

THE ENGINE KIT CATALOG



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**AUTOMOTIVE
PERFORMANCE
HEAVY-DUTY
FORK-LIFT
MARINE**

2010

JPW Engine Kit Catalog - 2010

CYL	Engine Size	Years	vin_code	Notes	Bore	Stroke	JPW Kit #
ACURA							
4	104 / 1678cc	92-93	B17A1	DOHC 16V Integra (VTEC Engine)	81mm	81mm	001-104
4	110 / 1797cc	94-95	B18C1	DOHC 16V Integra GSR (VTEC Engine)	81mm	90mm	001-110
4	96 / 1590cc	86-89	D16A1	DOHC 16V MFI Integra No Camshaft	75mm	90mm	001-097
4	110 / 1797cc	96-01	B18C1	DOHC 16V Integra GS-R (VTEC Engine)	81mm	90mm	001-110A
4	110 / 1797cc	97-98	B18C1	DOHC 16V Integra GS-R (VTEC Engine)	81mm	90mm	001-110B
4	112 / 1797cc	97-03	B18C5	DOHC 16V (VTEC) Integra Type R	81mm	87.2mm	001-112
4	112 / 1834cc	94-95	B18B1	DOHC 16V SFI Integra	81mm	90mm	001-112B
4	112 / 1834cc	96-01	B18B1	DOHC 16V SFI Integra	81mm	90mm	001-112C
4	112 / 1834cc	90-94	B18A1	DOHC 16V MPI Integra	81mm	90mm	001-112A
4	112 / 1834cc	96-99	B18B1	DOHC Integra No Camshaft, Timing, Lifters, Frost Plugs	81mm	90mm	001-113B
4	122 / 1998cc	02-05	K20A3	DOHC 16V RSX	86mm	86mm	001-122
4	132 / 2156cc	97-97	F22B1	SOHC 16V (VTEC) CL	85mm	95mm	001-132
4	138 / 2254cc	98-02	F23A1	SOHC 16V CL	86mm	97mm	040-138
4	144 / 2354cc	03-05	K24A2	DOHC 16V VTEC TSX	87mm	99mm	001-144
5	150 / 2451cc	92-94	G25A1	SOHC 20V MFI Vigor	85mm	86.3mm	001-150
5	150 / 2451cc	95-98	G25A4	SOHC 20V PGM-FI TL	85mm	86.4mm	001-150A
6	151 / 2493cc	86-87	C25A1	SOHC MFI Legend	84mm	75mm	001-151
6	163 / 2675cc	87-90	C27A1	SOHC MFI Legend (Std Models)	87mm	75mm	001-163
6	163 / 2675cc	88-90	C27A1	SOHC MFI Legend (L, LS Models)	87mm	75mm	001-163A
6	183 / 2997cc	97-00	J30A1	SOHC 24V (VTEC) CL	86mm	86mm	040-183
6	183 / 3.0L	97-00	J30A1	SOHC 24V CL	86mm	86mm	040-183
6	196 / 3165cc	96-00	6VD1	DOHC 24V Legend SLX (Isuzu motor)	93.4mm	85mm	045-193A
6	196 / 3206cc	91-95	C32A1	SOHC 24V Legend	90mm	84mm	001-196
6	196 / 3206cc	96-98	C32A6	SOHC 24V TL	90mm	84mm	001-196A
6	196 / 3210cc	01-03	J32A1	SOHC 24V VTEC TL	89mm	86mm	001-196
6	196 / 3210cc	01-03	J32A2	SOHC 24V VTEC CL, TYPE S	89mm	86mm	001-196A
6	212 / 3471cc	01-05	J35A3	SOHC 24V VTEC MDX, RL	89mm	93mm	001-212A
6	212 / 3474cc	96-04	C35A1	SOHC 24V RL	90mm	91mm	001-212
6	213 / 3494cc	98-99	6VE1	DOHC 24V Legend SLX (Isuzu motor)	93.4mm	85mm	045-212
AMERICAN MOTORS							
4	85 / 1.4L	83-87		Alliance & Encore	76mm	77mm	071-085
4	150 / 2.46L	83-85		11mm Flange Holes	3.875in.	3.19in.	003-150
4	150 / 2.46L	83-85		10mm Flange Holes	3.875in.	3.19in.	003-150A
4	150 / 2.46L	86-87		11mm Flange Holes	3.875in.	3.19in.	003-150B
4	150 / 2.46L	86-87		10mm Flange Holes	3.875in.	3.19in.	003-150C
4	150 / 2.46L	87-88			3.875in.	3.19in.	003-150D
4	151 / 2.5L	81-81	B	Pontiac Engine	4in.	3in.	003-151
4	151 / 2.5L	82-83	B	Pontiac Engine	4in.	3in.	003-151A
6	196 / 3.2L	61-65		OHV Cast Iron	3.125in.	4.25in.	003-196
6	232 / 3.8L	72-79			3.75in.	3.5in.	003-232
6	258 / 4.2L	72-78			3.75in.	3.906in.	003-258
6	258 / 4.2L	79-80			3.75in.	3.906in.	003-258A
6	258 / 4.2L	81-85			3.75in.	3.906in.	003-258B
6	258 / 4.2L	86-86		Plastic Valve Cover	3.75in.	3.906in.	003-258C
6	258 / 4.2L	86-86		Aluminum Valve Cover	3.75in.	3.906in.	003-258D
6	258 / 4.2L	87-88		Serpentine Belt Pulley	3.75in.	3.906in.	003-258E
6	258 / 4.2L	87-88		Serpentine Belt Pulley (Aluminum Valve Covers)	3.75in.	3.906in.	003-258F

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AMERICAN MOTORS <i>continued</i>							
8	290 / 4.8L	66-69	A/J		3.75in.	3.281in.	003-290
8	304 / 5.0L	72-79			3.75in.	3.438in.	003-304
8	327 / 5.4L	60-66	A/J	Series 80	3.95in.	3.25in.	003-327
8	343 / 5.9L	67-69			4.08in.	3.28in.	003-343
8	360 / 5.9L	72-78			4.08in.	3.438in.	003-360
8	390 / 6.4L	68-69	A/J		4.165in.	3.574in.	003-390
8	390 / 6.4L	70-70	A/J		4.165in.	3.574in.	003-390A
8	401 / 6.6L	71-76			4.165in.	3.68in.	003-401
AUDI							
4	97 / 1588cc	81-84	CR, JK	Diesel (M11 Head Bolt & 1 Groove Head Gsk)	76.5mm	80mm	082-097B
4	97 / 1588cc	81-84	CR, JK	Diesel (M11 Head Bolt & 2 Grooves Head Gsk)	76.5mm	80mm	082-097C
4	97 / 1588cc	81-84	CR, JK	Diesel (M11 Head Bolt & 3 Grooves Head Gsk)	76.5mm	80mm	082-097D
4	97 / 1588cc	82-84	CR, JK	Diesel (M12 Head Bolt & 1 Groove Head Gsk)	76.5mm	80mm	082-097E
4	97 / 1588cc	82-84	CR, JK	Diesel (M12 Head Bolt & 2 Grooves Head Gsk)	76.5mm	80mm	082-097F
4	97 / 1588cc	82-84	CR, JK	Diesel (M12 Head Bolt & 3 Grooves Head Gsk)	76.5mm	80mm	082-097G
4	97 / 1588cc	82-84	CY	Turbo-Diesel (M12 Head Bolt & 1 Groove Gsk)	76.5mm	80mm	082-097N
4	97 / 1588cc	82-84	CY	Turbo-Diesel (M12 Head Bolt & 2 Grooves Gsk)	76.5mm	80mm	082-097O
4	97 / 1588cc	82-84	CY	Turbo-Diesel (M12 Head Bolt & 3 Grooves Gsk)	76.5mm	80mm	082-097P
4	105 / 1715cc	81-82		24mm Crankshaft Nose	79.5mm	86mm	082-104
4	105 / 1715cc	83-83		32mm Crankshaft Nose	79.5mm	86mm	082-104A
4	121 / 1780cc	84-87	JN, MG	SOHC 8V MFI	81mm	86.4mm	082-109B
5	121 / 1986cc	81-82	CN	Diesel (M12 Head bolt & 1 Groove Head Gsk)	76.5mm	86.4mm	005-121
5	121 / 1986cc	81-82	CN	Diesel (M12 Head bolt & 2 Groove Head Gsk)	76.5mm	86.4mm	005-121A
5	121 / 1986cc	81-82	CN	Diesel (M12 Head bolt & 3 Groove Head Gsk)	76.5mm	86.4mm	005-121B
5	121 / 1986cc	83-85	DE	Turbo Diesel (M12 Head Bolt & 1 Groove Gsk)	76.5mm	86.4mm	005-121C
5	121 / 1986cc	83-85	DE	Turbo Diesel (M12 Head Bolt & 2 Groove Gsk)	76.5mm	86.4mm	005-121D
5	121 / 1986cc	83-85	DE	Turbo Diesel (M12 Head Bolt & 3 Groove Gsk)	76.5mm	86.4mm	005-121E
5	131 / 2144cc	81-83	KH, WK, WX	Turbo 4000, 5000	79.5mm	86.4mm	005-131B
5	131 / 2144cc	81-83	WD, WE, WU	4000, 5000	79.5mm	86.4mm	005-131
5	131 / 2144cc	83-86	KH, WK, WX	Turbo 4000, 5000	79.5mm	86.4mm	005-131C
5	131 / 2144cc	84-85	WD, WE, WU	4000, 5000	79.5mm	86.4mm	005-131A
5	136 / 2226cc	84-87	JT, KX, KZ		81mm	86.4mm	005-136
5	136 / 2226cc	84-87	MC	Turbo SOHC 10V MFI	81mm	86.4mm	005-136A
BMW							
4	107 / 1766cc	80-81	M10B18	SOHC 8V MFI	89mm	47.1mm	008-107
4	107 / 1766cc	82-83	M10B18	SOHC 8V MFI	89mm	47.1mm	008-107A
4	107 / 1766cc	84-85	M10B18	SOHC 8V MFI	89mm	47.1mm	008-107B
6	151 / 2494cc	87-91	M20B25	SOHC (Ex. 325IX)	84mm	72mm	008-151C
6	164 / 2692cc	82-87	M20B27	SOHC 12V MFI	84mm	64.77mm	008-164
6	194 / 3210cc	81-84	M30B32	SOHC 12V MFI	89mm	86mm	008-194

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BUICK							
4	112 / 1.8L	82-86	0	OHC	84.8mm	80mm	069-112
4	112 / 1.8L	82-82	G	OHV	89mm	74mm	018-112
4	112 / 1.8L	84-86	J	OHC Turbo	84.8mm	80mm	069-112A
4	121 / 2.0L	83-83	B, P	OHV	89mm	80mm	018-121
4	121 / 2.0L	84-84	B, P	OHV W/ 2 piece Rear Seal	89mm	80mm	018-121A
4	121 / 2.0L	84-84	B, P	OHV W/O Direct Magnetic Ignition	89mm	80mm	018-121B
4	121 / 2.0L	85-86	P	OHV	89mm	80mm	018-121C
4	121 / 2.0L	87-89	1	OHV	89mm	80mm	018-121D
4	122 / 2.0L	87-88	K		3.386in.	3.386in.	069-122
4	122 / 2.0L	87-87	M	Turbo	3.386in.	3.386in.	069-122B
4	134 / 2.2L	90-93	G	OHV 90-93 1st. Design	89mm	88mm	018-134
4	134 / 2.2L	93-93	4	Roller Cam	89mm	88mm	018-134A
4	134 / 2.2L	94-96	4		89mm	88mm	018-134B
4	138 / 2.3L	88-88	D	DOHC (1st Design Timing & MFI w/AT)	92mm	85mm	060-138
4	138 / 2.3L	89-91	D	DOHC (1st Design Timing & MFI w/AT)	92mm	85mm	060-138A
4	138 / 2.3L	89-91	D	DOHC (2nd Design Timing & MFI w/AT)	92mm	85mm	060-138B
4	138 / 2.3L	92-94	3	SOHC	92mm	85mm	060-138E
4	146 / 2.4L	96-98	T	DOHC MFI	3.543in.	3.7in.	018-146
4	151 / 2.5L	80-81	5	RWD	4in.	3in.	069-151A
4	151 / 2.5L	80-81	5	FWD	4in.	3in.	069-151B
4	151 / 2.5L	82-84	F, R, S, 5	Automatic Trans.	4in.	3in.	069-151C
4	151 / 2.5L	82-84	F, R, S, 5	Standard Trans.	4in.	3in.	069-151D
4	151 / 2.5L	85-85	R	Automatic Trans.	4in.	3in.	069-151E
4	151 / 2.5L	85-85	R	Standard Trans. W/O Direct Magnetic Ignition	4in.	3in.	069-151F
4	151 / 2.5L	85-86	R	Automatic Trans. W/O Direct Magnetic Ignition	4in.	3in.	069-151G
4	151 / 2.5L	85-86	R	Standard Trans.	4in.	3in.	069-151I
4	151 / 2.5L	85-86	U	Automatic Trans.	4in.	3in.	069-151J
4	151 / 2.5L	85-86	U	Standard Trans.	4in.	3in.	069-151K
4	151 / 2.5L	87-87	R	Automatic Trans.	4in.	3in.	069-151P
4	151 / 2.5L	87-87	R	Standard Trans.	4in.	3in.	069-151Q
4	151 / 2.5L	87-87	U	Automatic Trans. W/O Balancer Drive Gear	4in.	3in.	069-151L
4	151 / 2.5L	87-87	U	Standard Trans. W/O Balancer Drive Gear	4in.	3in.	069-151M
4	151 / 2.5L	87-87	U	Automatic Trans. 78 Tooth Balancer Drive Gear	4in.	3in.	069-151N
4	151 / 2.5L	87-87	U	Standard Trans. 78 Tooth Balancer Drive Gear	4in.	3in.	069-151O
4	151 / 2.5L	88-88	R	Automatic Trans. W/ Balancer Drive Gear	4in.	3in.	069-151PB
4	151 / 2.5L	88-88	R	Standard Trans. W/O Balancer Drive Gear	4in.	3in.	069-151QB
4	151 / 2.5L	88-89	R	Automatic Trans.	4in.	3in.	069-151T
4	151 / 2.5L	88-89	R	Standard Trans.	4in.	3in.	069-151U
4	151 / 2.5L	88-88	U	Automatic Trans.	4in.	3in.	069-151R
4	151 / 2.5L	88-88	U	Standard Trans.	4in.	3in.	069-151S
4	151 / 2.5L	89-89	U	Automatic Trans.	4in.	3in.	069-151V
4	151 / 2.5L	89-89	U	Standard Trans.	4in.	3in.	069-151W
4	151 / 2.5L	90-90	R	Automatic Trans.	4in.	3in.	069-151X
4	151 / 2.5L	90-90	R	Standard Trans.	4in.	3in.	069-151Y
4	151 / 2.5L	90-90	U	Automatic Trans.	4in.	3in.	069-151Z
4	151 / 2.5L	90-90	U	Standard Trans.	4in.	3in.	069-151ZA
4	151 / 2.5L	91-92	R	Automatic Trans.	4in.	3in.	069-151ZB
4	151 / 2.5L	91-92	R	Standard Trans.	4in.	3in.	069-151ZC

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BUICK Continued							
4	151 / 2.5L	91-91	U	Automatic Trans.	4in.	3in.	069-151ZD
4	151 / 2.5L	91-91	U	Standard Trans.	4in.	3in.	069-151ZE
6	173 / 2.8L	80-84	X, 1, 7	Except Hi-Output Engine	89mm	76mm	018-173
6	173 / 2.8L	81-84	Z	Hi-Output Engine	89mm	76mm	018-173A
6	173 / 2.8L	85-86	W	MFI Main Journal Dia. 2.648	89mm	76mm	018-173E
6	173 / 2.8L	85-85	X	W/ 2V Main Journal Dia. 2.495	89mm	76mm	018-173D
6	173 / 2.8L	85-85	X	W/ 2V Main Journal Dia. 2.648	89mm	76mm	018-173F
6	173 / 2.8L	86-86	X	W/ 2V Main Journal Dia. 2.648	89mm	76mm	018-173FA
6	173 / 2.8L	87-89	W	MFI	89mm	76mm	018-173H
6	181 / 3.0L	82-82	E	W/ 2V To 11/30/82	3.8in.	2.66in.	011-181
6	181 / 3.0L	82-85	E	W/ 2V From 12/1/82 (14 Bolt Oil Pan)	3.8in.	2.66in.	011-181D
6	181 / 3.0L	82-85	E	W/ 2V From 12/1/82 (20 Bolt Oil Pan)	3.8in.	2.66in.	011-181E
6	181 / 3.0L	85-85	L	MFI	3.8in.	2.66in.	011-181A
6	181 / 3.0L	86-86	L	MFI	3.8in.	2.66in.	011-181B
6	181 / 3.0L	87-88	L	MFI	3.8in.	2.66in.	011-181C
6	191 / 3.1L	89-89	T	MFI	89mm	84mm	018-191
6	191 / 3.1L	90-90	T	MFI 1st Design Oil Pump 5/8 Inlet	89mm	84mm	018-191B
6	191 / 3.1L	90-94	T	MFI 2nd Design Oil Pump 3/4 Inlet	89mm	84mm	018-191D
6	191 / 3.1L	94-98	M	SFI/MFI	3.5039in.	3.307in.	018-191G
6	196 / 3.2L	78-78	C		3.5in.	3.4in.	018-196
6	196 / 3.2L	79-79	C		3.5in.	3.4in.	018-196A
6	204 / 3.3L	89-90	N	3300 MFI	3.7in.	3.16in.	011-204
6	204 / 3.3L	91-93	N	3300 MFI	3.7in.	3.16in.	011-204A
8	215 / 3.5L	61-63		Aluminum, Clev mains std/.010 only	3.5in.	2.8in.	011-215
6	225 / 3.7L	65-71	C		3.4in.	4.125in.	011-225
6	231 / 3.8L	00-03	1	Supercharged	3.8in.	3.4in.	011-231ZH
6	231 / 3.8L	00-02	K	RWD	3.8in.	3.4in.	011-231ZE
6	231 / 3.8L	00-03	K	FWD	3.8in.	3.4in.	011-231ZF
6	231 / 3.8L	04-05	1,4	Supercharged Bonneville, Park Avenue	3.8in.	3.4in.	011-231ZI
6	231 / 3.8L	04-05	1,4	Supercharged Grand Prix, Impala, Monte Carlo, Regal	3.8in.	3.4in.	011-231ZJ
6	231 / 3.8L	04-05	K	FWD Bonneville, LeSabre, Park Avenue	3.8in.	3.4in.	011-231ZK
6	231 / 3.8L	04-05	K	FWD Grand Prix, Impala, LaCrosse, Lucerne, Monte Carlo, Regal	3.8in.	3.4in.	011-231ZL
6	231 / 3.8L	75-76	C	Odd Fire Engine	3.8in.	3.4in.	011-231
6	231 / 3.8L	77-78	A, 2	Even Fire Engine	3.8in.	3.4in.	011-231A
6	231 / 3.8L	77-77	C	Odd Fire Engine	3.8in.	3.4in.	011-231
6	231 / 3.8L	79-79	3	Turbo	3.8in.	3.4in.	011-231B
6	231 / 3.8L	79-81	A, 2		3.8in.	3.4in.	011-231C
6	231 / 3.8L	80-81	3	Turbo	3.8in.	3.4in.	011-231D
6	231 / 3.8L	82-82	3, 8	Turbo (Except Riviera) To 11/30/82	3.8in.	3.4in.	011-231B
6	231 / 3.8L	82-83	3, 8	Turbo (Exc.Riviera) From 12/1/82	3.8in.	3.4in.	011-231BA
6	231 / 3.8L	82-82	3, 8	Turbo Riviera To 11/30/82	3.8in.	3.4in.	011-231D
6	231 / 3.8L	82-83	3, 8	Turbo Riviera From 12/1/82	3.8in.	3.4in.	011-231DA
6	231 / 3.8L	82-82	A	Naturally Aspirated Riviera To 11/30/82	3.8in.	3.4in.	011-231E
6	231 / 3.8L	82-83	A	Naturally Aspirated Riviera From 12/1/82	3.8in.	3.4in.	011-231EA
6	231 / 3.8L	82-82	A	Naturally Aspirated Except Riviera	3.8in.	3.4in.	011-231F

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BUICK Continued							
6	231 / 3.8L	83-83	A	Naturally Aspirated Exc. Riviera	3.8in.	3.4in.	011-231J
6	231 / 3.8L	84-84	3	FWD	3.8in.	3.4in.	011-231I
6	231 / 3.8L	84-84	9	Turbo	3.8in.	3.4in.	011-231G
6	231 / 3.8L	84-84	A	RWD W/ Aluminum Int. Manifold	3.8in.	3.4in.	011-231H
6	231 / 3.8L	84-84	A	RWD W/ Cast Iron Int. Manifold	3.8in.	3.4in.	011-231J
6	231 / 3.8L	85-85	3	FWD W/ 14 Bolt Oil Pan	3.8in.	3.4in.	011-231M
6	231 / 3.8L	85-85	3	FWD W/ 20 Bolt Oil Pan	3.8in.	3.4in.	011-231N
6	231 / 3.8L	85-85	9	Turbo	3.8in.	3.4in.	011-231L
6	231 / 3.8L	85-85	A	RWD	3.8in.	3.4in.	011-231K
6	231 / 3.8L	86-88	3	Roller FWD Exc.H.O.	3.8in.	3.4in.	011-231X
6	231 / 3.8L	86-88	7	Turbo	3.8in.	3.4in.	011-231Q
6	231 / 3.8L	86-87	A	RWD	3.8in.	3.4in.	011-231P
6	231 / 3.8L	86-88	B	FWD Exc. H.O.	3.8in.	3.4in.	011-231O
6	231 / 3.8L	88-88	C	3800 MFI	3.8in.	4in.	011-231R
6	231 / 3.8L	89-90	C	3800 MFI	3.8in.	4in.	011-231S
6	231 / 3.8L	90-92	L	3800 TPI	3.8in.	4in.	011-231T
6	231 / 3.8L	91-91	C	3800 MFI	3.8in.	3.4in.	011-231U
6	231 / 3.8L	92-93	1	MFI Supercharged	3.8in.	3.4in.	011-231ZB
6	231 / 3.8L	93-93	L	3800 TPI	3.8in.	4in.	011-231V
6	231 / 3.8L	94-94	1	MFI Supercharged	3.8in.	3.4in.	011-231ZC
6	231 / 3.8L	94-94	L	3800 TPI	3.8in.	4in.	011-231W
6	231 / 3.8L	95-97	1	Supercharged	3.8in.	3.4in.	011-231ZD
6	231 / 3.8L	95-97	K	MFI	3.8in.	3.4in.	011-231Z
6	231 / 3.8L	95-95	L	3800 TPI	3.8in.	4in.	011-231Y
6	231 / 3.8L	97-01	K	SFI 2nd Design	3.8in.	3.4in.	011-231ZA
6	250 / 4.1L	71-76		Exc. Integral Head	3.875in.	3.531in.	018-250
6	250 / 4.1L	75-75	D	W/ Integral Head	3.875in.	3.531in.	018-250A
6	250 / 4.1L	76-76	D	W/ Integral Head	3.875in.	3.531in.	018-250B
6	252 / 4.1L	80-82	4		3.965in.	3.4in.	011-252
6	252 / 4.1L	83-84	4		3.965in.	4in.	011-252A
8	260 / 4.3L	75-76		Oldsmobile Engine	3.5in.	3.385in.	060-260A
6	260 / 4.3L	82-85	T,V	Diesel	4.057in.	3.585in.	060-260
6	262 / 4.3L	85-85	Z	TBI	4in.	3.484in.	018-262
6	262 / 4.3L	86-86	Z	TBI	4in.	3.484in.	018-262A
6	262 / 4.3L	87-92	Z	TBI W/ 1st Design Oil Pump	4in.	3.484in.	018-262B
6	262 / 4.3L	93-93	Z	TBI W/1st Design Oil Pump (Exc. Split Cam Brgs.)	4in.	3.484in.	018-262C
6	262 / 4.3L	93-93	Z	TBI W/ 2nd Design Oil Pump (Exc. Split Cam Brgs.)	4in.	3.484in.	018-262D
8	267 / 4.4L	81-82	J		3.5in.	3.484in.	018-267A
8	301 / 4.9L	77-79	W, Y		4in.	3in.	069-301
8	301 / 4.9L	80-81	W, Y		4in.	3in.	069-301A
8	305 / 5.0L	77-80	G, H, U		3.736in.	3.484in.	018-305
8	305 / 5.0L	81-81	H		3.736in.	3.484in.	018-305A
8	305 / 5.0L	82-83	H		3.736in.	3.484in.	018-305A
8	305 / 5.0L	84-85	H		3.736in.	3.484in.	018-305B
8	305 / 5.0L	86-86	H		3.736in.	3.484in.	018-305D
8	305 / 5.0L	91-91	E	TBI	3.736in.	3.484in.	018-305G
8	307 / 5.0L	80-84	Y		3.8in.	3.385in.	060-307
8	307 / 5.0L	85-88	Y		3.8in.	3.385in.	060-307A
8	307 / 5.0L	89-90	Y		3.8in.	3.385in.	060-307A
8	340 / 5.6L	67-67	B	4BBL	3.75in.	3.85in.	011-340
8	340 / 5.6L	67-67	B	2BBL	3.75in.	3.85in.	011-340A

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BUICK Continued							
8	350 / 5.7L	68-75	H, J	Buick Engine	3.8in.	3.85in.	011-350
8	350 / 5.7L	76-78	B, H, J	Buick Engine	3.8in.	3.85in.	011-350A
8	350 / 5.7L	77-79	L	Chevrolet Engine	4in.	3.484in.	018-350A
8	350 / 5.7L	77-80	R	Oldsmobile Engine	4.057in.	3.385in.	060-350D
8	350 / 5.7L	79-81	X	Buick Engine	3.8in.	3.85in.	011-350B
8	350 / 5.7L	80-81	N	Diesel W/ External EGR	4.057in.	3.385in.	060-350DA
8	350 / 5.7L	81-85	N	Diesel W/ Internal EGR	4.057in.	3.385in.	060-350DB
8	350 / 5.7L	91-93	7	TBI Chevrolet Engine	4in.	3.484in.	018-350E
8	350 / 5.7L	94-94	P	W/ 1st Design Oil Pump	4in.	3.484in.	018-350H
8	350 / 5.7L	94-97	P	W/ 2nd Design Oil Pump	4in.	3.484in.	018-350I
8	364 / 5.9L	57-61	B	exc DF	4.125in.	3.4in.	011-364
8	400 / 6.6L	67-67	B	Buick Engine	4.04in.	3.9in.	011-400
8	400 / 6.6L	68-69	B	Buick Engine	4.04in.	3.9in.	011-400A
8	400 / 6.6L	78-79	Z	Pontiac Engine	4.12in.	3.75in.	069-400B
8	401 / 5.9L	59-61	B		4.1875in.	3.64in.	011-401B
8	401 / 6.6L	61-63			4.1875in.	3.64in.	011-401
8	401 / 6.6L	64-66			4.1875in.	3.64in.	011-401A
8	403 / 6.6L	77-79		Oldsmobile Engine	4.351in.	3.385in.	060-403
8	425 / 7.0L	63-66			4.313in.	3.64in.	011-425
8	430 / 7.1L	67-69			4.188in.	3.9in.	011-430
8	455 / 7.4L	70-70	360HP	Muscle Car Application	4.313in.	3.9in.	011-455B
8	455 / 7.4L	71-71	345HP	Muscle Car Application	4.313in.	3.9in.	011-455A
8	455 / 7.4L	70-76			4.313in.	3.9in.	011-455
CADILLAC							
4	112 / 1.8L	82-82	G	OHV	89mm	74mm	018-112
4	121 / 2.0L	83-83	B, P	OHV	89mm	80mm	018-121
4	121 / 2.0L	84-84	B, P	OHV W/ 2 Piece Rear Seal	89mm	80mm	018-121A
4	121 / 2.0L	84-84	B, P	OHV W/O Direct Magnetic Ignition	89mm	80mm	018-121B
4	121 / 2.0L	85-86	P	OHV	89mm	80mm	018-121C
4	121 / 2.0L	87-87	1	OHV	89mm	80mm	018-121D
6	173 / 2.8L	85-85	W	MFI Main Journal Dia. 2.495	89mm	76mm	018-173C
6	173 / 2.8L	85-86	W	MFI Main Journal Dia. 2.648	89mm	76mm	018-173E
6	173 / 2.8L	87-88	W	MFI	89mm	76mm	018-173H
6	181 / 3.0L	97-01	R	DOHC 54° Vee L81 Catera	86mm	85mm	014-181
6	252 / 4.1L	80-83	4		3.965in.	3.4in.	011-252
8	252 / 4.1L	82-87	8	Non-Transverse W/O Alum. Valve Covers. (W/ Sleeve Assy's)	88mm	84mm	014-252
8	252 / 4.1L	82-87	8	Non-Transverse W/O Alum. Valve Covers.	88mm	84mm	014-252A
8	252 / 4.1L	82-87	8	Non-Transverse W/ Alum. Valve Covers.	88mm	84mm	014-252B
8	252 / 4.1L	82-87	8	Non-Transverse W/ Alum. Valve Cover (W/Sleeve Assy's)	88mm	84mm	014-252C
8	252 / 4.1L	85-87	8	Transverse W/O Alum.Valve Covers. Except Allante.	88mm	84mm	014-252D
8	252 / 4.1L	85-87	8	Transv. W/O Alum. Valve Covers. Exc. Allante.(W/ Sleeve Assy's)	88mm	84mm	014-252E
8	252 / 4.1L	85-87	8	Tranverse W/ Alum. Valve Covers. Except Allante. (W/Sleeve Assy's)	88mm	84mm	014-252F
8	252 / 4.1L	85-87	8	Tranverse W/ Alumi. Valve Covers. Except Allante.	88mm	84mm	014-252G
6	260 / 4.3L	85-85	T	Diesel	4.057in.	3.585in.	060-260
8	273 / 4.5L	88-89	5	TBI	92mm	84mm	014-273
8	273 / 4.5L	88-89	5	TBI W/ Sleeve Assy's	92mm	84mm	014-273A

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CADILLAC <i>Continued</i>							
8	273 / 4.5L	89-92	3, 8	MFI	92mm	84mm	014-273B
8	273 / 4.5L	89-92	3, 8	MFI W/ Sleeve Assy's	92mm	84mm	014-273C
8	279 / 4.6L	95-96	Y,9	DOHC (Northstar Eng.) 1st Design	93mm	84mm	014-279A
8	279 / 4.6L	96-98	Y,9	DOHC (Northstar Eng.) 2nd Design	93mm	84mm	014-279B
8	279 / 4.6L	93-94	Y,9	DOHC (Northstar Eng.)	93mm	84mm	014-279
8	281 / 4.6L	99-99	Y,9	DOHC (Northstar Eng.) 2nd Design	93mm	84mm	014-279C
8	281 / 4.6L	00-02	Y,9	DOHC (Northstar Eng.) 2nd Design	93mm	84mm	014-279D
8	281 / 4.6L	03-03	Y,9	DOHC (Northstar Eng.) 2nd Design	93mm	84mm	014-279E
8	281 / 4.6L	04-05	Y,9	DOHC (Northstar Eng.)	93mm	84mm	014-279F
8	300 / 4.9L	91-95	B	MFI	92mm	92mm	014-300
8	300 / 4.9L	91-92	B	MFI W/ Sleeve Assy's	92mm	92mm	014-300A
8	305 / 5.0L	91-91	E	TBI Chevrolet Engine	3.736in.	3.484in.	018-305G
8	305 / 5.0L	92-92	E	TBI Chevrolet Engine	3.736in.	3.484in.	018-305H
8	307 / 5.0L	86-88	Y, 9		3.8in.	3.385in.	060-307A
8	307 / 5.0L	89-90	Y, 9		3.8in.	3.385in.	060-307A
8	350 / 5.7L	75-75	R	Oldsmobile Engine	4.057in.	3.385in.	060-350B
8	350 / 5.7L	76-76	R	Oldsmobile Engine	4.057in.	3.385in.	060-350B
8	350 / 5.7L	77-80	B, R, 8	Oldsmobile Engine	4.057in.	3.385in.	060-350D
8	350 / 5.7L	78-81	N	Diesel W/ External EGR	4.057in.	3.385in.	060-350DA
8	350 / 5.7L	81-85	N	Diesel W/ Internal EGR	4.057in.	3.385in.	060-350DB
8	350 / 5.7L	90-91	7	TBI Chevrolet Engine	4in.	3.484in.	018-350E
8	350 / 5.7L	92-93	7	TBI Chevrolet Engine 1st Design Oil Pump	4in.	3.484in.	018-350F
8	350 / 5.7L	93-93	7	TBI Chevrolet Engine 2nd Design Oil Pump	4in.	3.484in.	018-350G
8	350 / 5.7L	94-94	P	W/ 1st Design Oil Pump	4in.	3.484in.	018-350H
8	350 / 5.7L	94-96	P	W/ 2nd Design Oil Pump	4in.	3.484in.	018-350I
8	365 / 6.0L	58-58		Recessed Top Piston	4in.	3.625in.	014-365A
8	365 / 6.0L	56-57			4in.	3.625in.	014-365
8	368 / 6.0L	80-84	6, 9		3.8in.	4.06in.	014-368
8	390 / 6.5L	59-62			4in.	3.875in.	014-390
8	390 / 6.5L	63-63			4in.	3.875in.	014-390A
8	425 / 7.0L	77-79	S,T		4.082in.	4.06in.	014-425
8	429 / 7.0L	64-65	CAD	REPRICE IF .010 MAINS	4.129in.	4in.	014-429
8	429 / 7.0L	66-67	CAD	REPRICE IF .010 MAINS	4.129in.	4in.	014-429A
8	472 / 7.7L	68-74			4.3in.	4.06in.	014-472
8	500 / 8.0L	70-76			4.3in.	4.3in.	014-500
CHEVROLET							
3	61 / 1.0L	93-93	6	Exc. Turbo	74mm	77mm	077-061B
3	61 / 1.0L	85-88	M, 5	Exc. Turbo	74mm	0mm	077-061
3	61 / 1.0L	89-89	6	Exc. Turbo	74mm	77mm	077-061A
4	91 / 1.5L	85-87	K, 7	Spectrum	77mm	79mm	045-091
4	91 / 1.5L	87-89	9	Spectrum Turbo (8 Bolt Crank)	77mm	79mm	045-091B
4	91 / 1.5L	87-89	K, 7	Spectrum (8 Bolt Crank)	77mm	79mm	045-091A
4	97 / 1.6L	85-85	4	SOHC Nova	81mm	77mm	078-097
4	97 / 1.6L	86-88	4	SOHC Nova	81mm	77mm	078-097A
4	97 / 1.6L	88-88	5	DOHC Nova	81mm	77mm	078-097B
4	98 / 1.6L	76-76	E	Chevette	82mm	76mm	018-098
4	98 / 1.6L	77-77	E	Chevette	82mm	76mm	018-098A
4	98 / 1.6L	78-78	E, J	Chevette	82mm	76mm	018-098B
4	98 / 1.6L	79-82	C, E, O, 9	Chevette W/ 1.09 Pilot Hole In Crankshaft	82mm	76mm	018-098C

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CHEVROLET <i>Continued</i>							
4	98 / 1.6L	81-83	C, E, O, 9	Chevette W/ .825 Pilot Hole In Crankshaft	82mm	76mm	018-098D
4	98 / 1.6L	84-87	C	Chevette (Shallow Oil Groove)	82mm	76mm	018-098E
4	108 / 1.8L	93-95	8	DOHC 16V MFI	81mm	85.5mm	078-107
4	108 / 1.8L	96-97	8	DOHC 16V MFI	81mm	85.5mm	078-107A
4	112 / 1.8L	82-82	G	OHV	89mm	74mm	018-112
4	112 / 1.8L	86-86	0	OHC	84.8mm	80mm	069-112
4	112 / 1.8L	86-86	J	OHC Turbo	84.8mm	80mm	069-112A
4	121 / 2.0L	83-83	B, P	OHV	89mm	80mm	018-121
4	121 / 2.0L	84-84	B, P	OHV W/ 2 Piece Rear Seal	89mm	80mm	018-121A
4	121 / 2.0L	84-84	B, P	OHV W/O Direct Magnetic Ignition	89mm	80mm	018-121B
4	121 / 2.0L	85-86	P	OHV	89mm	80mm	018-121C
4	121 / 2.0L	87-89	1	OHV	89mm	80mm	018-121D
4	134 / 2.2L	02-05	F	DOHC L61 ECOTEC Cavalier, Cobalt, Malibu	86mm	94.6mm	018-134D
4	134 / 2.2L	90-92	G	OHV 1st Design	89mm	88mm	018-134
4	134 / 2.2L	92-93	4	Roller Cam	89mm	88mm	018-134A
4	134 / 2.2L	94-97	4		89mm	88mm	018-134B
4	138 / 2.3L	90-91	A	DOHC (1st Design Timing & W/ MT)	92mm	85mm	060-138C
4	138 / 2.3L	91-94	A	DOHC(2nd Design Timing & W/ MT)	92mm	85mm	060-138D
4	146 / 2.4L	99-99	T	with EGR	3.543in.	3.7in.	018-146A
4	146 / 2.4L	99-99	T	w/o EGR	3.543in.	3.7in.	018-146B
4	146 / 2.4L	00-01	T		3.543in.	3.7in.	018-146C
4	146 / 2.4L	96-98	T	DOHC MFI	3.543in.	3.7in.	018-146
4	151 / 2.5L	78-79	V, 1	Non-Crossflow Head	4in.	3in.	069-151
4	151 / 2.5L	80-80	5	RWD	4in.	3in.	069-151A
4	151 / 2.5L	80-81	5	FWD	4in.	3in.	069-151B
4	151 / 2.5L	82-84	F, R, S, 2, 5	Automatic Trans.	4in.	3in.	069-151C
4	151 / 2.5L	82-84	F, R, S, 2, 5	Standard Trans.	4in.	3in.	069-151D
4	151 / 2.5L	85-86	R, 2	Automtatic Trans.	4in.	3in.	069-151G
4	151 / 2.5L	85-86	R, 2	Standard Trans.	4in.	3in.	069-151H
4	151 / 2.5L	87-87	R	Automatic Trans.	4in.	3in.	069-151P
4	151 / 2.5L	87-87	R	Standard Trans.	4in.	3in.	069-151Q
4	151 / 2.5L	88-88	R	Automatic Trans. W/ Balancer Drive Gear	4in.	3in.	069-151PB
4	151 / 2.5L	88-88	R	Standard Trans. W/O Balancer Drive Gear	4in.	3in.	069-151QB
4	151 / 2.5L	88-89	R	Automatic Trans.	4in.	3in.	069-151T
4	151 / 2.5L	88-89	R	Standard Trans.	4in.	3in.	069-151U
4	151 / 2.5L	90-90	R	Automatic Trans.	4in.	3in.	069-151X
4	151 / 2.5L	90-90	R	Standard Trans.	4in.	3in.	069-151Y
4	151 / 2.5L	91-92	R	Automatic Trans.	4in.	3in.	069-151ZB
4	151 / 2.5L	91-92	R	Standard Trans.	4in.	3in.	069-151ZC
4	153 / 2.5L	62-64			3.875in.	3.25in.	018-153
4	153 / 2.5L	65-70			3.875in.	3.25in.	018-153A
6	173 / 2.8L	80-84	X, 1, 7	Except Hi-Output Engine	89mm	76mm	018-173
6	173 / 2.8L	81-84	Z	Hi-Output Engine	89mm	76mm	018-173A
6	173 / 2.8L	85-85	S, W	MFI & MFI HI-Output Main Journal Dia. 2.495	89mm	76mm	018-173C
6	173 / 2.8L	85-86	S, W	MFI & MFI HI-Output Main Journal Dia. 2.648	89mm	76mm	018-173E
6	173 / 2.8L	85-85	X	W/ 2V Main Journal Dia. 2.495	89mm	76mm	018-173D
6	173 / 2.8L	85-85	X	W/ 2V Main Journal Dia. 2.648	89mm	76mm	018-173F
6	173 / 2.8L	86-86	X	W/ 2V Main Journal Dia. 2.648	89mm	76mm	018-173FA

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CHEVROLET <i>Continued</i>							
6	173 / 2.8L	87-89	S	MFI Camaro Only	89mm	76mm	018-173G
6	173 / 2.8L	87-89	W	MFI W/ Aluminum Heads	89mm	76mm	018-173H
6	191 / 3.1L	99-99	J	OHV 12V MFI	3.504in.	3.307in.	018-191O
6	191 / 3.1L	99-99	M	OHV 12V MFI 1st Design exc. Malibu	3.504in.	3.307in.	018-191J
6	191 / 3.1L	99-99	M	OHV 12V MFI 1st Design Malibu only	3.504in.	3.307in.	018-191K
6	191 / 3.1L	99-99	M	OHV 12V MFI 2nd Design exc. Malibu	3.504in.	3.307in.	018-191L
6	191 / 3.1L	99-99	M	OHV 12V MFI 2nd Design Malibu only	3.504in.	3.307in.	018-191M
6	191 / 3.1L	00-04	J	OHV 12V MFI exc. Malibu	3.504in.	3.307in.	018-191P
6	191 / 3.1L	00-04	J	OHV 12V MFI Malibu only	3.504in.	3.307in.	018-191Q
6	191 / 3.1L	00-00	M	SFI/MFI	3.504in.	3.307in.	018-191N
6	191 / 3.1L	90-90	D	Lumina APV Van (TBI) 1st Design Oil Pump	89mm	84mm	018-191A
6	191 / 3.1L	90-90	T	MFI Except Camaro 1st Design Oil Pump	89mm	84mm	018-191B
6	191 / 3.1L	90-94	T	MFI Exc. Camaro 2nd Design Oil Pump	89mm	84mm	018-191D
6	191 / 3.1L	90-92	T	MFI Camaro Only 1st Design Oil Pump	89mm	84mm	018-191E
6	191 / 3.1L	91-94	T	MFI Camaro Only 2nd Design Oil Pump	89mm	84mm	018-191F
6	191 / 3.1L	94-96	M	SFI/MFI	3.5039in.	3.307in.	018-191G
6	191 / 3.1L	97-98	M	SFI/MFI	3.5039in.	3.307in.	018-191H
6	194 / 3.2L	62-67	L		3.562in.	3.25in.	018-194
6	196 / 3.2L	78-78	C		3.5in.	3.4in.	018-196
6	196 / 3.2L	79-79	C		3.5in.	3.4in.	018-196A
6	200 / 3.3L	78-79	M		3.5in.	3.484in.	018-200
6	207 / 3.4L	00-03	E	OHV exc. Monte Carlo, Impala	3.622in.	3.307in.	018-207E
6	207 / 3.4L	00-03	E	OHV Monte Carlo, Impala only	3.622in.	3.307in.	018-207F
6	207 / 3.4L	00-03	E	Van	3.622in.	3.307in.	018-207F
6	207 / 3.4L	04-05	E	OHV 12V	3.622in.	3.307in.	018-207G
6	207 / 3.4L	91-93	X	DOHC	92mm	84mm	018-207
6	207 / 3.4L	93-95	S	OHV MFI Cast Iron Head	92mm	84mm	018-207B
6	207 / 3.4L	94-95	X	DOHC	92mm	84mm	018-207A
6	207 / 3.4L	96-97	X	DOHC	92mm	84mm	018-207C
6	207 / 3.4L	97-99	E	OHV	3.622in.	3.307in.	018-207D
6	216 / 3.4L	41-47	X		3.5in.	3.75in.	018-216
6	216 / 3.4L	48-53	X		3.5in.	3.75in.	018-216A
6	229 / 3.8L	80-84	K, 9		3.736in.	3.484in.	018-229
6	230 / 3.8L	62-64	L		3.875in.	3.25in.	018-230B
6	230 / 3.8L	65-67			3.875in.	3.25in.	018-230
6	230 / 3.8L	68-70			3.875in.	3.531in.	018-230A
6	231 / 3.8L	04-05	1,4	Supercharged Grand Prix, Impala, Monte Carlo, Regal	3.8in.	3.4in.	011-231ZJ
6	231 / 3.8L	04-05	K	FWD Grand Prix, Impala, LaCrosse, Lucerne, Monte Carlo, Regal	3.8in.	3.4in.	011-231ZL
6	231 / 3.8L	78-78	A, 2	Even Fire Engine	3.8in.	3.4in.	011-231A
6	231 / 3.8L	79-81	A, 2		3.8in.	3.4in.	011-231C
6	231 / 3.8L	80-81	3	Turbo	3.8in.	3.4in.	011-231D
6	231 / 3.8L	82-82	A		3.8in.	3.4in.	011-231C
6	231 / 3.8L	83-83	A		3.8in.	3.4in.	011-231J
6	231 / 3.8L	84-84	A	RWD W/ Aluminum Int. Manifold	3.8in.	3.4in.	011-231H
6	231 / 3.8L	84-84	A	RWD W/ Cast Iron Int. Manifold	3.8in.	3.4in.	011-231J
6	231 / 3.8L	85-85	A	RWD	3.8in.	3.4in.	011-231K

