, IXB5		4			82.55	3.18	3.89	AS6508	4 Cyl.	STD
						3.18	3.78	AS6508010		0.50
						4.75	1.27	AS6508020		1.50
								AS6509		STD

										
HERCULES										
	4			IXB, IXB3	82.55	2.38	3.89	AS6510	4 Cyl.	STD
						3.18	3.78			
						4.75	1.27			
								AS6511		STD
				NXB	82.55	3.18	3.89	AS6512	2 Cyl.	STD
						3.18	3.78			
						4.75	1.27			
								AS6513		STD
	6			JXA, JXAM, OXC, QXC3, QXC5, QXCM	85.73	3.18	4.04	AS6514	6 Cyl.	STD
						3.18	3.89			
						3.18	3.89			
						4.75	1.27			
	6			QXD, QXLD, QXLDM Marine	87.31	2.38	4.11	AS6515	6 Cyl.	STD
						3.18	3.94			
						4.75	1.27			
	6			QXD5MM, QXLD, QXLD3, QXLD5, WQXD5MC	87.31	2.38	4.11	AS6516	6 Cyl.	STD
						2.38	4.14			
						4.75	1.27			
	6			QXD, QXD3, QXD5, QXLD	87.31	2.38	4.11	AS6517	6 Cyl.	STD
						3.18	3.94			
						4.75	1.27			
						4.75	4.14			
				GO173	88.90	2.38	4.19	AS6518	1 Cyl.	STD
				GO260		3.18	3.66			
				GO130 3 Cyl.		4.75	1.27			
						4.75	3.99			
								AS6519		STD
JXA2, JXA4E, JXE, JXE3, JXG, WXA2	6				88.90	3.18	3.96	AS6520	6 Cyl.	STD
						3.18	3.66			
						3.18	3.66			
						4.75	4.24			
	6			JXB, JXBM, P4	92.08	3.18	3.84	AS6521	6 Cyl.	STD
						3.18	3.86			
						3.18	3.86			
						4.75	1.27			
	6			JXC, JXCF, JXCM, JXCT, WXB, WXE	95.25	3.18	3.91	AS6522	6 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	4.45			

										
HERCULES										
		6		D298, D298ERT, D298H, D300, D300HT, D3000, DD298	95.25	3.00	4.17	AS6523	6 Cyl.	STD
						2.38	4.50			
						2.38	4.50			
						4.75	2.57			
						4.75	4.19			
		6		G2000, G3000 use 2/3 set of 6 Cyl. for 4 Cyl.	95.25	2.38	4.47	AS6524	6 Cyl.	STD
						3.18	3.94			
						4.75	1.27			
				G149, G150D, GO130H, GO149 3 Cyl.	95.25	2.38	4.47	AS6525	1 Cyl.	STD
				DD198, G198, G200D, GO198		3.18	3.94			
				GO298, JXLC		4.75	1.27			
						4.75	4.19			
		6		D298ERT Zollner Piston #1536	95.25	3.00	4.17	AS6526	6 Cyl.	STD
						3.00	4.19			
						2.38	4.50			
						4.75	1.27			
		4		CU, CU2	95.25	4.75	3.91	AS6527	4 Cyl.	STD
						4.75	3.94			
						4.75	3.94			
						4.75	1.27			
		4		JX4C, OOB	95.25	3.18	4.17	AS6528	4 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	1.27			
		4		D212	98.43	3.00	4.29	AS6529	4 Cyl.	STD
						2.38	3.99			
						2.38	3.99			
						4.75	5.56			
						4.75	4.32			
141 cu. in.		4		G1400	98.43	2.38	4.62	AS6530	4 Cyl.	STD
						2.38	3.99	AS6530010		0.25
						4.75	4.88	AS6530020		0.50
								AS6530030		0.75
								AS6530040		1.00
								AS6530050		1.50
								AS6531		STD
								AS6531010		0.25
								AS6531020		0.50
								AS6531030		0.75
								AS6531040		1.00
								AS6531050		1.50
		6		JXD, JXDF, JXDT, JXDTR, WXC, WXG, WXH, WXHC, WXL	101.60	3.18	4.39	AS6532	6 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						4.75	4.88			
		6		G339, G3400, JXD, JXLD, JXLDF	101.60	2.50	4.78	AS6533	6 Cyl.	STD
						3.18	4.11			
						4.75	4.88			
						4.75	4.37			
163 cu. in.		4		G1404, G1600	101.60	2.00	4.78	AS6534	4 Cyl.	STD
						2.00	4.80			
						4.75	4.88			

										
HERCULES										
	6			G3400, JXDM	101.60	2.38	4.78	AS6535	6 Cyl.	STD
				G2300, JXDM Use 2/3 set of 6 Cyl. for 4 Cyl.		3.18	4.11	AS6535010		1.00
						4.75	4.88			
				D1700 3 Cyl., D2300 4 Cyl., D3400 6 Cyl. Diesel	101.60	3.00	4.78	AS6536	1 Cyl.	STD
						2.38	4.80	AS6536010		0.50
						4.75	4.62	AS6536020		1.00
				G1700, GO169	101.60	2.38	4.78	AS6537	1 Cyl.	STD
				GO226, JX4L-D3		3.18	4.11			
				GO3-169, GO4-226, GO6-339, JXDT, JX4D 3 Cyl., 4 Cyl. & 6 Cyl.		4.75	4.88			
						4.75	4.37			
				D1700, DD169, DD169H	101.60	3.00	4.78	AS6538	1 Cyl.	STD
				D2300, DD226, DD226H		2.38	4.80			
				D339, D339H, D3400, DD339		2.38	4.80			
						4.75	2.64			
						4.75	4.37			
	4			JX4D, OHC, OOC 4 Ring Piston	101.60	3.18	4.39	AS6539	4 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						4.75	4.88			
	6			RXB, YXC2	114.30	3.18	4.83	AS6540	6 Cyl.	STD
						3.18	4.85			
						3.18	4.85			
						4.75	5.08			
	4			L, LC, LP, MU3	114.30	4.75	4.83	AS6541	4 Cyl.	STD
						4.75	4.85			
						4.75	4.85			
						4.75	5.08			
								AS6542		STD
HILLMAN										
	1600	4		1973-76 Avenger	87.31	2.00	4.11	AS6601	4 Cyl.	STD
						2.00	4.14			
						4.00	4.50			
								AS6602		STD
260 cu. in.	8			1966-67 Sunbeam	96.52	2.00	3.71	AS6603	8 Cyl.	STD
						2.25	4.24	AS6603010		0.75
						4.75	4.62	AS6603020		1.00
								AS6603030		1.50
								AS6604		STD
								AS6604010		0.75
								AS6604020		1.00
								AS6604030		1.50
								AS6605		STD
								AS6605010		0.75
								AS6605020		1.00
								AS6605030		1.50

										
HOLDEN										
	1598	4	1981-82	Camira	80.00	1.50	3.18	AS6701	4 Cyl.	STD
						1.75	3.71	AS6701010		0.50
						4.00	3.81	AS6701020		1.00
								AS6702		STD
								AS6702010		0.50
								AS6702020		1.00
								AS6702030		1.50
	2962	6		VL Commodore, Nissan Australia, RD30E Turbo	86.00	1.50	3.86	AS6703	6 Cyl.	STD
						1.50	3.78	AS6703010		0.25
						4.00	3.43	AS6703020		0.50
								AS6703030		0.75
								AS6703040		1.00
202cu. in.		6	1995-On	Australian Race	92.08	1.60	4.32	AS6704	6 Cyl.	STD
						1.60	4.34	AS6704010		0.50
						4.75	4.62	AS6704020		0.75
								AS6704030		0.88
								AS6704040		1.00
								AS6704050		1.13
								AS6704060		1.63
253cu. in.		8	1997-On	Commodore Cup Australian Race	92.08	1.60	4.32	AS6705	8 Cyl.	STD
						1.60	4.34	AS6705010		0.50
						4.75	4.62	AS6705020		0.75
								AS6705030		0.88
								AS6705040		1.00
								AS6705050		1.13
								AS6705060		1.63
		6	1995-On	202Cu. in. L6 Australian Race w/metric grvs.	92.13	1.50	4.04	AS6706	6 Cyl.	STD
						1.50	4.06	AS6706010		0.75
						4.00	3.30	AS6706020		1.00
								AS6706030		1.50
253cu. in.		8	1995-On	V8 Australian Race w/metric grvs.	92.13	1.50	4.04	AS6707	8 Cyl.	STD
						1.50	4.06	AS6707010		0.75
						4.00	3.30	AS6707020		1.00
								AS6707030		1.50
		6	1966-70	186	92.08	2.00	4.32	AS6708	6 Cyl.	STD
						2.00	4.34	AS6708010		0.50
						4.75	1.27	AS6708020		0.75
								AS6708030		1.00
								AS6708040		1.50
								AS6709		STD
								AS6709010		0.50
								AS6709020		0.75
								AS6709030		1.00
								AS6710		STD
								AS6710010		0.75
								AS6710020		1.00
								AS6710030		1.50
		8	1999-05	Commodore Australian Race w/metric grvs.	99.00	1.50	3.66	AS6711	8 Cyl.	STD
						1.50	4.01	AS6711010		0.25
						3.00	3.81	AS6711020		0.50
								AS6711030		0.75
								AS6711040		0.13
		8		RACE 299 CU. IN.	101.60	1.50	4.09	AS6712	8 Cyl.	STD
				RACE 305 CU. IN.		1.50	4.37	AS6712010		0.50
						4.00	3.48	AS6712020		0.75
								AS6712030		1.00
								AS6712040		1.50

										
HONDA										
EB1	1169	4	1972-73	EB1 Civic	70.00	1.50	3.25	AS6801	4 Cyl.	STD
						1.50	2.95	AS6801010		0.25
						2.80	1.14	AS6801020		0.50
								AS6801030		0.75
EB2	1200	4	1972-78	Civic	72.00	1.50	2.82	AS6802	4 Cyl.	STD
	1237					1.50	3.40	AS6802010		0.25
	1250					2.80	1.14	AS6802020		0.50
								AS6802030		0.75
								AS6802040		1.00
								AS6802050		1.50
								AS6803		STD
								AS6803010		0.25
								AS6803020		0.50
								AS6803030		0.75
								AS6803040		1.00
								AS6803050		1.50
EB-3, EE, EJ1, EN1	1237	4	1978-81	EB-3, EE Civic	72.00	1.50	2.82	AS6804	4 Cyl.	STD
	1335		1980-82	EJ1, EN1 Civic, Civic DX		1.50	3.40	AS6804010		0.25
						4.00	3.30	AS6804020		0.50
								AS6804030		0.75
								AS6804040		1.00
								AS6804050		1.50
								AS6805		STD
								AS6805010		0.25
								AS6805020		0.50
								AS6805030		0.75
								AS6805040		1.00
								AS6805050		1.50
	1335	4	1982-83	EJZ Civic	72.00	1.00	2.92	AS6806	4 Cyl.	STD
						1.20	3.10	AS6806010		0.50
						2.80	1.14	AS6806020		0.75
								AS6806030		1.00
								AS6806040		1.50
LDA-MF3 , L15A1	1339	4	2003-05	LDA-MF3 SOHC Civic Hybrid w/VTECH	73.00	1.00	2.92	AS6807	4 Cyl.	STD
	1497		2007-13	L15A1 SOHC		1.20	3.12	AS6807010		0.50
						2.00	2.54	AS6807020		0.75
								AS6807030		1.00
LDA-MF3	1339	4	2006-13	LDA-MF3 SOHC Gas/Electric Civic Hybrid, Insight w/1.50mm oil grv.	73.00	1.00	2.44	AS6808	4 Cyl.	STD
						1.00	2.46			
						1.50	2.34			
GX240K1				GX240K1 8HP	73.00	2.00	3.10	AS6809	1 Cyl.	STD
						2.00	3.43	AS6809010		0.25
						2.80	3.18	AS6809020		0.50
								AS6809030		0.75
D15A2, EJ2, EW1 CRX	1488	4	1985-91	D15A2, EJ2, EW1 CRX, HF	74.00	1.00	2.92	AS6810	4 Cyl.	STD
						1.20	2.97	AS6810010		0.50
						2.80	3.18	AS6810020		0.75
								AS6810030		1.00
D13A2, EV1	1342	4		D13A2, EV1 2 Ring Piston	74.00	1.20	2.92	AS6811	4 Cyl.	STD
						2.80	1.14	AS6811010		0.50
								AS6811020		0.75
								AS6811030		1.00

										
HONDA										
D15A3, EF, EM1	1488	4	1976-78	D15A3, EF Civic CVCC ED, EM1	74.00	1.50	3.20		AS6812	4 Cyl. STD
			1975-88	EF1, Eord		1.50	3.45		AS6812010	0.25
						4.00	3.30		AS6812020	0.50
									AS6812030	0.75
									AS6812040	1.00
									AS6812050	1.50
									AS6813	STD
									AS6813010	0.25
									AS6813020	0.50
									AS6813030	0.75
									AS6813040	1.00
									AS6813050	1.50
									AS6814	STD
									AS6814010	0.50
									AS6814020	0.75
									AS6814030	1.00
									AS6814040	1.50
EC	1488	4		EC	74.00	1.50	3.20		AS6815	4 Cyl. STD
						1.50	3.45		AS6815010	0.25
						2.80	1.14		AS6815020	0.50
									AS6815030	0.75
									AS6815040	1.00
									AS6816	STD
									AS6816010	0.25
									AS6816020	0.50
									AS6816030	0.75
									AS6816040	1.00
D15A2, EM1	1488	4	1983-87	D15A2, EM1, Exc. HF, EW1	74.00	1.20	2.92		AS6817	4 Cyl. STD
						1.20	2.97		AS6817010	0.25
						2.80	2.79		AS6817020	0.50
									AS6817030	0.75
									AS6817040	1.00
	1600	4		KA200 Civic	75.00	1.20	2.92		AS6818	4 Cyl. STD
						1.50	3.23		AS6818010	0.50
						4.00	3.43		AS6818020	0.75
									AS6818030	1.00
									AS6818040	0.50
D16A6, D16A7, D16Z6, D15B1, D15B2, D15B7, D15B8	1493	4	1988-95	D15B1, D15B2 16 Valve D15B7, D15B8 Engs.	75.00	1.20	2.92		AS6819	4 Cyl. STD
	1590		1988-95	D16A6, D16A7, D16Z6		1.50	3.23		AS6819010	0.25
						2.80	3.30		AS6819020	0.50
									AS6819030	0.75
									AS6819040	1.00
									AS6819050	1.50
D16Y7, D16Y8, D16B5, D15B6, D15Z1	1493	4	1996-98	D15B6, D15Z1 8 Valve	75.00	1.00	2.92		AS6820	4 Cyl. STD
	1590		1988-95	D16Y5, D16Y7, D16Y8		1.20	2.97		AS6820010	0.25
						2.80	3.30		AS6820020	0.50
									AS6820030	0.75
									AS6820040	1.00
D15B8, D15Z1		4	1992-96	D15B8, D15Z1	75.00	1.20	2.92		AS6821	4 Cyl. STD
						1.50	3.23		AS6821010	0.50
						3.00	3.18		AS6821020	0.75
									AS6821030	1.00
D16Y8	1590	4	1999-On	D16Y8 SOHC V-TEC w/ shallow oil groove	75.00	1.00	2.92		AS6822	4 Cyl. STD
						1.20	2.97		AS6822010	0.50
						2.80	2.79		AS6822020	0.75
									AS6822030	1.00

										
HONDA										
D17A1, D17A2, D17A6	1668	4	2001-05	D17A1, D17A2/6, SOHC, VTEC Civic DX, EX, HX L4	75.00	1.00	2.92	AS6823	4 Cyl.	STD
						1.20	2.97	AS6823010		0.25
						2.00	2.67	AS6823020		0.50
								AS6823030		0.75
								AS6823040		1.00
D16A	1590	4			75.00	1.20	2.92	AS6824	4 Cyl.	STD
						1.50	3.23	AS6824010		0.25
						2.80	3.30	AS6824020		0.50
								AS6824030		0.75
								AS6824040		1.00
								AS6823050		1.50
EK1, EL1	1751	4	1979-83	EK1, Eord, Prelude	77.00	1.50	3.30	AS6825	4 Cyl.	STD
						1.50	3.68	AS6825010		0.25
						4.00	3.68	AS6825020		0.50
								AS6825030		0.61
								AS6825040		0.75
								AS6825050		0.81
								AS6825060		1.00
								AS6825070		1.50
								AS6826		STD
								AS6826010		0.25
								AS6826020		0.50
								AS6826030		0.75
								AS6826040		1.00
ES1, ES2, ES3, ET2	1829	4	1983-87	ES1, ES2, ES3, Eord, Prelude	80.00	1.50	3.18	AS6827	4 Cyl.	STD
						1.50	3.48	AS6827010		0.50
						4.00	3.81	AS6827020		0.75
								AS6827030		1.00
								AS6828		STD
								AS6828010		0.50
								AS6828020		0.75
								AS6828030		1.00
	1958	4	1988-93	B20A3, B20A5 Prelude	81.00	1.20	3.33	AS6829	4 Cyl.	STD
						1.50	3.23	AS6829010		0.50
						2.80	3.18	AS6829020		0.75
								AS6829030		1.00
	1590	4	1993-99	B16A2 V-TEC Series	81.00	1.00	3.33	AS6830	4 Cyl.	STD
						1.20	3.15	AS6830010		0.25
						2.80	3.18	AS6830020		0.50
								AS6830030		0.75
								AS6830040		1.00
R18A1	1799	4	2006-14	R18A1 SOHC Civic	81.00	1.20	3.12	AS6831	4 Cyl.	STD
						1.20	3.15	AS6831010		0.25
						2.00	2.92	AS6831020		0.50
								AS6831030		0.75
								AS6831040		1.00
B16A	1590	4			81.00	1.00	3.33	AS6832	4 Cyl.	STD
						1.20	3.15	AS6832010		0.25
						2.80	3.18	AS6832020		0.50
								AS6832030		0.75
								AS6832040		1.00
GX-340				GX-340 Stationary	82.00	2.00	3.86	AS6833	1 Cyl.	STD
						2.00	3.25	AS6833010		0.25
						2.80	3.18			
	1955	4	1986-89	BS, ord, A20A	82.70	1.50	3.25	AS6834	4 Cyl.	STD
	1955		1985-89	BS, BT		1.50	3.61	AS6834010		0.50
						4.00	3.30	AS6834020		0.75
								AS6834030		1.00
								AS6835		STD
								AS6835010		0.50
								AS6835020		0.75
								AS6835030		1.00
	2056	4		B21A1 Prelude 16 Valve	83.00	1.20	3.12	AS6836	4 Cyl.	STD
						1.20	3.35	AS6836010		0.25
						2.80	3.30	AS6836020		0.50
								AS6836030		0.75
								AS6836040		1.00

										
HONDA										
B20B4, B20Z2	1972	4	1997-02	B20B4, B20Z2 CRV DOHC	84.00	1.20	3.33	AS6837	4 Cyl.	STD
						1.20	3.33	AS6837010		0.50
						2.80	2.79	AS6837020		0.75
								AS6837030		1.00
								AS6838		STD
B16, B20	1600	4			84.00	1.00	3.33	AS6839	4 Cyl.	STD
	2000					1.20	3.33	AS6839010		0.50
						2.80	3.30			
F22A1, F22A4, F22B2, F22B1	2156	4	1990-97	F22A1, F22A4, F22B1, F22ord	85.00	1.20	3.33	AS6840	4 Cyl.	STD
						1.20	3.35	AS6840010		0.25
						2.80	3.30	AS6840020		0.50
								AS6840030		0.75
								AS6840040		1.00
N22A1, N22A2	2204			Diesel DOHC N22A1 N22A2 w/2 pc oil ring	85.00	2.00	3.12	AS6841	1 Cyl.	STD
						2.00	3.15			
						3.00	3.33			
F23A1, F23A4, F23A7	2254	4	1998-02	F23A1, F23A4, F23A7, L-4	86.00	1.20	3.33	AS6842	4 Cyl.	STD
						1.20	3.58	AS6842010		0.50
						2.80	2.92	AS6842020		0.75
								AS6842030		1.00
J30A1, JNA1, J30A4	3000	6	1997-07	J30A1, JNA1, 4, 5 SOHC	86.00	1.20	3.33	AS6843	6 Cyl.	STD
						1.20	3.58	AS6843010		0.50
						2.80	2.92	AS6843020		0.75
								AS6843030		1.00
, K20A1, K20A3, K20Z3	1998	4	2002-11	K20A3, Civic, RSX DOHC I-VTECH	86.00	1.20	3.12	AS6844	4 Cyl.	STD
						1.20	3.58	AS6844010		0.50
						2.00	2.79	AS6844020		0.75
								AS6844030		1.00
K24Z7	2354	4	2013-14	K24Z7	87.00	1.20	3.12	AS6845	4 Cyl.	STD
						1.00	2.77	AS6845010		0.50
						2.00	2.79	AS6845020		0.75
PL2, C27A1	2675	6	1987-97	C27A	87.00	1.20	3.33	AS6846	6 Cyl.	STD
						1.20	3.35	AS6846010		0.50
						4.00	3.43	AS6846020		0.75
								AS6846030		1.00
H22A, H23 A, H22A1, H23A1, H22A3, H22A4	2156	4	1997-02	H22A4, Prelude	87.00	1.20	3.33	AS6847	4 Cyl.	STD
	2259		1992-00	H22A4, H23A1		1.20	3.35	AS6847010		0.25
						2.80	2.67	AS6847020		0.50
								AS6847030		0.75
								AS6847040		1.00
								AS6847050		1.50
								AS6848		STD
K24A1 K24A4 K24Y1	1997	4	2000-03	F20C V-TEC	87.00	1.20	3.33	AS6849	4 Cyl.	STD
	2156		2004-06	F22C V-TEC		1.20	3.35	AS6849010		0.25
	2354		2002-12	K24A1 K24A4 K24Y1 SOHC, DOHC		2.00	2.79	AS6849020		0.50
								AS6849030		0.75
								AS6849040		1.00
GX390K1				GX390K1 13HP	88.00	2.00	3.94	AS6850	1 Cyl.	STD
						2.00	3.96	AS6850010		1.00
						2.80	2.36			

											
HONDA											
J35A6, J35A7, J35A9, J35Z1	3471	6	1999-14	Odyssey, J35A6, J35A7, J35A9, 3.5 Litre J35Z1	89.00	1.20	3.33		AS6851	6 Cyl.	STD
						1.20	3.68		AS6851010		0.50
						2.80	2.79		AS6851020		0.75
									AS6851030		1.00
4ZE1	2559	4	1996-97	4ZE1 Isuzu, Passport	92.60	1.50	3.84		AS6852	4 Cyl.	STD
						1.50	4.34		AS6852010		0.50
						4.00	3.43		AS6852020		0.75
									AS6852030		1.00
									AS6853		STD
									AS6853010		0.25
									AS6853020		0.50
									AS6853030		0.75
									AS6853040		1.00
									AS6853050		1.50
6VD1	3156	6	1996-97	Passport Isuzu 6VD1	93.40	1.50	4.11		AS6854	6 Cyl.	STD
						1.50	4.06		AS6854010		0.25
						4.00	3.30		AS6854020		0.50
									AS6854030		0.75
									AS6854040		1.00
6VD1	3156	6	1998-02	6VD1 Isuzu	93.40	1.50	4.11		AS6855	6 Cyl.	STD
						1.50	4.06		AS6855010		0.50
						3.00	3.05		AS6855020		0.75
									AS6855030		1.00
HUDSON											
		6	1957	Rambler 5710	79.38	2.25	3.76		AS6901	6 Cyl.	STD
						2.25	3.78		AS6901010		0.50
						4.75	3.94		AS6901020		0.75
									AS6901030		1.00
									AS6901040		1.50
									AS6902		STD
									AS6902010		0.50
									AS6902020		0.75
									AS6902030		1.00
		8	1956-57	Hornet Special 35650, Rambler 5720	88.90	2.00	4.19		AS6903	8 Cyl.	STD
						2.00	4.22		AS6903010		0.75
						4.75	1.27		AS6903020		1.00
									AS6903030		1.50
									AS6904		STD
									AS6904010		0.25
									AS6904020		0.50
									AS6904030		0.75
									AS6904040		1.00
									AS6905		STD
									AS6905010		0.75
									AS6905020		1.00

										
HUDSON										
		8	1956-57 All		101.60	2.00	4.78		AS6906 8 Cyl.	STD
						2.00	4.80		AS6906010	0.25
						4.75	4.88		AS6906020	0.50
									AS6906030	0.75
									AS6906040	1.00
									AS6906050	1.50
									AS6906060	1.75
									AS6906070	2.00
									AS6906080	2.50
									AS6907	STD
									AS6907010	0.25
									AS6907020	0.50
									AS6907030	0.75
									AS6907040	1.00
									AS6907050	1.50
									AS6907060	1.75
									AS6907070	2.00
									AS6908	STD
									AS6908010	0.13
									AS6908020	0.25
									AS6908030	0.50
									AS6908040	0.75
									AS6908050	1.00
									AS6908060	1.50
									AS6908070	1.75
									AS6908080	2.00
									AS6908090	2.50
HUMMER										
396cu. in.		8	Diesel (incl Turbo) Special .029 to .039 gap 2nd ring		103.00	3.00	4.47		AS7001 8 Cyl.	STD
						2.00	4.24		AS7001010	0.50
						4.00	5.31		AS7001020	0.75
									AS7001030	1.00
									AS7001040	1.50
HYUNDAI										
G4HC, G4DG, Epsilon 1.0 999		4	999cc G4HC, Atos		66.00	1.20	2.92		AS7101 4 Cyl.	STD
						1.20	3.07		AS7101010	0.25
						2.50	3.05		AS7101020	0.50
									AS7101030	0.75
									AS7101040	1.00
G4HC	1100	4	2005-08 SOHC, G4HC, Atos, Chrysler w/2.5mm oil grv		67.00	1.20	2.92		AS7102 4 Cyl.	STD
						1.20	3.07		AS7102010	0.25
						2.50	3.05		AS7102020	0.50
									AS7102030	0.75
G4HC	1100	4	2005-08 SOHC, G4HC, Atos, Chrysler w/2.8mm oil grv		67.00	1.20	2.92		AS7103 4 Cyl.	STD
						1.20	3.07		AS7103010	0.50
						2.80	2.36		AS7103020	0.75
G4HC	1100	4	2005-08 SOHC, G4HC, Atos, Chrysler w/2.0mm oil grv		67.00	1.20	2.92		AS7104 4 Cyl.	STD
						1.20	3.07		AS7104010	0.25
						2.00	2.92		AS7104020	0.50
									AS7104030	0.75
									AS7104040	1.00
									AS7105	STD

										
HYUNDAI										
G4EA, G4K, G4N, G4EH	1341	4	1996-On	G4ent	71.50	1.50	2.79	AS7106	4 Cyl.	STD
						1.50	3.12	AS7106010		0.50
						3.00	3.30	AS7106020		0.75
								AS7106030		1.00
								AS7106040		1.50
								AS7107		STD
								AS7107010		0.25
								AS7107020		0.50
G4EA	1341	4	2010-16	GETZ, ACCENT MPI	71.50	1.20	3.12	AS7108	4 Cyl.	STD
						1.20	2.97			0.50
						2.00	2.79			1.00
	1400	4		Pony	73.00	1.50	3.10	AS7109	4 Cyl.	STD
						1.50	3.07	AS7109010		0.50
						4.00	3.30	AS7109020		0.75
								AS7109030		1.00
								AS7109040		1.50
								AS7110		STD
								AS7110010		0.25
								AS7110020		0.50
								AS7110030		0.75
								AS7110040		1.00
								AS7110050		1.50
G4EK	1468	4	2006-11	G4EK MPI DOHC Attitude	75.50	1.20	2.92	AS7111	4 Cyl.	STD
						1.20	2.97	AS7111010		0.25
						2.00	3.05	AS7111020		0.50
								AS7111030		0.75
								AS7111040		1.00
G4EK	1468	4	1996-00	G4FK DOent	75.50	1.20	2.92	AS7112	4 Cyl.	STD
						1.50	3.12	AS7112010		0.25
						3.00	3.18	AS7112020		0.50
								AS7112030		0.75
								AS7112040		1.00
								AS7112050		1.50
G4AE, G4EK,	1500	4	1993-00	SOHC, G4EK	75.50	1.50	2.95	AS7113	4 Cyl.	STD
						1.50	3.12	AS7113010		0.25
						3.00	2.79	AS7113020		0.50
								AS7113030		0.75
								AS7113040		1.00
								AS7114		STD
								AS7114010		0.25
								AS7114020		0.50
								AS7114030		0.75
								AS7114040		1.00
	1468	4	1985-92	Excel	75.50	1.50	2.95	AS7115	4 Cyl.	STD
						1.50	3.12	AS7115010		0.25
						4.00	3.68	AS7115020		0.50
								AS7115030		0.75
								AS7115040		1.00
								AS7115050		1.50
								AS7116		STD
								AS7116010		0.25
								AS7116020		0.50
								AS7116030		0.75
								AS7116040		1.00
								AS7116050		1.50
								AS7117		STD
								AS7117010		0.25
								AS7117020		0.50
								AS7117030		0.75
								AS7117040		1.00
	1599	4	2006-12	DOHC L4 w/2.0mm Oil Grv.	76.50	1.20	3.12	AS7118	4 Cyl.	STD
						1.20	3.48	AS7118010		0.50
						2.00	2.92	AS7118020		0.75

										
HYUNDAI										
G4ED, G4GR,	1599	4	2001-05	DOHC, G4ED, G4GR w/25mm Oil Grv.	76.50	1.20	3.12	AS7119	4 Cyl.	STD
						1.20	3.48	AS5719010		0.50
						2.50	2.92	AS5719020		0.75
								AS5719030		1.00
	1599	4		Elantra 2000	76.50	1.20	2.92	AS7120	4 Cyl.	STD
						1.50	3.23	AS7120010		0.25
						2.50	2.79	AS7120020		0.50
								AS7120030		0.75
G32B	1597	4	1985-90	Stellar, G32B	76.90	2.00	3.66	AS7121	4 Cyl.	STD
						2.00	3.68	AS7121010		0.25
						4.00	3.94	AS7121020		0.50
								AS7121030		0.75
								AS7121040		1.00
								AS7121050		1.50
								AS7122		STD
								AS7122010		0.25
								AS7122020		0.50
								AS7122030		0.75
								AS7122040		1.00
G4FA G4FC	1396	4	2010-on	GAMMA, ACCENT, AVENTE HD	77.00	1.20	3.12	AS7123	4 Cyl.	STD
G4FC, G4FJ	1591		2008-16	GAMMA, ACCENT, AVENTE HD, VOLOSTER		1.20	3.38	AS7123010		0.50
						2.00	2.92	AS7123020		1.00
CRDI, D4FB	1582			CRDI, D4FB	77.20	1.75	3.05	AS7124	1 Cyl.	STD
						1.75	3.38			
						3.00	3.33			
G4DR, G4GR, G4ED, J2, 1596 Beta 1.6,		4	1996-On	G4DR 16V	77.40	1.20	2.92	AS7125	4 Cyl.	STD
						1.20	3.40	AS7125010		0.50
						2.50	2.92	AS7125020		1.00
	1797	4	2012-16	G4NBB DOHC "NU SERIES" ELANTRA, MISTRA, i40	81.00	1.00	3.33	AS7126	4 Cyl.	STD
						1.20	3.15	AS7126010		1.25
						2.00	2.54	AS7126020		2.50
G4CM, G4DM, G4JN	1796	4	1996-On	DOHC, 16 Valve, Elantra, G4CM, G4DM, G4JN	81.50	1.20	3.33	AS7127	4 Cyl.	STD
						1.50	3.23	AS7127010		0.50
						3.00	2.67	AS7127020		0.75
								AS7127030		1.00
G4CN	1796	4	1993-95	G4CN, Elantra EXPORT ONLY	81.50	1.20	3.53	AS7128	4 Cyl.	STD
						1.50	3.23	AS7128010		0.50
						2.80	2.67	AS7128020		0.75
								AS7128030		1.00
G4GB, G4GF, G4GN, Beta 1.8, G4GF, G4GN, G4GM, G4JP, G4CP, G4GB, G4DM, G4GC		4	1993-95	G4CN Vin: M Elantra, Tiburon	82.00	1.20	3.12	AS7129	4 Cyl.	STD
	1997		1997-08	G4JP Vin: B, D, F, Elantra, Tiburon		1.20	3.48	AS7129010		0.25
						2.50	2.92	AS7129020		0.50
								AS7129030		0.75
								AS7129040		1.00
G4GF	1975	4	2004-09	DOHC, G4GF Tucson	82.00	1.20	3.12	AS7130	4 Cyl.	STD
						1.20	3.48	AS7130010		0.50
						2.00	2.92	AS7130020		1.00
	1595	4	1992-95	Elantra, DOHC, 16 Valve, G4CR, G4DR	82.30	1.20	3.33	AS7131	4 Cyl.	STD
						1.50	3.61	AS7131010		0.50
						3.00	2.79	AS7131020		0.75
								AS7131030		1.00

										
HYUNDAI										
	1905		1998-00	Diesel SOHC DJY, XUD9A	83.00	2.00	3.61	AS7132	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
D3EA	1493			Diesel SOHC D3EA	83.00	2.00	3.20	AS7133	1 Cyl.	STD
	1991			Diesel SOHC D4EA		2.00	3.73			
						3.00	3.33			
	2500	6	1999-01	Sonata	84.00	1.20	3.33	AS7134	6 Cyl.	STD
						1.20	3.33	AS7134010		0.50
						2.50	2.79	AS7134020		0.75
								AS7134030		1.00
D4HA IX35	1995		2010-On	Diesel DOHC D4HA IX35 Tucson	84.00	2.50	3.15	AS7135	1 Cyl.	STD
						2.00	3.68			
						3.00	3.33			
G4CP, G4GF	1997	4		G4CP, G4GF	85.00	1.20	3.33	AS7136	4 Cyl.	STD
						1.50	3.43	AS7136010		0.25
						3.00	2.67	AS7136020		0.50
								AS7136030		0.75
								AS7136040		1.00
								AS7136050		1.50
	2000	4		Stellar	85.00	2.00	3.81	AS7137	4 Cyl.	STD
						2.00	3.45	AS7137010		0.50
						4.00	3.43	AS7137020		0.75
								AS7137030		1.00
								AS7137040		1.50
								AS7138		STD
								AS7138010		0.50
								AS7138020		0.75
								AS7138030		1.00
								AS7138040		1.50
G64B	2351	4	1989-93	Sonata, G64B	86.50	1.50	3.45	AS7139	4 Cyl.	STD
						1.50	3.45	AS7139010		0.50
						4.00	3.68	AS7139020		0.75
								AS7139030		1.00
								AS7139040		1.50
								AS7140		STD
								AS7140010		0.25
								AS7140020		0.50
								AS7140030		0.75
								AS7140040		1.00
G4JS	2400	4	1999-02	Sonata, G4JS	86.50	1.20	3.33	AS7141	4 Cyl.	STD
						1.50	3.45	AS7141010		0.50
						2.80	2.79	AS7141020		0.75
								AS7141030		1.00
								AS7141040		1.50
G6BA	2656	6		G6BA DOHC 24V Santa Fe, Sonata, Tiburon	86.68	1.20	3.33	AS7142	6 Cyl.	STD
						1.20	3.91	AS7142010		0.50
						2.50	3.05	AS7142020		0.75
								AS7142030		1.00
G6BA	2656	6	2006-10	SANTA FE, TIBURON, TUCSON	86.70	1.20	3.33	AS7143	6 Cyl.	STD
						1.20	3.78	AS7143010		0.50
						2.00	3.05			
D4EB-F, D4EB-G	2188			Diesel SOHC D4EB-F D4EB-G Santa FE CRDI	87.00	2.50	3.25	AS7144	1 Cyl.	STD
						2.00	4.17			
						3.00	3.33			
G4KC, G4KJ	2359	4	2006-15	G4KC, G4KJ DOHC Sonata, Tucson	88.00	1.20	3.33	AS7145	4 Cyl.	STD
						1.20	3.33	AS7145010		0.50
						2.00	2.79	AS7145020		0.75
								AS7145030		1.00

										
HYUNDAI										
D4CD	2497		2002-On	Diesel H100 DOHC D4CD TCi w/Keystone top grv.	91.00	2.50	3.81	AS7146	1 Cyl.	STD
						2.00	3.99			
						3.00	3.33			
G6AT	2972	6	1990-98	G6AT	91.10	1.50	4.04	AS7147	6 Cyl.	STD
						1.50	4.06	AS7147010		0.25
						4.00	3.30	AS7147020		0.50
								AS7147030		0.75
								AS7147040		1.00
								AS7147050		1.50
								AS7148		STD
								AS7148010		0.25
								AS7148020		0.50
								AS7148030		0.75
								AS7148040		1.00
								AS7148050		1.50
D4BA		4		H100 Diesel, D4BA	91.10	2.00	3.45	AS7149	4 Cyl.	STD
						2.00	3.99	AS7149010		0.50
						3.00	3.23	AS7149020		0.75
4D56T, 4D56TDi, D4BF, D4BH, D4BH	2346			4D55T Turbo Diesel w/ Keystone top & 2nd grv.	91.10	2.50	3.96	AS7150	1 Cyl.	STD
	2476		1991-On	8V SOHC Turbo Diesel 4D56T, 4D56TDi, D4BF, D4BH, D4BH TCi w/Keystone top & 2nd grv.		2.00	3.99	AS7150010		1.25
						4.00	4.24	AS7150020		2.50
4D55, D4BX	2346		1980-86	4D55 Diesel	91.10	2.50	3.96	AS7151	1 Cyl.	STD
	2476			8V SOHC D4BX Diesel		2.00	3.99			
						4.00	4.24			
4D55, D4BX	2346		1980-86	4D55 Diesel	91.10	2.00	3.51	AS7152	1 Cyl.	STD
	2476			8V SOHC D4BX Diesel		2.00	3.99			
						4.00	4.24			
G6DB	3342	6	2006-12	G6DB V6 Azera, Sonata, Santa Fe	92.00	1.20	3.33	AS7153	6 Cyl.	STD
	3470		2010-12	G6DC V6 DOHC Santa Fe		1.20	3.81	AS7153010		0.50
						2.00	2.92	AS7153020		0.75
								AS7153030		1.00
G6CU, XG350	3467	6	2002-06	DOHC, G6CU, XG350	93.00	1.50	3.48	AS7154	6 Cyl.	STD
						1.50	3.78	AS7154010		0.50
						3.00	2.79	AS7154020		0.75
								AS7154030		1.00
								AS7155		STD
								AS7155010		0.50
								AS7155020		0.75
								AS7155030		1.00
	2500	4	1999-01	Sonata	95.00	1.50	3.56	AS7156	4 Cyl.	STD
						1.50	3.73	AS7156010		0.50
						4.00	3.30	AS7156020		1.00
								AS7157		STD
								AS7157010		0.25
								AS7157020		0.50
	3778	6	2006-12	DOHC Azera, Entourage, Genesis, Veracruz	96.00	1.20	3.12	AS7158	6 Cyl.	STD
						1.20	3.81	AS7158010		0.50
						2.00	2.92	AS7158020		0.75
								AS7158030		1.00
J3	2902		2003-06	Diesel SOHC J3 TCi	97.10	2.00	3.71	AS7159	1 Cyl.	STD
						2.00	4.22			
						3.00	3.68			

										
HYUNDAI										
J3 TCi, J3 CRDi	2902		2003-06	Diesel SOHC J3 TCi, J3 CRDi	97.10	2.50	3.66	AS7160	1 Cyl.	STD
						2.00	4.22			
						3.00	3.94			
INDIAN										
338TC, 339, 339B, 340, 341 MTC18				74 338TC, 339, 339B, 340, 341 MTC18	82.55	2.25	3.89	AS7201	2 Cyl.	STD
						2.25	3.91	AS7201010		1.00
						2.25	3.91	AS7201020		1.50
						4.00	4.39			
INFINITI										
SR20DE		4	1991-00	SR20D, G20, Ininiti	86.00	1.50	3.45	AS7301	4 Cyl.	STD
						1.50	3.43	AS7301010		0.50
						3.00	3.81	AS7301020		0.75
								AS7301030		1.00
								AS7301040		1.50
								AS7302		STD
								AS7302010		0.25
								AS7302020		0.50
								AS7302030		0.75
								AS7302040		1.00
								AS7302050		1.50
VG30DE, VG30E		6	1990-95	VG30E, VG30DE, M30, J30	87.00	1.50	3.33	AS7303	6 Cyl.	STD
						1.50	4.14	AS7303010		0.50
						2.80	3.30	AS7303020		0.75
								AS7303030		1.00
								AS7304		STD
								AS7304010		0.50
								AS7304020		0.75
								AS7304030		1.00
VH41DE, VK45DE	4130	8	1997-01	VH41DE, Ininiti Q41 Model	93.00	1.50	3.45	AS7305	8 Cyl.	STD
	4494		1990-04	VH45DE, Ininiti Q45 Model		1.50	3.78	AS7305010		0.50
						2.80	3.18	AS7305020		0.75
								AS7305030		1.00
D4BX	4494	8	2005-On	VK45DE	93.00	1.20	3.33	AS7306	8 Cyl.	STD
						1.20	3.81			
						2.50	2.79			
VQ35DE	3498	6	2001-07	VQ35DE DOHC 24V G35, I35, QX4	95.50	1.20	3.73	AS7307	6 Cyl.	STD
						1.20	3.81	AS7307010		0.50
						2.50	2.92	AS5907020		0.75
								AS7307030		1.00
VQ35HR, VQ37VHR, VQ35DE	3498	6	2007-14	VQ35HR DOHC EX35, FX35, G35, M35, FX50, M45,	95.50	1.20	3.12	AS7308	6 Cyl.	STD
	3699		2009-14	VQ37VHR DOHC G37, M37, Journey, Premium, Q70		1.20	3.81	AS7308010		0.50
						2.00	2.92	AS7308020		0.75
								AS7308030		1.00
VK56DE	5552	8	2004-06	VK56DE QX56	98.00	1.50	3.45	AS7309	8 Cyl.	STD
						1.50	4.01	AS7309010		0.50
						2.50	2.67	AS7309020		0.75
								AS7309030		1.00
								AS7310		STD
								AS7310010		0.50
								AS7310020		0.75
								AS7310030		1.00
INGERSOLL-RAND										
				242 2 Stage Also Fits 2 1/2" Compressor with 1/8" grvs.	101.60	8.00	4.39	AS7401	1 Cyl.	STD
						8.00	5.33			
						8.00	5.31			
						8.00	5.31			

										
INGERSOLL-RAND										
				25, 25B, 25C, 25M 2 Stage Fits 5" & 6" Compressor	152.40	19.00	4.85	AS7402	1 Cyl.	STD
						19.00	8.43			
						19.00	4.52			
						19.00	8.20			
INTERNATIONAL										
				198 Diesel Nissan	83.00	2.50	3.53	AS7501	2 Cyl.	STD
						2.00	3.35			
						2.00	3.35			
						4.50	4.14			
						4.50	3.81			
		6		GRD233 31, 41, 51, 122C, 123, 125SP CI Piston	84.14	2.38	3.81	AS7502	6 Cyl.	STD
				GRD214, 233, HD213, 232		2.38	3.84	AS7502010		0.75
						2.38	3.84			
						4.75	1.27			
FAB241		6		FAB241	85.73	3.18	4.04	AS7503	6 Cyl.	STD
						3.18	3.89			
						3.18	3.89			
						4.75	1.27			
BLD250		6		BLD250	87.31	2.38	4.11	AS7504	6 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	1.27			
FAB259		6		FAB259 To S/N 12212	88.90	3.18	3.96	AS7505	6 Cyl.	STD
						3.18	3.66			
						3.18	3.66			
						4.75	4.24			
		6		U220, U240 4 Ring Piston	90.49	2.38	4.27	AS7506	6 Cyl.	STD
				B240, BD269, BLD269 Canada		3.18	4.04	AS7506010		0.75
				BD220, BD240, S220, S240, SD220, SD240		3.18	4.04			
				FAC269		4.75	4.62			
		6		BD240 Field Harvester 20C, 36	90.49	2.38	4.27	AS7507	6 Cyl.	STD
				BD220 101		3.18	4.04	AS7507010		0.75
				BD220 127, 141, 303		4.75	4.62			
				U220, UB220 3 Ring Piston 302 series						
				BD220, BD240, BG220, BG241, SD220 3 Ring Piston						
		8		V266	92.08	2.38	4.06	AS7508	8 Cyl.	STD
						2.38	4.09	AS7508010		0.50
						4.75	1.27	AS7508020		0.75
								AS7509		STD
		6		U21, PA50	95.25	3.18	3.91	AS7510	6 Cyl.	STD
				FBB3, FBB223, FBB298		3.18	3.94			
						3.18	3.94			
						4.75	4.45			

										
INTERNATIONAL										
258 cu. in.		6		6-232,	95.25	2.00	4.47	AS7511	6 Cyl.	STD
						2.00	4.50	AS7511010		0.25
						4.75	1.27	AS7511020		0.50
								AS7511030		0.75
								AS7511040		1.00
								AS7511050		1.50
								AS7512		STD
								AS7512010		0.25
								AS7512020		0.50
								AS7512030		0.75
								AS7512040		1.00
								AS7512050		1.50
								AS7513		STD
								AS7513010		0.25
								AS7513020		0.50
								AS7513030		0.75
								AS7513040		1.00
								AS7513050		1.50
		8		UV345, V304, V345	98.43	2.38	4.62	AS7514	8 Cyl.	STD
				V304, E		2.38	3.99	AS7514010		0.25
				V345, E		4.75	4.88	AS7514020		0.50
								AS7514030		0.75
								AS7514040		1.00
								AS7514050		1.50
								AS7515		STD
								AS7515010		0.50
								AS7515020		0.75
								AS7515030		1.00
								AS7515040		1.50
								AS7516		STD
								AS7516010		0.75
								AS7516020		1.00
								AS7516030		1.50
52T cu. in.		4		152, 1 Scout Comanche	98.43	2.38	4.62	AS7517	4 Cyl.	STD
				4-152, 4-152E		2.38	3.99	AS7517010		0.25
						4.75	4.88	AS7517020		0.50
								AS7517030		0.75
								AS7517040		1.00
								AS7517050		1.50
								AS7518		STD
								AS7518010		0.25
								AS7518020		0.50
								AS7518030		0.75
								AS7518040		1.00
								AS7518050		1.50
420cu. in.		8		Diesel 5/32" Oil Ring Grv.	101.60	2.00	4.78	AS7519	8 Cyl.	STD
						2.00	4.80	AS7519010		0.25
						4.00	4.45	AS7519020		0.50
								AS7519030		0.75
								AS7519040		1.00
420cu. in.		8		Diesel	101.60	2.00	4.78	AS7520	8 Cyl.	STD
						2.00	4.80	AS7520010		0.25
						2.80	3.63	AS7520020		0.50
								AS7520030		0.75
								AS7520040		1.00
								AS7520050		1.50
420cu. in.		8		Diesel Special .060 to .070 gap 2nd ring	101.60	2.00	4.78	AS7521	8 Cyl.	STD
						2.00	4.80	AS7521010		0.25
						2.80	3.63	AS7521020		0.50
								AS7521030		0.75
								AS7521040		1.00
								AS7521050		1.50

										
INTERNATIONAL										
	8			V401 White Mach. Piston #A1173P	104.78	2.38	4.93	AS7522	8 Cyl.	STD
				V461		2.38	4.95	AS7522010		0.50
						2.38	4.95	AS7522020		0.75
						4.75	5.00	AS7522030		1.00
								AS7522040		1.50
	8			461, UV401, V446	104.78	2.38	4.93	AS7523	8 Cyl.	STD
				MV404, MV446, V392, E; V461		2.38	4.95	AS7523010		0.50
				V392, V401, VS401		4.75	5.00	AS7523020		0.75
								AS7523030		1.00
								AS7523040		1.50
								AS7524		STD
								AS7524010		0.75
								AS7524020		1.00
								AS7524030		1.50
	4			196, 196E	104.78	2.38	4.93	AS7525	4 Cyl.	STD
						2.38	4.95	AS7525010		0.50
						4.75	5.00	AS7525020		0.75
								AS7525030		1.00
	6			UR450	111.13	2.38	4.70	AS7526	6 Cyl.	STD
				RD372, 406, 450 Late Piston, Zollner 4063 Piston *		2.38	4.47			
						4.75	5.08			
550cu. in.	8			DV550, B, S/N 15828-on, Zollner Piston #4185, 4253, 4288 Zollner Piston #4307C. Use .010 Oversize for	114.30	3.00	4.98	AS7527	8 Cyl.	STD
						2.38	4.85	AS7527010		0.25
						4.75	5.56	AS7527020		0.50
	8			UV549	114.30	2.38	5.36	AS7528	8 Cyl.	STD
				V549, FTV549 4 Ring Piston		2.38	4.85			
						2.38	4.85			
						4.75	5.08			
								AS7529		STD
								AS7529010		0.50
								AS7529020		0.75
								AS7529030		1.00
								AS7529040		1.50
								AS7529050		2.00
	6			U501	114.30	2.38	5.36	AS7530	6 Cyl.	STD
				RD501 After May 1957 Diesel		2.38	4.85	AS7530010		0.50
						4.75	5.56			
	8			V478, V549, FTV549, VS478, VS549 3 Ring Piston	114.30	2.38	5.36	AS7531	8 Cyl.	STD
						2.38	4.85			
						4.75	5.08			
								AS7532		STD
								AS7532010		0.50
								AS7532020		0.75
								AS7532030		1.00
								AS7532040		1.50
INTERNATIONAL-ALSO SEE CASE										
	4			C60, UC60 Engs. 50, 55T, 55W, 56	66.68	2.38	3.35	AS7601	4 Cyl.	STD
				C60 52R, 64		2.38	3.15			
				U1, UC60		4.75	1.27			
				C60 Cub, Intr. Lo-Boy				AS7602		STD
								AS7602010		0.50
								AS7602020		0.75
								AS7602030		1.00