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CHEVROLET <i>Continued</i>							
6	231 / 3.8L	86-87	A	RWD	3.8in.	3.4in.	011-231P
6	231 / 3.8L	92-92	L	3800 TPI	3.8in.	3.4in.	011-231T
6	231 / 3.8L	95-97	K	MFI	3.8in.	3.4in.	011-231Z
6	231 / 3.8L	97-01	K	SFI 2nd Design	3.8in.	3.4in.	011-231ZA
6	235 / 3.8L	53-53	X	W/O Powerglide	3.563in.	3.938in.	018-235
6	235 / 3.8L	53-55	X	W/ Powerglide	3.563in.	3.938in.	018-235A
6	235 / 3.8L	54-54	X	W/O Powerglide (Dowel Pin & Small Journal)	3.563in.	3.938in.	018-235B
6	235 / 3.8L	55-58	X		3.563in.	3.938in.	018-235C
6	235 / 3.8L	59-62	X		3.563in.	3.938in.	018-235D
6	250 / 4.1L	66-70	Q	OHV	3.875in.	3.531in.	018-250C
6	250 / 4.1L	71-76		Exc. Integral Head	3.875in.	3.531in.	018-250
6	250 / 4.1L	75-75	D	W/ Integral Head	3.875in.	3.531in.	018-250A
6	250 / 4.1L	76-79	D	W/ Integral Head	3.875in.	3.531in.	018-250B
6	260 / 4.3L	82-85	T,V	Diesel	4.057in.	3.585in.	060-260
8	262 / 4.3L	75-76	G	V8 OHV 2BC	3.671in.	3.109in.	018-262E
6	262 / 4.3L	85-85	Z	TBI	4in.	3.484in.	018-262
6	262 / 4.3L	86-86	Z	TBI	4in.	3.484in.	018-262A
6	262 / 4.3L	87-88	Z	TBI	4in.	3.484in.	018-262B
6	262 / 4.3L	89-92	Z	TBI	4in.	3.484in.	018-262B
6	262 / 4.3L	93-93	Z	TBI W/1st Design Oil Pump (Exc.Split Cam Brgs)	4in.	3.484in.	018-262C
6	262 / 4.3L	93-93	Z	TBI W/ 2nd Design Oil Pump (Exc. Split Cam Brgs)	4in.	3.484in.	018-262D
8	265 / 4.3L	55-57			3.75in.	3in.	018-265
8	265 / 4.3L	94-94	W	OHV V8 5/8" OIL PUMP INLET	3.736in.	3in.	018-265A
8	265 / 4.3L	94-95	W	OHV V8 3/4" OIL PUMP INLET	3.736in.	3in.	018-265B
8	265 / 4.3L	95-96	W	OHV V8	3.736in.	3in.	018-265C
8	267 / 4.4L	79-80	J		3.5in.	3.484in.	018-267
8	267 / 4.4L	81-82	J		3.5in.	3.484in.	018-267A
8	283 / 4.6L	57-62			3.875in.	3in.	018-283
8	283 / 4.6L	63-65			3.875in.	3in.	018-283A
8	283 / 4.6L	66-67			3.875in.	3in.	018-283B
8	301 / 4.9L	80-80	T	Turbo	4in.	3in.	069-301B
8	302 / 5.0L	67-67	290HP	Muscle Car Application	4in.	3in.	018-302
8	302 / 5.0L	68-69	290HP	Muscle Car Application	4in.	3in.	018-302A
8	305 / 5.0L	81-85			3.736in.	3.484in.	018-305A-SP
8	305 / 5.0L	76-80	G, H, Q, U		3.736in.	3.484in.	018-305
8	305 / 5.0L	81-81	H		3.736in.	3.484in.	018-305A
8	305 / 5.0L	82-83	H		3.736in.	3.484in.	018-305A
8	305 / 5.0L	82-82	S, 7	TBI	3.736in.	3.484in.	018-305BA
8	305 / 5.0L	84-85	G, H	W/ 4V	3.736in.	3.484in.	018-305B
8	305 / 5.0L	85-85	F	TPI	3.736in.	3.484in.	018-305C
8	305 / 5.0L	86-86	F	TPI	3.736in.	3.484in.	018-305CA
8	305 / 5.0L	86-86	G, H	W/ 4V	3.736in.	3.484in.	018-305D
8	305 / 5.0L	87-91	E, G, H	TBI W/ Auto Trans.	3.736in.	3.484in.	018-305G
8	305 / 5.0L	87-91	F	TPI W/ Manual Trans.	3.736in.	3.484in.	018-305F
8	305 / 5.0L	87-88	G, H	W/ 4V	3.736in.	3.484in.	018-305E
8	305 / 5.0L	92-93	E	TBI W/ Auto Trans.	3.736in.	3.484in.	018-305H
8	305 / 5.0L	92-93	F	TPI W/ Manual Trans.	3.736in.	3.484in.	018-305I
8	305 / 5.0L	93-93	E	TBI W/ Auto Trans. W/ 2nd Design Oil Pump	3.736in.	3.484in.	018-305J
8	305 / 5.0L	93-95	F	TPI W/ Manual Transmission W/ 2nd Design Oil Pump	3.736in.	3.484in.	018-305K
8	307 / 5.0L	68-73			3.875in.	3.25in.	018-307

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CHEVROLET <i>Continued</i>							
8	307 / 5.0L	86-88	Y	Oldsmobile Engine	3.875in.	3.25in.	060-307A
8	307 / 5.0L	89-90	Y	Oldsmobile Engine	3.875in.	3.25in.	060-307A
8	327 / 5.4L	62-63	Corvette	Muscle Car Application	4in.	3.25in.	018-327E
8	327 / 5.4L	64-65	except Nova	Muscle Car Application	4in.	3.25in.	018-327F
8	327 / 5.4L	64-65	Nova only	Muscle Car Application	4in.	3.25in.	018-327G
8	327 / 5.4L	65-66	except Nova	Muscle Car Application	4in.	3.25in.	018-327H
8	327 / 5.4L	65-66	Nova only	Muscle Car Application	4in.	3.25in.	018-327I
8	327 / 5.4L	67-67	except Nova	Muscle Car Application	4in.	3.25in.	018-327J
8	327 / 5.4L	67-67	Nova only	Muscle Car Application	4in.	3.25in.	018-327K
8	327 / 5.4L	64-66		Std / Powerglide Trans. W/O Tapped Nose	4in.	3.25in.	018-327
8	327 / 5.4L	65-66		Turbo-Hydramatic Trans. W/O Tapped Nose	4in.	3.25in.	018-327A
8	327 / 5.4L	65-66		Small Journal	4in.	3.25in.	018-327A-SP
8	327 / 5.4L	67-67		Std / Powerglide Trans. W/O Tapped Nose	4in.	3.25in.	018-327B
8	327 / 5.4L	67-67		Turbo-Hydramatic Trans. W/O Tapped Nose	4in.	3.25in.	018-327C
8	327 / 5.4L	68-69			4in.	3.25in.	018-327D
8	346 / 5.7L	97-98	G	LS1 Corvette only, 7/8" crank flange width	3.897in.	3.622in.	018-346D
8	346 / 5.7L	98-98	G	LS1 exc. Corvette, 7/8" crank flange width	3.897in.	3.622in.	018-346
8	346 / 5.7L	99-00	G	LS1 exc. Corvette, 7/8" crank flange width	3.897in.	3.622in.	018-346A
8	346 / 5.7L	01-01	G	LS1 exc. Corvette, 7/8" crank flange width	3.897in.	3.622in.	018-346B
8	346 / 5.7L	01-01	G	LS1 Corvette only, 7/8" crank flange width	3.897in.	3.622in.	018-346E
8	346 / 5.7L	01-01	G	LS1 Corvette only, 7/8" crank flange width	3.897in.	3.622in.	018-346F
8	346 / 5.7L	02-02	G	LS1 exc. Corvette, 7/8" crank flange width	3.897in.	3.622in.	018-346C
8	346 / 5.7L	02-02	G	LS1 Corvette only, 7/8" crank flange width	3.897in.	3.622in.	018-346G
8	346 / 5.7L	03-03	G	LS1 Corvette only 1st design	3.897in.	3.622in.	018-346H
8	346 / 5.7L	03-04	G	LS1 Corvette only 2nd design	3.897in.	3.622in.	018-346I
8	348 / 5.7L	58-61			4.125in.	3.25in.	018-348
8	350 / 5.7L	67-70	7	Flat Top Piston	4in.	3.484in.	018-350FT-SP
8	350 / 5.7L	67-86			4in.	3.48in.	018-350SP
8	350 / 5.7L	69-70		Muscle Car Application	4in.	3.48in.	018-350Q
8	350 / 5.7L	69-70		Muscle Car Application	4in.	3.48in.	018-350S
8	350 / 5.7L	71-73		Muscle Car Application	4in.	3.48in.	018-350R
8	350 / 5.7L	80-85			4in.	3.484in.	018-350B-SP
8	350 / 5.7L	95-97	P	LT1 exc. Corvette	4in.	3.48in.	018-350T
8	350 / 5.7L	95-97	P	LT1 Corvette only	4in.	3.48in.	018-350U
8	350 / 5.7L	69-70	L		4in.	3.484in.	018-350
8	350 / 5.7L	71-80	L		4in.	3.484in.	018-350A
8	350 / 5.7L	80-81	N	Diesel W/ External EGR	4.057in.	3.385in.	060-350DA
8	350 / 5.7L	81-85	L, 6	W/ 4V	4in.	3.484in.	018-350B
8	350 / 5.7L	81-85	N	Diesel W/ Internal EGR	4.057in.	3.385in.	060-350DB
8	350 / 5.7L	85-85	8	TPI Corvette (Inc. Dbl Roll. Timing)	4in.	3.484in.	018-350K
8	350 / 5.7L	86-88	6	W/ 4V	4in.	3.484in.	018-350C
8	350 / 5.7L	86-86	8	TPI Corvette Cast Iron Hd. (Inc. Dbl Roll. Timing)	4in.	3.484in.	018-350L
8	350 / 5.7L	86-86	8	TPI Corvette Alum Hd. (Inc. Dbl Roll. Timing)	4in.	3.484in.	018-350M
8	350 / 5.7L	87-93	8	TPI Camaro (Inc. Dbl Roll. Timing & 1st Design O/P)	4in.	3.484in.	018-350D
8	350 / 5.7L	87-91	8	TPI Corvette Alum Hd (Dbl Roll. Timing & 1st Design O/P)	4in.	3.484in.	018-350N

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CHEVROLET <i>Continued</i>							
8	350 / 5.7L	89-91	7	TBI	4in.	3.484in.	018-350E
8	350 / 5.7L	90-92	8	TPI Camaro and Corvette (Exc. ZR1)	4in.	3.484in.	018-350D
8	350 / 5.7L	92-93	7	TBI W 1st Design Oil Pump 5/8 Inlet	4in.	3.484in.	018-350F
8	350 / 5.7L	92-93	7	TBI W/ 2nd Design Oil Pump 3/4 Inlet	4in.	3.484in.	018-350G
8	350 / 5.7L	92-92	P	Corvette TPI (LT1 Engine)	4in.	3.48in.	018-350O
8	350 / 5.7L	93-93	8	TPI Camaro (Inc. Dbl Roll. Timing & 2nd Design O/P)	4in.	3.484in.	018-350J
8	350 / 5.7L	93-94	P	Caprice Clas./ Impala SS/ Camaro W/ 1st Design Oil Pump	4in.	3.484in.	018-350H
8	350 / 5.7L	93-95	P	Corvette TPI (LT1 Engine) 2nd Design Oil Pump	4in.	3.48in.	018-350P
8	350 / 5.7L	94-97	P	Caprice Clas./ Impala SS/ Camaro W/2nd Design Oil Pump	4in.	3.484in.	018-350I
8	396 / 6.5L	67-69			4.094in.	3.766in.	018-396A-SP
8	396 / 6.5L	68-69	**396-375HP**	Muscle Car Application	4.094in.	3.766in.	018-396B
8	396 / 6.5L	65-66			4.094in.	3.766in.	018-396
8	396 / 6.5L	67-69			4.094in.	3.766in.	018-396A
8	400 / 6.6L	70-76			4.125in.	3.75in.	018-400-SP
8	400 / 6.6L	70-76	R, U	Small Block	4.125in.	3.75in.	018-400
8	402 / 6.6L	70-70	**402-375HP**	Muscle Car Application	4.125in.	3.766in.	018-402A
8	402 / 6.6L	70-72		Big Block	4.125in.	3.766in.	018-402
8	409 / 6.7L	63-65	425HP	Muscle Car Application, check lifter type	4.313in.	3.5in.	018-409A
8	409 / 6.7L	61-64			4.313in.	3.5in.	018-409
8	427 / 7.0L	66-66			4.25in.	3.766in.	018-427C
8	427 / 7.0L	67-69	425hp	Muscle Car Application	4.25in.	3.766in.	018-427A
8	427 / 7.0L	68-68	430hp	Muscle Car Application	4.25in.	3.766in.	018-427B
8	427 / 7.0L	67-69			4.25in.	3.766in.	018-427
8	454 / 7.4L	70-70	450hp	Muscle Car Application	4.25in.	4in.	018-454A
8	454 / 7.4L	71-71	425hp	Muscle Car Application	4.25in.	4in.	018-454B
8	454 / 7.4L	70-72			4.25in.	4in.	018-454
8	454 / 7.4L	70-76			4.25in.	4in.	018-454-SP
8	454 / 7.4L	73-75			4.25in.	4in.	018-454
8	454 / 7.4L	76-76	S		4.25in.	4in.	018-454
CHEVROLET/ GMC TRUCK							
4	97 / 1.6L	96-97	6	SOHC 16V SFI	75mm	90mm	019-097
4	110 / 1.8L	72-75	G180Z	SOHC LUV (Isuzu motor)	84mm	82mm	019-110
4	110 / 1.8L	76-84		SOHC LUV (Isuzu motor)	84mm	82mm	019-110A
4	119 / 1.9L	82-82	A	OHC Isuzu Engine	87mm	82mm	045-119
4	119 / 1.9L	83-85	A	OHC Isuzu Engine	87mm	82mm	045-119A
4	121 / 2.0L	83-83	Y	SOHC 2BC S10	3.5in.	3.15in.	019-121
4	121 / 2.0L	84-84	Y	SOHC 2BC S10	3.5in.	3.15in.	019-121A
4	134 / 2.2L	98-01	4	Roller Rocker	89mm	88mm	019-134A
4	134 / 2.2L	00-04	5	OHV 8V Roller Rocker flex fuel	89mm	88mm	019-134C
4	134 / 2.2L	02-02	4	Roller Rocker	89mm	88mm	019-134B
4	134 / 2.2L	94-97	4	Roller Cam	89mm	88mm	019-134
4	151 / 2.5L	85-86	E	TBI Automatic Trans.	4in.	3in.	069-151G
4	151 / 2.5L	85-86	E	TBI Standard Trans.	4in.	3in.	069-151H
4	151 / 2.5L	87-90	E	TBI Automatic Trans. W/O Balancer Gear	4in.	3in.	069-151PA
4	151 / 2.5L	87-90	E	TBI Standard Trans. W/O Balancer Gear	4in.	3in.	069-151QA
4	151 / 2.5L	91-92	A	TBI Automatic Trans. W/ Direct Magnetic Ignition	4in.	3in.	069-151ZF

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CHEVROLET/ GMC TRUCK <i>Continued</i>							
4	151 / 2.5L	91-92	A	TBI Standard Trans. W/ Direct Magnetic Ignition	4in.	3in.	069-151ZG
4	151 / 2.5L	91-92	E	TBI Automatic Trans. W/ Direct Magnetic Ignition	4in.	3in.	069-151ZH
4	151 / 2.5L	91-92	E	TBI Standard Trans. W/ Direct Magnetic Ignition	4in.	3in.	069-151ZI
4	171 / 2.8L	04-06	8	DOHC 16V LK5 VORTEC Colorado	93mm	102mm	019-171
6	173 / 2.8L	82-84	B	W/ 2V	89mm	76mm	018-173
6	173 / 2.8L	85-85	B	W/ 2V Main Journal Dia. 2.495	89mm	76mm	018-173D
6	173 / 2.8L	85-85	B	W/ 2V Main Journal Dia. 2.648	89mm	76mm	018-173F
6	173 / 2.8L	86-87	R	TBI	89mm	76mm	018-173E
6	173 / 2.8L	87-89	R	TBI	89mm	76mm	019-173
6	173 / 2.8L	90-90	R	TBI, 1st Design Oil Pump	89mm	76mm	019-173
6	173 / 2.8L	90-90	R	TBI, 2nd Design Oil Pump	89mm	76mm	019-173A
6	173 / 2.8L	91-93	R	TBI	89mm	76mm	019-173B
6	191 / 3.1L	90-90	D	Lumina APV Van (TBI) 1st Design Oil Pump	89mm	84mm	018-191A
6	191 / 3.1L	90-95	D	Lumina APV Van (TBI) 2nd Design Oil Pump	89mm	84mm	018-191C
6	200 / 3.3L	78-79	M		3.5in.	3.484in.	018-200
6	207 / 3.4L	00-03	E	OHV	3.622in.	3.307in.	018-207E
6	207 / 3.4L	04-05	E,F	OHV 12V	3.622in.	3.307in.	018-207G
6	207 / 3.4L	96-99	E	OHV	3.622in.	3.307in.	018-207D
6	207 / 3.4L	96-99	E	SOHC	3.622in.	3.307in.	019-207
5	212 / 3.5L	04-06	6	DOHC 5cyl. L52 Canyon, Colorado	3.663in.	4.015in.	019-212
6	229 / 3.8L	80-84	K, 9		3.736in.	3.484in.	018-229
6	230 / 3.8L	65-67			3.875in.	3.25in.	018-230
6	230 / 3.8L	68-69			3.875in.	3.25in.	018-230A
6	231 / 3.8L	78-78	A, 2	Even Fire Engine	3.8in.	3.4in.	011-231A
6	231 / 3.8L	79-81	A, 2		3.8in.	3.4in.	011-231C
6	231 / 3.8L	82-82	A	To 11/30/82	3.8in.	3.4in.	011-231F
6	231 / 3.8L	82-83	A	From 12/1/82	3.8in.	3.4in.	011-231J
6	231 / 3.8L	84-84	A	Aluminum Int. Manifold	3.8in.	3.4in.	011-231H
6	231 / 3.8L	84-84	A	Cast Iron Int. Manifold	3.8in.	3.4in.	011-231J
6	231 / 3.8L	92-92	L	3800 TPI	3.8in.	3.4in.	011-231T
6	231 / 3.8L	93-93	L	3800 TPI	3.8in.	4in.	011-231V
6	231 / 3.8L	94-94	L	3800 TPI	3.8in.	4in.	011-231W
6	250 / 4.1L	71-71			3.875in.	3.531in.	018-250
6	250 / 4.1L	72-72	Q	OHV	3.875in.	3.531in.	018-250C
6	250 / 4.1L	72-72	Q	OHV	3.875in.	3.531in.	019-250
6	250 / 4.1L	73-76		Exc. Integral Head	3.875in.	3.531in.	018-250
6	250 / 4.1L	75-76	D	Light Duty W/ Integral Head	3.875in.	3.531in.	019-250A
6	250 / 4.1L	75-76	D	Heavy Duty W/ Integral Head	3.875in.	3.531in.	019-250C
6	250 / 4.1L	77-78	D	Light Duty W/ Integral Head	3.875in.	3.531in.	018-250B
6	250 / 4.1L	77-78	D	Heavy Duty W/ Integral Head	3.875in.	3.531in.	019-250B
6	250 / 4.1L	79-79	D	Light Duty W/ Integral Head	3.875in.	3.531in.	019-250D
6	250 / 4.1L	80-80	D	Light Duty	3.875in.	3.531in.	019-250E
6	250 / 4.1L	81-82	D	Light Duty W/ Federal Emissions	3.875in.	3.531in.	019-250F
6	250 / 4.1L	83-84	D	Light Duty	3.875in.	3.531in.	019-250G
6	256 / 4.2L	02-03	S	DOHC 24V Vortec4200	3.663in.	4.015in.	019-256
6	256 / 4.2L	04-04	S	DOHC 24V Vortec4200 1st design	3.663in.	4.015in.	019-256A
6	256 / 4.2L	04-04	S	DOHC 24V Vortec4200 2nd design	3.663in.	4.015in.	019-256B
6	256 / 4.2L	05-05	S	DOHC 24V Vortec4200 1st design	3.663in.	4.015in.	019-256C

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CHEVROLET/ GMC TRUCK <i>Continued</i>							
6	256 / 4.2L	05-05	S	DOHC 24V Vortec4200 2nd design	3.663in.	4.015in.	019-256D
6	261 / 4.3L	59-62	X		3.75in.	3.484in.	019-261
6	262 / 4.3L	86-92	N/Z		4in.	3.484in.	019-262A-SP
6	262 / 4.3L	91-93	ZR9/Z79	Turbo w/o 'T' on frnt of blk & 5/8" oil pump pickup	4in.	3.484in.	019-262K
6	262 / 4.3L	91-93	ZR9/Z79	Turbo w/ 'T' on frnt of blk & 5/8" oil pump pickup	4in.	3.484in.	019-262M
6	262 / 4.3L	93-93	ZR9/Z79	Turbo w/o 'T' on frnt of blk & 3/4" oil pump pickup	4in.	3.484in.	019-262L
6	262 / 4.3L	93-93	ZR9/Z79	Turbo w/ 'T' on frnt of blk & 3/4" oil pump pickup	4in.	3.484in.	019-262N
6	262 / 4.3L	99-02	W, X	w/o 'T' on frnt of blk	4in.	3in.	019-262O
6	262 / 4.3L	99-02	W, X	w/ 'T' on frnt of blk	4in.	3in.	019-262P
6	262 / 4.3L	03-05	X	w/o 'T' on frnt of blk	4in.	3in.	019-262Q
6	262 / 4.3L	03-05	X	w/ 'T' on frnt of blk	4in.	3in.	019-262R
6	262 / 4.3L	85-85	N	W/ 4V	4in.	3.484in.	018-262
6	262 / 4.3L	86-86	N, Z	W/ 4V & TBI Except Astro & Safari	4in.	3.484in.	018-262A
6	262 / 4.3L	86-86	N, Z	W/ 4V & TBI Astro & Safari Only	4in.	3.484in.	019-262
6	262 / 4.3L	87-89	Z	TBI	4in.	3.484in.	018-262B
6	262 / 4.3L	90-92	B	TBI W/O Balance Shaft	4in.	3.484in.	019-262EA
6	262 / 4.3L	90-92	Z	TBI	4in.	3.484in.	019-262A
6	262 / 4.3L	92-93	W	CPI (Exc. Split Cam Brgs.)	4in.	3.484in.	019-262B
6	262 / 4.3L	92-93	W	CPI W/ 2nd Design Oil Pump (Exc. Split Cam Brg.)	4in.	3.484in.	019-262C
6	262 / 4.3L	93-93	Z	TBI W/ 1st Design Oil Pump (Exc. Split Cam Brgs.)	4in.	3.484in.	019-262E
6	262 / 4.3L	93-93	Z	TBI W/ 2nd Design Oil Pump (Exc. Split Cam Brg.)	4in.	3.484in.	019-262F
6	262 / 4.3L	94-95	W	CPI (Exc. Split Cam Brg.)	4in.	3.484in.	019-262D
6	262 / 4.3L	94-94	Z	TBI (Exc. Split Cam Brg.)	4in.	3.484in.	019-262G
6	262 / 4.3L	94-95	Z	TBI (Exc. Split Cam Brg.)	4in.	3.484in.	019-262H
6	262 / 4.3L	96-98	W, X	MFI	4in.	3.484in.	019-262J
6	262 / 4.3L	96-98	W, X		4in.	3in.	019-262J-SP
8	267 / 4.4L	79-80	J		3.5in.	3.484in.	018-267
8	267 / 4.4L	81-82	J		3.5in.	3.484in.	018-267A
6	270 / 4.4L	40-51		1-300	3.781in.	4in.	019-270
6	270 / 4.4L	40-51		1-500	3.781in.	4in.	019-270A
8	283 / 4.6L	57-62			3.875in.	3in.	018-283
8	283 / 4.6L	63-63			3.875in.	3in.	019-283A
8	283 / 4.6L	64-66			3.875in.	3in.	019-283
8	283 / 4.6L	67-67			3.875in.	3in.	018-283B
6	292 / 4.8L	63-66			3.875in.	4.125in.	019-292
6	292 / 4.8L	67-70			3.875in.	4.125in.	019-292A
6	292 / 4.8L	71-85	T	24 Bolt Oil Pan Only	3.875in.	4.125in.	019-292B
6	292 / 4.8L	80-80	T	16 Bolt Oil Pan Only	3.875in.	4.125in.	019-292C
6	292 / 4.8L	86-89	T		3.875in.	4.125in.	019-292D
8	293 / 4.8L	99-01	V	OHV VIN V	3.78in.	3.268in.	019-293
8	293 / 4.8L	02-04	V	OHV VIN V	3.78in.	3.268in.	019-293A
8	293 / 4.8L	05-06	V	OHV VIN V C series, Tahoe, Yukon	3.78in.	3.268in.	019-293B
6	305 / 5.0L	66-66	A	OHV 12V V6 HD Gas	4.25in.	3.58in.	019-305F
6	305 / 5.0L	60-69			4.25in.	3.484in.	019-305C
8	305 / 5.0L	76-80	F,G,H,Q,U		3.736in.	3.484in.	018-305
8	305 / 5.0L	81-81	F, G, H		3.736in.	3.484in.	018-305A
8	305 / 5.0L	82-85	F, H		3.736in.	3.484in.	018-305A
8	305 / 5.0L	86-86	F, H	W/One Piece Rear Main Seal and Oil Pan Gasket	3.736in.	3.484in.	019-305

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CHEVROLET/ GMC TRUCK <i>Continued</i>							
8	305 / 5.0L	87-92	G, H	TBI	3.736in.	3.484in.	018-305E
8	305 / 5.0L	93-94	H	W/ 1st Design Oil Pump (5/8 Inlet)	3.736in.	3.484in.	019-305A
8	305 / 5.0L	93-94	H	W/ 2nd Design Oil Pump (3/4 Inlet)	3.736in.	3.578in.	019-305B
8	305 / 5.0L	95-95	F	MFI 2nd Design Oil Pump (3/4 Inlet)	3.736in.	3.25in.	019-305E
8	305 / 5.0L	96-02	M	MFI (Vortec)	3.736in.	3.484in.	019-305D
8	307 / 5.0L	68-73			3.875in.	3.25in.	018-307
8	325 / 5.3L	99-01	T,Z	OHV 16V LM7 Vortec iron block also flex fuel	3.78in.	3.622in.	019-325
8	325 / 5.3L	02-04	T,Z,P	OHV 16V LM7/LM4 Vortec iron block also flex fuel-check cam brgs.	3.78in.	3.622in.	019-325A
8	325 / 5.3L	04-07	T,Z	OHV 16V LM7 Vortec iron block Envoy, Trailblazer, SSR	3.78in.	3.622in.	019-325C
8	325 / 5.3L	05-05	M	OHV 16V LM4 Vortec iron block Envoy, Trailblazer, SSR	3.78in.	3.622in.	019-325B
8	325 / 5.3L	06-06	M	OHV 16V LM4 Vortec iron block Envoy, Trailblazer, SSR	3.78in.	3.622in.	019-325D
8	327 / 5.4L	65-66		Std / Powerglide Trans. W/O Tapped Nose	4in.	3.25in.	019-327
8	327 / 5.4L	65-66		Turbo-Hydramatic Trans. W/O Tapped Nose	4in.	3.25in.	019-327A
8	327 / 5.4L	67-67		Std / Powerglide Trans. W/O Tapped Nose	4in.	3.25in.	019-327B
8	327 / 5.4L	67-67		Turbo-Hydramatic Trans. W/O Tapped Nose	4in.	3.25in.	019-327C
8	327 / 5.4L	68-69		Light Duty Models	4in.	3.484in.	019-327D
8	350 / 5.7L	87-95			4in.	3.48in.	019-350A-SP
8	350 / 5.7L	00-02	R	W/.275x.285 width TIMING	4in.	3.484in.	019-350E
8	350 / 5.7L	00-02	R	W/.400 width TIMING SET	4in.	3.484in.	019-350F
8	350 / 5.7L	67-70		Performance RV Kit (Flat-Top Pistons)	4in.	3.484in.	019-350C
8	350 / 5.7L	69-70	L		4in.	3.484in.	018-350
8	350 / 5.7L	71-80	L		4in.	3.484in.	018-350A
8	350 / 5.7L	78-81	N	Diesel W/ External EGR	4.057in.	3.385in.	060-350DA
8	350 / 5.7L	81-85	E, K, L, M, P		4in.	3.484in.	018-350B
8	350 / 5.7L	81-84	N	Diesel W/ Internal EGR	4.057in.	3.385in.	060-350DB
8	350 / 5.7L	86-88	L, M	W/ 4V	4in.	3.484in.	019-350
8	350 / 5.7L	87-93	K	TBI W/ 1st Design Oil Pump	4in.	3.484in.	019-350A
8	350 / 5.7L	93-95	K	TBI W/ 2nd Design Oil Pump	4in.	3.484in.	019-350B
8	350 / 5.7L	96-98	R		4in.	3.484in.	019-350D
8	350 / 5.7L	96-98	R		4in.	3.484in.	019-350D-SP
6	351 / 5.7L	60-65	D	Check oil pump	4.563in.	3.58in.	019-351
6	351 / 5.7L	66-72	C	Check oil pump	4.563in.	3.58in.	019-351B
6	351 / 5.7L	66-69	E,M	Check oil pump	4.563in.	3.58in.	019-351A
8	364 / 6.0L	99-01	U	16V OHV Vortec	4in.	3.622in.	019-364
8	364 / 6.0L	02-03	U,N	16V OHV Vortec	4in.	3.622in.	019-364A
8	364 / 6.0L	04-05	N	16V OHV Vortec HO	4in.	3.622in.	019-364C
8	364 / 6.0L	04-05	U	16V OHV Vortec	4in.	3.622in.	019-364B
8	366 / 6.0L	66-66	B		3.937in.	3.75in.	019-366G
8	366 / 6.0L	67-68	B		3.937in.	3.75in.	019-366H
8	366 / 6.0L	96-96	P	1st Design 10 bolt Fron Cover	3.937in.	3.75in.	019-366I
8	366 / 6.0L	96-98	P	2nd Design 6 bolt Fron Cover	3.937in.	3.75in.	019-366J
8	366 / 6.0L	69-72	B		3.937in.	3.75in.	019-366
8	366 / 6.0L	73-85	B		3.937in.	3.75in.	019-366A
8	366 / 6.0L	85-85	B	2nd Design W/4V (Exc. H5D Emissions)	3.937in.	3.75in.	019-366B

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CHEVROLET/ GMC TRUCK <i>Continued</i>							
8	366 / 6.0L	85-86	B	H5D	3.937in.	3.75in.	019-366C
8	366 / 6.0L	87-91	B	TBI W/4V	3.937in.	3.75in.	019-366D
8	366 / 6.0L	91-95	B	TBI MarkV W/ Federal Emissions	3.937in.	3.75in.	019-366E
8	366 / 6.0L	91-95	B	TBI MarkV W/O Federal Emissions	3.937in.	3.75in.	019-366F
8	379 / 6.2L	89-93	J	Non-Turbo Diesel	3.563in.	3.859in.	019-381B-SP
8	379 / 6.2L	82-91	C	Diesel W/ Split Rear Main Seal	3.563in.	3.859in.	019-381
8	379 / 6.2L	82-91	C,J	No Pin Bushings	3.563in.	3.859in.	019-381A-SP
8	379 / 6.2L	82-91	J	Diesel W/ Split Rear Main Seal	3.563in.	3.859in.	019-381A
8	379 / 6.2L	92-94	C		3.563in.	3.859in.	019-381C
8	379 / 6.2L	92-93	J	Diesel W/ 1-Piece Rear Main Seal	3.563in.	3.859in.	019-381B
8	395 / 6.5L	92-93	F	Diesel	4.055in.	3.819in.	019-395-SP
8	395 / 6.5L	92-95	P, Y	Diesel	4.055in.	3.819in.	019-395
8	395 / 6.5L	94-97	F,S	High Output / Diesel & Turbo-Diesel	4.055in.	3.819in.	019-395D
8	395 / 6.5L	94-96	P,F	Diesel	4.055in.	3.819in.	019-395A-SP
8	395 / 6.5L	97-02	P,F, S,7	Diesel	4.055in.	3.819in.	019-395D-SP
8	395 / 6.5L	92-93	F	Turbo Diesel / High- Output	4.055in.	3.819in.	019-395E
8	396 / 6.5L	66-66			4.094in.	3.766in.	018-396
8	396 / 6.5L	67-69			4.094in.	3.766in.	018-396A
8	400 / 6.6L	70-80	M, R, U, X	Small Block	4.125in.	3.75in.	018-400
8	402 / 6.6L	70-72		Big Block	4.125in.	3.766in.	018-402
8	403 / 6.6l	01-03	1	Duramax 32V	103mm	99mm	019-403-SP
8	427 / 7.0L	68-72			4.25in.	3.819in.	019-427
8	427 / 7.0L	73-73			4.25in.	3.766in.	019-427
8	427 / 7.0L	74-84			4.25in.	3.766in.	019-427A
8	427 / 7.0L	85-85			4.25in.	3.766in.	019-427B
8	427 / 7.0L	86-90			4.25in.	3.766in.	019-427C
8	427 / 7.0L	91-95		Medium Duty	4.25in.	3.766in.	019-427D
8	454 / 7.4L	99-00	J	Hyd. Roller	4.25in.	4in.	019-454I
8	454 / 7.4L	73-75			4.25in.	4in.	019-454
8	454 / 7.4L	76-79	S, Y		4.25in.	4in.	019-454
8	454 / 7.4L	80-84	S, W		4.25in.	4in.	019-454A
8	454 / 7.4L	85-85	N, W	W, Except H5D Emissions	4.25in.	4in.	019-454B
8	454 / 7.4L	85-87	N, W	W, H5D Emissions	4.25in.	4in.	019-454C
8	454 / 7.4L	87-90	N, W	W/4V & TBI	4.25in.	4in.	019-454D
8	454 / 7.4L	91-95	N	TBI (Mark V)	4.25in.	0in.	019-454E
8	454 / 7.4L	96-97	B,J	6 Bolt Front Cover (2nd Design)	4.25in.	4in.	019-454F
8	454 / 7.4L	96-96	B,J	10 Bolt Front Cover (1st Design)	4.25in.	4in.	019-454G
8	454 / 7.4L	97-99	J	Hyd. Roller	4.25in.	4in.	019-454H
8	496 / 8.1L	01-01	G	Hyd. Roller	4.25in.	4in.	019-496
8	496 / 8.1L	02-04	G,J	Hyd. Roller	4.37in.	4.37in.	019-496A
8	496 / 8.1L	05-06	G,J	Hyd. Roller	4.37in.	4.37in.	019-496B
CHRYSLER							
4	86 / 1.4L	79-84	A, J, 2		74mm	82mm	022-086
4	90 / 1.5L	85-86	K	SOHC 8V	75.5mm	82mm	058-090
4	90 / 1.5L	86-88	K, P	SOHC 8V (2nd Design Timing)	75.5mm	82mm	058-090A
4	90 / 1.5L	88-89	K, P, X	SOHC 8V (2nd Design Rod Brgs.)	75.5mm	82mm	058-090B
4	90 / 1.5L	89-90	X	SOHC 8V MFI	75.5mm	82mm	058-090C
4	90 / 1.5L	91-94	A	SOHC 12V MFI	75.5mm	82mm	058-090E

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CHRYSLER <i>Continued</i>							
4	97 / 1.6L	83-86	A	OHV (Peugeot Eng.)	80.65mm	78mm	022-096
4	98 / 1.6L	89-89	Y	DOHC 4G61 Mits. Motor	82.3mm	90mm	058-097A
4	98 / 1.6L	90-92	Y	DOHC 4G61 Mits. Motor	82.3mm	90mm	058-097
4	98 / 1.6L	99-02	A16	DOHC 16V E-TEC Lanos	76.5mm	87.1mm	024-098
4	98 / 1.6L	79-80	K	SOHC 8V W/2V	76.9mm	86mm	022-097
4	98 / 1.6L	81-82	3	SOHC 8V W/2V To 3/1/82	76.9mm	86mm	022-097A
4	98 / 1.6L	82-82	3	SOHC 8V W/ 2V From 3/1/82	76.9mm	86mm	022-097B
4	98 / 1.6L	83-83	3	SOHC 8V W/2V	76.9mm	86mm	022-097C
4	98 / 1.6L	84-84	B	SOHC 8V W/2V (Auto Trans. Only)	76.9mm	86mm	022-097D
4	98 / 1.6L	89-90	Y	DOHC 16V MFI	82.3mm	75mm	058-097
4	105 / 1.7L	78-83	A, B	SOHC 8V W/2V Horizon & Omni	79.5mm	86mm	082-104A
4	107 / 1.8L	89-94	B, C, D, T	SOHC 8V MFI	80.6mm	86mm	058-107
4	110 / 1.8L	92-95	D	SOHC 16V MFI	81mm	89mm	058-112
4	111 / 1834cc	97-01	4G93	SOHC 16V MFI	81mm	75mm	058-112B
4	122 / 2.0L	89-92	G63B	G63B 8V SOHC	85mm	90mm	058-122P
4	122 / 2.0L	93-94	4G63	4G63 16V SOHC LASER/TALON	85mm	88mm	058-122Q
4	122 / 2.0L	95-95	A588/A420	A588/A420 16V DOHC VIN Y & B NEON	87.5mm	88mm	022-122E
4	122 / 2.0L	96-99	A588/A420	A588/A420 16V DOHC NEON	87.5mm	83mm	022-122F
4	122 / 2.0L	00-01	ECB	ECB 16V SOHC NEON/STRATUS	87.5mm	83mm	022-122G
4	122 / 2.0L	01-04	C	SOHC 16V Neon	87.5mm	83mm	022-122H
4	122 / 2.0L	01-04	F	SOHC 16V Neon	87.5mm	83mm	022-122I
4	122 / 2.0L	74-75	U	SOHC 8V Colt	84mm	90mm	022-122A
4	122 / 2.0L	76-77	U	SOHC 8V Arrow & Colt	84mm	90mm	022-122
4	122 / 2.0L	78-78	U	SOHC 8V Arrow, Challenger, Colt (To 7/78)	84mm	90mm	022-122B
4	122 / 2.0L	78-79	U	SOHC 8V Arrow, Challenger, Colt (From 8/78)	84mm	90mm	022-122C
4	122 / 2.0L	84-84	D	SOHC 8V (Mech.)	85mm	88mm	058-122
4	122 / 2.0L	85-85	D	SOHC 8V (Hyd.)	85mm	88mm	058-122A
4	122 / 2.0L	85-87	D	SOHC 8V 2nd Design Aux. Brgs.	85mm	88mm	058-122B
4	122 / 2.0L	87-89	D, V	SOHC 8V 2nd Design Timing	85mm	88mm	058-122C
4	122 / 2.0L	89-92	U	DOHC 16V MFI Turbo	85mm	88mm	058-122F
4	122 / 2.0L	89-92	R	DOHC 16V MFI	85mm	88mm	058-122H
4	122 / 2.0L	89-91	V	SOHC 8V MFI	85mm	88mm	058-122D
4	122 / 2.0L	93-94	E	DOHC 16V MFI	85mm	88mm	058-122I
4	122 / 2.0L	93-95	F	DOHC 16V MFI Turbo	85mm	88mm	058-122G
4	122 / 2.0L	95-95	C, ECB	SOHC Neon	87.5mm	83mm	058-122J
4	122 / 2.0L	95-96	F	DOHC 16V MFI Turbo	85mm	88mm	058-122M
4	122 / 2.0L	95-98	Y, ECC, ECF	DOHC Neon	87.5mm	83mm	058-122K
4	122 / 2.0L	96-00	C, ECB	SOHC Avenger, Neon, Sebring, Talon	87.5mm	83mm	058-122N
4	134 / 2.2L	99-02	X22	DOHC 16V D-TEC Leganza	86.1mm	94.5mm	024-134
4	135 / 2.2L	81-85	B, C, D, F	SOHC W/2V, TBI, EFI	87.5mm	92mm	022-135
4	135 / 2.2L	84-85	E	SOHC Turbo MFI W/O Intercooler	87.5mm	92mm	022-135B
4	135 / 2.2L	85-85	C, D, F	SOHC W/2V, TBI, EFI (8 Bolt Flywheel)	87.5mm	92mm	022-135A
4	135 / 2.2L	86-87	C, F, 8	SOHC W/2V & TBI	87.5mm	92mm	022-135H
4	135 / 2.2L	86-86	E, L	SOHC Turbo MFI W/O Intercooler	87.5mm	92mm	022-135C
4	135 / 2.2L	87-87	E	SOHC Turbo MFI W/O Intercooler	87.5mm	92mm	022-135D
4	135 / 2.2L	88-91	A	DOHC Turbo	87.5mm	92mm	022-135L
4	135 / 2.2L	88-88	C, F, 8	SOHC W/2V & TBI	87.5mm	92mm	022-135I