										
INTERNATIONAL-ALSO SEE CASE										
		4		P12	76.20	3.18	3.45	AS7603	4 Cyl.	STD
				IHC F12, F14		3.18	3.48			
				IHC I12, I14, O12, O14; W12, W14 Late		3.18	3.48			
						3.18	3.48			
						4.75	2.21			
		4		C113 50, 55T, 55W, 56 (1/4" Oil Ring)	76.20	3.18	3.45	AS7604	4 Cyl.	STD
				C113 22, 64, 76, 81 (1/4" Oil Ring)		3.18	3.48			
				U2, U2A 1/4" Oil Ring		3.18	3.48			
				C113 Gas or Dist. A, AV, B, BN; Super A, AV; *Farnall C 1/4" Oil Ring		6.00	4.39			
								AS7605		STD
		4		C113 50, 55T, 55W, 56 (3/16" Oil Ring)	76.20	3.18	3.45	AS7606	4 Cyl.	STD
				C113 22, 64, 76, 81 (3/16" Oil Ring)		3.18	3.48			
				U2, U2A 3/16" Oil Ring		3.18	3.48			
				C113 Gas or Dist. A, AV, B, BN; Super A, AV; * Farnall C 3/16" Oil Ring		4.75	1.27			
		4		C113 Engine M&W Sleeve Kit Superior Piston #A1018 McQuay Norris Sleeve Kit #SA177 M & W Sleeve Kit Sealed Power #SP9	79.38	3.18	3.76	AS7607	4 Cyl.	STD
						3.18	3.78			
						3.18	3.78			
						6.35	4.62			
		4		C123 Gas 50, 55T, 55W, 56, 57T, 57W	79.38	2.38	3.76	AS7608	4 Cyl.	STD
				C123 Gas 76, 81		2.38	3.78			
				U123		6.35	4.62			
		4		C123 Gas 100, 130, 140, 200, 230, 240, * Super C	79.38	2.38	3.76	AS7609	4 Cyl.	STD
				C123 Dist. or Kero.100, 130, 140, 200, 240, Super A1, Super C		2.38	3.78			
						2.38	3.78			
						6.35	4.39			
		4		C113 Engine M&W Sleeve Kit Superior Piston #A1018 McQuay Norris Sleeve Kit #SA177 M & W Sleeve Kit Sealed Power #SP9	79.38	2.38	3.76	AS7610	4 Cyl.	STD
						2.38	3.78			
						2.38	3.78			
						4.75	1.27			
		4		C123 100, 200, Super A1, Super C	80.96	2.38	3.71	AS7611	4 Cyl.	STD
						2.38	3.23			
						6.35	4.39			
								AS7612		STD

										
INTERNATIONAL-ALSO SEE CASE										
	4			C123 Engine M & W Sleeve Kit Genuine Sleeve Kit Power Pkg. Kit Allied Sleeve Kit #WSA225 Basic Sleeve Kit #BA157, 159, 160 Permite Sleeve Kit #CSA255 Sealed Power Sleeve Kit #SL1814	80.96	2.38	3.71	AS7613	4 Cyl.	STD
						2.38	3.23			
						2.38	3.23			
						4.75	1.27			
	4			C123 Engine M&W Sleeve Kit Genuine Sleeve Kit Power Pkg. Kit Allied Sleeve Kit #WSA225 Basic Sleeve Kit #BA157, 159, 160 Permite Sleeve Kit #CSA255 Sealed Power Sleeve Kit #SL1814	80.96	2.38	3.71	AS7614	4 Cyl.	STD
						2.38	3.23			
						6.35	4.39			
	4			C123 Engine M&W Sleeve Kit Genuine Sleeve Kit Power Pkg. Kit Allied Sleeve Kit #WSA225 Basic Sleeve Kit #BA157, 159, 160 Permite Sleeve Kit #CSA255 Sealed Power Sleeve Kit #SL1814	82.55	2.38	3.89	AS7615	4 Cyl.	STD
						2.38	3.91	AS7615010		0.50
						2.38	3.91	AS7615020		1.00
						4.75	4.39			
								AS7616		STD
				K241 Kohler Cub Cadet	82.55	2.38	3.89	AS7617	1 Cyl.	STD
						2.38	3.91			
						4.75	1.27			
								AS7618		STD
	4			C123 Engine M&W Sleeve Kit Genuine Sleeve Kit Power Pkg. Kit Allied Sleeve Kit #WSA225 Basic Sleeve Kit #BA157, 159, 160 Permite Sleeve Kit #CSA255 Sealed Power Sleeve Kit #SL1814	82.55	2.38	3.89	AS7619	4 Cyl.	STD
						2.38	3.91			
						2.38	3.91			
						4.75	1.27			
								AS7620		STD
	4			C135 Gas 91	82.55	2.38	3.89	AS7621	4 Cyl.	STD
				C135 Gas T5, T340 Crawler		2.38	3.91			
				UC135, UC135B		4.75	1.27			
				C135 Gas 330, 340						
				C135 404, 2404				AS7622		STD

										
INTERNATIONAL-ALSO SEE CASE										
		4		C153 93	85.73	2.38	4.04	AS7623	4 Cyl.	STD
				C153 203		2.38	4.06	AS7623010		0.50
				C153 Gas 2444, 2500, 3514		4.75	1.27			
				UC153, U157						
				C146 Gas, C157 424, 444, 504, 2424, 2444						
		4		C152 122	85.73	3.18	4.04	AS7624	4 Cyl.	STD
				I4, IU4, U4, 122HT		4.00	3.89			
				C152 H, HV, I4, IU4, O4, OS4, W4		4.00	3.89			
						6.35	4.39			
		4		H	85.73	2.38	4.04	AS7625	4 Cyl.	STD
						2.38	4.06			
						2.38	4.06			
						6.35	4.39			
		4		C152 Engine * International Model H Kit M&W Sleeve Kit #SP4, 5 Superior Piston #A1019 Allied Sleeve Kit #WSA302, 303 Ertel Sleeve Kit #SA209, 210 Genuine Kit #S161, 164, 168 Sterling Piston M & W Sleeve Kit #SP70, 71, 72 International Model H Kit Power Pkg. Increased Bore Kit Kerosene	87.31	2.38	3.61	AS7626	4 Cyl.	STD
						2.38	4.14	AS7626010		0.50
						2.38	4.14	AS7626020		1.00
						6.35	4.50	AS7626030		1.50
								AS7627		STD
		4		C152 Engine * International Model H Kit M & W Sleeve Kit #SP4, 5 Superior Piston #A1019 Allied Sleeve Kit #WSA302, 303 Ertel Sleeve Kit #SA209, 210 Genuine Kit #S161, 164, 168 Sterling Piston M & W Sleeve Kit #SP70, 71, 72 International Model H Kit Power Pkg. Increased Bore Kit Kerosene	87.31	2.38	4.11	AS7628	4 Cyl.	STD
						2.38	4.14			
						2.38	4.14			
						4.75	1.27			
						4.75	4.14			
		4		C152 Engine *International Model H Kit M&W Sleeve Kit #SP4, 5 Superior Piston #A1019 Allied Sleeve Kit #WSA302, 303 Ertel Sleeve Kit #SA209, 210 Genuine Kit #S161, 164, 168 Sterling Piston M & W Sleeve Kit #SP70, 71, 72 International Model H Kit Power Pkg. Increased Bore Kit Kerosene	87.31	2.38	4.11	AS7629	4 Cyl.	STD
						2.38	4.14			
						2.38	4.14			
						6.35	4.50			

										
INTERNATIONAL-ALSO SEE CASE										
4				C152 Engine *International Model H Kit M & W Sleeve Kit #SP4, 5 Superior Piston #A1019 Allied Sleeve Kit #WSA302, 303 Ertel Sleeve Kit #SA209, 210 Genuine Kit #S161, 164, 168 Sterling Piston M & W Sleeve Kit #SP70, 71, 72 International Model H Kit Power Pkg. Increased Bore Kit Kerosene	87.31	2.38	4.11	AS7630	4 Cyl.	STD
						2.38	4.14			
						3.18	3.94			
						6.35	4.50			
4				BD154 500 Crawler, 2424, 2444D	88.90	2.38	3.63	AS7631	4 Cyl.	STD
				BD154 Diesel 3414, 3444D		2.38	3.99			
				Perk. BD154 Diesel B414, 444D, 2444D, * 3444D		2.38	3.99			
						4.75	4.24			
						4.75	3.99			
4				C164 Gas 140	88.90	2.38	4.19	AS7632	4 Cyl.	STD
				U164		2.38	3.99			
				C164 Gas Super H, HV, W4		2.38	3.99			
						6.35	4.62			
4				C169 Gas or LPG 140	90.49	2.38	4.27	AS7633	4 Cyl.	STD
				U169		2.38	3.68			
				C169 Gas or LPG 300 Series		2.38	3.68			
				C152 Engine * International Model H Kit M & W Sleeve Kit #SP4, 5 Superior Piston #A1019 Allied Sleeve Kit #WSA302, 303 Ertel Sleeve Kit #SA209, 210 Genuine Kit #S161, 164, 168 Sterling Piston M & W Sleeve Kit #SP70, 71, 72 International Model H Kit Power Pkg. Increased Bore Kit Kerosene		6.35	4.62			
6				C221 205, 303, 315	90.49	2.38	4.27	AS7634	6 Cyl.	STD
				C263 403		2.38	3.68			
				C221 Gas or LPG T6		6.35	4.62			
				C221 Gas 3616						
				C263 Gas or LPG T6-62 Series 2656						
				UC221, C263						
				C221 Gas or LPG 460, 606, 656, 2606						
				C263 Gas or LPG 560, 656 Series, 660, 2656, 2706						
6				T35, TA40	92.08	3.18	3.84	AS7635	6 Cyl.	STD
				IA40, WA40		3.18	3.86			
						3.18	3.86			
						4.75	1.27			
4				C175 Gas or LPG 140	92.08	2.38	4.32	AS7636	4 Cyl.	STD
				U175, 350 Utility		2.38	4.09			
				C175 Gas or LPG 300, 350		2.38	4.09			
				C169 Dist. or Gas Engine Power Package Overbore		6.35	4.62			
				C175 Dist., Gas or LPG Engine 350 Series, 1300, 1350 Power Package-350 Conversion--300 Allied Sleeve Kit #WSA268, 269, 317 McQuay Norris Sleeve Kit #SA228, 229 Perfect Circle Sleeve Kit #WSA268, 269, 317						

										
INTERNATIONAL-ALSO SEE CASE										
				D166 TD340 Crawler	93.66	3.00	4.11	AS7637	2 Cyl.	STD
				D188 Diesel 2444, 2500, 3514		3.18	4.14			
				D282 TD6, TD6-62, 2656D, TD9-92 1/8" Half Keystone Top Ring		6.35	4.75			
				DT282 TD9B						
				UD166 1/8" Half Keystone Top Ring						
				UD236, UD282 1/8" Half Keystone Top Ring						
				D166 Diesel 340						
				D188 504, 504D, 2504, 2504D						
				D236 460D, 606, 2606, 3616D 1/8" Half Keystone Top Ring						
				D282 560D, 656D, 660D, 706, 2656D, 2706 * 1/8" Half Keystone Top Ring						
	6			C282 503, 403 Hillside	93.66	2.38	4.42	AS7638	6 Cyl.	STD
						2.38	4.45			
						6.35	4.62			
	6			UC301 Gas or LPG 806, 2806 After #4996	96.84	3.18	4.55	AS7639	6 Cyl.	STD
						2.38	4.24	AS7639010		0.50
						6.35	4.88	AS7639020		1.50
	4			C200	96.84	3.18	4.55	AS7640	4 Cyl.	STD
				C200 544, 2544		2.38	4.24	AS7640010		0.50
						6.35	4.88	AS7640020		1.50
				)						
	4			D239, DT239, 544, I544, 574 Eng's.	98.43	3.00	4.29	AS7641	4 Cyl.	STD
						2.38	3.99			
						4.75	4.88			
	4			206D	98.43	3.00	4.29	AS7642	4 Cyl.	STD
						3.18	4.32			
						3.18	4.32			
						4.75	5.56			
	6			D310 666, 706, 756 4 Ring Piston	98.43	3.00	4.29	AS7643	6 Cyl.	STD
						3.18	4.32			
						3.18	4.32			
						4.75	5.56			
	6			D312, D360, DT360	98.43	3.00	4.29	AS7644	6 Cyl.	STD
				D310, D312, D358, DT358, D360, DT360 Eng's. 3 Ring Piston		2.38	3.99			
						4.75	4.88			
	6			Herc. G3400 SPH908 Hillside	101.60	2.50	4.78	AS7645	6 Cyl.	STD
						3.18	4.11			
						4.75	4.88			
						4.75	4.37			
	4			D248, D264 Engine M&W Sleeve Kit #SP14	101.60	2.38	4.78	AS7646	4 Cyl.	STD
						2.38	4.80			
						3.18	4.11			
						6.00	4.88			
						6.35	4.24			

										
INTERNATIONAL-ALSO SEE CASE										
				C248 Engine M&W Sleeve Kit #SP60, SP61, SP62 McQuay Norris Sleeve Kit #AS162, 173, 241	101.60	2.38	4.78	AS7647	2 Cyl.	STD
						2.38	4.80			
						2.38	4.80			
						6.35	4.88			
		4		C264 Gas or LPG T6-61	101.60	2.50	4.78	AS7648	4 Cyl.	STD
				U264 Late Piston		2.38	4.42			
				C264 Gas or LPG Super M, M, M-TA, MV, W6 *		2.38	4.42			
				C248 Engine M&W Sleeve Kit Power Pkg. Increased Bore Kit Superior Piston #A1011 Sealed Power Sleeve Kit #SL1741		6.35	4.88			
		4		IHC Super M, W6 Sterling Piston	101.60	2.38	4.78	AS7649	4 Cyl.	STD
						2.38	4.42			
						2.38	4.42			
						6.00	4.88			
						6.35	4.24			
		4		C248 Engine M&W Sleeve Kit #SP60, SP61, SP62 McQuay Norris Sleeve Kit #AS162, 173, 241	101.60	2.50	4.78	AS7650	4 Cyl.	STD
						2.38	4.80			
						3.18	4.11			
						6.35	4.88			
		4		C264 Engine M&W Sleeve Kit Sealed Power #SL1758, 1761 Super M, MV White Machine Kit #G271H, Super M, 400 Basic Sleeve Kit #BA163, 164 Ertel Sleeve Kit #SA217 Genuine Parts Sleeve Kit #S171, 173 McQuay Norris Sleeve Kit #SA172, 244, 252	104.78	2.38	4.93	AS7651	4 Cyl.	STD
						3.18	4.52			
						3.18	4.52			
						4.75	5.00			
		4		C281 Gas or LPG 400, 450, W450	104.78	2.38	4.93	AS7652	4 Cyl.	STD
				C281 Super M, M, MTA, MV, W6		2.38	4.52			
				C264 Engine M&W Sleeve Kit Sealed Power #SL1758, 1761 Super M, MV White Machine Kit #G271H, Super M, 400 Basic Sleeve Kit #BA163, 164 Ertel Sleeve Kit #SA217 Genuine Parts Sleeve Kit #S171, 173 McQuay Norris Sleeve Kit #SA172, 244, 252		2.38	4.52			
						6.35	5.00			
		4		C264 Engine M&W Sleeve Kit Sealed Power #SL1758, 1761 Super M, MV White Machine Kit #G271H, Super M, 400 Basic Sleeve Kit #BA163, 164 Ertel Sleeve Kit #SA217 Genuine Parts Sleeve Kit #S171, 173 McQuay Norris Sleeve Kit #SA172, 244, 252	104.78	2.38	4.93	AS7653	4 Cyl.	STD
						2.38	4.95			
						3.18	4.52			
						6.35	5.00			

										
ISETTA										
				Isetta, 300	72.00	2.00	3.38	AS7701	1 Cyl.	STD
						2.00	3.40			
						2.50	3.10			
						4.00	3.56			
ISUZU-JAPANESE										
4EC1	1487	4		4EC1, Gemini	76.00	2.00	3.20	AS7801	4 Cyl.	STD
						1.50	3.23	AS7801010		0.50
						3.00	3.18	AS7801020		0.75
								AS7801030		1.00
4XC1	1471	4	1985-89	4XC1, OHC, 2 Ring Piston	77.00	1.50	3.30	AS7802	4 Cyl.	STD
						2.80	3.30	AS7802010		0.50
								AS7802020		0.75
								AS7802030		1.00
								AS7803		STD
								AS7803010		0.50
								AS7803020		0.75
								AS7803030		1.00
4XC1-H, 4XC1-T	1471	4	1985-89	4XC1-H, 4XC1-T Turbo	77.00	1.20	3.33	AS7804	4 Cyl.	STD
						1.20	3.48	AS7804010		0.50
						2.80	3.30	AS7804020		0.75
								AS7804030		1.00
	1686	4		Diesel Turbo	79.00	2.00	3.40	AS7805	4 Cyl.	STD
						1.50	3.43	AS7805010		0.50
						3.00	3.30			
								AS7806	4 Cyl.	STD
								AS7806010		0.50
								AS7806020		1.00
4EE	1686			Diesel Turbo 4EE incl/Turbo DOHC w/2pc oil ring	79.00	2.00	2.90	AS7807	1 Cyl.	STD
						1.50	3.48			
						3.00	3.68			
4XE1, 4XE1W, 4XF1	1588	4	1988-93	4XE1	80.00	1.20	3.33	AS7808	4 Cyl.	STD
	1809		1992-93	4XF1		1.20	3.20	AS7808010		0.50
						3.00	3.18	AS7808020		0.75
								AS7808030		1.00
G161, G161AB, PR50, PA20Y	1684	4		G161, G161AB Engs. Bellet PR50, Florian PA20, PA20Y	82.00	2.00	3.86	AS7809	4 Cyl.	STD
						2.00	3.25	AS7809010		0.50
						4.00	4.24	AS7809020		0.75
								AS7809030		1.00
								AS7809040		1.50
								AS7810		STD
								AS7810010		0.25
								AS7810020		0.50
								AS7810030		0.75
								AS7810040		1.00
								AS7810050		1.50
								AS7811		STD
G161-2 KB26	1584	4		G161-2 KB26	82.00	1.50	3.86	AS7812	4 Cyl.	STD
						1.50	3.25	AS7812010		0.50
						4.00	3.18	AS7812020		0.75
								AS7812030		1.00
								AS7812040		1.50
								AS7813		STD
								AS7813010		0.50
								AS7813020		0.75
								AS7813030		1.00
								AS7813040		1.50

										
ISUZU-JAPANESE										
4ZA1	1600	4		4ZA1	82.00	1.50	3.23	AS7814	4 Cyl.	STD
						1.50	3.25	AS7814010		0.50
						4.00	3.18	AS7814020		0.75
								AS7814030		1.00
4ZB1, 4FC1	1817	4	1982-84	110 cu. in., 4ZB1, 4FC1	84.00	1.50	3.20	AS7815	4 Cyl.	STD
						1.50	3.73	AS7815010		0.25
						4.00	3.43	AS7815020		0.50
								AS7815030		0.75
								AS7815040		1.00
								AS7815050		1.50
								AS7816		STD
								AS7816010		0.25
								AS7816020		0.50
								AS7816030		0.75
								AS7816040		1.00
G180Z, S, SS	1817	4	1973-85	110.8 cu. in., G180Z, S, SS	84.00	2.00	3.99	AS7817	4 Cyl.	STD
						2.00	3.84	AS7817010		0.50
						4.00	3.43	AS7817020		0.75
								AS7817030		1.00
								AS7817040		1.50
								AS7818		STD
								AS7818010		0.25
								AS7818020		0.50
								AS7818030		0.75
								AS7818040		1.00
								AS7818050		1.50
4FB1	1817	4	1981-85	Diesel 4FB1	84.00	2.50	3.81	AS7819	4 Cyl.	STD
						2.00	3.84	AS7819010		0.25
						4.00	3.84	AS7819020		0.50
								AS7819030		0.75
								AS7819040		1.00
								AS7819050		1.50
F22B6	2156	4	1996-98	Oasis, F22B6	85.00	1.20	3.33	AS7820	4 Cyl.	STD
						1.20	3.35	AS7820010		0.25
						2.80	3.30	AS7820020		0.50
								AS7820030		0.75
								AS7820040		1.00
G201	1951	4		G201	86.00	2.50	4.04	AS7821	4 Cyl.	STD
						2.50	4.06			
						5.00	4.50			
C240	1951	4		C190	86.00	2.50	4.04	AS7822	4 Cyl.	STD
	2369			C240 For Cast Iron Liners		2.00	3.89	AS7822010		0.25
						4.00	3.78			
X22SE	2200	4	1998-00	X22SE, Rodeo	86.00	1.50	3.45	AS7823	4 Cyl.	STD
						1.50	3.43	AS7823010		0.50
						3.00	3.81	AS7823020		0.75
								AS7823030		1.00
								AS7823040		1.50
								AS7824		STD
								AS7824010		0.25
								AS7824020		0.50
								AS7824030		0.75
								AS7824040		1.00
								AS7824050		1.50
X22SE	2198	4	2001-04	X22SE, Rodeo, DOHC	86.00	1.20	3.12	AS7825	4 Cyl.	STD
						1.50	3.43	AS7825010		0.50
						2.50	2.79	AS7825020		0.75
								AS7825030		1.00

										
ISUZU-JAPANESE										
ZNG200	2000	4	1983-86	ZNG200 Impulse	87.00	1.50	3.61	AS7826	4 Cyl.	STD
						1.50	3.63	AS7826010		0.25
						4.00	3.43	AS7826020		0.50
								AS7826030		0.75
								AS7826040		1.00
								AS7826050		1.50
								AS7827		STD
G200Z	1949	4	1983-87	G200Z	87.00	1.50	3.61	AS7828	4 Cyl.	STD
						1.50	3.94	AS7828010		0.25
						4.00	3.43	AS7828020		0.50
								AS7828030		0.75
								AS7828040		1.00
								AS7828050		1.50
								AS7829		STD
								AS7829010		0.25
								AS7829020		0.50
								AS7829030		0.75
								AS7829040		1.00
								AS7830		STD
								AS7830010		0.25
								AS7830020		0.50
								AS7830030		0.75
								AS7830042		1.00
G200Z	1900	4	1982	G200Z	87.00	2.00	3.61	AS7831	4 Cyl.	STD
						2.00	3.94	AS7831010		0.50
						4.00	3.68	AS7831020		0.75
								AS7831030		1.00
								AS7831040		1.50
								AS7832		STD
								AS7832010		0.50
								AS7832020		0.75
								AS7832030		1.00
								AS7833		STD
								AS7833010		0.50
								AS7833020		0.75
								AS7833030		1.00
4ZC1	2238	4	1983-On	Diesel 223, 4ZC1 Chrome Sleeves use 4212 only	88.00	2.00	3.61	AS7834	4 Cyl.	STD
						2.00	3.63	AS7834010		0.25
						4.00	3.84			
								AS7835	4 Cyl.	STD
								AS7835010		0.25
								AS7835020		0.50
								AS7835030		0.75
								AS7835040		1.00
4ZC1 Turbo	1994	4	1985-89	4ZC1 Turbo	88.00	1.50	3.61	AS7836	4 Cyl.	STD
						1.50	3.63	AS7836010		0.50
						4.00	3.05	AS7836020		0.75
								AS7836030		1.00
								AS7836040		1.50
	2238	4	1986-87	Diesel C223T Turbo	88.00	2.50	4.14	AS7837	4 Cyl.	STD
						2.00	3.96	AS7837010		0.75
						4.00	4.04	AS783020		1.50
	2238	4	1981-83	Diesel C223	88.00	2.50	4.14	AS7838	4 Cyl.	STD
						2.00	3.96	AS7838010		0.50
						4.50	4.24	AS7838020		0.75
								AS7838030		1.00

										
ISUZU-JAPANESE										
	3097	6	1991-93 Rodeo	89.00	1.50	3.38		AS7839	6 Cyl.	STD
					1.50	4.01		AS7839010		0.25
					4.00	1.27		AS7839020		0.50
								AS7839030		0.75
								AS7839040		1.00
								AS7839050		1.50
								AS7840		STD
								AS7840010		0.25
								AS7840020		0.50
								AS7840030		0.75
								AS7840040		1.00
								AS7840050		1.50
	2827	6	1989-91 Trooper	89.00	1.50	3.38		AS7841	6 Cyl.	STD
					2.00	3.99		AS7841010		0.50
					4.75	3.81		AS7841020		0.75
								AS7841030		1.00
								AS7841040		1.50
								AS7842		STD
								AS7842010		0.25
								AS7842020		0.50
								AS7842030		0.75
								AS7842040		1.00
								AS7842050		1.50
LN2	2197	4	1996-99 Hombre LN2	89.00	1.50	3.38		AS7843	4 Cyl.	STD
					1.50	4.01		AS7843010		0.25
					3.00	1.27		AS7843020		0.50
								AS7843030		0.75
								AS7843040		1.00
								AS7843050		1.50
								AS7844		STD
								AS7844010		0.50
								AS7844020		0.75
								AS7844030		1.00
								AS7844040		1.50
4ZD1	2254	4	1986-93 4ZD-1	89.30	1.50	3.63		AS7845	4 Cyl.	STD
					1.50	3.66		AS7845010		0.25
					4.00	3.30		AS7845020		0.50
								AS7845030		0.75
								AS7845040		1.00
								AS7845050		1.50
								AS7846		STD
								AS7846010		0.25
								AS7846020		0.50
								AS7846030		0.75
								AS7846040		1.00
								AS7846050		1.50
								AS7847		STD
								AS7847010		0.50
								AS7847020		0.75
								AS7847030		1.00
4ZE1	2559	4	1986-97 4ZE1 Pickup, 156cu.in. Trooper II, Amigo	92.60	1.50	3.84		AS7848	4 Cyl.	STD
					1.50	4.34		AS7848010		0.50
					4.00	3.43		AS7848020		0.75
								AS7848030		1.00
								AS7849		STD
								AS7849010		0.25
								AS7849020		0.50
								AS7849030		0.75
								AS7849040		1.00
								AS7849050		1.50
4JB1T, 4JA1	2499	4	Diesel, 4JA-1, 4JB-1, KBD 23, KBD 28 TFR 54, TFS 54 Chrome Sleeve use 5057 only	93.00	2.00	4.34		AS7850	4 Cyl.	STD
					2.00	4.11				
					4.00	4.14				

										
ISUZU-JAPANESE										
	2499		1983-90	Diesel 4JA1 Chrome Sleeves use 7384 only	93.00	2.00	4.06	AS7851	1 Cyl.	STD
			1985-03	8V OHV 4JB1, 4JB1-T Turbo Diesel Chrome Sleeves use 7384 only		2.00	4.09			
						4.00	4.19			
								AS7852		STD
6VE1,	3494	6	2005-08	6VE1	93.40	1.20	3.53	AS7853	6 Cyl.	STD
						1.20	4.14	AS7853010		0.50
						2.00	3.18	AS7853020		1.00
6VD1	3165	6	1992-96	6VD1	93.40	1.50	4.11	AS7854	6 Cyl.	STD
						1.50	4.06	AS7854010		0.25
						4.00	3.30	AS7854020		0.50
								AS7854030		0.75
								AS7854040		1.00
6VD1, 6VE1	3165	6	1997-05	6VD1	93.40	1.50	4.11	AS7855	6 Cyl.	STD
	3494		1996-04	6VE1		1.50	4.06	AS7855010		0.50
						3.00	3.05	AS7855020		0.75
								AS7855030		1.00
4JH1	3059	4		D-MAX NOTE CHROME PLATED CYLINDER	95.40	2.50	4.09	AS7856	4 Cyl.	STD
						2.00	4.11			
						3.00	3.18			
4HK1TC	5193	4	2009-On	4HK1TC OHC Turbo Diesel ELF 400, 450, 500, 600	115.00	3.00	4.34	AS7857	4 Cyl.	STD
						2.50	4.88			
						4.00	5.18			
IVECO										
F1AE	2287			Turbo Diesel F1AE	88.00	2.50	3.81	AS7901	1 Cyl.	STD
						2.00	3.84			
						2.50	3.33			
	2798			Turbo Diesel 8140.23, 8140.43, 8140.43C	94.40	3.00	4.06	AS7902	1 Cyl.	STD
						2.00	4.09			
						3.00	3.78			
	2798			Turbo Diesel 8140.63 Euro, Soim	94.40	3.00	4.06	AS7903	1 Cyl.	STD
						2.00	4.09			
						2.50	3.33			
	2798		1999-06	Turbo Diesel 8140.23, 8140.43, 8140.43C	94.40	2.50	4.06	AS7904	1 Cyl.	STD
						2.00	4.09			
						2.50	3.33			
	3059	4		D-MAX DIESEL	95.40	2.50	4.09	AS7905	4 Cyl.	STD
						2.00	4.11			
						3.00	3.18			
4JJ1-TC	2999	4			95.40	2.00	3.56	AS7906	4 Cyl.	STD
4JK1-TC	2499					1.50	4.14			
						3.00	3.18			

										
IVECO										
F1CE	2998			Turbo Diesel F1CE, 441A, 481A	95.80	2.50	4.14	AS7907	1 Cyl.	STD
						2.00	4.17			
						2.50	3.33			
JAGUAR										
XK 3.4	2400	6	1949-64	3 1/2, Mark VII, XK120, XK140, XK150 3 Ring Piston	83.00	2.00	3.33	AS8001	6 Cyl.	STD
	3400		1949-64	3 1/2, Mark VII, XK120, XK140, XK150, 3 Ring Piston		2.00	3.35	AS8001010		1.50
						4.00	3.43			
XKE		12		XJS	90.00	1.60	3.99	AS8002	12 Cyl.	STD
				XJ12		2.00	4.01	AS8002010		0.50
	5343			XKE Series III		4.00	4.24	AS8002020		0.75
F1CE	3980	6	1997-On	XJR6	91.00	1.50	3.63	AS8003	6 Cyl.	STD
						1.50	4.06	AS8003010		0.50
						3.00	3.94	AS8003020		0.75
								AS8003030		1.00
XK 4.2	4200	6	1971-92	XJ6, XJ6 Series III Shallow Oil Ring Groove	92.00	2.00	4.32	AS8004	6 Cyl.	STD
						2.00	4.34	AS8004010		0.25
						4.75	4.39	AS8004020		0.50
								AS8004030		0.75
								AS8004040		1.00
								AS8005		STD
								AS8005010		0.25
								AS8005020		0.50
								AS8005030		0.75
								AS8005040		1.00
XK 4.2	4200	6	1970-91	XJ6, Mark I & II Deep Oil Ring Groove	92.00	2.00	4.32	AS8006	6 Cyl.	STD
			1964-71	XK-E Deep Oil Ring Groove		2.00	4.34	AS8006010		0.50
						4.75	4.62	AS8006020		1.00
								AS8007		STD
								AS8007010		0.25
								AS8007020		0.50
								AS8007030		0.75
								AS8007040		1.00
JEEP-EAGLE - INCLUDES AMERICAN MOTORS, CHRYSLER & WILLYS										
	1468	4	1991-96	92cu. in. Q, Eagle, 12 Valve	75.50	1.20	2.92	AS8101	4 Cyl.	STD
						1.50	3.12	AS8101010		0.25
						3.00	3.18	AS8101020		0.50
								AS8101030		0.75
								AS8101040		1.00
								AS8101050		1.50
	1468	4	1988-92	92cu. in., Eagle	75.50	1.50	2.95	AS8102	4 Cyl.	STD
						1.50	3.12	AS8102010		0.25
						4.00	3.68	AS8102020		0.50
								AS8102030		0.75
								AS8102040		1.00
								AS8102050		1.50
								AS8103		STD
								AS8103010		0.25
								AS8103020		0.50
								AS8103030		0.75
								AS8103040		1.00
								AS8103050		1.50
								AS8104		STD
								AS8104010		0.25
								AS8104020		0.50
								AS8104030		0.75
								AS8104040		1.00

										
JEEP-EAGLE - INCLUDES AMERICAN MOTORS, CHRYSLER & WILLYS										
		4	1933-39	37, 38, 48, 77	79.38	2.38	3.76	AS8105	4 Cyl.	STD
						2.38	3.78			
						2.38	3.78			
						4.75	1.27			
134 cu. in.		4	1940-74	, 3 Ring Piston CJ2A, CJ3A, MB, 475	79.38	2.38	3.76	AS8106	4 Cyl.	STD
						2.38	3.78	AS8106010		0.50
						4.75	1.27	AS8106020		0.75
								AS8106030		1.00
								AS8106040		1.50
								AS8106050		2.00
								AS8107		STD
								AS8107010		0.50
								AS8107020		0.75
								AS8107030		1.00
								AS8107040		1.50
134 cu. in.		4	1940-74	Eng, 4 Ring Piston	79.38	2.38	3.76	AS8108	4 Cyl.	STD
						2.38	3.78			
						4.75	1.27			
						4.75	3.78			
107cu. in.	1754	4	1989-94	, Eagle	80.60	1.50	3.58	AS8109	4 Cyl.	STD
						1.50	3.61	AS8109010		0.50
						4.00	3.30	AS8109020		0.75
								AS8109030		1.00
								AS8110		STD
								AS8110010		0.50
								AS8110020		0.75
								AS8110030		1.00
								AS8110040		1.50
181cu. in.	1834	4	1996	4G93 Mitsubishi	81.00	1.20	3.33	AS8111	4 Cyl.	STD
						1.20	3.15	AS8111010		0.50
						2.80	2.67	AS8111020		0.75
								AS8111030		1.00
	1595	4	1989-90	98cu. in. , Eagle, DOHC	82.30	1.20	3.33	AS8112	4 Cyl.	STD
						1.50	3.61	AS8112010		0.50
						3.00	2.79	AS8112020		0.75
								AS8112030		1.00
OM 651.925	2143	4	2010-on	Compass 2.2 CRD 4x4	83.00	2.00	3.51	AS8113	4 Cyl.	STD
						1.75	3.63	AS8113010		0.25
						2.00	3.10	AS8113020		0.50
		6	1954-64	6-226 or L6-226 Engs., Ace Deluxe, Bermuda, Custom, Eagle, B Series	84.14	2.38	3.99	AS8114	6 Cyl.	STD
			1955-62	Panel Delivery, Station Sedan, FC170, 6-226		2.38	4.01	AS8114010		1.00
						4.00	4.39			
						4.00	4.01			
		6	1933	99 4 Ring Piston	84.14	2.38	3.81	AS8115	6 Cyl.	STD
						2.38	3.84	AS8115010		0.75
						2.38	3.84			
						4.75	1.27			
230 cu. in.		6	1962-66	Tomada, A, B Series OHC	84.94	2.00	4.01	AS8116	6 Cyl.	STD
						2.00	4.04	AS8116010		0.75
						4.75	1.27	AS8116020		1.00
								AS8117		STD
								AS8117010		0.75
								AS8117020		1.00

										
JEEP-EAGLE - INCLUDES AMERICAN MOTORS, CHRYSLER & WILLEYS										
122cu. in.	1997	4	1990-93	Eagle, DOHC Incl. Turbo	85.00	1.20	3.33	AS8118	4 Cyl.	STD
						1.50	3.43	AS8118010		0.25
						3.00	3.30	AS8118020		0.50
								AS8118030		0.75
								AS8118040		1.00
								AS8118050		0.25
122cu. in.	1997	4	1993-94	DOHC incl. Turbo Mitsubishi 4G63	85.00	1.20	3.33	AS8119	4 Cyl.	STD
						1.50	3.43	AS8119010		0.25
						3.00	2.67	AS8119020		0.50
								AS8119030		0.75
								AS8119040		1.00
								AS8119050		1.50
	1997	4	1995-98	122cu.in. , DOHC Turbo 4G63 Mitsubishi	85.00	1.20	3.33	AS8120	4 Cyl.	STD
						1.50	3.43	AS8120010		0.50
						2.80	2.67	AS8120020		0.75
								AS8120030		1.00
								AS8120040		1.50
								AS8121		STD
								AS8121010		0.25
		4	2009-11	122cu.in. Vin:A World Engine	86.00	1.20	3.33	AS8122	4 Cyl.	STD
						1.20	3.58	AS8122010		0.50
						2.00	2.79	AS8122020		0.75
								AS8122030		1.00
146cu. in.		4	1992-93	"T"	86.50	1.50	3.45	AS8123	4 Cyl.	STD
						1.50	3.45	AS8123010		0.50
						4.00	3.68	AS8123020		0.75
								AS8123030		1.00
								AS8123040		1.50
								AS8124		STD
								AS8124010		0.25
								AS8124020		0.50
								AS8124030		0.75
								AS8124040		1.00
		4		R18, R20 Renault	88.00	1.75	4.14	AS8125	4 Cyl.	STD
						2.00	3.96			
						4.00	4.24			
								AS8126		STD
								AS8126010		0.25
		4	2007-15	144cu.in. Vin:2 World Engine	88.00	1.20	3.33	AS8127	4 Cyl.	STD
						1.20	3.33	AS8127010		0.50
						2.00	2.79	AS8127020		0.75
								AS8127030		1.00
173cu. in.		6	1984		89.00	1.50	3.38	AS8128	6 Cyl.	STD
						2.00	3.99	AS8128010		0.25
						4.75	1.27	AS8128020		0.50
								AS8128030		0.75
								AS8128040		1.00
								AS8128050		1.50
								AS8129		STD
								AS8129010		0.50
								AS8129020		0.75
								AS8129030		1.00
								AS8129040		1.50
								AS8130		STD
								AS8130010		0.25
								AS8130020		0.50
								AS8130030		0.75
								AS8130040		1.00
								AS8130050		1.50

										
JEEP-EAGLE - INCLUDES AMERICAN MOTORS, CHRYSLER & WILLYS										
173cu. in.	6	1985-86	Shallow Oil Ring Groove	89.00	1.50	3.38		AS8131	6 Cyl.	STD
					2.00	3.99		AS8131010		0.50
					4.75	3.81		AS8131020		0.75
								AS8131030		1.00
								AS8131040		1.50
								AS8132		STD
								AS8132010		0.25
								AS8132020		0.50
								AS8132030		0.75
								AS8132040		1.00
								AS8132050		1.50
201cu. in.	6	1993-97		93.00	1.50	3.48		AS8133	6 Cyl.	STD
226cu. in.		1999-11	Vin: K		1.50	3.78		AS8133010		0.50
					3.00	3.94		AS8133020		0.75
								AS8133030		1.00
								AS8133040		1.50
								AS8134		STD
								AS8134010		0.25
								AS8134020		0.50
								AS8134030		0.75
								AS8134040		1.00
								AS8134050		1.50
182cu. in.	6	1988-93	Eagle, Renault	93.00	1.75	4.09		AS8135	6 Cyl.	STD
					1.75	4.11				
					3.50	4.24				
	8	1999-05	287cu.in. Vin: N	93.00	1.50	3.48		AS8136	8 Cyl.	STD
					1.50	3.78		AS8136010		0.25
					3.00	3.94		AS8136020		0.50
								AS8136030		0.75
								AS8136040		1.00
								AS8137		STD
								AS8137010		0.25
								AS8137020		0.50
								AS8137030		0.75
								AS8137040		1.00
304cu. in.	8	1971-81		95.25	2.00	4.47		AS8138	8 Cyl.	STD
					2.00	4.50		AS8138010		0.25
					4.75	1.27		AS8138020		0.50
								AS8138030		0.75
								AS8138040		1.00
								AS8138050		1.50
								AS8138060		2.00
								AS8138070		2.50
								AS8139		STD
								AS8139010		0.25
								AS8139020		0.50
								AS8139030		0.75
								AS8139040		1.00
								AS8139050		1.50
								AS8140		STD
								AS8140010		0.25
								AS8140020		0.50
								AS8140030		0.75
								AS8140040		1.00
								AS8140050		1.50
								AS8140060		2.00
								AS8140070		2.50

										
JEEP-EAGLE - INCLUDES AMERICAN MOTORS, CHRYSLER & WILLYS										
225 cu. in.		6	1966-71		95.25	2.00	4.47	AS8141	6 Cyl.	STD
232cu. in.			1966-83			2.00	4.50	AS8141010		0.25
258cu. in.			1971-90			4.75	1.27	AS8141020		0.50
								AS8141030		0.75
								AS8141040		1.00
								AS8141050		1.50
								AS8142		STD
								AS8142010		0.25
								AS8142020		0.50
								AS8142030		0.75
								AS8142040		1.00
								AS8142050		1.50
								AS8143		STD
								AS8143010		0.25
								AS8143020		0.50
								AS8143030		0.75
								AS8143040		1.00
								AS8143050		1.50
214cu. in.		6	1993-94		96.00	1.50	3.94	AS8144	6 Cyl.	STD
						1.50	3.73	AS8144010		0.25
						3.00	3.81	AS8144020		0.50
								AS8144030		0.75
								AS8144040		1.00
								AS8144050		1.50
								AS8145		STD
								AS8145010		0.50
								AS8145020		0.75
								AS8145030		1.00
								AS8145040		1.50
231cu. in.		6	2001-12 Vin:1 Wrangler		96.00	1.20	3.73	AS8146	6 Cyl.	STD
						1.50	3.73	AS8146010		0.10
						3.00	3.81	AS8146020		0.25
								AS8146030		0.50
								AS8146040		0.75
								AS8146050		1.00
								AS8146060		1.50
								AS8147		STD
								AS8147010		0.25
								AS8147020		0.50
								AS8147030		0.75
								AS8147040		1.00
350 cu. in.		8	1968-71		96.52	2.00	3.71	AS8148	8 Cyl.	STD
						2.00	4.57	AS8148010		0.25
						4.75	4.62	AS8148020		0.50
								AS8148030		0.75
								AS8148040		1.00
								AS8148050		1.50
								AS8149		STD
								AS8149010		0.25
								AS8149020		0.50
								AS8149030		0.75
								AS8149040		1.00
								AS8149050		1.50
								AS8150		STD
								AS8150010		0.50
								AS8150020		0.75
								AS8150030		1.00
								AS8150040		1.50
242cu. in.		6	1996-06 Vin:S Shallow Oil Ring Groove		98.43	1.50	4.29	AS8151	6 Cyl.	STD
						1.50	3.99	AS8151010		0.50
						4.00	3.94	AS8151020		0.75
								AS8151030		1.00
								AS8152		STD
								AS8152010		0.50
								AS8152020		0.75
								AS8152030		1.00
								AS8152040		1.50

										
JEEP-EAGLE - INCLUDES AMERICAN MOTORS, CHRYSLER & WILLYS										
150cu. in.	4	1996-02	L4 Vin: P	98.43	1.50	4.29		AS8153	4 Cyl.	STD
					1.50	3.99		AS8153010		0.50
					4.00	3.94		AS8153020		0.75
								AS8153030		1.00
								AS8153040		1.50
								AS8154		STD
								AS8154010		0.50
								AS8154020		0.75
								AS8154030		1.00
								AS8154040		1.50
150cu. in.	4	1983-95	Eagle	98.43	2.00	4.62		AS8155	4 Cyl.	STD
					2.00	4.65		AS8155010		0.25
					4.75	4.88		AS8155020		0.50
								AS8155030		0.75
								AS8155040		1.00
								AS8155050		1.50
								AS8156		STD
								AS8156010		0.25
								AS8156020		0.50
								AS8156030		0.75
								AS8156040		1.00
								AS8156050		1.50
								AS8157		STD
								AS8157010		0.25
								AS8157020		0.50
								AS8157030		0.75
								AS8157040		1.00
								AS8157050		1.50
								AS8157060		2.00
242cu. in.	6	1986-95		98.43	2.00	4.62		AS8158	6 Cyl.	STD
					2.00	4.65		AS8158010		0.25
					4.75	4.88		AS8158020		0.50
								AS8158030		0.75
								AS8158040		1.00
								AS8158050		1.50
								AS8158060		2.00
								AS8159		STD
								AS8159010		0.25
								AS8159020		0.50
								AS8159030		0.75
								AS8159040		1.00
								AS8159050		1.50
								AS8159060		2.00
								AS8160		STD
								AS8160010		0.25
								AS8160020		0.50
								AS8160030		0.75
								AS8160040		1.00
								AS8160050		1.50
								AS8160060		2.00
318cu. in.	8	1992-97	Shallow Oil Ring Groove	99.31	2.00	4.67		AS8161	8 Cyl.	STD
					2.00	4.70		AS8161010		0.50
					4.00	3.81		AS8161020		0.75
								AS8161030		1.00
								AS8161040		1.50
								AS8162		STD
								AS8162010		0.50
								AS8162020		0.75
								AS8162030		1.00
								AS8162040		1.50
								AS8163		STD
								AS8163010		0.50
								AS8163020		0.75
								AS8163030		1.00
								AS8163040		1.50

										
JEEP-EAGLE - INCLUDES AMERICAN MOTORS, CHRYSLER & WILLYS										
348cu. in.		8	2003-08	Hemi Vin: D,H,2	99.50	1.50	3.96	AS8164	8 Cyl.	STD
						1.50	4.24	AS8164010		0.25
						3.00	2.79	AS8164020		0.50
								AS8164030		0.75
								AS8164040		1.00
								AS8165		STD
								AS8165010		0.25
								AS8165020		0.50
								AS8165030		0.75
								AS8165040		1.00
								AS8165050		1.50
327 cu. in.		8	1966-68		101.60	2.00	4.78	AS8166	8 Cyl.	STD
						2.00	4.80	AS8166010		0.25
						4.75	4.88	AS8166020		0.50
								AS8166030		0.75
								AS8166040		1.00
								AS8166050		1.50
								AS8166060		1.75
								AS8166070		2.00
								AS8166080		2.50
								AS8167		STD
								AS8167010		0.25
								AS8167020		0.50
								AS8167030		0.75
								AS8167040		1.00
								AS8167050		1.50
								AS8167060		1.75
								AS8167070		2.00
								AS8168		STD
								AS8168010		0.13
								AS8168020		0.25
								AS8168030		0.50
								AS8168040		0.75
								AS8168050		1.00
								AS8168060		1.50
								AS8168070		1.75
								AS8168080		2.00
								AS8168090		2.50
360cu. in.		8	1998		101.60	1.50	3.96	AS8169	8 Cyl.	STD
						1.50	4.37	AS8169010		0.50
						4.00	3.48	AS8169020		0.75
								AS8169030		1.00
								AS8169040		1.50
								AS8170		STD
								AS8170010		0.25
								AS8170020		0.50
								AS8170030		0.75
								AS8170040		1.00
								AS8170050		1.50

										
JEEP-EAGLE - INCLUDES AMERICAN MOTORS, CHRYSLER & WILLYS										
151cu. in.		4	1980		101.60	2.00	4.78	AS8171	4 Cyl.	STD
						2.00	4.80	AS8171010		0.50
						4.75	4.88	AS8171020		0.75
								AS8171030		1.00
								AS8171040		1.50
								AS8172		STD
								AS8172010		0.50
								AS8172020		0.75
								AS8172030		1.00
								AS8172040		1.50
								AS8173		STD
								AS8173010		0.50
								AS8173020		0.75
								AS8173030		1.00
								AS8173040		1.50
								AS8173050		1.63
								AS8174		STD
								AS8174010		0.50
								AS8174020		0.75
								AS8174030		1.00
								AS8174040		1.50
								AS8174050		1.63
151cu. in.		4	1981	Shallow Oil Ring Groove	101.60	2.00	4.78	AS8175	4 Cyl.	STD
						2.00	4.80	AS8175010		0.50
						4.75	1.27	AS8175020		0.75
								AS8175030		1.00
								AS8176		STD
								AS8176010		0.50
								AS8176020		0.75
								AS8176030		1.00
								AS8176040		1.50
								AS8177		STD
								AS8177010		0.50
								AS8177020		0.75
								AS8177030		1.00
151cu. in.		4	1982-84	Shallow Oil Ring Groove	101.60	1.60	4.78	AS8178	4 Cyl.	STD
						2.00	4.80	AS8178010		0.50
						4.75	1.27	AS8178020		0.75
								AS8178030		1.00
								AS8178040		1.50
								AS8179		STD
								AS8179010		0.50
								AS8179020		0.75
								AS8179030		1.00
								AS8179040		1.50
								AS8180		STD
								AS8180010		0.50
								AS8180020		0.75
								AS8180030		1.00
								AS8180040		1.50
		8	2005-10	370cu.in.	103.00	1.50	4.09	AS8181	8 Cyl.	STD
						1.50	4.37	AS8181010		0.25
						3.00	3.18	AS8181020		0.50
								AS8181030		0.75
								AS8181040		1.00
								AS8181050		1.50

										
JEEP-EAGLE - INCLUDES AMERICAN MOTORS, CHRYSLER & WILLEYS										
360cu. in.	8	1971-91		103.63	2.00	4.88		AS8182	8 Cyl.	STD
					2.00	4.90		AS8182010		0.50
					4.75	4.75		AS8182020		0.75
								AS8182030		1.00
								AS8182040		1.50
								AS8183		STD
								AS8184		STD
								AS8184010		0.50
								AS8184020		0.75
								AS8184030		1.00
								AS8184040		1.50
401 cu. in.	8	1974-77		105.79	2.00	4.95		AS8185	8 Cyl.	STD
					2.00	4.98		AS8185010		0.75
					4.75	5.21		AS8185020		1.00
								AS8186		STD
								AS8187		STD
								AS8187010		0.75
JOHN DEERE										
	4	V4 Starting 730 & 830 Series		50.80	2.38	2.39		AS8201	4 Cyl.	STD
					2.38	2.41				
					4.75	2.41				
		285, 320, 325, 335, 345, F710, F725 Models w/ Kawasaki (twin)		74.00	1.20	2.92		AS8202	2 Cyl.	STD
					1.20	2.97		AS8202010		0.25
					3.00	2.79		AS8202020		0.50
								AS8202030		0.75
								AS8202040		1.00
33, 35, 36, 36A, 36B	4			82.55	3.18	3.89		AS8203	4 Cyl.	STD
					3.18	3.78		AS8203010		0.50
					4.75	1.27		AS8203020		1.50
								AS8204		STD
		L After S/N 624999		82.55	3.18	3.89		AS8205	2 Cyl.	STD
					3.18	3.78				
					4.75	1.27				
								AS8206		STD
	6	Hercules QXC3 5A, 9, 35		85.73	3.18	4.04		AS8207	6 Cyl.	STD
					3.18	3.89				
					3.18	3.89				
					4.75	1.27				
	4	115 40 Hi-Lo		88.90	2.38	4.19		AS8208	4 Cyl.	STD
		115 Series Gas			2.38	4.22				
		115 Gas 1010			2.38	4.22				
					4.75	1.27				
								AS8209		STD

										
JOHN DEERE										
				12A	88.90	3.18	3.96	AS8210	2 Cyl.	STD
				LA, LU Power Unit		3.18	3.66			
				LA, LU Power Unit		4.75	1.27			
				H, HN, HNH, HWH	90.49	3.18	4.01	AS8211	2 Cyl.	STD
						3.18	4.04			
						3.00	1.27			
						6.35	4.29			
	4			1010 Diesel From S/N 42000, 3 Ring Piston *	92.08	2.38	4.32	AS8212	4 Cyl.	STD
						2.38	4.09			
						4.75	2.39			
	4			HC145G	92.08	2.38	4.06	AS8213	4 Cyl.	STD
				145 45 Hi-Lo		2.38	4.09			
				145 Series Gas & Diesel Eng.		2.38	4.09			
				HA145 Gas & Diesel Eng.		4.75	4.62			
				145 Gas 2010						
				550, 660 Gas & Diesel Eng.				AS8214	4 Cyl.	STD
				1010 Diesel To S/N 41999, 4 Ring Piston *						
	6			217 Diesel, Gas, LPG 55, 65, 96	92.08	2.38	4.32	AS8215	6 Cyl.	STD
				217 Series Gas, LPG & Diesel Eng.		2.38	4.09			
						2.38	4.09			
						4.75	4.34			
	4			5A, 35	95.25	3.18	4.17	AS8216	4 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	1.27			
				HC165 Gas 45 Hi-Lo 4 Ring Piston	98.43	2.38	4.62	AS8217	2 Cyl.	STD
				55, 95, 105 4 Ring Piston		2.38	3.99			
				248 Diesel, Gas, LPG 55, 95M, 105		2.38	3.99			
				165 Series Gas & Diesel Eng.		4.75	2.62			
				248 Series Gas, LPG & Diesel						
				165 Diesel 2010, To S/N 29018						
				55, 95, 105 3 Ring Piston	98.43	2.38	4.62	AS8218	2 Cyl.	STD
				165 Diesel 2010, From S/N 29019, 3 Ring * Piston		2.38	3.99			
						4.75	4.45			
				3010 Gas	101.60	2.38	4.78	AS8219	2 Cyl.	STD
				4010 Gas		2.38	4.80			
						2.38	4.80			
						6.35	4.88			
						6.35	4.24			
				40, 40C, 40S, 40 Crawler, 320, 330	101.60	2.38	4.78	AS8220	2 Cyl.	STD
						2.38	4.80			
						2.38	4.80			
						6.35	4.88			
				40, 40 Crawler, M, MC, MI, MT	101.60	4.00	4.39	AS8221	2 Cyl.	STD
						4.00	4.11			
						3.18	4.42			
						6.35	4.88			

										
JOHN DEERE										
				241 Series 4 Cyl.; 360 Series 6 Cyl.	107.95	2.38	5.05	AS8222	2 Cyl.	STD
				241 Gas or LPG, 3020		2.38	5.08			
				4 Cyl. 360 Gas or LPG, 4020, 4230 6 Cyl.						
				362 4230		4.75	1.27			
				HA341G 105 4 Cyl. & 6 Cyl.	107.95	2.38	5.05	AS8223	2 Cyl.	STD
				HA341G		2.38	5.08			
				420, 430, 440		2.38	5.08			
				227 Gas, 270 Diesel 3020, JD500		6.35	5.16			
				341 Gas, 404 Diesel, 4020, JD600						
	6			401DT Diesel 9000 Turbo	111.76	3.00	4.47	AS8224	6 Cyl.	STD
						2.38	4.50			
						2.38	4.50			
						4.75	6.20			
				B, BI, BN, BO, BR, After S/N 32900 BW S/N 60000-201000	114.30	4.75	4.83	AS8225	2 Cyl.	STD
						4.75	4.85	AS8225010		1.13
						4.75	4.85	AS8225020		2.25
						4.75	5.03			
				B, BN, BW, After S/N 200999	119.06	4.75	4.98	AS8226	2 Cyl.	STD
						4.75	5.00	AS8226010		1.13
						4.75	5.00	AS8226020		2.25
						4.75	5.00			
						8.00	2.97			
				A, AH, AI, AN, ANH, AO, AR, AW, AWH, Gen. Purp.; 60H, 60 Std.	139.70	6.35	5.41	AS8227	2 Cyl.	STD
						6.35	5.44			
						6.35	5.44			
						6.00	6.53			
						6.35	5.44			
				60	139.70	4.75	5.41	AS8228	2 Cyl.	STD
				A, AO, AR, AN, AW, 60, Own 60		4.75	8.05	AS8228010		1.00
						4.75	5.44	AS8228020		2.25
						4.75	5.44			
						8.00	5.61			
				620, 620H, 620S, 6200, 630, 630H, 630S 6 Ring Piston	139.70	3.18	5.41	AS8229	2 Cyl.	STD
						3.18	5.44	AS8229010		1.13
						3.18	5.44			
						6.35	5.61			
						3.18	5.44			
						6.35	5.44			
				R Diesel	146.05	3.18	5.87	AS8230	2 Cyl.	STD
				R, Own R Diesel		3.18	5.89	AS8230010		3.13
						3.18	5.89			
						3.18	5.89			
						3.18	5.89			
						6.00	6.91			
						6.35	5.89			
				70	149.23	3.18	5.97	AS8231	2 Cyl.	STD
				70 Gas & LPG, Own 70		3.18	5.99	AS8231010		1.13
						3.18	5.99	AS8231020		2.25
						3.18	5.99	AS8231030		3.00
						6.35	3.45			

										
JOHN DEERE										
				Model 70 M&W Sleeve Piston #AP140	152.40	3.18	6.07	AS8232	2 Cyl.	STD
						3.18	6.10			
						3.18	6.10			
						4.75	3.51			
						6.35	6.10			
				720, 720H, 720S, 730, 730H, 730S Gas	152.40	3.18	6.07	AS8233	2 Cyl.	STD
						3.18	6.10	AS8233010		1.13
						3.18	6.10			
						6.35	6.10			
						3.18	6.10			
						6.35	6.27			
				70D, 70DH, 70DS, 720D, 720DS To S/N 7214899	155.58	3.18	6.20	AS8234	2 Cyl.	STD
				70 Gas or LPG 70, 70H, 70S		3.18	6.22	AS8234010		1.13
				80, 820 Diesel To S/N 8203099		3.18	6.22	AS8234020		3.00
						3.18	6.22			
						6.35	3.58			
						6.35	6.22			
				720D, 720DH, 720DS, 730D, 730H, 730DS From S/N 7214900	155.58	4.00	6.12	AS8235	2 Cyl.	STD
				820 Diesel From S/N 8203100; 830, 840 Diesel		3.18	6.22			
						3.18	6.22			
						3.18	6.22			
						6.35	3.58			
						6.35	6.22			
				G, GH, GM, GN, GW	155.58	6.35	6.20	AS8236	2 Cyl.	STD
				70 Hi Crop All Fuel		6.35	6.22	AS8236010		1.13
						6.35	6.22	AS8236020		3.13
						6.35	6.22			
						6.35	6.40			
KAISER										
	6	1947-55	Cont. Kaiser All Models	84.14	2.38	3.99		AS8237	6 Cyl.	STD
						2.38	4.01	AS8236010		1.00
						4.00	4.39			
						4.00	4.01			
KERMATH										
IXV	4		Hercules Engine Sea Bird	82.55	3.18	3.89		AS8301	4 Cyl.	STD
						3.18	3.78	AS8301010		0.50
						4.75	1.27	AS8301020		1.50
								AS8302		STD
	6		Herc. JXA Sea Eagle	85.73	3.18	4.04		AS8303	6 Cyl.	STD
						3.18	3.89			
						3.18	3.89			
						4.75	1.27			
	6		Herc. QXLD Prince	87.31	2.38	4.11		AS8304	6 Cyl.	STD
						3.18	3.94			
						4.75	1.27			
						4.75	4.14			

										
KERMATH										
		4		Herc. OOB Sea Dog	95.25	3.18	4.17	AS8305	4 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	1.27			
		6		Herc. JXD Sea Rover	101.60	3.18	4.39	AS8306	6 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						4.75	4.88			
		4		Herc. OOC Sea Man	101.60	3.18	4.39	AS8307	4 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						4.75	4.88			
KIA										
	1100	4		Pride	68.00	1.20	2.92	AS8401	4 Cyl.	STD
						1.50	2.62	AS8401010		0.25
						3.00	2.79	AS8401020		0.50
								AS8401030		0.75
								AS8401040		1.00
		4			71.00	1.20	3.12	AS8402	4 Cyl.	STD
						1.50	3.33	AS8402010		0.25
						3.00	1.14	AS8402020		0.50
								AS8402030		0.75
								AS8402040		1.00
								AS8402050		1.50
G4EA	1341	4		2010-16 1.3 L	71.50	1.20	3.12	AS8403	4 Cyl.	STD
						1.20	2.97	AS8403010		0.50
						2.00	2.79	AS8403020		1.00
				2003-On49cu.in Rio	72.00	1.20	2.92	AS8404	3 Cyl.	STD
						1.20	3.10	AS8404010		0.25
						2.50	2.67	AS8404020		0.50
								AS8404030		0.75
								AS8404040		1.00
	1493	4		2000-06 DC DOHC A5D Mazda w/2.5mm oil grv	75.50	1.20	2.92	AS8405	4 Cyl.	STD
						1.20	2.97	AS8405010		0.50
						2.50	3.56	AS8405020		0.75
								AS8405030		1.00
								AS8405040		1.50
	1599	4		2006-12 ALPHA II G4ED DOHC w/2.00mm oil	76.50	1.20	3.12	AS8406	4 Cyl.	STD
						1.20	3.48	AS8406010		0.50
						2.00	2.92	AS8406020		0.75
	1599	4		2003-08 Rio DOHC	76.50	1.20	3.12	AS8407	4 Cyl.	STD
						1.20	3.48	AS8407010		0.50
						2.50	2.92	AS8407020		0.75
								AS8407030		1.00
G4FC, G4FJ GAMMA	1591	4		2008-16 FORTE, RAY, RIO, SOUL	77.00	1.20	3.12	AS8408	4 Cyl.	STD
						1.20	3.38	AS8408010		0.50
						2.00	2.92	AS8408020		1.00
	1599	4		2003-05 Rio A6D DOHC	78.00	1.20	3.33	AS8409	4 Cyl.	STD
						1.20	3.23	AS8409010		0.50
						2.50	2.92	AS8409020		0.75
								AS8409030		1.00

										
KIA										
	1597	4	1994-97	Sephia SOHC DOHC Mazada B6	78.00	1.50	2.97	AS8410	4 Cyl.	STD
						1.50	3.38	AS8410010		0.25
						4.00	3.30	AS8410020		0.50
								AS8410030		0.75
								AS8410040		1.00
								AS8410050		1.50
								AS8411		STD
								AS8411010		0.25
								AS8411020		0.50
								AS8411030		0.75
								AS8411040		1.00
								AS8411050		1.50
								AS8412		STD
								AS8412010		0.25
								AS8412020		0.50
								AS8412030		0.75
								AS8412040		1.00
								AS8412050		1.50
	1600	4	1994-98	5BP, Sephia SOHC, DOHC	78.00	1.50	3.35	AS8413	4 Cyl.	STD
						1.50	3.38	AS8413010		0.25
						3.00	3.30	AS8413020		0.50
								AS8413030		0.75
								AS8413040		1.00
								AS8413050		1.50
								AS8414		STD
	2497	6	1999-OnK5,	DOHC, Carnival 24V	80.00	1.20	3.33	AS8415	6 Cyl.	STD
						1.50	3.35	AS8415010		0.50
						2.50	2.92			
G4NBB	1999	4	2012-16	DOHC "NU SERIES" SOUL, FORTE, SPORTAGE, OPTIMA	81.00	1.00	3.33	AS8416	4 Cyl.	STD
						1.20	3.15	AS8416010		1.25
						2.00	2.54	AS8416020		2.50
	1975	4	2005-10	G4GF, DOHC w/2.0mm Oil Ring	82.00	1.20	3.12	AS8417	4 Cyl.	STD
						1.20	3.48	AS8417010		0.50
						2.00	2.92	AS8417020		1.00
	1839	4	1994-97		83.00	1.50	3.20	AS8418	4 Cyl.	STD
						1.50	3.25	AS8418010		0.25
						3.00	3.30	AS8418020		0.50
								AS8418030		1.00
								AS8419		STD
								AS8419010		0.25
								AS8419020		0.50
								AS8419030		0.75
								AS8419040		1.00
								AS8419050		1.50
								AS8420		STD

										
KIA										
	2000	4	1994-02	3FE, Sportage	86.00	1.50	3.45	AS8421	4 Cyl.	STD
						1.50	3.78	AS8421010		0.50
						4.00	3.68	AS8421020		0.75
								AS8421030		1.00
								AS8421040		1.50
								AS8422		STD
								AS8422010		0.25
								AS8422020		0.50
								AS8422030		0.75
								AS8422040		1.00
								AS8422050		1.50
								AS8423		STD
								AS8423010		0.25
								AS8423020		0.50
								AS8423030		0.75
								AS8423040		1.00
								AS8423050		1.50
								AS8424		STD
	2351	4	2000-05	Vin:S G4JS, L4	86.50	1.20	3.33	AS8425	4 Cyl.	STD
						1.50	3.45	AS8425010		0.50
						2.80	2.79	AS8425020		0.75
								AS8425030		1.00
								AS8425040		1.50
	2656	6		G6BA DOHC Rondo, Sportage	86.68	1.20	3.33	AS8426	6 Cyl.	STD
						1.20	3.91	AS8426010		0.50
						2.50	3.05	AS8426020		0.75
G6A5	2656	6	2007-15	DOHC KEE, OPITMA, RONDO, SPORTAGE	86.70	1.20	3.33	AS8426030		1.00
						1.20	3.78	AS8427	6 Cyl.	STD
						2.00	3.05	AS8427010		0.50
	2359	4	2006-15	G4KC, G4KJ DOHC Forte, Optima, Sportage	88.00	1.20	3.33	AS8428	4 Cyl.	STD
						1.20	3.33	AS8428010		0.50
						2.00	2.79	AS8428020		0.75
								AS8428030		1.00
	3342	6	2008-15	G6DB G6DG V6 Cadenza, Sorento	92.00	1.20	3.33	AS8429	6 Cyl.	STD
			2011-15	DOHC, G6DC V-6 Sedona, Sorento		1.20	3.81	AS8429010		0.50
						2.00	2.92	AS8429020		0.75
								AS8429030		1.00
	3497	6	2002-06	DOHC, G6CU V-6	93.00	1.50	3.48	AS8430	6 Cyl.	STD
						1.50	3.78	AS8430010		0.50
						3.00	2.79	AS8430020		0.75
								AS8430030		1.00
								AS8431		STD
								AS8431010		0.50
								AS8431020		0.75
								AS8431030		1.00
		4		K2700 Diesel Pregio, Besta J2 SOHC	94.50	2.00	3.58	AS8432	4 Cyl.	STD
						2.00	4.17	AS8432010		0.50
						3.00	3.45			
	3778	6	2007-10	DOHC Amanti, Borrego, Sedona, Sorento	96.00	1.20	3.12	AS8433	6 Cyl.	STD
						1.20	3.81	AS8433010		0.50
						2.00	2.92	AS8433020		0.75
								AS8433030		1.00
	3455	4		K-3500 w/Mazda Diesel SL	100.00	2.50	4.34	AS8434	4 Cyl.	STD
						2.00	4.37	AS8434010		0.50
						4.50	4.14			

										
KIA										
	4			K3600 Diesel	100.00	2.00	3.58	AS8435	4 Cyl.	STD
						2.00	4.37			
						3.00	4.14			
KMZ, DNEPR										
	4			L654	66.68	2.38	3.35	AS8501	4 Cyl.	STD
						2.38	3.15			
						4.75	1.27			
								AS8502		STD
								AS8502010		0.50
								AS8502020		0.75
								AS8502030		1.00
				CH18, 20, 22; CV16, 18, 20, 22, Twins	77.00	1.50	3.10	AS8503	1 Cyl.	STD
						1.50	3.33			
						3.00	3.56			
				KT17 Twin, M-18	79.38	1.60	3.76	AS8504	2 Cyl.	STD
						1.60	3.43			
						4.00	3.30			
				CH25, CH26, CH732, CH740, CH750, Twin CV25, CV26, CV730, CV740, CV750	83.00	1.50	3.20	AS8505	2 Cyl.	STD
						1.50	3.25	AS8505010		0.25
						3.00	3.30	AS8505020		0.50
				K301S K532S Use 2 sets	85.73	2.00	4.04	AS8506	1 Cyl.	STD
						2.00	4.06	AS8506010		0.25
						4.75	1.27	AS8506020		0.75
								AS8507		STD
								AS8507010		0.25
				Command Engs. 11, 12 1/2, 14 H.P.	87.00	1.50	3.61	AS8508	1 Cyl.	STD
						1.50	3.63	AS8508010		0.25
						3.00	3.30	AS8508020		0.50
				K321S K592 Use 2 sets	88.90	2.38	4.19	AS8509	1 Cyl.	STD
						2.00	4.22	AS8509010		0.50
						4.75	1.27			
							4.17	AS8510		STD
							4.19	AS8510010		0.25
							3.43			
				K341	95.25	2.38	4.47	AS8511	1 Cyl.	STD
						2.38	4.50	AS8511010		0.50
						4.75	1.27	AS8511020		0.75

          											
KOMATSU											
8A2250					66.75	2	2.26	1			
Caterpillar					66.75	2	2.26	2			
		1			66.75	2	2.26	3	AS8601		
					66.75	2	2.26	O1			
					66.75	4	2.65	O2			
4D76		1			76	2.5		1			
					76	2		2	AS8602		
					76	5		O			
3D84					84	2	3.55	1			
Caterpillar		1			84	2	3.7	2	AS8603		
					84	4	2.8	O			
4D92	2610	4		Bulldozer	92	3	4	1			
	1300	2		D20	92	3	4	2	AS8604		
					92	6	3(4.5)	O			
2D92											
4D94E		1			94	2	3.6	1			
					94	2	4	2	AS8605		
					94	3	2	O			
4D94		4			94	2.9	3.8	1			
					94	2.5	4.1	2	AS8606		
					94	5	3.1	O			
4D95		4			95	2.2	4	1			
					95	2.2	4	2	AS8607		
					95	4	2.5	O			
4D95		4			95	2	4	1			
					95	2	4	2	AS8608		
					95	4	2.5	O			
S4D95		4			95	2.2	4	1			
					95	2	4	2	AS8609		
					95	4	2.5	O			
S6D95	4890	6			95	2.5	3.7	1			
					95	2	4	2	AS8610		
					95	4	2.5	O			
S6D95		6			95	2.5	3.7	1			
					95	2.2	4	2	AS8611		
					95	4	4.15	O			
S6D95	4890	6			95	2.5	3.8	1			
					95	2.2	4.1	2	AS8612		
					95	4	2.5	O			
S6D95		6			95	2.5	3.7	1			
					95	2.2	4	2	AS8613		
					95	4	2.5	O			

          											
KOMATSU											
6D95		6			95	2	4.3	1	AS8614		
					95	2	4.1	2			
					95	4	3	O			
S6D102		1			102	2.85	4.1	1	AS8615		
					102	2.35	4.1	2			
					102	4	3.1	O			
S4D105		4			105	3	4.2	1	AS8616		
					105	2.5	4.6	2			
					105	5	3.5	O			
6D105		6			105	3	4.2	1	AS8617		
					105	2.5	4.5	2			
					105	5	3.6	O			
S6D105	6490	6			105	3	4.3	1	AS8618		
					105	2.5	4.5	2			
					105	5	3	O			
S6D105	6490	6			105	3	4.2	1	AS8619		
					105	2.5	4.5	2			
					105	5	4.7	O			
4D105	3980	4		Bulldozer D30	105	3	4.2	1	AS8620		
					105	2.5	4.5	2			
					105	5	4.7	O			
4D105(NEW)	4330	4			105	3	4.2	1	AS8621		
					105	2.5	4.5	2			
					105	5	3.6(4.7)	O			
6D108		6			108	2.5	4.35	1	AS8622		
					108	2.55	4.35	2			
					108	4	4.15	O			
S6D110		6			110	3	4.6	1	AS8623		
					110	2.5	4.6	2			
					110	5	3.6	O			
4D120-A	7240	4		Bulldozer D50	120	4	4.2	1	AS8624		
					120	4	4.2	2			
					120	4	4.2	3			
					120	5.5	4.2	O1			
					120	5.5	4.2	O2			



KOMATSU											
S4D120	7240	4		Bulldozer D50AP	120	3.5	4.8	1	AS8625		
					120	2.5	5	2			
					120	5.5	3.9(5.7)	O			
S6D125		6			125	3.05	4.3	1	AS8626		
					125	3.05	4.55	2			
					125	4	2.4	O			
					125	2.4	5	1	AS8627		
					125	2.4	5	2			
4D130	8490	4			125	4	3.4	O	AS8628		
					130	3.5	5.1	1			
					130	2.5	5.4	2			
NH220		6			130	5.5	4.2(5.8)	O	AS8629		
					130.18	3.78	4.87	1			
					130.18	3.61	4.85	2			
NH220		6			130.18	6.12	6	O	AS8630		
					130.18	3.78	4.87	1			
					130.18	3.61	4.82	2			
					130.18	3.61	4.82	3			
					130.18	6.12	5.92	O			
NT855		6			139.7	3.59	5.23	1	AS8631		
					139.7	2.87	5.18	2			
					139.7	2.87	5.18	3			
					139.7	4.75	3.96	O			
6D140		6			140	2.4	5.4	1	AS8632		
					140	2.4	5.4	2			
					140	4	3	O			
S6D140		1			140	2.4	5.4	1	AS8633		
					140	2.4	5.4	2			
					140	4	5.4	O			
					140	2.4	5.4	1	AS8634		
					140	2.4	5.4	2			
S6D140					140	4		O	AS8635		
					140	2.4	5.4	1			
					140	2.4	5.4	2			
					140	4		O			

  CC  CYL/ENG       PART #  CYL/SET 									
KOMATSU									
4D150	14130	4	Bulldozer D120	140	3	5.4	4	AS8636	
				140	6	5.4	O1		
				140	6	5.4	O2		
				150	4.5	5.8	1	AS8637	
				150	4.5	5.8	2		
				150	4.5	5.8	3		
6D150 DE DF	21200	6		150	6	5.8	O1	AS8638	
				150	6	5.8	O2		
4D155	12840	4	Bulldozer D8	155	3.5	6.2	1	AS8639	
				155	3.5	6.2	2		
				155	3.5	6.2	3		
				155	6	6.2	O		
6D155	19260	4	Bulldozer D-250					AS8640	
S6D155	19260	6	Bulleozer	155	4	6.4	1	AS8641	
				155	3.5	6.2	2		
				155	6	4.5(5.7)	O1		
				155	5	6.2	O2		
12N/D155	19260	6	Bulldozer	155	3.68	6.06	1	AS8642	
				155	3.55	6.06	2		
				155	4.75	4(5)	O		



										
KUBOTA										
	4		V1702 Diesel Melroe Bobcat	82.00	2.50	3.86		AS8512	4 Cyl.	STD
					2.00	3.89				
					5.00	4.34				
LADA-RUSSIAN										
1300	4		1987-OnSamara	76.00	1.50	3.45		AS8513	4 Cyl.	STD
					2.00	3.48		AS8513010		0.41
					4.00	3.94		AS8513020		0.81
								AS8514		STD
								AS8514010		0.41
								AS8514020		0.50
								AS8514030		0.81

										
LADA-RUSSIAN										
		4		1200, 1300, 1500	76.00	1.50	3.45	AS8515	4 Cyl.	STD
						2.00	3.48	AS8515010		0.41
						4.00	3.94	AS8515020		0.61
								AS8515030		0.81
								AS8515040		1.00
								AS8515050		1.60
								AS8516		STD
								AS8516010		0.25
								AS8516020		0.41
								AS8516030		0.50
								AS8516040		0.61
								AS8516050		0.75
								AS8516060		0.81
								AS8516070		1.00
								AS8516080		1.50
								AS8516090		1.60
	1600	4		2121 NIVA 4WD	79.00	1.50	3.40	AS8517	4 Cyl.	STD
						2.00	3.43	AS8517010		0.50
						4.00	3.81	AS8517020		1.00
								AS8518		STD
								AS8518010		0.41
								AS8518020		0.50
								AS8518030		0.61
								AS8518040		0.81
								AS8518050		1.00
								AS8518060		1.50
								AS8518070		1.60
	1500	4		1987-OnSamara	82.00	1.50	3.23	AS8519	4 Cyl.	STD
						2.00	3.25	AS8519010		0.41
						4.00	4.24	AS8519020		0.81
								AS8520		STD
								AS8520010		0.41
								AS8520020		0.81
	1499	4		2000-OnNatacha, Sagona, Samara	82.00	1.50	3.23	AS8521	4 Cyl.	STD
						2.00	3.25	AS8521010		0.41
						4.00	3.43	AS8521020		0.81
	1905			1999-OnDiesel XUD9SD	83.00	3.00	3.61	AS8522	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
	1905			1993-OnDiesel XUD9A	83.00	2.00	3.61	AS8523	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
	1800	4		1993-OnAleko	85.00	1.50	3.43	AS8524	4 Cyl.	STD
						2.00	4.04			
						3.00	3.30			
LANCIA										
841 G.000	2387			2003-09 2.4L JTD Turbo Diesel Thesis	87.00	2.00	3.53	AS8525	1 Cyl.	STD
						2.00	3.68			
						2.00	2.87			
LAUSON-TECUMSEH										
				HH100	80.96	2.38	3.71	AS8526	1 Cyl.	STD
						2.38	3.23			
						4.75	4.39			

										
LAUSON-TECUMSEH										
				HH80, 100, 140; VH80, 100	84.14	2.38	3.99	AS8527	1 Cyl.	STD
						2.38	4.01	AS8527010		0.75
						4.75	1.27			
				HH80, 100, 120, 150, 160	88.90	2.38	4.19	AS8528	1 Cyl.	STD
						2.38	3.66			
						4.75	3.99			
LE ROI										
				200 High Pressure Cyl.	47.63	2.38	2.24	AS8529	1 Cyl.	STD
						2.38	2.26			
						3.18	1.96			
	4			K, KF, KP, RYP, W, WC, WCP, WCW, WF, WP, WR, WRF, WRP, WRW, WW, WW3, Y, YC, YCP, YF, YP, YR, YRF, YRP, P2677D Piston #8-170 or 8-122-1	69.85	3.18	3.25	AS8530	4 Cyl.	STD
						3.18	3.23			
						4.75	3.81			
D133	4				82.55	3.18	3.89	AS8531	4 Cyl.	STD
						3.18	3.78	AS8531010		0.50
						4.75	1.27	AS8531020		1.50
								AS8532		STD
	4			D176	95.25	3.18	4.17	AS8533	4 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	1.27			
				300 Low Pressure Cyl.	101.60	3.18	4.39	AS8534	1 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						4.75	4.37			
	4			D201, D226	101.60	3.18	4.39	AS8535	4 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						4.75	4.88			
				400 Low Pressure Cyl.	114.30	3.18	4.83	AS8536	1 Cyl.	STD
				880A High Pressure Cyl.		3.18	4.85			
						3.18	4.85			
						4.75	4.85			
LEXUS										
2JZGE, 2JZGTE	2997	6	1992-04	2JZGE, 2JZGTE	86.00	1.50	3.86	AS8537	6 Cyl.	STD
						1.50	3.78	AS8537010		0.25
						4.00	3.43	AS8537020		0.50
								AS8537030		0.75
								AS8537040		1.00
ES250, 2VZFE	2507	6	1990-91	ES250, 2VZFE	87.50	1.50	3.25	AS8538	6 Cyl.	STD
						1.50	3.28	AS8538010		0.50
						3.00	2.67	AS8538020		0.75
								AS8538030		1.00
LS400, SC400, 1UZFE	3969	8	1990-98	LS400, SC400, 1UZFE	87.50	1.50	3.25	AS8539	8 Cyl.	STD
						1.50	3.28	AS8539010		0.50
						3.00	2.67	AS8539020		0.75
								AS8539030		1.00
3VZ-F, 3VZFE, ES300	2959	6	1992-93	3VZFE, ES300	87.50	1.50	3.25	AS8540	6 Cyl.	STD
						1.50	3.28	AS8540010		0.25
						4.00	2.92	AS8540020		0.50
								AS8540030		0.75
								AS8540040		1.00
								AS8541		STD

										
LEXUS										
1MZFE	2959	6	1994-05	1MZFE, ES300	87.50	1.20	3.33	AS8542	6 Cyl.	STD
						1.20	3.33	AS8542010		0.25
						3.00	2.67	AS8542020		0.50
								AS8542030		0.75
								AS8542040		1.00
								AS8543		STD
GS430, LS430	4293	8	2001-10	3UZFE GS430, LS430 DOHC 32V	91.00	1.20	3.53	AS8544	8 Cyl.	STD
						1.20	3.81			
						3.00	2.92			
2GRFE	3456	6	2007-12	2GRFE DOHC ES350 RX350	94.00	1.20	3.12	AS8545	6 Cyl.	STD
						1.20	3.35	AS8545010		0.50
						2.00	3.05	AS8545020		0.75
								AS8545030		1.00
2UZFE, LX470	4700	8	1999-06	2UZFE, LX470	94.00	1.50	3.45	AS8546	8 Cyl.	STD
						1.50	3.84	AS8546010		0.25
						4.00	2.92	AS8546020		0.50
								AS8546030		0.75
								AS8546040		1.00
LX450, 1FZFE	4477	6	1996-97	LX450, 1FZFE	100.00	1.75	3.96	AS8547	6 Cyl.	STD
						2.00	3.99	AS8547010		0.25
						4.00	3.18	AS8547020		0.50
								AS8547030		0.75
								AS8547040		1.00
LYCOMING										
		6			88.90	3.18	3.96	AS8601	6 Cyl.	STD
						3.18	3.66			
						3.18	3.66			
						4.75	4.24			
		6			92.08	3.18	3.84	AS8602	6 Cyl.	STD
						3.18	3.86			
						3.18	3.86			
						4.75	1.27			
		12			92.08	2.38	4.06	AS8603	12 Cyl.	STD
						3.18	3.86			
						3.18	3.86			
						4.75	1.27			
								AS8604		STD
		6			95.25	3.18	3.91	AS8605	6 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	4.45			



MWM Diesel engine											
D985		1			70	2.45	3.1	1			
					70	2.5	3.1	2	AS9701		
					70	4	3.4	O			
					85	3	3.6	1			
D987,LKS		1			85	3	3.6	2	AS9702		
					85	5	3.8	O			
		1			93	2.38	3.9	1			
					93	2	3.9	2	AS9703		
					93	3	2.6	O			
					98	3	4.2	1			
D222		1			98	3	4.2	2	AS9704		
					98	3	4.2	3			
					98	5	4.2	O			
					102	3	4.2	1			
D893 D229		1			102	2.5	4.3	2	AS9705		
					102	4	3.2	O			
					102	2.85	4.3	1			
D225		1			102	2	4.3	2	AS9706		
					102	2	4.3	3			
					102	4	3	O			
		1			103	2.9	4.25	1			
					103	2.5	4.3	2	AS9707		
					103	4	2.6	O			
					105	3		1			
D226-Z		1			105	2		2	AS9708		
					105	2		3			
					105	4		O			
					105	2.9		1			
D226		1			105	2		2	AS9709		
					105	4		3			

										
M.G.										
	1098	4	1963-66	1100 MG-Midget, MK II	64.57	1.60	3.00	AS8701	4 Cyl.	STD
						1.60	3.02	AS8701010		0.25
						1.60	3.02	AS8701020		0.50
						3.00	1.27	AS8701030		0.75
								AS8701040		1.00
								AS8701050		1.50
								AS8701060		2.00
								AS8701070		2.50
								AS8701080		32.00
								AS8702		STD
								AS8702010		0.25
								AS8702020		0.50
								AS8702030		0.75
								AS8702040		1.00
								AS8702050		1.50
		4		TC, TD, w/Covmo Piston #12387	69.02	1.60	2.97	AS8703	4 Cyl.	STD
						1.60	3.00			
						4.00	3.68			
	1275	4	1967-74	Midget Mark III, 1300 Hepolite Piston 20394, 20747, 20814	70.61	1.60	3.30	AS8704	4 Cyl.	STD
						1.60	3.33	AS8704010		0.50
						1.60	3.33	AS8704020		0.75
						4.00	3.43	AS8704030		1.00
								AS8704040		1.50
								AS8705		STD
								AS8705010		0.50
								AS8705020		0.75
								AS8705030		1.00
								AS8705040		1.50
	1489	4	1956-61	'A' Series Midget, Magnette ZA, Mark III, MGA 1500	73.03	1.60	3.10	AS8706	4 Cyl.	STD
						1.60	3.12	AS8706010		0.50
						1.60	3.12	AS8706020		0.75
						4.00	3.30	AS8706030		1.00
								AS8706040		1.50
	1500	4	1975-79	Midget Mark III	73.66	1.60	3.20	AS8707	4 Cyl.	STD
						1.60	3.23	AS8707010		0.25
						4.00	3.56	AS8707020		0.50
								AS8707030		0.75
								AS8707040		1.00
								AS8707050		1.50
								AS8708		STD
								AS8708010		0.50
								AS8708020		0.75
								AS8708030		1.00
MK11	1275	4	1967-73	MIDGET, MK11, 1300 A SERIES	70.62	1.50	2.95	AS8709	4 Cyl.	STD
			1982-87	A+ SERIES MG METRO		1.50	2.97	AS8709010		0.50
						3.00	3.30	AS8709020		1.00
								AS8709030		1.50
	1798	4	1963-71	MGB Series, High Comp. 4 Ring Piston	80.26	1.60	3.68	AS8710	4 Cyl.	STD
	1800					1.60	3.71	AS8710010		0.75
						1.60	3.71			
						4.00	3.94			
	1798	4	1972-79	Engs. MGB w/Hepolite Piston, Low Comp. 3 Ring Piston	80.26	1.60	3.68	AS8711	4 Cyl.	STD
	1800					1.60	3.71	AS8711010		0.75
						4.00	3.94			

										
MACK										
	6			EN253 FO	88.90	3.18	3.96	AS8801	6 Cyl.	STD
				FO		3.18	3.66			
						3.18	3.66			
						4.75	1.27			
						4.75	3.99			
	6			CU 5 Ring Piston	98.43	3.18	4.29	AS8802	6 Cyl.	STD
				EN354		3.18	4.32			
						3.18	4.32			
						4.75	4.88			
						4.75	4.32			
	6			BC, CE, EN330 Engs. 4 Ring Piston	101.60	3.18	4.39	AS8803	6 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						4.75	4.88			
	6			BC, CE, EN300 Engs. 5 Ring Piston	101.60	3.18	4.39	AS8804	6 Cyl.	STD
				EN405 Late 5 Ring Piston		3.18	4.11			
				EN415		3.18	4.11			
				FU 5 Ring Piston		4.75	4.88			
						4.75	4.37			
	6			EN431A	104.78	2.38	4.93	AS8805	6 Cyl.	STD
						3.18	4.52	AS8805010		0.50
						3.18	4.52			
						4.75	5.00			
						4.75	4.52			
	6			BJ, BK, CT Engs. 4 Ring Piston	114.30	3.18	4.83	AS8806	6 Cyl.	STD
						3.18	4.85			
						3.18	4.85			
						4.75	5.08			
	6			CT 5 Ring Piston	114.30	3.18	4.11	AS8807	6 Cyl.	STD
				EN525 5 Ring Piston		3.18	4.85			
						3.18	4.85			
						4.75	5.08			
						4.75	4.85			
								AS8808		STD
MASSEY-FERGUSON										
N62	4			(Continental Engine) Pony	60.33	2.38	2.79	AS8901	4 Cyl.	STD
						2.38	2.82			
						4.75	1.27			
								AS8902		STD
								AS8902010		0.75
	4			F124 Cont. 20, 21 Colt, Cont. 81	76.20	3.18	3.45	AS8903	4 Cyl.	STD
						3.18	3.48			
						3.18	3.48			
						6.00	4.39			
								AS8904		STD

										
MASSEY-FERGUSON										
	6			21, 21A Piston #954800	82.55	2.38	3.89	AS8905	6 Cyl.	STD
				30 Chry. Ind. 72, 82		2.38	3.91	AS8905010		1.00
				Cont. 82, 92		4.00	4.39	AS8905020		1.50
				S137 Repl. 101 Super		4.00	3.91			
								AS8906		STD
	6			21, 21A, T112	82.55	3.18	3.89	AS8907	6 Cyl.	STD
				D504-6 101S Tractor		3.18	3.78	AS8907010		0.50
						3.18	3.78	AS8907020		1.50
						4.75	1.27			
								AS8908		STD
	4			VF4 Wis. No.1 Late S.P. Baler	82.55	2.38	3.89	AS8909	4 Cyl.	STD
				VF4 Wis. 50 P.T. Swather		2.38	3.91	AS8909010		0.50
						2.38	3.91	AS8909020		1.00
						4.75	4.39			
								AS8910		STD
FC	4			WAUKESHA Engine 15, 17	82.55	3.18	3.89	AS8911	4 Cyl.	STD
						3.18	3.78	AS8911010		0.50
						4.75	1.27	AS8911020		1.50
								AS8912		STD
	4			Models TE20, TO20 McQuay	82.55	2.38	3.89	AS8913	4 Cyl.	STD
				Norris Kit #SA186 Sealed						
				Power Kit #SL1881 Allied						
				Sleeve Kit #WSA312 Ertel						
				Sleeve Kit #SA213 Permite						
				Sleeve Kit #CDA178						
				Thompson Sleeve Kit #SA169						
				White Machine Sleeve Kit						
				#G219HCH						
						2.38	3.91			
						4.00	4.39			
						4.00	3.91			
								AS8914		STD
	4			Z129 Cont. TO30	82.55	3.18	3.89	AS8915	4 Cyl.	STD
						3.18	3.78			
						3.18	3.78			
						4.75	4.39			

										
MASSEY-FERGUSON										
		4		Models TE20, TO20 McQuay Norris Kit #SA186 Sealed Power Kit #SL1881 Allied Sleeve Kit #WSA312 Ertel Sleeve Kit #SA213 Permite Sleeve Kit #CDA178 Thompson Sleeve Kit #SA169 White Machine Sleeve Kit #G219HCH	84.14	2.38	3.99	AS8916	4 Cyl.	STD
						2.38	4.01			
						4.00	4.39			
						4.00	4.01			
		4		Z134 Cont. F40, 50, MF35, 50, 202, 204, * 2135, 2200, MH50, TO35	84.14	3.18	3.81	AS8917	4 Cyl.	STD
						3.18	3.84			
						3.18	3.84			
						4.75	4.39			
		6		120 20, 21, 21A Piston #974084	85.73	2.38	4.04	AS8918	6 Cyl.	STD
						2.38	3.89	AS8918010		0.50
						4.00	4.39	AS8918020		0.75
						4.00	3.89			
		4		Continental Z129, Z134 Engs. Overbore Conversion; Continental TO30, Z134 Engs. Overbore Conversion MH50, to 35 Allied Sleeve Kit #WSA313 Perfect Circle Sleeve Kit #WSA313	85.73	2.38	4.04	AS8919	4 Cyl.	STD
						3.18	3.89			
						3.18	3.89			
						6.00	4.39			
		4		Continental Z129, Z134 Engs. Ertel Sleeve Kit #SA214 White Machine Kit #G243HCH Genuine Parts Kit #S105, SA327 McQuay Norris Kit #SA201 M & W Sleeve Kit #SP23 Sealed Power Kit #SL1762 Thompson Sleeve Kit #SA185	85.73	2.38	4.04	AS8920	4 Cyl.	STD
						2.38	4.06			
						2.38	4.06			
						4.75	1.27			
		4		Z145 Cont. MF135G, MF150G	85.73	3.18	4.04	AS8921	4 Cyl.	STD
				Continental Z129, Z134 Engs. Ertel Sleeve Kit #SA214 White Machine Kit #G243HCH Genuine Parts Kit #S105, SA327 McQuay Norris Kit #SA201 M & W Sleeve Kit #SP23 Sealed Power Kit #SL1762 Thompson Sleeve Kit #SA185		3.18	3.89			
						3.18	3.89			
						4.75	1.27			

										
MASSEY-FERGUSON										
	6			170 Chry. Ind. MF205	86.36	2.00	4.09	AS8922	6 Cyl.	STD
				H225 Gas Chry. Ind. MF300		2.00	4.11	AS8922010		0.50
						4.75	4.75	AS8922020		0.75
								AS8922030		1.00
								AS8922040		1.50
								AS8923		STD
								AS8923010		0.50
								AS8923020		0.75
								AS8923030		1.00
								AS8923040		1.50
								AS8924		STD
								AS8924010		0.75
								AS8924020		1.00
								AS8924030		1.50
	6			201 Repl. 27	87.31	2.38	3.61	AS8925	6 Cyl.	STD
				265 Chry. Ind. 92, Super92		2.38	4.14			
						4.00	4.50			
						4.00	4.14			
								AS8926		STD
				AD4.203 Diesel Perkins	91.44	2.38	3.84	AS8927	1 Cyl.	STD
				MF300 For Late Piston						
				Chrome Sleeves use 7140 only						
				3A.152 Perkins MF35D,		2.38	3.86			
				MF50D, MF2200 * Chrome						
				Sleeves use 7140 only						
				3A.152D Diesel Perkins 203,		3.18	3.86			
				205, MF1350, MF1500,						
				MF2135 3A.152D S/N						
				1935854-on For Late Piston						
				Chrome Sleeves use 7140						
				only						
				4A203D Perkins 35 Late		6.35	3.86			
				Piston Chrome Sleeves use						
				7140 only						
						6.35	3.86			
	4			Continental E201 M&W	95.25	3.18	4.17	AS8928	4 Cyl.	STD
				Sleeve Kit #SP39						
						3.18	3.94			
						3.18	3.94			
						6.35	4.85			
	6			14	95.25	3.18	3.91	AS8929	6 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	4.45			
	6			292 Chev. 410	98.43	2.38	4.62	AS8930	6 Cyl.	STD
						2.38	3.99	AS8930010		0.25
						4.75	4.88	AS8930020		0.50
								AS8930030		0.75
								AS8930040		1.00
								AS8930050		1.50
								AS8930060		2.00
								AS8931		STD
								AS8931010		0.25
								AS8931020		0.50
								AS8931030		0.75
								AS8931040		1.00
								AS8931050		1.50
								AS8931060		2.00
								AS8932		STD
								AS8932010		0.25
								AS8932020		0.50
								AS8932030		0.75
								AS8932040		1.00
								AS8932050		1.50
								AS8932060		2.00

										
MASSEY-FERGUSON										
	6			A6.354 Perkins 510	98.43	2.38	3.96	AS8933	6 Cyl.	STD
				A6.354 Perkins MF1100D		2.38	3.99			
						2.38	3.99			
						6.35	2.21			
						6.35	3.48			
	4			AG4-212 Perkins MF30G, MF165G	98.48	2.38	3.96	AS8934	4 Cyl.	STD
						2.38	3.99			
						2.38	3.99			
						6.00	4.24			
	8			327 Chev. 510	101.60	2.00	4.78	AS8935	8 Cyl.	STD
						2.00	4.80	AS8935010		0.25
						4.75	4.88	AS8935020		0.50
								AS8935030		0.75
								AS8935040		1.00
								AS8935050		1.50
								AS8935060		1.75
								AS8935070		2.00
								AS8935080		2.50
								AS8936		STD
								AS8936010		0.25
								AS8936020		0.50
								AS8936030		0.75
								AS8936040		1.00
								AS8936050		1.50
								AS8936060		1.75
								AS8936070		2.00
								AS8937		STD
								AS8937010		0.13
								AS8937020		0.25
								AS8937030		0.50
								AS8937040		0.75
								AS8937050		1.00
								AS8937060		1.50
								AS8937070		1.75
								AS8937080		2.00
								AS8937090		2.50
	4			11, 12	101.60	3.18	4.39	AS8938	4 Cyl.	STD
				15-22, GI, GP		3.18	4.11			
						3.18	4.11			
						4.75	4.88			
	4			HD277 Cont. MF85, MF88	101.60	2.38	4.78	AS8939	4 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						6.35	2.59			
						4.75	4.37			
	4			Massey-Ferguson Clevite Piston A1103P Clevite Kit #SP11D	101.60	2.38	4.78	AS8940	4 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						6.00	4.88			
						6.35	4.24			
	4			Massey-Ferguson M&W Sleeve Kit #SP11D White Machine G253CH	101.60	2.38	4.78	AS8941	4 Cyl.	STD
						2.38	4.80			
						3.18	4.11			
						6.35	4.88			
						6.35	4.24			

										
MASSEY-FERGUSON										
	6			M333 Cont. 203, 203G, Ind.	101.60	3.18	4.39	AS8942	6 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						6.35	4.88			
	4			44 Series Gas, Dist. & Diesel w/Superior A1065 * Piston	101.60	2.50	4.78	AS8943	4 Cyl.	STD
				Continental H260 M & W Sleeve Kit #SP11 Allied		2.38	4.42			
				Sleeve Kit #WSA327 Genuine						
				Parts Kit #S147, S148						
				McQuay Norris Kit #SA194						
				Permite Sleeve Kit #CSA237						
				Sealed Power Kit #SL1774						
				Thompson Sleeve Kit #SA177						
				White Machine Sleeve Kit						
				#G208RHCH Piston A 1065		2.38	4.42			
						6.35	4.88			
	4			Continental H260 M & W Sleeve Kit #SP11 Allied	101.60	2.50	4.78	AS8944	4 Cyl.	STD
				Sleeve Kit #WSA327 Genuine						
				Parts Kit #S147, S148						
				McQuay Norris Kit #SA194						
				Permite Sleeve Kit #CSA237						
				Sealed Power Kit #SL1774						
				Thompson Sleeve Kit #SA177						
				White Machine Sleeve Kit						
				#G208RHCH Piston A 1065		2.38	4.80			
						3.18	4.11			
						6.35	4.88			
	6			F320G Wauk. MF1100G	104.78	2.38	4.93	AS8945	6 Cyl.	STD
						2.38	4.95			
						6.35	5.00			
	4			JD382 Diesel Cont. 55D, 555	114.30	3.18	5.36	AS8946	4 Cyl.	STD
						3.18	4.85			
						3.18	4.85			
						6.35	2.90			
						4.75	4.85			
MAZDA										
PB	1000	4	1968-74	PB	68.00	2.00	3.18	AS9001	4 Cyl.	STD
						2.00	3.20			
						4.00	3.30			
								AS9002		STD
B3	1323	4	1988-95	B3 SOHC	71.00	1.20	3.12	AS9003	4 Cyl.	STD
						1.50	3.33	AS9003010		0.25
						3.00	1.14	AS9003020		0.50
								AS9003030		0.75
								AS9003040		1.00
								AS9003050		1.50
TC	1272	4	1978-80	TC	73.00	1.50	3.10	AS9004	4 Cyl.	STD
						1.50	3.07	AS9004010		0.50
						4.00	3.30	AS9004020		0.75
								AS9004030		1.00
								AS9004040		1.50
								AS9005		STD
								AS9005010		0.25
								AS9005020		0.50
								AS9005030		0.75
								AS9005040		1.00
								AS9005050		1.50

										
MAZDA										
	1200	4	1970-78	1300	73.00	2.00	2.84	AS9006	4 Cyl.	STD
	1300			Mini Mizer; TEng. 818		2.00	2.87	AS9006010		0.50
						4.00	3.30	AS9006020		0.75
								AS9006030		1.00
								AS9006040		1.50
								AS9007		STD
								AS9007010		0.50
								AS9007020		0.75
								AS9007030		1.00
								AS9007040		1.50
F6JA, F6JB,	1399		2003-On	F6JA, F6JB, Turbo Diesel	73.70	2.50	3.25	AS9008	1 Cyl.	STD
						1.95	3.28	AS9008010		0.25
						2.50	3.33	AS9008020		0.50
	1397	4	1997-On	SOHC 121, 1.3	74.00	1.50	3.20	AS9009	4 Cyl.	STD
						1.75	3.23	AS9009010		0.50
						3.00	3.18	AS9009020		1.00
								AS9010		STD
								AS9010010		0.25
								AS9010020		0.50
								AS9010030		0.75
								AS9010040		1.00
	1844	6	1992-94	V6 K-8	75.00	1.50	2.95	AS9011	6 Cyl.	STD
						1.50	3.48	AS9011010		0.25
						3.00	2.79	AS9011020		0.50
								AS9011030		0.75
								AS9011040		1.00
								AS9012		STD
								AS9012010		0.50
								AS9012020		0.75
								AS9012030		1.00
	1484	4	1971-On	UA	75.00	2.00	3.45	AS9013	4 Cyl.	STD
						2.00	3.48	AS9013010		0.50
						4.00	3.94	AS9013020		0.75
								AS9013030		1.00
								AS9013040		1.50
								AS9014		STD
								AS9014010		0.25
								AS9014020		0.50
								AS9014030		0.75
								AS9014040		1.00
								AS9014050		1.50
								AS9014060		1.60
	1484	4	1971-On	UA Shallow Oil Ring Groove	75.00	2.00	3.45	AS9015	4 Cyl.	STD
						2.00	3.48	AS9015010		0.50
						4.00	2.92	AS9015020		0.75
								AS9015030		1.00
								AS9015040		1.50
								AS9016		STD
								AS9016010		0.25
								AS9016020		0.50
								AS9016030		0.75
								AS9016040		1.00
								AS9016050		1.50
Z5	1498	4	1995-98	Z5, , Protege	75.30	1.00	2.92	AS9017	4 Cyl.	STD
						1.20	3.48	AS9017010		0.50
						2.50	2.67	AS9017020		0.75
								AS9017030		1.00