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4	135 / 2.2L	88-88	E	SOHC Turbo MFI W/O Intercooler	87.5mm	92mm	022-135E
4	135 / 2.2L	89-94	C, F, 8	SOHC W/2V & TBI (Steel Valve Covers)	87.5mm	92mm	022-135J
4	135 / 2.2L	89-94	C, F, 8	SOHC W/2V & TBI (Alum. Valve Covers)	87.5mm	92mm	022-135K
4	135 / 2.2L	89-89	R	SOHC Turbo MFI	87.5mm	92mm	022-135F
4	135 / 2.2L	90-90	C, P	SOHC Turbo MFI	87.5mm	92mm	022-135G
4	135 / 2.2L	92-92	A	DOHC Turbo	87.5mm	92mm	022-135M
4	135 / 2.2L	93-94	A	DOHC Turbo	87.5mm	92mm	022-135N
4	143 / 2.4L	95-97	G	4G64 16V SOHC	86.5mm	100mm	058-143F
4	143 / 2.4L	01-05	G	4G64 16V SOHC Stratus, Sebring	86.5mm	100mm	058-143H
4	148 / 2.4L	01-01	B	DOHC 16V VIN B PT CRUISER	87.5mm	101mm	022-148C
4	148 / 2.4L	01-01	X	DOHC 16V VIN X SEBRING/STRATUS	87.5mm	101mm	022-148B
4	148 / 2.4L	02-04	B	DOHC 16V PT CRUISER	87.5mm	101mm	022-148E
4	148 / 2.4L	02-02	X	DOHC 16V VIN X SEBRING/STRATUS	87.5mm	101mm	022-148D
4	148 / 2.4L	04-06	G,S	DOHC 16V PT Cruiser, Neon Turbo	87.5mm	101mm	022-148G
4	148 / 2.4L	04-04	J, X	DOHC 16V PT Cruiser, Sebring, Stratus	87.5mm	101mm	022-148H
4	148 / 2.4L	05-06	B	DOHC 16V PT CRUISER	87.5mm	101mm	022-148F
4	148 / 2.4L	95-96	B, X	DOHC 16V Cirrus, Stratus, Breeze, Sebring	87.5mm	100mm	022-148
4	148 / 2.4L	97-00	B, X	DOHC 16V Cirrus, Stratus, Breeze, Sebring	87.5mm	100mm	022-148A
6	152 / 2.5L	99-99	H	6G73 24V SOHC VIN H CIRRUS/STRATUS	83.5mm	76mm	022-152A
6	152 / 2.5L	99-99	H	6G73 24V SOHC VIN H AVENGER/SEBRING	83.5mm	76mm	022-152B
6	152 / 2.5L	00-00	H,N	6G73 24V SOHC	83.5mm	76mm	022-152C
6	152 / 2.5L	95-98	H,N	SOHC 24V Cirrus, Sebring	83.5mm	76mm	022-152
4	153 / 2.5L	86-87	K, L	SOHC W/2V & TBI	87.5mm	104mm	022-153
4	153 / 2.5L	88-88	K, L	SOHC TBI & MFI	87.5mm	104mm	022-153A
4	153 / 2.5L	89-95	B, K	SOHC TBI & MFI (Steel Valve Covers)	87.5mm	104mm	022-153B
4	153 / 2.5L	89-92	J	SOHC Turbo	87.5mm	104mm	022-153D
4	153 / 2.5L	93-95	K, V	SOHC TBI & MFI (Alum. Valve Covers)	87.5mm	104mm	022-153C
4	156 / 2.6L	80-83	F, G, 7	SOHC 8V RWD (Mech.)	91.1mm	98mm	058-156F
4	156 / 2.6L	81-83	F, G, 7	SOHC FWD	91.1mm	98mm	058-156G
4	156 / 2.6L	84-89	F	SOHC FWD W/ Bal. Shaft Elim. Kit	91.1mm	98mm	058-156I
4	156 / 2.6L	84-89	F, G, 7	SOHC FWD	91.1mm	98mm	058-156H
4	156 / 2.6L	84-89	H, N	SOHC MFI Turbo	91.1mm	98mm	058-156J
6	166 / 2.7L	98-00	R		3.386in.	3.091in.	022-166
6	166 / 2.7L	01-05	U,R	DOHC 24V Intrepid, Sebring, Stratus, Magnum	3.386in.	3.091in.	022-166A
6	170 / 2.8L	60-69		12V OHV	3.4in.	3.125in.	022-170
6	181 / 3.0L	01-05	H	SOHC 24V 6G72 Sebring, Stratus	91.1mm	76mm	058-181J
6	181 / 3.0L	87-89	3	SOHC 12V MFI	91.1mm	76mm	058-181
6	181 / 3.0L	90-92	S, 3	SOHC 12V MFI	91.1mm	76mm	058-181A
6	181 / 3.0L	91-92	J	DOHC 24V MFI Stealth	91.1mm	76mm	058-181C
6	181 / 3.0L	91-92	K	DOHC 24V Turbo Stealth R/T	91.1mm	76mm	058-181D
6	181 / 3.0L	93-98	3	SOHC 12V MFI	91.1mm	76mm	058-181B
6	181 / 3.0L	93-96	J	DOHC 24V MFI Stealth	91.1mm	76mm	058-181F
6	181 / 3.0L	93-96	K	DOHC 24V Turbo Stealth R/T	91.1mm	76mm	058-181E
6	195 / 3.2L	98-01	J	24V SOHC VIN J	92mm	81mm	022-195

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CHRYSLER <i>Continued</i>							
6	198 / 3.2L	70-74	B		3.4in.	3.189in.	022-198
6	201 / 3.3L	95-97	T	MFI OHV, Roller cam	93mm	81mm	022-201B
6	201 / 3.3L	01-04	R	12V OHV, Roller Cam, MPI	3.661in.	3.189in.	022-201D
6	201 / 3.3L	90-97	R, T	OHV 12V MFI	93mm	81mm	022-201
6	215 / 3.5L	98-02	G	24V SOHC VIN G	96mm	81mm	022-215B
6	215 / 3.5L	03-04	G, K, M, V	24V SOHC VIN G	96mm	81mm	022-215C
6	215 / 3.5L	93-94	F	SOHC MFI	96mm	81mm	022-215
6	215 / 3.5L	95-97	F	SOHC MFI	96mm	81mm	022-215A
6	225 / 3.7L	60-67	C	Auto. Trans.	3.4in.	4.125in.	022-225
6	225 / 3.7L	60-67	C	Std. Trans.	3.4in.	4.125in.	022-225A
6	225 / 3.7L	68-76	C	Auto. Trans. (Steel Crank)	3.4in.	4.125in.	022-225B
6	225 / 3.7L	68-76	C	Std. Trans. (Steel Crank)	3.4in.	4.125in.	022-225C
6	225 / 3.7L	77-78	C, D	Auto. Trans (Cast Crank)	3.4in.	4.125in.	022-225D
6	225 / 3.7L	77-78	C, D	Std. Trans (Cast Crank)	3.4in.	4.125in.	022-225E
6	225 / 3.7L	79-80	C, D	Auto Trans.	3.4in.	4.125in.	022-225F
6	225 / 3.7L	79-80	C, D	Std. Trans.	3.4in.	4.125in.	022-225G
6	225 / 3.7L	81-83	E, F, G, H, J	Auto. Trans.	3.4in.	4.125in.	022-225H
6	225 / 3.7L	81-83	E, F, G, H, J	Std. Trans.	3.4in.	4.125in.	022-225I
6	230 / 4.6L	46-51			3.25in.	4.625in.	022-230
6	231 / 3.8L	91-98	L	OHV 12V MFI	96mm	87mm	022-231
8	273 / 4.5L	65-67		OHV 16V	3.625in.	3.313in.	022-273
8	273 / 4.5L	68-69		OHV 16V	3.625in.	3.313in.	022-273A
8	318 / 5.2L	59-66		Polyspherical, Single rocker shaft OHV	3.91in.	3.313in.	022-318U
8	318 / 5.2L	59-66			3.91in.	3.313in.	022-318T
8	318 / 5.2L	68-73		4V Auto. Trans.	3.91in.	3.313in.	022-318B
8	318 / 5.2L	68-73		4V Std Trans.	3.91in.	3.313in.	022-318C
8	318 / 5.2L	68-73	G	2V Auto Trans.	3.91in.	3.313in.	022-318
8	318 / 5.2L	68-73	G	2V Std Trans.	3.91in.	3.313in.	022-318A
8	318 / 5.2L	74-76		4V Auto. Trans.	3.91in.	3.313in.	022-318F
8	318 / 5.2L	74-76		4V Std. Trans.	3.91in.	3.313in.	022-318G
8	318 / 5.2L	74-76	G	2V Auto. Trans.	3.91in.	3.313in.	022-318D
8	318 / 5.2L	74-76	G	2V Std. Trans.	3.91in.	3.313in.	022-318E
8	318 / 5.2L	77-78		4V Auto. Trans.	3.91in.	3.313in.	022-318J
8	318 / 5.2L	77-78		4V Std. Trans.	3.91in.	3.313in.	022-318K
8	318 / 5.2L	77-78	G	2V Auto. Trans.	3.91in.	3.313in.	022-318H
8	318 / 5.2L	77-78	G	2V Std. Trans.	3.91in.	3.313in.	022-318I
8	318 / 5.2L	79-89	G, K, L	2V Auto Trans.(Non-Roller)	3.91in.	3.313in.	022-318L
8	318 / 5.2L	79-89	G, K, L, P	2V Std. Trans. (Non-Roller)	3.91in.	3.313in.	022-318M
8	318 / 5.2L	79-89	M, N, R	4V/ EFI Auto. Trans. (Non-Roller)	3.91in.	3.313in.	022-318N
8	318 / 5.2L	79-89	M, N, R	4V/ EFI Std. Trans. (Non-Roller)	3.91in.	3.313in.	022-318O
8	318 / 5.2L	85-89	P, 4	2V Auto Trans. (Roller)	3.91in.	3.313in.	022-318P
8	318 / 5.2L	85-89	P, 4	2V Std. Trans. (Roller)	3.91in.	3.313in.	022-318Q
8	318 / 5.2L	85-89	S	4V/ EFI Auto Trans. (Roller)	3.91in.	3.313in.	022-318R
8	318 / 5.2L	85-89	S	4V/ EFI Std Trans. (Roller)	3.91in.	3.313in.	022-318S
8	340 / 5.6L	68-71	**275HP**	Muscle Car Application	4.04in.	3.313in.	022-340A
8	340 / 5.6L	68-73	H		4.04in.	3.313in.	022-340
8	345 / 5.7L	03-05	D	HEMI Engine, 300C, Magnum	3.917in.	3.58in.	022-345
8	360 / 5.9L	71-73	K	Auto. Trans.	4in.	3.578in.	022-360
8	360 / 5.9L	71-73	K	Std. Trans.	4in.	3.578in.	022-360A
8	360 / 5.9L	74-78	K	Auto. Trans.	4in.	3.578in.	022-360B
8	360 / 5.9L	74-78	K	Std. Trans.	4in.	3.578in.	022-360C
8	360 / 5.9L	74-75	L	Auto. Trans. (4V & HP only)	4in.	3.578in.	022-360F

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CHRYSLER <i>Continued</i>							
8	360 / 5.9L	74-75	L	Std. Trans. (4V & HP only)	4in.	3.578in.	022-360G
8	360 / 5.9L	79-81	K, L	Auto. Trans.	4in.	3.578in.	022-360D
8	360 / 5.9L	79-81	K, L	Std. Trans.	4in.	3.578in.	022-360E
8	383 / 6.2L	68-71	**335HP**	Muscle Car Application	4.25in.	3.375in.	022-383D
8	383 / 6.2L	68-71	L	W/ 2V (Auto. Trans. W/ Steel Crank)	4.25in.	3.375in.	022-383
8	383 / 6.2L	68-71	L	W/ 2V (Std. Trans. W/ Steel Crank)	4.25in.	3.375in.	022-383A
8	383 / 6.2L	68-71	N	W/ 4V (Auto. Trans. W/ Steel Crank)	4.25in.	3.375in.	022-383B
8	383 / 6.2L	68-71	N	W/ 4V (Std. Trans. W/ Steel Crank)	4.25in.	3.375in.	022-383C
8	383 / 6.3L	59-60		Single bolt cam	4.25in.	3.375in.	022-383E
8	383 / 6.3L	61-65		Single bolt cam	4.25in.	3.375in.	022-383F
8	400 / 6.6L	72-73	M	W/ 2V (W/ Cast Crank)	4.342in.	3.375in.	022-400C
8	400 / 6.6L	72-73	M	W/ 2V (Auto. Trans. W/ Steel Crank)	4.342in.	3.375in.	022-400D
8	400 / 6.6L	72-73	M	W/ 2V (Std. Trans. W/ Steel Crank)	4.342in.	3.375in.	022-400E
8	400 / 6.6L	72-73	P	W/ 4V (W/ Cast Crank)	4.342in.	3.375in.	022-400
8	400 / 6.6L	72-73	P	W/ 4V (Auto. Trans. W/ Steel Crank)	4.342in.	3.375in.	022-400A
8	400 / 6.6L	72-73	P	W/ 4V (Std. Trans. W/ Steel Crank)	4.342in.	3.375in.	022-400B
8	400 / 6.6L	74-78	M	W/ 2V (W/ Cast Crank)	4.342in.	3.375in.	022-400G
8	400 / 6.6L	74-78	M	W/ 2V (Auto. Trans. W/ Steel Crank)	4.342in.	3.375in.	022-400H
8	400 / 6.6L	74-78	M	W/ 2V (Std. Trans. W/ Steel Crank)	4.342in.	3.375in.	022-400I
8	400 / 6.6L	74-74	N, P	W/ 4V (W/ Cast Crank)	4.342in.	3.375in.	022-400J
8	400 / 6.6L	74-74	N, P	W/ 4V (Auto. Trans. W/ Steel Crank)	4.342in.	3.375in.	022-400K
8	400 / 6.6L	74-74	N, P	W/ 4V (Std. Trans. W/ Steel Crank)	4.342in.	3.375in.	022-400L
8	400 / 6.6L	75-78	N, P	W/ 4V (W/ Cast Crank)	4.342in.	3.375in.	022-400M
8	400 / 6.6L	75-78	N, P	W/ 4V (Auto. Trans. W/ Steel Crank)	4.342in.	3.375in.	022-400N
8	400 / 6.6L	75-78	N, P	W/ 4V (Std. Trans. W/ Steel Crank)	4.342in.	3.375in.	022-400O
8	413 / 6.8L	59-63			4.188in.	3.75in.	022-413A
8	413 / 6.8L	64-69			4.188in.	3.75in.	022-413
8	440 / 7.2L	70-72	**SIX PACK**	Muscle Car Application	4.32in.	3.75in.	022-440K
8	440 / 7.2L	68-71	T, U	Auto. Trans.	4.32in.	3.75in.	022-440
8	440 / 7.2L	68-71	T, U	Std. Trans.	4.32in.	3.75in.	022-440A
8	440 / 7.2L	70-71	V	W/ 3-2V Auto. Trans.	4.32in.	3.75in.	022-440G
8	440 / 7.2L	70-71	V	W/ 3-2V Std. Trans.	4.32in.	3.75in.	022-440H
8	440 / 7.2L	72-73	T, U	Auto. Trans.	4.32in.	3.75in.	022-440B
8	440 / 7.2L	72-73	T, U	Std. Trans.	4.32in.	3.75in.	022-440C
8	440 / 7.2L	72-72	V	W/ 3-2V Auto. Trans.	4.32in.	3.75in.	022-440I
8	440 / 7.2L	72-72	V	W/ 3-2V Std. Trans.	4.32in.	3.75in.	022-440J
8	440 / 7.2L	74-75	T, U	Auto. Trans. (Steel Crank)	4.32in.	3.75in.	022-440D
8	440 / 7.2L	74-75	T, U	Std. Trans. (Steel Crank)	4.32in.	3.75in.	022-440E
8	440 / 7.2L	74-78	T, U	Cast Crank	4.32in.	3.75in.	022-440F
DODGE TRUCK							
4	105 / 1.7L	82-83	A, B	SOHC 8V W/2V	79.5mm	86mm	082-104B
4	121 / 2.0L	79-81	MMC	SOHC 8V Mits. Motor	84mm	89.9mm	023-121
4	122 / 2.0L	79-80	U	SOHC 8V Arrow, D50	84mm	90mm	022-122C
4	122 / 2.0L	81-83	5	SOHC 8V Arrow, D50	84mm	90mm	022-122D
4	122 / 2.0L	83-84	D	SOHC 8V (Mech.)	85mm	88mm	058-122
4	122 / 2.0L	85-85	D	SOHC 8V (Hyd.)	85mm	88mm	058-122A

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DODGE TRUCK <i>Continued</i>							
4	122 / 2.0L	85-86	D	SOHC 8V 2nd Design Aux. Brgs.	85mm	88mm	058-122B
4	122 / 2.0L	87-89	D	SOHC 8V 2nd Design Timing	85mm	88mm	058-122C
4	135 / 2.2L	83-85	B, C, F	SOHC W/2V, TBI, EFI	87.5mm	92mm	022-135
4	135 / 2.2L	86-87	C, F, 8	SOHC W/2V & TBI	87.5mm	92mm	022-135H
4	135 / 2.2L	88-88	C, F, 8	SOHC W/2V & TBI	87.5mm	92mm	022-135I
4	143 / 2.4L	89-92	W	SOHC 8V MFI	86.5mm	100mm	058-143D
4	143 / 2.4L	93-94	G	SOHC 8V MFI	86.5mm	100mm	058-143E
4	146 / 4.6L	96-97	B	16V DOHC VIN B CARAVAN, VOYAGER	87.5mm	101mm	023-146
4	146 / 4.6L	98-00	B	16V DOHC VIN B CARAVAN, VOYAGER	87.5mm	101mm	023-146A
4	146 / 4.6L	01-01	B	16V DOHC VIN B CARAVAN, VOYAGER	87.5mm	101mm	023-146B
4	146 / 4.6L	01-03	B	16V DOHC VIN B CARAVAN, VOYAGER check gaskets	87.5mm	101mm	022-148G
4	146 / 4.6L	02-03	B	16V DOHC VIN B CARAVAN, VOYAGER	87.5mm	101mm	023-146C
4	152 / 2.5L	96-98	P	OHV	3.876in.	3.188in.	023-152
4	153 / 2.5L	86-87	K	SOHC W/2V & TBI	87.5mm	104mm	022-153
4	153 / 2.5L	88-88	K	SOHC TBI & MFI	87.5mm	104mm	022-153A
4	153 / 2.5L	89-95	G, K	SOHC TBI & MFI (Steel Valve Covers)	87.5mm	104mm	022-153B
4	153 / 2.5L	89-90	J	SOHC Turbo	87.5mm	104mm	022-153D
4	153 / 2.5L	93-95	G, K	SOHC TBI & MFI (Alum. Valve Covers)	87.5mm	104mm	022-153C
4	156 / 2.6L	79-84	W, 7	SOHC 8V RWD (Mech.)	91.1mm	98mm	058-156F
4	156 / 2.6L	84-87	F, G	SOHC FWD W/ Bal. Shaft Elim. Kit	91.1mm	98mm	058-156I
4	156 / 2.6L	84-87	F, G, 7	SOHC FWD	91.1mm	98mm	058-156H
4	156 / 2.6L	85-90	E	SOHC RWD	91.1mm	98mm	058-156K
4	156 / 2.6L	85-90	E	SOHC RWD W/ Balance Shaft Elim. Kit	91.1mm	98mm	058-156L
6	181 / 3.0L	99-00	3	12V SOHC VIN 3 (Mits motor)	91.1mm	76mm	058-181I
6	181 / 3.0L	87-89	3	SOHC 12V MFI	91.1mm	76mm	058-181
6	181 / 3.0L	90-92	S, 3	SOHC 12V MFI	91.1mm	76mm	058-181A
6	181 / 3.0L	93-98	3	SOHC 12V MFI	91.1mm	76mm	058-181B
6	201 / 3.3L	98-00	R	12V OHV, Roller Cam, MPI	3.661in.	3.189in.	022-201C
6	201 / 3.3L	01-04	R	12V OHV, Roller Cam, MPI	3.661in.	3.189in.	022-201D
6	201 / 3.3L	90-97	R	OHV 12V MFI	93mm	81mm	022-201
6	201 / 3.3L	95-96	J	OHV 12V Compressed Natural Gas	93mm	81mm	022-201A
6	218 / 3.5L	34-56		Flathead Truck/Industrial	3.25in.	3.313in.	023-218
6	218 / 3.5L	34-56			3.25in.	3.189in.	022-218
6	225 / 3.7L	02-03	K	12V SOHC VIN K DAKOTA, RAM PU	93mm	90.8mm	023-226
6	225 / 3.7L	04-05	K	12V SOHC VIN K DAKOTA, RAM PU	93mm	90.8mm	023-226A
6	225 / 3.7L	60-67	C	Auto. Trans.	3.4in.	4.125in.	022-225
6	225 / 3.7L	60-67	C	Std. Trans.	3.4in.	4.125in.	022-225A
6	225 / 3.7L	68-76	B, C	Auto. Trans. (Steel Crank)	3.4in.	4.125in.	022-225B
6	225 / 3.7L	68-76	B, C	Std. Trans. (Steel Crank)	3.4in.	4.125in.	022-225C
6	225 / 3.7L	77-78	B	Auto. Trans. (Cast Crank)	3.4in.	4.125in.	022-225D
6	225 / 3.7L	77-78	B	Std. Trans. (Cast Crank)	3.4in.	4.125in.	022-225E
6	225 / 3.7L	79-80	B	Auto Trans.	3.4in.	4.125in.	022-225F
6	225 / 3.7L	79-80	B	Std. Trans.	3.4in.	4.125in.	022-225G
6	225 / 3.7L	81-87	E, H	Auto. Trans.	3.4in.	4.125in.	022-225H
6	225 / 3.7L	81-87	E, H	Std. Trans.	3.4in.	4.125in.	022-225I
6	231 / 3.8L	99-99	L	12V OHV VIN L	3.78in.	3.425in.	023-231
6	231 / 3.8L	00-00	L	12V OHV VIN L	3.78in.	3.425in.	023-231A

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DODGE TRUCK <i>Continued</i>							
6	231 / 3.8L	01-03	L	12V OHV VIN L	3.78in.	3.425in.	023-231B
6	231 / 3.8L	04-05	L	12V OHV VIN L	3.78in.	3.425in.	023-231C
6	231 / 3.8L	91-98	L	OHV 12V MFI	96mm	87mm	022-231
6	239 / 3.9L	98-02	X	12V OHV VIN M & X (Check OE rings)	3.91in.	3.313in.	023-239G
6	239 / 3.9L	87-87	M	Non-Roller	3.91in.	3.313in.	023-239
6	239 / 3.9L	88-89	X	TBI Roller	3.91in.	3.313in.	023-239A
6	239 / 3.9L	90-90	X	TBI Roller (Std Trans. Use O.E. Crank Bush & Brg.)	3.91in.	3.313in.	023-239B
6	239 / 3.9L	91-91	X	TBI Roller (Std Trans. Use O.E. Crank Bush & Brg.)	3.91in.	3.313in.	023-239C
6	239 / 3.9L	92-93	X	MFI Magnum (Std Trans. Use O.E.Crank Bush&Brg.)	3.91in.	3.313in.	023-239D
6	239 / 3.9L	94-95	X	MFI Magnum (Std Trans. Use O.E.Crank Bush&Brg.)	3.91in.	3.313in.	023-239E
6	239 / 3.9L	96-98	X	MFI	3.91in.	3.313in.	023-239F
8	287 / 4.7L	99-03	N	16V SOHC VIN N	3.662in.	3.4in.	023-287
8	287 / 4.7L	04-06	N, J	16V SOHC VIN N,J w/o bearing locating tang	3.662in.	3.4in.	023-287A
8	287 / 4.7L	04-06	N, J	16V SOHC VIN N,J with bearing locating tang	3.662in.	3.4in.	023-287B
8	318 / 5.2L	98-01	Y	16V OHV (Check OE rings)	3.91in.	3.313in.	023-318L
8	318 / 5.2L	02-03	Y	16V OHV (Manual Trans,Check OE rings)	3.91in.	3.313in.	023-318M
8	318 / 5.2L	02-03	Y	16V OHV (Auto Trans,Check OE rings)	3.91in.	3.313in.	023-318N
8	318 / 5.2L	59-62			3.91in.	3.313in.	023-318I
8	318 / 5.2L	60-67		Heavy Duty	3.91in.	3.313in.	023-318J
8	318 / 5.2L	68-73	E	Auto Trans.	3.91in.	3.313in.	022-318
8	318 / 5.2L	68-73	E	Std Trans.	3.91in.	3.313in.	022-318A
8	318 / 5.2L	68-73	E	H.D. Auto. Trans.	3.91in.	3.313in.	022-318B
8	318 / 5.2L	68-73	E	H.D. Std Trans.	3.91in.	3.313in.	022-318C
8	318 / 5.2L	74-76	E	Auto. Trans.	3.91in.	3.313in.	022-318D
8	318 / 5.2L	74-76	E	Std. Trans.	3.91in.	3.313in.	022-318E
8	318 / 5.2L	74-76	E	H.D. Auto. Trans.	3.91in.	3.313in.	022-318F
8	318 / 5.2L	74-76	E	H.D. Std. Trans.	3.91in.	3.313in.	022-318G
8	318 / 5.2L	77-78	E	Auto. Trans.	3.91in.	3.313in.	022-318H
8	318 / 5.2L	77-78	E	Std. Trans.	3.91in.	3.313in.	022-318I
8	318 / 5.2L	77-78	E	H.D. Auto. Trans.	3.91in.	3.313in.	022-318J
8	318 / 5.2L	77-78	E	H.D. Std. Trans.	3.91in.	3.313in.	022-318K
8	318 / 5.2L	79-81	E, P	Auto. Trans.	3.91in.	3.313in.	023-318B
8	318 / 5.2L	79-81	E, P	Std. Trans.	3.91in.	3.313in.	023-318C
8	318 / 5.2L	79-81	E, R	H.D. Auto. Trans.	3.91in.	3.313in.	023-318
8	318 / 5.2L	79-81	E, R	H.D. Std. Trans.	3.91in.	3.313in.	023-318A
8	318 / 5.2L	82-87	R	H.D. Auto Trans.	3.91in.	3.313in.	022-318N
8	318 / 5.2L	82-87	R	H.D. Std. Trans.	3.91in.	3.313in.	022-318O
8	318 / 5.2L	82-87	T	Auto. Trans.	3.91in.	3.313in.	022-318L
8	318 / 5.2L	82-87	T	Std. Trans.	3.91in.	3.313in.	022-318M
8	318 / 5.2L	88-89	Y	TBI Auto. Trans. (Roller Lifters)	3.91in.	3.313in.	022-318P
8	318 / 5.2L	88-89	Y	TBI Std. Trans. (Roller Lifters)	3.91in.	3.313in.	022-318Q
8	318 / 5.2L	88-89	Y	TBI/ H.D. Auto. Trans. (Roller Lifters)	3.91in.	3.313in.	022-318R
8	318 / 5.2L	88-89	Y	TBI / H.D. Std. Trans. (Roller Lifters)	3.91in.	3.313in.	022-318S
8	318 / 5.2L	90-91	Y	Auto. Trans. Exc. Premium Eng. (Roller Lifters)	3.91in.	3.313in.	023-318D
8	318 / 5.2L	90-91	Y	Std. Trans. Exc. Premium Eng. (Roller Lifters)	3.91in.	3.313in.	023-318E
8	318 / 5.2L	90-91	Y	Auto. Trans. Premium Eng. (Roller Lifters)	3.91in.	3.313in.	023-318F

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DODGE TRUCK <i>Continued</i>							
8	318 / 5.2L	92-98	Y	Auto. Trans. Magnum Eng. (Roller Lifters)	3.91in.	3.313in.	023-318G
8	318 / 5.2L	92-98	Y	Std. Trans. Magnum Eng. (Roller Lifters)	3.91in.	3.313in.	023-318H
8	318 / 5.2L	95-96	T	Compressed Natural Gas	3.91in.	3.313in.	023-318K
8	345 / 5.7L	03-05	2,D	HEMI Engine	3.917in.	3.58in.	022-345
6	359 / 5.9L	91-93	8	Cummins Turbo Diesel Inline Injection	4.016in.	3.578in.	023-359C-SP
6	359 / 5.9L	91-93	8	Cummins Turbo Diesel Rotary Injection	4.016in.	3.578in.	023-359D-SP
6	359 / 5.9L	94-98	C,D	Cummins Turbo Diesel	4.016in.	3.578in.	023-359E-SP
6	359 / 5.9L	99-02	7	24V HO Cummins Turbo Diesel	4.016in.	3.578in.	023-359F-SP
6	359 / 5.9L	89-93	8	Cummins Turbo Diesel	4.016in.	3.578in.	023-359-SP
6	359 / 5.9L	89-93	8	Cummins Turbo Diesel Aftercooled	4.016in.	3.578in.	023-359A-SP
6	359 / 5.9L	89-93	8	Cummins Non-Turbo Diesel	4.016in.	3.578in.	023-359B-SP
6	359 / 5.9L	89-93	C, 8	Cummins Turbo Diesel	4.016in.	3.578in.	023-359
8	360 / 5.9L	98-01	5,Z	Magnum Eng. (Manual Trans)	4in.	3.578in.	023-360ZE
8	360 / 5.9L	98-01	5,Z	Magnum Eng. (Auto Trans)	4in.	3.578in.	023-360ZG
8	360 / 5.9L	02-03	Z	Magnum Eng. (Manual Trans)	4in.	3.578in.	023-360ZF
8	360 / 5.9L	71-73	F	Auto. Trans.	4in.	3.578in.	023-360
8	360 / 5.9L	71-73	F	Std. Trans.	4in.	3.578in.	023-360A
8	360 / 5.9L	71-73	F	H.D. Auto. Trans.	4in.	3.578in.	023-360B
8	360 / 5.9L	71-73	F	H.D. Std. Trans.	4in.	3.578in.	023-360C
8	360 / 5.9L	74-78	F	Auto. Trans.	4in.	3.578in.	023-360D
8	360 / 5.9L	74-78	F	Std. Trans.	4in.	3.578in.	023-360E
8	360 / 5.9L	74-78	F	H. D. Auto. Trans.	4in.	3.578in.	023-360F
8	360 / 5.9L	74-78	F	H.D. Std. Trans.	4in.	3.578in.	023-360G
8	360 / 5.9L	79-81	F, K, S	2V Auto. Trans.	4in.	3.578in.	023-360H
8	360 / 5.9L	79-81	F, K, S	2V Std. Trans.	4in.	3.578in.	023-360I
8	360 / 5.9L	79-81	F, K, T, U, V	H.D. 4V Auto. Trans.	4in.	3.578in.	023-360J
8	360 / 5.9L	79-81	F, K, T, U, V	H.D. 4V Std. Trans.	4in.	3.578in.	023-360K
8	360 / 5.9L	82-86	S, V, W	2V & 4V(Vin W 856) Auto. Trans.	4in.	3.578in.	023-360L
8	360 / 5.9L	82-86	S, V, W	2V & 4V(Vin W 856) Std. Trans.	4in.	3.578in.	023-360M
8	360 / 5.9L	82-86	S, V, W	Premium 2V & 4V(Vin W 856) Auto Trans.	4in.	3.578in.	023-360N
8	360 / 5.9L	82-86	S, V, W	Premium 2V & 4V(Vin W 856) Std. Trans.	4in.	3.578in.	023-360O
8	360 / 5.9L	87-88	W	4V Auto. Trans.	4in.	3.578in.	023-360P
8	360 / 5.9L	87-88	W	4V Std. Trans.	4in.	3.578in.	023-360Q
8	360 / 5.9L	87-88	W	Premium 4V Auto Trans.	4in.	3.578in.	023-360R
8	360 / 5.9L	87-88	W	Premium 4V Std. Trans.	4in.	3.578in.	023-360S
8	360 / 5.9L	89-89	Z, 5	TBI Roller Auto. Trans.	4in.	3.578in.	023-360T
8	360 / 5.9L	89-89	Z, 5	TBI Roller Std. Trans.	4in.	3.578in.	023-360U
8	360 / 5.9L	90-90	Z, 5	TBI Roller Auto. Trans.	4in.	3.578in.	023-360V
8	360 / 5.9L	90-90	Z, 5	TBI Roller Std. Trans. (Use O.E. Crank Bush & Brg)	4in.	3.578in.	023-360X
8	360 / 5.9L	91-92	Z, 5	TBI Roller Auto. Trans.	4in.	3.578in.	023-360Y
8	360 / 5.9L	91-92	Z, 5	TBI Roller Std. Trans. (Use O.E. Crank Bush & Brg)	4in.	3.578in.	023-360Z
8	360 / 5.9L	93-98	Z, 5	Magnum Eng. (AT)	4in.	3.578in.	023-360ZA
8	360 / 5.9L	93-98	Z, 5	Magnum Eng. (MT Requires OE Bushing/Brg. Assy)	4in.	3.578in.	023-360ZB
8	361 / 5.9L	68-71		D5/600	4.125in.	3.75in.	023-361C
8	361 / 5.9L	68-71			4.125in.	3.375in.	023-361
8	361 / 5.9L	72-77		-2	4.125in.	3.375in.	023-361A
8	361 / 5.9L	72-77		-4	4.125in.	3.75in.	023-361B

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DODGE TRUCK <i>Continued</i>							
8	383 / 6.2L	63-71	J	W/ 2V (Auto. Trans. W/ Steel Crank)	4.25in.	3.375in.	022-383
8	383 / 6.2L	63-71	J	W/ 2V (Std. Trans. W/ Steel Crank)	4.25in.	3.375in.	022-383A
8	400 / 6.6L	72-73	J	W/ 2V (W/ Cast Crank)	4.342in.	3.375in.	022-400C
8	400 / 6.6L	72-73	J	W/ 2V (Auto. Trans. W/ Steel Crank)	4.342in.	3.375in.	022-400D
8	400 / 6.6L	72-73	J	W/ 2V (Std. Trans. W/ Steel Crank)	4.342in.	3.375in.	022-400E
8	400 / 6.6L	74-78	J	W/ 2V (W/ Cast Crank)	4.342in.	3.375in.	022-400G
8	400 / 6.6L	74-78	J	W/ 2V (Auto. Trans. W/ Steel Crank)	4.342in.	3.375in.	022-400H
8	400 / 6.6L	74-78	J	W/ 2V (Std. Trans. W/ Steel Crank)	4.342in.	3.375in.	022-400I
8	413 / 6.8L	72-73			4.187in.	3.75in.	023-413
8	413 / 6.8L	74-77			4.187in.	3.75in.	023-413A
8	440 / 7.2L	72-73	A	Std. Trans.	4.32in.	3.75in.	022-440A
8	440 / 7.2L	72-73	A	H.D. Auto. Trans.	4.32in.	3.75in.	023-440
8	440 / 7.2L	72-73	A	H.D. Std. Trans.	4.32in.	3.75in.	023-440A
8	440 / 7.2L	72-73	A	Auto. Trans.	4.32in.	3.75in.	023-440E
8	440 / 7.2L	74-75	A	Auto. Trans. (Steel Crank)	4.32in.	3.75in.	022-440D
8	440 / 7.2L	74-75	A	Std. Trans. (Steel Crank)	4.32in.	3.75in.	022-440E
8	440 / 7.2L	74-75	A	H.D. Auto. Trans. (Steel Crank)	4.32in.	3.75in.	023-440B
8	440 / 7.2L	74-75	A	H.D. Std. Trans. (Steel Crank)	4.32in.	3.75in.	023-440C
8	440 / 7.2L	74-80	A, D	Cast Crank	4.32in.	3.75in.	022-440F
8	440 / 7.2L	74-80	A, D	H.D. Cast Crank	4.32in.	3.75in.	023-440D
10	488 / 8.0L	96-01	E,W	OHV 20V	4in.	3.882in.	023-488A
10	488 / 8.0L	94-95	E,W	OHV 20V	4in.	3.882in.	023-488
EAGLE							
4	90 / 1468cc	89-90	X	8V SOHC 4G15	75.5mm	82mm	058-090C
4	90 / 1468cc	91-96	A	12V SOHC 4G15	75.5mm	82mm	058-090E
4	112 / 1.8L	92-95	C	SOHC 16V MFI	81mm	89mm	058-112
4	112 / 1.8L	96-96	C	SOHC 16V MFI	81mm	89mm	058-112A
4	122 / 2.0L	95-98	F	DOHC 16V MFI Turbo	85mm	88mm	058-122O
4	122 / 2.0L	95-98	Y, ECC, ECF	DOHC	87.5mm	83mm	058-122K
4	143 / 2350cc	93-96	G	SOHC 16V MFI	86.5mm	100mm	058-143F
4	150 / 2.46L	88-89	Z,H	Premier Only	3.875in.	3.19in.	003-150D
6	201 / 3.3L	90-94	R	OHV 12V MFI	93mm	81mm	022-201
6	201 / 3.3L	93-97	T	OHV 12V MFI	93mm	81mm	022-201
6	215 / 3.5L	95-97	F	SOHC MFI	96mm	81mm	022-215A
FORD							
4	79 / 1.3L	88-89	K	SOHC 8V EFI Festiva (Mech.)	71mm	84mm	035-079
4	79 / 1.3L	89-89	K	SOHC 8V EFI Festiva (Hyd.)	71mm	84mm	035-079F
4	79 / 1.3L	90-92	K, H	SOHC 8V EFI (22mm Crank Snout)	71mm	84mm	035-079A
4	79 / 1.3L	92-93	H	SOHC 8V EFI Festiva (27mm Crank Snout)	71mm	84mm	035-079B
4	79 / 1.3L	94-95	H	SOHC 8V EFI Aspire W/ Crank Snout 1.062	71mm	84mm	035-079C
4	79 / 1.3L	94-94	H	SOHC 8V EFI Aspire W/ Crank Snout .856	71mm	84mm	035-079D
4	79 / 1.3L	96-97	H	SOHC 8V EFI Aspire W/ Crank Snout 1.062	71mm	84mm	035-079E
4	98 / 1.6L	78-80		Fiesta	3.188in.	3.063in.	035-098B
4	98 / 1.6L	81-85	2	SOHC	3.1496in.	3.12in.	035-098
4	98 / 1.6L	82-85	4, 5	SOHC EFI & 2V , H.O.	3.1496in.	3.12in.	035-098A
4	98 / 1.6L	87-87	5, 7	SOHC 8V MFI & 2V Tracer	78mm	84mm	052-097A

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FORD Continued							
4	98 / 1.6L	88-90	5, 7	SOHC 8V MFI & 2V Tracer	78mm	84mm	052-097B
4	98 / 1.6L	90-94	6	Turbo	78mm	84mm	052-097I
4	98 / 1.6L	91-94	Z	DOHC 16V EFI	78mm	84mm	052-097H
4	109 / 1.8L	91-96	8	DOHC 16V MFI Escort , Tracer	83mm	85mm	052-109
4	116 / 1.9L	85-86	9	W/ 2V	3.226in.	3.46in.	035-116E
4	116 / 1.9L	85-86	J	EFI	3.226in.	3.46in.	035-116
4	116 / 1.9L	87-90	9	SOHC 8V CFI (Hyd)	3.226in.	3.46in.	035-116F
4	116 / 1.9L	87-90	9	SOHC 8V CFI (Roller)	3.226in.	3.46in.	035-116G
4	116 / 1.9L	87-90	J	SOHC 8V EFI (Hyd)	3.226in.	3.46in.	035-116A
4	116 / 1.9L	87-90	J	SOHC 8V EFI (Roller)	3.226in.	3.46in.	035-116B
4	116 / 1.9L	91-92	J	SOHC 8V EFI (Roller)	3.226in.	3.46in.	035-116C
4	116 / 1.9L	93-96	J	SOHC 8V EFI (2nd Design Oil Pan Gsk)	3.226in.	3.46in.	035-116D
4	121 / 2.0L	95-96	3	DOHC- Zetec (Contour, Mystique) To 3/13/96	3.34in.	3.464in.	035-121
4	121 / 2.0L	96-97	3	DOHC- Zetec (Contour, Mystique) From 3/13/96	3.34in.	3.464in.	035-121C
4	121 / 2.0L	98-03	3	DOHC- Zetec (Contour, Mystique, Cougar, Escort)	3.34in.	3.464in.	035-121D
4	121 / 2.0L	00-02	P	8V SOHC SFI Escort	3.338in.	3.464in.	035-121F
4	121 / 2.0L	00-02	P	8V SOHC SFI Focus, Tracer	3.338in.	3.464in.	035-121G
4	121 / 2.0L	01-04	3	DOHC- Zetec (Focus)	3.34in.	3.464in.	035-121E
4	121 / 2.0L	93-94	A	DOHC 16V MFI Probe	83mm	92mm	052-121
4	121 / 2.0L	95-96	3	DOHC- Zetec (Contour, Mystique) To 3/13/96	3.34in.	3.464in.	035-121B
4	121 / 2.0L	95-97	A	DOHC 16V MFI Probe	83mm	92mm	052-121A
4	121 / 2.0L	97-99	P	8V SOHC SFI Escort, Focus, Tracer	3.338in.	3.464in.	035-121A
4	133 / 2.2L	88-92	C	SOHC 12V EFI Probe	86mm	94mm	052-133
4	133 / 2.2L	88-92	L	Turbo SOHC 12V EFI Probe	86mm	94mm	052-133A
4	138 / 2.3L	04-04	Z	DOHC-Duratec 16V, Focus, Escape, to 4/4/04	87.5mm	94mm	035-138
4	138 / 2.3L	04-05	Z	DOHC-Duratec 16V, Focus, Escape, from 4/5/04	87.5mm	94mm	035-138A
4	140 / 2.3L	74-81	A, Y	OHC Exc.Turbo (To 9/28/91)	3.78in.	3.125in.	035-140
4	140 / 2.3L	79-86	T, W	OHC Turbo To 7/15/86	3.78in.	3.125in.	035-140I
4	140 / 2.3L	80-84	A	OHC Exc.Turbo (From 9/29/81)	3.78in.	3.125in.	035-140A
4	140 / 2.3L	84-85	R	HSC W/1V Exc. H.O. (Steel Valve Covers)	3.68in.	3.125in.	035-140M
4	140 / 2.3L	85-86	A	OHC To 2/196	3.78in.	3.125in.	035-140B
4	140 / 2.3L	85-87	R	HSC W/1V Exc. H.O. (Alum. Valve Covers)	3.68in.	3.125in.	035-140P
4	140 / 2.3L	85-87	S	HSC CFI H.O. (Steel Valve Covers)	3.68in.	3.125in.	035-140T
4	140 / 2.3L	85-87	S	HSC CFI H.O. (Alum. Valve Covers)	3.68in.	3.125in.	035-140U
4	140 / 2.3L	85-85	X	HSC CFI Exc. H.O. (Steel Valve Covers)	3.68in.	3.125in.	035-140N
4	140 / 2.3L	85-87	X	HSC CFI Exc. H.O. (Alum. Valve Covers)	3.68in.	3.125in.	035-140O
4	140 / 2.3L	86-86	A	OHC From 2/19/86 To 7/15/86	3.78in.	3.125in.	035-140C
4	140 / 2.3L	86-88	A	OHC From 7/16/86	3.78in.	3.125in.	035-140D
4	140 / 2.3L	86-86	T, W	OHC Turbo From 7/15/86 To 11/12/86	3.78in.	3.125in.	035-140J
4	140 / 2.3L	87-88	W	OHC Turbo	3.78in.	3.125in.	035-140K
4	140 / 2.3L	88-89	S	HSC EFI H.O. (Alum. Valve Covers)	3.68in.	3.125in.	035-140V
4	140 / 2.3L	88-89	X	HSC EFI Exc. H.O. (Alum. Valve Covers)	3.68in.	3.125in.	035-140Q
4	140 / 2.3L	89-90	A	SOHC 8V	3.78in.	3.125in.	035-140E
4	140 / 2.3L	89-91	S	HSC EFI H.O. (Plastic Valve Covers)	3.68in.	3.125in.	035-140W