										
MAZDA										
	1400	4	1979-80	GLC, UC	77.00	1.50	3.30	AS9018	4 Cyl.	STD
	1415					1.50	3.68	AS9018010		0.25
						4.00	3.68	AS9018020		0.50
								AS9018030		0.61
								AS9018040		0.75
								AS9018050		0.81
								AS9018060		1.00
								AS9018070		1.50
								AS9019		STD
								AS9019010		0.25
								AS9019020		0.50
								AS9019030		0.75
								AS9019040		1.00
E3, E5 Gasoline,	1296	4	1981-86	E-3	77.00	1.20	3.33	AS9020	4 Cyl.	STD
	1490		1980-86	GLC, E-5		1.50	3.68	AS9020010		0.25
						4.00	3.68	AS9020020		0.50
								AS9020030		0.75
								AS9020040		1.00
								AS9020050		1.50
E3, E5	1490	4	1981-85	E3, E5 323 Engs. GLC 1500 After Jan 82	77.00	1.50	3.30	AS9021	4 Cyl.	STD
						2.00	3.38	AS9021010		0.25
						4.00	3.43	AS9021020		0.50
								AS9021030		0.75
								AS9021040		1.00
								AS9021050		1.50
								AS9022		STD
								AS9022010		0.25
								AS9022020		0.50
								AS9022030		0.75
								AS9022040		1.00
								AS9022050		1.50
								AS9023		STD
		4		NA, VB, OHC-4	78.00	1.20	3.33	AS9024	4 Cyl.	STD
						1.50	3.71	AS9024010		0.25
						4.00	3.30	AS9024020		0.50
								AS9024030		0.75
								AS9024040		1.00
								AS9024050		1.50
B6, B6E, B6T, NA, VB	1586	4	1986-94	NA 808, B1600	78.00	1.50	2.97	AS9025	4 Cyl.	STD
	1597		1971-78	323, B-6 Incl. Turbo		1.50	3.38	AS9025010		0.25
	1597		1986-94	NA, VB Engs. 616, 808; Pickup		4.00	3.30	AS9025020		0.50
	1796		1977-78	VB, 618, B1800				AS9025030		0.75
			1972-78					AS9025040		1.00
								AS9025050		1.50
								AS9026		STD
								AS9026010		0.25
								AS9026020		0.50
								AS9026030		0.75
								AS9026040		1.00
								AS9026050		1.50
								AS9027		STD
								AS9027010		0.25
								AS9027020		0.50
								AS9027030		0.75
								AS9027040		1.00
								AS9027050		1.50
UB	1490	4	1966-70		78.00	2.00	3.35	AS9028	4 Cyl.	STD
	1500					2.00	3.71	AS9028010		1.00
						4.00	3.81			
								AS9029		STD
								AS9029010		0.50
								AS9029020		1.00

										
MAZDA										
B6Y2	1597	4	1990-94	B6Y2, MX-3	78.00	1.50	2.97	AS9030	4 Cyl.	STD
						1.50	3.38	AS9030010		0.25
						3.00	3.30	AS9030020		0.50
								AS9030030		0.75
								AS9030040		1.00
								AS9031		STD
								AS9031010		0.25
								AS9031020		0.50
								AS9031030		0.75
								AS9031040		1.00
								AS9031050		1.50
								AS9032		STD
ZL	1597	4	1999-On	ZL DOHC 16 Valve, Protege	78.00	1.20	3.33	AS9033	4 Cyl.	STD
						1.50	3.71	AS9033010		0.25
						3.00	3.30	AS9033020		0.50
								AS9033030		0.75
								AS9033040		1.00
	1995	6	1993-On	626 KF DOHC	78.00	1.50	2.97	AS9034	6 Cyl.	STD
						1.50	3.38	AS9034010		0.50
						3.00	2.92	AS9034020		1.00
								AS9035		STD
								AS9035010		0.50
								AS9035020		1.00
	1970	4	1979-82	626	80.00	1.20	3.33	AS9036	4 Cyl.	STD
						1.50	3.48	AS9036010		0.25
						4.00	3.81	AS9036020		0.50
								AS9036030		0.75
								AS9036040		1.00
								AS9036050		1.50
	1970	4	1982-84	626	80.00	1.50	3.18	AS9037	4 Cyl.	STD
	1989					2.00	3.20	AS9037010		0.25
	2000					4.00	1.27	AS9037020		0.50
								AS9037030		0.75
								AS9037040		1.00
								AS9038		STD
								AS9038010		0.25
								AS9038020		0.50
								AS9038030		0.75
								AS9038040		1.00
								AS9038050		1.50
	1768	4	1973-On	VC, Luce, Capella 1800	80.00	2.00	3.18	AS9039	4 Cyl.	STD
	1970		1973-On	929, LA2V, LA3V, SV2A, CB1V929 Sedan		2.00	3.71	AS9039010		0.50
						4.00	3.81	AS9039020		0.75
								AS9039030		1.00
								AS9039040		1.50
								AS9040		STD
								AS9040010		0.50
								AS9040020		0.75
								AS9040030		1.00
KJ	2255	6	1995-02	KJ Millenia	80.30	1.50	3.45	AS9041	6 Cyl.	STD
						1.50	3.86	AS9041010		0.50
						3.00	3.18	AS9041020		0.75
								AS9041030		1.00
								AS9042		STD
								AS9042010		0.50
								AS9042020		0.75
								AS9042030		1.00

										
MAZDA										
	1587	4		626 EXPORT ONLY	81.00	1.50	3.18	AS9043	4 Cyl.	STD
						1.50	3.23	AS9043010		0.50
						4.00	3.81	AS9043020		0.75
								AS9043030		1.00
								AS9043040		1.50
								AS9044		STD
								AS9044010		0.50
								AS9044020		0.75
F6	1597	4	1983-93	F6, 323, B1600 w/shallow oil groove	81.00	1.50	3.58	AS9045	4 Cyl.	STD
						1.50	3.23	AS9045010		0.50
						4.00	3.30	AS9045020		1.00
GY	2495	6	2000-01	GY	81.60	1.20	3.12	AS9046	6 Cyl.	STD
						1.50	3.89	AS9046010		0.50
						3.00	3.43	AS9046020		0.75
								AS9046030		1.00
VA	1985	4		VA Forklift	82.00	2.00	3.86	AS9047	4 Cyl.	STD
						2.00	3.25			
						4.50	3.56			
	1753		1996-02	SOHC Diesel RTE, RTF	82.50	2.00	3.56	AS9048	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
BP, BP01, BP05-VE	1839	4	1990-05	323 BP, BP01, BP05-VE, Vin:6,P DOHC, SOHC	83.00	1.50	3.20	AS9049	4 Cyl.	STD
						1.50	3.25	AS9049010		0.25
						3.00	3.30	AS9049020		0.50
								AS9049030		1.00
								AS9050		STD
								AS9050010		0.25
								AS9050020		0.50
								AS9050030		0.75
								AS9050040		1.00
								AS9050050		1.50
FS , FP	1991	4	1993-03	MX6, 626, DOHC	83.00	1.20	3.12	AS9051	4 Cyl.	STD
						1.50	3.25	AS9051010		0.25
						3.00	3.30	AS9051020		0.50
								AS9051030		0.75
								AS9051040		1.00
FS , FP	1839	4	1993-03	DOHC FP, FS	83.00	1.20	3.53	AS9052	4 Cyl.	STD
						1.50	3.25	AS9052010		0.25
						3.00	2.67	AS9052020		0.50
								AS9052030		0.75
								AS9052040		1.00
	1839	4		323 Race	83.00	1.50	3.20	AS9053	4 Cyl.	STD
						1.50	3.25	AS9053010		0.50
						3.00	3.30			
								AS9054		STD
								AS9054010		0.25
								AS9054020		0.50
								AS9054030		0.75
								AS9054040		1.00
								AS9054050		1.50
MX6, KL	2497	6	1993-02	MX6, KL, 626	84.50	1.50	3.43	AS9055	6 Cyl.	STD
						1.50	3.84	AS9055010		0.50
						3.00	3.18	AS9055020		0.75
								AS9055030		1.00
								AS9056		STD
								AS9056010		0.50
								AS9056020		0.75
								AS9056030		1.00

										
MAZDA										
	1998	4		Diesel RF, 626	86.00	2.00	3.71	AS9057	4 Cyl.	STD
						2.00	3.89	AS9057010		0.25
						4.00	3.78	AS9057020		0.50
								AS9057030		0.75
								AS9057040		1.00
R2, SR29V	2184	4		R2, SR29V, Diesel Late Design	86.00	2.00	3.25	AS9058	4 Cyl.	STD
						2.00	3.89	AS9058010		0.50
						3.00	2.90	AS9058020		1.00
FE, F2, F8	1998	4	1983-87	FE, F2, F8; 626, B2000 Incl. Turbo	86.00	1.50	3.45	AS9059	4 Cyl.	STD
	2184		1988-93	FE, F2, F8; 626, B2200 Incl. Turbo		1.50	3.78	AS9059010		0.50
						4.00	3.68	AS9059020		0.75
								AS9059030		1.00
								AS9059040		1.50
								AS9060		STD
								AS9060010		0.25
								AS9060020		0.50
								AS9060030		0.75
								AS9060040		1.00
								AS9060050		1.50
								AS9061		STD
								AS9061010		0.25
								AS9061020		0.50
								AS9061030		0.75
								AS9061040		1.00
								AS9061050		1.50
LF-DE, L3-VE	1998	4	2004-10	LF-DE, Miata MX5, DOHC	87.50	1.20	3.12	AS9062	4 Cyl.	STD
	2260		2002-10	L3-VE, Mazda 3/6 DOHC		1.20	3.33	AS9062010		0.25
						2.50	2.92	AS9062020		0.50
								AS9062030		0.75
								AS9062040		1.00
								AS9063		STD
								AS9063010		0.50
L3-VDT,MZR	2266	4	2006-12	L3-VDT DOHC 16V MZR Duatac 23 w/Turbo	87.50	1.50	3.25	AS9064	4 Cyl.	STD
						1.50	3.28	AS9064010		0.50
						2.00	2.67	AS9064020		0.75
								AS9064030		1.00
	2200	4	1981-84	Diesel Engs. B2200 Pickup	88.90	2.38	3.63	AS9065	4 Cyl.	STD
	2209					2.38	3.66	AS9065010		0.25
						4.75	4.24	AS9065020		0.50
								AS9065030		0.75
								AS9065040		1.00
								AS9065050		1.50
AJ-DE	2967	6	2001-08	DOHC AJ-DE	89.00	1.20	3.33	AS9066	6 Cyl.	STD
						1.50	4.01	AS9066010		0.25
						2.50	3.81	AS9066020		0.50
								AS9066030		0.75
								AS9066040		1.00
	2954	6	1994-00	B3000 Pickup, U, V DOHC	89.00	1.50	3.38	AS9067	6 Cyl.	STD
						1.50	4.01	AS9067010		0.25
						4.00	3.30	AS9067020		0.50
								AS9067030		0.75
								AS9067040		1.00
								AS9067050		1.50
								AS9068		STD
								AS9068010		0.25
								AS9068020		0.50
								AS9068030		0.75
								AS9068040		1.00
								AS9069		STD
								AS9069010		0.25
								AS9069020		0.50
								AS9069030		0.75
								AS9069040		1.00

										
MAZDA										
JE	2954	6	1988-97	JE 929, MPV	90.00	1.50	3.38	AS9070	6 Cyl.	STD
						1.50	4.01	AS9070010		0.50
						4.00	3.81	AS9070020		0.75
								AS9070030		1.00
								AS9071		STD
								AS9071010		0.50
								AS9071020		0.75
	2555	4	1987-88	B2600 Pickup	91.10	1.50	3.58	AS9072	4 Cyl.	STD
						1.50	4.06	AS9072010		0.25
						4.00	3.81	AS9072020		0.50
								AS9072030		0.75
								AS9072040		1.00
								AS9072050		1.50
								AS9073		STD
								AS9073010		0.25
								AS9073020		0.50
								AS9073030		0.75
								AS9073040		1.00
								AS9073050		1.50
	2605	4	1989-94	B2600	92.00	1.50	3.48	AS9074	4 Cyl.	STD
						1.50	4.09	AS9074010		0.25
						4.00	3.43	AS9074020		0.50
								AS9074030		0.75
								AS9074040		1.00
								AS9074050		1.50
								AS9075		STD
								AS9075010		0.25
								AS9075020		0.50
								AS9075030		0.75
								AS9075040		1.00
								AS9076		STD
								AS9076010		0.25
								AS9076020		0.50
								AS9076030		0.75
								AS9076040		1.00
								AS9076050		1.50
								AS9077		STD
								AS9077010		0.25
								AS9077020		0.50
								AS9077030		0.75
								AS9077040		1.00
ZB	4052	6		Forklift, ZB	92.08	2.38	4.06	AS9078	6 Cyl.	STD
						2.38	4.09	AS9078010		0.50
						4.75	1.27	AS9078020		0.75
								AS9079		STD
	2499	4	2006-11	BT-50 WL-C TDI Diesel (Check Ring Widths)	93.00	2.00	0.15	AS9080	4 Cyl.	STD
						1.50				
						2.00				
HA,	2977	4		Diesel HA, Titan E3000 WE, WOF1	95.00	2.38	3.91	AS9081	4 Cyl.	STD
						2.38	3.94			
						4.75	4.45			

										
MAZDA										
	2507	4	1998-01	B2500 SOHC	96.00	1.50	3.94	AS9082	4 Cyl.	STD
						1.50	3.73	AS9082010		0.50
						3.00	3.30	AS9082020		0.75
								AS9082030		1.00
								AS9082040		1.50
								AS9083		STD
								AS9083010		0.50
								AS9083020		0.75
								AS9083030		1.00
								AS9083040		1.50
	2300	4	1994-97	B2300 Pickup	96.00	1.50	3.94	AS9084	4 Cyl.	STD
						1.50	3.73	AS9084010		0.50
						4.00	3.56	AS9084020		0.75
								AS9084030		1.00
								AS9084040		1.50
								AS9085		STD
								AS9085010		0.50
								AS9085020		0.75
								AS9085030		1.00
								AS9085040		1.50
								AS9086		STD
								AS9086010		0.50
								AS9086020		0.75
								AS9086030		1.00
								AS9086040		1.50
XS	4016	6	1991-07	XS, Navajo, B4000 SOHC	100.40	1.60	4.11	AS9087	6 Cyl.	STD
						1.75	4.14	AS9087010		0.50
						3.50	3.61	AS9087020		0.75
								AS9087030		1.00
								AS9087040		1.50
								AS9088		STD
								AS9088010		0.25
								AS9088020		0.50
								AS9088030		0.75
								AS9088040		1.00
								AS9088050		1.50
MCCULLOCH										
				3-21, 3-25	50.80	1.60	2.39	AS9089	1 Cyl.	STD
				Super 44, D44, 47		1.60	2.41			
				Super 55, M55, 55						
MELROE BOBCAT										
	4			V1702 Diesel	82.00	2.50	3.86	AS9090	4 Cyl.	STD
						2.00	3.89			
						5.00	4.34			
MERCEDES-BENZ										
M 160 E6AL B03, M 160 E6AL B04	599		1998-On	Smart 600	63.50	1.00	1.00	AS9101	4 Cyl.	STD
						1.00	1.50	AS9101010		
						1.00	2.50	AS9101020		
	799		2004-On	799cc OM660.940/.950	65.50	1.50	2.69	AS9102	1 Cyl.	STD
						1.50	2.67			
						2.50	3.07			
OM668	1689		1998-05	Diesel DOHC OM668	80.00	2.00	3.51	AS9103	1 Cyl.	STD
						2.00	3.53			
						3.00	3.68			

										
MERCEDES-BENZ										
		6		230	81.75	1.75	3.86	AS9104	6 Cyl.	STD
						2.50	3.89			
						4.00	4.39			
								AS9105		STD
E26, M103	2599	6		E26, M103 Motor 190E, 260E, 260SE, 300E	82.90	1.50	3.78	AS9106	6 Cyl.	STD
						1.75	3.81	AS9106010		0.50
						3.00	3.43			
OM642	2987		2006-14	OM642 Diesel ML300, ML350, E320, E350, S320	83.00	2.00	3.61	AS9107	1 Cyl.	STD
						2.00	3.63			
						2.00	2.87			
OM 651.955, OM 651.956, OM 651.957, OM 651.960, OM 651.961, OM 651.980, OM 651.940	2143	4	2007-13	C-Class C,E-Class, GLK-Class, S-Class	83.00	2.00	3.51	AS9108	4 Cyl.	STD
OM 651.930, OM 651.925, OM 651.924, OM 651.921, OM 651.916, OM 651.913, OM 651.912, OM 651.911			2006-13	A-Class, B-Class, CLA, Viano, Mixto Box, Sprinter 3, M-Class, S-Class, SLK		1.75	3.63	AS9108010		0.25
						2.00	3.10	AS9108020		0.50
OM640	1991		2004-12	OM640 Diesel A160, A180, A200, B180, B200	83.00	2.00	3.61	AS9109	1 Cyl.	STD
						2.00	3.63			
						2.00	2.87			
OM621		4	1959-63	190DB, OM621 Diesel	85.00	2.00	3.81	AS9110	4 Cyl.	STD
						2.00	3.84	AS9110010		0.50
						2.00	4.04	AS9110020		1.00
						5.00	4.11			
								AS9111	4 Cyl.	STD
								AS9111010		0.50
								AS9111020		0.75
								AS9111030		1.00
		6	1972-On	280, 280C, 280E & 280CE	86.00	1.75	3.86	AS9112	6 Cyl.	STD
						2.50	4.06	AS9112010		0.50
						4.00	4.11			
	3996		2000-08	Turbo Diesel DOHC 32v OM628 Class E G M S	86.00	2.50	3.76	AS9113	1 Cyl.	STD
						2.00	3.78			
						3.00	3.68			
M 130, 142		6	1968-72	280SL 3 Ring Piston	86.50	2.00	4.09	AS9114	6 Cyl.	STD
						2.50	3.91			
						4.00	4.50			
								AS9115		STD
								AS9115010		0.50

										
MERCEDES-BENZ										
	2778	6	1968-73	280S, 280SE, 280SL, 250/8, 250C, 300SEL	86.50	2.00	4.09	AS9116	6 Cyl.	STD
						2.00	4.11	AS9116010		0.50
						2.50	3.91	AS9116020		1.00
						4.00	4.50			
								AS9117		STD
								AS9117010		0.50
								AS9117020		1.50
M 115.900	2197	4	1968-On	220/8 3 Ring Piston	87.00	2.00	4.11	AS9118	4 Cyl.	STD
						2.50	3.94	AS9118010		1.00
						4.00	4.11	AS9118020		1.00
								AS9119		STD
								AS9119010		1.00
		4		190D Mahle Piston	87.00	1.50	3.61	AS9120	4 Cyl.	STD
						1.50	3.94	AS9120010		0.25
						2.50	3.94	AS9120020		0.50
						4.00	4.11	AS9120030		0.75
OM601 190D, OM602 190D, OM603 300D				OM601 190D, 200D (4cyl) OM602 190D, 200D (5cyl) OM603 300D (6cyl)	87.00	2.00	3.91	AS9120040		1.00
						2.00	3.94	AS9121	1 Cyl.	STD
						3.00	3.43	AS9121010		0.25
	2197	4	1973-78	200, 220D	87.00	2.00	3.61	AS9122	4 Cyl.	STD
						2.00	3.94	AS9122010		0.50
						4.00	3.68	AS9122020		0.75
								AS9122030		1.00
								AS9122040		1.50
								AS9123		STD
								AS9123010		0.50
								AS9123020		0.75
								AS9123030		1.00
								AS9124		STD
								AS9124010		0.50
								AS9124020		0.75
								AS9124030		1.00
		4	1967-68	200D 4 Ring Piston	87.00	1.50	3.61	AS9125	4 Cyl.	STD
						1.50	3.94	AS9125010		0.25
						2.50	3.94	AS9125020		0.50
						5.00	4.11	AS9125030		0.75
								AS9125040		1.00
								AS9126		STD
								AS9126010		0.25
								AS9126020		0.50
								AS9126030		0.75
								AS9126040		1.00
OM 603.960, 606.961, 606.962, 606.964	2996		1986-00	300TD	87.00	2.50	3.81	AS9127	1 Cyl.	STD
						2.00	3.94			
						3.00	3.33			
OM621/110		4	1961-65	190DC, OM621/110 Diesel	87.00	1.50	3.61	AS9128	4 Cyl.	STD
						1.50	3.94	AS9128010		0.50
						1.50	3.94	AS9128020		1.00
						5.00	4.11			
								AS9129	4 Cyl.	STD
								AS9129010		0.50
								AS9129020		0.75
								AS9129030		1.00

										
MERCEDES-BENZ										
	1988	4		200/8 MB 115.923 TC:9	87.00	1.50	3.61	AS9130	4 Cyl.	STD
						2.50	3.94	AS9130010		0.50
						4.00	4.11	AS9130020		1.00
OM 615		4		200D, 220D, OM615, 913 3 Ring Piston	87.00	3.00	4.11	AS9131	4 Cyl.	STD
						2.00	4.14			
						4.00	4.11			
OM611, OM613, OM646 OM647	2148		1997-08	DOHC Diesel OM611, OM646 C200, E200 w/2 pc oil ring	88.00	2.50	3.81	AS9132	1 Cyl.	STD
						2.00	3.84	AS9132010		0.50
						3.00	3.68			
M 103 E 30, M 104 E 30		6	1985-On	190E, TE, CE, 300E, 300GE, SE, SL, SEL M103	88.50	1.50	3.61	AS9133	6 Cyl.	STD
				1991-On300, CE24, E24, SL24, TE24 M104		1.75	3.63	AS9133010		0.50
						3.00	3.30	AS9133020		1.00
M 102 E 20, M 102 V 20		4	1980-On	109, 190E, 200T M102	89.00	1.75	3.94	AS9134	4 Cyl.	STD
						2.00	3.99	AS9134010		0.50
						3.50	3.94	AS9134020		1.00
			1988-91	208D, 308D, 408D, 507D (4 cyl.) OM601, D23 (4 cyl.) C220D, OM604 (4 cyl.) 210D, 310D, 410D, OM602, D29 (5 cyl.) 300SD, 350SD, SDL (5 cyl.) 350GD (5 cyl.) OM603, D35A (Turbo), 970 3.5L (6 cyl.)	89.00	2.50	3.63	AS9135	1 Cyl.	STD
						2.00	3.99			
						3.00	3.30			
	2299		1995-On	Diesel OM601	89.00	2.50	3.86	AS9136	1 Cyl.	STD
	2874		1989-06	Turbo Diesel OM602		2.00	3.89			
						3.00	3.68			
M 111 E 20, M 111 E 22, M 104 E 28, M 104 E 32, M 112 E 26, M 112 E 28, M 112 E 32, M 113 E 43	1998			M111, E20 Motor	89.90	1.50	3.45	AS9137	2 Cyl.	STD
	2199			M111, E22 Motor		1.75	4.27	AS9137010		0.25
	2799			M104, E28 Motor		3.00	3.43	AS9137020		0.50
	3199			M104, E32 Motor						
				M112, E32 Motor V-6						
				M113, E43 Motor V-8						
M 161.971, M 111.984, M 111.983, 02 M 111.982, M 111.981	2295	4		CLK, SLK, Sprinter, MB 100 2.3	90.90	1.50	3.40	AS9138	4 Cyl.	STD
M 111.980, M 111.979, M 111.978, M 111.977, M 111.975, M 111.974, M 111.973, M 111.970				E-Class, CLK, SLK, C-Class, M-Class, V-Class, Vito, Sprinter, Viano, V, C-Class		1.75	3.63	AS9138010		0.25
						3.00	3.07	AS9138020		0.50
OM 616, OM 617, OM 617 A		4	1978-On	240D, OM616	90.90	3.00	4.04	AS9139	4 Cyl.	STD
						2.00	4.06			
						4.00	5.31			
		5	1979-On	300D, TD, CD (USA), Lang 209D, 309D, 409D, 300GD 4WD, 300D, GD, TD	90.90	3.00	4.04	AS9140	5 Cyl.	STD
						2.00	4.06			
						4.00	5.31			

										
MERCEDES-BENZ										
OM 616, OM 617	2404	4	1974-85	Diesel 240D	91.00	3.00	4.04	AS9141	4 Cyl.	STD
						2.00	3.68			
						4.00	5.31			
	2404		1974-85					AS9142		STD
								AS9142010		0.50
	2971			Diesel 240D, 300, OM616, OM617, 300SD Turbo	91.00	3.00	4.04	AS9143	1 Cyl.	STD
						2.00	3.68			
						4.00	5.31			
, M 117, M 116 E 36	3499	8	1969-On	450SE, SEL, SL, SLC, M16	92.00	1.75	4.32	AS9144	8 Cyl.	STD
	4520			1969-On450SE, SEL, SL, SLC, M16		2.50	4.34			
						4.00	4.62			
								AS9145		STD
		8		300SE, SEL, SL, 380	92.00	1.75	4.32	AS9146	8 Cyl.	STD
						2.00	4.09	AS9146010		0.50
						3.50	4.39			
M 272 DE 35, M 272 KE 35, M 273 KE 46	3498	6	2005-08	C350, CLK350, E350, R350, SLK350 DOHC FI 24V 272.960	92.90	1.50	3.61	AS9147	6 Cyl.	STD
						1.75	3.89			
						2.50	3.10			
	2307	4	1974-76	Gas PDE 230, 230/4	93.75	1.75	4.42	AS9148	4 Cyl.	STD
						2.50	4.14			
						4.00	1.27			
								AS9149		STD
								AS9149010		0.50
								AS9149020		1.00
M102,E23, 190E, 230CE, 230E, 230GE	2299	4		M102 Motor, E23, 190E, 230CE, 230E, 230GE	95.50	1.75	4.17	AS9150	4 Cyl.	STD
						2.00	4.19			
						3.50	3.43			
		8	1991-On	500E, SE, SEL, SL, M119-E50	96.50	1.75	3.96	AS9151	8 Cyl.	STD
				1978-On500, 560SE, SEC, SEL, SL, SLC, M117		2.00	3.73	AS9151010		0.50
						3.50	3.81	AS9151020		1.00
	3782			Diesel OM314 4 ring piston	97.00	3.00	3.96	AS9152	2 Cyl.	STD
	5675			Diesel OM352, OM353 4 ring piston		3.00	4.24			
						3.00	4.24			
						5.50	5.31			
OM 314, OM 352, OM 353, OM 352 A, OM 367,	3780		1964-On	60, 80, 100 H.P.	97.00	3.00	3.96	AS9153	2 Cyl.	STD
	5675		1964-On	126 H.P. OM352, OM352A Incl. Turbo		3.00	4.24	AS9153010		0.50
						3.00	4.24	AS9153020		0.75
						5.50	5.31	AS9153030		1.00
						5.50	3.99	AS9153040		1.50
OM352, OM362	3784			OM314 Turbo Diesel	97.00	2.50	3.96	AS9154	2 Cyl.	STD
	5675			OM352, OM362 Turbo Diesel		2.50	4.24			
						4.00	5.18			

										
MERCEDES-BENZ										
OM 904, OM 904 LA, OM 906 LA, OM 906 HLA				OM904, OM907, OM924, OM960	102.00	3.00	4.09	AS9155	1 Cyl.	STD
				OM902, OM906, OM909, OM926		2.50	4.39	AS9155010	1 Cyl.	0.30
						4.00	4.19	AS9155020	1 Cyl.	0.60
OM 360, OM 360 A, OM 360 H	6			OM360	115.00	3.50	4.47	AS9156	6 Cyl.	STD
						3.00	4.88			
						5.50	5.64			
MERCURISER										
181cu. in.	4			Race	101.60	2.00	4.78	AS9201	4 Cyl.	STD
						2.00	4.80	AS9201010		0.50
						4.75	5.00	AS9201020		0.75
								AS9201030		1.50
181cu. in.	4				101.60	2.00	4.78	AS9202	4 Cyl.	STD
						2.00	4.80	AS9202010		0.50
						4.75	4.88	AS9202020		0.75
								AS9202030		1.00
								AS9202040		1.50
								AS9203		STD
								AS9203010		0.50
								AS9203020		0.75
								AS9203030		1.00
								AS9203040		1.50
								AS9204		STD
								AS9204010		0.50
								AS9204020		0.75
								AS9204030		1.00
								AS9204040		1.50
								AS9204050		1.63
								AS9205		STD
								AS9205010		0.50
								AS9205020		0.75
								AS9205030		1.00
								AS9205040		1.50
								AS9205050		1.63
224 cu. in.	4			Engs. 170, 470-488 series Alum. Block Sleeved Cyls.	110.74	2.00	4.70	AS9206	4 Cyl.	STD
						2.00	4.72	AS9206010		0.50
						4.75	4.88	AS9206020		0.75
								AS9206030		1.00
								AS9207		STD
								AS9207010		0.50
								AS9207020		0.75
								AS9207030		1.00
								AS9208		STD
								AS9208010		0.50
								AS9208020		0.75
								AS9208030		1.00
								AS9208040		1.50
502cu. in.	8			2010-OnSer #OM9545 w/1.5mm top grv.	113.47	1.50	4.70	AS9209	8 Cyl.	STD
						1.50	4.72			
						4.00	3.30			
502 cu. in.	8			1988-09 H.O.	113.47	2.00	5.23	AS9210	8 Cyl.	STD
						1.50	4.72	AS9210010		0.13
						4.00	3.30	AS9210020		0.75
								AS9210030		1.50
MIDLAND										
				7.4 cu. ft. 4025AW, 4030W, 4084, EL740	50.80	2.38	2.39	AS9301	2 Cyl.	STD
						2.38	2.41			
						4.75	1.14			

										
MIDLAND										
				13 cu. ft. EL1300, EL1600; 7000 Series 3 ring piston	69.85	4.75	3.53	AS9302	1 Cyl.	STD
						4.75	3.56	AS9302010		0.25
						4.75	3.81	AS9302020		0.50
								AS9302030		0.75
				1300, 1600 5 ring piston	69.85	2.38	2.69	AS9303	2 Cyl.	STD
						2.38	2.72	AS9303010		0.75
						2.38	2.72	AS9303020		1.00
						2.38	2.72			
						4.75	3.56			
MINNEAPOLIS-MOLINE - WHITE MOTORS										
	4			165-4, 4A; 185-4, 206-4, 4A; 206A4, 4A; 206B, * 206G, 206VEE, RE Shallow Grooves	92.08	3.18	3.84	AS9401	4 Cyl.	STD
						3.18	3.86			
						3.18	3.86			
						4.75	1.27			
	4			Jet Star 3, Big MO 400 & 500 Diesel, Gas, LPG	92.08	2.38	4.06	AS9402	4 Cyl.	STD
				206N4 4 Star, 4 Star Super, Jet Star, 335, 445, G4, Combine Unitractor		2.38	4.09			
				445, 206B4R, 206H4, 206GH Minn. Ind., G4		2.38	4.09			
						4.75	4.62			
	4				92.08	2.38	4.32	AS9403	4 Cyl.	STD
						2.38	4.09			
						2.38	4.09			
						4.75	4.34			
	4				92.08	3.18	3.84	AS9404		STD
						3.18	3.86			
						3.18	3.86			
						4.75	1.27			
	4			165-4, 4A; 185-4, 206-4, 4A; 206A4, 4A; 206B, * 206G, 206VEE, RE M&W Sleeve Kit #AP123 White Machine #A1085 INCREASE BORE SLEEVE ASSEMB. FOR ABOVE	95.25	3.18	4.17	AS9405	4 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	1.27			
	6			425-C6 Gas & LPG	107.95	2.38	5.05	AS9406	6 Cyl.	STD
						2.38	4.37			
						2.38	4.37			
						4.75	1.27			
	6			425C-6	107.95	2.38	5.05	AS9407	6 Cyl.	STD
						2.38	5.08			
						2.38	5.08			
						4.75	1.27			
								AS9408		STD
	6			HD 800, Gas & LPG HD800	135.10	2.38	5.51	AS9409	6 Cyl.	STD
						2.38	5.54	AS9409010		1.50
						2.38	5.54			
						4.75	5.21			

										
MITSUBISHI										
4G11	1244	4		4G11	69.50	1.50	2.72	AS9501	4 Cyl.	STD
						1.50	2.74			
						4.00	3.94			
								AS9502		STD
								AS9502010		0.25
								AS9502020		0.50
								AS9502030		0.75
								AS9502040		1.00
4G42	1187	4	1983-86	4G42	71.00	2.00	3.30	AS9503	4 Cyl.	STD
						2.00	3.33			
						4.00	3.81			
								AS9504		STD
								AS9504010		0.50
								AS9504020		1.00
G13B	1298	4	1985-91	G13B	71.00	1.50	2.72	AS9505	4 Cyl.	STD
						1.50	3.33	AS9505010		0.25
						4.00	3.30	AS9505020		0.50
								AS9505030		0.75
								AS9505040		1.00
								AS9506		STD
								AS9506010		0.25
								AS9506020		0.50
								AS9506030		0.75
								AS9506040		1.00
4G36EC		4		4G36EC Colt, Mirage	71.80	1.50	3.35	AS9507	4 Cyl.	STD
						1.50	3.38	AS9507010		0.50
						4.00	3.43	AS9507020		1.00
								AS9508		STD
								AS9508010		0.50
								AS9508020		1.00
	997	4	1963-67	997cc 1100	72.00	2.00	3.38	AS9509	4 Cyl.	STD
						2.00	3.40			
						4.00	3.81			
								AS9510		STD
4G33, 4G36	1238	4	1975-78	4G33, 4G36 New	73.00	1.50	3.10	AS9511	4 Cyl.	STD
						1.50	3.07	AS9511010		0.50
						4.00	3.30	AS9511020		0.75
								AS9511030		1.00
								AS9511040		1.50
								AS9512		STD
								AS9512010		0.25
								AS9512020		0.50
								AS9512030		0.75
								AS9512040		1.00
								AS9512050		1.50
KE44 Old, 4G30, 4G33	1088	4	1967-73	KE44 Old, 4G30, 4G33	73.00	2.00	2.84	AS9513	4 Cyl.	STD
	1289		1969-70	Galant, 4G30		2.00	2.87	AS9513010		0.50
						4.00	3.30	AS9513020		0.75
								AS9513030		1.00
								AS9513040		1.50
								AS9514		STD
								AS9514010		0.50
								AS9514020		0.75
								AS9514030		1.00
								AS9514040		1.50

										
MITSUBISHI										
G12B	1378 1410	4	1979-On	Engs. J, Q, G12B	74.00	1.50 1.50 4.00	3.20 3.45 3.30	AS9515	4 Cyl.	STD
								AS9515010		0.25
								AS9515020		0.50
								AS9515030		0.75
								AS9515040		1.00
								AS9515050		1.50
								AS9516		STD
								AS9516010		0.25
								AS9516020		0.50
								AS9516030		0.75
								AS9516040		1.00
								AS9516050		1.50
								AS9517		STD
								AS9517010		0.50
								AS9517020		0.75
								AS9517030		1.00
								AS9517040		1.50
G15B, 4G15B, G4AJ, G4DJ		4	1991-96	92cu. in. Q, 12 Valve G15B, 4G15B, G4AJ, G4DJ	75.50	1.20	2.92	AS9518	4 Cyl.	STD
						1.50 3.00	3.12 3.18	AS9518010		0.25
								AS9518020		0.50
								AS9518030		0.75
								AS9518040		1.00
								AS9518050		1.50
4G15	1468	4	1997-02	, 4G15	75.50	1.20	2.92	AS9519	4 Cyl.	STD
						1.50 2.80	3.12 2.79	AS9519010		0.50
								AS9519020		0.75
								AS9519030		1.00
G15B, G4DJ	1468	4	1985-90	G15B, G4DJ	75.50	1.50 1.50 4.00	2.95 3.12 3.68	AS9520	4 Cyl.	STD
								AS9520010		0.25
								AS9520020		0.50
								AS9520030		0.75
								AS9520040		1.00
								AS9520050		1.50
								AS9521		STD
								AS9521010		0.25
								AS9521020		0.50
								AS9521030		0.75
								AS9521040		1.00
								AS9521050		1.50
								AS9522		STD
								AS9522010		0.25
								AS9522020		0.50
								AS9522030		0.75
								AS9522040		1.00
4G18	1584	4	2002-On	4G18, SOHC Proton 96.7cu. in. Korean	76.00	1.20	3.12	AS9523	4 Cyl.	STD
						1.20 2.50	2.97 2.79	AS9523010		0.50
								AS9523020		1.00
4G41	1378	4	1971-73	Galant Coupe FTO, Delica Truck T120, 4G41	76.50	2.00	3.45	AS9524	4 Cyl.	STD
						2.00 4.00	3.48 3.94	AS9524010		0.50
								AS9524020		0.75
								AS9525		STD
								AS9525010		0.50
								AS9525020		1.00
4G32	1597	4	1985-89	4G32 Incl. Turbo	76.90	1.50 1.50 4.00	3.30 3.68 3.43	AS9526	4 Cyl.	STD
								AS9526010		0.50
								AS9526020		0.75
								AS9526030		1.00
								AS9527		STD
								AS9527010		0.25
								AS9527020		0.50
								AS9527030		0.75
								AS9527040		1.00

										
MITSUBISHI										
4G32, 4G32B	1597 1600	4	1971-83	Engs. K, Z	76.90	2.00 2.00 4.00	3.66 3.68 3.94	AS9528	4 Cyl.	STD
								AS9528010		0.25
								AS9528020		0.50
								AS9528030		0.75
								AS9528040		1.00
								AS9528050		1.50
								AS9529		STD
								AS9529010		0.25
								AS9529020		0.50
								AS9529030		0.75
								AS9529040		1.00
2G25				2G25	78.00	1.50 1.50 2.50	3.35 3.38 2.92	AS9530	2 Cyl.	STD
								AS9530010		0.50
								AS9530020		0.75
								AS9530030		1.00
4G37, G62B	1755 1795	4	1983-94	4G37, G62B Incl. Turbo	80.60	1.50 1.50 4.00	3.58 3.61 3.30	AS9531	4 Cyl.	STD
								AS9531010		0.50
								AS9531020		0.75
								AS9531030		1.00
								AS9532		STD
								AS9532010		0.50
								AS9532020		0.75
								AS9532030		1.00
								AS9532040		1.50
4G62B		4	1983-85	4G62B	80.60	2.00 2.00 4.00	3.58 3.61 3.81	AS9533	4 Cyl.	STD
								AS9533010		0.50
								AS9533020		0.75
								AS9533030		1.00
								AS9533040		1.50
								AS9534		STD
								AS9534010		0.50
								AS9534020		0.75
								AS9534030		1.00
4G93	1834	4	1992-02	16 Valve 4G93	81.00	1.20 1.20 2.80	3.33 3.15 2.67	AS9535	4 Cyl.	STD
								AS9535010		0.50
								AS9535020		0.75
								AS9535030		1.00
4G94	1997	4	2002-06	, 4G94 SOHC	81.50	1.20 1.20 2.50	3.33 3.15 2.67	AS9536	4 Cyl.	STD
								AS9536010		0.50
								AS9536020		0.75
								AS9536030		1.00
4G31, 4G61	1595	4	1989-93	DOHC, 4G31, 4G61, Turbo	82.30	1.20 1.50 3.00	3.33 3.61 2.79	AS9537	4 Cyl.	STD
								AS9537010		0.50
								AS9537020		0.75
								AS9537030		1.00
4G52	1995 2000	4	1958-82		84.00	2.00 2.00 4.00	3.99 3.84 3.43	AS9538	4 Cyl.	STD
								AS9538010		0.50
								AS9538020		0.75
								AS9538030		1.00
								AS9538040		1.50
								AS9539		STD
								AS9539010		0.25
								AS9539020		0.50
								AS9539030		0.75
								AS9539040		1.00
								AS9539050		1.50
4G63, 4G63T	1998	4	2003-08	DOHC Vin:D,F 16V 4G63, 4G63T (turbo)	85.00	1.20 1.20 2.00	3.33 3.35 2.67	AS9540	4 Cyl.	STD
								AS9540010		0.50
								AS9540020		1.00

										
MITSUBISHI										
4G63, GTX	1997	4	1988-92	4G63, GTX, DOHC Turbo Thru 4/92	85.00	1.20	3.33	AS9541	4 Cyl.	STD
						1.50	3.43	AS9541010		0.25
						3.00	3.30	AS9541020		0.50
								AS9541030		0.75
								AS9541040		1.00
								AS9541050		0.25
4G63	1997	4	1992-97	DOHC, 16 Valve, 4G63 Incl. Turbo Begin 5/92, Shallow Oil Groove	85.00	1.20	3.33	AS9542	4 Cyl.	STD
						1.50	3.43	AS9542010		0.25
						3.00	2.67	AS9542020		0.50
								AS9542030		0.75
								AS9542040		1.00
								AS9542050		1.50
4G63	1997	4	1995-99	, 4G63 incl. Turbo	85.00	1.20	3.33	AS9543	4 Cyl.	STD
						1.50	3.43	AS9543010		0.50
						2.80	2.67	AS9543020		0.75
								AS9543030		1.00
								AS9543040		1.50
								AS9544		STD
								AS9544010		0.25
KE45, A G63B, 4G63	1498	4	1965-70	KE45	85.00	2.00	3.81	AS9545	4 Cyl.	STD
	1997		1983-88	A G63B		2.00	3.45	AS9545010		0.50
						4.00	3.43	AS9545020		0.75
								AS9545030		1.00
								AS9545040		1.50
								AS9546		STD
								AS9546010		0.50
								AS9546020		0.75
								AS9546030		1.00
								AS9546040		1.50
A 4G63, G63B	1997	4	1983-93	SOHC, A 4G63, G63B	85.00	1.50	3.43	AS9547	4 Cyl.	STD
						1.50	3.43	AS9547010		0.25
						4.00	3.81	AS9547020		0.50
								AS9547030		0.75
								AS9547040		1.00
								AS9547050		1.50
								AS9548		STD
								AS9548010		0.25
								AS9548020		0.50
								AS9548030		0.75
								AS9548040		1.00
								AS9548050		1.50
								AS9549		STD
								AS9549010		0.25
								AS9549020		0.50
								AS9549030		1.50
		4			86.00	1.20	3.33	AS9550	4 Cyl.	STD
						1.50	3.43	AS9550010		0.50
						2.00	2.79	AS9550020		0.75
4B11, 4B11T	1998	4	2009-12	4B11, 4B11T DOHC Lancer, Outlander Sport	86.00	1.20	3.33	AS9551	4 Cyl.	STD
						1.20	3.58	AS9551010		0.50
						2.00	2.79	AS9551020		0.75
								AS9551030		1.00

										
MITSUBISHI										
G64B, 4G64	2351	4	1985-92	G64B, 4G64	86.50	1.50	3.45	AS9552	4 Cyl.	STD
						1.50	3.45	AS9552010		0.50
						4.00	3.68	AS9552020		0.75
								AS9552030		1.00
								AS9552040		1.50
								AS9553		STD
								AS9553010		0.25
								AS9553020		0.50
								AS9553030		0.75
								AS9553040		1.00
4G64, G4JS, EF 2.4	2351	4	1993-04	16 Valve, Galant, RDS2, 4G64, G4JS Vin: G,Y DOHC, SOHC	86.50	1.20	3.33	AS9554	4 Cyl.	STD
						1.50	3.45	AS9554010		0.50
						2.80	2.79	AS9554020		0.75
								AS9554030		1.00
								AS9554040		1.50
4G64	2350	4	1992-96	Pickup 4G64	86.50	1.20	3.33	AS9555	4 Cyl.	STD
						1.50	3.45	AS9555010		0.25
						3.00	2.54	AS9555020		0.50
								AS9555030		0.75
								AS9555040		1.00
								AS9555050		1.50
4G69	2378	4	2004-12	4G69 SOHC Vin:F	87.00	1.20	3.33	AS9556	4 Cyl.	STD
						1.20	3.35	AS9556010		0.50
						2.00	2.54	AS9556020		0.75
420A	1997	4	1994-99	, Eclipse, 420A, A588	87.50	1.20	3.53	AS9557	4 Cyl.	STD
						1.20	3.33	AS9557010		0.25
						3.00	3.94	AS9557020		0.50
								AS9557030		0.75
								AS9557040		1.00
								AS9557050		1.50
6B31	2998	6	2007-12	Outlander, 6B31 SOHC	87.60	1.20	3.33	AS9558	6 Cyl.	STD
						1.00	3.35	AS9558010		0.75
						2.00	2.54	AS9558020		1.00
4B12	2359	4	2008-15	4B12 DOHC Lancer, Outlander	88.00	1.20	3.33	AS9559	4 Cyl.	STD
						1.20	3.33	AS9559010		0.50
						2.00	2.79	AS9559020		0.75
								AS9559030		1.00
6G72	2972	6	1987-02	181 CID, Montero, Pickup, 6G72 Vin: F,H,P	91.10	1.50	4.04	AS9560	6 Cyl.	STD
						1.50	4.06	AS9560010		0.25
						4.00	3.30	AS9560020		0.50
								AS9560030		0.75
								AS9560040		1.00
								AS9560050		1.50
								AS9561		STD
								AS9561010		0.25
								AS9561020		0.50
								AS9561030		0.75
								AS9561040		1.00
								AS9561050		1.50
6G72-T, 6G72	2972	6	1990-04	Diamante, 6G72 Incl. Turbo DOHC, SOHC, Vin:F	91.10	1.20	3.73	AS9562	6 Cyl.	STD
						1.50	4.06	AS9562010		0.50
						3.00	2.92	AS9562020		0.75
								AS9562030		1.00
								AS9562040		1.50

										
MITSUBISHI										
4G54	2555	4	1982-83	Thru March 1983, 4G54	91.10	2.00	3.71	AS9563	4 Cyl.	STD
						2.00	3.99	AS9563010		0.25
						4.00	3.30	AS9563020		0.50
								AS9563030		0.75
								AS9563040		1.00
								AS9563050		1.50
								AS9564		STD
								AS9564010		0.25
								AS9564020		0.50
								AS9564030		0.75
								AS9564040		1.00
								AS9564050		1.50
								AS9565		STD
								AS9565010		0.25
								AS9565020		0.50
								AS9565030		0.75
								AS9565040		1.00
								AS9565050		1.50
4D55, 4D56T	2346	4	1983-85	Diesel, 4D55 Incl. Turbo	91.10	2.50	4.04	AS9566	4 Cyl.	STD
				1986-On Diesel, 4D56T Incl. Turbo L4		2.00	4.06	AS9566010		0.50
				SOHC H-100, H-100 Van		4.00	4.24	AS9566020		0.75
								AS9566030		1.00
4G54	2555	4	1983-89	, April 1983-89, 4G54	91.10	1.50	3.58	AS9567	4 Cyl.	STD
						1.50	4.06	AS9567010		0.25
						4.00	3.81	AS9567020		0.50
								AS9567030		0.75
								AS9567040		1.00
								AS9567050		1.50
								AS9568		STD
								AS9568010		0.25
								AS9568020		0.50
								AS9568030		0.75
								AS9568040		1.00
								AS9568050		1.50
4D55T	2346		1980-86	Turbo Diesel, 4D55T	91.10	2.50	3.96	AS9569	1 Cyl.	STD
	2476		1987-08	Turbo Diesel, 4D56T		2.00	3.99	AS9569010		1.25
						4.00	4.24	AS9569020		2.50
4D55	2347		1983-86	Diesel, 4D55	91.10	2.50	3.96	AS9570	1 Cyl.	STD
						2.00	3.99			
						4.00	4.24			
4D55, 4D56	2347		1983-86	Diesel, 4D55	91.10	2.00	3.51	AS9571	1 Cyl.	STD
	2477		1986-07	Diesel, 4D56(8v)		2.00	3.99			
						4.00	4.24			
6G74	3497	6	1994-04	Montero, 6G74 SOHC DOHC	93.00	1.50	3.48	AS9572	6 Cyl.	STD
				Vin: P,4		1.50	3.78	AS9572010		0.50
						3.00	2.79	AS9572020		0.75
								AS9572030		1.00
								AS9573		STD
								AS9573010		0.50
								AS9573020		0.75
								AS9573030		1.00
4M40, FB501, FD511	2835	4		Diesel, 4M40 incl. Turbo	95.00	2.50	4.17	AS9574	4 Cyl.	STD
				FB501, FD511, Pajero		2.00	4.19	AS9574010		0.50
						4.00	5.31	AS9574020		1.00
6G75	3828	6	2003-05	6G75 SOHC Endeavor, Galant, Montero	95.00	1.20	3.53	AS9575	6 Cyl.	STD
						1.20	3.35	AS9575010		0.50
						2.00	2.92	AS9575020		0.75
								AS9575030		1.00

										
MORRIS										
	4	1963-66	Minor 1000, 1100, Mini-Cooper	64.57	1.60	3.00		AS9601	4 Cyl.	STD
					1.60	3.02		AS9601010		0.25
					1.60	3.02		AS9601020		0.50
					3.00	1.27		AS9601030		0.75
								AS9601040		1.00
								AS9601050		1.50
								AS9601060		2.00
								AS9601070		2.50
								AS9601080		3.00
								AS9602		STD
								AS9602010		0.25
								AS9602020		0.50
								AS9602030		0.75
								AS9602040		1.00
								AS9602050		1.50
	4	1963-66	J2 Series	73.03	1.60	3.10		AS9603	4 Cyl.	STD
					1.60	3.12		AS9603010		0.50
					1.60	3.12		AS9603020		0.75
					4.00	3.30		AS9603030		1.00
								AS9603040		1.50
NASH										
	6	1957	Rambler 5710	79.38	2.38	3.76		AS9701	6 Cyl.	STD
					2.38	3.78		AS9701010		0.50
					4.75	3.94		AS9701020		0.75
								AS9701030		1.00
								AS9701040		1.50
								AS9702		STD
								AS9702010		0.50
								AS9702020		0.75
								AS9702030		1.00
	6	1941-51	Ambassador 4160, At #N6-45310, 4260, 4660, 4760, 4860, 4960, 5060, 5160	85.73	2.38	4.04		AS9703	6 Cyl.	STD
					2.38	3.89		AS9703010		0.50
					4.00	4.39		AS9703020		0.75
					4.00	3.89				
	8	1956-57	Rambler 5720, Statesman 5650	88.90	2.00	4.19		AS9704	8 Cyl.	STD
					2.00	4.22		AS9704010		0.75
					4.75	1.27		AS9704020		1.00
								AS9704030		1.50
								AS9705		STD
								AS9705010		0.25
								AS9705020		0.50
								AS9705030		0.75
								AS9705040		1.00
								AS9706		STD
								AS9706010		0.75
								AS9706020		1.00

										
NASH										
	8	1956-57	Ambassador 5680, 5780, Rambler, Rebel 5730	101.60	2.00	4.78		AS9707	8 Cyl.	STD
					2.00	4.80		AS9707010		0.25
					4.75	4.88		AS9707020		0.50
								AS9707030		0.75
								AS9707040		1.00
								AS9707050		1.50
								AS9707060		1.75
								AS9707070		2.00
								AS9707080		2.50
								AS9708		STD
								AS9708010		0.25
								AS9708020		0.50
								AS9708030		0.75
								AS9708040		1.00
								AS9708050		1.50
								AS9708060		1.75
								AS9708070		2.00
								AS9709		STD
								AS9709010		0.13
								AS9709020		0.25
								AS9709030		0.50
								AS9709040		0.75
								AS9709050		1.00
								AS9709060		1.50
								AS9709070		1.75
								AS9709080		2.00
								AS9709090		2.50
NISSAN										
MA10, MA10ET	987	4	1982-On987cc MA10, MA10ET	68.00	1.50	2.59		AS9801	4 Cyl.	STD
					1.50	2.62		AS9801010		0.20
					2.80	3.30		AS9801020		0.50
MA10, MA10ET								AS9802		STD
								AS9802010		0.20
								AS9802020		0.25
								AS9802030		0.50
								AS9802040		0.75
MA12	1200	4	MA12 Micra	71.00	1.50	2.72		AS9803	4 Cyl.	STD
					1.50	3.33		AS9803010		0.50
					2.80	3.18		AS9803020		1.00
MA12								AS9804		STD
								AS9804010		0.20
								AS9804020		0.50
								AS9804030		0.75
								AS9804040		1.00
E10		4	E10	73.00	1.50	3.40		AS9805	4 Cyl.	STD
					1.50	3.07		AS9805010		0.25
					4.00	3.30		AS9805020		0.50
								AS9805030		0.75
								AS9805040		1.00
								AS9805050		1.50
2000 P130, WP130, A10, J13, J20		6	1966-69 2000 P130, WP130, A10, J13, J20	73.00	2.00	3.10		AS9806	6 Cyl.	STD
					2.00	3.12		AS9806010		0.50
					4.00	3.30		AS9806020		0.75
								AS9806030		1.00
								AS9807		STD
								AS9807010		0.50

										
NISSAN										
A10, A12, D11, E1, J, J13, 1200 L520, L521		4	1962-70	988cc, Engs. A10, A12, D11, E1, J Pickup, Sedan & Station Wagon; Sunny 1000, B10	73.00	2.00	2.84	AS9808	4 Cyl.	STD
	1171		1970-74	Model B110		2.00	2.87	AS9808010		0.50
	1189		1974	Model B110		4.00	3.30	AS9808020		0.75
	1288		1964-67	Model B210				AS9808030		1.00
	1288		1966-75	A10, D11, E1, J, P411, PL411				AS9808040		1.50
								AS9809		STD
								AS9809010		0.50
								AS9809020		0.75
								AS9809030		1.00
								AS9809040		1.50
	1400	4		GA14, GA14S, AD Ban	73.60	1.50	2.82	AS9810	4 Cyl.	STD
	1500			GA15, GA15A AD Ban		1.50	3.10	AS9810010		0.50
						2.80	2.67	AS9810020		STD
	1237	4	1979-82	210, A12A	75.00	2.00	3.45	AS9811	4 Cyl.	STD
						2.00	3.48	AS9811010		0.50
						4.00	3.94	AS9811020		0.75
								AS9811030		1.00
								AS9811040		1.50
								AS9812		STD
								AS9812010		0.25
								AS9812020		0.50
								AS9812030		0.75
								AS9812040		1.00
								AS9812050		1.50
								AS9812060		1.60
	1237	4	1979-On,	A12A Shallow Oil Ring Groove	75.00	2.00	3.45	AS9813	4 Cyl.	STD
						2.00	3.48	AS9813010		0.50
						4.00	2.92	AS9813020		0.75
								AS9813030		1.00
								AS9813040		1.50
								AS9814		STD
								AS9814010		0.25
								AS9814020		0.50
								AS9814030		0.75
								AS9814040		1.00
								AS9814050		1.50
	1397	4	1975-81	F10, 210, B210, 310; A12 & A14	76.00	2.00	3.20	AS9815	4 Cyl.	STD
						2.00	3.23	AS9815010		0.25
						4.00	3.68	AS9815020		0.50
								AS9815030		0.75
								AS9815040		1.00
								AS9815050		1.50
								AS9816		STD
								AS9816010		0.25
								AS9816020		0.50
								AS9816030		0.75
								AS9816040		1.00
								AS9816050		1.50
GA16, GA16DE, GA16I	1597	4	1989-94	GA16, GA16i, GA16DE	76.00	1.50	2.95	AS9817	4 Cyl.	STD
E16, GA16DE, GA16I	1597		1989-94			1.50	3.23	AS9817010		0.25
						2.80	3.30	AS9817020		0.50
								AS9817030		0.75
								AS9817040		1.00
								AS9818		STD
								AS9818010		0.25
								AS9818020		0.50
								AS9818030		0.75
								AS9818040		1.00

										
NISSAN										
GA16DS	1597	4		GA16DS	76.00	1.50	3.45	AS9819	4 Cyl.	STD
	1597					1.50	3.48	AS9819010		0.50
						3.00	3.94	AS9819020		1.00
								AS9820		STD
								AS9820010		0.50
								AS9820020		1.00
								AS9821	4 Cyl.	STD
GA16, GA16i, GA16DE	1597	4	1995-99	GA16, GA16i, GA16DE, 200SX 2 Ring Piston	76.00	1.50	3.20	AS9821010		0.25
						2.80	2.79	AS9821020		0.50
								AS9821030		0.75
								AS9821040		1.00
A14, A15	1397	4	1979-82	A14	76.00	1.20	3.33	AS9822	4 Cyl.	STD
	1488			A15 Engs. 210		2.00	3.48	AS9822010		0.25
						4.00	3.94	AS9822020		0.50
								AS9822030		0.75
								AS9822040		1.00
								AS9822050		1.50
E13, E15, E16	1270	4	1982-88	E13 E15	76.00	1.50	2.95	AS9823	4 Cyl.	STD
	1488			E15, E16 Engs. Sentra Series 310, Pulsar		1.50	3.48	AS9823010		0.25
						4.00	3.43	AS9823020		0.50
								AS9823030		0.75
								AS9823040		1.00
								AS9823050		1.50
								AS9824		STD
								AS9824010		0.25
								AS9824020		0.50
								AS9824030		0.75
								AS9824040		1.00
								AS9824050		1.50
								AS9825		STD
	1461		2003-06	K9K SOHC Turbo Diesel	76.00	2.00	3.30	AS9826	1 Cyl.	STD
						2.00	3.33	AS9826010		1.25
						2.50	3.30			
	1598	4	1983-On	CA16S	78.00	1.50	2.97	AS9827	4 Cyl.	STD
						1.50	3.38	AS9827010		0.25
						4.00	3.30	AS9827020		0.50
								AS9827030		0.75
								AS9827040		1.00
								AS9827050		1.50
								AS9828		STD
								AS9828010		0.25
								AS9828020		0.50
								AS9828030		0.75
								AS9828040		1.00
								AS9828050		1.50
								AS9829		STD
								AS9829010		0.25
								AS9829020		0.50
								AS9829030		0.75
								AS9829040		1.00
								AS9829050		1.50
HR16DE	1598	4	2009-15	HR16DE DOHC 16v March, Versa	78.00	1.20	2.92	AS9830	4 Cyl.	STD
						1.20	3.23	AS9830010		0.75
						2.00	2.67			

										
NISSAN										
CA16DE	1597	4	1987-88	CA16DE	78.00	1.50	2.97	AS9831	4 Cyl.	STD
						1.50	3.71	AS9831010		0.25
						2.80	3.18	AS9831020		0.50
								AS9831030		0.75
								AS9831040		1.00
								AS9832		STD
								AS9832010		0.25
								AS9832020		0.50
								AS9832030		0.75
								AS9832040		1.00
L20A	1988	6	1969-70	L20A	78.00	2.00	3.68	AS9833	6 Cyl.	STD
						2.00	3.71	AS9833010		0.50
						4.00	3.18	AS9833020		1.00
HR12DE	1198			MARCH, DATSUN GO	78.00	1.20	2.92	AS9834	3 Cyl.	STD
						1.20	3.23			
						2.00	2.67			
VG20E, VG20ET	1998	6	1986-93	VG20E RB20DET Skyline	78.00	1.50	2.97	AS9835	6 Cyl.	STD
	1998		1986-93	VG20ET		1.50	3.71	AS9835010		0.25
						2.80	3.18	AS9835020		0.50
								AS9835030		0.75
								AS9835040		1.00
								AS9836		STD
								AS9836010		0.25
								AS9836020		0.50
								AS9836030		0.75
								AS9836040		1.00
J-15, J-16	1483	4	1970-72		78.00	2.00	3.35	AS9837	4 Cyl.	STD
				1500		2.00	3.71	AS9837010		1.00
						4.00	4.11			
	1567									
								AS9838		STD
								AS9838010		0.50
								AS9838020		0.75
								AS9838030		1.00
	1595	4	2002-On	Platina, Renault Eng made in Mexico	79.50	1.20	3.33	AS9839	4 Cyl.	STD
						1.50	3.43	AS9839010		0.25
						2.50	2.92	AS9839020		0.50
								AS9839030		0.75
QG18DE	1769	4	2000-04	QG18DE DOHC Sentra XE/ GXE	80.00	1.20	3.12	AS9840	4 Cyl.	STD
						1.20	3.20	AS9840010		0.50
						2.50	2.79	AS9840020		0.75
								AS9840030		1.00
CD17	1680	4	1983-88	Diesel Pulsar NX, CD17	80.00	1.75	3.68	AS9841	4 Cyl.	STD
						2.00	3.71	AS9841010		0.50
						3.00	3.68	AS9841020		0.75
								AS9841030		1.00
	1488	4	1963-65	, G, SP L .310U; '65 Fair Lady	80.00	2.00	3.18	AS9842	4 Cyl.	STD
						2.00	3.71	AS9842010		0.50
						4.00	3.81	AS9842020		0.75
								AS9842030		1.00
								AS9842040		1.50
								AS9843		STD
								AS9843010		0.50
								AS9843020		0.75
								AS9843030		1.00
	1870		2002-03	Diesel F9Q 780 800	80.00	2.50	3.51	AS9844	1 Cyl.	STD
						2.00	3.53			
						3.00	3.68			

										
NISSAN										
	1800	4	1981-OnJ18, Mexican Built		80.50	1.50	3.18	AS9845	4 Cyl.	STD
						2.00	3.20	AS9845010		0.25
						4.00	1.27	AS9845020		0.50
								AS9845030		0.75
								AS9845040		1.00
								AS9845050		1.50
								AS9846		STD
								AS9846010		0.25
								AS9846020		0.50
								AS9846030		0.75
								AS9846040		1.00
								AS9846050		1.50
NA16S	1627	4	1994-OnNA16S		81.50	1.50	3.23	AS9847	4 Cyl.	STD
						1.50	3.23	AS9847010		0.50
						4.00	3.30	AS9847020		1.00
	1809	4	1984-89 CA18DE, CA18ET Turbo		83.00	1.50	3.20	AS9848	4 Cyl.	STD
						1.50	3.25	AS9848010		0.50
						2.80	3.30	AS9848020		1.00
CA18DE, CA18ET Turbo	1809		1984-89					AS9849		STD
								AS9849010		0.25
								AS9849020		0.50
								AS9849030		0.75
								AS9849040		1.00
				CN33 4 Cyl., CN6-33 6 Cyl., SD33 6 Cyl., Chrysler Diesel 5 ring piston	83.00	2.50	3.53	AS9850	2 Cyl.	STD
						2.00	3.35			
						2.00	3.35			
						4.50	4.14			
						4.50	3.81			
	1809	4	1978-OnCA18E,S 1800 Series Auster, Bluebird, Laurel, Prairie		83.00	1.50	3.20	AS9851	4 Cyl.	STD
						1.50	3.25	AS9851010		0.50
						4.00	3.43			
CA18E								AS9852		STD
								AS9852010		0.50
								AS9852020		1.00
SD20, SD22	2164	4	1980-83 Diesel, Pickup, SD20, SD22 SD20, SD22 Engs. Diesel 3 ring piston		83.00	2.50	3.53	AS9853	4 Cyl.	STD
						2.00	3.35	AS9853010		0.25
						4.50	4.14	AS9853020		0.50
								AS9853030		0.75
								AS9853040		1.00
								AS9853050		1.50
	2393	6	1981 810, L24E		83.00	1.50	3.20	AS9854	6 Cyl.	STD
						2.00	3.81	AS9854010		0.50
						4.00	4.62	AS9854020		0.75
								AS9854030		1.00
L24E								AS9855		STD
								AS9855010		0.50
								AS9855020		0.75
								AS9855030		1.00
	2393	6	1982-85 Maxima 810, L24E-2		83.00	1.50	3.20	AS9856	6 Cyl.	STD
						1.50	3.25	AS9856010		0.50
						4.00	3.43	AS9856020		0.75
								AS9856030		1.00
L24E-2								AS9857		STD
								AS9857010		0.50
								AS9857020		0.75
								AS9857030		1.00
								AS9857040		1.50
								AS9858		STD
								AS9858010		0.50
								AS9858020		0.75
								AS9858030		1.00

										
NISSAN										
	6			CN6-33 SD33 Chrysler diesel 5 ring piston	83.00	2.50	3.53	AS9859	6 Cyl.	STD
						2.00	3.56	AS9859010		0.50
						2.00	3.35	AS9859020		1.00
						4.50	4.14			
						4.50	3.81			
	1296	4	1973-74	PL521 Pickup Bluebird 1300, 1600, P510; L13, L16	83.00	2.00	3.78	AS9860	4 Cyl.	STD
	1428		1968-73	Engs. 620, Engs. 510 Series		2.00	3.81	AS9860010		0.25
	1595		1968-73	Engs. 620, Engs. 510 Series		4.00	4.24	AS9860020		0.50
								AS9860030		0.75
								AS9860040		1.00
PL521								AS9861		STD
								AS9861010		0.25
								AS9861020		0.50
								AS9861030		0.75
								AS9861040		1.00
L24, L26	2393	6	1970-80	L26 Engs. HLS 30, 240Z, 260Z	83.00	2.00	3.78	AS9862	6 Cyl.	STD
	2565			L26 Engs. HLS 30, 240Z, 260Z		2.00	3.81	AS9862010		0.25
	2400		1978-80	810		4.00	3.43	AS9862020		0.50
								AS9862030		0.75
								AS9862040		1.00
								AS9863		STD
								AS9863010		0.25
								AS9863020		0.50
								AS9863030		0.75
								AS9863040		1.00
SD20, SD22		4		SD20, SD22 Engs. Diesel, Cedric, Echo Microbus 5 ring piston	83.00	2.50	3.53	AS9864	4 Cyl.	STD
						2.00	3.56	AS9864010		0.25
						2.00	3.35	AS9864020		0.50
						4.50	4.14	AS9864030		0.75
						4.50	3.81	AS9864040		1.00
MR18DE, MR20DE	1797	4	2007-12	MR18DE, DOHC, Tiida, Verso	84.00	1.20	2.92	AS9865	4 Cyl.	STD
	1999		2007-12	MR20DE DOHC 16V Sentra		1.20	3.33	AS9865010		0.50
						2.00	2.92	AS9865020		0.75
								AS9865030		1.00
M9R	1995		2006-07	Turbo Diesel M9R	84.00	2.50	3.51	AS9866	1 Cyl.	STD
						2.00	3.43	AS9866010		0.50
						2.00	2.87			
CA20E	1974	4	1989	CA20DE	84.50	1.50	3.43	AS9867	4 Cyl.	STD
						1.50	3.84	AS9867010		0.50
						2.80	3.18	AS9867020		0.75
								AS9867030		1.00
CA20DE	1974		1989					AS9868		STD
								AS9868010		0.50
								AS9868020		0.75
								AS9868030		1.00
CD20	1974	4		CD20 Diesel	84.50	2.00	3.81	AS9869	4 Cyl.	STD
						2.00	3.45	AS9869010		0.50
						3.00	3.84	AS9869020		1.00
CA20E, CA20S	1974	4	1982-88	Stanza NAP X, CA20E, CA20S	84.50	1.50	3.43	AS9870	4 Cyl.	STD
						1.50	3.84	AS9870010		0.50
						4.00	3.94	AS9870020		0.75
								AS9870030		1.00
								AS9870040		1.50
								AS9871		STD
								AS9871010		0.50
								AS9871020		0.75
								AS9871030		1.00

										
NISSAN										
LD28	2793	6	1982-84	Diesel Maxima, LD28	84.50	2.00	3.81	AS9872	6 Cyl.	STD
						2.00	3.45	AS9872010		0.50
						4.00	4.04	AS9872020		0.75
								AS9872030		1.00
Z20	1952	4	1985	Z20	85.00	2.00	3.43	AS9873	4 Cyl.	STD
						1.50	3.43	AS9873010		0.50
						4.00	3.43	AS9873020		0.75
								AS9873030		1.00
RD28		6		2800CC Turbo Diesel, RD28	85.00	2.00	3.81	AS9874	6 Cyl.	STD
						2.00	3.45	AS9874010		0.50
						4.00	4.04	AS9874020		1.00
L18, Z20, L20B	1770	4	1973-74	L18 610 Sedan 1800	85.00	2.00	3.81	AS9875	4 Cyl.	STD
	1952		1974-80	200SX, 510, 610, 620 Pickup, 710, 2000 Series, L20B		2.00	4.04	AS9875010		0.50
	1952		1974-80	200SX, L18, Z20		4.00	4.11	AS9875020		0.75
								AS9875030		1.00
								AS9875040		1.50
								AS9876		STD
								AS9876010		0.50
								AS9876020		0.75
								AS9876030		1.00
								AS9876040		1.50
Z20, G63B,	1952	4	1980-84	200SX, NAP-Z, Z20	85.00	1.50	3.43	AS9877	4 Cyl.	STD
						1.50	3.43	AS9877010		0.25
						4.00	3.81	AS9877020		0.50
								AS9877030		0.75
								AS9877040		1.00
								AS9877050		1.50
								AS9878		STD
								AS9878010		0.25
								AS9878020		0.50
								AS9878030		0.75
								AS9878040		1.00
								AS9878050		1.50
								AS9879		STD
								AS9879010		0.25
								AS9879020		0.50
								AS9879030		1.50
P41	3956	6	1963-82	3956 cu. in., P, P40 Forklift Nissan Partol Model 60	85.70	2.50	4.04	AS9880	6 Cyl.	STD
	3956			P40 Forklift		2.50	4.06	AS9880010		0.25
						4.75	1.27	AS9880020		0.50
								AS9880030		0.75
								AS9880040		1.00
								AS9880050		1.50
								AS9881		STD
								AS9881010		0.25
								AS9881020		0.50
								AS9881030		0.75
								AS9881040		1.00
								AS9881050		1.50
1Y, 2Y, 3Y	1996	4	1997-On	LWB, SWB Hardbody	86.00	1.50	3.45	AS9882	4 Cyl.	STD
						1.50	3.78	AS9882010		0.50
						4.00	3.43	AS9882020		0.75
								AS9882030		1.00
								AS9882040		1.50
								AS9883		STD
								AS9883010		0.25
								AS9883020		0.50
								AS9883030		0.75
								AS9883040		1.00
								AS9883050		1.50
								AS9884		STD
								AS9884010		0.50
								AS9884020		0.75
								AS9884030		1.00

										
NISSAN										
L28E, L28	2753	6	1975-80	280Z, 280ZX, L28E	86.00	2.00	4.04	AS9885	6 Cyl.	STD
L28E	2753		1975-80			2.00	3.45	AS9885010		0.50
						4.00	4.50	AS9885020		0.75
								AS9885030		1.00
								AS9885040		1.50
								AS9886		STD
								AS9886010		0.50
								AS9886020		0.75
								AS9886030		1.00
C 22 SED, X 22S E, D-TEC, 1998 LPG 2.0, C20NE, C20SE, SR20DE		4	1991-00	SR20DE Vin:G	86.00	1.50	3.45	AS9887	4 Cyl.	STD
						1.50	3.43	AS9887010		0.50
						3.00	3.81	AS9887020		0.75
								AS9887030		1.00
								AS9887040		1.50
								AS9888		STD
								AS9888010		0.25
								AS9888020		0.50
								AS9888030		0.75
								AS9888040		1.00
								AS9888050		1.50
RB30E	3000	6		RB30E	86.00	1.50	3.45	AS9889	6 Cyl.	STD
						1.50	3.78	AS9889010		0.50
						2.80	3.30	AS9889020		1.00
								AS9890		STD
								AS9890010		0.50
								AS9891		STD
								AS9891010		0.50
								AS9891020		0.75
								AS9891030		1.00
L28E	2753	6	1981-83	280ZX, L28E, w/o Turbo	86.00	1.50	3.45	AS9892	6 Cyl.	STD
L28E	2753		1981-83			2.00	3.45	AS9892010		0.50
						4.00	3.81	AS9892020		0.75
								AS9892030		1.00
								AS9893		STD
								AS9893010		0.50
								AS9893020		0.75
								AS9893030		1.00
								AS9893040		1.50
L28ET		6	1981-83	280ZX Turbo, L28ET	86.00	1.50	3.86	AS9894	6 Cyl.	STD
						2.00	3.45	AS9894010		0.50
						4.00	3.81	AS9894020		0.75
								AS9894030		1.00
Z22E, Z23	2187	4	1981-84	Pickup, Z22	87.00	1.50	3.61	AS9895	4 Cyl.	STD
	2187		1982-83	200SX, Z22, Z22E		1.50	3.94	AS9895010		0.25
						4.00	3.43	AS9895020		0.50
								AS9895030		0.75
								AS9895040		1.00
								AS9895050		1.50
								AS9896		STD
								AS9896010		0.25
								AS9896020		0.50
								AS9896030		0.75
								AS9896040		1.00
								AS9897		STD
								AS9897010		0.25
								AS9897020		0.50
								AS9897030		0.75
								AS9897040		1.00

										
NISSAN										
	2960	6	1984-98	300ZX, VG30E, VG30DE, VG30DETT Incl. Turbo	87.00	1.50	3.33	AS9898	6 Cyl.	STD
						1.50	4.14	AS9898010		0.50
						2.80	3.30	AS9898020		0.75
								AS9898030		1.00
								AS9899		STD
								AS9899010		0.50
								AS9899020		0.75
								AS9899030		1.00
VG30E, VG30i	2960	6	1985-93	Pathfinder & Pickup, VG30E, VG30i	87.00	2.00	3.61	AS98100	6 Cyl.	STD
	3000		1985-95	F.L. Pickup, Pathfinder		1.50	4.14	AS98100010		0.50
						2.80	3.30	AS98100020		0.75
G9T.720,	2188		2002-On	Turbo Diesel G9T 720, 722, 750	87.00	3.00	3.81	AS98100030		1.00
						1.75	3.84	AS98101	1 Cyl.	STD
						2.50	3.33			
R16	1595	4	1968-74	R16	87.20	2.00	4.11	AS98102	4 Cyl.	STD
	1982			H20, H Engs. SPL311, PL411		2.50	4.14	AS98102010		0.50
				H20 Cedric 2000, 130		4.00	4.75	AS98102020		0.75
								AS98102030		1.00
								AS98102040		1.50
								AS98103		STD
								AS98103010		0.50
								AS98103020		0.75
								AS98103030		1.00
								AS98103040		1.50
Z24i	2389	4	1985-90	720, D21 Pathfinder Van, 240SX, Z24i	89.00	2.00	3.38	AS98104	4 Cyl.	STD
						1.50	4.01	AS98104010		0.25
						4.00	1.27	AS98104020		0.50
								AS98104030		0.75
								AS98104040		1.00
								AS98104050		1.50
								AS98105		STD
								AS98105010		0.25
								AS98105020		0.50
								AS98105030		0.75
								AS98105040		1.00
								AS98105050		1.50
								AS98106		STD
								AS98106010		0.25
								AS98106020		0.50
								AS98106030		0.75
								AS98106040		1.00
QR25	2488	4	2007-10	QR25 w/2.00mm oil grv.	89.00	1.20	2.92	AS98107	4 Cyl.	STD
						1.20	3.68	AS98107010		0.25
						2.00	2.54	AS98107020		0.50
								AS98107030		0.75
								AS98107040		1.00
KA24D, KA24E, KA24DE	2389	4	1989-98	240SX, KA24D, KA24E, KA24DE	89.00	1.50	3.38	AS98108	4 Cyl.	STD
						1.50	4.01	AS98108010		0.25
						2.80	3.30	AS98108020		0.50
								AS98108030		0.75
								AS98108040		1.00
								AS98109		STD
								AS98109010		0.25
								AS98109020		0.50
								AS98109030		0.75
								AS98109040		1.00
								AS98109050		1.50
KA24DE, QR25DE	2389	4	1999-04	KA24DE, DOHC	89.00	1.20	3.33	AS98110	4 Cyl.	STD
			2000-06	QR25DE Altima, Sentra SR-E w/2.5mm oil grv.		1.20	3.68	AS98110010		0.25
						2.50	3.05	AS98110020		0.50
								AS98110030		0.75
								AS98110040		1.00

										
NISSAN										
Z24	2389	4	1983-84	Z24	89.00	1.50	3.38	AS98111	4 Cyl.	STD
						1.50	4.01	AS98111010		0.50
						4.00	1.27	AS98111020		0.75
								AS98111030		1.00
								AS98112		STD
								AS98112010		0.50
								AS98112020		0.75
								AS98112030		1.00
SD23, SD25 new ,	2488	4	1983-88	Diesel, SD25	89.00	2.50	3.63	AS98113	4 Cyl.	STD
						2.00	3.99	AS98113010		0.50
						4.50	4.14	AS98113020		0.75
G9U 720	2463		2002-03	Diesel G9U 720, 730 Euro 3	89.00	3.00	3.86	AS98113030		1.00
						1.75	3.89	AS98114	1 Cyl.	STD
						2.50	3.33			
G9U	2463		2002-On	Turbo Diesel G9U	89.00	2.50	3.86	AS98115	1 Cyl.	STD
						1.75	3.89			
						2.50	3.33			
, YD25, YD25 DDT, YD25 DDTi,		4		YD25 DDTi D22 diesel Bassara, Cabstar, Fontier, Navara, Pathinder, Presage, Terrano	89.00	2.00	3.20	AS98116	4 Cyl.	STD
						3.00	3.55	AS98116010		0.50
VG33	3275	6	1996-04	VG33, Pathinder, QX4	91.50	1.50	3.45	AS98117	6 Cyl.	STD
						1.50	4.06	AS98117010		0.50
						2.80	2.79	AS98117020		0.75
								AS98117030		1.00
		4		H25 Model	92.00	2.00	4.32	AS98118	4 Cyl.	STD
						2.50	4.34	AS98118010		0.25
						4.00	3.43	AS98118020		0.50
								AS98118030		0.75
								AS98118040		1.00
								AS98118050		1.50
								AS98119		STD
								AS98119010		0.25
								AS98119020		0.50
								AS98119030		0.75
								AS98119040		1.00
								AS98119050		1.50
								AS98120		STD
								AS98120010		0.25
								AS98120020		0.50
								AS98120030		0.75
								AS98120040		1.00
								AS98120050		1.50
VQ30DE	2987	6	1995-01	V6, DOHC, Maxima, VQ30DE	93.00	1.20	3.73	AS98121	6 Cyl.	STD
						1.20	3.81	AS98121010		0.25
						2.50	2.79	AS98121020		0.50
								AS98121030		0.75
								AS98121040		1.00
								AS98122		STD
								AS98122010		0.25
								AS98122020		0.50
								AS98122030		0.75
								AS98122040		1.00
VQ30DE, VQ40DE	3498	6	2001-10	VQ35DE, DOHC	95.50	1.20	3.73	AS98123	6 Cyl.	STD
	3954		2005-11	VQ40DE, DOHC Pathinder, Xterra		1.20	3.81	AS98123010		0.50
						2.50	2.92	AS98123020		0.75
								AS98123030		1.00

										
NISSAN										
VQ35HR, VQ35DE, VQ40DE,	3498	6	2007-12	VQ35HR, VQ35DE DOHC 24V Altima, Maxima, Murano, 350Z Roadster	95.50	1.20	3.12	AS98124	6 Cyl.	STD
	3699		2009-14	VQ37VHR DOHC 370Z		1.20	3.81	AS98124010		0.50
	3954		2012-05	VQ40DE, DOHC Frontier, Pathfinder, Xterra		2.00	2.92	AS98124020		0.75
, TB42, TB42E	4169	6	1987-On	TB42, TB42S Patrol Australian	96.00	2.00	3.71	AS98124030		1.00
						2.00	4.22	AS98125	6 Cyl.	STD
						4.00	3.81	AS98125010		0.50
								AS98125020		1.00
								AS98126		STD
								AS98126010		0.50
								AS98126020		0.75
								AS98126030		1.00
								AS98126040		1.50
	4169	6	1987-On	TD42, Patrol Diesel Australian	96.00	2.50	4.19	AS98127	6 Cyl.	STD
						2.00	4.22			
						4.00	4.14			
VK56, VK56DE	5552	8	2004-10	VK56, VK56DE, QX56 Vin: U DOHC Armada, Titan	98.00	1.50	3.45	AS98128	8 Cyl.	STD
						1.50	4.01	AS98128010		0.50
						2.50	2.67	AS98128020		0.75
								AS98128030		1.00
								AS98129		STD
								AS98129010		0.50
								AS98129020		0.75
								AS98129030		1.00
TB45DE, TB48DE		6		TB45DE, TB48DE gas engine	99.50	2.00	3.58	AS98130	6 Cyl.	STD
						1.50	4.24	AS98130010		0.50
						4.00	3.94	AS98130020		1.00
								AS98131		STD
								AS98131010		0.50
								AS98131020		1.00
ED33	3298	4		ED33 Diesel	100.00	3.00	4.34	AS98132	4 Cyl.	STD
						2.00	4.37	AS98132010		0.50
						4.50	4.14			
ED6, FD6	5654	6		ED6, FD6	100.00	3.00	4.34	AS98133	6 Cyl.	STD
						2.00	4.37	AS98133010		0.50
						4.50	4.62			
NORTON										
	745			745cc OHV Atlas, P11, P11A, N15CS, Commando	73.00	1.60	3.10	AS9901	2 Cyl.	STD
						1.60	3.12	AS9901010		0.50
						4.00	3.30	AS9901020		1.00
								AS9901030		1.50
NSU										
				NSU Prinz	75.00	2.00	3.45	AS10001	2 Cyl.	STD
						2.00	3.48	AS10001010		1.00
						4.00	3.94			
								AS10002		STD
	598			598cc NSU Prinz 1V Sport, Prinz 1VL	76.00	2.00	3.45	AS10003	2 Cyl.	STD
						2.00	3.48	AS10003010		0.25
						4.00	3.94	AS10003020		0.50

										
OLIVER-WHITE MOTORS										
	6			70HC, 70KD Engines Genuine Sleeve Kit S190 McQuay Norris SA182 Sealed Power SL 1810 Thompson Piston #L17733 White Mach. G218HCH	82.55	2.38	3.89	AS10004	6 Cyl.	STD
						2.38	3.91	AS10004010		1.00
						4.00	4.39	AS10004020		1.50
						4.00	3.91			
								AS10005		STD
	4			66 Gas & Diesel, 66HC; 166D Ind.	84.14	3.18	3.81	AS10006	4 Cyl.	STD
						3.18	3.84			
						3.18	3.84			
						6.35	4.55			
	4			Super 55, 55HC; Super 66, 66HC; 550 Gas & * Diesel	88.90	3.18	3.96	AS10007	4 Cyl.	STD
						3.18	3.66			
						3.18	3.66			
						4.75	1.27			
				GO130 Gas ,Herc. OC4-3G	88.90	2.38	4.19	AS10008	3 Cyl.	STD
						3.18	3.66			
						4.75	1.27			
						4.75	3.99			
								AS10009		STD
	4			66D, 66HC, Ind. 166D Engines McQuay Norris Sleeve Kit #AS164	88.90	2.38	4.19	AS10010	4 Cyl.	STD
						2.38	3.99			
						2.38	3.99			
						6.35	4.62			
	6			Super 77, 77KD Gas & Diesel 88, 88HC Diesel 770 Gas, LPG & Diesel 77, 77D, 77HC, Ind. 177D Engines M & W Sleeve Kit	88.90	3.18	3.96	AS10011	6 Cyl.	STD
						3.18	3.66			
						3.18	3.66			
						4.75	4.24			
	4			Super 55, Super 66 Gas & Diesel; 66KD Dist.; *166HC Ind.	88.90	3.18	3.96	AS10012	4 Cyl.	STD
				66D, 66HC, Ind. 166D Engines Allied WSA192 Superior Piston A1084 White Mach. G226HCH, G226AHCH		3.18	3.66			
						3.18	3.66			
						6.35	4.62			

										
OLIVER-WHITE MOTORS										
		6		Super 77, 77HC, 77KD, Ind., Gas & Diesel	88.90	3.18	3.96	AS10013	6 Cyl.	STD
				88, 88HC, Gas, LPG & Diesel		3.18	3.66			
				177HC Ind., 188D		3.18	3.66			
				77, 77D, 77HC, Ind. 177D Engines Allied WSA192 White Machine G226HCH, G226AHCH		6.35	4.62			
								AS10014		STD
								AS10015		STD
		4		66D, 66HC, Ind. 166D Engines Genuine Sleeve Kit	90.49	2.38	4.27	AS10016	4 Cyl.	STD
						2.38	4.29			
						2.38	4.29			
						6.35	4.62			
		6		77, 77D, 77HC, Ind. 177D Engines Genuine Sleeve Kit	90.49	2.38	4.27	AS10017	6 Cyl.	STD
						2.38	4.29			
						2.38	4.29			
						6.35	4.75			
		6		248 Gas 1600	92.08	2.38	4.06	AS10018	6 Cyl.	STD
						2.38	4.09	AS10018010		0.50
						4.75	1.27	AS10018020		0.75
								AS10019		STD
		4		155 Gas & Diesel 2-44 550 & 660 Gas & Diesel	92.08	2.38	4.06	AS10020	4 Cyl.	STD
						2.38	4.09			
						2.38	4.09			
						4.75	4.62			
								AS10021	4 Cyl.	STD
		6		232 Gas & Diesel 2-62; 1550 Gas, LPG Diesel	92.08	2.38	4.32	AS10022	6 Cyl.	STD
						2.38	4.09			
						2.38	4.09			
						4.75	4.34			
		4		Super 55, 55D, 66, 66D, 66KD, 166HC Permite Sleeve Kit #CSA245	95.25	3.18	4.17	AS10023	4 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						6.35	4.85			

										
OLIVER-WHITE MOTORS										
	6			Super 88, 88KD, 880 Gas & Diesel, 1600 Diesel *	95.25	3.18	3.91	AS10024	6 Cyl.	STD
				Super 77, 77D, 77HC, 77KD, 88D, 88HC, Ind. * 166HC, Ind., 188D White Mach. G225AHCH M & W Sleeve Kit SP123		3.18	3.94			
						3.18	3.94			
						4.75	4.45			
				OC4 Gas	95.25	2.38	4.47	AS10025	1 Cyl.	STD
						3.18	3.94			
						4.75	1.27			
						4.75	4.19			
	6			Super 77, Super 77D, 77KD, 88D, 88HC, 770, * 770D Engines McQuay Norris Kit #SA166, 202, 224, 227	95.25	2.38	4.47	AS10026	6 Cyl.	STD
						2.38	4.50			
						2.38	4.50			
						6.35	4.88			
	6			265 Gas 2-78, 4-78	95.25	2.38	4.47	AS10027	6 Cyl.	STD
				265 Gas 1650		2.38	4.50			
						4.75	1.27			
	4			Super 55, 55D, 66, 66D, 66KD, 166HC McQuay Norris Sleeve Kit #SA202, 224 Allied Sleeve Kit #WSA245	95.25	2.38	4.47	AS10028	4 Cyl.	STD
				Super 55, 550 McQuay Norris Sleeve Kit #SP117		2.38	4.50			
				155HC, 166HC Engines McQuay Norris Sleeve Kit SA202, SA224		2.38	4.50			
						6.35	4.88			
	4			Super 55, 55D, 66, 66D, 66KD, 166HC Allied Sleeve Kit #WSA283, 288 Permite Sleeve Kit #CSA283, 288	95.25	3.18	4.17	AS10029	4 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	1.27			
	6			1800 Gas	95.25	2.38	4.47	AS10030	6 Cyl.	STD
						2.38	4.50			
						2.38	4.50			
						4.75	1.27			
	6			77KD Dist., Super 77 Gas & Diesel	95.25	3.18	4.17	AS10031	6 Cyl.	STD
				Super 88 Gas & Diesel, 88 Diesel, 88HC, 88KD Dist.*		3.18	3.94			
				177HC Ind., 188D, 188HC Ind.		3.18	3.94			
				Super 77, 77D, 77HC, 77KD, 88D, 88HC, Ind. * 166HC, Ind., 188D M&W Gear SP18D Sealed Power SL1811 Thompson SA176		6.35	4.88			

										
OLIVER-WHITE MOTORS										
		6		1750G Gas to S/N 147260	98.43	2.38	4.62	AS10032	6 Cyl.	STD
						2.38	3.99	AS10032010		0.25
						4.75	4.88	AS10032020		0.50
								AS10032030		0.75
								AS10032040		1.00
								AS10032050		1.50
								AS10032060		2.00
								AS10033		STD
								AS10033010		0.25
								AS10033020		0.50
								AS10033030		0.75
								AS10033040		1.00
								AS10033050		1.50
								AS10033060		2.00
								AS10034		STD
								AS10034010		0.25
								AS10034020		0.50
								AS10034030		0.75
								AS10034040		1.00
								AS10034050		1.50
								AS10034060		2.00
		6		Super 88 Diesel M&W Sleeve Assembly SP381D	98.43	2.38	4.62	AS10035	6 Cyl.	STD
				1600 Gas M&W Sleeve Kit		2.38	3.99			
				SP419 To Increase Bore from 3 1/2		2.38	3.99			
						4.75	4.88			
						4.75	4.32			
								AS10036		STD
				2-105, 4-105 Diesel; 352 Diesel Perkins	98.43	2.38	3.96	AS10037	6 Cyl.	STD
						2.38	3.99			
						2.38	3.99			
						6.35	2.21			
						6.35	3.48			
		6		1750, 1755, 1800, 1850 Gas; 1650, 1800 Series * Diesel 3 Ring Piston	98.43	2.38	4.62	AS10038	6 Cyl.	STD
						2.38	3.99			
						4.75	4.88			
		6		1855D, 1955	98.43	3.00	4.29	AS10039	6 Cyl.	STD
				1950T Diesel Turbo		2.38	3.99			
						4.75	4.88			
		6		283 Diesel 2-78, 4-78; 4-105 Gas	98.43	2.38	4.62	AS10040	6 Cyl.	STD
				1650, 1800 Diesel, 1850 Gas		2.38	3.99			
						2.38	3.99			
						4.75	4.45			
		6		99D, 99HC, Super 99	101.60	3.18	4.39	AS10041	6 Cyl.	STD
				199D Ind., 199HC Ind., 950 Gas & Diesel		3.18	4.11			
						3.18	4.11			
						4.75	4.88			

										
OLIVER-WHITE MOTORS										
	4			80 HC	114.30	4.75	4.83	AS10042	4 Cyl.	STD
						4.75	4.85			
						4.75	4.85			
						4.75	5.08			
								AS10043	4 Cyl.	STD
	4				73.60	1.50	2.82	AS10044	4 Cyl.	STD
						1.50	3.10			
						2.80	2.67			
				OTC, OTC44GN	69.85	2.38	2.69	AS10045	2 Cyl.	STD
						2.38	2.72	AS10045010		0.25
						4.75	3.81	AS10045020		0.50
								AS10045030		0.75
				VFA-W4, W2C, W2S, W3M, W3S	76.20	2.38	3.45	AS10046	2 Cyl.	STD
						2.38	3.48			
						3.18	3.48			
						4.75	2.21			
				B48G model 20 HP GA020/3707E	82.55	2.00	3.89	AS10047	2 Cyl.	STD
						2.00	3.91	AS10047010		0.25
						4.75	1.27			
				CCK, CCKM, MF/471C	82.55	2.38	3.89	AS10048	2 Cyl.	STD
						2.38	3.91	AS10048010		0.50
						4.75	1.27	AS10048020		1.00
				CCK, CCKA, CCKB, J60, JB, VB	82.55	2.38	3.89	AS10049	1 Cyl.	STD
				J30, LK		2.38	3.91	AS10049010		0.50
				J120, JC, K120		4.75	1.27	AS10049020		0.75
								AS10049030		1.00
								AS10050		STD
				NH, NHC	90.49	2.38	4.27	AS10051	2 Cyl.	STD
						2.38	4.29			
						4.75	4.62			
				NHC Late Design	90.49	2.00	4.01	AS10052	1 Cyl.	STD
						2.00	4.29	AS10052010		0.25
						4.75	4.62	AS10052020		0.50
OPEL										
	1248	2003-05		Turbo Diesel DOHC A13DTC, A13DTR, A13FD Y13DT, Z13DTH	69.60	2.00	3.05	AS10101	1 Cyl.	STD
						1.50	3.07	AS10101010	1 Cyl.	0.40
						2.00	2.90	AS10101020	1 Cyl.	0.60
	1196	4		Corsa 12NZ, C12NZ, X12SZ	72.00	1.50	3.38	AS10102	4 Cyl.	STD
						1.50	3.40	AS10102010		0.50
						3.00	3.30			
Z12XE, X12XE	1199		1998-00	ASTRA, AGILA, CORSA	72.50	1.20	3.12	AS10103	1 Cyl.	STD
X10XE, Z10XE	973		1996-00	AGILA, CORSA		1.50	3.07	AS10103010		0.50
						2.00	2.92			

										
OPEL										
								AS10104	STD	
								AS10104010	0.25	
								AS10104020	0.50	
	1389	4	2006-On	Z1.4XEP Astra, Corsa, Meriva	73.40	1.20	2.92	AS10105	4 Cyl.	STD
						1.20	3.07	AS10105010	0.50	
						2.00	2.79			
	1078	4		Kadett	75.00	1.75	3.45	AS10106	4 Cyl.	STD
	1300			Ascona		2.00	3.48	AS10106010	0.50	
						4.00	3.94			
								AS10107	STD	
								AS10107010	0.50	
								AS10107020	0.75	
								AS10107030	1.00	
								AS10107040	1.50	
	1300	4	1979-On	Ascona CD, GL, GLS, J, L, LS, N, SR; Berlina, S; Corsa, GT, TR; Berlinetta, Kadett, Manta, CC Special Caravan, Sprint C, Voyage w/3.00mm oil ring	75.00	1.50	2.95	AS10108	4 Cyl.	STD
						1.50	3.23	AS10108010	0.25	
						3.00	3.18	AS10108020	0.50	
								AS10108030	0.75	
								AS10108040	1.00	
								AS10109	STD	
								AS10109010	0.25	
								AS10109020	0.50	
								AS10109030	0.75	
								AS10109040	1.00	
	1300	4	1979-On	Ascona CD, GL, GLS, J, L, LS, N, SR; Berlina, S; Corsa, GT, TR; Berlinetta, Kadett, Manta, CC Special Caravan, Sprint C, Voyage	75.00	1.50	2.95	AS10110	4 Cyl.	STD
						1.50	3.23	AS10110010	0.50	
						4.00	3.94	AS10110020	0.75	
								AS10110030	1.00	
								AS10110040	1.50	
								AS10111	4 Cyl.	STD
								AS10111010	0.50	
								AS10111020	0.75	
								AS10111030	1.00	
								AS10111040	1.50	
1.4 NV, 1.4 NVH, C 1.4 NZ, C 1.4 SE, C 1.4 SEL, X 1.4 XE, X 1.4 NZ, X 1.4 SZ	1200	4	1989-91	Astra, Corsa, Kadett, Vectra	77.60	1.50	3.30	AS10112	4 Cyl.	STD
	1400		1988-On	Astra, Corsa, Kadett, Vectra		1.50	3.71			
						3.00	3.56			
								AS10112010	0.25	
								AS10112020	0.50	
								AS10112030	0.75	
								AS10112040	1.00	
								AS10113	STD	
								AS10113010	0.25	
								AS10113020	0.50	
								AS10113030	0.75	
								AS10113040	1.00	
Z 14 XE,	1389	4		Z14 XE Astra Corsa	77.60	1.20	3.33	AS10114	4 Cyl.	STD
						1.50	3.71	AS10114010	0.50	
						2.00	2.92	AS10114020	0.75	
1.2 NV, 1.2 N, 1.2 S, E 1.2 GV	1200	4	1973-On	Ascona Kadette C	79.00	2.00	3.40	AS10115	4 Cyl.	STD
						2.00	3.43	AS10115010	0.50	
						5.00	1.27	AS10115020	1.00	
								AS10116	STD	
								AS10116010	0.50	
								AS10116020	1.00	

										
OPEL										
	1598	4	1997-On	16V Astra, Vectra w/2.0mm oil grv.	79.00	1.20	3.33	AS10117	4 Cyl.	STD
						1.50	3.43	AS10117010		0.50
						2.00	2.92			
XE, XEL, XE-4V	1598	4	1997-On	XE, XEL, XE-4V, Astra, Corsa, Vectra, Tigra w/2.5mm oil grv.	79.00	1.20	3.33	AS10118	4 Cyl.	STD
						1.50	3.43	AS10118010		0.50
						2.50	2.92	AS10118020		1.00
Z1.6XEP	1598	4		Z1.6XEP Meriva	79.00	1.20	2.92	AS10119	4 Cyl.	STD
						1.20	3.48	AS10119010		0.50
						2.00	2.92			
	1600	4		Diesel 7/84-on Kadett E; 4/82-on Ascona C, Kadett D	80.00	2.00	3.18	AS10120	4 Cyl.	STD
						2.00	3.71	AS10120010		0.50
						3.00	3.43			
								AS10121		STD
								AS10121010		0.50
	2500	6	1937-53	Blitzwagen, Kapitan, Super Six	80.00	3.00	3.18	AS10122	6 Cyl.	STD
						3.00	3.20			
						4.75	3.81			
F8Q	1870		1998-01	Diesel F8Q 600, 606, 676, 714, 730, 732	80.00	2.00	3.51	AS10123	1 Cyl.	STD
						2.00	3.53			
						3.00	3.68			
	1796	4		X18XE1, Astra, Vectra	80.50	1.20	3.12	AS10124	4 Cyl.	STD
						1.20	3.15	AS10124010		0.25
						2.00	2.92	AS10124020		0.25
								AS10124030		0.50
								AS10124040		0.75
								AS10124050		1.00
	1799	4	1997-On	Astra 180ie Ecotec	81.60	1.50	3.58	AS10125	4 Cyl.	STD
						1.50	3.25	AS10125010		0.50
						3.00	3.43	AS10125020		1.00
								AS10126		STD
								AS10126010		0.50
	1800			Calibra, Vectra	81.60	1.50	3.23	AS10127	2 Cyl.	STD
	2400			Calibra, Vectra		1.50	3.25			
						3.00	2.67			
Z 19 DTH, Z 19 DTJ		4	2004-10	1.9L Turbo Diesel CDTI Astra, Signum, Vectra, Zaira	82.00	2.00	3.53	AS10128	1 Cyl.	STD
						2.00	3.68			
						2.00	2.87			
	1700	4		Astra, Kadett, Vectra	82.49	2.00	3.25	AS10129	4 Cyl.	STD
						2.00	3.28	AS10129010		0.50
						3.00	3.18			
	1500	4	1965-71	1500 Rekord B, C, L	82.50	2.00	3.25	AS10130	4 Cyl.	STD
						2.00	3.78			
						5.00	1.27			
								AS10131		STD
								AS10131010		1.50

										
OPEL										
	1995		1997-05	Diesel Turbo SOHC X 20 DTH, 84.00	1.75	3.66		AS10132	1 Cyl.	STD
	2172		1997-08	Diesel Turbo SOHC X22DTH, Y22DTH, Y22DTR	1.75	3.68				
					3.00	3.68				
	1896		1998-05	Diesel SOHC X20DTL, Y20DTL	84.00	2.00	3.66	AS10133	1 Cyl.	STD
					1.75	3.68				
					3.00	3.68				
	1995		2006-On	Turbo Diesel M9R	84.00	2.50	3.51	AS10134	1 Cyl.	STD
					2.00	3.43		AS10134010		0.50
					2.00	2.87				
X 2.0 DTH	1995		1997-05	Turbo Diesel SOHC X20DTH w/Keystone top grv.	84.00	2.50	3.66	AS10135	1 Cyl.	STD
					1.75	3.68				
					3.00	3.68				
	1817	4	1976-80	Isuzu	84.07	2.00	3.99	AS10136	4 Cyl.	STD
					2.00	4.01		AS10136010		0.25
					4.00	4.24		AS10136020		0.50
								AS10136030		0.75
								AS10136040		1.00
								AS10136050		1.50
								AS10137		STD
								AS10137010		0.25
								AS10137020		0.50
								AS10137030		0.75
								AS10137040		1.00
								AS10137050		1.50
16 N, 16 S,	1600	4	1970	Ascona Manta	85.00	2.00	3.81	AS10138	4 Cyl.	STD
					2.00	4.04		AS10138010		0.50
					5.00	4.11		AS10138020		0.75
								AS10138030		1.50
								AS10139		STD
								AS10139010		0.50
								AS10139020		0.75
								AS10139030		1.00
	1600	4	1959-65	Car-A-Van 17, Olympia, Rekord P17	85.00	2.50	4.01	AS10140	4 Cyl.	STD
					2.50	4.04		AS10140010		0.75
					5.00	4.11		AS10140020		1.00
								AS10140030		1.50
								AS10141		STD
								AS10141010		0.75
								AS10141020		1.00
								AS10141030		1.50
	2600	6	1959-64	Blitz, Kapitan P, PL	85.00	2.50	4.01	AS10142	6 Cyl.	STD
					2.50	4.04		AS10142010		0.75
					5.00	4.11		AS10142020		1.00
								AS10142030		1.50
								AS10143		STD
								AS10143010		0.75
								AS10143020		1.00
								AS10143030		1.50
	2962	6		VL Commodore, Nissan Australia, RD30E Turbo	86.00	1.50	3.86	AS10144	6 Cyl.	STD
					1.50	3.78		AS10144010		0.25
					4.00	3.43		AS10144020		0.50
								AS10144030		0.75
								AS10144040		1.00
	2000	4	1975-81	Diesel Rekord 2000	86.50	2.00	3.89	AS10145	4 Cyl.	STD
					2.00	3.91				
					4.00	4.11				