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FORD Continued							
4	140 / 2.3L	89-90	W	OHC Turbo	3.78in.	3.125in.	035-140L
4	140 / 2.3L	89-91	X	HSC EFI Except H.O. (Plastic Valve Covers)	3.68in.	3.125in.	035-140R
4	140 / 2.3L	91-92	M	SOHC 8V Dual Spark Plug Eng.To 1/12/92 (Roller)	3.78in.	3.125in.	035-140X
4	140 / 2.3L	92-92	M	OHC Dual Spark Plug Eng. From 1/13/92	3.78in.	3.125in.	035-140Y
4	140 / 2.3L	92-94	X	HSC EFI Exc. H.O. (Plastic Valve Covers)	3.68in.	3.125in.	035-140S
4	140 / 2.3L	93-93	M	SOHC 8V Dual Spark Plug Eng.	3.78in.	3.125in.	035-140Z
6	144 / 2.4L	60-62			3.5in.	2.5in.	035-144A
6	144 / 2.4L	63-64		CHECK OIL PUMP	3.5in.	2.5in.	035-144
4	153 / 2.5L	86-90	D	HSC	3.68in.	3.578in.	035-153
4	153 / 2.5L	91-91	N	HSC MFI (Plastic Valve Covers)	3.68in.	3.578in.	035-153A
4	155 / 2.5L	98-99	G	DOHC (Duratec Eng.) HO thru 6/14/99	85mm	74mm	035-155A
4	155 / 2.5L	99-00	G	DOHC (Duratec Eng.) HO from 6/15/99	85mm	74mm	035-155B
6	155 / 2.5L	93-97	B	DOHC 24V MFI Probe	84.5mm	74.2mm	052-155
4	155 / 2.5L	95-98	L	DOHC (Duratec Eng.)	85mm	74mm	035-155
6	170 / 2.8L	64-72	U	Mech. Lifters	3.5in.	2.938in.	035-170
6	170 / 2.8L	65-72	U	Hyd. Lifters	3.5in.	2.938in.	035-170A
6	171 / 2.8L	75-79	Z		3.66in.	2.709in.	035-171
6	181 / 3.0L	97-98	S	DOHC (Duratec Eng.)	3.5041in.	0in.	035-181D
6	181 / 3.0L	99-99	S	DOHC (Duratec Eng.)	3.5041in.	0in.	035-181A
6	181 / 3.0L	00-02	S	DOHC (Duratec Eng.)Taurus, Sable	3.5041in.	0in.	035-181B
6	181 / 3.0L	03-03	S	DOHC (Duratec Eng.)Taurus, Sable	3.5041in.	0in.	035-181C
6	181 / 3.0L	96-96	S	DOHC (Duratec Eng.)	3.5041in.	0in.	035-181
6	183 / 3.0L	96-99	2,U	OHV 12V Vulcan, Flex Fuel Taurus to 7/26/99	89mm	80mm	035-183D
6	183 / 3.0L	99-00	2,U	OHV 12V Vulcan, Flex Fuel Taurus from 7/27/99	89mm	80mm	035-183E
6	183 / 3.0L	01-01	2,U	OHV 12V Vulcan, Flex Fuel Taurus	89mm	80mm	035-183F
6	183 / 3.0L	02-06	2,U	OHV 12V Vulcan, Flex Fuel Taurus	89mm	80mm	035-183G
6	183 / 3.0L	86-90	U	OHV 12V EFI To 3/27/90	87mm	83mm	035-183
6	183 / 3.0L	90-90	U	OHV 12V EFI From 3/28/90	87mm	83mm	035-183A
6	183 / 3.0L	91-91	U	OHV 12V EFI	87mm	83mm	035-183B
6	183 / 3.0L	92-95	U	OHV 12V EFI	87mm	83mm	035-183C
4	200 / 3.3L	28-32		MODEL A	3.875in.	4.25in.	035-200B
6	200 / 3.3L	65-72	T	12V OHV L6 (200)	3.68in.	3.125in.	035-200C
6	200 / 3.3L	75-83	B, T, X	From 5/2/75	3.68in.	3.125in.	035-200
6	200 / 3.3L	81-83	B, X	3H Crank W/ 5-16 Rear Centering Ring	3.68in.	3.125in.	035-200A
8	221 / 3.6L	62-63			3.5in.	2.875in.	035-221
6	223 / 3.7L	55-60		12V OHV	3.625in.	3.6in.	035-223
6	223 / 3.7L	61-63		12V OHV w/cross drilled cam	3.625in.	3.6in.	035-223A
6	223 / 3.7L	61-63		12V OHV w/o cross drilled cam	3.625in.	3.6in.	035-223B
6	232 / 3.8L	00-04	4	OHV 12V EFI RWD	96.8mm	86mm	035-232O
6	232 / 3.8L	82-83	C, 3	OHV 12V W/2V & CFI (2 pc Rear Main)	96.8mm	86mm	035-232
6	232 / 3.8L	83-83	C, 3	OHV 12V W/2V & CFI (1 pc Rear Main)	96.8mm	86mm	035-232A
6	232 / 3.8L	84-86	C, 3	OHV 12V W/2V & CFI (To 1/15/86)	96.8mm	86mm	035-232B
6	232 / 3.8L	86-87	3	OHV 12V W/2V & CFI (From 1/16/86)	96.8mm	86mm	035-232C
6	232 / 3.8L	88-88	4	OHV 12V EFI RWD (Balance Shaft Eng.)	96.8mm	86mm	035-232E

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FORD Continued							
6	232 / 3.8L	88-88	4	OHV 12V EFI FWD (Balance Shaft Eng.)	96.8mm	86mm	035-232F
6	232 / 3.8L	89-93	4	OHV 12V EFI RWD (Balance Shaft Eng.)	96.8mm	86mm	035-232D
6	232 / 3.8L	89-93	4	OHV 12V EFI FWD (Balance Shaft Eng.)	96.8mm	86mm	035-232G
6	232 / 3.8L	89-93	R	OHV 12V EFI Supercharged (Balance Shaft Eng.)	96.8mm	86mm	035-232J
6	232 / 3.8L	94-95	4	OHV 12V EFI RWD (Balance Shaft Eng.)	96.8mm	86mm	035-232H
6	232 / 3.8L	94-95	4	OHV 12V EFI FWD (Balance Shaft Eng.)	96.8mm	86mm	035-232I
6	232 / 3.8L	94-95	R	OHV 12V EFI Supercharged (Balance Shaft Eng.)	96.8mm	86mm	035-232K
6	232 / 3.8L	96-96	4	OHV 12V EFI RWD	96.8mm	86mm	035-232L
6	232 / 3.8L	97-98	4	OHV 12V EFI RWD	96.8mm	86mm	035-232M
6	232 / 3.8L	99-99	4	OHV 12V EFI RWD	96.8mm	86mm	035-232N
8	239 / 3.9L	46-47		Flathead V8 w 2/holes	3.187in.	3.125in.	035-239A
8	239 / 3.9L	46-47		Flathead V8 w 3/holes	3.187in.	3.75in.	035-239B
8	239 / 3.9L	48-48		Flathead V8 w 2/holes	3.187in.	3.75in.	035-239C
8	239 / 3.9L	48-48		Flathead V8 w 3/holes	3.187in.	3.75in.	035-239D
8	239 / 3.9L	49-53		Flathead V8	3.187in.	3.75in.	035-239E
8	239 / 3.9L	54-54		OHV	3.5in.	3.1in.	035-239
6	250 / 4.1L	73-77	L		3.68in.	3.75in.	035-250
6	250 / 4.1L	78-80	C, L		3.68in.	3.125in.	035-250A
6	255 / 4.2L	80-81	D	To 4/13/81	3.68in.	3in.	035-255
6	255 / 4.2L	81-82	D	From 4/14/81	3.68in.	3in.	035-255A
8	260 / 4.3L	62-65		16V OHV	3.797in.	2.78in.	035-260
8	272 / 4.5L	55-57			3.625in.	3.297in.	035-272
8	281 / 4.6L	93-97	V	DOHC 32V (Triton) Mustang	3.55in.	3.542in.	035-281D
8	281 / 4.6L	94-94	W	SOHC 16V MFI (Modular Eng.)	3.55in.	3.542in.	035-281F
8	281 / 4.6L	99-01	V	32V DOHC VIN V TRITON MUSTANG	3.55in.	3.542in.	035-281G
8	281 / 4.6L	99-99	W	16V SOHC VIN W ROMEO	3.55in.	3.542in.	035-281L
8	281 / 4.6L	99-99	X,6	16V SOHC VIN X WINDSOR	3.55in.	3.542in.	035-281H
8	281 / 4.6L	00-00	W	16V SOHC VIN W ROMEO	3.55in.	3.542in.	035-281M
8	281 / 4.6L	00-00	X,6	16V SOHC VIN X WINDSOR	3.55in.	3.542in.	035-281I
8	281 / 4.6L	01-01	W	16V SOHC VIN W ROMEO	3.55in.	3.542in.	035-281N
8	281 / 4.6L	01-01	X,6	16V SOHC VIN X WINDSOR	3.55in.	3.542in.	035-281J
8	281 / 4.6L	02-03	W	16V SOHC VIN W ROMEO	3.55in.	3.542in.	035-281O
8	281 / 4.6L	02-02	X	16V SOHC VIN X WINDSOR	3.55in.	3.542in.	035-281K
8	281 / 4.6L	91-92	W	SOHC 16V EFI (Modular Eng.)	3.55in.	3.542in.	035-281
8	281 / 4.6L	93-93	W	SOHC 16V MFI (Modular Eng.)	3.55in.	3.542in.	035-281A
8	281 / 4.6L	95-95	W	SOHC 16V MFI Crown Victoria	3.55in.	3.542in.	035-281B
8	281 / 4.6L	96-98	W	SOHC 16V MFI Crown Victoria	3.55in.	3.542in.	035-281C
8	281 / 4.6L	98-98	X,6	SOHC 16V MFI Crown Victoria	3.55in.	3.542in.	035-281E
8	289 / 4.7L	65-68	**271HP**	Muscle Car Application	4in.	2.87in.	035-289D
8	289 / 4.7L	65-68			4in.	3in.	035-289SP
8	289 / 4.7L	64-65		2 .B.B.	4in.	2.87in.	035-289
8	289 / 4.7L	64-65		4 B.B.	4in.	2.87in.	035-289B
8	289 / 4.7L	65-68		2 B.B.	4in.	2.87in.	035-289A
8	289 / 4.7L	65-68		4 .B.B.	4in.	2.87in.	035-289C
8	302 / 5.0L	68-72			4in.	3in.	035-302-SP
8	302 / 5.0L	77-82			4in.	3in.	035-302B-SP
8	302 / 5.0L	68-72	F, G	To 5/2/72	4in.	3in.	035-302

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FORD Continued							
8	302 / 5.0L	72-76	F	(Low Comp.Eng.)	4in.	3in.	035-302A
8	302 / 5.0L	75-80	F		4in.	3in.	035-302B
8	302 / 5.0L	81-82	F	To 11/30/82	4in.	3in.	035-302C
8	302 / 5.0L	82-82	F	H.O. Eng. To 11/30/82	4in.	3in.	035-302G
8	302 / 5.0L	82-84	M	H.O. Eng. From 12/1/82 To 3/21/84	4in.	3in.	035-302H
8	302 / 5.0L	83-85	F	From 12/1/82	4in.	3in.	035-302D
8	302 / 5.0L	84-84	M	H.O. Eng. From 3/21/84	4in.	3in.	035-302I
8	302 / 5.0L	85-85	M	H.O. Eng.	4in.	3in.	035-302J
8	302 / 5.0L	86-90	E, M	H.O. Eng. EFI	4in.	3in.	035-302K
8	302 / 5.0L	86-90	F	EFI	4in.	3in.	035-302E
8	302 / 5.0L	91-95	E, T	H.O. EFI	4in.	3in.	035-302L
8	302 / 5.0L	91-95	F	EFI	4in.	3in.	035-302F
8	312 / 5.1L	56-60		GEAR TYPE	3.8in.	3.438in.	035-312
8	312 / 5.1L	56-60		ROTOR TYPE	3.8in.	3.438in.	035-312A
8	351 / 5.7L	69-71		Windsor 4v	4in.	3.5in.	035-351M
8	351 / 5.7L	69-76		Windsor 2v	4in.	3.5in.	035-351N
8	351 / 5.8L	69-69	**MACH 1**	Muscle Car Application	4in.	3.5in.	035-351P
8	351 / 5.8L	71-72	**COBRA JET**	Muscle Car Application	4in.	3.5in.	035-351O
8	351 / 5.8L	70-74	C	Cleveland W/2V	4in.	3.5in.	035-351
8	351 / 5.8L	70-74	C	Cleveland W/2V Flat-Top Pistons	4in.	3.5in.	035-351A
8	351 / 5.8L	70-74	C, CJ	Cleveland W4V	4in.	3.5in.	035-351B
8	351 / 5.8L	70-74	C, CJ	Cleveland W/4V Flat-Top Piston	4in.	3.5in.	035-351C
8	351 / 5.8L	75-76	H	Windsor	4in.	3.5in.	035-351G
8	351 / 5.8L	75-76	M	Modified	4in.	3.5in.	035-351D
8	351 / 5.8L	77-79	G, H	Windsor	4in.	3.5in.	035-351H
8	351 / 5.8L	77-78	M	Modified	4in.	3.5in.	035-351E
8	351 / 5.8L	79-79	M	Modified	4in.	3.5in.	035-351F
8	351 / 5.8L	80-83	G, H	Windsor (To 7/10/83)	4in.	3.5in.	035-351I
8	351 / 5.8L	83-86	G	Windsor From 7/11/83	4in.	3.5in.	035-351J
8	351 / 5.8L	87-88	G	Windsor W/2V	4in.	3.5in.	035-351K
8	351 / 5.8L	89-91	G	Windsor W/ 2V	4in.	3.5in.	035-351L
8	352 / 5.7L	66-66		CHECK CAM BRGS - HYD CAM	4in.	3.5in.	035-352B
8	352 / 5.7L	58-63		CHECK CAM BRGS - HYD CAM	4in.	3.5in.	035-352
8	352 / 5.7L	64-65		CHECK CAM BRGS - HYD CAM	4in.	3.5in.	035-352A
8	361 / 5.9L	58-58		EDSEL	4.052in.	3.5in.	035-361
8	390 / 6.4L	61-62			4.05in.	3.78in.	035-390F
8	390 / 6.4L	68-69	**320HP**	Muscle Car Application	4.05in.	3.78in.	035-390E
8	390 / 6.4L	64-65	Y	W/2V	4.05in.	3.78in.	035-390
8	390 / 6.4L	66-66	Y		4.05in.	3.78in.	035-390A
8	390 / 6.4L	67-71	Y	W/4V & 10.1 Comp.	4.05in.	3.78in.	035-390B
8	390 / 6.4L	68-71	Y	W/2V & 8.4 Comp.	4.05in.	3.78in.	035-390C
8	390 / 6.4L	68-71	Y	W/4V & 9.4 Comp.	4.05in.	3.78in.	035-390D
8	400 / 6.6L	71-72	S		4in.	4in.	035-400
8	400 / 6.6L	73-74	S		4in.	4in.	035-400A
8	400 / 6.6L	75-76	S		4in.	4in.	035-400B
8	400 / 6.6L	77-79	S		4in.	4in.	035-400C
8	428 / 7.0L	68-69	**335HP**	Muscle Car Application	4.13in.	3.984in.	035-428A
8	428 / 7.0L	66-70			4.13in.	3.984in.	035-428
8	429 / 7.0L	68-71	**370HP**	Muscle Car Application	4.36in.	3.59in.	035-429
8	429 / 7.0L	68-73	N	16V OHV	4.36in.	3.59in.	035-429A
8	460 / 7.5L	68-74	A		4.36in.	3.85in.	035-460
8	460 / 7.5L	75-78	A, C		4.36in.	3.85in.	035-460A

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FORD TRUCK							
4	121 / 2.0L	79-82	MB	Courier	80mm	98mm	036-121
4	122 / 2.0L	83-86	C	OHC To 7/15/86	3.518in.	3.125in.	036-122
4	122 / 2.0L	86-86	C	OHC From 7/15/86	3.518in.	3.125in.	036-122A
4	122 / 2.0L	87-88	C	OHC	3.518in.	3.125in.	036-122B
4	140 / 2.3L	01-03	D	DOHC-Duratec 16V, Ranger	3.445in.	3.701in.	036-140I
4	140 / 2.3L	04-05	D	DOHC-Duratec 16V, Ranger	3.445in.	3.701in.	036-140J
4	140 / 2.3L	77-81	WB	OHC To 9/28/81	3.78in.	3.125in.	035-140
4	140 / 2.3L	81-82	WB	OHC From 9/28/81	3.78in.	3.125in.	035-140A
4	140 / 2.3L	83-85	A	OHC EFI & 1V To 4/8/85	3.78in.	3.125in.	036-140
4	140 / 2.3L	85-86	A	OHC EFI & 1V From 4/8/85 To 7/15/86	3.78in.	3.125in.	036-140A
4	140 / 2.3L	86-86	A	OHC EFI & 1V From 7/15/86	3.78in.	3.125in.	036-140B
4	140 / 2.3L	86-87	A	OHC EFI From 7/15/86	3.78in.	3.125in.	036-140D
4	140 / 2.3L	87-88	A	OHC EFI W/ Roller Cam	3.78in.	3.125in.	036-140C
4	140 / 2.3L	89-92	A	OHC EFI W/ Roller Cam To 1/12/92	3.78in.	3.125in.	035-140F
4	140 / 2.3L	92-94	A	OHC EFI W/ Roller Cam From 1/12/92	3.78in.	3.125in.	035-140G
4	140 / 2.3L	94-95	A	SOHC 8V MFI	3.78in.	3.125in.	036-140E
4	140 / 2.3L	96-97	A	SOHC Dual Plug	3.78in.	3.125in.	036-140F
4	150 / 2.5L	98-98	C	SOHC Ranger	3.779in.	3.405in.	036-140G
6	171 / 2.8L	83-86	S		3.661in.	2.701in.	036-171
6	177 / 2.9L	86-90	T		3.661in.	2.831in.	036-177
6	177 / 2.9L	90-92	T	Full Grooved Main Bearing	3.661in.	2.831in.	036-177A
6	181 / 3.0L	01-03	1	DOHC 24V Escape to 12/14/03	89mm	79.5mm	036-181
6	181 / 3.0L	03-04	1	DOHC 24V Escape from 12/14/03	89mm	79.5mm	036-181A
6	183 / 3.0L	99-00	U	OHV 12V EFI Windstar from 7/28/99	87mm	83mm	036-183J
6	183 / 3.0L	00-01	U	OHV 12V EFI Ranger	87mm	83mm	036-183K
6	183 / 3.0L	02-03	U	OHV 12V EFI Ranger	87mm	83mm	036-183L
6	183 / 3.0L	04-06	U	OHV 12V EFI Ranger	87mm	83mm	036-183M
6	183 / 3.0L	86-90	U	OHV 12V EFI To 3/27/90	87mm	83mm	036-183
6	183 / 3.0L	90-90	U	OHV 12V EFI From 3/27/90	87mm	83mm	036-183A
6	183 / 3.0L	91-91	U	OHV 12V EFI To 10/21/91	87mm	83mm	036-183B
6	183 / 3.0L	91-92	U	OHV 12V EFI Ranger From 10/22/91	87mm	83mm	036-183C
6	183 / 3.0L	92-94	U	OHV 12V EFI Aerostar	87mm	83mm	036-183E
6	183 / 3.0L	93-95	U	OHV 12V EFI Ranger	87mm	83mm	036-183D
6	183 / 3.0L	93-93	W	SOHC 12V MFI Villager	87mm	83mm	059-183
6	183 / 3.0L	94-95	U	OHV 12V EFI Windstar	87mm	83mm	036-183F
6	183 / 3.0L	94-95	W	SOHC 12V MFI Villager	87mm	83mm	059-183A
6	183 / 3.0L	96-96	U	OHV 12V EFI Ranger	87mm	83mm	036-183G
6	183 / 3.0L	96-97	U	OHV 12V EFI Windstar	87mm	83mm	036-183H
6	183 / 3.0L	96-96	W	SOHC 12V MFI Villager	87mm	83mm	059-183B
6	183 / 3.0L	97-98	1	SOHC 12V MFI	87mm	83mm	059-183D
6	183 / 3.0L	97-98	W	SOHC 12V MFI Villager	87mm	83mm	059-183C
6	183 / 3.0L	98-99	U	OHV 12V EFI Windstar thru 7/27/99	87mm	83mm	036-183I
6	199 / 3275cc	99-02	T	SOHC Villager	91.5mm	83mm	059-199
6	232 / 3.8L	97-98	4	OHV 12V EFI FWD Windstar (Bal Shft Eng.)thru 1/15/98	96.8mm	86mm	036-232A
6	232 / 3.8L	98-98	4	OHV 12V EFI FWD Windstar (Bal Shft Eng.)from 1/16/98	96.8mm	86mm	036-232B
6	232 / 3.8L	99-99	4	OHV 12V EFI FWD Windstar (Balance Shaft Eng.)	96.8mm	86mm	036-232C
6	232 / 3.8L	00-03	4	OHV 12V EFI FWD Windstar (Balance Shaft Eng.)	96.8mm	86mm	036-232D
6	232 / 3.8L	82-83	3	To 12/31/82	96.8mm	86mm	035-232

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FORD TRUCK <i>Continued</i>							
6	232 / 3.8L	83-83	3	From 12/31/82	96.8mm	86mm	035-232A
6	232 / 3.8L	94-95	4	OHV 12V EFI FWD Windstar (Balance Shaft Eng.)	96.8mm	86mm	035-232I
6	232 / 3.8L	96-96	4	OHV 12V EFI RWD	96.8mm	86mm	035-232L
6	232 / 3.8L	96-96	4	OHV 12V EFI FWD Windstar (Balance Shaft Eng.)	96.8mm	86mm	036-232
6	244 / 4.0L	95-96	X	OHV MFI Explorer, Ranger/ Aerostar W/MT	100mm	84mm	036-244D
6	244 / 4.0L	95-96	X	MFI Aerostar W/AT	100mm	84mm	036-244E
6	244 / 4.0L	99-00	E	Explorer, Mountaineer	3.9527in.	3.307in.	036-244I
6	244 / 4.0L	99-02	X	Explorer, Ranger	3.9527in.	3.307in.	036-244H
6	244 / 4.0L	00-01	E,K	Explorer, Mountaineer, also flex fuel	3.9527in.	3.307in.	036-244J
6	244 / 4.0L	01-01	E,K	Ranger also flex fuel	3.9527in.	3.307in.	036-244L
6	244 / 4.0L	02-02	E,K	Explorer, Mountaineer, also flex fuel	3.9527in.	3.307in.	036-244K
6	244 / 4.0L	02-03	E,K	Ranger also flex fuel	3.9527in.	3.307in.	036-244M
6	244 / 4.0L	04-04	E,K	Ranger thru 2/28/04 also flex fuel	3.9527in.	3.307in.	036-244N
6	244 / 4.0L	04-06	E,K	Ranger from 3/1/04 also flex fuel	3.9527in.	3.307in.	036-244O
6	244 / 4.0L	04-04	E,K	Explorer thru 2/28/04 also flex fuel	3.9527in.	3.307in.	036-244P
6	244 / 4.0L	04-06	E,K	Explorer from 3/1/04 also flex fuel	3.9527in.	3.307in.	036-244Q
6	244 / 4.0L	90-92	X	OHV 12V EFI (Auto. Trans.)	100mm	84mm	036-244
6	244 / 4.0L	90-92	X	OHV 12V EFI (Manual Trans.)	100mm	84mm	036-244A
6	244 / 4.0L	93-94	X	OHV 12V EFI (Aerostar Auto. Trans.)	100mm	84mm	036-244B
6	244 / 4.0L	93-94	X	OHV 12V EFI Explorer, Ranger, Aerostar Manual Trans. (Exc. Calif.)	100mm	84mm	036-244C
6	244 / 4.0L	97-98	E	SOHC	3.9527in.	3.307in.	036-244G
6	244 / 4.0L	97-98	X	OHV 12V MFI	100mm	84mm	036-244F
8	255 / 4.2L	80-81	D	To 4/12/81	3.68in.	3in.	036-255
8	255 / 4.2L	81-82	D	From 4/12/81	3.68in.	3in.	036-255A
6	256 / 4.2L	97-98	2	To 1/14/98	3.81in.	3.542in.	036-256-SP
6	256 / 4.2L	01-01	2	Trucks, Vans	3.81in.	3.74in.	036-256A
6	256 / 4.2L	02-02	2	Trucks, Vans	3.81in.	3.74in.	036-256B
6	256 / 4.2L	03-03	2	Trucks, Vans	3.81in.	3.74in.	036-256C
6	256 / 4.2L	04-04	2	Trucks, Vans	3.81in.	3.74in.	036-256D
6	256 / 4.2L	04-04	2	Freestar, Monterey	3.81in.	3.74in.	036-256D
6	256 / 4.2L	97-00	2		3.81in.	3.74in.	036-256
8	281 / 4.6L	99-99	6	16V SOHC VIN 6 WINDSOR TRUCK	3.5512in.	3.542in.	036-281C
8	281 / 4.6L	99-99	W	16V SOHC VIN W ROMEO TRUCK	3.5512in.	3.542in.	036-281F
8	281 / 4.6L	00-00	6	16V SOHC VIN 6 WINDSOR TRUCK	3.5512in.	3.542in.	036-281D
8	281 / 4.6L	00-00	W	16V SOHC VIN W ROMEO TRUCK	3.5512in.	3.542in.	036-281G
8	281 / 4.6L	01-01	6	16V SOHC VIN 6 WINDSOR TRUCK	3.5512in.	3.542in.	036-281E
8	281 / 4.6L	01-01	W	16V SOHC VIN W ROMEO TRUCK	3.5512in.	3.542in.	036-281H
8	281 / 4.6L	02-03	W	16V SOHC VIN W ROMEO TRUCK	3.5512in.	3.542in.	036-281I
8	281 / 4.6L	04-05	W	16V SOHC VIN W ROMEO Expedition, Explorer F150, F250	3.5512in.	3.542in.	036-281J
8	281 / 4.6L	04-05	W	16V SOHC VIN W ROMEO E150, E250	3.5512in.	3.542in.	036-281K
8	281 / 4.6L	97-98	6	SOHC 16V (Triton) W/ 6-Bolt Flywheel	3.5512in.	3.542in.	036-281
8	281 / 4.6L	97-98	6	SOHC 16V (Triton) W/ 8-Bolt Flywheel	3.5512in.	3.542in.	036-281A
8	281 / 4.6L	97-98	W	SOHC	3.5512in.	3.542in.	036-281B

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FORD TRUCK <i>Continued</i>							
8	292 / 4.8L	58-64		CHECK OIL PUMP	3.75in.	3.297in.	036-292
6	300 / 4.9L	96-97	Y		4in.	3.98in.	036-300J
6	300 / 4.9L	70-79	B		4in.	3.98in.	036-300
6	300 / 4.9L	73-82	E	W/ Oil Slinger	4in.	3.98in.	036-300A
6	300 / 4.9L	73-82	E	H.D. W/ Oil Slinger	4in.	3.98in.	036-300G
6	300 / 4.9L	82-85	B, E	To 5/15/85 (W/O Oil Slinger)	4in.	3.98in.	036-300B
6	300 / 4.9L	82-85	E	H.D. To 5/15/85 (W/O Oil Slinger)	4in.	3.98in.	036-300H
6	300 / 4.9L	85-86	B, Y	From 5/15/85	4in.	3.98in.	036-300C
6	300 / 4.9L	85-86	Y	H.D. From 5/15/85	4in.	3.98in.	036-300I
6	300 / 4.9L	87-87	Y		4in.	3.98in.	036-300D
6	300 / 4.9L	88-91	Y	To 2/21/91	4in.	3.98in.	036-300E
6	300 / 4.9L	91-96	Y	From 2/21/91	4in.	3.98in.	036-300F
8	302 / 5.0L	94-94			4in.	3in.	036-302H
8	302 / 5.0L	69-72	G	Up to 5/2/72	4in.	3in.	035-302
8	302 / 5.0L	72-74	G	From 5/3/72	4in.	3in.	035-302A
8	302 / 5.0L	75-76	G	(Cast Iron Rocker Arms)	4in.	3in.	036-302
8	302 / 5.0L	77-81	F, G		4in.	3in.	035-302B
8	302 / 5.0L	82-83	F	(2 Pc. Rear Oil Seal)	4in.	3in.	036-302A
8	302 / 5.0L	83-84	F	(1 Pc. Rear Oil Seal)	4in.	3in.	035-302D
8	302 / 5.0L	85-86	F, N		4in.	3in.	035-302D
8	302 / 5.0L	87-87	N	Up to 4/14/87	4in.	3in.	036-302B
8	302 / 5.0L	87-88	N	From 4/15/87	4in.	3in.	036-302C
8	302 / 5.0L	89-91	N		4in.	3in.	036-302D
8	302 / 5.0L	92-94	N	Roller Cam	4in.	3in.	036-302E
8	302 / 5.0L	95-97	N	Roller Cam	4in.	3in.	036-302F
8	302 / 5.0L	98-00	N, P	Roller Cam	4in.	3in.	036-302G
8	317 / 5.2L	52-55			3.8in.	3.5in.	035-317
8	330 / 5.4L	64-65	NO PISTON AVAL	4 RING HVY DUTY	3.875in.	3.5in.	036-330H
8	330 / 5.4L	66-78	NO PISTON AVAL	4 RING HVY DUTY	3.875in.	3.5in.	036-330J
8	330 / 5.4L	66-78		3 RING MED DUTY	3.875in.	3.5in.	036-330I
8	330 / 5.4L	99-02	A,R	32V DOHC VIN A & R	3.5512in.	4.16in.	036-330G
8	330 / 5.4L	99-99	L,M	SOHC (Triton) F150, F250, Expedition	3.5512in.	4.16in.	036-330D
8	330 / 5.4L	99-99	L,M	SOHC (Triton) F350, E150, E250, E350	3.5512in.	4.16in.	036-330E
8	330 / 5.4L	00-03	L,M	SOHC (Triton) Truck, Van, Expedition, Navigator	3.5512in.	4.16in.	036-330F
8	330 / 5.4L	04-04	L,M	SOHC (Triton) F250, F350 Truck, Expedition, Excursion	3.5512in.	4.16in.	036-330J
8	330 / 5.4L	04-05	L,M	SOHC (Triton) 2004 E150/E250/E350 Van, 2005 ALL	3.5512in.	4.16in.	036-330K
8	330 / 5.4L	64-65			3.875in.	3.5in.	036-330
8	330 / 5.4L	66-78		3-Ring Piston	3.875in.	3.5in.	036-330A
8	330 / 5.4L	97-97	L,M	SOHC (Triton) To 7/20/97	3.5512in.	4.16in.	036-330B
8	330 / 5.4L	97-98	L,M	SOHC (Triton) From 7/20/97-98	3.5512in.	4.16in.	036-330C
8	332 / 5.5L	56-63	FE	FE motor, check oil pump	4in.	3.3in.	036-322
8	351 / 5.8L	88-91			4in.	3.5in.	036-351F-SP
8	351 / 5.8L	96-96	R	EFI F150 (Lightning) check rings	4in.	3.5in.	036-351I
8	351 / 5.8L	75-76	H	Windsor	4in.	3.5in.	036-351A
8	351 / 5.8L	77-83	G, M	Windsor W/ 2pc Rear Oil Seal (E, F 100, 250)	4in.	3.5in.	035-351I
8	351 / 5.8L	77-82	M	Modified	4in.	3.5in.	036-351
8	351 / 5.8L	83-83	H	W/2V & W/ 1pc Rear Oil Seal (E, F, 100, 250)	4in.	3.5in.	036-351B
8	351 / 5.8L	83-86	H	W/ 4V To 7/21/86	4in.	3.5in.	036-351D

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FORD TRUCK <i>Continued</i>							
8	351 / 5.8L	84-85	G, H	W/2V & W/ 1pc Rear Oil Seal (E, F,100, 250)	4in.	3.5in.	036-351C
8	351 / 5.8L	86-87	H	W/ 4V From 7/21/86 To 5/31/87	4in.	3.5in.	036-351E
8	351 / 5.8L	87-93	H	W/ 4V & EFI From 6/1/87	4in.	3.5in.	036-351F
8	351 / 5.8L	93-95	R	EFI F150 (Lightning)	4in.	3.5in.	036-351H
8	351 / 5.8L	94-98	H	EFI	4in.	3.5in.	036-351G
8	352 / 5.8L	65-67			4in.	3.5in.	036-352
8	360 / 5.9L	68-76	Y		4.05in.	3.5in.	036-360
8	361 / 5.9L	66-78		HD Gas, 390 BORE W/ 352 STROKE	4.05in.	3.5in.	036-361
8	365 / 6.0L	03-05	P	VT345 Turbo Diesel	3.74in.	4.134in.	036-363-SP
8	370 / 6.1L	79-90		M.D. & H.D.	4.05in.	3.59in.	036-370
8	390 / 6.4L	68-73	M		4.05in.	3.78in.	035-390C
8	390 / 6.4L	74-76	M		4.05in.	3.78in.	036-390
8	391 / 6.4L	64-65		W/ 4-Ring Piston	4.05in.	3.79in.	036-391B
8	391 / 6.4L	64-78		W/ 3-Ring Piston	4.05in.	3.79in.	036-391C
8	391 / 6.4L	64-78		W/ 3-Ring Piston	4.05in.	3.781in.	036-391
8	391 / 6.4L	66-78		W/ 4-Ring Piston	4.05in.	3.79in.	036-391A
8	400 / 6.6L	77-82	S, Z		4in.	4in.	036-400
10	415 / 6.8L	02-05	S	20V SOHC VIN S TRITON W/ IMP. PWR. E-SD, E350, E450 Vans	3.5512in.	4.165in.	036-415B
10	415 / 6.8L	02-04	S	20V SOHC VIN S TRITON W/ IMP. PWR. F250/350/450, SD, Excursion	3.5512in.	4.165in.	036-415C
10	415 / 6.8L	02-05	S	20V SOHC VIN S TRITON W/O IMP. PWR. E-SD, E350, E450 Vans	3.5512in.	4.165in.	036-415D
10	415 / 6.8L	02-04	S	20V SOHC VIN S TRITON W/O IMP. PWR. F250/350/450, SD, Excursion	3.5512in.	4.165in.	036-415E
10	415 / 6.8L	97-01	S	20V SOHC VIN S TRITON W/O IMP. POWER	3.5512in.	4.165in.	036-415
10	415 / 6.8L	97-01	S	20V SOHC VIN S TRITON W/ IMP. POWER	3.5512in.	4.165in.	036-415A
8	420 / 6.9L	83-87	1	Diesel (International Eng.)	4in.	4.18in.	044-420
8	429 / 7.0L	95-97		EFI (H.D.)	4.36in.	3.59in.	036-429D
8	429 / 7.0L	79-87		W/4V (H.D.)	4.36in.	3.59in.	036-429
8	429 / 7.0L	88-89		W/4V (H.D.)	4.36in.	3.59in.	036-429A
8	429 / 7.0L	90-94		W/4V (H.D.)	4.36in.	3.59in.	036-429B
8	429 / 7.0L	90-94		EFI (H.D.)	4.36in.	3.59in.	036-429C
8	445 / 7.3L	94-97	F	Turbo-Diesel Big Pin Direct Inj.	4.11in.	4.18in.	036-445B-SP
8	445 / 7.3L	94-97	F	Turbo-Diesel Big Pin	4.11in.	4.18in.	036-445BP-SP
8	445 / 7.3L	98-99	F	Turbo-Diesel Big Pin Direct Inj.To 3/99	4.11in.	4.18in.	036-445C-SP
8	445 / 7.3L	99-03	F	Turbo-Diesel Big Pin Direct Inj.From 4/99	4in.	3in.	036-445D
8	445 / 7.3L	99-03	F	Turbo-Diesel Big Pin Direct Inj.From 4/99	4in.	3in.	036-445D-SP
8	445 / 7.3L	88-94	C, M	Diesel (Navistar)	4.11in.	4.18in.	036-445
8	445 / 7.3L	88-94	C, M	Diesel (Navistar)	4.11in.	4.18in.	036-445-SP
8	445 / 7.3L	88-94	C, M	Diesel W/ Aftermarket Turbo (Navistar)	4.11in.	4.18in.	036-445A
8	445 / 7.3L	94-95	F	Turbo-Diesel Direct Inj. Only (Navistar) To 5/95	4.11in.	4.18in.	036-445B
8	445 / 7.3L	95-97	F	Turbo-Diesel Direct Inj. Only (Navistar) From 6/95	4.11in.	4.18in.	036-445C
8	460 / 7.5L	72-74	J		4.36in.	3.85in.	036-460
8	460 / 7.5L	75-78	A	F100 / F350	4.36in.	3.85in.	036-460
8	460 / 7.5L	75-78	A	M400- M500	4.36in.	3.85in.	036-460B
8	460 / 7.5L	79-85	L	Up to 3/11/85	4.36in.	3.85in.	036-460A
8	460 / 7.5L	85-87	L	From 3/12/85	4.36in.	3.85in.	036-460C

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FORD TRUCK <i>Continued</i>							
8	460 / 7.5L	88-92	G	EFI	4.36in.	3.85in.	036-460E
8	460 / 7.5L	93-93	G	W/ 4V	4.36in.	3.85in.	036-460F
8	460 / 7.5L	93-93	G	EFI	4.36in.	3.85in.	036-460G
8	460 / 7.5L	94-95	G	W/4V	4.36in.	3.85in.	036-460H
8	460 / 7.5L	94-95	G	EFI	4.36in.	3.85in.	036-460I
8	460 / 7.5L	96-98	G	MFI	4.36in.	3.85in.	036-460J
6	474 / 7.8L	87-95	A	Turbo Diesel	4.4in.	5.2in.	036-474
8	475 / 7.8L	73-79		HD Gas	4.5in.	3.75in.	036-475
8	534 / 8.8L	58-81			4.5in.	4.2in.	036-534
GEO							
3	61 / 1.0L	93-93	6	Exc. Turbo	74mm	77mm	077-061B
3	61 / 1.0L	89-89	6	Exc. Turbo	74mm	77mm	077-061A
3	61 / 993cc	94-95	6	6V SOHC G10	74mm	77mm	077-061C
3	61 / 993cc	96-98	6	6V SOHC G10	74mm	77mm	077-061D
4	82 / 1324cc	00-01	2	SOHC TBI 8V Metro	74mm	77mm	077-082D
4	82 / 1324cc	92-94	9	SOHC TBI 8V Metro	74mm	77mm	077-082
4	82 / 1324cc	95-95	9	SOHC TBI 8V Metro	74mm	77mm	077-082A
4	82 / 1324cc	96-97	9	SOHC TBI 8V Metro	74mm	77mm	077-082B
4	82 / 1324cc	98-99	9	SOHC TBI 8V Metro	74mm	77mm	077-082C
4	91 / 1.5L	89-89	7	Spectrum (8 Bolt Crank)	77mm	79mm	045-091A
4	91 / 1.5L	89-89	9	Spectrum Turbo (8 Bolt Crank)	77mm	79mm	045-091B
4	97 / 1587cc	89-92	6	DOHC Prism, Prism LSi	81mm	77mm	078-097G
4	97 / 1587cc	90-92	5	DOHC Prism GSi Only	81mm	0mm	078-097N
4	97 / 1587cc	93-95	6	DOHC 16V MFI Prizm	81mm	77mm	078-097O
4	97 / 1587cc	96-97	6	DOHC 16V MFI Prizm	81mm	77mm	078-097P
4	97 / 1588cc	91-93	4XE1V, RLR	SOHC 12V MFI Storm	80mm	79mm	045-097A
4	97 / 1590cc	89-90	U	SOHC Tracker	75mm	90mm	077-097
4	97 / 1590cc	91-95	U	SOHC Tracker	75mm	90mm	077-097A
4	107 / 1762cc	96-97	8	DOHC 16V MFI Prizm (2nd Design Oil Pump)	81mm	85.5mm	078-107C
4	107 / 1762cc	93-94	8	DOHC 16V MFI Prizm	81mm	85.5mm	078-107
4	107 / 1762cc	95-97	8	DOHC 16V MFI Prizm (2nd Design Oil Pump)	81mm	85.5mm	078-107A
4	107 / 1762cc	95-95	8	DOHC 16V MFI Prizm (1st Design Oil Pump)	81mm	85.5mm	078-107B
6	152 / 2494cc	01-05	4	24V DOHC LE8 Tracker	84mm	75mm	077-152A
HONDA							
4	81 / 1335cc	80-81	EJ1	Civic	72mm	82mm	040-081
4	81 / 1335cc	82-83	EJ1	Civic	72mm	82mm	040-081A
4	82 / 1342cc	84-85	EV1,	Civic	74mm	84mm	040-082
4	82 / 1342cc	84-84	EV1,	CRX	74mm	84mm	040-082A
4	82 / 1342cc	86-87	EV1,	Civic	74mm	84mm	040-082B
4	91 / 1488cc	76-76	ED3/ED4	12V SOHC ED3/ED4 Civic	74mm	86mm	040-091H
4	91 / 1488cc	77-79	ED3/ED4	12V SOHC ED3/ED4 Civic	74mm	86mm	040-191I
4	91 / 1488cc	81-81	EM1	Civic CVCC	74mm	86.5mm	040-091
4	91 / 1488cc	82-83	EM1	Civic CVCC	74mm	86.5mm	040-091A
4	91 / 1488cc	84-85	EW1	SOHC 12V Civic, CRX	74mm	86.5mm	040-091B
4	91 / 1488cc	85-85	EW1	SOHC 8V CRX HF	74mm	86.5mm	040-091C
4	91 / 1488cc	85-85	EW3	SOHC 12V MFI CRX SI	74mm	86.5mm	040-091F
4	91 / 1488cc	86-87	EW1, D152A	SOHC 12V Civic, CRX	74mm	86.5mm	040-091D
4	91 / 1488cc	86-87	EW1, D15A2	SOHC 8V CRX HF	74mm	86.5mm	040-091E
4	91 / 1488cc	86-87	EW4, D15A3	SOHC 12V MFI CRX SI	74mm	86.5mm	040-091G
4	92 / 1493cc	88-92	D15B1, D15B2	SOHC 16V TBI Civic, CRX	75mm	84.5mm	040-092

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HONDA <i>Continued</i>							
4	92 / 1493cc	88-92	D15B6	SOHC 8V MFI CRX HF	75mm	84.5mm	040-092A
4	92 / 1493cc	92-95	D15B7	SOHC 16V MFI Civic DX, LX, DelSol S	75mm	84.5mm	040-092D
4	92 / 1493cc	92-95	D15B8	SOHC 8V MFI Civic CX	75mm	84.5mm	040-092B
4	92 / 1493cc	92-95	D15Z1	SOHC 16V Civic (V-Tec Engine)	75mm	85mm	040-092C
4	97 / 1590cc	92-95	D16Z6	16V SOHC D16Z6 Civic, Del Sol	75mm	90mm	040-097D
4	97 / 1590cc	88-92	D16A6	SOHC 16V MFI Civic Si, EX, CRX Si	75mm	90mm	040-097
4	97 / 1590cc	96-00	D16Y5	SOHC 16V Civic HX (V-Tec E Engine)	75mm	90mm	040-097A
4	97 / 1590cc	96-00	D16Y7	SOHC 16V Civic CX,DX,LX, Del Sol	75mm	90mm	040-097B
4	97 / 1590cc	96-00	D16Y8	SOHC 16V Civic EX (V-Tec Engine)	75mm	90mm	040-097C
4	98 / 1595cc	76-78	EF1	12V SOHC EF1 Accord	74mm	93mm	040-098C
4	98 / 1595cc	94-95	B16A3	16V DOHC B16A3 VTEC Civic, Del Sol	81mm	77.5mm	040-098B
4	98 / 1595cc	94-95	B16A2	DOHC 16V Civic, Del Sol (V-Tec Engine)	81mm	77.5mm	040-098
4	98 / 1595cc	96-00	B16A2	DOHC 16V Civic, Del Sol (V-Tec Engine)	81mm	77.5mm	040-098A
4	102 / 1668cc	01-05	D17A1	16V SOHC Civic DX/LX	75mm	94.4mm	040-102
4	102 / 1668cc	01-05	D17A2/A6	16V SOHC VTEC-E Civic EX/HX	75mm	94.4mm	040-102A
4	107 / 1751cc	81-81	EK1	Accord, Prelude (10mm Bolt Crank)	77mm	94mm	040-107
4	107 / 1751cc	81-81	EK1	Accord, Prelude (12mm Bolt Crank)	77mm	94mm	040-107A
4	107 / 1751cc	82-82	EK1	Accord, Prelude (AT Trans.)	77mm	94mm	040-107B
4	107 / 1751cc	82-82	EK1	Accord, Prelude (MT Trans.)	77mm	94mm	040-107C
4	107 / 1751cc	83-83	EK1	Accord, (AT Trans.)	77mm	94mm	040-107B
4	107 / 1751cc	83-83	EK1	Accord, (MT Trans.)	77mm	94mm	040-107C
4	112 / 1829cc	83-83	ES1	Prelude	80mm	91mm	040-112
4	112 / 1829cc	84-85	ES2	SOHC 12V Accord LX, DX	80mm	91mm	040-112A
4	112 / 1829cc	84-85	ET2	SOHC 12V Prelude	80mm	91mm	040-112C
4	112 / 1829cc	85-85	ES3	SOHC 12V MFI Accord SEi	80mm	91mm	040-112B
4	112 / 1829cc	86-87	ET2, A18A1	SOHC 12V Prelude	80mm	91mm	040-112D
4	119 / 1955cc	85-89	BS2, BT1, 2, A20A3	SOHC 12V MFI (Specify 12mm or 14mm Crank Bolt)	82.7mm	91mm	040-119
4	119 / 1958cc	88-88	B20A3	SOHC 12V MFI Prelude	81mm	95mm	040-119A
4	119 / 1958cc	88-91	B20A5	DOHC 16V MFI Prelude Si	81mm	95mm	040-119C
4	119 / 1958cc	89-90	B20A3	SOHC 12V MFI Prelude	81mm	95mm	040-119B
4	119 / 1958cc	97-98	B20B4	DOHC 16V CRV W/ Flywheel 12mm Bolt	84mm	89mm	040-119D
4	119 / 1958cc	97-98	B20B4	DOHC 16V CRV W/ Flywheel 14mm Bolt	84mm	89mm	040-119E
4	119 / 1997cc	99-01	B20Z2	B20Z2 16V DOHC CR-V	84mm	89mm	040-119F
4	122 / 1998cc	02-05	K20A3	DOHC 16V Civic Si	86mm	86mm	001-122
4	125 / 2056cc	90-91	B21A1	DOHC 16V MFI Prelude Si	83mm	95mm	040-125
4	132 / 2156cc	90-96	F22A1	SOHC 16V MFI Accord LX, DX, Prelude S	85mm	95mm	040-132
4	132 / 2156cc	90-91	F22A4	SOHC 16V MFI Accord EX, SE	85mm	95mm	040-132A
4	132 / 2156cc	91-93	F22A6	SOHC 16V MFI Accord EX, SE	85mm	95mm	040-132
4	132 / 2156cc	94-97	F22B1	SOHC 16V MFI Accord EX, SE (V-Tec Engine)	85mm	95mm	040-132B
4	132 / 2156cc	94-95	F22B2, F22B6	SOHC 16V MFI Accord LX, DX	85mm	95mm	040-132C
4	132 / 2156cc	96-97	F22B2, F22B6	SOHC 16V MFI Accord LX, DX	85mm	95mm	040-132D
4	132 / 2156cc	97-99	F22B2, F22B6	SOHC 16V MFI Accord LX, DX, SE	85mm	95mm	040-132D
4	133 / 2157cc	93-96	H22A1	DOHC (V-Tec Engine)	85mm	95mm	040-133

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HONDA <i>Continued</i>							
4	133 / 2157cc	97-00	H22A4	DOHC 16V Prelude Si (V-Tec Engine)	87mm	90mm	040-133A
4	138 / 2254cc	98-00	F23A1,F22A4	SOHC 16V Accord	86mm	97mm	040-138
4	138 / 2254cc	98-00	F23A5	SOHC 16V Accord	86mm	97mm	040-138A
4	138 / 2254cc	98-00	F23A7	SOHC 16V Accord	86mm	97mm	040-138B
4	138 / 2254cc	98-00	F23A7	SOHC 16V Oasis	86mm	97mm	040-138B
4	139 / 2259cc	92-95	H23A1	DOHC 16V Prelude Si	87mm	95mm	040-139
4	139 / 2259cc	96-97	H23A1	DOHC 16V Prelude Si	87mm	95mm	040-139A
4	146 / 2354cc	02-05	K24A1	DOHC 16V I-VTEC CRV	87mm	99mm	040-146
4	156 / 2559cc	94-96	4ZE1	SOHC 8V MFI Passport	92.6mm	95mm	045-156A
6	163 / 2675cc	95-97	C27A4	DOHC 24V MFI Accord	87mm	75mm	040-163
6	183 / 2997cc	00-02	J30A1	24V SOHC J30A1 Accord	86mm	86mm	040-183A
6	183 / 2997cc	98-00	J30A1	SOHC 24V Accord (V-Tec Engine)	86mm	86mm	040-183
6	193 / 3165cc	98-02	W	24V DOHC 6VD2-W (Isuzu motor) Passport	93.4mm	77mm	040-193A
6	193 / 3165cc	00-03	W	24V DOHC 6VD1-W (Isuzu motor)	93.4mm	77mm	040-193
6	193 / 3165cc	94-96	6VD1	SOHC 24V MFI Passport	93.4mm	77mm	045-193
6	193 / 3165cc	98-03	6VD1W	DOHC 24V Passport	93.4mm	77mm	045-193B
6	222 / 3500cc	98-01	J35A1	24V SOHC J35A1 VTEC Odyssey, LX, Ridgeline	89mm	93mm	040-222
HYUNDAI							
4	90 / 1468cc	86-90	G4AJ	SOHC 8V 2V Excel	75.5mm	82mm	058-090
4	90 / 1468cc	90-94	G4DJ	SOHC 8V MFI Excel	75.5mm	82mm	058-090F
4	90 / 1468cc	90-92	G4DJ	SOHC 8V MFI Scoupe	75.5mm	82mm	058-090G
4	90 / 1468cc	91-93	4G15, G4DJ	SOHC 8V Excel, Scoupe	75.5mm	82mm	058-090D
4	91 / 1495cc	93-93	G4EK	SOHC 12V Scoupe, Accent	75.5mm	83.5mm	042-091B
4	91 / 1495cc	93-95	G4EK	SOHC 12V Scoupe, Accent	75.5mm	83.5mm	042-091C
4	91 / 1495cc	95-98	D	DOHC 16V Accent	75.5mm	83.5mm	058-091A
4	91 / 1495cc	00-02	G4EK,G4EB	SOHC 12V Accent	75.5mm	83.5mm	042-091D
4	91 / 1497cc	96-00	C	SOHC 12V Accent	75.5mm	83.5mm	058-091
4	97 / 1596cc	92-95	G4CR	DOHC 16V Elantra	82mm	75mm	058-097
4	97 / 1597cc	01-05	G4ED	DOHC 16V MFI Accent	82.3mm	75mm	058-097C
4	97 / 1597cc	89-89	4G61T	DOHC 16V MFI Turbo	82.3mm	75mm	058-097A
4	97 / 1597cc	90-92	4G61	DOHC 16V MFI	82.3mm	75mm	058-097
4	97 / 1597cc	92-95	G4CR	DOHC 16V MFI Elantra	82.3mm	75mm	058-097B
4	110 / 1796cc	93-95	M	DOHC 16V Elantra	81.5mm	88mm	042-110
4	110 / 1796cc	96-99	G4GM	DOHC 16V Elantra, Tiburon	81.5mm	88mm	042-110A
4	121 / 1975cc	97-01	F	16V DOHC G4GF Tiburon, Elantra	85mm	88mm	042-122
4	121 / 1975cc	97-01	G4GF	DOHC 16V FI Tiburon	82mm	93.5mm	042-121A
4	121 / 1975cc	00-01	G4GF	DOHC 16V FI Elantra, 97-99 Tiburon	82mm	93.5mm	042-121
4	121 / 1997cc	01-08	F	16V DOHC G4GF Tiburon, Elantra	82mm	93.5mm	058-122P
4	122 / 1997cc	85-85	G63B	SOHC 8V	85mm	88mm	058-122A
4	122 / 1997cc	85-87	G63B	SOHC 8V	85mm	88mm	058-122B
4	122 / 1997cc	88-90	G63B	SOHC 8V	85mm	88mm	058-122C
4	122 / 1997cc	92-98	G4AP	DOHC 16V MFI Sonata	85mm	88mm	058-122L
4	122 / 1997cc	93-98	4G63	DOHC 16V MFI Sonata	85mm	88mm	058-122E
4	142 / 2350cc	99-05	G4JS	DOHC 16V FI Sonata, Santa Fe	86.5mm	100mm	058-143I
4	143 / 2350cc	99-03	S	16V DOHC G4JS	86.5mm	100mm	058-143G
4	143 / 2350cc	89-91	G4CS	SOHC 8V MFI Sonata	86.5mm	100mm	058-143A
6	152 / 2493cc	99-01	G6BV	24V DOHC G6BV Sonata	84mm	75mm	058-152
6	165 / 2.7L	00-05	D	24V DOHC G6BA Santa Fe, Sonata	86.7mm	75mm	058-165

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HYUNDAI Continued							
6	181 / 2972cc	89-92	6GAT	SOHC 12V MFI Sonata	91.1mm	76mm	058-181A
6	181 / 2972cc	93-95	6GAT	SOHC 12V MFI Sonata To 5-28-95	91.1mm	76mm	058-181B
6	181 / 2972cc	95-98	6GAT	SOHC 12V MFI Sonata From 5-28-95	91.1mm	76mm	058-181C
6	212 / 3467cc	02-05	6GCU	DOHC 24V MFI XG350, Sedona, Sorrento, Amanti	93mm	85.8mm	058-215C
INFINITI							
4	122 / 1998cc	99-02	SR20DE	16V DOHC SR20DE G20	86mm	86mm	059-122C
4	122 / 1998cc	91-94	SR20DE	DOHC 16V	86mm	86mm	059-122
4	122 / 1998cc	95-99	SR20DE	DOHC 16V G20	86mm	86mm	059-122A
6	181 / 2960cc	90-92	VG30E, M30	SOHC 12V MFI	87mm	83mm	043-181
6	181 / 2960cc	92-94	VG30DE	DOHC 24V J30	87mm	83mm	043-181A
6	181 / 2960cc	95-97	VG30DE	DOHC 24V J30	87mm	83mm	043-181B
6	182 / 2988cc	96-01	VQ30DE	DOHC 24V I30	93mm	73.3mm	043-182
6	193 / 3272cc	97-00	VG33E	SOHC 12V QX4	91.5mm	83mm	043-193
6	213 / 3498cc	01-01	LJ	DOHC 24V FI QX4	96.5mm	81.4mm	059-213
6	213 / 3498cc	02-04	LJ	DOHC 24V FI QX4	96.5mm	81.4mm	059-213A
8	274 / 4494cc	90-96	N	DOHC 32V FI Q45	93mm	82.7mm	043-274
8	339 / 5552cc	04-05	VK56DE	DOHC 32V FI QX56	98mm	92mm	059-339
INTERNATIONAL							
4	196 / 3.2L	71-74	L196	SCOUT W/EXH EM	4.125in.	3.656in.	044-196
4	196 / 3.2L	71-74	L196	SCOUT W/O EXH EM	4.125in.	3.656in.	044-196A
8	304 / 5.0L	70-80	V304	W/O Exhaust Emissions	3.875in.	3.219in.	044-304
8	304 / 5.0L	70-80	V304	W/ Exhaust Emissions	3.875in.	3.219in.	044-304A
8	345 / 5.7L	68-80	V345	W/O Exhaust Emissions	3.875in.	3.656in.	044-345
8	345 / 5.7L	68-80	V345	W/ Exhaust Emissions	3.875in.	3.656in.	044-345A
8	392 / 6.4L	68-80	V392	W/O Improved Cooling - W/O Exh. Emissions	4.125in.	3.656in.	044-392
8	392 / 6.4L	68-80	V392	W/O Improved Cooling - W/ Exh. Emissions	4.125in.	3.656in.	044-392A
8	392 / 6.4L	68-80	V392	W/ Improved Cooling - W/ Exh. Emissions	4.125in.	3.656in.	044-392B
8	392 / 6.4L	68-80	V392	W/ Improved Cooling - W/O Exh. Emissions	4.125in.	3.656in.	044-392C
8	404 / 6.6L	70-85	MV404		4.125in.	3.74in.	044-404
8	446 / 7.3L	70-86	MV446		4.125in.	4.18in.	044-446
8	549 / 9.0L	60-78	V549	CHECK MAINS - SER.#	4.5in.	4.313in.	044-549
8	549 / 9.0L	60-78	V549	CHECK MAINS - SER.#	4.5in.	4.313in.	044-549A
ISUZU							
4	91 / 1471cc	85-89	4XC1	SOHC 8V (6 Bolt Crank)	77mm	79mm	045-091
4	91 / 1471cc	85-89	4XC1	SOHC 8V (8 Bolt Crank)	77mm	79mm	045-091A
4	91 / 1471cc	87-89	4XC1T	SOHC 8V Turbo (8 Bolt Crank)	77mm	79mm	045-091B
4	97 / 1588cc	89-90	4XE1W, RLK	DOHC 16V MFI I-Mark, Impulse, Stylus	80mm	79mm	045-097B
4	97 / 1588cc	90-90	4XE1V, RLR	SOHC 12V MFI Stylus	80mm	79mm	045-097
4	97 / 1588cc	90-91	4XE1W, RLK	DOHC 16V MFI I-Mark, Impulse, Stylus	80mm	79mm	045-097C
4	97 / 1588cc	91-93	4XE1V, RLR	SOHC 12V MFI Stylus	80mm	79mm	045-097A
4	111 / 1817cc	81-85	G180Z	SOHC 8V I-Mark	84mm	82mm	045-111
4	119 / 1949cc	83-85	G200Z, LY8	SOHC 8V MFI Impulse	87mm	82mm	045-119A
4	119 / 1949cc	86-87	G200Z	SOHC 8V MFI Impulse	87mm	82mm	045-119B
4	122 / 1994cc	85-90	4ZC1	SOHC 8V MFI Turbo Impulse	88mm	82mm	045-122
4	132 / 2156cc	97-98	F22B6	SOHC 16V Oasis	85mm	95mm	040-132D
4	134 / 2190cc	94-96	4	OHV 8V SFI Hombre, Oasis (Chev engine)	89mm	88mm	018-134B
4	134 / 2190cc	98-02	4	OHV 8V SFI Hombre, Oasis (Chev engine)	89mm	88mm	018-134C
4	138 / 2254cc	88-90	4ZD1	SOHC 8V MFI Impulse	88mm	82mm	045-138

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ISUZU TRUCK							
4	111 / 1817cc	81-85	G180Z	SOHC 8V Pickup	84mm	82mm	045-111
4	119 / 1949cc	83-85	G200Z, LY8	SOHC 8V MFI Pickup, Trooper II	87mm	82mm	045-119A
4	119 / 1949cc	86-87	G200Z	SOHC 8V MFI Pickup, Trooper II	87mm	82mm	045-119B
4	133 / 2198cc	98-01	X22SE	DOHC 16V Amigo,Rodeo	86mm	94.6mm	045-133
4	138 / 2254cc	86-95	4ZD1, LW3	SOHC 8V MFI Pickup	88mm	82mm	045-138
4	138 / 2254cc	86-95	4ZD1, LW3	SOHC 8V MFI Trooper II	88mm	82mm	045-138A
4	156 / 2559cc	88-93	4ZE1, RHJ	SOHC 8V MFI Pickup, Rodeo, Trooper II	92.6mm	95mm	045-156
4	156 / 2559cc	94-97	4ZE1	SOHC 8V MFI Pickup, Rodeo, Trooper II	92.6mm	95mm	045-156A
6	173 / 2827cc	89-89	LL2	OHV 12V TBI Trooper II (Cast Iron Head)	89mm	76mm	019-173
6	173 / 2827cc	90-90	LL2	OHV 12V TBI Trooper II (Cast Iron Head)	89mm	76mm	019-173A
6	173 / 2827cc	91-92	LL2	OHV 12V TBI Trooper II (Cast Iron Head)	89mm	76mm	019-173B
6	191 / 3135cc	91-94	LG6	OHV 12V TBI Pickup, Rodeo (Cast Iron Head)	89mm	84mm	018-191H
6	193 / 3165cc	92-96	6VD1	SOHC 24V MFI Rodeo, Trooper	93.4mm	77mm	045-193
6	193 / 3165cc	96-97	6VD1	SOHC 24V MFI Rodeo, Trooper	93.4mm	77mm	045-193A
6	193 / 3165cc	98-03	6VD1W	DOHC 24V Amigo,Rodeo	93.4mm	77mm	045-193B
6	212 / 3494cc	98-03	6VE1	DOHC 24V Trooper	93.4mm	85mm	045-212
6	256 / 4.2L	02-03	S	DOHC 24V Vortec4200	3.663in.	4.015in.	019-256
6	256 / 4.2L	04-04	S	DOHC 24V Vortec4200 1st design	3.663in.	4.015in.	019-256A
6	256 / 4.2L	04-04	S	DOHC 24V Vortec4200 2nd design	3.663in.	4.015in.	019-256B
6	256 / 4.2L	05-05	S	DOHC 24V Vortec4200 1st design	3.663in.	4.015in.	019-256C
6	256 / 4.2L	05-05	S	DOHC 24V Vortec4200 2nd design	3.663in.	4.015in.	019-256D
6	262 / 4.3L	99-02	W, X	w/o 'T' on frnt of blk	4in.	3in.	019-262O
6	262 / 4.3L	99-02	W, X	w/ 'T' on frnt of blk	4in.	3in.	019-262P
6	262 / 4.3L	97-98	W	MFI	4in.	3.484in.	019-262J
8	325 / 5.3L	04-05	T	OHV 16V LM7 Vortec iron block Ascender	3.78in.	3.622in.	019-325C
JAGUAR							
6	258 / 4235cc	74-78	XKE	DOHC	3.625in.	4.1732in.	046-258
6	258 / 4235cc	74-78	XKE	DOHC (High Performance Pistons)	3.625in.	4.1732in.	046-258B
6	258 / 4235cc	79-87	XKE	DOHC	3.625in.	4.1732in.	046-258A
JEEP							
4	134 / 2.2L	41-65		L Head (Before 44417)	3.125in.	4.375in.	047-134
4	134 / 2.2L	41-65		L Head (After 44417)	3.125in.	4.375in.	047-134A
4	134 / 2.2L	50-73		F Head	3.125in.	4.375in.	047-134B
4	148 / 2.4L	02-04	B	DOHC 16V Liberty	87.5mm	101mm	022-148E
4	148 / 2.4L	05-06	1	DOHC 16V Liberty	87.5mm	101mm	022-148F
4	150 / 2.46L	83-85		11mm Flange Holes	3.875in.	3.19in.	003-150
4	150 / 2.46L	83-85		10mm Flange Holes	3.875in.	3.19in.	003-150A
4	150 / 2.46L	86-87		11mm Flange Holes	3.875in.	3.19in.	003-150B
4	150 / 2.46L	86-87		10mm Flange Holes	3.875in.	3.19in.	003-150C
4	150 / 2.46L	87-90	E,H		3.875in.	3.19in.	003-150D
4	150 / 2.46L	91-93	P		3.875in.	3.19in.	003-150E
4	150 / 2.46L	94-95	P		3.875in.	3.19in.	003-150F
4	150 / 2.46L	96-98	P	Lightweight Design Piston W/Coating	3.875in.	3.19in.	003-150G
4	150 / 2.5L	97-00	P		3.875in.	3.19in.	003-150H
4	150 / 2.5L	01-02	P		3.875in.	3.19in.	003-150I

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JEEP Continued							
4	151 / 2.5L	81-81	B	Pontiac Engine	4in.	3in.	003-151
4	151 / 2.5L	82-83	B	Pontiac Engine	4in.	3in.	003-151A
6	173 / 2.8L	84-84	W		89mm	86mm	018-173
6	173 / 2.8L	85-85	W	Main Journal Dia. 2.648	89mm	86mm	018-173B
6	173 / 2.8L	86-86	W	Main Journal Dia. 2.648	89mm	86mm	018-173E
6	225 / 3.7L	65-71	C		3.4in.	4.125in.	011-225
6	225 / 3.7L	02-03	K	12V SOHC VIN K Liberty	93mm	90.8mm	023-226
6	225 / 3.7L	04-05	K	12V SOHC VIN K Liberty	93mm	90.8mm	023-226A
6	232 / 3.8L	72-79			3.75in.	3.5in.	003-232
6	241 / 4.0L	99-00	S	exc. Cherokee, Wrangler, TJ	98.4mm	87mm	047-241E
6	241 / 4.0L	99-00	S	Cherokee, Wrangler, TJ	98.4mm	87mm	047-241G
6	241 / 4.0L	01-03	S		98.4mm	87mm	047-241F
6	241 / 4.0L	86-90	L,M,S		98.4mm	87mm	047-241
6	241 / 4.0L	91-91			98.4mm	87mm	047-241A
6	241 / 4.0L	92-93	S		98.4mm	87mm	047-241B
6	241 / 4.0L	94-95	S		98.4mm	87mm	047-241C
6	241 / 4.0L	96-98	S		98.4mm	87mm	047-241D
6	258 / 4.2L	72-78			3.75in.	3.906in.	003-258
6	258 / 4.2L	79-80			3.75in.	3.906in.	003-258A
6	258 / 4.2L	81-85			3.75in.	3.906in.	003-258B
6	258 / 4.2L	86-86		Plastic Valve Cover	3.75in.	3.906in.	003-258C
6	258 / 4.2L	86-86		Aluminum Valve Cover	3.75in.	3.906in.	003-258D
6	258 / 4.2L	87-90		Serpentine Belt Pulley	3.75in.	3.906in.	003-258E
6	258 / 4.2L	87-90		Serpentine Belt Pulley (Aluminum Valve Covers)	3.75in.	3.906in.	003-258F
8	287 / 4.7L	99-03	N	16V SOHC VIN N	3.662in.	3.4in.	023-287
8	287 / 4.7L	04-06	N, J	16V SOHC VIN N,J w/o bearing locating tang	3.662in.	3.4in.	023-287A
8	287 / 4.7L	04-06	N, J	16V SOHC VIN N,J with bearing locating tang	3.662in.	3.4in.	023-287B
8	304 / 5.0L	72-81			3.75in.	3.438in.	003-304
8	318 / 5.2L	98-01	Y	16V OHV (Check OE rings)	3.91in.	3.313in.	023-318L
8	318 / 5.2L	02-03	Y	16V OHV (Manual Trans,Check OE rings)	3.91in.	3.313in.	023-318M
8	318 / 5.2L	02-03	Y	16V OHV (Auto Trans,Check OE rings)	3.91in.	3.313in.	023-318N
8	318 / 5.2L	93-95	Y	Auto. Trans. Magnum Eng. (Roller Lifters)	3.91in.	3.313in.	023-318G
8	318 / 5.2L	93-95	Y	Std. Trans. Magnum Eng. (Roller Lifters)	3.91in.	3.313in.	023-318H
8	318 / 5.2L	96-98	Y		3.91in.	3.313in.	023-318K
8	350 / 5.7L	68-71		Buick Engine	3.8in.	3.85in.	011-350
8	360 / 5.9L	98-01	5,Z	Magnum Eng. (Manual Trans)	4in.	3.578in.	023-360ZE
8	360 / 5.9L	98-01	5,Z	Magnum Eng. (Auto Trans)	4in.	3.578in.	023-360ZG
8	360 / 5.9L	02-03	Z	Magnum Eng. (Manual Trans)	4in.	3.578in.	023-360ZF
8	360 / 5.9L	72-78			4.08in.	3.438in.	003-360
8	360 / 5.9L	78-91		W/ 1/2 Chain	4.08in.	3.438in.	003-360A
8	360 / 5.9L	97-98	Z	Magnum Eng. A.T.	4in.	3.578in.	023-360ZC
8	360 / 5.9L	97-98	Z	Magnum Eng. M.T.	4in.	3.578in.	023-360ZD
8	401 / 6.6L	74-78			4.165in.	3.68in.	003-401
KIA							
4	91 / 1493cc	01-02	3	16V DOHC DC	75.5mm	83mm	052-091A
4	97 / 1597cc	94-95	B6D	SOHC 16V Sephia	78mm	84mm	052-097H
4	97 / 1597cc	96-97	B6	DOHC 16V Sephia	78mm	84mm	052-097J
4	109 / 1794cc	98-02	FB	16V DOHC FB Sephia, Spectra	81mm	87mm	052-109A
4	112 / 1839cc	94-98	BP	DOHC 16V MFI Sephia	83mm	85mm	052-112C

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KIA Continued							
4	121 / 1975cc	05-05	G4GF	16V DOHC FI Spectra, Sportage	82mm	93.5mm	052-121A
4	122 / 1998cc	95-99	FS	DOHC 16V Sportage	86mm	86mm	052-121B
4	143 / 2350cc	99-03		16V DOHC G4JS Optima(Hyundai motor)	86.5mm	100mm	042-143
6	152 / 2493cc	01-02		24V DOHC G6BV(Hyundai motor)Optima	86.7mm	75mm	042-152
6	165 / 2.7L	00-05	D	24V DOHC G6BA Optima, Sportage	86.7mm	75mm	058-165
6	165 / 2657cc	02-03		24V DOHC G6BA(Hyundai motor)Optima	86.7mm	76.3mm	042-165
LEXUS							
6	153 / 2507cc	90-91	2VZFE	DOHC 24V MFI	87.5mm	69.6mm	049-153
6	181 / 2958cc	92-93	3VZFE	DOHC 24V MFI	87.5mm	82mm	049-181
6	183 / 2995cc	00-03	1MZFE	SFI ES300, RX300	87.4mm	83mm	049-183B
6	183 / 2995cc	94-95	1MZFE	DOHC 24V MFI ES300	87.4mm	82mm	049-183
6	183 / 2995cc	96-99	1MZFE	DOHC 24V MFI ES300, RX300	87.4mm	82mm	049-183A
6	184 / 2997cc	92-95	2JZGE	DOHC 24V GS300,SC300	86mm	86mm	049-184
6	184 / 2997cc	96-04	2JZGE	DOHC 24V GS300,SC300, IS300	86mm	86mm	049-184A
6	202 / 3310cc	04-05	3MZFE	DOHC 24V RX330, ES330	92mm	83mm	078-202
6	273 / 4477cc	93-97	1FZFE	DOHC 24V LX450	100mm	95mm	078-273
8	287 / 4663cc	00-05	2UZFE	DOHC 32V VVT-I LX470, GX470	94mm	84mm	078-287
MAZDA							
4	91 / 1489cc	95-99	Z5	DOHC 16V Protégé	75.3mm	83.6mm	052-091
4	97 / 1586cc	70-77	N	8V SOHC B1600	78mm	83mm	052-097K
4	97 / 1597cc	86-86	B6	SOHC 8V MFI	78mm	84mm	052-097
4	97 / 1597cc	86-87	B6	SOHC 8V MFI	78mm	84mm	052-097A
4	97 / 1597cc	88-89	B6	SOHC 8V MFI	78mm	84mm	052-097B
4	97 / 1597cc	88-89	B6E	DOHC 16V MFI Turbo	78mm	84mm	052-097G
4	97 / 1597cc	89-93	B6	DOHC 16V MFI Standard Trans.	78mm	84mm	052-097D
4	97 / 1597cc	89-93	B6	DOHC 16V MFI Auto Trans.	78mm	84mm	052-097E
4	97 / 1597cc	90-94	B6	SOHC 8V MFI	78mm	84mm	052-097C
4	97 / 1597cc	92-93	B6	SOHC 16V MFI MX3	78mm	84mm	052-097F
4	97 / 1597cc	94-95	B6D	DOHC 16V MX3	78mm	84mm	052-097H
4	98 / 1597cc	99-02	ZM	16V DOHC PROTÉGÉ	78mm	83.6mm	052-097L
4	112 / 1839cc	90-93	BP	SOHC 16V MFI	83mm	85mm	052-112
4	112 / 1839cc	90-93	BP	DOHC 16V MFI Protege	83mm	85mm	052-112A
4	112 / 1839cc	94-94	BP	SOHC 16V MFI	83mm	85mm	052-112B
4	112 / 1839cc	94-98	BP	DOHC 16V MFI Miata	83mm	85mm	052-112C
4	112 / 1839cc	94-95	BPD	DOHC 16V MFI MX5, Protégé	83mm	85mm	052-112D
4	112 / 1839cc	96-96	BPD	DOHC 16V MFI Protégé	83mm	85mm	052-112E
4	112 / 1839cc	97-99	BPD	DOHC 16V MFI Protégé	83mm	85mm	052-112F
4	120 / 1970cc	79-84	MA		80mm	98mm	052-120
4	121 / 1991cc	93-97	FS	DOHC 16V 626, MX6	83mm	92mm	052-122E
4	121 / 1991cc	98-03	FS	DOHC 16V 626, Protégé	83mm	92mm	052-122F
4	121 / 1991cc	93-94	FS	DOHC 16V MFI	83mm	92mm	052-121
4	121 / 1991cc	95-97	FS	DOHC 16V MFI	83mm	92mm	052-121A
4	122 / 1998cc	98-99	FS	16V DOHC FS MR2, MS6, 626, Protégé	86mm	86mm	052-122E
4	122 / 1998cc	00-03	FS	16V DOHC FS MR2, MS6, 626, Protégé	86mm	86mm	052-122F
4	122 / 1998cc	83-84	FE, FEH1	626	86mm	86mm	052-122
4	122 / 1998cc	84-85	FE, FEH1	626	86mm	86mm	052-122A
4	122 / 1998cc	86-87	FE, FEH1	626	86mm	86mm	052-122B
4	122 / 1998cc	86-87	FE, FEH5	Turbo	86mm	86mm	052-122C

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MAZDA <i>Continued</i>							
4	133 / 2184cc	88-92	F2	SOHC 12V EFI 626, MX6	86mm	94mm	052-133
4	133 / 2184cc	88-92	F2	SOHC Turbo 12V EFI 626, MX6	86mm	94mm	052-133A
6	138 / 2255cc	94-99	KJ	DOHC 24V Millenia	80.3mm	74.2mm	052-138
6	138 / 2255cc	98-98	KJ	DOHC Supercharged 24V Millenia	80mm	74mm	052-138A
4	140 / 2260cc	03-04	L3	DOHC 16V 23EW 3, 6	87.5mm	94mm	052-140
4	140 / 2260cc	05-06	L3	DOHC 16V 23EW 3, 6	87.5mm	94mm	052-140A
6	153 / 2497cc	89-92	KL	DOHC 24V MFI	84.5mm	74.2mm	052-153B
6	153 / 2497cc	98-02	KL	DOHC 24V MFI	84.5mm	74.2mm	052-153A
6	153 / 2497cc	93-97	KL	DOHC 24V MFI	84.5mm	74.2mm	052-153
4	159 / 2606cc	89-94	G6	SOHC 12V MFI	92mm	98mm	052-159
6	180 / 2954cc	88-93	JE	SOHC 18V MFI	90mm	77.4mm	052-180
6	180 / 2954cc	90-91	JE24, JE48	DOHC 24V MFI	90mm	77.4mm	052-180B
6	180 / 2954cc	92-96	JE24, JE48	DOHC 24V MFI	90mm	77.4mm	052-180C
6	180 / 2954cc	94-99	JE	SOHC 18V MFI	90mm	77.4mm	052-180A
6	180 / 2954cc	96-97	JE	SOHC 18V MFI	90mm	77.4mm	052-180D
MAZDA TRUCK							
4	120 / 1970cc	79-85	MA	B2000	80mm	98mm	052-120A
4	122 / 1998cc	86-87	FE	B2000	86mm	86mm	052-122D
4	133 / 2184cc	87-93	F2G, F2L	SOHC 8V MFI, 2V	86mm	94mm	052-133B
4	140 / 2.3L	01-03	D	DOHC-Duratec 16V, B2300	3.445in.	3.701in.	036-140I
4	140 / 2.3L	04-05	D	DOHC-Duratec 16V, B2300	3.445in.	3.701in.	036-140J
4	140 / 2298cc	94-94	A	SOHC 8V MFI (Ford Engine)	3.78in.	3.125in.	035-140H
4	140 / 2298cc	95-97	A	SOHC 8V MFI (Ford Engine)	3.78in.	3.125in.	036-140E
4	150 / 2.5L	98-98	C	SOHC Ranger	3.779in.	3.405in.	036-140G
4	152 / 2.5L	99-02	C	8V SOHC VIN C TRUCK	3.779in.	3.405in.	036-140H
4	156 / 2555cc	87-88	G54B, AM1	SOHC 8V FWD (Mitsubishi Eng)	91.1mm	98mm	058-156A
4	156 / 2555cc	87-88	G54B, AM1	SOHC 8V FWD W/ Bal. Shaft Elim. Kit (Mits.Eng.)	91.1mm	98mm	058-156B
4	156 / 2555cc	87-88	G54B, AM1	SOHC 8V RWD W/ Bal. Shaft Kit (Mitsubishi Eng)	91.1mm	98mm	058-156D
4	156 / 2555cc	87-88	G54B, AM1	SOHC 8V RWD W/ Bal. Shaft Elim.Kit (Mits. Eng.)	91.1mm	98mm	058-156E
4	159 / 2606cc	89-94	G6	SOHC 12V MFI	92mm	98mm	052-159
6	180 / 2954cc	88-93	JE	SOHC 18V MFI	90mm	77.4mm	052-180
6	180 / 2954cc	94-99	JE	SOHC 18V MFI	90mm	77.4mm	052-180A
6	180 / 2954cc	96-98	JE	SOHC 18V MFI MPV W/ 1/2 Oil Pump Drive	90mm	77.4mm	052-180B
6	183 / 2968cc	94-95	U	OHV 12V MFI MPV (Ford Engine)	89mm	80mm	036-183D
6	183 / 3.0L	00-01	U	OHV 12V EFI B3000	87mm	83mm	036-183K
6	183 / 3.0L	02-03	U	OHV 12V EFI B3000	87mm	83mm	036-183L
6	183 / 3.0L	04-06	U	OHV 12V EFI B3000	87mm	83mm	036-183M
6	183 / 3.0L	96-96	U	OHV 12V EFI Ranger	87mm	83mm	036-183G
6	244 / 4.0L	99-02	X	B4000(Ford motor)	3.9527in.	3.307in.	036-244H
6	244 / 4.0L	01-01	E,K	B4000(Ford motor)	3.9527in.	3.307in.	036-244L
6	244 / 4.0L	02-03	E,K	B4000(Ford motor)	3.9527in.	3.307in.	036-244M
6	244 / 4016cc	90-92	X	OHV 12V MFI (Ford Engine)	100mm	84mm	036-244A
6	244 / 4016cc	95-96	X	OHV 12V MFI (Ford Engine)	100mm	84mm	036-244E
6	244 / 4016cc	97-98	X	OHV 12V MFI (Ford Engine)	100mm	84mm	036-244F

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MERKUR							
4	140 / 2.3L	85-86	T, W	OHC Turbo To 7/15/86	3.78in.	3.125in.	035-140I
4	140 / 2.3L	86-86	T, W	OHC Turbo From 7/15/86 To 11/12/86	3.78in.	3.125in.	035-140J
4	140 / 2.3L	87-88	W	OHC Turbo	3.78in.	3.125in.	035-140K
4	140 / 2.3L	89-89	W	OHC Turbo	3.78in.	3.125in.	035-140L
6	177 / 2.9L	87-90	V	Scorpio	3.656in.	2.703in.	036-177
MITSUBISHI							
4	90 / 1468cc	85-86	G15B, G4AJ	SOHC 8V	75.5mm	82mm	058-090
4	90 / 1468cc	86-88	G15B, G4AJ	SOHC 8V (2nd Design Timing)	75.5mm	82mm	058-090A
4	90 / 1468cc	88-89	G15B, G4AJ	SOHC 8V (2nd Design Rod Brgs.)	75.5mm	82mm	058-090B
4	90 / 1468cc	89-90	4G15, G4DJ	SOHC 8V MFI	75.5mm	82mm	058-090C
4	90 / 1468cc	91-92	4G15	SOHC 12V MFI	75.5mm	82mm	058-090E
4	90 / 1468cc	91-93	4G15, G4DJ	SOHC 8V	75.5mm	82mm	058-090D
4	90 / 1468cc	93-95	4G15	SOHC 12V MFI	75.5mm	82mm	058-090F
4	90 / 1468cc	96-96	4G15	SOHC 12V MFI	75.5mm	82mm	058-090H
4	90 / 1468cc	97-01	4G15	SOHC 12V MFI	75.5mm	82mm	058-090I
4	97 / 1597cc	89-89	4G61T	DOHC 16V MFI Turbo	82.3mm	75mm	058-097A
4	97 / 1597cc	90-92	4G61	DOHC 16V MFI	82.3mm	75mm	058-097
4	98 / 1597cc	85-86	F	SOHC 8V TURBO Mirage	77mm	86mm	058-098
4	98 / 1597cc	87-88	F	SOHC 8V TURBO Mirage	77mm	86mm	058-098A
4	107 / 1755cc	89-94	4G37	SOHC 8V MFI	80.6mm	86mm	058-107
4	111 / 1834cc	97-01	4G93	SOHC 16V MFI	81mm	75mm	058-112B
4	111 / 1834cc	97-01	4G93	SOHC 16V MFI Mirage	81mm	88mm	058-112B
4	112 / 1834cc	92-95	4G93	SOHC 16V MFI	81mm	89mm	058-112
4	112 / 1834cc	96-96	4G93	SOHC 16V MFI Mirage	81mm	89mm	058-112A
4	112 / 1834cc	97-99	4G93	SOHC 16V MFI Mirage	81mm	89mm	058-112
4	112 / 1996cc	96-99	420A	DOHC Eclipse, Eclipse Spyder	87.5mm	83mm	058-112
4	122 / 1997cc	93-93	4G63K	SOHC 16V MFI Gallant	85mm	88mm	058-122Q
4	122 / 1997cc	98-99	4G63T	DOHC 16V MFI Turbo Eclipse	85mm	88mm	058-122HB
4	122 / 1997cc	83-84	G63B	SOHC 8V (Mech.)	85mm	88mm	058-122
4	122 / 1997cc	84-85	G63B	SOHC 8V (Hyd.)	85mm	88mm	058-122A
4	122 / 1997cc	85-87	G63B	SOHC 8V 2nd Design Aux. Brgs.	85mm	88mm	058-122B
4	122 / 1997cc	87-89	G63B	SOHC 8V 2nd Design Timing	85mm	88mm	058-122C
4	122 / 1997cc	89-92	4G63	SOHC 8V MFI	85mm	88mm	058-122D
4	122 / 1997cc	89-92	4G63	DOHC 16V MFI Turbo	85mm	88mm	058-122F
4	122 / 1997cc	93-94	4G63	DOHC 16V MFI	85mm	88mm	058-122E
4	122 / 1997cc	93-94	4G63T	DOHC 16V MFI Turbo	85mm	88mm	058-122G
4	122 / 1997cc	95-98	4G63T	DOHC 16V MFI Turbo Eclipse	85mm	88mm	058-122HA
4	122 / 1997cc	95-95	4G63T	DOHC 16V MFI Turbo	85mm	88mm	058-122I
4	122 / 2.0L	96-99	A588/A420	A588/A420 16V DOHC ECLIPSE	87.5mm	83mm	022-122F
4	143 / 2350cc	99-04	4G64	SOHC 16V MFI Eclipse, Galant	86.5mm	100mm	058-143H
4	143 / 2350cc	85-88	4G64	SOHC 8V MFI	86.5mm	100mm	058-143A
4	143 / 2350cc	85-85	G64B	SOHC 8V MFI	86.5mm	100mm	058-143
4	143 / 2350cc	89-92	4G64	SOHC 8V MFI	86.5mm	100mm	058-143D
4	143 / 2350cc	93-98	4G64	SOHC 16V MFI Expo, Galant	86.5mm	100mm	058-143B
4	143 / 2350cc	93-98	4G64	SOHC 16V MFI Eclipse	86.5mm	100mm	058-143F
4	143 / 2350cc	96-96	4G64	DOHC 16V MFI Galant	86.5mm	100mm	058-143E
4	146 / 2378cc	04-06	4G69	SOHC 16V FWD Eclipse, Gallant	87mm	100mm	058-146
4	156 / 2555cc	83-84	G54B	SOHC 8V RWD (Mech.)	91.1mm	98mm	058-156
4	156 / 2555cc	84-89	G54B	SOHC FWD	91.1mm	98mm	058-156A

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MITSUBISHI <i>Continued</i>							
4	156 / 2555cc	84-89	G54B	SOHC FWD W/ Bal. Shaft Elim. Kit	91.1mm	98mm	058-156B
4	156 / 2555cc	84-90	G54B	SOHC MFI Turbo	91.1mm	98mm	058-156C
6	158 / 2972cc	91-92	6G72	DOHC 24V MFI 3000 GT, Diamante	91.1mm	76mm	058-158C
6	181 / 2972cc	99-99	6G72	SOHC 24V MFI Galant, Eclipse	91.1mm	76mm	058-181J
6	181 / 2972cc	00-03	6G72	SOHC 24V MFI Galant, Eclipse	91.1mm	76mm	058-181K
6	181 / 2972cc	88-89	6G72	SOHC 12V MFI	91.1mm	76mm	058-181
6	181 / 2972cc	90-92	6G72	SOHC 12V MFI	91.1mm	76mm	058-181A
6	181 / 2972cc	93-95	6G72	SOHC 12V MFI	91.1mm	76mm	058-181B
6	181 / 2972cc	93-98	6G72	DOHC 24V MFI 3000 GT, Diamante	91.1mm	76mm	058-181F
6	181 / 2972cc	97-98	6G72	SOHC 12V MFI Daimante	91.1mm	76mm	058-181G
6	181 / 2972cc	97-98	6G72	SOHC 12V MFI GT3000	91.1mm	76mm	058-181H
6	181 / 3.0L	91-92	6G72	DOHC 24V Turbo 3000 GT	91.1mm	76mm	058-181D
6	181 / 3.0L	93-99	6G72	DOHC 24V Turbo 3000 GT	91.1mm	76mm	058-181E
6	215 / 3497cc	97-00	6G74	SOHC 24V Diamante	93mm	86mm	058-215
6	234 / 3828cc	03-05	6G75	SOHC 24V MFI Gallant, Endeavor	95mm	90mm	058-234A
MITSUBISHI TRUCK							
4	122 / 1997cc	89-92	G63B	SOHC 8V	85mm	88mm	058-122R
4	122 / 1997cc	83-84	G63B	SOHC 8V (Mech.)	85mm	88mm	058-122
4	122 / 1997cc	84-85	G63B	SOHC 8V (Hyd.)	85mm	88mm	058-122A
4	122 / 1997cc	85-87	G63B	SOHC 8V 2nd Design Aux. Brgs.	85mm	88mm	058-122B
4	122 / 1997cc	87-89	G63B	SOHC 8V 2nd Design Timing	85mm	88mm	058-122C
4	143 / 2350cc	87-92	4G64	SOHC 8V MFI	86.5mm	100mm	058-143A
4	143 / 2350cc	93-96	4G64	SOHC 8V MFI	86.5mm	100mm	058-143B
4	144 / 2351cc	97-99	G64FR	SOHC Montero Sport	86.5mm	100mm	058-144
4	146 / 2378cc	04-06	4G69	SOHC 16V FWD Outlander	87mm	100mm	058-146
4	146 / 2378cc	04-06	4G69	SOHC 16V AWD Outlander	87mm	100mm	058-146A
4	156 / 2555cc	83-84	G54B	SOHC 8V RWD (Mech.)	91.1mm	98mm	058-156
4	156 / 2555cc	84-90	G54B	SOHC 8V FWD (Mitsubishi Eng)	91.1mm	98mm	058-156A
4	156 / 2555cc	84-90	G54B	SOHC 8V FWD W/ Bal. Shaft Elim. Kit (Mits.Eng.)	91.1mm	98mm	058-156B
6	181 / 2972cc	99-04	H	SOHC 12V MFI Montero	91.1mm	76mm	058-181I
6	181 / 2972cc	89-89	6G72	SOHC 12V MFI	91.1mm	76mm	058-181
6	181 / 2972cc	90-92	6G72	SOHC 12V MFI Montero	91.1mm	76mm	058-181A
6	181 / 2972cc	93-95	6G72	SOHC 12V MFI	91.1mm	76mm	058-181B
6	181 / 2972cc	96-99	6G72	SOHC 12V MFI Montero	91.1mm	76mm	058-181G
6	215 / 3497cc	94-96	6G74	DOHC 24V Montero, Montero Sport	93mm	86mm	058-215A
6	215 / 3497cc	97-02	6G74	DOHC 24V Montero, Montero Sport	93mm	86mm	058-215B
6	215 / 3497cc	97-99	6G74	SOHC 24V Montero, Montero Sport	93mm	86mm	058-215
6	234 / 3828cc	03-05	6G75	SOHC 24V MFI Montero	95mm	90mm	058-234
NISSAN							
4	76 / 1237cc	81-82	A12A		75mm	70mm	059-076
4	86 / 1397cc	74-80	A14	RWD	76mm	77mm	059-086
4	86 / 1397cc	79-82	A14	FWD	76mm	77mm	059-086A
4	91 / 1488cc	79-82	A15	210, 310	76mm	82mm	059-091
4	91 / 1488cc	82-85	E15		76mm	82mm	059-091A
4	91 / 1488cc	83-85	E15	Turbo	76mm	82mm	059-091B
4	97 / 1595cc	67-73	L16	8V OHV L16	83mm	74mm	059-097E
4	97 / 1597cc	83-87	E16	SOHC 8V	76mm	82mm	059-097