										
OPEL										
25 H, 25 S, 25 CIH	2490	6	1972-On	Commodore B	87.00	2.00	3.61	AS10146	6 Cyl.	STD
						2.00	3.94	AS10146010		0.75
						5.00	4.11	AS10146020		1.00
								AS10147		STD
								AS10147010		0.50
								AS10147020		1.00
G9T.720	2188		2000-On	Turbo Diesel G9T 720, 722, 750	87.00	3.00	3.81	AS10148	1 Cyl.	STD
						1.75	3.84			
						2.50	3.33			
		4	1972-On	Rekord 2100D Diesel	88.00	2.00	3.61	AS10149	4 Cyl.	STD
						2.00	3.63			
						2.00	3.63			
						5.00	4.24			
1.7 S/L, 1.7 S/L	1698	4	1965-On	Car-A-Van, Coupe,L, Rekord, 75 Din-PS	88.00	2.00	3.61	AS10150	4 Cyl.	STD
						2.00	3.63			
						5.00	1.27			
								AS10151		STD
	2600	6		Omega Senator	88.80	1.50	3.63	AS10152	6 Cyl.	STD
						1.50	3.96			
						3.00	3.43			
G9U 630, 632, 720	2464		2003-06	Turbo Diesel CDTI G9U 630,632, 650	89.00	3.00	3.86	AS10153	1 Cyl.	STD
						1.75	3.89			
						2.50	3.33			
	2784	6	1965-On	Admiral, Diplomat 2600E	92.00	2.00	4.32	AS10154	6 Cyl.	STD
	2784		1965-On			2.00	4.09	AS10154010		0.50
						5.00	4.62			
								AS10155		STD
								AS10155010		0.50
								AS10155020		1.00
25TDS (VM41B)	2500		1996-98	2.5L TDS Turbo Diesel Frontera	92.00	2.50	4.01	AS10156	1 Cyl.	STD
						2.00	4.04			
						4.00	4.24			
	2499		1989-97	Diesel 4JA1 Chrome Sleeves use 7384 only	93.00	2.00	4.06	AS10157	1 Cyl.	STD
						2.00	4.09			
						4.00	4.19			
								AS10158		STD
	2799		1998-01	Turbo Diesel S9W 700, 702	94.40	3.00	4.06	AS10159	1 Cyl.	STD
						2.00	4.09			
						3.00	3.78			
	2799		1998-01	Turbo Diesel S9W 700, 702	94.40	2.50	4.06	AS10160	1 Cyl.	STD
						2.00	4.09			
						2.50	3.33			

										
OPEL										
	4			Rekord OHC	95.00	2.00	4.17	AS10161	4 Cyl.	STD
						2.00	4.50	AS10161010		1.00
						4.00	4.11			
								AS10162		STD
								AS10162010		1.00
2197	4			1984-OnMonza, Rekord, Senator CD, GL, GLS	95.00	1.75	4.17	AS10163	4 Cyl.	STD
						1.50	3.73	AS10163010		0.50
						3.50	3.56			
								AS10164		STD
								AS10164010		0.50
PACKARD										
	6			1937-37 115C	87.31	3.18	4.11	AS10201	6 Cyl.	STD
						3.18	3.94			
						4.75	1.27			
	8			1940-53 All Nos. w/o Suffix "C"	88.90	2.38	4.19	AS10202	8 Cyl.	STD
						3.18	4.22			
						4.75	1.27			
	8			1948-54 All Nos. with Suffix "C"	88.90	2.38	4.19	AS10203	8 Cyl.	STD
						2.38	4.22			
						4.75	1.27			
289 cu. in.	8			1957-58 All Models 57L, 58, 58L	90.49	2.00	4.01	AS10204	8 Cyl.	STD
359 cu. in.				1954 Packard, 5406, 5426, 5431 212 H.P.		2.00	4.29	AS10204010		1.50
						4.75	4.62			
352 cu. in.	8			1955-56 5560, 5580, 5640, 5650, Clipper, Custom, Deluxe, Patrician, Super, 400	101.60	2.00	4.78	AS10205	8 Cyl.	STD
						2.00	4.80	AS10205010		0.25
						4.75	4.88	AS10205020		0.50
								AS10205030		0.75
								AS10205040		1.00
								AS10205050		1.50
								AS10205060		1.75
								AS10205070		2.00
								AS10205080		2.50
								AS10206		STD
								AS10206010		0.25
								AS10206020		0.50
								AS10206030		0.75
								AS10206040		1.00
								AS10206050		1.50
								AS10206060		1.75
								AS10206070		2.00
								AS10207		STD
								AS10207010		0.13
								AS10207020		0.25
								AS10207030		0.50
								AS10207040		0.75
								AS10207050		1.00
								AS10207060		1.50
								AS10207070		1.75
								AS10207080		2.00
								AS10207090		2.50

										
PACKARD										
374 cu. in.	8	1956	5680, 5688, Patrician, 400 Carribean	104.78	2.00	4.93		AS10208	8 Cyl.	STD
					2.00	4.95		AS10208010		0.25
					4.75	5.00		AS10208020		0.50
								AS10208030		0.75
								AS10208040		1.00
								AS10208050		1.50
								AS10209		STD
								AS10209010		1.00
								AS10210		STD
								AS10210010		0.25
								AS10210020		0.50
								AS10210030		0.75
								AS10210040		1.00
								AS10210050		1.50
PALMER										
345 cu. in.	8		304, Engs.	98.43	2.38	4.62		AS10301	8 Cyl.	STD
					2.38	3.99		AS10301010		0.25
					4.75	4.88		AS10301020		0.50
								AS10301030		0.75
								AS10301040		1.00
								AS10301050		1.50
								AS10302		STD
								AS10302010		0.50
								AS10302020		0.75
								AS10302030		1.00
								AS10302040		1.50
								AS10303		STD
								AS10303010		0.75
								AS10303020		1.00
								AS10303030		1.50
302 cu. in.	8			101.60	2.00	4.78		AS10304	8 Cyl.	STD
351 cu. in.		1968-85			2.00	4.80		AS10304010		0.25
					4.75	4.88		AS10304020		0.50
								AS10304030		0.75
								AS10304040		1.00
								AS10304050		1.50
								AS10304060		1.75
								AS10304070		2.00
								AS10304080		2.50
								AS10305		STD
								AS10305010		0.25
								AS10305020		0.50
								AS10305030		0.75
								AS10305040		1.00
								AS10305050		1.50
								AS10305060		1.75
								AS10305070		2.00
								AS10306		STD
								AS10306010		0.13
								AS10306020		0.25
								AS10306030		0.50
								AS10306040		0.75
								AS10306050		1.00
								AS10306060		1.50
								AS10306070		1.75
								AS10306080		2.00
								AS10306090		2.50

										
PALMER										
302 cu. in.		8	1986-91		101.60	1.50	3.96		AS10307	8 Cyl. STD
						1.50	4.37		AS10307010	0.50
						4.00	3.48		AS10307020	0.75
									AS10307030	1.00
									AS10307040	1.50
									AS10308	STD
									AS10308010	0.25
									AS10308020	0.50
									AS10308030	0.75
									AS10308040	1.00
									AS10308050	1.50
392 cu. in.		8			104.78	2.38	4.93		AS10309	8 Cyl. STD
404 cu. in.						2.38	4.95		AS10309010	0.50
						4.75	5.00		AS10309020	0.75
									AS10309030	1.00
									AS10309040	1.50
									AS10310	STD
									AS10310010	0.75
									AS10310020	1.00
									AS10310030	1.50
401 cu. in.		8			105.79	2.00	4.95		AS10311	8 Cyl. STD
						2.00	4.98		AS10311010	0.75
						4.75	5.21		AS10311020	1.00
									AS10312	STD
									AS10313	STD
									AS10313010	0.75
549 cu. in.		8			114.30	2.38	5.36		AS10314	8 Cyl. STD
						2.38	4.85			
						4.75	5.08			
									AS10315	STD
									AS10315010	0.50
									AS10315020	0.75
									AS10315030	1.00
									AS10315040	1.50
PERKINS										
				Phaser compressor	80.00	2.00	3.18		AS10401	1 Cyl. STD
						2.00	3.71		AS10401010	0.50
						4.00	3.30		AS10401020	0.75
	2200	4		4- Diesel	88.90	2.38	3.63		AS10402	4 Cyl. STD
						2.38	3.66		AS10402010	0.25
						4.75	4.24		AS10402020	0.50
									AS10402030	0.75
									AS10402040	1.00
									AS10402050	1.50
		4		4-154	88.90	2.38	3.63		AS10403	4 Cyl. STD
						2.38	3.99			
						2.38	3.99			
						4.75	4.24			
						4.75	3.99			
				3A.152D S/N 1935854-on For Late Piston Chrome Sleeves use 7140 only	91.44	2.38	3.84		AS10404	1 Cyl. STD
				4A.203D S/N 2939036-on For Late Piston Chrome Sleeves use 7140 only		2.38	3.86			
				6.305D For Late Piston Chrome Sleeves use 7140 only		3.18	3.86			
						6.35	3.86			
						6.35	3.86			

										
PERKINS										
	6			6.354 Chrome Sleeves use 7137 only	98.43	2.38	3.96	AS10405	6 Cyl.	STD
						2.38	3.99			
						2.38	3.99			
						6.35	2.21			
						6.35	3.48			
	4			G4-236, AG4-212 Gas Engs.	98.48	2.38	3.96	AS10406	4 Cyl.	STD
						2.38	3.99			
						2.38	3.99			
						6.00	4.24			
	6				98.48	3.18	3.96	AS10407	6 Cyl.	STD
						2.38	3.99			
						2.38	3.99			
						6.35	4.60			
						6.35	3.48			
				1004.4 4.0L Naturally Aspirated	100.00	2.50	4.34	AS10408	1 Cyl.	STD
				1006.6 6.0L Naturally Aspirated		2.50	4.37			
						4.00	5.31			
PEUGEOT										
	954	4		1972-On954cc XV3, 46PS, 8, 8:1 104/204	70.00	2.00	3.25	AS10501	4 Cyl.	STD
				1983-On205		2.00	3.28	AS10501010		1.00
						4.00	4.11			
								AS10502		STD
								AS10502010		0.50
	4			205 Junior, 106XN, 20J, GL, XE, XL, XR	70.00	1.50	3.25	AS10503	4 Cyl.	STD
						1.50	2.95	AS10503010		0.41
						3.00	3.30	AS10503020		0.61
								AS10503030		1.00
								AS10503040		1.50
								AS10504		STD
								AS10504010		0.41
								AS10504020		0.61
								AS10504030		0.81
	1124	4		1983-On104 Coupe ZS XW3/XW35, XW7	72.00	1.50	2.82	AS10505	4 Cyl.	STD
						2.00	3.40	AS10505010		0.25
						4.00	3.81	AS10505020		0.50
								AS10506		STD
	1124			1983-On				AS10506010		0.25
								AS10506020		0.50
	1124	4		106XN, XR, XT 205GL, GR, XL, XR 306XN	72.00	1.50	2.82	AS10507	4 Cyl.	STD
						2.00	3.10	AS10507010		0.50
						3.00	3.30			
	1398			2001-09 DT4TD, DV4TED4 Turbo Diesel	73.70	2.50	3.25	AS10508	1 Cyl.	STD
						1.95	3.28	AS10508010		0.25
						2.50	3.33	AS10508020		0.50

										
PEUGEOT										
	1361	4	1993-On	TU3 JP 106, 206, 306, 307 Partner	75.00	1.50	2.95	AS10509	4 Cyl.	STD
						1.50	3.23			
						2.50	2.79			
								AS10510		STD
								AS10510010		0.25
								AS10510020		0.50
								AS10510030		0.75
								AS10510040		1.00
	1400	4		205 GTi, TU3	75.00	1.75	3.45	AS10511	4 Cyl.	STD
						2.00	3.48	AS10511010		0.50
						3.00	3.18			
								AS10512		STD
								AS10512010		0.25
								AS10512020		0.50
								AS10512030		0.75
								AS10512040		1.00
		4	1967-73	204 Diesel Moteur XLD	75.00	1.50	2.95	AS10513	4 Cyl.	STD
						1.50	3.23	AS10513010		0.50
						4.00	3.94	AS10513020		0.75
								AS10513030		1.00
								AS10513040		1.50
								AS10514	4 Cyl.	STD
								AS10514010		0.50
								AS10514020		0.75
								AS10514030		1.00
								AS10514040		1.50
								AS10515	1 Cyl.	STD
						1.95	3.33			
						2.50	3.33			
		4		TU3J, TU3F2 106, 205, 206, 405	75.00	1.75	3.45	AS10516	4 Cyl.	STD
						2.00	3.48	AS10516010		0.25
						3.00	3.18	AS10516020		0.50
								AS10516030		0.75
								AS10516040		0.50
	1288	4	1969-75	304, 304S, XL3S	76.00	1.75	3.45	AS10517	4 Cyl.	STD
						2.00	3.48	AS10517010		0.25
						4.00	3.94	AS10517020		0.50
								AS10517030		0.75
								AS10517040		1.00
								AS10518		STD
								AS10518010		0.25
								AS10518020		0.50
								AS10518030		1.00
		4	1995-On	TUD5 Diesel	77.00	2.00	3.30	AS10519	4 Cyl.	STD
						1.75	3.33	AS10519010		0.25
						3.00	3.53	AS10519020		0.50
								AS10519030		1.00
		4	1977-84	204GL, 204XK5, 304L, 304XL5, 304XL5S, 305GL, 305SR, LS, SLS, GR7CV-XL5, 8CV-XR5	78.00	1.75	3.68	AS10520	4 Cyl.	STD
						2.00	3.71			
						4.00	4.50	AS10521		0.25
								AS10522		STD
								AS10522010		0.25
								AS10522020		0.50
		4	1973	204 Diesel, Moteur XL4D	78.00	1.75	3.68	AS10523	4 Cyl.	STD
			1976-80	304 Diesel		2.00	3.71			
						3.00	3.53			

										
PEUGEOT										
	1587	4		TU5JP, 206, 306, 405	78.50	1.50	3.38	AS10524	4 Cyl.	STD
						1.50	3.40	AS10524010		0.25
						3.00	3.30	AS10524020		0.50
	1587	4		TU5JP, 106, 206, 307 Berlingo, Partner, Xsara, C3, 110 Saxo	78.50	1.20	3.33	AS10525	4 Cyl.	STD
						1.50	3.40	AS10525010		0.50
						2.50	3.43	AS10525020		0.75
	1592	4	1983-86		80.60	1.75	3.58	AS10526	4 Cyl.	STD
						2.00	3.61	AS10526010		0.50
						4.00	4.11			
								AS10527		STD
								AS10527010		0.50
	1868	4	1993-On	Diesel, DW8, XUD SOHC Sural Berlingo, Dispatch, Jumpy, Xsara, Partner	82.20	2.00	3.89	AS10528	4 Cyl.	STD
						2.00	3.91			
						3.00	3.30			
								AS10529	1 Cyl.	STD
								AS10529010		0.50
	1581	4	1994-04	XU5JP, XU5JPZ	83.00	1.50	3.20	AS10530	4 Cyl.	STD
	1762		1992-04	XU7JB, XU7KP, XU7JPZ, XU7JP4		1.50	3.25	AS10530010		0.25
	1905		1987-93	XU9J4		3.00	3.30	AS10530020		0.50
								AS10530030		0.75
								AS10530040		1.00
								AS10530050		1.50
	1905	4	1983-96	Diesel XUD9 1.9 Litre 205, 305, 306, 309, 405, J5, J9, Boxer, Expert, Partner	83.00	2.00	3.53	AS10531	4 Cyl.	STD
						2.00	3.35	AS10532		0.50
						3.00	3.30			
								AS10533	4 Cyl.	STD
								AS10533010		0.50
	1905	4		205 GTi, XU5J, XU51C, XU5CP	83.00	1.75	3.89	AS10534	4 Cyl.	STD
				305 GT, GTX, XU5S		1.75	3.61			
	1905			405 XU51C, XU52C, XU92C		4.00	3.94			
								AS10535		STD
B6B, BDZ, BZF	1580	4	1984-96	XU5J, XU5JA, XU5JM 180, 180A	83.00	1.50	3.20	AS10536	4 Cyl.	STD
DZA, DCZ, DFZ, D6A, D6B, DKZ,			1985-97	XU9, XU9JA, XU9JAZ, XU9C, XU9S, XU9M, XU9J2, XU9J1, XU92C		1.50	3.25			
						4.00	3.43			
	1905		1988-04	Turbo Diesel XUD9A, XUD9SBD, XUD9SD, XUD9TE	83.00	3.50	3.61	AS10537	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			

										
PEUGEOT										
	1905		1988-04	Diesel XUD9A, XUD9BSD, XUD9SD, XUD9TE	83.00	3.00	3.61	AS10538	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
	1905		1982-98	Diesel XUD9	83.00	2.00	3.61	AS10539	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
	1618	4	1960-70	404, Berline Grand Tourism	84.00	2.00	3.43	AS10540	4 Cyl.	STD
						2.00	3.45	AS10540010		0.50
						4.50	4.24	AS10540020		0.75
								AS10541		STD
	1796	4	1969-71	504, MOT.XM, KF6	84.00	1.50	3.43	AS10542	4 Cyl.	STD
						2.00	3.45	AS10542010		0.25
						4.00	4.24	AS10542020		0.50
								AS10542030		0.75
								AS10542040		0.81
								AS10542050		1.00
								AS10542060		1.50
								AS10543		STD
								AS10543010		0.25
								AS10543020		0.50
								AS10543030		0.61
								AS10543040		0.75
								AS10543050		0.81
								AS10543060		1.00
								AS10543070		1.50
								AS10543080		1.60
EW 10 J4, EW 10L3, EW 10L4	1998	4			85.00	1.20	3.33	AS10544	4 Cyl.	STD
						1.50	3.43	AS10544010		1.25
						2.50	2.79			
	1997		2000-06	Turbo Diesel DW10 Break, Expert	85.00	3.50	3.71	AS10545	1 Cyl.	STD
	2179		2000-04	Turbo Diesel DW12 Boxer, Break, Coupe		2.00	3.73	AS10545010	1 Cyl.	0.60
						3.00	3.94			
	1998	4		405 SRi, STi, GTX, XU10 Motor Hunter	86.00	1.50	3.45	AS10546	4 Cyl.	STD
	1998			605 SLi, SRi, SVi		1.75	3.45	AS10546010		0.50
						3.00	3.30			
								AS10547		STD
								AS10547010		0.50
								AS10547020		0.75
								AS10547030		1.00
								AS10547040		1.50
	1971	4	1971-89	504, 505, J5, J9 XN1, XN1A, XN1P, XN1T, XN2	88.00	1.50	3.61	AS10548	4 Cyl.	STD
						2.00	3.96	AS10548010		0.50
						4.00	4.24			
								AS10549		STD
								AS10549010		0.25
								AS10549020		0.50
								AS10549030		1.00

										
PEUGEOT										
	2664	6	1974-81	Z112 504, 604	88.00	1.50	3.61	AS10550	6 Cyl.	STD
						2.00	3.63	AS10550010		0.75
						4.00	4.24			
								AS10551		STD
								AS10551010		0.75
		4		404LD	88.00	2.00	4.14	AS10552	4 Cyl.	STD
						2.00	3.96	AS10552010		0.50
						2.00	3.96			
						4.50	1.27			
								AS10553		STD
								AS10553010		0.50
								AS10553020		1.00
	2112	4	1969-77	XDP90, 54PS, 22, 2:1, 404, 504	90.00	2.00	3.99	AS10554	4 Cyl.	STD
						2.00	4.01			
						2.00	4.01			
						4.50	4.39			
								AS10555	4 Cyl.	STD
								AS10555010		0.50
	2500	4	1987-On	Diesel, J5	93.00	2.50	4.09	AS10556	4 Cyl.	STD
						2.00	4.11	AS10556010		0.50
						4.00	4.14	AS10556020		0.75
	2304	4	1978-81	Diesel 504, 505D w/o Turbo	94.00	2.00	4.11	AS10557	4 Cyl.	STD
						2.00	4.14	AS10557010		0.25
						4.00	4.50	AS10557020		0.41
								AS10557030		0.50
								AS10557040		1.00
								AS10558	1 Cyl.	STD
	2798		2000-04	Turbo Diesel 8140.23.3900	94.40	3.00	4.06			
						2.00	4.09			
						3.00	3.78			
	2798		1999-02	Diesel 8140.63(F28D)	94.40	3.00	4.06	AS10559	1 Cyl.	STD
						2.00	4.09			
						2.50	3.33			
	2798		2000-04	Turbo Diesel 8140.43N 8140.43S	94.40	2.50	4.06	AS10560	1 Cyl.	STD
						2.00	4.09			
						2.50	3.33			
PIONEER-I.E.L.										
				DA, DB, DC	50.80	2.38	2.39	AS10601	1 Cyl.	STD
				PB, PT		2.38	2.41			
PORSCHE										
	1300	4	1952-55	Sport 1300	80.00	3.00	3.18	AS10701	4 Cyl.	STD
	1500		1952-55	1500, 1500 Super		3.00	3.20			
						5.00	3.20			
	1582	4	1966-69	912	82.50	1.50	3.25	AS10702	4 Cyl.	STD
			1965	SC		2.00	3.28			
						4.00	3.94			

										
PORSCHE										
1984	4	1976-79	924 w/Mahle Piston	86.50	2.00	3.89		AS10703	4 Cyl.	STD
					2.50	3.91		AS10703010		0.50
					5.00	4.11		AS10703020		1.00
								AS10703030		1.50
								AS10704		STD
								AS10704010		0.25
								AS10704020		0.50
								AS10704030		1.00
								AS10704040		1.50
1679	4	1971-73	914.7	90.00	2.00	3.99		AS10705	4 Cyl.	STD
					2.00	4.01				
					5.00	4.24				
1795	4	1974-On	914	93.00	2.00	4.09		AS10706	4 Cyl.	STD
					2.00	4.11		AS10706010		0.50
					4.00	3.94				
								AS10707		STD
								AS10707010		0.50
								AS10707020		1.00
3300	6	1977-On	930 Turbo w/Nicasil Cylinders	97.00	1.50	4.19		AS10708	6 Cyl.	STD
					1.50	4.22				
					3.50	3.56				
POWER PRODUCTS										
			AH47, AV47, V47	50.80	2.38	2.39		AS10801	1 Cyl.	STD
			AH51, AH440, AH510, AV520, TECV1, V51 Go-Karts		2.38	2.41				
			AH48, AH52, AH58, AH480, AH520, TECV11 Late Piston	53.18	1.60	2.49		AS10802	1 Cyl.	STD
			AH61 Go-Karts		1.60	2.51				
			AH58, AV52, AV580, AV600, TECV11, V58 Late Piston Go-Karts							
RENAULT										
956	4		956cc 44PS, 9, 25, 25:1 R5TL	65.00	1.75	3.05		AS10901	4 Cyl.	STD
					2.00	3.07				
					3.50	3.43				
								AS10902		STD
1149	4	2000-On	D4D, D4F Twingo, 16V w/1.2mmtop grv.	69.00	1.20	2.92		AS10903	4 Cyl.	STD
					1.50	2.74		AS10903010		0.25
					2.50	2.79		AS10903020		0.50
1149	4	1998-On	D7F, Clio, Twingo	69.00	1.50	3.23		AS10904	4 Cyl.	STD
					1.50	2.74		AS10904010		0.25
					2.50	2.79		AS10904020		0.50
								AS10904030		1.00
1108	4	1962-On	R4, R5, R6L, R8, R9, R10, R11 Express	70.00	1.75	3.25		AS10905	4 Cyl.	STD
					2.00	3.28				
					3.50	3.81				
								AS10906		STD

										
RENAULT										
					70.00	2.00	3.25	AS10907	4 Cyl.	STD
						2.00	3.28	AS10907010		0.50
						3.50	3.81			
1289	4	1968-79	LeCar, R10, R12, R15, 1300 Series		73.00	1.75	3.40	AS10908	4 Cyl.	STD
		1970	Staffette			2.00	3.43			
		1969-71	Motor 810, R1192, 54PS, 8, 5:1, R10-1300, Staffette GTL 810 R5			4.00	4.11			
								AS10909		STD
								AS10909010		0.25
								AS10909020		0.75
1200	4		Twigo		74.00	1.50	3.20	AS10910	4 Cyl.	STD
						1.75	3.23	AS10910010		0.50
						3.00	3.18	AS10910020		1.00
								AS10911		STD
								AS10911010		0.25
								AS10911020		0.50
								AS10911030		0.50
								AS10911040		0.75
								AS10911050		1.00
1171	4	1990-OnClio, R/L/RN, 1.2L, E5F, E7F			75.80	1.50	3.25	AS10912	4 Cyl.	STD
			1989on Chamade R19, TS, GS, TES 1991on Clio, S, RT							
1390			1.4 L, E6J, E7J			1.75	3.28	AS10912010		0.25
						3.00	3.30			
								AS10913		STD
								AS10913010		0.25
								AS10913020		0.50
1470	4	1965-71	Motor 697, 58, 5, PS, 8, 6:1, R16		76.00	2.00	3.20	AS10914	4 Cyl.	STD
						2.00	3.23	AS10914010		0.25
						4.00	3.68	AS10914020		0.50
								AS10914030		0.75
								AS10914040		1.00
								AS10914050		1.50
								AS10915		STD
								AS10915010		0.25
								AS10915020		0.50
								AS10915030		0.75
								AS10915040		1.00
								AS10915050		1.50
1397	4	1983-87	Alliance, R16		76.00	1.75	3.45	AS10916	4 Cyl.	STD
1397		1980-83	LeCar, R16			2.00	3.48	AS10916010		0.25
1397			R16, 697 Motor			4.00	3.94	AS10916020		0.50
								AS10916030		0.75
								AS10916040		1.00
								AS10917		STD
								AS10917010		0.25
								AS10917020		0.50
								AS10917030		1.00
1461		2001-08	SOHC Turbo Diesel K9K		76.00	2.00	3.30	AS10918	1 Cyl.	STD
						2.00	3.33	AS10918010		0.50
						2.50	3.30			
1564	4	1968-76	R15, R16, 1152, 1153; R16TS, 1151, 807 or 821 Fuego		77.00	1.75	3.66	AS10919	4 Cyl.	STD
						2.00	3.38			
						4.00	3.94			
								AS10920		STD

										
RENAULT										
	1595	4	1983-OnR9D, R11D		78.00	2.00	3.35	AS10921	4 Cyl.	STD
						2.00	3.38			
						3.00	3.56			
	1647	4	841, R12, R15TL, 18i Fuego Turbo		79.00	1.75	3.15	AS10922	4 Cyl.	STD
						2.00	3.78	AS10922010		0.50
						4.00	3.81	AS10922020		0.75
	1399	4	K7J Kangoo		79.50	1.50	3.15	AS10923	4 Cyl.	STD
		1995-97	K7M, K7M-702, K7M-703 Clio, Megane, Scenic			1.50	3.43	AS10923010		0.25
						2.50	2.92	AS10923020		0.50
	1870	4	Clio, Eclair, 706, F8Q, F8QA R19 Diesel		80.00	2.00	3.18	AS10924	4 Cyl.	STD
						2.00	3.71	AS10924010		0.50
						3.00	3.43			
								AS10925	4 Cyl.	STD
								AS10925010		0.50
	1870		1986-05 SOHC Diesel F8Q Clio, Kangoo, Megane w/2pc oil		80.00	2.00	3.51	AS10926	1 Cyl.	STD
						2.00	3.53			
						3.00	3.68			
	1870		1997-03 SOHC Diesel VTCi F9Q 650, 710, 717, 718, 750 756, 758, 759, 800		80.00	2.50	3.51	AS10927	1 Cyl.	STD
						2.00	3.53	AS10927010		0.75
						3.00	3.68			
	1721	4	1985-89 F3N		81.00	1.75	3.58	AS10928	4 Cyl.	STD
						2.00	3.61	AS10928010		0.50
						3.00	3.18	AS10928020		0.75
								AS10928030		1.00
								AS10928040		1.50
								AS10929		STD
								AS10929010		0.25
								AS10929020		0.50
								AS10929030		0.75
								AS10929040		1.00
	1965	4	1992-95 F2R, F3R		82.00	1.75	3.86	AS10930	4 Cyl.	STD
						2.00	3.89	AS10930010		0.50
						3.00	3.18	AS10930020		0.75
								AS10930030		1.00
								AS10931		STD
								AS10931010		0.50
								AS10931020		0.75
								AS10931030		1.00
	1965	4	1987-89 F3R, GTA		82.00	1.75	3.73	AS10932	4 Cyl.	STD
						2.00	3.89			
						4.00	4.24			
	2000	4	2004-OnF4R Megan LA1L		82.70	1.20	3.33	AS10933	4 Cyl.	STD
						1.50	3.61	AS10933010		0.50
						2.00	3.30	AS10933020		0.75
								AS10933030		1.00
	1794	4	Clio, Laguna, FLH, RT, R19		82.70	1.50	3.58	AS10934	4 Cyl.	STD
						1.75	3.91	AS10934010		0.50
						3.00	3.18			
								AS10935		STD
								AS10935010		0.25
								AS10935020		0.50
								AS10935030		0.75
								AS10935040		1.00

										
RENAULT										
	1995		2005-On	Turbo Diesel M9R	84.00	2.50	3.51	AS10936	1 Cyl.	STD
						2.00	3.43	AS10936010		0.50
						2.00	2.87			
	4		1990-On	J8S Turbo Diesel, R18, R20, R21, R25, R30	86.00	2.25	3.84	AS10937	4 Cyl.	STD
						2.50	4.06			
						3.00	3.68			
	2188		1993-01	Diesel DOHC G8T	87.00	2.50	3.81	AS10938	1 Cyl.	STD
						1.75	3.84			
						2.50	3.33			
	2188		2000-On	Turbo Diesel DOHC GT9 w/ Keystone top grv.	87.00	3.00	3.81	AS10939	1 Cyl.	STD
						1.75	3.84			
						2.50	3.33			
	4		1985-On	R18, R20, Fuego	88.00	1.75	4.14	AS10940	4 Cyl.	STD
			1988-89	R18, R20, Medallion		2.00	3.96			
						4.00	4.24			
			1985-On					AS10941		STD
			1988-89					AS10941010		0.25
XN 1 T	2664	6	1975-On	R25, 30TS, R30TX	88.00	1.50	3.61	AS10942	6 Cyl.	STD
						2.00	3.63	AS10942010		0.75
						4.00	4.24			
	2463		2000-On	DOHC Diesel G9U 630, 632, 650	89.00	3.00	3.86	AS10943	1 Cyl.	STD
						1.75	3.89			
						2.50	3.33			
	2463		2000-06	DOHC Turbo Diesel G9U	89.00	2.50	3.86	AS10944	1 Cyl.	STD
						1.75	3.89			
						2.50	3.33			
	4			FB30 Diesel T28, T30, T35, P1000D, P8 Model 8140-B70, FB30	93.00	3.00	4.09	AS10945	4 Cyl.	STD
						2.00	4.11			
						4.00	4.19			
	2799		1998-01	Turbo Diesel 8140.23, 8140.43	94.40	3.00	4.06	AS10946	1 Cyl.	STD
						2.00	4.09			
						3.00	3.78			
	2798			Turbo Diesel 8140.63 Euro	94.40	3.00	4.06	AS10947	1 Cyl.	STD
						2.00	4.09			
						2.50	3.33			
	2799		1998-01	Turbo Diesel S9W 700 S9W 702	94.40	2.50	4.06	AS10948	1 Cyl.	STD
						2.00	4.09			
						2.50	3.33			
	1700		1967-81	Diesel D225, D325 R6	95.00	3.00	4.11	AS10949	1 Cyl.	STD
						3.00	4.14			
						3.00	4.14			
						5.00	4.70			

										
REO										
				211E, 211F, 211G, 211H, 338E, 338F, 338G, 404E, 404F, 404G, 552, 556, 660G, 660H, 2230H, 2340H, 2840H, 2980H, 3200H, 4000J, LM551, WLJ18	50.80	2.38	2.39	AS11001	1 Cyl.	STD
						2.38	2.41			
						4.75	1.57			
	6	1943-51		19A, 19B, 19C, 19T, 20CHS, 21B, 21C, 21T, 21X, 419, 421, Reo Gold Crown, 245, GC245 or 288, GC288 Engs.	88.90	3.18	3.96	AS11002	6 Cyl.	STD
						3.18	3.66			
						3.18	3.66			
						4.75	4.24			
RILEY										
	4	1957-64		One Point-Five, Mark III; 4 Sixty-Eight 1/2 Litre, Four Seventy Two	73.03	1.60	3.10	AS11101	4 Cyl.	STD
						1.60	3.12	AS11101010		0.50
						1.60	3.12	AS11101020		0.75
						4.00	3.30	AS11101030		1.00
								AS11101040		1.50
ROVER										
	1275	4	1991-2000	A SERIES 12 A2B 12 A2A, 12 A2L, A+ SERIES 12 A2D, 12 A2E, 12 H	70.62	1.50	2.95	AS11201	4 Cyl.	STD
				MINI, MINI 1300, MAESTRO, MINI COOPER		1.50	2.97	AS11201010		0.50
						3.00	3.30	AS11201020		1.00
								AS11201030		1.50
	1120	4	1990-On	Metro, L, S	75.00	1.20	2.92	AS11202	4 Cyl.	STD
	1396		1990-On	Metro, GS, GTA, GTi, DOHC 214 GLi, Si, SL, SLi, DOHC 414 GLi, SL, SLi, DOHC		1.50	3.23	AS11202010		0.50
						3.00	3.18	AS11202020		0.75
								AS11202030		1.00
	1800		1995-On	1.8L 216i	80.00	1.00	2.92	AS11203	2 Cyl.	STD
	2497		1995-On	2.5L 220i		1.20	3.20			
						2.00	2.67			
	1905		1991-95	Diesel XUD9A (47kW)	83.00	2.00	3.61	AS11204	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
	1951		1999-07	Diesel Turbo BMW M47 R	84.00	3.00	3.66	AS11205	1 Cyl.	STD
	2926		1999-07	Diesel Turbo BMW M57		2.00	3.43	AS11205010		0.25
						3.00	2.84			
		4	1958-59	Land Rover Diesel	85.73	2.38	3.43	AS11206	4 Cyl.	STD
						2.38	3.45			
						2.38	3.45			
						4.75	1.27			
						4.75	4.06			
	1978	4	1964-71	2000	85.73	1.75	4.04	AS11207	4 Cyl.	STD
						1.75	4.06			
						4.75	1.27			
								AS11208		STD
	4394	8	2006-09	Vin:5 Jaguar Engine	88.00	1.20	3.33	AS11209	8 Cyl.	STD
						1.50	3.63			
						2.00	2.79			

										
ROVER										
	3528	8	1977-89	SD1 Range Rover	88.90	1.60	4.19	AS11210	8 Cyl.	STD
						1.60	4.22	AS11210010		0.50
						4.75	1.27	AS11210020		0.75
								AS11211		STD
								AS11211010		0.50
								AS11211020		0.75
	3500	8	1969-73	Model 3500SS	88.90	2.00	4.19	AS11212	8 Cyl.	STD
						2.00	4.22	AS11212010		0.75
						4.75	1.27	AS11212020		1.00
								AS11212030		1.50
								AS11213		STD
								AS11213010		0.25
								AS11213020		0.50
								AS11213030		0.75
								AS11213040		1.00
								AS11214		STD
								AS11214010		0.75
								AS11214020		1.00
	2402		2007-On	Turbo Diesel 244DT (Duratorq)	89.90	2.00	3.91	AS11215	1 Cyl.	STD
						2.00	3.94	AS11215010		0.50
						2.00	2.87			
		4	1984-On	12J Diesel 90, 110	90.50	2.00	3.66	AS11216	4 Cyl.	STD
						2.00	3.68	AS11216010		0.50
						4.00	3.94	AS11216020		1.00
								AS11216030		1.50
	2286	4	1958-73	Land Rover Series II 88, 109, Rover 80	90.50	1.75	4.01	AS11217	4 Cyl.	STD
						1.75	4.04			
						4.75	1.27			
								AS11218		STD
								AS11218010		0.25
								AS11218020		0.50
								AS11218030		0.75
								AS11218040		1.00
	2250	4	1962-64	Diesel	90.49	2.38	3.66	AS11219	4 Cyl.	STD
						2.38	3.68	AS11219010		1.00
						2.38	3.68			
						4.75	4.62			
						4.75	4.04			
								AS11220		STD
								AS11220010		0.50
								AS11220020		0.75
								AS11220030		1.00
	2250	4	1958-62	Land rover Series II 88, 109, rover 80	90.50	1.75	4.01	AS11221	4 Cyl.	STD
						1.75	4.04	AS11221010		0.50
						4.75	4.62	AS11221020		0.75
						4.75	4.04	AS11221030		1.00
	4398	8	2003-05	BMW M62 Alusil bore use 2C5296	92.00	1.50	3.45	AS11222	8 Cyl.	STD
						1.50	4.09			
						2.00	2.92			
								AS11223		STD
								AS11223010		0.50

										
ROVER										
HR 492 HT	2392	4	1990-99	2.4L Diesel	92.00	2.50	4.01	AS11224	1 Cyl.	STD
492 4 SHIRG	2500	4	1982-86	2.5L 800, 825 D/SD		2.00	4.04			
						4.00	4.24			
	3950	8	1989-95	Land Rover EFI, Vogue	94.00	1.50	4.11	AS11225	8 Cyl.	STD
	4250		1993-95	Land Rover EFI, Vogue		1.50	3.84	AS11225010		0.50
						3.00	3.86	AS11225020		0.75
								AS11225030		1.00
								AS11226		STD
								AS11226010		0.50
								AS11226020		0.75
								AS11226030		1.00
								AS11226040		1.50
	4000	8	1996-On	Land Rover V-8 50-D	94.00	1.20	3.53	AS11227	8 Cyl.	STD
	4600			Land Rover V-8 46D		1.50	3.84	AS11227010		0.50
						3.00	3.86			
SAAB										
Z 19 DTH, Z 19 DTJ	1910		2004-10	1.9L Turbo Diesel TiD 9-3	82.00	2.00	3.53	AS11301	1 Cyl.	STD
						2.00	3.68			
						2.00	2.87			
	1998	4	2004-13	B207	86.00	1.20	3.33	AS11302	4 Cyl.	STD
						1.50	3.43	AS11302010		0.50
						2.50	3.05	AS11302020		0.75
								AS11302030		1.00
								AS11303		STD
		4		Model 99 3 Ring Hepolite Piston	87.00	2.00	3.61	AS11304	4 Cyl.	STD
						2.50	3.94			
						4.00	4.11			
								AS11305		STD
	1854	4	1970-73	Model 99 3 Ring Piston	87.00	1.75	4.11	AS11306	4 Cyl.	STD
						2.00	3.94	AS11306010		1.00
						4.00	4.11			
	1998	4	2000-03	Model 9-3 B205 SE L4	90.00	1.50	3.63	AS11307	4 Cyl.	STD
	2290		2000-05	Model 9-5 B235 SAA Aero, Linear, Viggen		1.50	4.01			
						2.50	3.05			
121 cu. in.	1985	4	1972-85	, 99L, 900, 900EMS Turbo	90.00	1.75	3.99	AS11308	4 Cyl.	STD
						2.00	4.01			
						4.00	4.39			
								AS11309		STD
								AS11309010		0.50
	2100	4	1991-On	B212, 900, S	93.00	1.75	4.09	AS11310	4 Cyl.	STD
						2.00	4.11			
						3.00	2.79			

										
CC	CYL/ENG							PART#	CYL/SET	MM
SCRIPPS										
30, 40, 60	4				82.55	3.18	3.89	AS11401	4 Cyl.	STD
						3.18	3.78	AS11401010		0.50
						4.75	1.27	AS11401020		1.50
								AS11402		STD
	4		F4HS, F4MD Series		95.25	3.18	4.17	AS11403	4 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	1.27			
	6		6-145, 6-158, 6-339		101.60	2.50	4.78	AS11404	6 Cyl.	STD
						3.18	4.11			
						4.75	4.88			
						4.75	4.37			
								AS11405		STD
								AS11405010		1.00
SEA BEE										
			1948-54 12 H.P.		60.33	2.38	2.59	AS11501	1 Cyl.	STD
			1952 12 H.P., 45-070			2.38	2.62			
			1960-63 12 H.P.			2.38	2.62			
			1948-55 15 H.P.							
SEAT										
	1193	4	1984-OnIbiza, Malage, Ronda		75.00	1.50	2.95	AS11601	4 Cyl.	STD
						1.75	3.23	AS11601010		0.25
						4.00	3.94	AS11601020		0.50
								AS11601030		0.75
								AS11601040		1.00
								AS11602		STD
								AS11602010		0.50
CAVA, CAVE, CAVF, CNWB, CTHA, CTHE	1390	4	2009-12 ALHAMBRA, IBIZA,		76.50	1.20	3.33	AS11603	4 Cyl.	STD
						1.50	3.48	AS11603010		0.50
						2.00	2.92			
CAXA, CAXC	1390	4	2008-13 TFSI TURBO		76.50	1.20	3.33	AS11604	4 Cyl.	STD
BCA, BKY, BXW, CGGB			1999-10 16V			1.20	3.48	AS11604010		0.50
						2.00				
							2.92	AS11605		STD
								AS11605010		0.25
								AS11605020		0.50
1Y, AAZ, AEF	1896		1991-03 DIESEL ENGINE, CORODOBA, IBIZA, INCA, PONY, TOLEDO		79.50	1.75	3.38	AS11606	1 Cyl.	STD
						2.00	3.53	AS11606010		0.25
						3.00	3.68	AS11606020		0.50
								AS11606030		1.00
			1991-03 1896CC Diesel 1Y, AAZ, AEF Cordoba, Ibiza, Toledo		79.50	1.75	3.38	AS11607	1 Cyl.	STD
						2.00	3.53	AS11607010		0.25
						3.00	3.68	AS11607020		0.50
								AS11607030		1.00
1968			2012-onDIESEL TDI CKFB, CKFC, CRVA, CRVC, CUNA, CUPA, OCTAVIA LEON		81.00	1.75	3.56	AS11608	1 Cyl.	STD
						2.00	3.56			
						2.00	2.87			

										
SEAT										
CDAA, CDHA, CDHB CJSB	798	4	2005-15 TSI		82.50	4.75	3.12	AS11609	4 Cyl.	STD
CCZA, CCZB, CJXE, DED	984		2005-15 TSI			4.75	3.48			
						8.00	2.67			
1461	4		1985-Onl biza, Malage, Ronda 021-A-2000, Porsche		83.00	1.50	3.20	AS11610	4 Cyl.	STD
						1.75	3.61			
						4.00	3.43			
								AS11611		STD
								AS11611010		0.20
								AS11611020		0.41
SIMCA										
1294	4		1971-76 2R, Rallye 1-2, GLS1307, GT1308, Speciale Timatrasso, Bagheera Mot. 366 Mot. 954 T, GS Speciale, 7cv 1000		76.70	1.75	3.30	AS11701	4 Cyl.	STD
						2.00	3.33	AS11701010		0.25
						4.00	4.39	AS11701020		0.50
								AS11701030		0.75
								AS11701040		1.00
								AS11701050		1.50
								AS11702		STD
								AS11702010		0.25
								AS11702020		0.41
								AS11702030		0.50
								AS11702040		0.75
								AS11702050		1.00
SKODA										
1200	4		AUTO		71.90	1.20	2.92	AS11801	4 Cyl.	STD
						1.50	3.18			
						2.50	2.92			
	4		1967-81 S110-1100MB, S120		72.00	2.00	3.07	AS11802	4 Cyl.	STD
						2.00	3.40	AS11802010		0.75
						4.00	3.30			
1300	4		1986-on Favorit 1992-on 135/L136 Forman, pickup		75.50	1.50	2.95	AS11803	4 Cyl.	STD
						1.50	3.12	AS11803010		0.50
						3.00	3.94	AS11803020		0.75
								AS11803030		1.00
								AS11804		STD
								AS11804010		0.25
								AS11804020		0.50
								AS11804030		0.75
								AS11804040		1.00
								AS11804050		1.50
1397	4		2010-on CAVE, CTHE TURBO/ SUPER CHARGED FABIA		76.50	1.20	3.33	AS11805	4 Cyl.	STD
						1.50	3.48	AS11805010		0.50
						2.00	2.92			
CAXA, CAXC	1390	4	2008-13 Octavia, Rapid, Superb, Yeti 1.4L		76.50	1.20	3.33	AS11806	4 Cyl.	STD
BLF	1598		2004-08 Octavia			1.20	3.48	AS11806010		0.50
						2.00	2.92			
								AS11807		STD
								AS11807010		0.25
								AS11807020		0.50
2496			2001-08 Turbo Diesel AYM, BDG		78.30	1.75	3.40	AS11808	1 Cyl.	STD
						2.00	3.43			
						3.00	3.68			

										
SKODA										
AEF	1896		1995-02	DIESEL ENGINE FELICIA	79.50	1.75	3.38	AS11809	1 Cyl.	STD
						2.00	3.53	AS11809010		0.25
						3.00	3.68	AS11809020		0.50
								AS11809030		1.00
	1896		1995-01	Diesel AEF Felicia	79.50	1.75	3.38	AS11810	1 Cyl.	STD
						2.00	3.53	AS11810010		0.25
						3.00	3.68	AS11810020		0.50
								AS11810030		1.00
	1968		2012-on	DIESEL TDI , CKFB, CKFC, CUPA, OCTAVIA	81.00	1.75	3.56	AS11811	1 Cyl.	STD
						2.00	3.56			
						2.00	2.87			
	1968		2004-09	Turbo Diesel AZV, BKD, BMM, BMN, BMP, BSS	81.00	1.75	3.56	AS11812	1 Cyl.	STD
						2.00	3.56	AS11812010		0.50
						3.00	3.68			
CDA, CDAB, CJS, CJSB	798	4	2005-15	TSI	82.50	4.75	3.12	AS11813	4 Cyl.	STD
CJSC										
CCZA, CHHA, CHHB,	1984		2005-15	TSI		4.75	3.48			
						8.00	2.67			
SMART										
M 160 E6AL B03, M 160 E6AL B04, M 160 E6AL B05	599		1998-04	Cabrio, City-Coupe 0.6L	63.50	1.00	1.00	AS11901	4 Cyl.	STD
						1.00	1.50	AS11901010		0.25
						1.00	2.50	AS11901020		0.50
M 160.910, M 160.922, M 160.923, M160.921	698		2003-07	Cabrio, City-Coupe	66.50	1.20	1.20	AS11902	3 Cyl.	STD
						1.20	1.20	AS11902010		0.25
						2.50	2.50	AS11902020		0.50
SSANGYONG										
			1998	CC 16v DOHC D20DT Diesel	86.20	2.50	3.51	AS12001	1 Cyl.	STD
						2.00	3.53			
						3.00	3.33			
OM601.940	2299		1995-On	Diesel	89.00	2.50	3.86	AS12002	1 Cyl.	STD
OM662	2874		1996-On	Turbo Diesel		2.00	3.89			
						3.00	3.68			
M 111.970, M 111.974, M 161.970, M 161.974	2295	4	1997-2010	Chairman, Korando, Musso, Actyon, Kyron 2.3L	90.90	1.50	3.40	AS12003	4 Cyl.	STD
						1.75	3.63	AS12003010		0.25
						3.00	3.07	AS12003020		0.50

										
STERLING										
	2494	6	1986-89	C25A1	84.00	1.20	3.33	AS12101	6 Cyl.	STD
						1.20	3.33	AS12101010		0.50
						4.00	3.43	AS12101020		0.75
								AS12101030		1.00
	2675	6	1988-97	C27A1	87.00	1.20	3.33	AS12102	6 Cyl.	STD
						1.20	3.35	AS12102010		0.50
						4.00	3.43	AS12102020		0.75
								AS12102030		1.00
STUDEBAKER										
245 cu. in.		6	1939-50	226 & Eng.	84.14	2.38	3.99	AS12201	6 Cyl.	STD
246 cu. in.			1939-63	226, Eng. 14A, 15A, 16A, 17A, Land Cruiser, Commander 9A, 10A, 11A, 12A, #81539-on		2.38	4.01	AS12201010		0.75
						4.75	1.27			
		8	1951-54	3R28, 3R28B, 3R38, 3R38B, VT Eng.	85.73	2.00	4.04	AS12202	8 Cyl.	STD
233 cu. in.			1954	Models H, 3H, 4H, Commander 5H		2.00	4.06			
						4.75	1.27			
289 cu. in.		8	1955-64	224, 259, Eng.	90.49	2.00	4.01	AS12203	8 Cyl.	STD
289 cu. in.			1955-64	224, 259, Eng. Avanti 63R, Exc. 1956 Golden Hawk		2.00	4.29	AS12203010		1.50
						4.75	4.62			
STUDEBAKER & LARK										
194 cu. in.		6	1965-66		90.49	2.00	4.01	AS12301	6 Cyl.	STD
						2.00	4.29	AS12301010		0.50
						4.75	4.62	AS12301020		1.50
								AS12302		STD
								AS12302010		1.50
								AS12303		STD
								AS12303010		1.50
283 cu. in.		8	1965-66		98.43	2.00	4.62	AS12304	8 Cyl.	STD
						2.00	4.65	AS12304010		0.25
						4.75	4.88	AS12304020		0.50
								AS12304030		0.75
								AS12304040		1.00
								AS12304050		1.50
								AS12304060		2.00
								AS12305		STD
								AS12305010		0.25
								AS12305020		0.50
								AS12305030		0.75
								AS12305040		1.00
								AS12305050		1.50
								AS12305060		2.00
								AS12306		STD
								AS12306010		0.25
								AS12306020		0.50
								AS12306030		0.75
								AS12306040		1.00
								AS12306050		1.50
								AS12306060		2.00

										
STUDEBAKER & LARK										
230 cu. in.		6	1966		98.43	2.00	4.62		AS12307 6 Cyl.	STD
						2.00	4.65		AS12307010	0.25
						4.75	4.88		AS12307020	0.50
									AS12307030	0.75
									AS12307040	1.00
									AS12307050	1.50
									AS12307060	2.00
									AS12308	STD
									AS12308010	0.25
									AS12308020	0.50
									AS12308030	0.75
									AS12308040	1.00
									AS12308050	1.50
									AS12308060	2.00
									AS12309	STD
									AS12309010	0.25
									AS12309020	0.50
									AS12309030	0.75
									AS12309040	1.00
									AS12309050	1.50
									AS12309060	2.00
352 cu. in.		8	1956	Golden Hawk 56J	101.60	2.00	4.78		AS12310 8 Cyl.	STD
						2.00	4.80		AS12310010	0.25
						4.75	4.88		AS12310020	0.50
									AS12310030	0.75
									AS12310040	1.00
									AS12310050	1.50
									AS12310060	1.75
									AS12310070	2.00
									AS12310080	2.50
									AS12311	STD
									AS12311010	0.25
									AS12311020	0.50
									AS12311030	0.75
									AS12311040	1.00
									AS12311050	1.50
									AS12311060	1.75
									AS12311070	2.00
									AS12312	STD
									AS12312010	0.13
									AS12312020	0.25
									AS12312030	0.50
									AS12312040	0.75
									AS12312050	1.00
									AS12312060	1.50
									AS12312070	1.75
									AS12312080	2.00
									AS12312090	2.50
SUBARU										
	1248		2003-OnTDi	Diesel Z13DT	69.60	2.00	3.05		AS12401 1 Cyl.	STD
						1.50	3.07		AS12401010 1 Cyl.	0.40
						2.00	2.90		AS12401020 1 Cyl.	0.60
	997	4	1967-69	997cc A12	72.00	2.00	3.38		AS12402 4 Cyl.	STD
						2.00	3.40			
						4.00	3.81			
	1088	4	1970-72	E61S	76.00	2.00	3.20		AS12403 4 Cyl.	STD
						2.00	3.23		AS12403010	0.25
						4.00	3.68		AS12403020	0.50
									AS12403030	0.75
									AS12403040	1.00
									AS12403050	1.50
									AS12404	STD
									AS12404010	0.25
									AS12404020	0.50
									AS12404030	0.75
									AS12404040	1.00
									AS12404050	1.50

										
SUBARU										
	544			544cc Rex, Sanba, EK23	76.00	1.50	3.45	AS12405	2 Cyl.	STD
						1.50	3.48	AS12405010		0.25
						2.80	3.30	AS12405020		0.50
								AS12405030		0.75
								AS12405040		1.00
								AS12406		STD
								AS12406010		0.25
								AS12406020		0.50
								AS12406030		0.75
								AS12406040		1.00
	700			700cc Rex, E42	78.00	1.20	3.33	AS12407	2 Cyl.	STD
						1.50	3.71	AS12407010		0.50
						2.80	3.18	AS12407020		0.75
								AS12407030		1.00
	1189			1987-93 Justy, EF10, EF12	78.00	1.20	3.33	AS12408	3 Cyl.	STD
						1.50	3.71	AS12408010		0.50
						2.80	3.18	AS12408020		0.75
								AS12408030		1.00
	1267	4		1971-73 E62, E62S	82.00	2.00	3.86	AS12409	4 Cyl.	STD
						2.00	3.25	AS12409010		0.50
						4.00	4.24	AS12409020		0.75
								AS12409030		1.00
								AS12409040		1.50
								AS12410		STD
								AS12410010		0.25
								AS12410020		0.50
								AS12410030		0.75
								AS12410040		1.00
								AS12410050		1.50
	1298	4		EA65	83.00	1.20	3.53	AS12411	4 Cyl.	STD
						1.50	3.25	AS12411010		0.25
						4.00	4.24	AS12411020		0.50
								AS12411030		0.75
								AS12411040		1.00
	1361	4		1973-76 1400 DL, GF, GL	85.00	2.00	3.81	AS12412	4 Cyl.	STD
						2.00	4.04	AS12412010		0.50
						4.00	4.11	AS12412020		0.75
								AS12412030		1.00
								AS12412040		1.50
								AS12413		STD
								AS12413010		0.50
								AS12413020		0.75
								AS12413030		1.00
								AS12413040		1.50
	1820	4		1993-OnImpreza, EJ18	87.90	1.20	3.33	AS12414	4 Cyl.	STD
						1.50	3.73	AS12414010		0.25
						3.00	2.92	AS12414020		0.50
								AS12414030		0.75
								AS12414040		1.00
	2999	6		2005-10 EZ30 H6 DOHC	89.20	1.20	3.33	AS12415	6 Cyl.	STD
						1.20	3.68	AS12415010		0.50
						2.50	3.05			
	2000	4		1993-OnImpreza, EJ20	92.00	1.20	3.73	AS12416	4 Cyl.	STD
	2000			1997-On Forester, EJ20 Turbo		1.50	3.78	AS12416010		0.50
						3.00	3.18	AS12416020		1.00
122cu. in.	1994	4		2002-04 1 EJ20 DOHC, incl.Turbo w/2.5mm oil rings	92.00	1.20	3.33	AS12417	4 Cyl.	STD
						1.20	3.81	AS12417010		0.50
						2.50	3.05	AS12417020		0.75
								AS12417030		1.00

										
SUBARU										
	1595	4	1975-83	Engs. EA71	92.00	2.00	4.32	AS12418	4 Cyl.	STD
	1781					2.00	4.09	AS12418010		0.25
						4.00	4.24	AS12418020		0.50
								AS12418030		0.75
								AS12418040		1.00
								AS12419		STD
								AS12419010		0.25
								AS12419020		0.50
								AS12419030		0.75
								AS12419040		1.00
								AS12419050		1.50
								AS12420		STD
								AS12420010		0.50
								AS12420020		0.75
								AS12420030		1.00
	1781	4	1982-93	EA71, EA81, EA82 Incl. Turbo	92.00	1.20	3.73	AS12421	4 Cyl.	STD
						1.50	4.09	AS12421010		0.25
						4.00	4.24	AS12421020		0.50
								AS12421030		0.75
								AS12421040		1.00
	3629	6	2008-13	ENG. EZ36D DOHC FI Legacy, Outback, Tribeca	92.00	1.20	3.33	AS12422	6 Cyl.	STD
						1.20	3.81	AS12422010		0.50
						2.00	2.67			
	3318	6	1991-92	SVX, EJ33	96.90	1.50	3.45	AS12423	6 Cyl.	STD
						1.50	3.99	AS12423010		0.50
						3.00	3.05	AS12423020		0.75
								AS12423030		1.00
								AS12424		STD
								AS12424010		0.50
								AS12424020		0.75
								AS12424030		1.00
	2212	4	2000-On	EJ22	96.90	1.20	3.53	AS12425	4 Cyl.	STD
						1.20	4.17	AS12425010		0.50
						2.50	3.05	AS12425020		0.75
	2212	4	1990-99	Legacy, EJ22E	97.00	1.20	3.53	AS12426	4 Cyl.	STD
						1.50	4.22	AS12426010		0.50
						3.00	3.30	AS12426020		0.75
								AS12426030		1.00
	2457	4	1996-99	EJ25, EJ25D	99.50	1.20	3.73	AS12427	4 Cyl.	STD
						1.50	4.24	AS12427010		0.25
						2.80	3.56	AS12427020		0.50
								AS12427030		0.75
								AS12427040		1.00
	2458	4	1999-12	EJ255, 16V SOHC Caution; w/2.5mm oil grv	99.50	1.20	3.73	AS12428	4 Cyl.	STD
						1.20	4.37	AS12428010		0.25
						2.50	3.18	AS12428020		0.50
								AS12428030		0.75
								AS12428040		1.00
	2457	4	2005-12	EJ257 WRX Sti DOHC Caution; w/2.0mm oil grv.	99.50	1.20	3.73	AS12429	4 Cyl.	STD
						1.20	4.37	AS12429010		0.50
						2.00	2.92	AS12429020		0.75
								AS12429030		1.00
SUNBEAM-TALBOT										
	1600	4	1973-76	Avenger	87.31	2.00	4.11	AS12501	4 Cyl.	STD
						2.00	4.14			
						4.00	4.50			
								AS12502		STD

										
SUNBEAM-TALBOT										
260 cu. in.	8	1964-67	Ford	96.52	2.00	3.71		AS12502	8 Cyl.	STD
					2.38	4.24		AS12502010		0.75
					4.75	4.62		AS12502020		1.00
								AS12502030		1.50
								AS12503		STD
								AS12503010		0.75
								AS12503020		1.00
								AS12503030		1.50
								AS12504		STD
								AS12504010		0.75
								AS12504020		1.00
								AS12504030		1.50
SUZUKI										
543			543cc F5A, LJ80/81	62.00	1.50	3.12		AS12601	3 Cyl.	STD
					1.50	3.15		AS12601010		0.50
					2.80	1.14		AS12601020		0.75
								AS12601030		1.00
797	4		797cc FA8, SJ20, ST90	62.00	1.50	2.90		AS12602	4 Cyl.	STD
797					1.50	2.92		AS12602010		0.25
					2.80	3.18		AS12602020		0.50
								AS12602030		0.75
								AS12602040		1.00
970	4		970cc Jimmy F10A, SJ-410	65.50	1.50	2.69		AS12603	4 Cyl.	STD
					1.50	2.72		AS12603010		0.50
					2.80	1.14		AS12603020		1.00
								AS12604		STD
								AS12604010		0.25
								AS12604020		0.50
								AS12604030		0.75
								AS12604040		1.00
								AS12604050		1.50
996	4		1997-On 996cc K10A Alto	68.00	1.00	2.92		AS12605	4 Cyl.	STD
					1.20	3.07		AS12605010		0.25
					2.00	2.67		AS12605020		0.50
								AS12605030		0.75
								AS12605040		1.00
660			660cc DAMAS, LABO, TICO	68.50	1.20	2.92		AS12606	3 Cyl.	STD
					1.50	2.62		AS12606010		0.25
					2.80	3.30		AS12606020		0.50
								AS12606030		0.75
								AS12606040		1.00
1061	4		1981-On SS-80	68.50	1.50	2.67		AS12607	4 Cyl.	STD
					1.50	2.62		AS12607010		0.25
					2.80	3.30		AS12607020		0.50
800			800cc Fronte SS80, Y64, 65	68.50	1.50	2.67		AS12608	3 Cyl.	STD
					1.50	2.62		AS12608010		0.25
					2.80	3.30		AS12608020		0.50
								AS12608030		0.75
								AS12608040		1.00
								AS12608050		1.50
1248			2003-05 Turbo Diesel Z13TD Euro 4	69.60	2.00	3.05		AS12609	1 Cyl.	STD
					1.50	3.07		AS12609010	1 Cyl.	0.40
					2.00	2.90		AS12609020	1 Cyl.	0.60
4			K12A Wagon R, SR-412	71.00	1.00	2.44		AS12610	4 Cyl.	STD
					1.20	3.12		AS12610010		0.50
					2.00	2.79				
993			1998-04 993cc Eng G10A	74.00	1.20	2.92		AS12611	3 Cyl.	STD
					1.20	2.97		AS12611010		0.25
					2.50	2.79		AS12611020		0.50
								AS12611030		0.75
								AS12611040		1.00

										
SUZUKI										
	1298	4	1986-97	Samurai, Sidekick, G10, G13A, G13AB, G13K, G13S 3 Ring Piston	74.00	1.20	2.92	AS12612	4 Cyl.	STD
						1.50	3.23	AS12612010		0.25
						2.80	3.18	AS12612020		0.50
								AS12612030		0.75
								AS12612040		1.00
								AS12612050		1.50
	1324	4		Swift 2 Ring Piston	74.00	1.20	2.92	AS12613	4 Cyl.	STD
						2.80	1.14	AS12613010		0.50
								AS12613020		0.75
								AS12613030		1.00
			1989-93	61cu. in. 2 Ring Piston	74.00	1.20	2.92	AS12614	3 Cyl.	STD
						2.80	3.18	AS12614010		0.50
								AS12614020		0.75
								AS12614030		1.00
	1298	4	1998	G13KS	74.00	1.20	2.92	AS12615	4 Cyl.	STD
						1.20	2.97	AS12615010		0.25
						2.50	2.79	AS12615020		0.50
								AS12615030		0.75
								AS12615040		1.00
	1590	4	1989-98	Sidekick, G16K, G16KC, G16KV, G16N	75.00	1.20	2.92	AS12616	4 Cyl.	STD
						1.50	3.23	AS12616010		0.25
						2.80	3.30	AS12616020		0.50
								AS12616030		0.75
								AS12616040		1.00
								AS12616050		1.50
	1590	4	1996-02	Esteem, G16KV, G16S	75.00	1.20	2.92	AS12617	4 Cyl.	STD
						1.20	2.97	AS12617010		0.25
						2.50	2.79	AS12617020		0.50
								AS12617030		0.75
								AS12617040		1.00
	2000	6	2000-On	Escudo DOHC V-6 H20 Grand Escudo V type	78.00	1.20	3.33	AS12618	6 Cyl.	STD
						1.50	3.71	AS12618010		0.50
						2.50	2.92	AS12618020		0.75
								AS12618030		1.00
	1328	4	2000-08	M13A Ignis, Jimmy, Swift	78.00	1.20	3.12	AS12619	4 Cyl.	STD
	1490		2000-08	M15A Ignis, Jimmy, Swift		1.20	3.23	AS12619010		0.50
						2.50	2.67	AS12619020		0.75
	2000	4		Escudo SOHC	78.00	1.20	3.33	AS12620	4 Cyl.	STD
						1.50	3.71	AS12620010		0.50
						2.50	2.92	AS12620020		0.75
								AS12620030		1.00
	1905		1996-98	Diesel XUD9SD	83.00	3.50	3.61	AS12621	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
	1905		1996-99	Diesel XUD9SD	83.00	3.00	3.61	AS12622	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
	1905		1995-98	Diesel XUD9A	83.00	2.00	3.61	AS12623	1 Cyl.	STD
						2.00	3.63			
						3.00	3.68			
	1995	4	2010-13	J20B SX4	84.00	1.20	2.92	AS12624	4 Cyl.	STD
						1.00	2.95			
						2.00	2.54			
	1995	4	2007-12	DOHC FI. MR20G SX-4, SX-4 Crossover	84.00	1.20	2.92	AS12625	4 Cyl.	STD
						1.20	3.33	AS12625010		0.50
						2.50	2.79			
	1800	4	1996-04	Sidekick Sport	84.00	1.20	2.92	AS12626	4 Cyl.	STD

										
SUZUKI										
	1995		1996-04	J20A		1.50	3.73	AS12626010		0.25
						2.50	2.79	AS12626020		0.50
								AS12626030		0.75
								AS12626040		1.00
								AS12627		STD
	2494	6	1999-06	H25A Grand Vitara	84.00	1.20	3.33	AS12628	6 Cyl.	STD
						1.50	3.73	AS12628010		0.25
						2.50	2.79	AS12628020		0.50
								AS12628030		0.75
								AS12628040		1.00
	1995	4	2003-08	KL5J DOHC ETEC L34 Foreza, Reno	86.00	1.20	3.33	AS12629	4 Cyl.	STD
						1.50	3.43	AS12629010		0.50
						2.50	3.05	AS12629020		0.75
								AS12629030		1.00
								AS12629040		0.50
	2737	6	2001-08	H27A DOHC	88.00	1.20	3.33	AS12630	6 Cyl.	STD
						1.50	3.63	AS12630010		0.50
						2.80	2.92	AS12630020		0.75
								AS12630030		1.00
	2488	4	2009-12	QR25DE DOHC 16V Equator (Nissan)	89.00	1.20	3.33	AS12631	4 Cyl.	STD
						1.20	3.68	AS12631010		0.25
						2.50	3.05	AS12631020		0.50
								AS12631030		0.75
								AS12631040		1.00
	2294	4	2004-08	Aerio DOHC J23A	90.00	1.20	3.53	AS12632	4 Cyl.	STD
						1.20	3.81	AS12632010		1.25
						2.50	2.79	AS12632020		2.50
J24B	2393	4	2009-12	DOHC, GRAND VITARA, KIZASHI, ESCUDE, ALLRAD	92.00	1.20	3.33	AS12633	4 Cyl.	STD
						1.00	3.35	AS12633010		1.25
						2.00	2.92			
TATA										
	1390	4		MPFI, Indica	75.00	1.20	2.92	AS12701	4 Cyl.	STD
						1.50	3.23	AS12701010		0.50
						2.80	2.79	AS12701020		1.00
THAMES-ALSO SEE FORD										
		4		800 Frighter	82.55	2.00	3.89	AS12801	4 Cyl.	STD
						2.00	3.91	AS12801010		0.25
						4.75	1.27	AS12801020		1.50
								AS12802		STD
TOYOTA										
	1000	4		1E, 1EL Starlet FWD	70.50	1.50	2.82	AS12901	4 Cyl.	STD
						1.50	3.33			
						3.00	2.92			
	996		2005-On	996cc 1KR-FE 12V Aygo, Vitz, Yaris	71.00	1.00	2.44	AS12902	3 Cyl.	STD
						1.00	2.72	AS12902010		0.50
						1.50	2.34	AS12902020		1.00

										
TOYOTA										
	1298	4	2005-08	K3-VE Myvi, Scion	72.00	1.20	2.92	AS12903	4 Cyl.	STD
						1.20	3.10	AS12903010		0.41
						2.00	2.67	AS12903020		0.50
								AS12903030		0.61
								AS12903040		0.75
								AS12903050		1.00
	993	4	1966-74	993cc 2K	72.00	2.00	3.38	AS12904	4 Cyl.	STD
						2.00	3.40			
						4.00	3.81			
1NR-FE	1329	4	2009-13	1.3L Auris, Corolla, Hybrid, Verso, Yaris	72.50	1.00	2.92	AS12905	4 Cyl.	STD
2NR-FE	1496		2010-15	1.5L DOHC-16V Etios NGK12, NGK15		1.00	3.10			
3NR-FE	1197		2010-on	1.2L DOHC-16V Etios NGK10		2.00	2.67			
	1456	4	1987-97	2E-L, 3E, 3EE	73.00	1.50	3.10	AS12906	4 Cyl.	STD
						1.50	3.07	AS12906010		0.50
						3.00	3.18	AS12906020		0.75
								AS12906030		1.00
								AS12906040		1.50
								AS12907		STD
								AS12907010		0.25
								AS12907020		0.50
								AS12907030		0.75
								AS12907040		1.00
								AS12907050		1.50
								AS12908		STD
								AS12908010		0.25
								AS12908020		0.50
								AS12908030		0.75
								AS12908040		1.00
	1364		1999-07	Diesel 1ND-TV SOHC Corolla, Yaris w/Nitrided top ring and 2pc oil ring	73.00	1.50	2.46	AS12909	1 Cyl.	STD
						1.50	2.82			
						3.00	3.68			
	1398		2005-On	Diesel 2WZ-TV	73.70	2.50	3.25	AS12910	1 Cyl.	STD
						1.95	3.28	AS12910010		0.25
						2.50	3.33	AS12910020		0.50
	1497	4		5EFE, DOHC Paseo	74.00	1.20	2.92	AS12911	4 Cyl.	STD
						1.20	2.97	AS12911010		0.25
						3.00	2.79	AS12911020		0.50
								AS12911030		0.75
								AS12911040		1.00
								AS12911050		1.50
	1988	6		1G, 1GE, 1GEV	75.00	1.50	2.95	AS12912	6 Cyl.	STD
						1.50	3.23	AS12912010		0.25
						4.00	3.43	AS12912020		0.50
								AS12912030		0.75
								AS12912040		1.00
								AS12913		STD
								AS12913010		0.25
								AS12913020		0.50
								AS12913030		0.75
								AS12913040		1.00
	1497	4	2000-05	1NZFE, 1NZFXE Echo, Prius	75.00	1.20	2.92	AS12914	4 Cyl.	STD
						1.20	2.97	AS12914010		0.50
						2.00	3.05	AS12914020		0.75
								AS12914030		1.00
								AS12914040		1.50
								AS12915		STD

										
TOYOTA										
	1290	4	1983-84	Starlet, 4KE	75.00	1.50	2.95	AS12916	4 Cyl.	STD
						1.50	3.23	AS12916010		0.25
						4.00	3.43	AS12916020		0.50
								AS12916030		0.75
	1290		1983-84					AS12916040		1.00
								AS12917		STD
								AS12917010		0.25
								AS12917020		0.50
								AS12917030		0.75
								AS12917040		1.00
								AS12917050		1.50
	2253	6	1966-72	Crown OHC, MS Series, M; 2M, 2000	75.00	2.00	3.45	AS12918	6 Cyl.	STD
	1988		1966-71	50 MS Series		2.00	3.48	AS12918010		1.00
						4.00	3.94			
								AS12919		STD
								AS12919010		0.50
								AS12919020		0.75
								AS12919030		1.00
								AS12919040		1.50
	1077	4	1968-78	Corolla 1100,K, KC, 3K	75.00	2.00	3.45	AS12920	4 Cyl.	STD
	1166					2.00	3.48	AS12920010		0.50
	1290		1980-82	Starlet, 4KC		4.00	3.94	AS12920020		0.75
								AS12920030		1.00
								AS12920040		1.50
								AS12921		STD
								AS12921010		0.25
								AS12921020		0.50
								AS12921030		0.75
								AS12921040		1.00
								AS12921050		1.50
								AS12921060		1.60
	1077	4	1968-78	Corolla 1100,K, KC, 3K, Shallow Oil Ring Groove	75.00	2.00	3.45	AS12922	4 Cyl.	STD
	1166					2.00	3.48	AS12922010		0.50
	1290		1980-82	Starlet, 4KC Shallow Oil Ring Groove		4.00	2.92	AS12922020		0.75
								AS12922030		1.00
								AS12922040		1.50
								AS12923		STD
								AS12923010		0.25
								AS12923020		0.50
								AS12923030		0.75
								AS12923040		1.00
								AS12923050		1.50
	1295	4	1979-On2A, 2AL		76.00	2.00	3.20	AS12924	4 Cyl.	STD
						2.00	3.23	AS12924010		0.25
						4.00	3.68	AS12924020		0.50
								AS12924030		0.75
								AS12924040		1.00
								AS12924050		1.50
								AS12925		STD
								AS12925010		0.25
								AS12925020		0.50
								AS12925030		0.75
								AS12925040		1.00
								AS12925050		1.50
	1345	4		Fork Lift Truck, 3P	76.60	2.00	3.45	AS12926	4 Cyl.	STD
	1493					2.00	3.48			
						4.00	1.27			
								AS12927		STD
								AS12927010		0.50
								AS12927020		0.75
								AS12927030		1.00
								AS12927040		1.50

										
TOYOTA										
	1452	4	1980-88	Tercel, OHC, 3AC	77.50	1.50	3.35	AS12928	4 Cyl.	STD
						1.50	3.71	AS12928010		0.50
						2.80	3.30	AS12928020		0.75
								AS12928030		1.00
								AS12929		STD
								AS12929010		0.25
								AS12929020		0.50
								AS12929030		0.75
								AS12929040		1.00
	1490	4	1965-69	Corona, 2R	78.00	2.00	3.68	AS12930	4 Cyl.	STD
						2.50	3.71			
						4.00	4.11			
								AS12931		STD
								AS12931010		1.00
	1762	4	1998-08	, 1ZZFE	79.00	1.20	3.33	AS12932	4 Cyl.	STD
						1.20	3.48	AS12932010		0.25
						3.00	2.92	AS12932020		0.50
								AS12932030		0.75
								AS12932040		1.00
								AS12932050		1.50
	2563	6	1971-80	Cressida, 4M, 4ME	80.00	2.00	3.18	AS12933	6 Cyl.	STD
	2600		1973-73	Mark II, MX23L, 4M		2.00	3.71	AS12933010		0.50
			1971-75	Crown MS 63-65, MS75		4.00	3.81	AS12933020		0.75
								AS12933030		1.00
								AS12933040		1.50
								AS12934		STD
								AS12934010		0.50
								AS12934020		0.75
								AS12934030		1.00
	1798	4	2009-13	2ZRFE DOHC Corolla, Matrix	80.50	1.00	3.33	AS12935	4 Cyl.	STD
						1.00	3.02	AS12935010		0.50
						1.50	2.34	AS12935020		0.75
								AS12935030		1.00
	1587	4	1971-74	Corona 1600 RT81 Hi-Lux, 12R	80.50	2.00	3.18	AS12936	4 Cyl.	STD
						2.00	3.20	AS12936010		0.25
						4.00	1.27	AS12936020		0.50
								AS12936030		1.00
								AS12936040		1.50
								AS12937		STD
								AS12937010		0.25
								AS12937020		0.50
								AS12937030		1.00
3ZR-FE, 3ZR-FAE	1986	4	2013-on	16V DOHC FLEX FUEL TURBO, COROLLA, RAV4, AVENSIS, VOXY, NOAH	80.50	1.20	3.33	AS12938	4 Cyl.	STD
						1.00	3.02	AS12938010		0.50
						2.00	2.92	AS12938020		1.00
5K	1487	4	1986	5K	80.50	1.50	3.18	AS12939	4 Cyl.	STD
	1487		1986			1.50	3.35	AS12939010		0.50
						4.00	3.30	AS12939020		0.75
								AS12939030		1.00

											
TOYOTA											
	1587	4	1988-93	6, 4AF, 4AFE 4AGZE Super charged	81.00	1.50	3.18		AS12940	4 Cyl.	STD
	1587		1988-93			1.50	3.23		AS12940010		0.50
						3.00	3.18		AS12940020		0.75
									AS12940030		1.00
									AS12941		STD
									AS12941010		0.25
									AS12941020		0.50
									AS12941030		0.75
									AS12941040		1.00
									AS12942		STD
									AS12942010		0.25
									AS12942020		0.50
									AS12942030		0.75
	1587	4	1990-93	5, 4AGE	81.00	1.20	3.33		AS12943	4 Cyl.	STD
						1.50	3.23		AS12943010		0.50
						2.80	3.18		AS12943020		0.75
									AS12943030		1.00
	1587	4	1993-97	4AFE, 4AG	81.00	1.20	3.33		AS12944	4 Cyl.	STD
	1587		1993-94	98cu.in, Vin:6		1.50	3.23		AS12944010		0.25
						3.00	3.18		AS12944020		0.50
									AS12944030		0.75
									AS12944040		1.00
									AS12945		STD
									AS12945010		0.25
									AS12945020		0.50
									AS12945030		0.75
	1762	4	1993-97	7AFE	81.00	1.20	3.33		AS12946	4 Cyl.	STD
						1.50	3.23		AS12946010		0.25
						3.00	2.67		AS12946020		0.50
									AS12946030		0.75
									AS12946040		1.00
	1587	4	1983-89	Corolla, MR2 4A, 4AC, 4AE, 4AG, 4AGZE, 4ALC	81.00	1.50	3.18		AS12947	4 Cyl.	STD
	1587		1983-89			1.50	3.23		AS12947010		0.25
						2.80	3.18		AS12947020		0.50
									AS12947030		0.75
									AS12947040		1.00
									AS12947050		1.50
									AS12948		STD
									AS12948010		0.25
									AS12948020		0.50
									AS12948030		0.75
									AS12948040		1.00
									AS12949		STD
									AS12949010		0.25
									AS12949020		0.50
									AS12949030		0.75
									AS12949040		1.00
	1796	4	2001-06	2ZZEE, 2ZZGE DOHC	82.00	1.20	3.12		AS12950	4 Cyl.	STD
						1.20	3.48		AS12950010		0.50
						3.00	2.79		AS12950020		0.75
									AS12950030		1.00
	1998		1998-08	1CD, 1CDA Turbo Diesel DOHC Corolla	82.20	2.00	2.97		AS12951	1 Cyl.	STD
						1.50	2.87				
						3.00	3.43				
	1839	4		Diesel Corolla, 1CLC, 1CTL, 83.00 Turbo Diesel		2.00	3.53		AS12952	4 Cyl.	STD
						2.00	3.35		AS12952010		0.25
						4.00	3.84		AS12952020		0.50
									AS12952030		0.75
									AS12952040		1.00

										
TOYOTA										
	1839	4		1C	83.00	2.00	3.53	AS12953	4 Cyl.	STD
						2.00	3.35	AS12953010		0.50
						3.00	3.30	AS12953020		1.00
	2759	6	1982-87	5MGE, 5MGEV	83.00	1.50	3.20	AS12954	6 Cyl.	STD
	2954		1982-93	7MGE, 7MGTE Incl. Turbo		1.50	3.25	AS12954010		0.50
						4.00	3.43	AS12954020		0.75
								AS12954030		1.00
								AS12955		STD
								AS12955010		0.50
								AS12955020		0.75
								AS12955030		1.00
								AS12955040		1.50
								AS12956		STD
								AS12956010		0.50
								AS12956020		0.75
								AS12956030		1.00
	2759	6	1981-82	5M, 5ME	83.00	2.00	3.78	AS12957	6 Cyl.	STD
						2.00	3.81	AS12957010		0.25
						4.00	3.43	AS12957020		0.50
								AS12957030		0.75
								AS12957040		1.00
								AS12958		STD
								AS12958010		0.25
								AS12958020		0.50
								AS12958030		0.75
								AS12958040		1.00
	1995	4	1984-86	Camry, 2SELC, 21RC	84.00	1.50	3.20	AS12959	4 Cyl.	STD
						1.50	3.73	AS12959010		0.25
						4.00	3.43	AS12959020		0.50
								AS12959030		0.75
								AS12959040		1.00
								AS12959050		1.50
								AS12960		STD
								AS12960010		0.25
								AS12960020		0.50
								AS12960030		0.75
								AS12960040		1.00
	1972	4	1970-78	Corona, 21R	84.00	2.00	3.99	AS12961	4 Cyl.	STD
						2.00	3.84	AS12961010		0.50
						4.00	3.43	AS12961020		0.75
								AS12961030		1.00
								AS12961040		1.50
								AS12962		STD
								AS12962010		0.25
								AS12962020		0.50
								AS12962030		0.75
								AS12962040		1.00
								AS12962050		1.50
	1972	4	1982-On	21R Export Only	84.00	1.50	3.20	AS12963	4 Cyl.	STD
						2.00	3.84	AS12963010		0.50
						4.00	3.43	AS12963020		0.75
								AS12963030		1.00
								AS12964		STD
								AS12964010		0.50
								AS12964020		1.00
	4		1983-84	Camry, 2SEL	84.50	1.50	3.43	AS12965	4 Cyl.	STD
						1.50	3.84	AS12965010		0.50
						4.00	3.94	AS12965020		0.75
								AS12965030		1.00
								AS12965040		1.50
								AS12966		STD
								AS12966010		0.50
								AS12966020		0.75
								AS12966030		1.00

										
TOYOTA										
	1588	4	1971-77	Corolla 1600, 2TC	85.00	2.00	3.81	AS12967	4 Cyl.	STD
	1588		1971-74	Carina 1600, 2TC, 2TE		2.00	4.04	AS12967010		0.50
						4.00	4.11	AS12967020		0.75
								AS12967030		1.00
								AS12967040		1.50
								AS12968		STD
								AS12968010		0.50
								AS12968020		0.75
								AS12968030		1.00
								AS12968040		1.50
	1588	4	1978-79	2TC	85.00	1.50	3.43	AS12969	4 Cyl.	STD
	1770		1980-82	, Corolla, 3TC, 12T, 13T		1.50	3.43	AS12969010		0.25
						4.00	3.81	AS12969020		0.50
								AS12969030		0.75
								AS12969040		1.00
								AS12969050		1.50
								AS12970		STD
								AS12970010		0.25
								AS12970020		0.50
								AS12970030		0.75
								AS12970040		1.00
								AS12970050		1.50
								AS12971		STD
								AS12971010		0.25
								AS12971020		0.50
								AS12971030		1.50
	1897	4	1986-On,	10R	86.00	2.00	3.71	AS12972	4 Cyl.	STD
						2.00	3.89	AS12972010		0.25
						4.00	3.78	AS12972020		0.50
								AS12972030		0.75
								AS12972040		1.00
	1998	4	1984-92	Van-Wagon, 3SFE, 3Y Hiace	86.00	1.50	3.45	AS12973	4 Cyl.	STD
						1.50	3.78	AS12973010		0.50
						4.00	3.43	AS12973020		0.75
								AS12973030		1.00
								AS12973040		1.50
								AS12974		STD
								AS12974010		0.25
								AS12974020		0.50
								AS12974030		0.75
								AS12974040		1.00
								AS12974050		1.50
								AS12975		STD
								AS12975010		0.50
								AS12975020		0.75
								AS12975030		1.00
	1998	4	1986-94	3SGELC, 3SGTE	86.00	1.20	3.33	AS12976	4 Cyl.	STD
	1998		1986-89			1.50	3.78	AS12976010		0.50
						4.00	3.43	AS12976020		0.75
								AS12976030		1.00
	2997	6	1993-98	2JZGE, 2JZGTE DOHC Ind. Turbo	86.00	1.50	3.86	AS12977	6 Cyl.	STD
						1.50	3.78	AS12977010		0.25
						4.00	3.43	AS12977020		0.50
								AS12977030		0.75
								AS12977040		1.00
	1998	4	1998	3SFE, L4, RAV 4	86.00	1.20	3.12	AS12978	4 Cyl.	STD
						1.20	3.58	AS12978010		0.25
						3.00	2.67	AS12978020		0.50
								AS12978030		0.75
								AS12978040		1.00
	1998	4	2001-04	1AZFE, L4, RAV4	86.00	1.20	3.12	AS12979	4 Cyl.	STD
						1.20	3.58	AS12979010		0.50
						2.00	2.79	AS12979020		0.75
								AS12979030		1.00

										
TOYOTA										
1RE, 1RZ	1998	4		1RZ, 2000P, 8V	86.00	1.75	3.20	AS12980	4 Cyl.	STD
						1.50	3.43	AS12980010		0.50
						4.00	3.43	AS12980020		1.00
	1591	4	1971-72	Celica RA & ST Series 1900, 7R, 8R, 8RC	86.00	2.00	4.04	AS12981	4 Cyl.	STD
	1591		1970-76	Corona OHC, RT83, RT93, 1900, 7R, 8R, 8RC		2.50	4.06	AS12981010		0.75
	1600		1971-74	Corolla, 6RB, 7RB, TE2		4.00	4.75	AS12981020		1.00
			1970-76	Hi-Lux Pickup RN12, 6R, 8R, 8RB, TE2				AS12981030		1.50
			1968-71					AS12982		STD
								AS12982010		0.75
								AS12982020		1.00
								AS12982030		1.50
	1998	4	2005-16	2.0 L DOHC 16V HIACE, TRH102,112, 200	86.00	1.20	3.12	AS12983	4 Cyl.	STD
						1.20	3.58			
						2.00	2.87			
	1998		2006-On1AD-FTV	Diesel DOHC Auris, Verso	86.00	2.00	3.05	AS12984	1 Cyl.	STD
	2231		2005-On2AD-FTV	Diesel DOHC		1.50	3.07			
						2.00	2.87			
	2164	4	1992-98	Camry, 4 Cyl., 16 Valve, 5SFE, DOHC	87.00	1.50	3.61	AS12985	4 Cyl.	STD
						1.50	3.63	AS12985010		0.25
						4.00	3.43	AS12985020		0.50
								AS12985030		0.75
								AS12985040		1.00
								AS12985050		1.50
								AS12986		STD
	2164	4	1990-94	5SFE	87.00	1.50	3.33	AS12987	4 Cyl.	STD
						1.50	3.33	AS12987010		0.50
						3.00	2.67			
								AS12988		STD
								AS12988010		0.50
								AS12988020		0.75
								AS12988030		1.00
	2164	4	1999-02	5SFE	87.00	1.20	3.12	AS12989	4 Cyl.	STD
						1.20	3.35	AS12989010		0.25
						3.00	2.67	AS12989020		0.50
								AS12989030		0.75
								AS12989040		1.00
								AS12989050		1.50
								AS12990		STD
								AS12990010		0.25
	2507	6	1988-91	Eng, 2VZFE	87.50	1.50	3.25	AS12991	6 Cyl.	STD
						1.50	3.28	AS12991010		0.50
						3.00	2.67	AS12991020		0.75
								AS12991030		1.00
	3969	8	1991-97	LS400, SC400, 1UZFE	87.50	1.50	3.25	AS12992	8 Cyl.	STD
						1.50	3.28	AS12992010		0.50
						3.00	2.67	AS12992020		0.75
								AS12992030		1.00

										
TOYOTA										
	2959	6	1988-95	3VZE	87.50	1.50	3.25	AS12993	6 Cyl.	STD
						1.50	3.28	AS12993010		0.50
						4.00	2.92	AS12993020		0.75
								AS12993030		1.00
								AS12994		STD
								AS12994010		0.25
								AS12994020		0.50
								AS12994030		0.75
								AS12994040		1.00
								AS12995		STD
	2995	6	1994-06	1MZFE DOHC	87.50	1.20	3.33	AS12996	6 Cyl.	STD
						1.20	3.33	AS12996010		0.25
						3.00	2.67	AS12996020		0.50
								AS12996030		0.75
								AS12996040		1.00
								AS12997		STD
	1994	4	1967-78	5R, RS50 Crown 2000	88.00	2.00	4.14	AS12998	4 Cyl.	STD
						2.50	4.17	AS12998010		0.50
						4.00	4.24	AS12998020		0.75
								AS12998030		1.00
								AS12998040		1.50
								AS12999		STD
								AS12999010		0.50
								AS12999020		0.75
								AS12999030		1.00
								AS12999040		1.50
	2398	4	2001-07	2AZFE L4 DOHC Camry, Highlander, Solara	88.50	1.20	2.92	AS13000	4 Cyl.	STD
						1.20	3.68	AS13000010		0.25
						2.00	2.79	AS13000020		0.50
								AS13000030		0.75
								AS13000040		1.00
								AS13001		STD
								AS13001010		0.25
								AS13001020		0.50
	2362	4	2007-12	2AZFE L4 DOHC Corolla, Camry, Matrix, Cion XB	88.50	1.00	2.92	AS13002	4 Cyl.	STD
						1.00	3.02	AS13002010		0.50
						2.00	2.79	AS13002020		0.75
								AS13002030		1.00
	1968	4	1971-75	Hi-Lux Pickup, 18R Shallow Oil Ring Groove, Art Piston .156 Depth	88.50	2.00	3.63	AS13003	4 Cyl.	STD
	2000		1972-75	Corona MK II, 18RC Shallow Oil Ring Groove, Art Piston .156 Depth		2.50	4.22	AS13003010		0.25
	2189		1975-80	Celica, Corona, Hi-Lux Pickup, 2.2 Litre 20R Shallow Oil Ring Groove, Art Piston .156 Depth		4.00	3.81	AS13003020		0.50
			1973-74	Corona MK II 2600, 16R 2.6 Litre Shallow Oil Ring Groove, Art Piston .156 Depth				AS13003030		0.75
								AS13003040		1.00
								AS13004		STD
								AS13004010		0.25
								AS13004020		0.50
								AS13004030		0.75
								AS13004040		1.00

										
TOYOTA										
	1968	4	1972-74	Hi-Lux Pickup, 18R Reg. Depth Oil Ring Groove	88.50	2.00	3.63	AS13005	4 Cyl.	STD
	2000		1972-75	Corona Mark II Celica, 18RC Reg. Depth Oil Ring Groove		2.50	4.22	AS13005010		0.50
	2189		1975-80	Celica, Corona, Hi-Lux Pickup, 20R Reg. Depth Oil Ring Groove		4.00	4.88	AS13005020		0.75
			1973-74	Corona MK II 2600, 16R Reg. Depth Oil Ring Groove				AS13005030		1.00
								AS13006		STD
								AS13006010		0.50
								AS13006020		0.75
								AS13006030		1.00
	2494	4	2009-12	2ARFE DOHC VVT-i Camry, RAV4	90.00	1.00	3.33	AS13007	4 Cyl.	STD
	2672		2009-12	1ARFE DOHC Highlander, Venza		1.00	3.35	AS13007010		0.50
						2.00	2.79	AS13007020		0.75
	3878	6	1972-74	Landcruiser, F	90.00	2.00	3.99	AS13008	6 Cyl.	STD
						2.50	4.01	AS13008010		0.50
						4.00	1.27			
						4.00	4.01			
								AS13009		STD
								AS13009010		0.50
	2188	4	1981	, L	90.00	2.50	4.24	AS13010	4 Cyl.	STD
						2.00	4.01	AS13010010		0.50
						4.00	4.29	AS13010020		0.75
								AS13010030		1.00
	2188	4	1981-83	Diesel, LN40	90.00	2.00	3.99	AS13011	4 Cyl.	STD
						2.00	4.01	AS13011010		0.50
						4.00	3.94	AS13011020		0.75
								AS13011030		1.00
	2237	4	1985-90	4Y, Hiace	91.00	1.50	3.43	AS13012	4 Cyl.	STD
						1.50	4.06	AS13012010		0.25
						4.00	3.43	AS13012020		0.50
								AS13012030		0.75
								AS13012040		1.00
								AS13012050		1.50
								AS13013		STD
								AS13013010		0.25
								AS13013020		0.50
								AS13013030		0.75
								AS13013040		1.00
								AS13013050		1.50
	2366	4	1985-95	22R, 22RE, 22RGC, 22RTEC	92.00	1.50	3.48	AS13014	4 Cyl.	STD
						1.50	4.09	AS13014010		0.25
						4.00	3.43	AS13014020		0.50
								AS13014030		0.75
								AS13014040		1.00
								AS13014050		1.50
								AS13015		STD
								AS13015010		0.25
								AS13015020		0.50
								AS13015030		0.75
								AS13015040		1.00
								AS13016		STD
								AS13016010		0.25
								AS13016020		0.50
								AS13016030		0.75
								AS13016040		1.00
								AS13016050		1.50
								AS13017		STD
								AS13017010		0.25
								AS13017020		0.50
								AS13017030		0.75
								AS13017040		1.00

										
TOYOTA										
	2446	4	1985-87	Diesel, 2LT, 2LTE	92.00	2.00	3.84	AS13018	4 Cyl.	STD
						2.00	3.68	AS13018010		0.25
						4.00	4.24	AS13018020		0.50
								AS13018030		0.75
								AS13018040		1.00
	3310	6	2003-10	3MZFE Highlander, Sienna, Solara	92.00	1.20	3.33	AS13019	6 Cyl.	STD
						1.20	3.81	AS13019010		0.50
						3.00	2.67	AS13019020		0.75
								AS13019030		1.00
	2366	4	1981-84	Celica, 22R, 22REC, 43L	92.00	2.00	4.32	AS13020	4 Cyl.	STD
						2.50	4.34	AS13020010		0.25
						4.00	3.43	AS13020020		0.50
								AS13020030		0.75
								AS13020040		1.00
								AS13020050		1.50
								AS13021		STD
								AS13021010		0.25
								AS13021020		0.50
								AS13021030		0.75
								AS13021040		1.00
								AS13021050		1.50
								AS13022		STD
								AS13022010		0.25
								AS13022020		0.50
								AS13022030		0.75
								AS13022040		1.00
								AS13022050		1.50
	2446		1977-06	Turbo Diesel 2L, 2L-T 2L-TE	92.00	2.00	3.58	AS13023	1 Cyl.	STD
						2.00	4.04			
						4.00	4.24			
	3378	6	1995-04	5VZFE	93.50	1.50	3.51	AS13024	6 Cyl.	STD
						1.50	3.84	AS13024010		0.50
						4.00	3.18	AS13024020		0.75
								AS13024030		1.00
								AS13025		STD
								AS13025010		0.50
								AS13025020		0.75
								AS13025030		1.00
								AS13026		STD
								AS13026010		0.50
	3456	6	2005-12	2GRFE Vin: W	94.00	1.20	3.12	AS13027	6 Cyl.	STD
						1.20	3.35	AS13027010		0.50
						2.00	3.05	AS13027020		0.75
								AS13027030		1.00
	4663	8	2005-10	2UZFE DOHC V8	94.00	1.20	3.12	AS13028	8 Cyl.	STD
						1.20	3.35	AS13028010		0.50
						3.00	2.79	AS13028020		0.75
								AS13028030		1.00
	4608	8	2009-13	1URFE DOHC Sequoia, Tundra	94.00	1.20	3.53	AS13029	8 Cyl.	STD
	5663		2007-13	3URFE DOHC Land Crusier, Sequoia, Tundra		1.20	3.35	AS13029010		0.25
						2.00	3.05	AS13029020		0.50
								AS13029030		0.75
								AS13029040		1.00
	3995	6	1986-90	Landcruiser, 3F	94.00	1.50	3.51	AS13030	6 Cyl.	STD
						1.50	3.84	AS13030010		0.50
						4.00	3.68	AS13030020		1.00
	3995		1986-90					AS13031		STD
								AS13031010		0.50
								AS13031020		0.75
								AS13031030		1.00
								AS13031040		1.50

										
TOYOTA										
	3955	6	1988-92	3FE	94.00	2.00	3.51	AS13032	6 Cyl.	STD
						2.00	4.14	AS13032010		0.25
						4.00	3.30	AS13032020		0.50
								AS13032030		0.75
								AS13032040		1.00
	4663	8	1999-04	2UZFE DOHC Landcruiser, Tundra, 4Runner	94.00	1.50	3.45	AS13033	8 Cyl.	STD
						1.50	3.84	AS13033010		0.25
						4.00	2.92	AS13033020		0.50
								AS13033030		0.75
								AS13033040		1.00
	3955	6	2003-13	1GRFE DOHC Tacoma, Tundra	94.00	1.20	3.53	AS13034	6 Cyl.	STD
						1.20	3.35	AS13034010		0.50
						2.00	3.05	AS13034020		0.75
								AS13034030		1.00
	4230	6	1974-87	Landcruiser, 2F	94.00	2.00	4.11	AS13035	6 Cyl.	STD
						2.50	4.45	AS13035010		0.25
						4.00	4.50	AS13035020		0.50
								AS13035030		0.75
								AS13035040		1.00
								AS13035050		1.50
								AS13036		STD
								AS13036010		0.25
								AS13036020		0.50
								AS13036030		0.75
								AS13036040		1.00
								AS13036050		1.50
								AS13037		STD
								AS13037010		0.25
								AS13037020		0.50
								AS13037030		0.75
								AS13037040		1.00
								AS13037050		1.50
	2438	4	1990-97	Eng, 2TZFE, 2TZFZE	95.00	1.75	4.17	AS13038	4 Cyl.	STD
						1.50	3.73	AS13038010		0.50
						4.00	3.56	AS13038020		1.00
								AS13039		STD
								AS13039010		0.50
								AS13039020		0.75
								AS13039030		1.00
	2438	4	1995-97	Eng, 2RZFE	95.00	1.50	3.56	AS13040	4 Cyl.	STD
	2693		1995-08	, 3RZFE		1.50	3.73	AS13040010		0.25
						4.00	3.30	AS13040020		0.50
								AS13040030		0.75
								AS13040040		1.00
								AS13041		STD
								AS13041010		0.25
								AS13041020		0.50
	2438	4	1998-04	Eng, 2RZFE Shallow Oil Ring Groove	95.00	1.50	3.56	AS13042	4 Cyl.	STD
	2693		1999-04	3RZFE, DOHC Shallow Oil Ring Groove		1.50	3.73	AS13042010		0.50
						4.00	2.92	AS13042020		1.00
								AS13043		STD
								AS13043010		0.50
								AS13043020		0.75
								AS13043030		1.00
	2693	4	2006-13	2TRFE, Hiace	95.00	1.20	3.12	AS13044	4 Cyl.	STD
						1.20	3.35	AS13044010		0.25
						2.00	2.92	AS13044020		0.50
								AS13044030		0.75
								AS13044040		1.00

										
TOYOTA										
	2982	4		Diesel 1KD-FTV, 1KZ-T, 1KZ-TE Hi Lux, Tocomo D4-D	96.00	2.00	3.58	AS13045	4 Cyl.	STD
						1.50	3.73	AS13045010		0.50
						3.00	2.82			
	2779	4		Diesel KZTE Hi-Lux Landcruiser, 3L	96.00	2.00	3.58	AS13046	4 Cyl.	STD
						2.00	4.22	AS13046010		0.50
						4.00	5.31	AS13046020		1.00
	2982		2000-06	Turbo Diesel 1KD-FTV DOHC	96.00	2.00	3.45	AS13047	1 Cyl.	STD
						1.50	3.48			
						3.00	2.54			
	3000	4		Diesel 5L Hi-Ace	99.50	2.00	4.22	AS13048	4 Cyl.	STD
						1.50	4.24	AS13048010		0.50
						4.00	5.31	AS13048020		1.00
	4476	6	1994-97	1FZFE	100.00	1.75	3.96	AS13049	6 Cyl.	STD
						2.00	3.99	AS13049010		0.50
						4.00	3.18	AS13049020		0.75
								AS13049030		1.00
								AS13050		STD
								AS13050010		0.25
								AS13050020		0.50
								AS13050030		0.75
								AS13050040		1.00
TRIUMPH										
	250				67.00	1.60	2.77	AS13101		STD
	750			3 Cyl.		1.60	2.79	AS13101010		1.00
						3.18	2.95			
				1967-70				AS13102		STD
				1969-75				AS13102010		1.00
	650		1966-75	650cc	71.00	1.60	2.72	AS13103	2 Cyl.	STD
						1.60	2.74	AS13103010		1.00
						3.18	2.74			
								AS13104		STD
								AS13104010		0.50
								AS13104020		2.00
	1296	4	1967-72	1300TC & Spitfire Mark III	73.66	1.60	3.20	AS13105	4 Cyl.	STD
	1296		1966-68	1300, 13/60 OHV		1.60	3.23	AS13105010		0.25
	1493		1973-80	Spitfire Mark IV		4.00	3.56	AS13105020		0.50
								AS13105030		0.75
								AS13105040		1.00
								AS13105050		1.50
								AS13106		STD
								AS13106010		0.50
								AS13106020		0.75
								AS13106030		1.00
	2498	6	1969-76	TR6	74.68	1.60	3.20	AS13107	6 Cyl.	STD
	2498		1968-69	TR250		1.60	3.23	AS13107010		0.50
						4.00	4.11			
								AS13108		STD
				TR7, T140	76.01	1.60	3.20	AS13109	2 Cyl.	STD
						1.60	3.23	AS13109010		0.50
						3.18	3.23	AS13109020		1.00
								AS13109030		1.50