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NISSAN <i>Continued</i>							
4	97 / 1597cc	86-88	E16I, E16S	SOHC 8V TBI	76mm	88mm	059-097A
4	97 / 1597cc	89-90	GA16I	SOHC 12V MFI	76mm	88mm	059-097B
4	97 / 1597cc	91-94	GA16DE	DOHC 16V MFI	76mm	88mm	059-097C
4	97 / 1597cc	95-99	GA16DE	DOHC 16V MFI Sentra, SX200	76mm	88mm	059-097D
4	104 / 1680cc	83-86	CD17	Diesel (1-Groove Head Gasket)	83mm	84mm	059-104
4	104 / 1680cc	83-86	CD17	Diesel (2-Grooved Head Gasket)	83mm	84mm	059-104A
4	104 / 1680cc	83-86	CD17	Diesel (3-Grooved Head Gasket)	83mm	84mm	059-104B
4	108 / 1769cc	00-02	QG18DE	16V DOHC QG18DE Sentra	80mm	88mm	059-108A
4	108 / 1769cc	03-05	QG18DE	16V DOHC QG18DE Sentra	80mm	88mm	059-108
4	110 / 1809cc	84-86	CA18ET	SOHC 8V MFI Turbo M/T thru 6/30/86	83mm	83.6mm	059-110C
4	110 / 1809cc	84-86	CA18ET	SOHC 8V MFI Turbo A/T thru 6/30/86	83mm	83.6mm	059-110D
4	110 / 1809cc	86-87	CA18ET	SOHC 8V MFI Turbo M/T from 7/1/86	83mm	83.6mm	059-110A
4	110 / 1809cc	86-87	CA18ET	SOHC 8V MFI Turbo A/T from 7/1/86	83mm	83.6mm	059-110B
4	110 / 1809cc	88-90	CA18D	DOHC 16V MFI	83mm	83.6mm	059-110
4	119 / 1952cc	80-81	Z20E, Z20S	200SX, 510	85mm	86mm	059-119
4	119 / 1974cc	74-76	L20B	8V SOHC L20B	85mm	86mm	059-119A
4	119 / 1974cc	77-80	L20B	8V SOHC L20B	85mm	86mm	059-119B
4	120 / 1974cc	82-86	CA20E, CA20S	SOHC 8V MFI Stanza (Exc. 4WD)	83mm	84mm	059-120
4	120 / 1974cc	84-88	CA20E	SOHC 8V MFI 200SX, Stanza Wagon (Exc. 4WD)	83mm	84mm	059-120
4	120 / 1974cc	87-88	CA20E	SOHC 8V MFI Stanza (Exc. 4WD)	83mm	84mm	059-120A
4	120 / 1974cc	89-89	CA20E	SOHC 8V MFI Stanza Wagon (Exc. 4WD)	83mm	84mm	059-120
4	120 / 1974cc	89-89	CA20E	SOHC 8V MFI Stanza (Exc. 4WD)	83mm	84mm	059-120A
4	122 / 1998cc	00-01	SR20DE	16V DOHC SR20DE Sentra	86mm	86mm	059-122C
4	122 / 1998cc	91-94	SR20DE	DOHC 16V MFI Sentra, SX200	86mm	86mm	059-122
4	122 / 1998cc	95-99	SR20DE	DOHC 16V MFI Sentra, SX200	86mm	86mm	059-122A
4	122 / 1998cc	97-98	SR20DE	DOHC 16V MFI Sentra, SX200, NX	86mm	86mm	059-122B
4	133 / 2187cc	82-83	Z22E		87mm	92mm	059-133A
4	145 / 2389cc	98-01	KA24DE	16V DOHC KA24DE ALTIMA	89mm	96mm	059-145H
4	145 / 2389cc	87-89	Z24I, Z24S	SOHC 8V MFI	89mm	96mm	059-145E
4	145 / 2389cc	89-92	KA24E	SOHC 12V MFI 240SX	89mm	96mm	059-145
4	145 / 2389cc	89-93	KA24E	SOHC 12V MFI Axxess, Stanza	89mm	96mm	059-145A
4	145 / 2389cc	91-94	KA24DE	DOHC 16V MFI 240SX	89mm	96mm	059-145B
4	145 / 2389cc	93-95	KA24DE	DOHC 16V MFI Altima	89mm	96mm	059-145C
4	145 / 2389cc	95-96	KA24DE	DOHC 16V MFI 240SX	89mm	96mm	059-145D
4	145 / 2389cc	96-96	KA24DE	DOHC 16V MFI Altima	89mm	96mm	059-145F
4	145 / 2389cc	97-97	KA24DE	DOHC 16V MFI 240SX	89mm	96mm	059-145D
6	146 / 2393cc	81-82	L24E	SOHC MFI	83mm	73.7mm	059-146
6	146 / 2393cc	82-84	L24E	SOHC MFI	83mm	73.7mm	059-146A
4	152 / 2488cc	02-05	QR25DE	DOHC 16V FI Sentra, Altima	89mm	100mm	059-152D
6	168 / 2753cc	81-83	L28E	SOHC MFI	86mm	79mm	059-168
6	168 / 2753cc	81-83	L28ET	SOHC MFI Turbo	86mm	79mm	059-168A
6	180 / 2960cc	84-87	V30E, VG30, VG30E	SOHC 12V MFI W/1 Keyway (Exc. Quest)	87mm	83mm	059-180
6	180 / 2960cc	87-87	V30E, VG30, VG30E	SOHC 12V MFI W/ 2 Keyway (Exc. Quest)	87mm	83mm	059-180A
6	180 / 2960cc	88-94	V30E, VG30, VG30E	SOHC 12V MFI W/ 2 Keyway (Exc. Quest)	87mm	83mm	059-180B
6	180 / 2960cc	90-94	VG30DE	DOHC 24V 300ZX	87mm	83mm	059-180I

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NISSAN <i>Continued</i>							
6	180 / 2960cc	90-94	VG30DETT	DOHC 24V Turbo 300ZX (1st Design Oil Pump)	87mm	83mm	059-180G
6	180 / 2960cc	94-96	VG30DETT	DOHC 24V Turbo 300ZX (1st Design Oil Pump)	87mm	83mm	059-180H
6	180 / 2960cc	95-97	VG30DE	DOHC 24V 300ZX	87mm	83mm	059-180J
6	182 / 2988cc	00-01	VQ30DE	DOHC 24V Maxima	93mm	73.3mm	059-182A
6	182 / 2988cc	95-99	VQ30DE	DOHC 24V Maxima	93mm	73.3mm	059-182
6	183 / 2960cc	93-93	VG30E	SOHC 12V MFI Quest	87mm	83mm	059-183
6	183 / 2960cc	94-96	VG30E	SOHC 12V MFI Quest	87mm	83mm	059-183A
6	213 / 3498cc	02-05		DOHC 24V FI Altima, Maxima, I35	96.5mm	81.4mm	059-213B
6	213 / 3498cc	03-06		DOHC 24V FI 350Z	96.5mm	81.4mm	059-213D
NISSAN TRUCK							
4	119 / 1952cc	83-86	Z20		85mm	86mm	059-119
4	133 / 2187cc	81-82	Z22S		87mm	92mm	059-133
4	145 / 2389cc	00-05	KA24DE	16V DOHC KA24DE XTERRA	89mm	96mm	059-145I
4	145 / 2389cc	83-89	Z24, Z24I	SOHC TBI (Exc. 720)	89mm	96mm	059-145E
4	145 / 2389cc	83-89	Z24, Z24I, Z24S	SOHC 8V 720 Pick-Up	89mm	96mm	059-145F
4	145 / 2389cc	90-97	KA24E	SOHC 12V MFI Pick-Up	89mm	96mm	059-145
4	145 / 2389cc	98-98	KA24DE	DOHC 12V MFI Pick-Up	89mm	96mm	059-145G
4	152 / 2488cc	83-88	SD25	Diesel 2WD W/O Air Conditioning	89mm	100mm	059-152
4	152 / 2488cc	83-88	SD25	Diesel 2WD W/ Air Conditioning	89mm	100mm	059-152A
4	152 / 2488cc	83-88	SD25	Diesel 4WD W/ Air Conditioning	89mm	100mm	059-152B
4	152 / 2488cc	83-88	SD25	Diesel 4WD W/O Air Conditioning	89mm	100mm	059-152C
6	180 / 2960cc	86-87	V30E, VG30, VG30E	SOHC 12V MFI & TBI W/ 2WD	87mm	83mm	059-180B
6	180 / 2960cc	86-87	VG30, VG30E	SOHC 12V MFI & TBI W/4WD	87mm	83mm	059-180D
6	180 / 2960cc	88-95	VG30, VG30E	SOHC 12V MFI W/ 2 WD Pick-Up & Pathfinder	87mm	83mm	059-180C
6	180 / 2960cc	88-95	VG30, VG30E	SOHC 12V MFI W/4WD Pick-Up & Pathfinder	87mm	83mm	059-180E
6	180 / 2960cc	94-95	VG30E	SOHC 12V MFI Quest	87mm	83mm	059-180F
6	180 / 2960cc	96-96	VG30E	SOHC 12V MFI Quest	87mm	83mm	059-180K
6	180 / 2960cc	97-98	VG30E	SOHC 12V MFI Quest	87mm	83mm	059-180L
6	199 / 3275cc	96-02	VG33E	SOHC Frontier, Pathfinder, Quest, Xterra	91.5mm	83mm	059-199
6	213 / 3498cc	01-01	LJ	DOHC 24V FI Pathfinder, FX35	96.5mm	81.4mm	059-213
6	213 / 3498cc	02-04	LJ	DOHC 24V FI Pathfinder, QX4	96.5mm	81.4mm	059-213A
6	213 / 3498cc	03-07		DOHC 24V FI Murano	96.5mm	81.4mm	059-213B
6	213 / 3498cc	04-07		DOHC 24V FI Quest	96.5mm	81.4mm	059-213C
8	339 / 5552cc	04-05	VK56DE	DOHC 32V FI Titan, Armada	98mm	92mm	059-339
OLDSMOBILE							
4	112 / 1.8L	82-86	0	OHC	84.8mm	80mm	069-112
4	112 / 1.8L	82-82	G	OHV	89mm	74mm	018-112
4	121 / 2.0L	83-83	B, P	OHV	89mm	80mm	018-121
4	121 / 2.0L	84-84	B, P	OHV W/ Oil Slinger	89mm	80mm	018-121A
4	121 / 2.0L	84-84	B, P	OHV W/O Oil Slinger & Direct Mag. Ign.	89mm	80mm	018-121B
4	121 / 2.0L	85-86	P	OHV	89mm	80mm	018-121C
4	121 / 2.0L	87-88	1	OHV	89mm	80mm	018-121D
4	122 / 2.0L	87-88	K		3.386in.	3.386in.	069-122
4	134 / 2.2L	02-05	F	DOHC L61 ECOTEC Alero	86mm	94.6mm	018-134D
4	134 / 2.2L	93-93	4	Roller Cam	89mm	88mm	018-134A
4	134 / 2.2L	94-96	4	SOHC MFI	89mm	88mm	018-134B

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OLDSMOBILE <i>Continued</i>							
4	138 / 2.3L	95-95	D	DOHC (2nd Design Timing & MFI w/ AT)	92mm	85mm	060-138G
4	138 / 2.3L	88-88	D	DOHC (1st Design Timing & MFI W/AT)	92mm	85mm	060-138
4	138 / 2.3L	89-91	A	DOHC (1st Design Timing & W/ MT)	92mm	85mm	060-138C
4	138 / 2.3L	89-91	A	DOHC (1st Design Timing & W/ AT)	92mm	85mm	060-138F
4	138 / 2.3L	89-91	D	DOHC (1st Design Timing & MFI W/AT)	92mm	85mm	060-138A
4	138 / 2.3L	89-94	D	DOHC (2nd Design Timing & MFI w/ AT)	92mm	85mm	060-138B
4	138 / 2.3L	91-94	A	DOHC(2nd Design Timing & W/ MT)	92mm	85mm	060-138D
4	138 / 2.3L	92-94	3	SOHC	92mm	85mm	060-138E
4	146 / 2.4L	96-98	T	DOHC MFI	3.543in.	3.7in.	018-146
4	151 / 2.5L	78-79	V, 1	Non-Crossflow Head	4in.	3in.	069-151
4	151 / 2.5L	80-81	5	RWD	4in.	3in.	069-151A
4	151 / 2.5L	80-81	5	FWD	4in.	3in.	069-151B
4	151 / 2.5L	82-84	F, R, S, 2, 5	Automatic Trans.	4in.	3in.	069-151C
4	151 / 2.5L	82-84	F, R, S, 5	Standard Trans.	4in.	3in.	069-151D
4	151 / 2.5L	85-86	R	Standard Trans.	4in.	3in.	069-151F
4	151 / 2.5L	85-86	R	Automatic Trans.	4in.	3in.	069-151G
4	151 / 2.5L	85-86	U	Automatic Trans.	4in.	3in.	069-151J
4	151 / 2.5L	85-86	U	Standard Trans.	4in.	3in.	069-151K
4	151 / 2.5L	87-87	R	Automatic Trans.	4in.	3in.	069-151P
4	151 / 2.5L	87-87	R	Standard Trans.	4in.	3in.	069-151P
4	151 / 2.5L	87-87	U	Automatic Trans. W/O Balancer Drive Gear	4in.	3in.	069-151L
4	151 / 2.5L	87-87	U	Standard Trans. W/O Balancer Drive Gear	4in.	3in.	069-151M
4	151 / 2.5L	88-88	R	Automatic Trans. W/ Balancer Drive Gear	4in.	3in.	069-151PB
4	151 / 2.5L	88-88	R	Standard Trans. W/O Balancer Drive Gear	4in.	3in.	069-151QB
4	151 / 2.5L	88-89	R	Automatic Trans.	4in.	3in.	069-151T
4	151 / 2.5L	88-89	R	Standard Trans.	4in.	3in.	069-151U
4	151 / 2.5L	88-88	U	Automatic Trans.	4in.	3in.	069-151R
4	151 / 2.5L	88-88	U	Standard Trans.	4in.	3in.	069-151S
4	151 / 2.5L	89-89	U	Automatic Trans.	4in.	3in.	069-151V
4	151 / 2.5L	89-89	U	Standard Trans.	4in.	3in.	069-151W
4	151 / 2.5L	90-90	R	Automatic Trans.	4in.	3in.	069-151X
4	151 / 2.5L	90-90	R	Standard Trans.	4in.	3in.	069-151Y
4	151 / 2.5L	90-90	U	Automatic Trans.	4in.	3in.	069-151Z
4	151 / 2.5L	90-90	U	Standard Trans.	4in.	3in.	069-151ZA
4	151 / 2.5L	91-92	R	Automatic Trans.	4in.	3in.	069-151ZB
4	151 / 2.5L	91-92	R	Standard Trans.	4in.	3in.	069-151ZC
4	151 / 2.5L	91-91	U	Automatic Trans.	4in.	3in.	069-151ZD
4	151 / 2.5L	91-91	U	Standard Trans.	4in.	3in.	069-151ZE
6	173 / 2.8L	80-84	X, 1, 7		89mm	76mm	018-173
6	173 / 2.8L	81-84	Z	Hi-Output Engine	89mm	76mm	018-173A
6	173 / 2.8L	85-86	W	MFI Main Journal Dia. 2.648	89mm	76mm	018-173E
6	173 / 2.8L	85-85	X	W/ 2V Main Journal Dia. 2.495	89mm	76mm	018-173D
6	173 / 2.8L	85-85	X	W/ 2V Main Journal Dia. 2.648	89mm	76mm	018-173F
6	173 / 2.8L	86-86	X	W/ 2V Main Journal Dia. 2.648	89mm	76mm	018-173FA
6	173 / 2.8L	87-89	W	MFI	89mm	76mm	018-173H
6	181 / 3.0L	82-82	E	W/ 2V To 11/30/82	3.8in.	2.66in.	011-181
6	181 / 3.0L	82-85	E	W/ 2V From 12/1/82 (14 Bolt Oil Pan)	3.8in.	2.66in.	011-181D

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OLDSMOBILE <i>Continued</i>							
6	181 / 3.0L	82-85	E	W/ 2V From 12/1/82 (20 Bolt Oil Pan)	3.8in.	2.66in.	011-181E
6	181 / 3.0L	85-85	L	MFI	3.8in.	2.66in.	011-181A
6	181 / 3.0L	86-86	L	MFI	3.8in.	2.66in.	011-181B
6	181 / 3.0L	87-88	L	MFI	3.8in.	2.66in.	011-181C
6	191 / 3.1L	89-89	T	MFI	89mm	84mm	018-191
6	191 / 3.1L	90-90	D	Silhouette Van (TBI) 1st Design Oil Pump	89mm	84mm	018-191A
6	191 / 3.1L	90-95	D	Silhouette APV Van (TBI) 2nd Design Oil Pump	89mm	84mm	018-191C
6	191 / 3.1L	90-90	T	MFI 1st Design Oil Pump 5/8 Inlet	89mm	84mm	018-191B
6	191 / 3.1L	90-94	T	MFI 2nd Design Oil Pump 3/4 Inlet	89mm	84mm	018-191D
6	191 / 3.1L	94-96	M	SFI/MFI	3.5039in.	3.307in.	018-191G
6	191 / 3.1L	97-98	M	SFI/MFI	3.5039in.	3.307in.	018-191H
6	204 / 3.3L	89-90	N	3300 MFI	3.7in.	3.16in.	011-204
6	204 / 3.3L	91-93	N	3300 MFI	3.7in.	3.16in.	011-204A
6	207 / 3.4L	91-93	X	DOHC	92mm	84mm	018-207
6	207 / 3.4L	94-95	X	DOHC	92mm	84mm	018-207A
6	207 / 3.4L	96-97	X	DOHC	92mm	84mm	018-207C
6	207 / 3.4L	97-99	E	OHV	3.622in.	3.307in.	018-207D
6	214 / 3.5L	99-99	H	DOHC 90° Vee LX5 Northstar	3.523in.	3.622in.	060-214
6	214 / 3.5L	00-02	H	DOHC 90° Vee LX5 Northstar	3.523in.	3.622in.	060-214A
6	231 / 3.8L	75-76	C	Odd Fire Engine	3.8in.	3.4in.	011-231
6	231 / 3.8L	77-78	A, 2	Even Fire Engine	3.8in.	3.4in.	011-231A
6	231 / 3.8L	77-77	C	Odd Fire Engine	3.8in.	3.4in.	011-231
6	231 / 3.8L	79-81	A, 2		3.8in.	3.4in.	011-231C
6	231 / 3.8L	82-82	A		3.8in.	3.4in.	011-231F
6	231 / 3.8L	83-83	A		3.8in.	3.4in.	011-231J
6	231 / 3.8L	84-84	3	FWD	3.8in.	3.4in.	011-231I
6	231 / 3.8L	84-84	A	RWD W/ Aluminum Int. Manifold	3.8in.	3.4in.	011-231H
6	231 / 3.8L	84-84	A	RWD W/ Cast Iron Int. Manifold	3.8in.	3.4in.	011-231J
6	231 / 3.8L	85-85	3	FWD W/ 14 Bolt Oil Pan	3.8in.	3.4in.	011-231M
6	231 / 3.8L	85-85	3	FWD W/ 20 Bolt Oil Pan	3.8in.	3.4in.	011-231N
6	231 / 3.8L	85-85	A	RWD	3.8in.	3.4in.	011-231K
6	231 / 3.8L	86-88	3	Roller FWD Exc.H.O.	3.8in.	3.4in.	011-231X
6	231 / 3.8L	86-87	A	RWD	3.8in.	3.4in.	011-231P
6	231 / 3.8L	86-88	B	FWD Exc.H.O.	3.8in.	3.4in.	011-231O
6	231 / 3.8L	88-88	C	3800 MFI	3.8in.	4in.	011-231R
6	231 / 3.8L	89-90	C	3800 MFI	3.8in.	4in.	011-231S
6	231 / 3.8L	91-91	C	3800 MFI	3.8in.	3.4in.	011-231U
6	231 / 3.8L	91-92	L	3800 TPI	3.8in.	4in.	011-231T
6	231 / 3.8L	93-93	L	3800 TPI	3.8in.	4in.	011-231V
6	231 / 3.8L	94-94	L	3800 TPI	3.8in.	4in.	011-231W
6	231 / 3.8L	95-97	1	Supercharged	3.8in.	3.4in.	011-231ZD
6	231 / 3.8L	95-97	K	MFI	3.8in.	3.4in.	011-231Z
6	231 / 3.8L	97-01	K	SFI 2nd Design	3.8in.	3.4in.	011-231ZA
8	244 / 4.0L	95-96	C	32V DOHC 1ST DESIGN	3.425in.	3.307in.	060-244
8	244 / 4.0L	96-98	C	96 2ND DESIGN, 97-98 1ST DESIGN 32V DOHC 1ST DESIGN	3.425in.	3.307in.	060-244A
8	244 / 4.0L	98-99	C	98 2ND DESIGN, 99 ALL 32V DOHC 1ST DESIGN	3.425in.	3.307in.	060-244B
6	250 / 4.1L	71-76		Exc. Integral Head	3.875in.	3.531in.	018-250
6	250 / 4.1L	75-75	D	W/ Integral Head	3.875in.	3.531in.	018-250A
6	250 / 4.1L	76-76	D	W/ Integral Head	3.875in.	3.531in.	018-250B

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OLDSMOBILE <i>Continued</i>							
6	252 / 4.1L	80-82	4		3.965in.	4in.	011-252
6	252 / 4.1L	83-84	4		3.965in.	4in.	011-252A
8	260 / 4.3L	75-76	F		3.5in.	3.385in.	060-260A
8	260 / 4.3L	77-82	F		3.5in.	3.385in.	060-260B
6	260 / 4.3L	82-85	T,V	Diesel	4.057in.	3.585in.	060-260
6	262 / 4.3L	91-92	Z	TBI W/ 1st Design Oil Pump	4in.	3.484in.	019-262A
6	262 / 4.3L	92-93	W	CPI (Exc. Split Cam Brgs.)	4in.	3.484in.	019-262B
6	262 / 4.3L	92-93	W	CPI W/ 2nd Design Oil Pump (Exc. Split Cam Brg.)	4in.	3.484in.	019-262C
6	262 / 4.3L	94-95	W	CPI (Exc. Split Cam Brg.)	4in.	3.484in.	019-262D
6	262 / 4.3L	96-98	W	MFI Bravada	4in.	3in.	019-262J
8	267 / 4.4L	81-82	J		3.5in.	3.484in.	018-267A
8	301 / 4.9L	79-79	Y		4in.	3in.	069-301A
8	305 / 5.0L	77-80	G, H, U		3.736in.	3.484in.	018-305
8	305 / 5.0L	81-81	H		3.736in.	3.484in.	018-305A
8	305 / 5.0L	82-85	H		3.736in.	3.484in.	018-305A
8	305 / 5.0L	86-86	H	W/4V	3.736in.	3.484in.	018-305D
8	305 / 5.0L	87-88	G	W/ 4V	3.736in.	3.484in.	018-305E
8	305 / 5.0L	91-91	E	TBI	3.736in.	3.484in.	018-305G
8	305 / 5.0L	92-92	E	TBI	3.736in.	3.484in.	018-305H
8	307 / 5.0L	80-84	Y, 9		3.8in.	3.385in.	060-307
8	307 / 5.0L	85-88	Y, 9		3.8in.	3.385in.	060-307A
8	307 / 5.0L	89-90	Y		3.8in.	3.385in.	060-307A
8	324 / 5.3L	54-55	O	MAINS = MS205P OR IND.	3.875in.	3.437in.	060-324
8	324 / 5.3L	56-56	O	MAINS = MS205P OR IND.	3.875in.	3.437in.	060-324A
8	330 / 5.4L	64-67	O	LO-COMP	3.938in.	3.385in.	060-330
8	330 / 5.4L	64-67	O	HI-COMP	3.938in.	3.385in.	060-330A
8	350 / 5.7L	68-70		Muscle Car Application	4.057in.	3.385in.	060-350E
8	350 / 5.7L	68-72	R	Olds. Engine Automatic Trans.(Exc. Toronado)	4.057in.	3.385in.	060-350
8	350 / 5.7L	68-72	R	Olds. Engine Standard Trans.(Exc. Toronado)	4.057in.	3.385in.	060-350A
8	350 / 5.7L	73-75	R	Olds. Engine Automatic Trans.(Exc. Toronado)	4.057in.	3.385in.	060-350B
8	350 / 5.7L	73-75	R	Olds. Engine Standard Trans.(Exc. Toronado)	4.057in.	3.385in.	060-350C
8	350 / 5.7L	75-75	J	Buick Engine	3.8in.	3.85in.	011-350
8	350 / 5.7L	76-76	H, J	Buick Engine	3.8in.	3.85in.	011-350A
8	350 / 5.7L	77-79	L	Chevrolet Engine	4in.	3.484in.	018-350A
8	350 / 5.7L	77-80	R	Oldsmobile Engine	4.057in.	3.385in.	060-350D
8	350 / 5.7L	78-81	N	Diesel W/ External EGR	4.057in.	3.385in.	060-350DA
8	350 / 5.7L	81-85	N	Diesel W/ Internal EGR	4.057in.	3.385in.	060-350DB
8	350 / 5.7L	91-92	7	TBI Chevrolet Engine	4in.	3.484in.	018-350E
8	394 / 6.5L	59-60			4.125in.	3.688in.	060-394B
8	394 / 6.5L	61-62			4.125in.	3.688in.	060-394A
8	394 / 6.5L	63-64			4.125in.	3.688in.	060-394
8	400 / 6.6L	68-69		Muscle Car Application	4in.	3.98in.	060-400
8	400 / 6.6L	75-76	Z	Pontiac Engine (2-3/4 Flywheel Center Ring)	4.12in.	3.75in.	069-400A
8	400 / 6.6L	75-76	Z	Pontiac Engine (2-1/2 Flywheel Center Ring)	4.12in.	3.75in.	069-400B
8	403 / 6.6L	77-79		Oldsmobile Engine	4.351in.	3.385in.	060-403
8	425 / 7.0L	65-67	O	PREMIUM FUEL	4.126in.	3.975in.	060-425
8	425 / 7.0L	65-67	O	STD FUEL	4.126in.	3.975in.	060-425A
8	455 / 7.4L	70-70		Muscle Car Application	4.125in.	4.25in.	060-455H
8	455 / 7.4L	68-72		Automatic Trans.	4.125in.	4.25in.	060-455
8	455 / 7.4L	68-72		Standard Trans.	4.125in.	4.25in.	060-455A

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OLDSMOBILE <i>Continued</i>							
8	455 / 7.4L	68-71		Automatic Trans. (High Performance Only)	4.125in.	4.25in.	060-455F
8	455 / 7.4L	68-72		Standard Trans. (High Performance Only)	4.125in.	4.25in.	060-455G
8	455 / 7.4L	73-74		Automatic Trans.	4.125in.	4.21in.	060-455B
8	455 / 7.4L	73-74		Standard Trans.	4.125in.	4.21in.	060-455C
8	455 / 7.4L	75-76	T	Automatic Trans.	4.125in.	4.25in.	060-455D
8	455 / 7.4L	75-76	T	Standard Trans.	4.125in.	4.25in.	060-455E
PONTIAC							
3	61 / 1.0L	93-93	6	Exc. Turbo	74mm	77mm	077-061B
3	61 / 1.0L	87-88	5	Exc. Turbo	74mm	0mm	077-061
3	61 / 1.0L	89-89	6	Exc. Turbo	74mm	77mm	077-061A
3	61 / 993cc	94-95	6	6V SOHC G10	74mm	77mm	077-061C
3	61 / 993cc	96-98	6	6V SOHC G10	74mm	77mm	077-061D
4	91 / 1.5L	87-89	7	Sunburst (8 Bolt Crank)	77mm	79mm	045-091A
4	91 / 1.5L	87-89	9	Sunburst Turbo (8 Bolt Crank)	77mm	79mm	045-091B
4	98 / 1.6L	88-92	6	2ND TIMING U/B0203	79mm	81.5mm	069-098
4	98 / 1.6L	81-83	C, 9	T1000 W/ .825 Pilot Hole In Crankshaft	82mm	76mm	018-098D
4	98 / 1.6L	84-87	C	T1000 (Shallow Oil Groove)	82mm	76mm	018-098E
4	110 / 1794cc	03-05	8	DOHC 16V Vibe	79mm	91.5mm	078-110B
4	110 / 1796cc	03-05	L	DOHC 16V VVTL-1 Vibe GT	82mm	81.5mm	078-110C
4	112 / 1.8L	82-86	0	OHC	84.8mm	80mm	069-112
4	112 / 1.8L	82-82	G	OHV	89mm	74mm	018-112
4	112 / 1.8L	84-86	J	OHC Turbo	84.8mm	80mm	069-112A
4	121 / 2.0L	83-83	B, P	OHV	89mm	80mm	018-121
4	121 / 2.0L	84-84	B, P	OHV W/ 2 piece Rear Seal	89mm	80mm	018-121A
4	121 / 2.0L	84-84	B, P	OHV W/O Direct Magnetic Ignition	89mm	80mm	018-121B
4	121 / 2.0L	85-86	P	OHV	89mm	80mm	018-121C
4	121 / 2.0L	87-89	1	OHV	89mm	80mm	018-121D
4	122 / 2.0L	87-88	K		3.386in.	3.386in.	069-122
4	122 / 2.0L	87-88	M	Turbo	3.386in.	3.386in.	069-122B
4	122 / 2.0L	89-91	K		3.386in.	3.386in.	069-122A
4	122 / 2.0L	89-90	M	Turbo	3.386in.	3.386in.	069-122C
4	122 / 2.0L	92-94	H	OHC, MFI	86mm	86mm	069-122D
4	134 / 2.2L	02-05	F	DOHC L61 ECOTEC Grand Am, Sunfire	86mm	94.6mm	018-134D
4	134 / 2.2L	90-92	G	OHV 90-92 1st. Design	89mm	88mm	018-134
4	134 / 2.2L	95-97	4	SOHC MFI	89mm	88mm	018-134B
4	134 / 2.2L	98-02	4	OHV MFI	89mm	88mm	018-134C
4	138 / 2.3L	88-88	D	DOHC (1st Design Timing & MFI W/AT)	92mm	85mm	060-138
4	138 / 2.3L	89-91	A	DOHC (1st Design Timing & W/ MT)	92mm	85mm	060-138C
4	138 / 2.3L	89-91	D	DOHC (1st Design Timing & MFI W/AT)	92mm	85mm	060-138A
4	138 / 2.3L	89-94	D	DOHC (2nd design timing & MFI w/ AT)	92mm	85mm	060-138B
4	138 / 2.3L	91-94	A	DOHC(2nd Design Timing & W/ MT)	92mm	85mm	060-138D
4	138 / 2.3L	92-94	3	SOHC	92mm	85mm	060-138E
4	146 / 2.4L	96-98	T	DOHC MFI	3.543in.	3.7in.	018-146
4	151 / 2.5L	79-79	9	with Crossflow Head	4in.	3in.	069-151ZJ
4	151 / 2.5L	80-81	5	RWD	4in.	3in.	069-151A
4	151 / 2.5L	80-81	5	FWD	4in.	3in.	069-151B
4	151 / 2.5L	82-84	F, R, S, 2, 5	Automatic Trans.	4in.	3in.	069-151C
4	151 / 2.5L	82-84	F, R, S, 5	Standard Trans.	4in.	3in.	069-151D

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PONTIAC <i>Continued</i>							
4	151 / 2.5L	85-86	R, 2	Automatic Trans.	4in.	3in.	069-151G
4	151 / 2.5L	85-86	R,2	Standard Trans.	4in.	3in.	069-151H
4	151 / 2.5L	85-86	U	Automatic Trans.	4in.	3in.	069-151J
4	151 / 2.5L	85-86	U	Standard Trans.	4in.	3in.	069-151K
4	151 / 2.5L	87-87	R	Automatic Trans.	4in.	3in.	069-151P
4	151 / 2.5L	87-87	R	Standard Trans.	4in.	3in.	069-151Q
4	151 / 2.5L	87-87	U	Automatic Trans. W/O Balancer Drive Gear	4in.	3in.	069-151L
4	151 / 2.5L	87-87	U	Standard Trans. W/O Balancer Drive Gear	4in.	3in.	069-151M
4	151 / 2.5L	88-88	R	Automatic Trans. W/ Balancer Drive Gear	4in.	3in.	069-151PB
4	151 / 2.5L	88-88	R	Standard Trans. W/O Balancer Drive Gear	4in.	3in.	069-151QB
4	151 / 2.5L	88-89	R	Automatic Trans.	4in.	3in.	069-151T
4	151 / 2.5L	88-89	R	Standard Trans.	4in.	3in.	069-151U
4	151 / 2.5L	88-88	U	Automatic Trans.	4in.	3in.	069-151R
4	151 / 2.5L	88-88	U	Standard Trans.	4in.	3in.	069-151S
4	151 / 2.5L	89-89	U	Automatic Trans.	4in.	3in.	069-151V
4	151 / 2.5L	89-89	U	Standard Trans.	4in.	3in.	069-151W
4	151 / 2.5L	90-90	R	Automatic Trans.	4in.	3in.	069-151X
4	151 / 2.5L	90-90	R	Standard Trans.	4in.	3in.	069-151Y
4	151 / 2.5L	90-90	U	Automatic Trans.	4in.	3in.	069-151Z
4	151 / 2.5L	90-90	U	Standard Trans.	4in.	3in.	069-151ZA
4	151 / 2.5L	91-92	R	Automatic Trans.	4in.	3in.	069-151ZB
4	151 / 2.5L	91-92	R	Standard Trans.	4in.	3in.	069-151ZC
4	151 / 2.5L	91-91	U	Automatic Trans.	4in.	3in.	069-151ZD
4	151 / 2.5L	91-91	U	Standard Trans.	4in.	3in.	069-151ZE
6	173 / 2.8L	80-84	X, 1, 7		89mm	76mm	018-173
6	173 / 2.8L	81-84	Z	Hi-Output Engine	89mm	76mm	018-173A
6	173 / 2.8L	85-89	9	Fiero	89mm	76mm	018-173I
6	173 / 2.8L	85-85	S, W	MFI & MFI Hi-Output Main Journal Dia. 2.495	89mm	76mm	018-173C
6	173 / 2.8L	85-86	S, W	MFI Main Journal Dia. 2.648	89mm	76mm	018-173E
6	173 / 2.8L	85-85	X	W/ 2V Main Journal Dia. 2.495	89mm	76mm	018-173D
6	173 / 2.8L	85-85	X	W/ 2V Main Journal Dia. 2.648	89mm	76mm	018-173F
6	173 / 2.8L	86-86	X	W/ 2V Main Journal Dia. 2.648	89mm	76mm	018-173FA
6	173 / 2.8L	87-89	S	MFI Firebird Only	89mm	76mm	018-173G
6	173 / 2.8L	87-89	W	MFI W/ Aluminum Heads	89mm	76mm	018-173H
6	181 / 3.0L	85-85	L	MFI	3.8in.	2.66in.	011-181A
6	181 / 3.0L	86-86	L	MFI	3.8in.	2.66in.	011-181B
6	181 / 3.0L	87-87	L	MFI	3.8in.	2.66in.	011-181C
6	191 / 3.1L	88-89	T, V	MFI	89mm	84mm	018-191
6	191 / 3.1L	90-90	D	TBI 1st Design Oil Pump 5/8 Inlet	89mm	84mm	018-191A
6	191 / 3.1L	90-95	D	TBI 2nd Design Oil Pump 3/4 Inlet	89mm	84mm	018-191C
6	191 / 3.1L	90-94	T	MFI 2nd Design Oil Pump 3/4 Inlet	89mm	84mm	018-191D
6	191 / 3.1L	90-92	T	MFI Firebird Only 1st Design Oil Pump	89mm	84mm	018-191E
6	191 / 3.1L	90-90	T, V	MFI 1st Design Oil Pump 5/8 Inlet	89mm	84mm	018-191B
6	191 / 3.1L	91-94	T	MFI Firebird Only 2nd Design Oil Pump	89mm	84mm	018-191F
6	191 / 3.1L	94-96	M	SFI/MFI	3.5039in.	3.307in.	018-191G
6	191 / 3.1L	97-98	M	SFI/MFI	3.5039in.	3.307in.	018-191H
6	204 / 3.3L	92-93	N	3300 MFI	3.7in.	3.16in.	011-204A

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PONTIAC <i>Continued</i>							
6	207 / 3.4L	91-93	X	DOHC	92mm	84mm	018-207
6	207 / 3.4L	93-95	S	OHV MFI Cast Iron Head	92mm	84mm	018-207B
6	207 / 3.4L	94-95	X	DOHC	92mm	84mm	018-207A
6	207 / 3.4L	96-99	E	OHV	3.622in.	3.307in.	018-207D
6	207 / 3.4L	96-96	X	DOHC	92mm	84mm	018-207C
6	229 / 3.8L	80-83	K, 9		3.736in.	3.484in.	018-229
6	230 / 3.8L	66-67	L	OHC	3.875in.	3.25in.	069-230
6	231 / 3.8L	98-99	1	Supercharged	3.8in.	3.4in.	011-231ZG
6	231 / 3.8L	00-03	1	Supercharged	3.8in.	3.4in.	011-231ZH
6	231 / 3.8L	00-03	K	FWD	3.8in.	3.4in.	011-231ZF
6	231 / 3.8L	04-05	1,4	Supercharged Bonneville, Park Avenue	3.8in.	3.4in.	011-231ZI
6	231 / 3.8L	04-05	1,4	Supercharged Grand Prix, Impala, Monte Carlo, Regal	3.8in.	3.4in.	011-231ZJ
6	231 / 3.8L	04-05	K	FWD Bonneville, LeSabre, Park Avenue	3.8in.	3.4in.	011-231ZK
6	231 / 3.8L	04-05	K	FWD Grand Prix, Impala, LaCrosse, Lucerne, Monte Carlo, Regal	3.8in.	3.4in.	011-231ZL
6	231 / 3.8L	75-76	C	Odd Fire Engine	3.8in.	3.4in.	011-231
6	231 / 3.8L	77-78	A, 2	Even Fire Engine	3.8in.	3.4in.	011-231A
6	231 / 3.8L	77-77	C	Odd Fire Engine	3.8in.	3.4in.	011-231
6	231 / 3.8L	79-81	A, 2		3.8in.	3.4in.	011-231C
6	231 / 3.8L	82-82	A		3.8in.	3.4in.	011-231F
6	231 / 3.8L	83-83	A		3.8in.	3.4in.	011-231J
6	231 / 3.8L	84-84	A	RWD W/ Aluminum Int. Manifold	3.8in.	3.4in.	011-231H
6	231 / 3.8L	84-84	A	RWD W/ Cast Iron Int. Manifold	3.8in.	3.4in.	011-231J
6	231 / 3.8L	85-85	A	RWD	3.8in.	3.4in.	011-231K
6	231 / 3.8L	86-88	3	Roller FWD Exc.H.O.	3.8in.	3.4in.	011-231X
6	231 / 3.8L	86-87	A	RWD	3.8in.	3.4in.	011-231P
6	231 / 3.8L	86-88	B	FWD Exc.H.O.	3.8in.	3.4in.	011-231O
6	231 / 3.8L	88-88	C	3800 MFI	3.8in.	4in.	011-231R
6	231 / 3.8L	89-90	C	3800 MFI	3.8in.	4in.	011-231S
6	231 / 3.8L	91-91	C	3800 MFI	3.8in.	3.4in.	011-231U
6	231 / 3.8L	92-92	L	3800 TPI	3.8in.	4in.	011-231T
6	231 / 3.8L	93-93	L	3800 TPI	3.8in.	4in.	011-231V
6	231 / 3.8L	94-94	L	3800 TPI	3.8in.	4in.	011-231W
6	231 / 3.8L	95-97	1	Supercharged	3.8in.	3.4in.	011-231ZD
6	231 / 3.8L	95-97	K	MFI	3.8in.	3.4in.	011-231Z
6	231 / 3.8L	97-01	K	SFI 2nd Design	3.8in.	3.4in.	011-231ZA
6	250 / 4.1L	68-69		SOHC 12V Tempest, Firebird	3.875in.	3.533in.	069-250
6	250 / 4.1L	71-76		Exc. Integral Head	3.875in.	3.531in.	018-250
6	250 / 4.1L	75-75	D	W/ Integral Head	3.875in.	3.531in.	018-250A
6	250 / 4.1L	76-76	D	W/ Integral Head	3.875in.	3.531in.	018-250B
6	252 / 4.1L	82-82	4		3.965in.	4in.	011-252
6	252 / 4.1L	83-83	4		3.965in.	4in.	011-252A
8	260 / 4.3L	75-76	F		3.5in.	3.385in.	060-260A
6	260 / 4.3L	82-85	T,V	Diesel	4.057in.	3.585in.	060-260
6	262 / 4.3L	85-85	Z	TBI	4in.	3.484in.	018-262
6	262 / 4.3L	86-86	Z	TBI	4in.	3.484in.	018-262A
6	262 / 4.3L	87-88	Z	TBI	4in.	3.484in.	018-262B
8	265 / 4.3L	80-80	S		3.75in.	3in.	069-265
8	265 / 4.3L	81-81	S		3.75in.	3in.	069-265A
8	267 / 4.4L	81-82	J		3.5in.	3.484in.	018-267A
8	301 / 4.9L	77-78	W, Y		4in.	3in.	069-301

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PONTIAC <i>Continued</i>							
8	301 / 4.9L	79-81	W, Y		4in.	3in.	069-301A
8	301 / 4.9L	80-81	T	Turbo	4in.	0in.	069-301B
8	305 / 5.0L	77-80	U		3.736in.	3.484in.	018-305
8	305 / 5.0L	81-81	H		3.736in.	3.484in.	018-305A
8	305 / 5.0L	82-83	7	TBI	3.736in.	3.484in.	018-305BA
8	305 / 5.0L	82-85	H, S		3.736in.	3.484in.	018-305A
8	305 / 5.0L	85-85	F	TPI	3.736in.	3.484in.	018-305C
8	305 / 5.0L	86-86	F	TPI	3.736in.	3.484in.	018-305CA
8	305 / 5.0L	86-86	G, H	W/ 4V	3.736in.	3.484in.	018-305D
8	305 / 5.0L	87-91	F	TPI W/ Manual Trans.	3.736in.	3.484in.	018-305F
8	305 / 5.0L	87-88	H	W/ 4V	3.736in.	3.484in.	018-305E
8	305 / 5.0L	88-91	E	TBI W/ Auto Trans.	3.736in.	3.484in.	018-305G
8	305 / 5.0L	92-93	E	TBI W/ Auto Trans.	3.736in.	3.484in.	018-305H
8	305 / 5.0L	92-93	F	TPI W/ Manual Trans.	3.736in.	3.484in.	018-305I
8	305 / 5.0L	93-93	E	TBI W/ Auto Trans. W/ 2nd Design Oil Pump	3.736in.	3.484in.	018-305J
8	305 / 5.0L	93-93	F	TPI W/ Manual Trans. W/ 2nd Design Oil Pump	3.736in.	3.484in.	018-305K
8	307 / 5.0L	71-72		Chevrolet Engine	3.875in.	3.25in.	018-307
8	307 / 5.0L	81-81	Y		3.8in.	3.385in.	060-307
8	307 / 5.0L	86-88	Y		3.8in.	3.385in.	060-307A
8	307 / 5.0L	89-90	Y		3.8in.	3.385in.	060-307A
8	326 / 5.4L	64-67		Full groove mains	3.719in.	3.75in.	069-326
8	326 / 5.4L	64-67		Partial groove mains	3.719in.	3.75in.	069-326A
8	350 / 5.7L	68-71		Pontiac Engine	3.875in.	3.75in.	069-350
8	350 / 5.7L	72-75	M, P	Pontiac Engine (2-1/2 Flywheel Centering Ring)	3.875in.	3.75in.	069-350A
8	350 / 5.7L	72-75	M, P	Pontiac Engine (2-3/4 Flywheel Centering Ring)	3.875in.	3.75in.	069-350B
8	350 / 5.7L	75-75	H, J	Buick Engine	3.8in.	3.85in.	011-350
8	350 / 5.7L	76-78	H, J	Buick Engine	3.8in.	3.85in.	011-350A
8	350 / 5.7L	76-77	M, P	Pontiac Engine (2-1/2 Flywheel Centering Ring)	3.875in.	3.75in.	069-350C
8	350 / 5.7L	76-77	M, P	Pontiac Engine (2-3/4 Flywheel Centering Ring)	3.875in.	3.75in.	069-350D
8	350 / 5.7L	77-79	L	Chevrolet Engine	4in.	3.484in.	018-350A
8	350 / 5.7L	77-80	R	Oldsmobile Engine	4.057in.	3.385in.	060-350D
8	350 / 5.7L	80-81	N	Diesel W/ External EGR	4.057in.	3.385in.	060-350DA
8	350 / 5.7L	81-85	N	Diesel W/ Internal EGR	4.057in.	3.385in.	060-350DB
8	350 / 5.7L	85-85	L, 6	W/ 4V	4in.	3.484in.	018-350B
8	350 / 5.7L	87-93	8	TPI Firebird (Inc. Dbl Roll. Timing & 1st Design O/P)	4in.	3.484in.	018-350D
8	350 / 5.7L	93-93	8	TPI Firebird (Inc. Dbl Roll. Timing & 2nd Design O/P)	4in.	3.484in.	018-350J
8	350 / 5.7L	93-94	P	Firebird W/ 1st Design Oil Pump	4in.	3.484in.	018-350H
8	350 / 5.7L	94-97	P	Firebird W/2nd Design Oil Pump	4in.	3.484in.	018-350I
8	389 / 6.4L	66-66		Muscle Car Application	4.063in.	3.75in.	069-389D
8	389 / 6.4L	59-60			4.063in.	3.75in.	069-389
8	389 / 6.4L	61-62			4.063in.	3.75in.	069-389A
8	389 / 6.4L	63-64			4.063in.	3.75in.	069-389B
8	389 / 6.4L	65-66			4.063in.	3.75in.	069-389C
8	400 / 6.6L	67-70		Muscle Car Application	4.12in.	3.75in.	069-400C
8	400 / 6.6L	68-71			4.12in.	3.75in.	069-400-SP
8	400 / 6.6L	68-70		Muscle Car Application	4.12in.	3.75in.	069-400D
8	400 / 6.6L	68-71		Pontiac Engine W/ 4V	4.12in.	3.75in.	069-400
8	400 / 6.6L	72-75	Z	Pontiac Engine (2 3/4 Flywheel Center Ring)	4.12in.	3.75in.	069-400A

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PONTIAC <i>Continued</i>							
8	400 / 6.6L	75-79	Z	Pontiac Engine (2-1/2 Flywheel Center Ring)	4.12in.	3.75in.	069-400B
8	403 / 6.6L	77-79		Oldsmobile Engine	4.351in.	3.385in.	060-403
8	428 / 7.0L	67-67	P	W/ A.T. Trans & High Torque	4.12in.	4in.	069-428C
8	428 / 7.0L	67-67		GTO & H.O.	4.12in.	4in.	069-428
8	428 / 7.0L	67-69		H.O. & Ram-Air Hyd.	4.12in.	4in.	069-428A
8	428 / 7.0L	69-69	P	W/ A.T. Trans & High Torque	4.12in.	4in.	069-428B
8	455 / 7.4L	73-74		Muscle Car Application	4.151in.	4.21in.	069-455B
8	455 / 7.4L	70-71		W/ 4V	4.125in.	4.21in.	069-455
8	455 / 7.4L	72-76	W	W/ 4V	4.125in.	4.21in.	069-455A
RENAULT							
4	85 / 1397cc	83-87	C3J	Alliance & Encore	76mm	77mm	071-085
4	105 / 1721cc	85-87	F3N	Alliance & Encore	81mm	83.5mm	071-105
SATURN							
4	116 / 1.9L	99-99	7	16V DOHC SATURN	82mm	90mm	074-116I
4	116 / 1.9L	99-99	8	8V SOHC SATURN	82mm	90mm	074-116G
4	116 / 1.9L	00-02	7	16V DOHC SATURN	82mm	90mm	074-116J
4	116 / 1.9L	00-02	8	8V SOHC SATURN	82mm	90mm	074-116H
4	116 / 1.9L	98-98	7	DOHC 16V MFI	82mm	90mm	074-116F
4	116 / 1901cc	91-92	7	DOHC 16V MFI	82mm	90mm	074-116
4	116 / 1901cc	91-92	9	SOHC 8V TBI & MFI	82mm	90mm	074-116A
4	116 / 1901cc	93-97	7	DOHC 16V MFI	82mm	90mm	074-116C
4	116 / 1901cc	93-95	9	SOHC 8V TBI & MFI	82mm	90mm	074-116B
4	116 / 1901cc	95-96	8	SOHC 8V TBI & MFI	82mm	90mm	074-116E
4	116 / 1901cc	96-97	9	SOHC 8V	82mm	90mm	074-116D
4	134 / 2.2L	02-05	F	DOHC L61 ECOTEC Vue, Ion	86mm	94.6mm	018-134D
6	181 / 3.0L	00-05	R	DOHC 54° Vee L81 X30XE	86mm	85mm	014-181A
6	222 / 3500cc	04-05	J35A1	24V SOHC J35A1 VTEC Vue	89mm	93mm	040-222
SUBARU							
3	72 / 1189cc	87-94	7	SOHC 9V Carb Justy	78mm	83mm	076-072
4	98 / 1595cc	80-81	EA71	OHV 8V Brat, 1600	92mm	60mm	076-098
4	98 / 1595cc	82-88	EA71	OHV 8V Brat, 1600	92mm	60mm	076-098A
4	109 / 1781cc	85-94	EA82	SOHC 8V FI Loyale, 1800	92mm	67mm	076-109B
4	109 / 1781cc	85-90	EA82T	SOHC 8V FI TURBO Loyale, XT Coupe	92mm	67mm	076-109C
4	109 / 1781cc	82-89	EA81	OHV 8V Brat, 1800, 1800 Hatchback	92mm	67mm	076-109
4	109 / 1781cc	83-84	EA81T	OHV 8V Auto Trans. Turbo Brat, 1800	92mm	67mm	076-109A
4	111 / 1820cc	93-96	EJ18E	OHC 8V MFI Impreza	88mm	75mm	076-111
4	135 / 2212cc	97-01	EJ22E	16V SOHC EJ22E	96.9mm	75mm	076-135A
4	135 / 2212cc	90-96	EJ22E	OHV 8V MFI Impreza, Legacy	96.9mm	75mm	076-135
4	150 / 2457cc	96-99	EJ25	16V DOHC EJ25 96-98 Legacy, 96-98 Impreza, Forester, Outback	99.5mm	79mm	076-150
4	150 / 2457cc	99-05	EJ25	16V DOHC EJ25 Impreza, Forester, (Phase II)	99.5mm	79mm	076-150A
4	150 / 2457cc	99-05	EJ25	16V DOHC EJ25 Legacy, Outback (Phase II)	99.5mm	79mm	076-150B
SUZUKI							
3	61 / 993cc	93-93	6	SOHC 6V TBI	74mm	77mm	077-061B
3	61 / 993cc	94-95	6	6V SOHC G10	74mm	77mm	077-061C
3	61 / 993cc	96-98	6	6V SOHC G10	74mm	77mm	077-061D
3	61 / 993cc	99-00	6	6V SOHC G10	74mm	77mm	077-061E
3	61 / 993cc	99-00	6	6V SOHC G10	74mm	77mm	077-061E

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SUZUKI <i>Continued</i>							
3	61 / 993cc	99-00	6	6V SOHC G10	74mm	77mm	077-061E
3	61 / 993cc	91-92	G10	SOHC 6V TBI	74mm	77mm	077-061A
4	79 / 1298cc	89-94	G13K	SOHC Swift	74mm	75.5mm	077-079A
4	79 / 1298cc	95-97	G13K	SOHC Swift	74mm	75.5mm	077-079B
4	79 / 1298cc	98-01	G13S	SOHC Swift	74mm	75.5mm	077-079C
4	80 / 1324cc	86-94	G13BA, G13A	SOHC TBI 8V Samurai, Sidekick	74mm	77mm	077-080
4	80 / 1324cc	95-95	G13BA, G13A	SOHC TBI 8V Samurai, Sidekick	74mm	77mm	077-080A
4	97 / 1590cc	99-02	G16S	16V SOHC G16S ESTEEM	75mm	90mm	077-097D
4	97 / 1590cc	99-02	G16S	16V SOHC G16S VITARA	75mm	90mm	077-097E
4	97 / 1590cc	89-90	G16KC	SOHC 8V TBI Sidekick	75mm	90mm	077-097
4	97 / 1590cc	91-95	G16KC	SOHC 8V TBI Sidekick	75mm	90mm	077-097A
4	97 / 1590cc	91-98	G16KV	SOHC 16V TBI Sidekick, X-90	75mm	90mm	077-097B
4	97 / 1590cc	95-99	G16S	SOHC 16V Esteem	75mm	90mm	077-097C
4	97 / 1590cc	96-98	G16KV	SOHC 16V TBI Sidekick	75mm	90mm	077-097C
4	112 / 1840cc	96-02	G18	DOHC 16V Esteem, Sidekick	84mm	83mm	077-112
4	121 / 1995cc	99-03	J20A	16V DOHC J20A Vitara	84mm	90mm	077-121
6	152 / 2494cc	99-05	H25A	24V DOHC H25A Grand Vitara, Verona w/o oil drive	84mm	75mm	077-152
TOYOTA							
4	79 / 1290cc	81-82	4KC		75mm	73mm	078-079
4	79 / 1290cc	82-82	4KC		75mm	73mm	078-079A
4	89 / 1452cc	80-82	1A, 1AC, 3A, 3AC	SOHC 8V Tercel	77.5mm	77mm	078-089
4	89 / 1452cc	82-82	3A, 3AC	SOHC 8V Tercel	77.5mm	77mm	078-089A
4	89 / 1452cc	82-83	3A, 3AC	SOHC 8V Tercel	77.5mm	77mm	078-089B
4	89 / 1452cc	83-88	3A, 3AC	SOHC 8V Tercel	77.5mm	77mm	078-089C
4	90 / 1456cc	87-94	3E	SOHC 12V MFI Tercel	73mm	87mm	078-090
4	90 / 1456cc	87-94	3EE	SOHC 12V MFI Tercel	73mm	87mm	078-090A
4	91 / 1497cc	96-99	5EFE	16V DOHC 5EFE Paseo, Tercel	74mm	87mm	078-091A
4	91 / 1497cc	00-05	1NZFE	16V DOHC 1NZFE ECHO	75mm	84.7mm	078-091B
4	91 / 1497cc	00-05	1NZFXE	16V DOHC 1NZFXE PRIUS	75mm	84.7mm	078-091C
4	91 / 1497cc	95-98	5EFE	DOHC 16V MFI Tercel	74mm	87mm	078-091
4	97 / 1587cc	71-73	2TC	8V OHV 2TC Corolla	85mm	70mm	078-097Q
4	97 / 1587cc	74-76	2TC	8V OHV 2TC Corolla	85mm	70mm	076-097R
4	97 / 1587cc	83-83	4AC	SOHC 8V (Wide Notch Brg.)	81mm	77mm	078-097C
4	97 / 1587cc	83-85	4AC	SOHC 8V (Narrow Notch Brg.)	81mm	77mm	078-097D
4	97 / 1587cc	84-85	4ALC	SOHC 8V	81mm	77mm	078-097
4	97 / 1587cc	85-87	4AC	SOHC 8V	81mm	77mm	078-097E
4	97 / 1587cc	85-88	4AGEC, 4AGELC	DOHC 16V MFI	81mm	77mm	078-097L
4	97 / 1587cc	86-88	4ALC	SOHC 8V	81mm	77mm	078-097A
4	97 / 1587cc	88-92	4AF, 4AFE	DOHC 16V	81mm	77mm	078-097F
4	97 / 1587cc	88-92	4AFE	DOHC 16V MFI 8 Bolt Flywheel (Exc. Corolla)	81mm	77mm	078-097G
4	97 / 1587cc	88-88	4AGE, 4AGELC	DOHC 16V MFI (2nd Design Timing)	81mm	77mm	078-097M
4	97 / 1587cc	89-91	4AGE	DOHC 16V MFI	81mm	77mm	078-097N
4	97 / 1587cc	93-93	4AFE	DOHC 16V MFI 6 Bolt Flywheel (Exc. Corolla)	81mm	77mm	078-097H
4	97 / 1587cc	93-93	4AFE	DOHC 16V MFI 8 Bolt Flywheel (Exc. Corolla)	81mm	77mm	078-097I
4	97 / 1587cc	93-95	4AFE	DOHC 16V MFI Corolla	81mm	77mm	078-097J
4	97 / 1587cc	96-97	4AFE	DOHC 16V MFI Corolla	81mm	77mm	078-097K
4	107 / 1762cc	96-97	7AFE	DOHC 16V MFI Celica (2nd Design Oil Pump)	81mm	85.5mm	078-107C
4	107 / 1762cc	93-94	7AFE	DOHC 16V MFI Corolla, Celica	81mm	85.5mm	078-107

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TOYOTA <i>Continued</i>							
4	107 / 1762cc	95-97	7AFE	DOHC 16V MFI Corolla, Celica (2nd Design Oil Pump)	81mm	85.5mm	078-107A
4	107 / 1762cc	95-95	7AFE	DOHC 16V MFI Celica (1st Design Oil Pump)	81mm	85.5mm	078-107B
4	108 / 1770cc	80-80	3TC	OHV Corolla	85mm	78mm	078-108
4	108 / 1770cc	81-82	3TC	OHV Corolla	85mm	78mm	078-108A
4	110 / 1794cc	00-02	1ZZFE	DOHC 16V Celica, Corolla, MR2	79mm	91.5mm	078-110A
4	110 / 1794cc	03-05	1ZZFE	DOHC 16V Celica GT, Corolla	79mm	91.5mm	078-110B
4	110 / 1794cc	98-99	1ZZFE	DOHC 16V Celica, Corolla, MR2	79mm	91.5mm	078-110
4	110 / 1796cc	03-05	2ZZGE	DOHC 16V VVT-1 Celica GTS, Matrix XRS HO	82mm	81.5mm	078-110C
4	112 / 1839cc	84-85	1CLC	SOHC Diesel	83mm	85mm	078-112
4	112 / 1839cc	84-85	1CTLC	SOHC Turbo Diesel	83mm	85mm	078-112A
4	121 / 1995cc	83-86	2SELC	SOHC 8V MFI Camery, Celica	84mm	90mm	078-121
4	122 / 1998cc	84-85	3YEC	OHV 8V MFI Wagon	86mm	86mm	078-122E
4	122 / 1998cc	86-89	3SGELC	DOHC 16V MFI	86mm	86mm	078-122B
4	122 / 1998cc	87-88	3SFE	DOHC 16V MFI (6 Bolt Flywheel Flange) Camery,Celica	86mm	86mm	078-122
4	122 / 1998cc	88-91	3SFE	DOHC 16V MFI (8 Bolt Flywheel Flange) Camery,Celica	86mm	86mm	078-122A
4	122 / 1998cc	88-89	3SGTE	DOHC 16V MFI Turbo Celica	86mm	86mm	078-122C
4	122 / 1998cc	90-95	3SGTE	DOHC 16V MFI Turbo Celica, MR2	86mm	86mm	078-122D
4	132 / 2164cc	96-96	5SFE	16V DOHC 5SFE CELICA	87mm	91mm	078-132F
4	132 / 2164cc	97-99	5SFE	16V DOHC 5SFE CELICA	87mm	91mm	078-132G
4	132 / 2164cc	90-91	5SFE	DOHC 16V MFI Celica, MR2	87mm	91mm	078-132
4	132 / 2164cc	92-95	5SFE	DOHC 16V MFI Celica, MR2	87mm	91mm	078-132A
4	132 / 2164cc	92-96	5SFE	DOHC 16V MFI Camry	87mm	91mm	078-132B
4	132 / 2164cc	97-97	5SFE	DOHC 16V MFI Camry	87mm	91mm	078-132C
4	132 / 2164cc	98-01	5SFE	DOHC 16V MFI Camry	87mm	91mm	078-132D
4	132 / 2189cc	75-80	20R	8V SOHC 20R Celica	88.5mm	89mm	078-132E
4	137 / 2237cc	86-90	4YEC	OHV 8V MFI	91mm	86mm	078-137
4	144 / 2362cc	02-05	2AZFE	DOHC 16V VVT-I Camry	89mm	86mm	078-144G
4	144 / 2367cc	81-82	22R, 22REC,	SOHC 8V & MFI To 3/82	92mm	89mm	078-144
4	144 / 2367cc	82-84	22R, 22REC,	SOHC 8V & MFI From 3/82	92mm	89mm	078-144A
4	144 / 2367cc	84-84	22R, 22REC,	SOHC 8V & MFI	92mm	89mm	078-144B
4	144 / 2367cc	85-95	22R, 22REC	SOHC 8V & MFI Celica	92mm	89mm	078-144C
6	153 / 2507cc	88-91	2VZFE	DOHC 24V MFI	87.5mm	69.6mm	078-153
6	168 / 2759cc	81-82	5ME	SOHC 12V MFI	83mm	85mm	078-168
6	168 / 2759cc	82-84	5MGE	DOHC 12V MFI	83mm	85mm	078-168A
6	168 / 2759cc	84-88	5MGE	DOHC 12V MFI	83mm	85mm	078-168B
6	180 / 2954cc	86-92	7MGE	DOHC 24V MFI Cressida	83mm	91mm	078-180
6	180 / 2954cc	86-92	7MGE	DOHC 24V MFI Supra	83mm	91mm	078-180A
6	180 / 2954cc	87-92	7MGE	DOHC 24V MFI Turbo Supra	83mm	91mm	078-180B
6	181 / 2958cc	88-95	2VZE	DOHC 24V MFI	87.5mm	69.6mm	078-181
6	183 / 2995cc	00-04	1MZFE	24V DOHC 1MZFE SIENNA	87.5mm	82mm	078-183E
6	183 / 2995cc	00-04	1MZFE	24V DOHC 1MZFE EXC. 00-02 AVALON	87.5mm	82mm	078-183F
6	183 / 2995cc	94-95	1MZFE	DOHC 24V Avalon, Camery, Sienna, Solara	87.5mm	82mm	078-183
6	183 / 2995cc	96-99	1MZFE	DOHC 24V Avalon, Camery, Sienna, Solara	87.5mm	82mm	078-183A
6	183 / 2997cc	93-95	2JZGE	DOHC 24V Supra	86mm	86mm	078-183B
6	183 / 2997cc	93-98	2JZGTE	DOHC Turbo 24V Supra	86mm	86mm	078-183D
6	183 / 2997cc	96-98	2JZGE	DOHC 24V Supra	86mm	86mm	078-183C

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TOYOTA <i>Continued</i>							
6	237 / 3.9L	74-75	F		90mm	102mm	078-237
6	258 / 4.2L	81-87	2F		94mm	102mm	078-258A
6	258 / 4.2L	75-80	2F		94mm	102mm	078-258
TOYOTA TRUCK							
4	121 / 1998cc	98-00	3SFE	DOHC 16V Rav4	86mm	86mm	078-122F
4	121 / 1998cc	01-03	1AZFE	DOHC 16V VVT-I Rav4	86mm	86mm	078-122G
4	122 / 1998cc	84-85	3YEC	OHV 8V MFI Van	86mm	86mm	078-122E
4	122 / 1998cc	96-97	3SFE	DOHC 16V Rav4	86mm	86mm	078-122
4	131 / 2189cc	75-80	20R	8V SOHC 20R	88.5mm	89mm	078-132E
4	137 / 2237cc	86-90	4YEC	OHV 8V MFI	91mm	86mm	078-137
4	144 / 2362cc	01-05	2AZFE	DOHC 16V VVT-I Highlander, Rav4	89mm	86mm	078-144G
4	144 / 2367cc	81-82	22R, 22REC,	SOHC 8V & MFI To 3/82	92mm	89mm	078-144
4	144 / 2367cc	82-84	22R, 22REC,	SOHC 8V & MFI From 3/82	92mm	89mm	078-144A
4	144 / 2367cc	84-84	22R, 22REC,	SOHC 8V & MFI	92mm	89mm	078-144B
4	144 / 2367cc	85-95	22R, 22REC	SOHC MFI	92mm	89mm	078-144C
4	144 / 2367cc	85-95	22R, 22REC	SOHC MFI	92mm	89mm	078-144C-SP
4	144 / 2367cc	85-89	22RTEC	SOHC MFI	92mm	89mm	078-144D
4	144 / 2438cc	95-02	2RZFE	DOHC 16V Tacoma	95mm	86mm	078-144H
4	144 / 2438cc	90-95	2TZFE	DOHC 16V Previa	95mm	86mm	078-144F
4	144 / 2438cc	95-99	2RZFE	DOHC 16V Tacoma	95mm	86mm	078-144E
4	164 / 2693cc	94-05	3RZFE	DOHC 16V Tacoma, 96-01 4Runner, 94-98 T100	95mm	95mm	078-164
6	181 / 2958cc	88-95	3VZE	DOHC 24V MFI	87.5mm	82mm	078-181A
6	183 / 2995cc	00-04	1MZFE	24V DOHC 1MZFE EXC. 01-02 SIENNA	87.5mm	82mm	078-183F
6	206 / 3378cc	95-03	5VZFE	DOHC 24V 4Runner	93.5mm	82mm	078-206A
6	206 / 3378cc	95-03	5VZFE	DOHC 24V Tacoma, Tundra, T100	93.5mm	82mm	078-206
6	237 / 3.9L	60-71	F		90mm	102mm	078-237B
6	237 / 3.9L	72-73	F		90mm	102mm	078-237A
4	241 / 3955cc	88-88	3FE	OHV 12V MFI	94mm	95mm	078-241
6	273 / 4477cc	93-97	1FZFE	DOHC 24V Land Cruiser	100mm	95mm	078-273
8	287 / 4663cc	98-05	2UZFE	DOHC 32V VVT-I Tundra, Sequoia, 4Runner, Landcruiser	94mm	84mm	078-287
VOLKSWAGEN							
4	89 / 1471cc	74-75	FC	8V SOHC WATER COOLED Rabbit	76.5mm	80mm	082-089
4	97 / 1588cc	80-81	E, Y	Dasher	79.5mm	80mm	082-097
4	97 / 1588cc	80-81	E, Y	Rabbit, Scirocco, Jetta	79.5mm	80mm	082-097A
4	97 / 1588cc	81-84	CR, CS, JR	Diesel (M11 Head Bolt & 1 Groove Head Gsk)	76.5mm	80mm	082-097B
4	97 / 1588cc	81-84	CR, CS, JR	Diesel (M11 Head Bolt & 2 Grooves Head Gsk)	76.5mm	80mm	082-097C
4	97 / 1588cc	81-84	CR, CS, JR	Diesel (M11 Head Bolt & 3 Grooves Head Gsk)	76.5mm	80mm	082-097D
4	97 / 1588cc	82-84	CR, CS, JR	Diesel (M12 Head Bolt & 1 Groove Head Gsk)	76.5mm	80mm	082-097E
4	97 / 1588cc	82-84	CR, CS, JR	Diesel (M12 Head Bolt & 2 Grooves Head Gsk)	76.5mm	80mm	082-097F
4	97 / 1588cc	82-84	CR, CS, JR	Diesel (M12 Head Bolt & 3 Grooves Head Gsk)	76.5mm	80mm	082-097G
4	97 / 1588cc	82-84	CY, MD	Turbo-Diesel (M12 Head Bolt & 1 Groove Gsk)	76.5mm	80mm	082-097H
4	97 / 1588cc	82-84	CY, MD	Turbo-Diesel (M12 Head Bolt & 2 Grooves Gsk)	76.5mm	80mm	082-097I
4	97 / 1588cc	82-84	CY, MD	Turbo Diesel (M12 Head Bolt & 3 Grooves Gsk)	76.5mm	80mm	082-097J
4	97 / 1588cc	85-92	ME	Diesel (M12 Head Bolt & 1 Hole Head Gsk)	76.5mm	80mm	082-097K

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VOLKSWAGEN <i>Continued</i>							
4	97 / 1588cc	85-92	ME	Diesel (M12 Head Bolt & 3 Holes Head Gsk)	76.5mm	80mm	082-097M
4	97 / 1588cc	85-92	MF	Turbo-Diesel (M12 Head Bolt & 1 Hole Head Gsk)	76.5mm	80mm	082-097N
4	97 / 1588cc	85-92	MF	Turbo-Diesel (M12 Head Bolt & 2 Holes Head Gsk)	76.5mm	80mm	082-097O
4	97 / 1588cc	85-92	MF	Turbo-Diesel (M12 Head Bolt & 3 Holes Head Gsk)	76.5mm	80mm	082-097P
4	104 / 1715cc	81-84	EN, WT	Rabbit, Jetta, Scirocco (24mm Nose)	79.5mm	86mm	082-104
4	104 / 1715cc	81-84	EN, WT	Rabbit, Jetta, Scirocco (32mm Nose)	79.5mm	86mm	082-104A
4	109 / 1780cc	83-89	JH	SOHC 8V (Mech.)	81mm	86mm	082-109
4	109 / 1780cc	83-89	JH	SOHC 8V (Hyd.)	81mm	86mm	082-109A
4	109 / 1780cc	87-89	PL	DOHC 16V MFI	81mm	86mm	082-109C
4	109 / 1780cc	89-93	HT, PF, RD, RV	SOHC 8V (Brg. W/ Oil Hole)	81mm	86mm	082-109B
4	109 / 1780cc	89-90	PL	DOHC 16V MFI (Brg. W/ Oil Hole)	81mm	86mm	082-109D
4	120 / 1984cc	98-05	AEG	SOHC 8V New Beetle, 00-05 Golf/Jetta	82.5mm	92.8mm	082-121B
4	120 / 1984cc	98-99	AEG	SOHC 8V 98-99 Golf/Jetta	82.5mm	92.8mm	082-121C
4	121 / 1984cc	93-95	ABA	SOHC 8V Golf, Gti, Jetta,	82.5mm	92.8mm	082-121
4	121 / 1984cc	96-99	ABA	SOHC 8V Golf, Gti, Jetta, Passat	82.5mm	92.8mm	082-121A
5	131 / 2144cc	82-83	KM, WE	SOHC	79.5mm	86.4mm	082-131
5	131 / 2144cc	84-84	KM, WE	SOHC	79.5mm	86.4mm	082-131A
5	136 / 2226cc	85-90	JT, KX	SOHC Quantum	81mm	86.4mm	082-136
6	171 / 2792cc	92-00	AAA	SOHC 12V Corrado, Gti, Jetta, Passat	81mm	90.3mm	082-171
VOLKSWAGEN TRUCK							
4	104 / 1715cc	81-83			79.5mm	86mm	082-104A
VOLVO							
4	130 / 2127cc	79-83	B21E, B21F	SOHC 8V MFI	92mm	80mm	085-130
4	130 / 2127cc	81-85	B21FT	SOHC 8V MFI Turbo	92mm	80mm	085-130A
4	141 / 2316cc	85-87	B230F,FD,FS	SOHC 8V MFI	96mm	80mm	085-141
4	141 / 2316cc	85-87	B230FT	SOHC 8V MFI Turbo	96mm	80mm	085-141B
4	141 / 2316cc	88-89	B230F,FD,FS	SOHC 8V MFI	96mm	80mm	085-141A
4	141 / 2316cc	88-89	B230FT	SOHC 8V MFI Turbo	96mm	80mm	085-141C
4	141 / 2316cc	90-95	B230FT	SOHC 8V MFI Turbo	96mm	80mm	085-141D
5	142 / 2319cc	93-97	B5234FT	DOHC 20V Turbo C70, S70, V70, 850	81mm	90mm	085-142
6	145 / 2383cc	81-85	D24	Diesel 12mm Head Bolts (2 Grooved Hd Gsk)	76.5mm	86mm	085-145
6	145 / 2383cc	81-85	D24	Diesel 12mm Head Bolts (3 Grooved Hd Gsk)	76.5mm	86mm	085-145A
6	145 / 2383cc	82-86	D24T	Turbo Diesel 12mm Hd Blts (2 Grooved Hd Gsk)	76.5mm	86mm	085-145B
6	145 / 2383cc	82-86	D24T	Turbo Diesel 12mm Hd Blts (3 Grooved Hd Gsk)	76.5mm	86mm	085-145C
5	149 / 2435cc	93-97	B5254FS	DOHC 20V S70, V70, 850	83mm	90mm	085-149
6	178 / 2922cc	91-94	B6304FS	DOHC 20V 960	83mm	90mm	085-178
6	178 / 2922cc	95-97	B6304FS	DOHC 20V 960	83mm	90mm	085-178A
6	178 / 2922cc	98-99	B6304FS	DOHC 20V 960	83mm	90mm	085-178B

JPW Heavy Duty Engine Kit Catalog

ALLIS CHALMERS

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
3	153	3.437		3AD-152 Direct Injection Perkins -Diesel	202-153
4	125	3.375		B-15, B-125 Wheel Tractor B,C, CA, 1B, RC 60H Combine, B15 Power Unit	202-125
4	149	3.500		G-149 Gasoline Wheel Tractor	202-149
4	201	4.000		G-201 Gasoline 4 1/8 Overbore	202-201
4	226	4.000		G226 Gasoline	202-226
4	226	4.000		G226 Gasoline	202-226
4	226	4.000	From 146607	G-226 / D17, WD45, 170 Tractor	202-226A
4	236	3.875		4A-236	202-236
4	248	3.978	To 4203049	Perkins Diesel 4.248	202-248
4	248	3.978	From 4203050	Perkins Diesel (4.248)	202-248A
4	344	4.437	From 133224	MK6000 / 7000 Mark II Diesel W/ Deep Cup 2.260 Dia. & Rod Brg Oil Hole , Flange Main Brg.	202-344
4	344	4.437	From 133222	MK6000 / 7000 Mark II Diesel W/ Shallow Cup 3.00" & Rod Brg. Oil Hole , Flanged Main Brg.	202-344A
4	344	4.437	From 133222	MK6000 / 7000 Mark II Diesel W/ Shallow Cup 3.00" & Rod Brg. Oil Hole, Thrust Washer	202-344B
4	344	4.437	From 133224	MK6000 / 7000 Mark II Diesel W/ Deep Cup 2.60" & Rod Brg. Oil Slot, Flanged Main Brg.	202-344C
4	344	4.437	From 133222	MK6000 / 7000 Mark II Diesel W/ Shallow Cup 3.00" & Rod Brg Oil Slot, Flanged Main Brg.	202-344D
4	344	4.437	From 133224	MK6000 / 7000 Mark II Diesel W/Deep Cup 2.260 & Rod Brg. Oil Hole , Thrust Washer	202-344E
6	262	3.562		G262	202-262
6	262	3.562		D262 / DA-262W/ Press On Flywheel Housing	202-262A
6	262	3.562		D-262 Diesel W/ Bolt On Flywheel Housing	202-262B
6	301	3.875		D-2800/2900 180, 185D, 190, 190XT, 200, 7000, 7010 Tractor Gleaner, F, G, L, M, Combines	202-301
6	301	3.875		D-2900, 649T /200, 7000, 7010DS, 7010PD, 7010PS,7020 Tractors G, L, M, Combines	202-301A
6	426	4.250		D3400, D3500; 670, 670I, 670T Main Bearing W/Oil Slot	202-426
6	426	4.250		D3400, D3500, D3700 Non-Mark Engines	202-426A
6	649	3.875		D2800, D2900	202-649

Case / IH (formerly Case)

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
4	148	3.375		G-148, G-148B Gasoline 200,210B,300,300B,310,310B,310C,310D, 310E,311	215-148
4	148	3.375		148B GASOLINE 430, 440	215-148A
4	148	3.375	From 8656925	G-148-B GASOLINE 470 Std Bore	215-148B

JPW Heavy Duty Engine Kit Catalog

Case / IH (formerly Case) continued

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
4	188	3.8125		G-188D Diesel 310B,311B,320B,330,420,430,440,441,470,480, 530,531,540,541,570,580B,584,600,610,630,640,680, 680CK W/4.458 Flange	215-188
4	188	3.8125		G-188-D Diesel 310B,311B,320B,330,420,430,440,441,470,480, 530,531,540,541,570,580B,584,600,610,630,640,680, 680CK W/4.537 Flange	215-188A
4	188	3.8125		G-188-D Diesel 310B,311B,320B,330,420,430,440,441,470,480, 530,531,540,541,570,580B,584,600,610,630,640,680, 680CK W/4.537 Flange	215-188A
4	207	4.000		G-207-D Wheel Tractor 350,480,480B,580C,580CKC, 580DEarly Style S/N 2869290 Piston W/ 2 1/4 Bowl	215-207
4	207	4.000		G-207-D Diesel 350,480,480B,580C,580CKC,580D,584 Late Style From S/N 2869291 Piston W/ 2 1/2" Bowl	215-207A
4	267	4.125		A-267D / Diesel 400,680CK,680CK-B,700B,701B, 702B,703B,720,730,740,770,770AK,800,800B,801 B802B,803B Pin Dia. 1.3585 Thrust Washer .156"	215-267
4	267	4.250		A-267D / Diesel 400,700B,730,740,800B, Power Boost 4.250 Pin Dia. 1.3585 Thrust Washer .156" Exc. Case-o-matic Transm.	215-267A
4	267	4.250		A-267D / Diesel 400,680CK,680CK-B,700B,701B, 702B,703B,720,730,740,770,770AK,800,800B,801B, 802B,803B Power Boost Kit 4.25 Pin Dia. 1.3585 Thrust Washer .186"	215-267B
4	267	4.125		A-267-D / Diesel 400,680K,680CKB,700B,701B,703B, 720,730,740,770,770AK,800,800B,801B,802B,803B Pin Dia. 1.3585 Thrust Washer .186"	215-267C
4	267	4.250	From 2539001	A-267D / Diesel 400,680CK-B,700B,730,740,800B Power Boost Kit 4.25 Pin Dia. 1.3585 For Case O-matic Trans.	215-267D
4	301	4.375	To 7073469	A-301D/ DF / Diesel 830,840,850 Pin Dia. 1.5 Thrust Washer .156"	215-301
4	301	4.375	To 7073469	A-301D / DF / Diesel 830,840,850 Pin Dia. 1.5 Thrust Washer .186"	215-301A
4	301	4.375	From 7073469	A-301BD / Diesel 680CK Series C Pin Dia. 1.5 Thrust Washer .186"	215-301B
4	301	4.375	From 9811301	A-301BD / Diesel 680, 850 Pin Dia. 1.5 Thrust Washer .156"	215-301C

JPW Heavy Duty Engine Kit Catalog

Case / IH (formerly Case) continued

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
4	336	4.625	To 2539000	A336-BD / Diesel Naturally Aspirated 680,780,780CK, 850,870 Pin Dia. 1.625 Thrust Washer .156"	215-336
4	336	4.625	From 2539001	A-336BD / Turbo Diesel 870 Pin Dia. 1.7995	215-336
4	336	4.625	From 2539001	A-336-BD / Diesel Naturally Aspirated 680,780,780CK, 850,870 Pin Dia. 1.625 Thrust Washer .186"	215-336A
4	336	4.625	To 2539000	A336-BD / Diesel Naturally Aspirated 680,780,780CK, 850,870Pin Dia. 1.625 Thrust Washer .186"	215-336B
4	336	4.625	To 2539000	A336-BD / Diesel Naturally Aspirated 680,780,780CK, 850,870Pin Dia. 1.625 Thrust Washer .186"	215-336B
4	336	4.625	From 2539001	A336-BD Diesel Naturally Aspirated 680,780,780CK, 850,870 Pin Dia. 1.625 Thrust Washer .156"	215-336C
4	336	4.625	To 253900	A336-BDT / Turbo Diesel 870 Pin Dia. 1.7995	215-336D
4	336	4.625	From 2539001	A336-B / Diesel Naturally Aspirated 3 O-Ring Sleeve, 870 From 2539000 To 8675001 Pin Dia. 1.8	215-336F
4	451	4.375		A451-BDT / Turbo Diesel 1170,1175,1270 Pin Dia. 1.625 Thrust Washer .156"	215-451
4	451	4.375		A451-BDT / Turbo Diesel 1170,1175,1270 Pin Dia. 1.625 Thrust Washer .186"	215-451A
6	401	4.250		A401-D / Diesel 920,930,940,970 Power Boost Kit 4 1/4; Thrust Washer .156"	215-401
6	401	4.125		A401-D / Diesel 920,930,940,970 Thrust Washer .186"	215-401A
6	401	4.125		A401-D / Diesel 920,930,940,970 Power Boost Kit 4 1/4 Thrust Washer .156"	215-401B
6	401	4.250		A401-D / Diesel 920,930,940,970 Power Boost Kit 4 1/4; Thrust Washer .186"	215-401C
6	401	4.125		401BD / BDT / Diesel & Turbo Diesel 970 Pin Dia. 1.5 Thrust Washer .186"	215-401D
6	401	4.125		401BD / BDT / Diesel & Turbo Diesel 970 Pin Dia. 1.5 Thrust Washer .156"	215-401E
6	451	4.375		A451BD / Diesel Naturally Aspirated 1070,1090,1200 Pin Dia. 1.5 Thrust Washer .156"	215-451
6	451	4.375		A451-BD / Diesel Naturally Aspirated 1070,1090,1200 Pin Dia. 1.5 Thrust Washer .186"	215-451A
6	451	4.375		A451D / Diesel 970,1030,1200 Pin Dia. 1.5 Thrust Washer .156"	215-451B
6	451	4.375		A451-D / Diesel 970,1030,1200 Pin Dia. 1.5" Thrust Washer .186"	215-451C

JPW Heavy Duty Engine Kit Catalog

Case / IH (formerly Case) continued

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
6	504	4.625		504BD / Diesel Naturally Aspirated 2090 Pin Dia. 1.625	215-504
6	504	4.625	To 2539000	A504-BD / Diesel Naturally Aspirated Pin Dia. 1.625 Thrust Washer .156"	215-504A
6	504	4.625	To 2539000	A504-BD / Diesel Naturally Aspirated Pin Dia. 1.625 Thrust Washer .186"	215-504B
6	504	4.625	From 2539001	A504BD / Diesel Naturally Aspirated Pin Dia. 1.625 Thrust Washer .156"	215-504C
6	504	4.625	From 2539001	A504BD / Diesel Naturally Aspirated Pin Dia. 1.625 Thrust Washer .186"	215-504D
6	504	4.625	From 2539001	A504-BD / Diesel Naturally Aspirated W/ 3 O Ring W/ Sleeve Fire Dam Dia. 5.189 To 5.194 Pin Dia. 1.8	215-504E
6	504	4.625	To 2539000	A504-BDT / Turbo Diesel 1370,1470,1507,2090, 2290,2390,2470,2590,2670,4490 Pin Dia. 1.7995	215-504F
6	504	4.625	To 2539000	504-BDT* / Diesel 1570,2390,2470,2590,4490 * Engines Prior To 253900 May Require Counter Bore Machining To Accept Late Style Sleeves	215-504G
6	504	4.625	From 2539001	A-504BDT / Turbo Diesel 1370,1470,1507,2090, 2290,2390,2470,2590,2670,4490 Pin Dia. 1.7995	215-504H
6	504	4.625		504-BDT* / Diesel 2290 *W/ O.E. Piston # 153323	215-504I
6	504	4.625		504-BDTI / Diesel Turbo Aftercooled 2670,4960	215-504J

Case / IH (formerly IH Tractor)

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
3	179	3.875		D-179 / Diesel 240A, 240AHS, 454, 464, 484, 2400A, 2400B, 2412B, 3400A, 3400B W/ Engines Built Before 2/1975 (w/ 1.264" rod bearing length)	244-179
3	179	3.875		D-179 / Diesel 240A,240AHS,454,464,484,2400A, 2400B,2412B,3400A, 3400B W/ Engines Built From 1975 & Up (w/1.181" rod bearing length)	244-179A
4	113	3.000		C-113 / Gasoline AL,Super A	244-113
4	113	3.000	From 25001 - 310300	C-113 / Gasoline & Distillate A,AV,B,BN (S/N 100001), C (S/N 25001-310300), Super A, Super AV	244-113A
4	113	3.000	From 310301	C-113 / Gasoline Super A,Super AV Power Boost Kit 3 1/4" Bore	244-113B
4	113	3.125	250001 - 310300	C-113 / Gasoline A,AV,B,BN,C (To 10001) Super A & AV From 250001-310300) W/ Crown Piston & 3.125 Over-Bore	244-113C
4	113	3.125	To 310300	C-113 / Gasoline A,Al,AL,AV,AVI,B,BN,C, Super A,Super AC & AV Power Boost Kit 3 1/8"	244-113D
4	123	3.125		C-123 / Gasoline 130,140,230,240	244-123

JPW Heavy Duty Engine Kit Catalog

Case / IH (formerly IH Tractor) continued

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
4	123	3.125		C-123 / Gasoline 200,Super C W/Crown Head Piston	244-123A
4	123	3.125		C-123 / Gasoline Super C W/ Flat Head Piston	244-123B
4	123	3.125	To 35831	Gasoline Super A-1,SuperAV-1,SuperC,100,200 Power Boost Kit 3 1/4" Bore	244-123C
4	123	3.125		C123,U123 / Gasoline 130,140,140HC,140U,230,240,240V,A,AI,AV,AVI,B,BN,C,I-140,T4	244-123D
4	135	3.250	To 100500	Gasoline 330,340,2404	244-135
4	135	3.250	From 100500	Gasoline 330,340,2404	244-135A
4	152	3.375	To 391357	Gasolone H,HV	244-152
4	152	3.375	From 391358	Gasolone H,HV,OS-4,W-4 (From S/N 33340)	244-152A
4	152	3.375	To 391357	Gasolone HV,I-4;O-4 & W-4 (From 501-33339) W/ Fire Power Piston 3.4375 Overbore	244-152B
4	152	3.375	From 391358	Gasolone H,HV, OS-4,W-4 (From S/N 33340) W/ Fire Power Piston 3.475 Overbore	244-152C
4	152	3.375	To 391358	Gasoline (Early Engine) W4,Super H,Super HV, Super W4 Power Booster Kit 3 7/16" Bore	244-152D
4	152	3.375	From 391358	Gasolone (Late Engine) W4,Super H,Super HV, Super W4 Power Booster Kit 3 7/16" Bore	244-152E
4	154	3.500	To 57679	BD-154 / Diesel B238,B275,B354,B364,B384,B414,B424,B434,B444,B500,B2424,2424D,B2444,B3414,B3444	244-154
4	154	3.500	From 57679	BD-154 / Diesel B238,B275,B354,B364,B384,B414,B424,B434,B444,B500,B2424,2424D,B2444,2444D,B3414,B3444	244-154A
4	164	3.500		C-164 / Gasoline Super H,SuperHV,SuperW4 W/Fire Power Piston 3.5626" Overbore	244-164
4	169	3.5625		C-169 /C-175 / Gasoline & L.P. 350,350U,1300,1350,F350,F350FS,W-350,300,300HC,300U,F300	244-169
4	169	3.5625		C-169 / Gasoline & L.P. 300,300HC,300U,F300,350,350U,1300,1350,F350,F350HS,W-350 W/ Flat Haed Piston	244-169A
4	175	3.5625		C-175 / Gasoline & L.P. 300,300HC,300U,F300,350,350U,1300,1350,F350,F350HS,W-350 W/ Flat Haed Piston	244-175
4	175	3.5625		C-175 / Gasoline & L.P. w/Firepower Piston 350,350U,1300,1350,F350,F350FS,W-350,300,300HC,300U,F300	244-175A

JPW Heavy Duty Engine Kit Catalog

Case / IH (formerly IH Tractor) continued

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
4	188	3.6875	From 71779	Diesel 560,656,706,2510,2544,2656,2706,3600A, 3800,3850 Main Brg Set-No. 3 Brg. Flange 4.00"	244-188
4	188	3.6875	From 12094	Diesel 504,2504,3514, Main Brg Set-No. 3 Brg. Flange 4.00"	244-188A
4	239	3.875		D-239 Diesel 544,574,674,684,2500A,2500B, 2544,3500A,3514,3514A,5000,5500 Engine Built To 02/1975	244-239
4	239	3.875		D-239 / Diesel 544,574,674,684,2500A,2500B, 2544,3500A,3514,3514A,5000,5500 Built To 1975 & Up	244-239A
4	248	3.875	To 7610	C-248 / Gasoline Early I-4,M,MV,O6,OS6,W6 W/ Fuel Iron Piston & Std Comp./Bore	244-2448B
4	248	3.875	To 7610	C-248 / Gasoline Early M,MV,Ind 16,IU16,O6,OS6,W6 W/ Fuel Iron Piston & Std Comp./Bore	244-248
4	248	3.875	To 7610	C-248 / Gasoline Early M,MV,Ind 16,IU16,O6,OS6,W6 W/Fire Power Piston Std Comp. 4.00" Overbore	244-248A
4	248	3.875	From 7610	Gasoline Late I-4,M,MV,O-6,OS-6,W6 W/ Flat Head Piston & 4.00" Overbore	244-248C
4	248	3.875	From 7610	Gasoline Late M,MV,O-6,OS-6,W6 W/ Fuel Iron Piston & Std Comp. Bore	244-248D
4	248	3.875	From 7610	Gasoline Late I-4,M,MV,O-6,OS-6,W6 W/ Fuel Iron Piston & 4.00" Overbore	244-248E
4	264	4.125	From 163808	Gasoline & L.P 400,W400 W/ Fire Power Piston 4.125" Overbore	244-254B
4	264	4.000		C-264 / Gasoline Super MT,Super MV,Super W6,W350 W/ Std Comp. Bore	244-264
4	264	4.125		C-264 / Gasoline & L.P. Super M, Super MTA, Super MV,Super W6,W400 W/ Fire Power Piston 4.125" Overbore	244-264A
4	264	4.000		C-264 / Gasoline 400, Super M,Super MTA, Super MV,Super W6 W/1.313 Pin Dia. & 4.125" Overbore	244-264C
4	281	4.125		C-281 / Gasoline & L.P 450,F450,F450HC,W450	244-281
6	221	3.5625		C-221 / Gasoline 460,460HC,460HU,460U,F460	244-221
6	221	3.5625		C-221 / Gasoline 606, 2606 W/ 3.750" Main Brg Flange Dia.	244-221A
6	221	3.5625		C-221 / Gasoline 606, 2606 W/ 4.00" Main Brg.Flange Dia.	244-221B
6	236	3.6875	From 16621	Diesel 606D,2606D,3514D,3616D W/ 1.125 Pin Dia. & 17.6:1 Comp. Ratio	244-236
6	236	3.6875		D-236 / Diesel 315,460D,460DV,606,2606,3616 Main Brg Set-No. 3 Brg. Flange 3.75"	244-236A
6	236	3.6875		D-236 / Diesel 315,460D,460DV,606,2606,3616 Main Brg Set-No. 3 Brg. Flange 4"	244-236B