										
TRIUMPH										
	2138	4	1962-69	TR4, TR4A	86.00	1.60	3.43	AS13110	4 Cyl.	STD
						1.60	3.45	AS13110010		1.00
						4.00	3.68			
								AS13111		STD
								AS13111010		1.00
	3522	8	1979-On	TR8	88.90	1.60	4.19	AS13112	8 Cyl.	STD
						1.60	4.22	AS13112010		0.50
						4.75	1.27	AS13112020		0.75
								AS13113		STD
								AS13113010		0.50
								AS13113020		0.75
	1998	4	1975-80	TR7	90.30	1.75	4.01	AS13114	4 Cyl.	STD
						1.75	4.04	AS13114010		0.50
						4.00	4.50			
UNIVERSAL										
	4			UJ Atomic 4	65.09	2.38	3.05	AS13201	4 Cyl.	STD
						2.38	3.30			
						4.00	1.85			
URAL										
				Tourist, Sportsman, Cruiser, Classic	78.00	1.50	3.35	AS13301	2 Cyl.	STD
						1.50	3.38	AS13301010		0.25
						4.00	3.30	AS13301020		0.50
								AS13301030		0.75
								AS13301040		1.00
UTIMOTOR										
				U1R6, U2R6, U23, U23R6, U100, U109, U200	57.15	2.38	2.67	AS13401	1 Cyl.	STD
						2.38	2.69			
						4.00	2.69			
VAUXHALL										
	1248		2004-10	Turbo Diesel Y13DT	69.60	2.00	3.05	AS13501	1 Cyl.	STD
						1.50	3.07	AS13501010	1 Cyl.	0.40
						2.00	2.90	AS13501020	1 Cyl.	0.60
Z12XE, X12XE	1199		1998-00	ASTRA, AGILA, CORSA	72.50	1.20	3.12	AS13502	1 Cyl.	STD
X10XE, Z10XE	973		1996-00	AGILA, CORSA		1.50	3.07	AS13502010		0.50
						2.00	2.92			
								AS13503		STD
								AS13503010		0.25
								AS13503020		0.50
	1870		1998-06	Diesel SOHC F8Q 600, 606	80.00	2.00	3.51	AS13504	1 Cyl.	STD
						2.00	3.53			
						3.00	3.68			
	1300	4	1970-On	Viva HC	80.96	2.00	3.58	AS13505	4 Cyl.	STD
						2.00	3.86	AS13505010		1.00
						4.75	1.27			
								AS13506		STD
								AS13506010		0.50
								AS13506020		0.75

										
VAUXHALL										
Z 19 DTH, Z 19 DTJ	1910		2004-11	CDTI DIESEL, ASTRA, SIGNUM, VECTRA, ZAFIRA,	82.00			AS13507		STD
	1995		1995-08	Turbo Diesel SOHC Y20DTH	84.00	1.75	3.66	AS13508	1 Cyl.	STD
			1997-08	2172CC Turbo Diesel SOHC X22DTH, Y22DTH, Y22DTR		1.75	3.68			
						3.00	3.68			
	1995		1998-06	Turbo Diesel SOHC X20DTL, Y20DTL	84.00	2.00	3.66	AS13509	1 Cyl.	STD
						1.75	3.68			
						3.00	3.68			
	1995		2006-On	Turbo Diesel M9R	84.00	2.50	3.51	AS13510	1 Cyl.	STD
						2.00	3.43	AS13510010		0.50
						2.00	2.87			
	1995		1995-05	Turbo Diesel SOHC X20DTH w/Keystone top grv.	84.00	2.50	3.66	AS13511	1 Cyl.	STD
						1.75	3.68			
						3.00	3.68			
97.5 cu. in.		4	1968-70	OHC	85.73	2.00	4.04	AS13512	4 Cyl.	STD
						2.00	4.06			
						4.75	4.39			
								AS13513		STD
	2188		2000-10	Turbo Diesel G9T 720, 722, 750	87.00	3.00	3.81	AS13514	1 Cyl.	STD
						1.75	3.84			
						2.50	3.33			
	2464		2003-06	Turbo Diesel G9U 630	89.00	3.00	3.86	AS13515	1 Cyl.	STD
						1.75	3.89			
						2.50	3.33			
25TDS (VM41B)	2499	4	1996-98	2.5L TDS Turbo Diesel Frontera	92.00	2.50	4.01	AS13516	1 Cyl.	STD
						2.00	4.04			
						4.00	4.24			
	2499		1989-97	Diesel 4JA1 Chrome Sleeves use 7384 only	93.00	2.00	4.06	AS13517	1 Cyl.	STD
						2.00	4.09			
						4.00	4.19			
								AS13518		STD
	2799		1998-01	Turbo Diesel S9W 700 S9W 702	94.40	3.00	4.06	AS13519	1 Cyl.	STD
						2.00	4.09			
						3.00	3.78			
	2799		1998-01	Turbo Diesel S9W 700 S9W 702	94.40	2.50	4.06	AS13520	1 Cyl.	STD
						2.00	4.09			
						2.50	3.33			

										
CC	CYL/ENG							PART#	CYL/SET	MM
VAUXHALL										
120.5 cu. in.	4	1970-71	OHC	95.25	2.00	4.47		AS13521	4 Cyl.	STD
					2.00	4.50		AS13521010		0.25
					4.75	4.88		AS13521020		0.50
								AS13521030		0.75
								AS13522		STD
VM										
HR92-1	598		DIESEL ENGINE	92.00	2.50	4.01		AS13601	1 Cyl.	STD
HR92-2	1196		DIESEL ENGINE		2.00	4.04				
3	1794		DIESEL ENGINE		4.00	4.24				
4	2392	4	DIESEL ENGINE							
5	2990	5	DIESEL ENGINE							
6	3588	6	DIESEL ENGINE							
VM392HT	1779		1.8L TURBO DIESEL							
VM392HT	1779		1.8L TURBO DIESEL							
VM492HT, VM81A	2393	4	2.4L TURBO DIESEL							
HR492HTI	2500	4	2.5L TURBO DIESEL							
				94.00	3.00	4.06		AS13602	1 Cyl.	STD
					2.00	4.09				
					4.00	4.19				
VOLKSWAGEN										
EA111	999	4	1996-On RSH, Lupo, Polo	67.10	1.20	2.92		AS13701	4 Cyl.	STD
					1.50	2.97		AS13701010		0.50
					2.00	3.18		AS13701020		1.00
	999	4	2000-On Fox, GOL, Paraty, Saveiro	67.10	1.00	2.44		AS13702	4 Cyl.	STD
					1.00	2.87		AS13702010		0.50
					1.50	2.34				
HA	895	4	1975-82 0.9L Polo, Derby	69.50	1.75	3.25		AS13703	4 Cyl.	STD
FA, FJ, GG	1093	4	1974-84 1.1L Golf, Jetta, Scirocco		2.50	3.28				
HB, HC, HD	1093	4	1975-90 1.1L Derby, Golf, Polo		4.00	3.81				
HA	895	4	1975-82 0.9L Polo, Derby	69.50	1.75	3.25		AS13704	4 Cyl.	STD
FA, FJ, GG	1093	4	1974-84 1.1L Golf, Jetta, Scirocco		2.00	3.28		AS13704010		0.50
HB, HC, HD	1093	4	1975-90 1.1L Derby, Golf, Polo		4.00	3.81		AS13704020		1.00
								AS13705		STD
								AS13705010		0.25
								AS13705020		0.50
								AS13705030		0.75
								AS13705040		1.00
	1000	4	Gol Fits Brazilian Mahle Piston	70.30	1.50	3.25		AS13706	4 Cyl.	STD
					1.50	3.28				
					3.00	2.92				
EA211, CHYA, CHYB				74.50	1.00	2.84		AS13707	3 Cyl.	STD
					1.20	2.97				
					2.00	2.92				
AAU	1043	4	1990-On	75.00	1.50	2.95		AS13708	4 Cyl.	STD
3F	1272		1989-On		1.50	3.23				
ABD	1391		1991-On Golf, CL/GI, Polo, CL/GT, Vento CL/GL		2.50	2.79				
								AS13709		STD
								AS13709010		0.25
								AS13709020		0.50
								AS13709030		0.75
								AS13709040		1.00

										
VOLKSWAGEN										
AAK, ACM, GL, GN, HZ,	1043	4	1981-94	1.0L Derby, Golf, Polo	75.00	1.75	3.45	AS13710	4 Cyl.	STD
2C, 2G, AAV, GK, HK, HW,	1272	4	1982-95	1.3L Derby, Golf, Jetta, Pollo		2.00	3.48	AS13710010		0.50
MH, NU, NZ, PY						3.00	3.18	AS13710020		1.00
056	1471	4	1973-76	1.5L Dasher, Rabbit, Scirocco	76.50	2.00	3.45	AS13711	4 Cyl.	STD
	1600		1974-76	Rabbit, Scirocco, PS, 9, 7:1		2.50	3.48	AS13711010		0.50
				VW-Passat, LS, TS Passat-Variant-S, DTO		4.00	3.94	AS13711020		0.75
				USA-Ausführung, Mit Verdichtung 8, 1:1				AS13711030		1.00
								AS13712		STD
								AS13712010		0.25
								AS13712020		0.50
								AS13712030		0.75
								AS13712040		1.00
TR6	2383	6	1978-80	Diesel	76.50	1.75	3.45	AS13713	6 Cyl.	STD
						2.00	3.48	AS13713010		0.25
						3.00	3.68	AS13713020		0.50
								AS13713030		0.75
								AS13713040		1.00
CK, 068	1417	4	1976-80	1.5L DIESEL Golf, Jetta, Passat	76.50	1.75	3.45	AS13714	4 Cyl.	STD
068, 1V, CR, CS, JK, JP, ME	1588	4	1979-93	1.6L DIESEL Golf, Jetta, Passat, Santana,		2.00	3.48	AS13714010		0.25
068		4	1980-84	1.6L DIESEL PICK UP, Vanagon		3.00	3.56	AS13714020		0.50
				INCLUDES TURBO				AS13714030		0.75
								AS13714040		1.00
								AS13715	4 Cyl.	STD
								AS13715010		0.25
								AS13715020		0.50
								AS13715030		0.75
								AS13715040		1.00
CN	1986	5	1978-90	2.0L DIESEL	76.50	1.75	3.45	AS13716	5 Cyl.	STD
						2.00	3.48	AS13716010		0.25
						3.00	3.68	AS13716020		0.50
								AS13716030		0.75
								AS13716040		1.00
		4	1976-On	Dasher D, Golf D, Jetta D, Passat D, Santana D, LT28-55D6, 1.5L, 1.6L	76.50	1.75	3.07	AS13717	4 Cyl.	STD
				Fits Brazilian Mahle Piston		2.00	3.23			
						3.00	3.56	AS13717010		0.50
								AS13718		STD
								AS13718010		1.00
	1588	4	1993-On	Golf, CL/GL/L	76.50	1.50	3.45	AS13719	4 Cyl.	STD
						1.50	3.23	AS13719010		0.50
						2.50	2.79	AS13719020		0.75
								AS13719030		1.00
AEX, AKV, APQ	1390	4	1995-On		76.50	1.20	2.92	AS13720	4 Cyl.	STD
AEA, AEE, AUS, AZD	1595		1995-01	Golf		1.50	3.23	AS13720010		0.25
						2.50	2.79	AS13720020		0.50
								AS13720030		0.75
AGY SA	1423	4	1996-On	Polo	76.50	1.20	3.33	AS13721	4 Cyl.	STD
						1.50	3.23	AS13721010		0.50
						2.50	2.79	AS13721020		1.00
CTHE, CTHA, CNWB, CNWA, 1396		4	2003-12	1.4L TSI TURBO & SUPERCHARGED	76.50	1.20	3.33	AS13722	4 Cyl.	STD
CAVE, CAVD,										
CAVC, CAVB, CAVA, BWK, 1396		4	2003-12	Golf, Jetta, Touran, Tiguan,		1.50	3.48	AS13722010		0.50
BMV, BLG				Sharan, Beetle, Eos, Scirocco, Polo		2.00	2.92			

										
VOLKSWAGEN										
								AS13723	STD	
								AS13723010	0.25	
								AS13723020	0.50	
BCA, BKR, BKY, BUD, CAXA, CDDA, CGGA, CGGB, CPLA, CMSB BLF, BLP	1390	4	2007-13	1.4L TSI Eos, Golf, Jetta, Passat, Touran	76.50	1.20	3.33	AS13724	4 Cyl.	STD
								AS13724010	0.50	
								AS13725	STD	
								AS13725010	0.25	
								AS13725020	0.50	
	1598	4	2003-11	1.6L FSI Eos, Golf, Jetta, Passat, Touran		2.00	2.92	AS13726	1 Cyl.	STD
	1588		1980-96	Turbo Diesel 1V, CY, JR, JX, MF, RA, SB .	76.50	1.75	3.35			
	2383		1982-95	Turbo Diesel 1G, ACL, DV		2.00	3.38			
	2383		1979-93	Turbo Diesel D-24		3.00	3.68			
		4		Gol, Parati, AE Voyage, Saveiro	76.96	1.50	3.30	AS13727	4 Cyl.	STD
				Fits Brazilian Mahle Piston		1.50	3.33	AS13727010	1.00	
						3.00	3.30			
								AS13728	STD	
								AS13728010	0.50	
		4	1967-75	Type I, Type II, 1.2L, 1.3L	77.00	2.00	3.30	AS13729	4 Cyl.	STD
				Fits Brazilian Mahle Piston		2.00	3.33	AS13729010	0.50	
						4.00	3.43			
		4		GOL, AE1600	77.00	1.50	3.30	AS13730	4 Cyl.	STD
				Fits Brazilian Mahle Piston		1.50	3.68			
						2.00	2.92			
								AS13731	STD	
								AS13731010	0.50	
								AS13731020	1.00	
F	1285	4	1965-74	11C, 30CV, 1200 36-40 H.P.	77.00	2.50	3.30	AS13732	4 Cyl.	STD
	1192		1954-65	1200 36-40 H.P.		2.50	3.33			
						4.00	3.94			
	1192	4	1954-65	2-3/32" Comp. Grooves	77.00	2.38	3.66	AS13733	4 Cyl.	STD
						2.38	3.68			
						4.75	1.27			
AB, D, E, F (1200 and 1300)	1285	4	1964-81	Beetle, Karmann (1200 and 1300)	77.00	2.00	3.66	AS13734	4 Cyl.	STD
						2.00	3.38			
						4.00	4.11			
								AS13735	STD	
								AS13735010	0.50	
								AS13735020	1.00	
AFB, AKE, AKN, AYM, BAU	2496		1997-05	Turbo Diesel DOHC TDi	78.30	1.75	3.40	AS13736	1 Cyl.	STD
						2.00	3.43			
						3.00	3.68			

										
VOLKSWAGEN										
049	1588		1974-77	Dasher, So, Rabbit, So	79.50	2.00	3.40	AS13737	4 Cyl.	STD
	1457	4	1973-76	1.5L		2.50	3.43	AS13737010		0.50
						5.00	1.27	AS13737020		1.00
								AS13738		STD
								AS13738010		0.50
049	1457	4	1976-80	Rabbit	79.50	1.75	3.15	AS13739	4 Cyl.	STD
049	1588		1980	Rabbit		2.00	3.43	AS13739010		0.25
049	1588		1975-83	So		4.00	3.81	AS13739020		0.50
049	1588		1980	Pickup				AS13739030		0.75
049	1588		1976-84	Dasher				AS13739040		1.00
049	1588		1980	Jetta				AS13739050		1.50
049	1716		1981-84	Rabbit				AS13740		STD
049	1716		1981-84	Jetta				AS13740010		0.25
049	1716		1982-83	Quantum				AS13740020		0.50
049	1716		1981-83	Pickup				AS13740030		0.75
049	1716		1980-94	So				AS13740040		1.00
								AS13740050		1.50
								AS13741		STD
								AS13741010		0.25
								AS13741020		0.50
								AS13741030		0.75
								AS13741040		1.00
								AS13741050		1.50
		4	1975-On	Dasher, Golf, Passat, So Fits	79.50	2.00	3.40	AS13742	4 Cyl.	STD
				Brazilian Mahle Piston						
						2.50	3.43	AS13742010		0.50
						5.00	3.30			
	1500	4	1977-84	Dasher, Golf, Jetta, Passat, Santana, So 1.5L	79.50	1.75	3.15	AS13743	4 Cyl.	STD
				1.6L Fits Brazilian Mahle Piston		2.00	3.43	AS13743010		0.50
	1600					4.00	3.30	AS13743020		1.00
								AS13744		STD
								AS13744010		0.50
								AS13744020		1.00
	1716		1991-On	Caravell, Golf D, Passat D	79.50	1.75	3.15	AS13745	1 Cyl.	STD
	1896		1991-On	1Z, Caravelle, Golf D, Passat D incl. Turbo Diesel		2.00	3.43	AS13745010		0.50
	2370		1991-On	Caravelle, Golf D, Passat D incl. Turbo Diesel		3.00	3.30			
								AS13746		STD
								AS13746010		0.25
								AS13746020		0.50
								AS13746030		0.75
								AS13746040		1.00
KY	1751		1985-92	DIESEL ENGINE TRANSPORTER BUS	79.50	1.75	3.38	AS13747	1 Cyl.	STD
1Y, 1X, ABL, AAZ, ADE, ADG, AEF,	1896		1986-03	GOLF, PASSAT, POLO, STATIONARY ENG., TRANSPORTER, VENTO		2.00	3.53	AS13747010		0.25
AJA, AAB	2370		1990-03	TRANSPORTER		3.00	3.68	AS13747020		0.50
								AS13747030		1.00
1Y, 1Z, AAZ, AFN, AHF, AHH, AHU, ALH, AGR, AJM, ASV, ASZ, ATD, ATJ, AVB, AVF, AWX, AXR, BKC	1896		1991-05	AEF, Diesel, Polo w/2 pc oil ring	79.50	1.75	3.38	AS13748	1 Cyl.	STD
	2370		1997-03	AJA Diesel w/2pc oil ring		2.00	3.53	AS13748010		0.25
						3.00	3.68	AS13748020		0.50
								AS13748030		0.75

										
VOLKSWAGEN										
1588	4	1976-77	Dasher, Rabbit, Scirocco High Performance Piston	79.50	1.75	3.40		AS13749	4 Cyl.	STD
					2.00	3.43		AS13749010		0.50
					5.00	1.27		AS13749020		1.00
								AS13750		STD
								AS13750010		0.50
								AS13750020		1.00
1588	4	1977-80	Rabbit, So S/N 057732-on	79.50	1.75	3.40		AS13751	4 Cyl.	STD
1588		1976-80	Dasher		2.50	3.43		AS13751010		0.50
					5.00	4.39		AS13751020		0.75
								AS13751030		1.00
								AS13752		STD
								AS13752010		0.50
								AS13752020		1.00
2144	5	1978-84	4000, 5000	79.50	1.75	3.15		AS13753	5 Cyl.	STD
					2.00	3.43		AS13753010		0.50
					4.00	3.81				
1781	4	1983-93	Fox, Golf, GTI, Rabbit, So Cabriolet 2H OHC	81.00	1.50	3.18		AS13754	4 Cyl.	STD
					1.75	3.61		AS13754010		0.25
					3.00	3.18		AS13754020		0.50
								AS13754030		0.75
								AS13754040		1.00
								AS13755		STD
								AS13755010		0.25
								AS13755020		0.50
								AS13755030		0.75
								AS13755040		1.00
								AS13756		STD
								AS13756010		0.25
								AS13756020		0.50
								AS13756030		0.75
								AS13756040		1.00
2226	5	1983-96	Audi	81.00	1.50	3.58		AS13757	5 Cyl.	STD
		1993-02			1.75	3.61		AS13757010		0.50
					3.00	3.58		AS13757020		0.75
1595	4		Golf, New Beetle	81.00	1.00	3.33		AS13758	4 Cyl.	STD
					1.20	3.15		AS13758010		0.50
					2.00	2.92		AS13758020		1.00
1588	4		Passat	81.00	1.50	3.18		AS13759	4 Cyl.	STD
					1.50	3.23		AS13759010		0.50
					3.00	3.18		AS13759020		0.75
								AS13759030		1.00
								AS13760		STD
								AS13760010		0.25
								AS13760020		0.50
								AS13760030		0.75
								AS13760040		1.00
								AS13761		STD
								AS13761010		0.25
								AS13761020		0.50
								AS13761030		0.75
	4		Passat, Santana, So, 1.6, 1.8, 2.0L Fits Brazilian Mahle Piston	81.00	1.50	3.18		AS13762	4 Cyl.	STD
					1.75	3.61		AS13762010		0.25
					3.00	3.18		AS13762020		0.50
								AS13762030		1.00
								AS13763		STD
								AS13763010		0.50
								AS13763020		1.00

										
VOLKSWAGEN										
	1968	4		AAC, 75VC, 90VC Golf II	81.00	1.75	3.58	AS13764	4 Cyl.	STD
						2.00	3.61	AS13764010		0.50
						3.00	3.18			
	2792	6	1990-05	Vin: AAA,ABA,AES,ATQ,BDF VR6 Engs., Eurovan, Golf GTI Jetta GLX, Passet, Vento	81.00	1.50	3.18	AS13765	6 Cyl.	STD
						1.75	3.61			
						3.00	3.18			
	2792		1990-05					AS13766		STD
								AS13766010		0.50
								AS13766020		0.75
								AS13766030		1.00
	2459	5	1991-96	Vin: ACU, Eurovan	81.00	1.75	3.58	AS13767	5 Cyl.	STD
						2.00	3.61	AS13767010		0.50
						3.00	3.18	AS13767020		0.75
								AS13767030		1.00
								AS13768		STD
								AS13768010		0.50
								AS13768020		0.75
								AS13768030		1.00
ADR, AEB, AFY, AGN, AJH, ANB, APH, APT, APU, AQA, ARG, ARX	1781	4	1997-10	1.8L Turbo Beetle, Bora, Golf	81.00	1.50	3.18	AS13769	4 Cyl.	STD
ARZ, AUM, AUQ, AVC, AWC, AWD				Passat, Sharan		1.75	3.61	AS13769010		0.50
AWM, AWT						1.75	2.92			
								AS13770		STD
								AS13770010		0.50
								AS13770020		0.75
								AS13770030		1.00
	2400	6		5 Valve V-6	81.00	1.50	3.18	AS13771	6 Cyl.	STD
						1.50	3.35			
						2.00	2.87			
	1600	4	1987-On	Made in Brazil	81.00	1.20	3.33	AS13772	4 Cyl.	STD
	1800		1987-On	Made in Brazil		1.50	3.23	AS13772010		0.25
						2.00	3.18	AS13772020		0.50
								AS13772030		0.75
								AS13772040		1.00
ACV, AGX, AHD, AJT, ANF, ANJ AXL, BBF, BCT, BTW	2461		1995-06	TDi Diesel	81.00	2.50	3.48	AS13773	1 Cyl.	STD
			1996-On			2.00	3.56			
						3.00	3.68			
AAC	1968		1990-03	Diesel AAC Transporter ,	81.00	1.75	3.56	AS13774	1 Cyl.	STD
AAF ACU AEU	2459		1990-03	Diesel SOHC Transporter		2.00	3.58	AS13774010		0.50
						3.00	3.68			
AZV, BDK, BMM, BNA	1968		2003-07	Turbo Diesel SHOC TDi., Golf,	81.00	1.75	3.56	AS13775	1 Cyl.	STD
				Jetta, Passat		2.00	3.56	AS13775010		0.50
						3.00	3.68			
AAF, ACU, AET, AEV	2459		1990-03	Diesel SOHC Transporter	81.00	1.75	3.56	AS13776	1 Cyl.	STD
						2.00	3.56			
						3.00	3.68			
AAF, ACU, AET, AEV	2459		1990-03	Diesel SOHC Transporter	81.00	1.75	3.56	AS13777	1 Cyl.	STD
						2.00	3.56			
						3.00	3.68			
AXD, AXE, BAC, BCT, BCU, BCV, BJL BJM, BLJ, BLK, CECA, CECB	2461		2003-11	Turbo Diesel	81.00	2.50	3.56	AS13778	1 Cyl.	STD
						2.00	3.56	AS13778010		0.50
						3.00	3.68			

										
VOLKSWAGEN										
CRBC, CRBL, CRVA	1968		2012-on	DIESEL TDI ,GOLF VII	81.00	1.75	3.56	AS13779	1 Cyl.	STD
						2.00	3.56			
						2.00	2.87			
	1605	4	1970-On	K70, 75CH TC8	82.00	1.75	3.73	AS13780	4 Cyl.	STD
						2.00	3.89			
						4.00	4.24			
CBUA, CUTA, BGP, BGQ, BTK, CBTA	2480	5	2005-14	DOHC 20V , Beetle, Bora	82.50	1.20	3.33	AS13781	5 Cyl.	STD
						1.50	3.25	AS13781010		0.50
						2.00	3.30			
ABA	1984	4	1988-10	GT1, Gulf, Passat, Quantum, Santana, Voyage	82.50	1.20	3.33	AS13782	4 Cyl.	STD
	2000					1.50	3.25	AS13782010		0.25
						2.00	3.30	AS13782020		0.50
								AS13782030		0.75
								AS13782040		1.00
	1857		1986-88	Passat	82.50	1.50	3.25	AS13783	1 Cyl.	STD
						1.75	3.61	AS13783010		0.25
						3.00	2.79	AS13783020		0.50
								AS13783030		1.00
CDA VAG	1798	4		DOHC Turbo L4	82.50	1.00	3.33	AS13784	4 Cyl.	STD
						1.20	3.48	AS13784010		0.50
						1.50	2.34			
CDA, CDAB, CJS, CJSB, 1798 CJS		4	2005-15	TSI	82.50	4.75	3.12	AS13785	4 Cyl.	STD
CAWA, CAWB, CBFA, CCT, CCZA, CCZB, CCZC, CCZD, CFPA, CHHA, CHHB, CJK, CJKB, CJXB, CJXC, CJXE, CPLA, CPPA	2480		2005-15	TSI		4.75	3.48			
CCCA			2005-15	TSI		8.00	2.67			
		4		Corrado, Passat, Vento, Brazilian Mahle Piston	82.50	1.50	3.25	AS13786	4 Cyl.	STD
						1.50	3.25	AS13786010		0.50
						2.00	3.30	AS13786020		1.00
								AS13787		STD
								AS13787010		0.50
								AS13787020		1.00
AAY	2496	5		Caravelle	82.50	1.50	3.25	AS13788	5 Cyl.	STD
						1.50	3.25			
						2.00	3.30			
								AS13789		STD
								AS13789010		0.50
								AS13789020		1.00
	1493	4	1965-69	1500 50-53 H.P.	83.00	2.00	3.53	AS13790	4 Cyl.	STD
						2.00	3.56	AS13790010		1.00
						4.00	4.24	AS13790020		1.50
		4		Big Bore German & Japanese	85.00	2.00	3.81	AS13791	4 Cyl.	STD
						2.00	3.84	AS13791010		0.50
						2.00	4.04	AS13791020		1.00
						5.00	4.11			
								AS13792	4 Cyl.	STD
								AS13792010		0.50
								AS13792020		0.75
								AS13792030		1.00

										
VOLKSWAGEN										
	1600	4	1984-On	Made in Brazil, Gas/Alch it Brazilian Mahle Piston	85.50	1.50	3.43	AS13793	4 Cyl.	STD
						1.75	3.45	AS13793010		0.25
						4.00	3.43	AS13793020		0.50
								AS13793030		1.00
								AS13794		STD
								AS13794010		0.25
								AS13794020		0.50
								AS13794030		1.00
	1588	4	1965-84	1600, 57, 60, 65 H.P. 65CV Fit Brazilian Mahle Piston	85.50	2.00	3.43	AS13795	4 Cyl.	STD
						2.00	3.43	AS13795010		0.50
						5.00	3.94	AS13795020		1.00
								AS13796		STD
								AS13796010		0.50
								AS13796020		1.00
	1600	4	1979-83		85.50	1.75	4.04	AS13797	4 Cyl.	STD
						2.00	4.06	AS13797010		0.25
						5.00	4.50	AS13797020		0.50
								AS13797030		0.75
								AS13797040		1.00
								AS13797050		1.50
								AS13798		STD
								AS13798010		0.25
								AS13798020		0.50
								AS13798030		0.75
								AS13798040		1.00
	1588	4	1966-79	1600, 57, 60, 65 H.P. 124A, 126A	85.50	2.00	4.04	AS13799	4 Cyl.	STD
						2.00	4.06	AS13799010		0.25
						5.00	3.94	AS13799020		0.50
								AS13799030		0.75
								AS13799040		1.00
								AS13799050		1.50
								AS137100		STD
								AS137100010		0.25
								AS137100020		0.50
								AS137100030		0.75
								AS137100040		1.00
								AS137100050		1.50
	1493	4		Engs. 1500, 1600 Series	87.00	2.00	3.61	AS137101	4 Cyl.	STD
	1584					2.00	3.94			
						5.00	4.11			
								AS137102		STD
								AS137102010		0.50
	1493	4		Engs. 1500, 1600 Series Overbore	87.00	1.50	3.61	AS137103	4 Cyl.	STD
	1584					1.50	3.94			
						5.00	4.11			
	1679	4	1971-75	85 H.P. 411, 1700	90.00	2.00	3.99	AS137104	4 Cyl.	STD
						2.00	4.01			
						5.00	4.24			
	1835	4		1600 Big Bore Cima(Late)	92.00	1.50	4.06	AS137105	4 Cyl.	STD
						2.00	4.09			
						4.00	4.24			

										
VOLKSWAGEN										
	1679	4		Repl. Kit Overbore	92.00	2.00	4.32	AS137106	4 Cyl.	STD
			1978-85			2.00	4.09	AS137106010		0.25
			1976-78			4.00	4.24	AS137106020		0.50
			1976-84					AS137106030		0.75
								AS137106040		1.00
								AS137107		STD
								AS137107010		0.25
								AS137107020		0.50
								AS137107030		0.75
								AS137107040		1.00
								AS137107050		1.50
								AS137108		STD
								AS137108010		0.50
								AS137108020		0.75
								AS137108030		1.00
	2446		1989-97	Diesel 2-L	92.00	2.00	3.58	AS137109	1 Cyl.	STD
						2.00	4.04			
						4.00	4.24			
	1795	4	1974-75	Buss Station Wagen Model 412	93.00	2.00	4.09	AS137110	4 Cyl.	STD
						2.00	4.11	AS137110010		0.50
						4.00	3.94			
								AS137111		STD
								AS137111010		0.50
								AS137111020		1.00
	1915	4		1600 Big Bore(Late)	94.00	1.50	4.11	AS137112	4 Cyl.	STD
						2.00	4.14			
						4.00	2.92			
	2109	4	1986-On	Vanagon MV	94.00	1.75	4.42	AS137113	4 Cyl.	STD
						2.00	4.45	AS137113010		0.25
						3.50	3.68	AS137113020		0.50
								AS137113030		0.75
								AS137113040		1.00
								AS137113050		1.50
								AS137114		STD
								AS137114010		0.50
								AS137114020		0.75
								AS137114030		1.00
								AS137114040		1.50
	1971	4	1976-84	2 Series, 211, 221, Vanagon	94.00	1.75	4.42	AS137115	4 Cyl.	STD
						2.00	4.14	AS137115010		0.25
						4.00	4.50	AS137115020		0.50
								AS137115030		0.75
								AS137115040		1.00
								AS137115050		1.50
								AS137116		STD
								AS137116010		0.25
								AS137116020		0.50
								AS137116030		0.75
								AS137116040		1.00
								AS137116050		1.50
VOLVO										
D 4162 T	1560	4	2010-12	C30, S40, S60,	75.00	2.50	3.25	AS13801	4 Cyl.	STD
						1.75	3.33	AS13801010		0.25
						2.50	3.10	AS13801020		0.50
B5234FT		5		850	81.00	1.20	3.33	AS13802	5 Cyl.	STD
						1.75	3.61	AS13802010		0.50
						3.00	3.18	AS13802020		0.75

										
VOLVO										
	4		460		82.70	1.50	3.58	AS13803	4 Cyl.	STD
						1.75	3.91	AS13803010		0.50
						3.00	3.18			
								AS13804		STD
								AS13804010		0.25
								AS13804020		0.50
								AS13804030		0.75
								AS13804040		1.00
								AS13805	1 Cyl.	STD
B4184S	1783		1995-2013	DOHC S40, V40	83.00	1.20	3.12			
B4204T3	1948		2000-04	DOHC S40 V40		1.50	3.25			
						2.50	2.92			
B5254	2435		1996-99	850GLE S70 V70	83.00	1.20	3.12	AS13806	1 Cyl.	STD
	2917		1998-99	968 S90 V90		1.75	3.61	AS13806010		0.50
						3.00	2.79			
B18A/B, B18D	1780	4	1962-68	142, 144, 145, 122S, 544, P1800	84.14	2.00	3.99	AS13807	4 Cyl.	STD
						2.00	4.01			
						4.75	1.27			
B27F	2673	6	1975-1979	262, 264, 265, GL, GLE	88.00	1.50	3.61	AS13808	6 Cyl.	STD
						2.00	3.63	AS13808010		0.75
						4.00	4.24			
								AS13809		STD
								AS13809010		0.75
B19A, B20A/F, B20F	1986	4	1980	343, 345, 142, 144, 145, 242, 244, 245, DL, GL	88.90	1.75	4.19	AS13810	4 Cyl.	STD
						2.00	4.22	AS13810010		0.25
						4.00	4.62	AS13810020		0.50
								AS13810030		0.75
B19E, B30		6	1974-On		88.90	1.75	4.19	AS13811	6 Cyl.	STD
						2.00	4.22	AS13811010		0.25
						4.00	4.62	AS13811020		0.50
								AS13811030		0.75
B20A	1986	4	1969-70	P1800	88.90	2.00	4.19	AS13812	4 Cyl.	STD
B20A/B/F	1986		1969-74	142, 144, 145		2.00	4.22	AS13812010		0.75
B20E	1986		1971	142		4.75	4.62			
B20E	1986		1971	P1800E						
B20F	1986		1972-74	142, 144, 145				AS13813		STD
B20F	1986		1972-73	P1800ES				AS13813010		0.75
B30A	2978	6	1969-72	164E	88.90	2.00	4.19	AS13814	6 Cyl.	STD
B30E	2978		1972	164E		2.00	4.22	AS13814010		0.75
B30F	2978		1973-75	164E		4.75	1.27			
B80F	2849	6	1981-91	760 GLE	91.00	1.50	4.04	AS13815	6 Cyl.	STD
B28F	2849		1980-82	262, 264, 265, GL, GLE		2.00	3.68	AS13815010		0.50
B28F	2849		1983-86	760 GLE		4.00	4.62	AS13815020		0.75
B280F	2849		1987-91	740 GL, GLE				AS13816		STD
								AS13816010		0.50
								AS13816020		0.75

										
VOLVO										
B21	2127	4	1979-86		92.00	1.75	4.32	AS13817	4 Cyl.	STD
						2.00	4.09	AS13817010		0.25
						4.00	4.24	AS13817020		0.50
								AS13817030		0.75
								AS13817040		1.00
								AS13818		STD
								AS13818010		0.25
								AS13818020		0.50
								AS13818030		0.75
								AS13818040		1.00
	6		FC		92.08	3.18	3.84	AS13819	6 Cyl.	STD
						3.18	3.86			
						3.18	3.86			
						4.75	1.27			
D47, D47A	4704	6		Deep Top Groove , Diesel Truck	95.25	2.38	4.47	AS13820	6 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	4.45			
						4.75	4.19			
B230F/FT	2316	4	1982-92	244, 245, DL, GL, 740 GL, GLE, 760 GLE, 760 GLE	96.00	1.75	4.19	AS13821	4 Cyl.	STD
						1.75	4.22	AS13821010		0.50
						3.50	4.39	AS13821020		0.75
								AS13822		STD
								AS13822010		0.50
								AS13822020		0.75
B23E/F	2316	4	1981-1984	242, 244, 245, DL, GL	96.00	1.75	4.19	AS13823	4 Cyl.	STD
						2.00	4.22	AS13823010		0.50
						4.00	4.39	AS13823020		0.75
								AS13824		STD
								AS13824010		0.50
								AS13824020		0.75
	6		D60		98.43	2.38	4.62	AS13825	6 Cyl.	STD
						3.18	4.32			
						4.75	4.88			
D70A/B	6725	6	1965-1971	3500, 3700, 5350VHK116, VHK118	104.78	2.38	4.93	AS13826	6 Cyl.	STD
						3.18	4.52	AS13826010		0.50
						3.18	4.52			
						4.75	5.00			
						4.75	4.52			
WAUKESHA										
	4		FCS, FS, FSJ		69.85	3.18	3.25	AS13901	4 Cyl.	STD
						3.18	3.23			
						4.75	3.81			
BD1D, BD1F, FCL, FL, FL6D, FL18, FLJ, FLT, 6TS		4			76.20	3.18	3.45	AS13902	4 Cyl.	STD
						3.18	3.48			
						4.75	1.27			
								AS13903		STD
								AS13903010		1.50

										
WAUKESHA										
FC25E		4			82.55	2.38	3.89	AS13904	4 Cyl.	STD
						2.38	3.91	AS13904010		0.50
						2.38	3.91	AS13904020		1.00
						4.75	4.39			
								AS13905		STD
FC, FC129J, FC132, FC161A, FK, FKJ		4			82.55	3.18	3.89	AS13906	4 Cyl.	STD
						3.18	3.78	AS13906010		0.50
						4.75	1.27	AS13906020		1.50
								AS13907		STD
FC		4		Zollner 175 W. Piston	82.55	3.18	3.89	AS13908	4 Cyl.	STD
						3.18	3.91	AS13908010		0.50
						3.18	3.78	AS13908020		1.50
						4.75	1.27			
								AS13909		STD
6-90, 6BA		6			85.73	3.18	4.04	AS13910	6 Cyl.	STD
						3.18	3.89			
						3.18	3.89			
						4.75	1.27			
6BL, 6XL, 185GL 6BL, 6XL		6			88.90	3.18	3.96	AS13911	6 Cyl.	STD
						3.18	3.66			
						3.18	3.66			
						4.75	4.24			
180GL, 180GLB		4			88.90	3.18	3.96	AS13912	4 Cyl.	STD
						3.18	3.66			
						3.18	3.66			
						6.00	4.62			
190GS		6			88.90	3.18	3.96	AS13913	6 Cyl.	STD
						3.18	3.66			
						3.18	3.66			
						6.00	4.62			
4-55, XAH		4			92.08	3.18	3.84	AS13914	4 Cyl.	STD
						3.18	3.86			
						3.18	3.86			
						4.75	1.27			
4-155				Gas	92.08	2.38	4.06	AS13915	2 Cyl.	STD
						2.38	4.09			
						4.75	2.39			

										
WAUKESHA										
180GLB	4			Gas Increase Bore Assembly #SL1982	92.08	2.38	4.06	AS13916	4 Cyl.	STD
D155G						2.38	4.09			
180DKB						2.38	4.09			
						4.75	4.62			
								AS13917	4 Cyl.	STD
180GKB	4				92.08	2.38	4.06	AS13918	4 Cyl.	STD
						2.38	4.09			
						2.38	4.09			
						4.75	1.27			
185GLB	6			Gas Increase Bore Assembly #SL1982	92.08	2.38	4.32	AS13919	6 Cyl.	STD
						2.38	4.09			
						2.38	4.09			
						4.75	4.34			
VRG265	6				95.25	2.38	4.47	AS13920	6 Cyl.	STD
						2.38	4.50	AS13920010		0.75
						4.75	1.27			
								AS13921		STD
130GS, XAKH	4				95.25	3.18	4.17	AS13922	4 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						6.35	4.85			
6BK, 6BM, 6BKH, 6MS, 6XK, 190GL, 190GLB	6			4 Ring Piston	95.25	3.18	3.91	AS13923	6 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	4.45			
XAK, XAK21F, XAKH	4				95.25	3.18	4.17	AS13924	4 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	1.27			
180GL, 190DL, 190DLB, 190GL, 190KL, 190LB	6				95.25	3.18	4.17	AS13925	6 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						6.00	4.88			
F283DL	6				98.43	2.38	4.62	AS13926	6 Cyl.	STD
						2.38	3.99			
						2.38	3.99			
						4.75	4.45			
6BZ, 6BZU, 6ML, 6-110 195GL	6				101.60	3.18	4.39	AS13927	6 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						4.75	4.88			
F320G	6				104.78	2.38	4.93	AS13928	6 Cyl.	STD
						2.38	4.95			
						6.35	5.00			

										
WAUKESHA										
6A, 6AB, 6AL, 140GK, 140GKB, 140GKU	6			4 Ring * Piston	114.30	3.18	4.83	AS13929	6 Cyl.	STD
						3.18	4.85			
						3.18	4.85			
						4.75	5.08			
VIK, VIKa, VIKH, VIKU	4				114.30	4.75	4.83	AS13930	4 Cyl.	STD
						4.75	4.85			
						4.75	4.85			
						4.75	5.08			
								AS13931		STD
140GK, 140GKB, 140GKU, 140HK	6			5 Ring Piston	114.30	3.18	4.11	AS13932	6 Cyl.	STD
						3.18	4.85			
						3.18	4.85			
						4.75	5.08			
						4.75	4.85			
								AS13933		STD
WEST BEND										
		1956		5 1/2 H.P. 160501	50.80	1.60	2.39	AS14001	1 Cyl.	STD
		1960		6 H.P. 6801		1.60	2.41			
		1957-58		6 H.P. 6801, 6802, 160521, 160531		1.60	2.41			
WESTINGHOUSE										
				Single Stage 2 Cyl	52.39	3.18	2.44	AS14101	2 Cyl.	STD
				2U7 1/4 TU-FLO400 Set without Oil Rings		3.18	2.46	AS14101010		0.25
						3.18	2.46	AS14101020		0.50
						3.18	2.46	AS14101030		0.75
				E	63.50	3.18	3.20	AS14102	2 Cyl.	STD
						3.18	3.23	AS14102010		0.25
						3.18	3.23	AS14102020		0.50
						3.18	3.23	AS14102030		0.75
						3.18	3.23			
WHITE										
A7, A8, B8, B10, B12	4			134 cu. in.	79.38	2.38	3.76	AS14201	4 Cyl.	STD
						2.38	3.78	AS14201010		0.50
						4.75	1.27	AS14201020		0.75
								AS14201030		1.00
								AS14201040		1.50
								AS14201050		2.00
								AS14202		STD
								AS14202010		0.50
								AS14202020		0.75
								AS14202030		1.00
								AS14202040		1.50
	6			205	82.55	3.18	3.89	AS14203	6 Cyl.	STD
						3.18	3.78	AS14203010		0.50
						3.18	3.78	AS14203020		1.50
						4.75	1.27			
								AS14204		STD

										
WHITE										
	6			221	85.73	3.18	4.04	AS14205	6 Cyl.	STD
						3.18	3.89			
						3.18	3.89			
						4.75	1.27			
	6			2A, 2AB, 2AC	88.90	3.18	3.96	AS14206	6 Cyl.	STD
						3.18	3.66			
						3.18	3.66			
						4.75	4.24			
4A, 4AB, 4AC, 4AD	6				95.25	3.18	3.91	AS14207	6 Cyl.	STD
						3.18	3.94			
						3.18	3.94			
						4.75	4.45			
	6			33A	101.60	3.18	4.39	AS14208	6 Cyl.	STD
						3.18	4.11			
						3.18	4.11			
						4.75	4.88			
WISCONSIN										
VD4, VD41	4				69.85	3.18	3.25	AS14301	4 Cyl.	STD
						3.18	3.23			
						4.75	3.81			
AE, AEH, AEHS, AEN, AEND, AENL, AENS, AES AENLD, TE, TED					76.20	2.38	3.45	AS14302	1 Cyl.	STD
						2.38	3.48			
						2.38	3.48			
						4.75	1.27			
AE				AE Air Cooled	76.20	3.18	3.45	AS14303	1 Cyl.	STD
						3.18	3.48			
						3.18	3.48			
						4.75	1.27			
VD4D, VF4, VF4D, VF41, VH4, VH4D, VH4DM	4				82.55	2.38	3.89	AS14304	4 Cyl.	STD
						2.38	3.91	AS14304010		0.50
						2.38	3.91	AS14304020		1.00
						4.75	4.39			
								AS14305		STD
				TJD	82.55	2.00	3.89	AS14306	2 Cyl.	STD
						2.00	3.91	AS14306010		0.25
						4.75	1.27			
				TF, TFD, TH, THD, THDM, TJD	82.55	2.38	3.89	AS14307	2 Cyl.	STD
						2.38	3.91	AS14307010		0.50
						2.38	3.91	AS14307020		1.00
						4.75	4.39	AS14307030		1.50
								AS14308		STD
W4-1770 Gas	1765	4		LPG & NG	82.55	2.00	3.89	AS14309	4 Cyl.	STD
						2.00	3.91	AS14309010		0.25
						4.75	1.27	AS14309020		1.50
								AS14310		STD

										
WISCONSIN										
W4-1770				HV4D, TFD, TJD, VF4, VF4D, VH4D	82.55	2.00	3.89	AS14311	2 Cyl.	STD
						2.00	3.91	AS14311010		0.25
						2.00	3.91			
						4.75	4.39			
								AS14312		STD
								AS14312010		0.25
				VH4D 3 Ring Piston	82.55	2.38	3.89	AS14313	2 Cyl.	STD
						2.38	3.91	AS14313010		0.50
						4.75	1.27	AS14313020		1.00
				AM 4 Engine, S10D	82.55	2.38	3.89	AS14314	1 Cyl.	STD
						2.38	3.91	AS14314010		0.50
						4.75	1.27	AS14314020		0.75
								AS14314030		1.00
								AS14315		STD
				AF Air Cooled, AFH	82.55	3.18	3.89	AS14316	1 Cyl.	STD
						3.18	3.78			
						3.18	3.78			
						4.75	1.27			
		4		AP4, AP41, V64D, VG4D, VP4, VP49	88.90	3.18	3.96	AS14317	4 Cyl.	STD
						3.18	3.66			
						3.18	3.66			
						4.75	1.27			
				S12D, TRA12D	88.90	2.38	4.19	AS14318	1 Cyl.	STD
						2.38	3.66			
						4.75	3.99			
				S14D	95.25	2.38	4.47	AS14319	1 Cyl.	STD
						2.38	4.50	AS14319010		0.50
						4.75	1.27	AS14319020		0.75
V465D		4			95.25	2.38	4.47	AS14320	4 Cyl.	STD
						2.38	4.50	AS14320010		0.75
						2.38	4.50			
						4.75	1.27			
V465D		4		V465D w/cast iron oil ring	95.25	2.38	4.47	AS14321	4 Cyl.	STD
						2.38	4.50	AS14321010		0.75
						2.38	4.50			
						4.75	2.57			

										
YAMAHA										
305cu. in.	8	210 PHP		94.89	2.00	4.17		AS14322	8 Cyl.	STD
					2.00	4.19		AS14322010		0.25
					4.75	5.21		AS14322020		0.50
								AS14322030		0.75
								AS14322040		1.00
								AS14322050		1.50
								AS14323		STD
								AS14323010		0.25
								AS14323020		0.50
								AS14323030		0.75
								AS14323040		1.00
								AS14323050		1.50
								AS14324		STD
								AS14324010		0.25
								AS14324020		0.50
								AS14324030		0.75
								AS14324040		1.00
								AS14324050		1.50
181cu. in.	6	130 PHP		96.52	2.00	3.71		AS14325	6 Cyl.	STD
					2.00	4.57		AS14325010		0.50
					4.75	4.62		AS14325020		0.75
								AS14325030		1.00
								AS14325040		1.50
								AS14326		STD
								AS14326010		0.25
								AS14326020		0.50
								AS14326030		0.75
								AS14326040		1.00
								AS14326050		1.50
								AS14327		STD
								AS14327010		0.50
								AS14327020		0.75
								AS14327030		1.00
								AS14327040		1.50
350cu. in.	8	240 PHP		101.60	2.00	4.78		AS14328	8 Cyl.	STD
					2.00	4.80		AS14328010		0.25
					4.75	4.88		AS14328020		2.50
								AS14328030		0.50
								AS14328040		0.75
								AS14328050		1.00
								AS14328060		1.50
								AS14328070		1.75
								AS14328080		2.00
								AS14329		STD
								AS14329010		0.25
								AS14329020		0.50
								AS14329030		0.75
								AS14329040		1.00
								AS14329050		1.50
								AS14329060		1.75
								AS14329070		2.00
								AS14330		STD
								AS14330010		0.13
								AS14330020		0.25
								AS14330030		0.50
								AS14330040		0.75
								AS14330050		1.00
								AS14330060		1.50
								AS14330070		1.75
								AS14330080		2.00
								AS14330090		2.50

										
YAMAHA										
262cu. in.		6		205 PHP	101.60	2.00	4.78	AS14331	6 Cyl.	STD
						2.00	4.80	AS14331010		0.50
						4.75	4.24	AS14331020		0.75
								AS14331030		1.00
								AS14331040		1.50
								AS14332		STD
								AS14332010		0.50
								AS14332020		0.75
								AS14332030		1.00
								AS14332040		1.50
								AS14333		STD
								AS14333010		0.50
								AS14333020		0.75
								AS14333030		1.00
								AS14333040		1.50
YUGO-ZASTAVA										
128A	1116	4		GV	80.00	1.50	3.18	AS14401	4 Cyl.	STD
						2.00	3.71	AS14401010		0.50
						4.00	3.81	AS14401020		0.75
								AS14401030		0.81
								AS14401040		1.00
								AS14401050		1.50
								AS14402		STD
								AS14402010		0.50
								AS14402020		0.61
								AS14402030		0.75
								AS14402040		0.81
								AS14402050		1.00
								AS14402060		1.50
								AS14402070		1.60
128C	1290	4	1989-1992	GVX	86.00	1.50	3.45	AS14403	4 Cyl.	STD
						2.00	3.89	AS14403010		0.25
						4.00	4.11	AS14403020		0.41
								AS14403030		0.50
								AS14403040		0.61
								AS14403050		0.75
								AS14403060		0.81
								AS14403070		1.00
								AS14403080		1.50
								AS14404		STD
								AS14404010		0.25
								AS14404020		0.41
								AS14404030		0.50
								AS14404040		0.75
								AS14404050		1.00



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