JPW Heavy Duty Engine Kit Catalog

Case / IH (formerly IH Tractor) continued

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
6	236	3.6875	From 1662	D-236 Diesel 315,460D,460VD,606,2606,3616 Main Brg Set-No. 3 Brg. Flange 4"	244-236C
6	263	3.5625		C-263 / Gasoline 565,706,2656,2706,3600A,3800,3850 Main Brg Set-No. 3 Brg. Flange 3.75"	244-263
6	263	3.5625		C-263 / Gasoline 560,660 Main Brg Set-No. 3 Brg. Flange 3.75"	244-263A
6	263	3.5625		C-263 / Gasoline 656,706,2656,2706,3600A,3800,3850 Main Brg Set-No. 3 Brg. Flange 4"	244-263B
6	263	3.5625	From 560-36693	C-263 / Gasoline 560,660 Main Brg Set-No. 3 Brg. Flange 4" After S/N 560-36693,660-38982,414- 366693,420-36693	244-263C
6	282	3.6875	From 44822 - 71778	Diesel D282 560,656,706,2510,2544,2656,2706, 3600A,3800,3850 Main Brg Set-No. 3 Brg. Flange 3.75"	244-282
6	282	3.6875	From 44821 - 71778	Diesel 560,656,706,2510,2544,2656,2706,3600A, 3800,3850 Main Brg Set-No. 3 Brg. Flange 3.75"	244-282A
6	282	3.6875	From 71779	Diesel 403,416,422,615 Main Brg Set-No. 3 Brg. Flange 3.75"	244-282B
6	282	3.6875	From 71779	Diesel D282 560,656,706,2510,2544,2656,2706, 3600A,3800,3850 Main Brg Set-No. 3 Brg. Flange 4"	244-282C
6	291	3.750		C-291 / Gasoline 666,686,706,756,766,2706,2756 Main Brg Set-No. 3 Brg. Flange 3.75"	244-291
6	291	3.75		C-291 / Gasoline 666,686,706,756,766,2706,2756 Main Brg . Flange 4"	244-291A
6	310	3.875		D-310 / Diesel 706,756,2706;2756 (1965- 1975)	244-310
6	310	3.875		D-310 / Diesel 706,756,2706;2756 (1975- 1979)	244-310A
6	358	3.875	To 12147	D-358 / Diesel 786,826,886,2806,2856,3088 (To S/N 12147) W/ 1.500" Pin Dia.	244-358
6	358	3.875	To 14472	D-358 / Diesel 786,826,2806;886 (S/N To 14472); 3288 (S/N To 1110900)	244-358A
6	360	3.875		D-360 / Diesel 760,886	244-360
6	361	4.125		D-361 / Diesel 806,1206,2806,21026,21206	244-361
6	361	4.125		DT-361 / Diesel Turbo 175,1206,21206	244-361A
6	407	4.321		D-407 / Diesel 856,1026,1256,2856,21026,21206, 21256,21456 W/ Pin Dia. 1.50"	244-407
6	407	4.321		DT-407 / Diesel Turbo 1456,21456 W/ Pin Dia. 1.5/8"	244-407A
6	414	4.3005		D-414 / Diesel 966,815	244-414
6	414	4.3005		DT-414 / Diesel Turbo 960,966,1066,1086	244-414A
6	414	4.3005	From 140024	DT414B / Diesel Turbo 1066,1086	244-414B

JPW Heavy Duty Engine Kit Catalog

Case / IH (formerly IH Tractor) continued

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
6	436	4.3005	To 74999	DT-466 / Diesel Turbo 422,1470,3588,3788,4366, 4386,5288,5488,6588,7388	244-436
6	436	4.3005	To 63635	DT-436 / Diesel Turbo 966,1440,1466,1486,1566, 1586,3388,3588,3688,4100,4156,4166,4186,5 088,6388	244-436A
6	436	4.3005	From 63636	DT-436/DT-436B Turbo Diesel 966, 1440, 1466, 1486, 1566,1586, 3388, 3588, 3688, 4100, 4156, 4166, 4186, 5088, 6388 (w/valve cover mounted breather.)	244-436B
6	466	4.3005	From 76440 - 439617	Diesel Turbo DTI466 3588,3788,4386,5288,5488 From Ser.# 76440 to 439617	244-466
6	466	4.3005	From 4396 - 532980	Diesel Turbo DTI-466 From Ser. # 4396 to 532980	244-466A
6	466	4.3005	From 532981 - 594840	DT-466C / Diesel DT-466C,DTI-466C,DTA- 466C W/ S/N From 532981- 594840	244-466B
6	466	4.3005	From 594841 - 618495	DT-466C / Diesel DT-466C,DTI-466C,DTA- 466C W/ S/N From 594841- 618495	244-466C
8	404	4.125		MV404 / Gasoline Power Units (Exc.High Vacuum)	244-404
8	404	4.125		MV404 / Gasoline Power Units W/High Vacuum	244-404A
8	404	4.125		MV404 / L.P. Power Units (Exc.High Vacuum)	244-404B
8	404	4.125		MV404 / L.P. Power Units W/High Vacuum	244-404C
8	446	4.125		MV446 / Gasoline Power Units (Exc.High Vacuum)	244-446
8	446	4.125		MV446 / Gasoline Power Units W/High Vacuum	244-446A
8	446	4.125		MV446 / L.P. Power Units (Exc.High Vacuum)	244-446B
8	446	4.125		MV446 / L.P. Power Units W/High Vacuum	244-446C
8	549	4.5	From 64556	549 Gasoline Power Unit	244-549
8	549	4.5	To 64555	549 Gasoline Power Unit	244-549A

CUMMINS

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
3	180	4.0165 x 4.724		3B2.9 Diesel	220-180
3	180	4.0165 x 4.724		3BT2.9 Turbo Diesel	220-180A
4	239	4.0165 x 4.724		4B3.9,4-390 Diesel	220-239
4	239	4.0165 x 4.724		4BT3.9,4T-390 Turbo Diesel	220-239A
4	239	4.0165 x 4.724		4BTA3.9 Turbo Aftercooled Diesel	220-239B
6	359	4.0165 x 4.724		6B5.9, 6-590 Diesel	220-359
6	359	4.0165 x 4.724		6BT5.9, 6T-590 Turbo Diesel	220-359A
6	359	4.0165 x 4.724		6BTA5.9 Turbo Aftercooled Diesel	220-359B
6	743	5.1250 x 6.000		NH-220 Diesel w/crevice seal	220-743
6	855	5.2500 x 6.000		855 SERIES Diesel PREMIUM Cylinder Kit SM. & BIG CAM I,II,III	220-855
6	855	5.2500 x 6.000		855 SERIES Diesel PREMIUM PLUS Cylinder Kit BIG CAM IV	220-855A
6	1150	6.2500 x 6.250		KT19 450/1150 1PC Timing Cover	220-1150
6	1150	6.2500 x 6.250		KT19 450/1150 2PC Timing Cover	220-1150A
6	1150	6.2500 x 6.250		KTA19 600/1150 1PC Timing Cover	220-1150B

JPW Heavy Duty Engine Kit Catalog

CUMMINS continued

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
6	1150	6.2500 x 6.250		KTA19 600/1150 2PC Timing Cover	220-1150C
8	504	4.6250 x 3.750		V8-210, V504 Diesel	220-504
8	555	4.6250 x 4.125		VT555 TRIPLE NICKEL w/crevice seal	220-555
8	903	5.5000 x 4.750		V903/VT903	220-903

DAVID BROWN

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
3	164	3.9388 x 4.490		AD3/55 Diesel	243-164
4	219	3.9388 x 4.490	thru 1979	AD4/55 Diesel	243-219
4	219	3.9388 x 4.490	from 1980	AD4/55 Diesel	243-219A

DETROIT DIESEL

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
3	159	3.8750 x 4.490		3-53N Diesel	253-159
4	212	3.8750 x 4.490		4-53N Diesel	253-212
4	212	3.8750 x 4.490		4-53T Turbo Diesel	253-212A
4	284	4.2500 x 5.000		4-71N Diesel TRUNK TYPE	253-284
4	284	4.2500 x 5.000		4-71N Diesel CROSSHEAD TYPE	253-284A
6	318	3.8750 x 4.490	to S/N 6D-17960	6V-53N Diesel	253-318
6	318	3.8750 x 4.490	from S/N 6D-17961	6V-53N Diesel	253-318A
6	318	3.8750 x 4.490	to S/N 6D-17960	6V-53N Turbo Diesel	253-318B
6	318	3.8750 x 4.490	from S/N 6D-17961	6V-53N Turbo Diesel	253-318C
6	426	4.2500 x 5.000		6-71N Diesel TRUNK TYPE	253-426
6	426	4.2500 x 5.000		6-71N Diesel CROSSHEAD TYPE	253-426A
6	426	4.2500 x 5.000		6-71T Turbo Diesel CROSSHEAD TYPE	253-426B
6	426	4.2500 x 5.000	Truck only	6V-71N Diesel CROSSHEAD TYPE	253-426C
6	426	4.2500 x 5.000	Coach only	6V-71N Diesel CROSSHEAD TYPE	253-426D
6	426	4.2500 x 5.000	Truck only	6V-71T Turbo Diesel CROSSHEAD TYPE	253-426E
6	426	4.2500 x 5.000	Coach only	6V-71T Turbo Diesel CROSSHEAD TYPE	253-426F
6	552	4.8400 x 5.000	exc. Coach	6V-92T Turbo Diesel CROSSHEAD TYPE	253-552

DETROIT DIESEL continued

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
6	552	4.8400 x 5.000	Coach only	6V-92T Turbo Diesel CROSSHEAD TYPE	253-552A
8	500	4.2500 x 4.400		8.2 Diesel FUEL PINCHER	253-500
8	500	4.2500 x 4.400		8.2 Turbo Diesel FUEL PINCHER	253-500A
8	568	4.2500 x 5.000	Truck only	8V-71N Diesel TRUNK TYPE	253-568
8	568	4.2500 x 5.000	Coach only	8V-71N Diesel TRUNK TYPE	253-568A
8	568	4.2500 x 5.000	Truck only	8V-71N Diesel CROSSHEAD TYPE	253-568B
8	568	4.2500 x 5.000	Coach only	8V-71N Diesel CROSSHEAD TYPE	253-568C
8	568	4.2500 x 5.000	exc. Coach	8V-71T Turbo Diesel CROSSHEAD TYPE	253-568D
8	568	4.2500 x 5.000	Coach only	8V-71T Turbo Diesel CROSSHEAD TYPE	253-568F
8	736	4.8400 x 5.000		8V-92T Turbo Diesel CROSSHEAD TYPE	253-736
12	852	4.2500 x 5.000	exc. Alum VC	12V-71N Diesel TRUNK TYPE	253-852
12	852	4.2500 x 5.000	exc. Alum VC	12V-71N Diesel CROSSHEAD TYPE	253-852A
12	852	4.2500 x 5.000	exc. Alum VC	12V-71N Turbo Diesel CROSSHEAD TYPE	253-852B

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FORD TRACTOR					
CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
3	158	4.200		158 Gasoline 231,2000 Dexta,2600,3000,Super Dexta Engine Built 1965-1991	237-158A
3	158	4.200		158 Diesel 231,2000 Dexta, 2600 Engines From 1695-1990	244-158A
3	175	4.200		175 / Diesel 340, 3000 Super Dexta Engines From 1965-1990	237-175
3	201	4.400		201 Diesel 4000 Major Special Replacement Sleeve	237-201
3	201	4.400		201 Diesel 4000 Major Special Replacement Sleeve From 1969	237-201A
3	201	4.400		201 Diesel 540,545,555,4000 Major,4600 Engines From 6/1969 to 1990	237-201B
3	201	4.400		201 / Diesel 540,545,555,4000,4600 W/ Piston Length 4.968" & Comp. Dist. 2.662 6/1969 to 1981	237-201C
3	201	4.400		201 / Diesel 540,545,555,4000,4600 Engines From 1965-1969	237-201D
4	120	3.1875		120 Gasoline 2N,2NAN,8N,8NAN,9N,9NAN Sleeve .040" Wall / 3.367 O.D.	237-120
4	120	3.1875		120 Gasoline 2N,9N,8N 8N To 433537 Sleeve W/ .040 Wall & 4-Ring Piston	237-120A
4	120	3.1875		201 Gasoline 2N,2NAN,8N,8NAN,9N,9NAN Sleeve W/ .090 Wall / 3.367 O.D.	237-120B
4	120	3.1875		120 Gasoline 2N,9N,8N From 433537 Sleeve W/ .090 Wall / 4-Ring Piston	237-120C
4	120	3.270		120 Gasoline 2N,8N,9N Overbore Conversion- 3.270"	237-120D
4	134	3.4375		134 Gasoline 600,700,NAA Engine Built From 1953-1981	237-134
4	134	3.4375	From 153170	134 Gasoline & L.P. 500,600,700,NAA,NAB,901, 2000 Series & 2001 Series From 153170 Std Bore	237-134A
4	134	3.4375		134 Gasoline & L.P. 500,600,700,901,2000,2001 Series NAA,NAB, (1958-1965) Overbore 3.50"	237-134B
4	134	3.500		134 Gasoline 600,700,NAA Engines Built 1953-1981 Power-Boost 3.500"	237-134C
4	172	3.900		172 Gasoline 800,900,1800,4000 Sleeved Engines From 1958-1981	237-172
4	172	3.9		172 Gasoline & L.P. 800,900,4000 Series,4100 Series Std Bore	237-172A
4	172	3.9		172 Gasoline 800,900,1800,4000 Engines From 1958-1981 (Non Sleeved)	237-172B
4	172	3.9		172 Diesel 800,90,1800,4000 Sleeved Engines 1958-1981	237-172C
4	172	3.9		172 Diesel 800,900,1800,4000 Engines From 1958-1981 (Non-Sleeved)	237-172D

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FORD TRACTOR continued

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
4	233	4.2		233 Diesel 5000 Super Major Engines From 1965-1968	237-233
4	256	4.4		233 Diesel 5000,5500 From 4/68 5500 Rebore Kit	237-256
4	256	4.4		256 Diesel Turbo 7000 Engines From 1969-1981	237-256A
6	401	4.4007		401 Diesel 8000 (Expect Turbo) 1968-1976 W/ 1/2" Head Bolts	237-401
6	401	4.4007		401 Diesel 8000,TW10 (Except Turbo) Engines From 1976-1983 W/ Head Bolts 9/16"	237-401A
6	401	4.4007		401DT Diesel Turbo 9000,TW20 From 8/1976 to 1981 W/ 9/16" Head Bolts	237-401B
6	401	4.4		401 Diesel Turbocharged 9000,TW20 Engines From 1969-1976 W/ 1/2" Head Bolts	237-401C

JOHN DEERE

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
3	135	3.8583	To 162078	JD135G Gasoline JD300,JD350,301,820,830,1020	248-135
3	135	3.8583	From 162079	135 Gasoline JD300,JD350,301,820,830,1020	248-135A
3	152	3.8583		JD152D Diesel JD300,JD350,301,820,830,1020,1030 (Early) W/ 3-Sealing Rings	248-152
3	152	3.8583		JD152D Diesel JD300,JD350,301,820,830,1020,1030 (Late) W/ 3-Sealing Rings & No Grooves On Sleeve	248-152A
3	164	4.0157	164 To 160309	Diesel 1520	248-164
3	164	4.0157	From 160310	Diesel 1520	248-164A
3	164	4.0157	178601	Diesel 3164 1530 W/ Keystone Top Groove	248-164B
3	164	4.0157	178601-179600	Diesel 3164 1530	248-164C

JOHN DEERE continued

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
3	179	4.1929		3179T / Diesel 2355N, W/ Keystone Top Ring	248-179
3	179	4.1929		3179D / Diesel 2040,2140,2150,2155,2240,2250, 2255,2255V,2355M W/ Keystone Top Ring	248-179A
4	145	3.625	145 - 35833	Gasoline 2010 Series W/ Full Groove Main Brgs. (Early)	248-145
4	145	3.625	145 - 35833	Gasoline 2010 Series W/ Half Groove Main Brgs. (Late)	248-145A
4	180	3.8583	To 159926	Gasoline 2020,2510	248-180
4	180	3.8583	From 159927	Gasoline 2020,2510	248-180A
4	201	4.000		201 Gasoline 3010 W/ Block # R26150, R26160	248-201
4	202	3.8583	From 157354	202 Gasoline 2520 W/ 3-Ring Sealing Rings & No Grooves In Sleeve	248-202
4	202	3.8583	To 157353	202G Gasoline 2520	248-202A
4	202	3.8583	To 156883	JD202D Diesel 2020 2510	248-202B
4	202	3.8583	From 156884	JD202D Diesel 2020 2510	248-202C
4	219	4.0157	From 145530 - 157575	219 Diesel 2520	248-219

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JOHN DEERE continued

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
4	219	4.0157	From 157576	219 Diesel 2520	248-219A
4	219	4.0157	From 211700 - 277615	219 Diesel 4219D, 2030	248-219B
4	219	4.0157	From 277616	219 Diesel 4219DM, 2030	248-219C
4	219	4.0157		Diesel Turbo 4219T, Loader JD450C	248-219D
4	227	4.250	To 122999	4-227 Gasoline 3020 W/ Blocks Marked R26150,R26160	248-227
4	227	4.250	To 122999	Gasoline 4227	248-227A
4	239	4.1929		4239D Diesel 2350,2355,2550,2555 W/Keystone Top Ring	248-239
4	239	4.1929		4239T Diesel 2750,2755,2855,2855N W/Keystone Top Ring	248-239A
4	254	4.125		254 Diesel 3010 W/ Blocks Marked R26160	248-254
4	270	4.250	To 12299	4270 Diesel 3020 W/ Blocks Marked R46350,R46430	248-270
4	270	4.250	To 12299	4270 Diesel 3020 W/ Blocks Marked R46350,R46430	248-270
4	270	4.250	From 123000	270 Diesel 3020	248-270A
4	276	4.1929		4276D Diesel 2630,2640	248-276
4	276	4.1929		4276T Diesel Turbo Loaders JD440C,JD540B, JD555,410C, 440C,444E,510C,540B,610B,610C W/ Pin Dia. 1 5/8"	248-276A
6	217	3.625	To 40000	HA217G Gasoline Model 65	248-217
6	240	4.0157	From 2777550	Diesel 2840 4030	248-240
6	301	4.000		301 Gasoline 4010 (Exc. Blocks # R40930,R40940,R49550)	248-301
6	301	4.000		301 Gasoline 4010 W/ Blocks Marked R40930,R40940,R49550	248-301A
6	303	3.8583		303 / G6303 Gasoline 4030 (Late) W/O Grooves In Sleeve	248-303
6	303	3.8583		303 Gasoline & L.P. (Early) W/ Two Groove In Sleeve	248-303A
6	303	3.8583		JD303D Diesel JD544,JD570 W/ Late Engines With 3-Sealing Rings Comp. Ratio 16.3 To 1	248-303B
6	303	3.8583		JD303D Diesel Power Unit W/ Early 3-Sealing Rings & 2-Ring Grooves On Sleeve C.R. 16.3 to 1	248-303C
6	329	4.0157	To 277549	329D Diesel 4030	248-239
6	329	4.0157	6329D	6329D Diesel 6600 (To Model #210981; From Model# 21322 to 212401)	248-329A
6	341	4.250	To 200999	6341 Gasoline 4000,4020	248-341
6	359	4.1929		6359D Diesel 2940,2950,2955,3150,3155 W/ Keystone Top Ring	248-359
6	359	4.1929	From 6593	Diesel 4050 W/ Keystone Top Ring	248-359A
6	360	4.250	From 201000	Gasoline 4000,4020	248-360
6	381	4.250		381 Diesel 4010 Overbore W/ Blocks Marked R40930,R40940,R49550	248-381
6	404	4.250	To 200999	JD404 Diesel 4000,4020 W/ Blocks Marked R40930	248-404

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JOHN DEERE continued

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
6	404	4.250	To 200999	JD404 Diesel 4000,4020 W/ Blocks Marked 26070,R33180,R34340,R40890,R40900	248-404A
6	404	4.250	From 201000	Diesel 4000,4020,4240,4440	248-404B
6	404	4.250	To 335845	6404T Diesel 4320,4520,4620,7020	248-404C
6	404	4.250	From 335846	6404T,6404A Diesel Turbo 4430,4630,7020	248-404D
6	404	4.250		6404 Diesel 4040,4230	248-404E
6	414	4.1929		6414D Diesel Loader JD544B	248-414
6	466	4.5625		6466D Diesel Naturally Asperated 890,4040,4050,4240, 4250,4440,4450 W/ Keystone Top Ring	248-466
6	466	4.5625	To 231857	6466T/6466A Diesel 4440,4640,4840,8430,8440,8450	248-466A
6	466	4.5625		6466TF Diesel 4250,4450,4650	248-466B
6	466	4.5625		6466AF Diesel 4850	248-466C
6	471	4.1929		6414T Diesel Turbo Loaders JD544B,JD544C,JD640D,JD655,JD755,JD75 5A,544C,544D,624E,640,644E,755	248-471
6	531	4.750		6531D Diesel JD760,5020,6030	248-531
6	531	4.750		6531A Diesel 6030,7520	248-531A
6	531	4.750		6531A Diesel Turbo 7520	248-531B
6	619	5.125	To 033814	6619A Diesel Turbocharged 5020,6540,6545,8630,8640,8650	248-619
6	619	5.125	From 033815 - To 049059	Diesel Turbocharged 5020,6540,6545,8630,8640,8650	248-619A
6	619	5.125	From 049060	Diesel Turbocharged 5020,6540,6545,8630,8650	248-619B
6	619	5.125		6619A Diesel Turbocharged W/ Curved Machined Area Between Cylinder Bore	248-619C

MACK

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
6	672	4.8750 x 6.000		ENDT-673C Diesel w/20 Head Studs	249-672
6	672	4.8750 x 6.000		ENDT-673C Diesel w/18 Head Studs	249-672A
6	672	4.8750 x 6.000	Maxidyne Conversion	ENDT-673C, ENDT-675, ENDT-676 Diesel	249-672B
6	672	4.8750 x 6.000		ET, EM6 Diesels w/17-1 Compression	249-672C
6	672	4.8750 x 6.000		ET, EM6 Diesels w/15-1 Compression	249-672D

MASSEY FERGUSON

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
3	152	3.6015	To 1935854	3A152 Diesel MF35D,MF50D,MF203D,MF205D Engines Built From 1959-77	250-152
3	152	3.6015	From 1935854	Diesel MF35D,MF50D,MF203D,MF205D Engines Built From 1959-77	250-152A
3	152	3.6015		D3152 Diesel MF20,MF35D,MF40D,MF50D, MF135D,MF150D,MF200,MF230D,MF235D,M F245D, MF2135D,MF2244D W/ Direct Injection	250-152B
4	108	3.125		4.108 Diesel MF25,MF130,MF30,MF31,MF33,MF86, MF630 (MF25/130 Engines Built From 1965- 73 All Others From 1961-Up)	250-108
4	120	3.1875		Z120 Gasoline TO20	250-120

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MASSEY FERGUSON continued

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
4	120	3.250		Z120 Gasoline Continental TO20 W/ Overbore Assembly	250-120A
4	129	3.250		Z129 Gasoline (Continental) TO30 W/ Overbore Assembly	250-129
4	134	3.375		Z134 Gasoline (Continental) MF50,MF202,MF204, MF2135D,MF2200,MH50,TO35,TO40 W/ Overbore Assembly	250-134
4	145	3.375		Z145 Gasoline (Continental) MF135,MF150	250-145
4	176	3.655		G176 Gasoline (Continental) MF65,MF164,MF3165 W/ Overbore Assembly	250-176
4	203	3.6015	To 2820093	Diesel MF65D,MF300,MF356D	250-203
4	203	3.6015	From 2820093	Diesel MF65D,MF300,MF356D	250-203A
4	203	3.6015		AD4.203 Diesel MF30,MF30D,MF40B,MF50AD, MF65D,MF165D,MF255D,MF302D,MF304D,M F356D, MF3165D W/Direct Injection	250-203B
4	236	3.877	To 4203049	A4.236 Diesel MF31D,MF175D,MF180D, MF184,MF255D,MF265D,MF470D Engines Built From 1964-81 (Flange Sleeves)	250-236
4	248	3.9785	To 4203049	A4.248 Diesel (Perkins)MF11,MF31,MF33,MF50, MF87,MF95,MF99,MF165,MF168,MF175,MF1 77,MF178,MF180, Engines Built From 1963- Up	250-248
4	248	3.9785	From 4203050	Diesel (Perkins)MF11,MF31,MF33,MF50,MF87,MF9 5, MF99,MF165,MF168,MF175,MF177,MF178,M F180, Engines Built From 1963-Up	250-248A
4	260	3.875	To 75035	H-260 Cont. Gasoline 44, 44G, 44K, 44LP, 44RT	250-260
6	354	3.877	From 8060154 - To 8504189	Diesel (Perkins) 550,MF44B,MF80,MF400,MF450S, MF1100D (Exc. Turbo)	250-354
6	354	3.877	From 8504190	Diesel (Perkins) 550,MF44B,MF80,MF400,MF450S, MF510,MF1100D,MF2675 Exc. Turbo	250-354A
6	354	3.877	From 8504190	Diesel Turbo 750,760,MF750,MF760,MF1105D, MF1130D,MF1135D,MF2675,MF2705 W/ Direct Injection	250-354B
8	540	4.250		V8.540 Diesel MF1155,MF2745,RX100,RX760 Engines Built From 1972-Up (Rings Fitted To Pistons)	250-540

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NAVISTAR

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
6	360	4.0000 x 4.775	to S/N 39374	DT-360 Diesel	260-360
6	466	4.3000 x 5.348	S/N 76440 to 439617	DT-466B Diesel w/3 Ring Piston	260-466
6	466	4.3000 x 5.348	S/N 76440 to 439617	DT-466B Diesel w/4 Ring Piston	260-466A
6	466	4.3000 x 5.348	S/N 440036 to 532980	DT-466C Diesel w/3 Ring Piston	260-466B
6	466	4.3000 x 5.348	S/N 440036 to 532980	DT-466C Diesel w/4 Ring Piston	260-466C
6	466	4.3000 x 5.348	S/N 532981 to 594840	DT-466C Diesel	260-466D
6	466	4.3000 x 5.348	S/N 594841 to 618495	DT-466C Diesel	260-466E

WHITE FARM / Oliver / Minneapolis Moline

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
3	152	3.6015	1829891 - 1935854	Perkins Diesel 3.152	250-152
3	152	3.6015	From 1935854	Perkins Diesel 3.152 Engines Built From 1959-77	250-152A
4	129	3.3125	From 129 - To 6502	Gasoline / Diesel 66D,66HC W/ Cank Pin 2.00"	290-129
4	129	3.3125	From 129 - To 6502	Gasoline / Diesel 77D,77HC W/ Cank Pin 2.250"	290-129A
4	144	3.500	From 6000	Gasoline 55HC	290-144
4	144	3.500	From 6503	Gasoline 66HC	290-144A
4	166	3.500	To 6503	166D Diesel Super 166D & L.P. 66D,66HC,66LP,550D, 660D,660HC,Super 55D,Super 55HC,Super 66D, Super 66HC,Super66LP W/ Overbore To 3 5/8" & 2.250 Crank Pin	290-166
4	166	3.3125		166D Diesel 66D,66HC W/ Overbore To 3 5/8" & 2" Rod Crank Pin	290-166A
4	336	4.625		336 Diesel M5,M670,G705,G706,G707,G708,G1000, G1050	290-336
6	177	3.625	To 6503	177D Diesel / Gasoline /L.P. 177D & Super 177D, 77D,77HC,77LP W/ Overbore 3 5/8" & 2.0" Crank Pin	290-177
6	194	3.3125		194 Gasoline / Diesel 66D,66HC W/ Cank Pin 2.0"	290-194
6	216	3.500	From 6503	Gasoline 77HC	290-216
6	231	3.750	To 6502	231Gasoline & L.P. 88HC,88LP,188HC,188LP W/ Overbore Assembly	290-231
6	231	3.500	From 6503	Gasoline 88HC	290-231A
6	231	3.750	To 6502	231 Diesel 88D,188D W/ Overbore Assembly	290-231B
6	231	3.500	From 6503	Diesel 88D,880D	290-231C
6	265	3.500	From 6503	Diesel 88D,880D	290-264A
6	265	3.500	From 6503	Gasoline 88HC	290-265
6	265	3.750	From 124420	Diesel (Waukesha 190DLB) 1600	290-265B
6	283	3.875	From 187586	Diesel (Waukesha VRD283) 2-70,2-78,4- 78,1650, 1655,G750	290-283
6	310	3.875	From 15041	Gasoline 1850	290-310
6	310	3.875	From 220000	Gasoline 1855	290-310A

JPW Heavy Duty Engine Kit Catalog

WHITE FARM / Oliver / Minneapolis Moline continued

CYL	ENGINE	Bore x Stroke	Serial Number	Application Notes	Kit
6	310	3.875	To 8504189	310 Diesel 310 Non / Turbo 1855,1855T,1950T,1955T W/ MB2226P-40 Is .017" Oversize Length	290-310B
6	310	3.875	To 8504189	310 Diesel (Waukesha VRD310) 1750,1755	290-310C
6	354	3.877	To 8060153	Diesel (Perkins Non-Turbo) 2-85,1850 Engines Built From 1960-64	290-354
6	354	3.877	From 8060154	Diesel (Perkins Non-Turbo) 2-85,1850 Engines Built From 1964-81	290-354A
6	354	3.877	From 8504190	T6.354 Diesel (Perkins-Turbo) 7800	290-354B
6	354	3.877	To 8504189	T6.354 Diesel (Perkins-Turbo) 7800, 2-105	290-354C
6	800	5.3125	From 34900000 - To 34902062	Natural Gas & L.P. HD800-6A 800-A6	290-800

JPW Marine Engine Kit Catalog

Chevrolet Marine

CYL	ENGINE	Application Notes	Bore x Stroke	Kit
4	153 (2.5L)	Std. Rotation (Late Design) To R6229717	3.875 / 3.25	118-153
4	153 (2.5L)	Std. Rotation (Late Design) From 6229718	3.875 / 3.25	118-153A
4	181 (3.0L)	Std Rotation (To R6229717) W/ D-Shape Dish Pistons	4.000 / 0.00	118-181A
4	181 (3.0L)	Std Rotation (From 6229718) W/ D-Shape Dish Pistons	4.000 / 0.00	118-181
6	230 (3.8L)	Std Rotation (Early Design)	3.875 / 3.25	118-230
6	230 (3.8L)	Std Rotation (Late Design)	3.875 / 3.25	118-230A
6	250 (4.1L)	Std Rotation (Early Design)	3.875 / 3.531	118-250
6	250 (4.1L)	Std Rotation (Late Design)	3.875 / 3.531	118-250A
6	262 (4.3L)	Std Rotation W/ 2-Pc Rear Main Seal (Hyd. Cam)	4.000 / 3.484	118-262A
6	262 (4.3L)	Rev. Rotation W/ 2-Pc Rear Main Seal (Hyd. Cam)	4.000 / 3.484	118-262B
6	262 (4.3L)	Std. Rotation (Roller Cam) W/ 2-Pc Rear Main Seal	4.000 / 0.00	118-262C
6	262 (4.3L)	Rev. Rotation (Roller Cam Gear Drive) W/ 2-Pc Rear Main Seal	4.000 / 3.484	118-262D
6	262 (4.3L)	Std Rotation W/ 1-Pc Rear Main Seal (Hyd. Cam)	4.000 / 3.484	118-262E
6	262 (4.3L)	Rev. Rotation (Hyd. Cam / Gear Drive) W/ 1-Pc Rear Main Seal	4.000 / 3.480	118-262F
6	262 (4.3L)	Std. Rotation (Roller Cam) W/ 1-Pc Rear Main Seal	4.000 / 3.484	118-262G
6	262 (4.3L)	Rev. Rotation (Roller Cam/ Gear Drive) W/ 1-Pc Rear Main Seal	4.000 / 3.480	118-262H
8	283 (4.6L)	Std. Rotation Late Design	3.875 / 3.00	118-273B
8	283 (4.6L)	Std. Rotation Early Design	3.875 / 3.00	118-283
8	283 (4.6L)	Rev. Rotation (Gear Drive) Early Design	3.875 / 3.00	118-283A
8	283 (4.6L)	Rev. Rotation (Gear Drive) Late Design	3.875 / 3.00	118-283C
6	292 (4.8L)	Std Rotation (Early Design Cam Brg.)	3.875 / 4.125	118-292
6	292 (4.8L)	Std Rotation (Late Design)	3.875 / 4.125	118-292A
8	305 (5.0L)	Std Rotation 2-Pc Rear Main Seal W/ Flanged Valve Covers	3.736 / 3.484	118-305
8	305 (5.0L)	Rev. Rotation 2-Pc Rear Main Seal W/ Flanged Valve Covers	3.736 / 3.484	118-305A
8	305 (5.0L)	Std Rotation 2-Pc Rear Main Seal W/ Center Bolted Valve Covers	3.736 / 3.484	118-305B
8	305 (5.0L)	Rev. Rotation 2-Pc Rear Main Seal W/ Center Bolted Valve Covers	3.736 / 3.484	118-305C
8	305 (5.0L)	Std Rotation 1-Pc Rear Main Seal W/ Flanged Valve Covers	3.736 / 3.484	118-305D
8	305 (5.0L)	Rev. Rotation 1-Pc Rear Main Seal W/ Flanged Valve Covers	3.736 / 3.484	118-305E
8	305 (5.0L)	Std Rotation 1-Pc Rear Main Seal W/ Center Bolted Valve Covers	3.736 / 3.484	118-305F
8	305 (5.0L)	Rev. Rotation 1-Pc Rear Main Seal W/ Center Bolted Valve Covers	3.736 / 3.484	118-305G
8	307 (5.0L)	Std Rotation	3.875 / 3.25	118-307
8	307 (5.0L)	Rev Rotation	3.875 / 3.25	118-307A
8	327 (5.4L)	Std Rotation W/ Early Style Brgs.	4.000 / 3.25	118-327
8	327 (5.4L)	Rev. Rotation W/ Early Style Brgs.	4.000 / 3.25	118-327A
8	327 (5.4L)	Std Rotation W/ Small Journal Brgs & Late Style Cam Brgs.	4.000 / 3.25	118-327B
8	327 (5.4L)	Std Rotation W/ Small Journal Brgs & Late Style Cam Brgs.	4.000 / 3.25	118-327B
8	327 (5.4L)	Rev. Rotation W/ Small Journal Brgs & Late Style Cam Brgs.	4.000 / 3.25	118-327C
8	327 (5.4L)	Std Rotation W/ Late Style Brgs.	4.000 / 3.25	118-327D
8	327 (5.4L)	Rev. Rotation W/ Late Style Brgs.	4.000 / 3.25	118-327E
8	350 (5.7L)	Std Rotation (Exc. 270 H.P. & Up) W/ 2-Pc Rear Main Seal & Flanged Valve Covers	4.000 / 3.480	118-350
8	350 (5.7L)	Rev. Rotation (Exc. 270 H.P. & Up) W/ 2-Pc Rear Main Seal & Flanged Valve Covers	4.000 / 3.480	118-350A

JPW Marine Engine Kit Catalog

Chevrolet Marine continued

CYL	ENGINE	Application Notes	Bore x Stroke	Kit
8	350 (5.7L)	Std Rotation (Exc. 270 H.P. & Up) W/ 2-Pc Rear Main Seal & Center Bolted Valve Covers	4.000 / 3.480	118-350B
8	350 (5.7L)	Rev. Rotation (Exc. 270 H.P. & Up) W/ 2-Pc Rear Main Seal & Flanged Valve Covers	4.000 / 3.480	118-350C
8	350 (5.7L)	Std Rotation (Exc. 270 H.P. & Up) W/ 1-Pc Rear Main Seal & Flanged Valve Covers	4.000 / 3.480	118-350D
8	350 (5.7L)	Rev. Rotation (Exc. 270 H.P. & Up) W/ 1-Pc Rear Main Seal & Flanged Valve Covers	4.000 / 3.480	118-350E
8	350 (5.7L)	Std Rotation (Exc. 270 H.P. & Up) W/ 1-Pc Rear Main Seal & Center Bolted Valve Covers	4.000 / 3.480	118-350F
8	350 (5.7L)	Rev. Rotation (Exc. 270 H.P. & Up) W/ 1-Pc Rear Main Seal & Center Bolted Valve Covers	4.000 / 3.480	118-350G
8	427 (7.0L)	Std. Rotation Gear Drive	4.25 / 3.766	118-427
8	427 (7.0L)	Rev. Rotation Gear Drive	4.25 / 3.766	118-427A
8	454 (7.4L)	Std Rotation (MCM 330 To S/N 6083145 & MIC 340 To S/N 5889914)	4.25 / 4.00	118-454
8	454 (7.4L)	Rev. Rotation (MCM 330 To S/N 6083145 & MIC 340 To S/N 5889914)	4.25 / 4.00	118-454A
8	454 (7.4L)	1980 Std Rotation	4.25 / 4.00	118-454B
8	454 (7.4L)	1980 Rev. Rotation	4.25 / 4.00	118-454C
8	502 (8.2L)	Std Rotation Generation (IV Only) W/ Dish Pistons Ser.# C878221 - D824588	4.466 / 0.00	118-502

Chris Craft

CYL	ENGINE	Application Notes	Bore x Stroke	Kit
8	283 (4.6L)	Std Rotation (Early Design)	3.875 / 3.00	118-283
8	283 (4.6L)	Rev. Rotation (Gear Drive) Early Design	3.875 / 3.00	118-283A
8	283 (4.6L)	Std Rotation (Late Design)	3.875 / 3.00	118-283B
8	283 (4.6L)	Rev. Rotation (Gear Drive) Late Design	3.875 / 3.00	118-283C
8	307 (5.0L)	Std. Rotation	3.875 / 3.25	118-307
8	307 (5.0L)	Rev. Rotation	3.875 / 3.25	118-307A
8	327 (5.3L)	Std. Rotation (Small Journal / Small Cam Brgs.)	4.000 / 3.25	118-327
8	327 (5.3L)	Rev. Rotation (Small Journal / Small Cam Brgs.)	4.000 / 3.25	118-327A
8	327 (5.3L)	Std. Rotation (Small Journal / Lrg. Cam Brgs.)	4.000 / 3.25	118-327B
8	327 (5.3L)	Rev. Rotation (Small Journal / Lrg. Cam Brgs.)	4.000 / 3.25	118-327C
8	327 (5.3L)	Std. Rotation (Lrg. Journal / Lrg. Cam Brgs.)	4.000 / 3.25	118-327D
8	327 (5.3L)	Std. Rotation (Lrg. Journal / Small Cam Brgs.)	4.000 / 3.25	118-327F
8	350 (5.7L)	Std Rotation (Early Design)	4.000 / 3.480	118-350L
8	350 (5.7L)	Rev. Rotation (Early Design)	4.000 / 3.480	118-350M
8	350 (5.7L)	Std Rotation (Late Design)	4.000 / 3.480	118-350N
8	350 (5.7L)	Rev Rotation (Late Design)	4.000 / 3.480	118-350O
8	350 (5.7L)	Std Rotation (Early Design) Hi-Perf	4.000 / 3.480	118-350P
8	350 (5.7L)	Rev. Rotation (Early Design) Hi-Perf	4.000 / 3.480	118-350Q
8	350 (5.7L)	Std Rotation (Late Design) Hi-Perf	4.000 / 3.480	118-350R
8	350 (5.7L)	Rev Rotation (Late Design) Hi-Perf	4.000 / 3.480	118-350S

Chrysler Marine

CYL	ENGINE	Application Notes	Bore x Stroke	Kit
8	318 (5.2L)	Std. Rotation (Cast Iron Oil Pan) W/ Main Brg Flange Dia. 3.375 & Early Style Cam Brgs.	3.91 / 3.313	122-318
8	318 (5.2L)	Rev. Rotation (Cast Iron Oil Pan) W/ Main Brg Flange Dia. 3.375 & Early Style Cam Brgs.	3.91 / 3.313	122-318A
8	318 (5.2L)	Std Rotation (Cast Iron Oil Pan) W/ Main Brg Flange Dia. 3.530 & Early Cam Brgs.	3.91 / 3.313	122-318B
8	318 (5.2L)	Rev. Rotation (Cast Iron Oil Pan) W/ Main Brg Flange Dia. 3.530 & Early Cam Brgs.	3.91 / 3.313	122-318C

JPW Marine Engine Kit Catalog

Chrysler Marine continued

CYL	ENGINE	Application Notes	Bore x Stroke	Kit
8	318 (5.2L)	Std Rotation (Cast Iron Oil Pan) W/ Main Brg Flange Dia. 3.530 & Late Style Cam Brgs.	3.91 / 3.313	122-318D
8	318 (5.2L)	Rev. Rotation (Cast Iron Oil Pan) W/ Main Brg Flange Dia. 3.530 & Late Style Cam Brgs.	3.91 / 3.313	122-318E
8	318 (5.2L)	Std Rotation (Steel Oil Pan) W/ Main Brg Flange Dia. 3.530 & Early Cam Brgs.	3.91 / 3.313	122-318F
8	318 (5.2L)	Rev. Rotation (Steel Oil Pan) W/ Main Brg Flange Dia. 3.530 & Early Cam Brgs.	3.91 / 3.313	122-318G
8	318 (5.2L)	Std Rotation (Steel Oil Pan) W/ Main Brg Flange Dia. 3.530 & Late Style Cam Brgs.	3.91 / 3.313	122-318H
8	318 (5.2L)	Rev. Rotation (Steel Oil Pan) W/ Main Brg Flange Dia. 3.530 & Late Style Cam Brgs.	3.91 / 3.313	122-318I
8	318 (5.2L)	Std Rotation (Steel Oil Pan) W/ Main Brg Flange Dia. 3.375 & Late Style Cam Brgs.	3.91 / 3.313	122-318J
8	318 (5.2L)	Rev. Rotation (Steel Oil Pan) W/ Main Brg Flange Dia. 3.375 & Late Style Cam Brgs.	3.91 / 3.313	122-318K
8	340 (5.6L)	Std. Rotation (Cast Iron Oil Pan) W/ Offset Weights on Harmonic Balancer	4.04 / 3.313	122-340
8	340 (5.6L)	Std. Rotation (Cast Iron Oil Pan) W/ Offset Weights on Harmonic Balancer	4.04 / 3.313	122-340
8	340 (5.6L)	Rev. Rotation (Cast Iron Oil Pan) W/ Offset Weights on Harmonic Balancer	4.04 / 3.313	122-340A
8	340 (5.6L)	Std. Rotation (Steel Oil Pan) W/ Offset Weights on Harmonic Balancer	4.04 / 3.313	122-340B
8	340 (5.6L)	Rev. Rotation (Steel Oil Pan) W/ Offset Weights on Harmonic Balancer	4.04 / 3.313	122-340C
8	360 (5.9L)	Std Rotation (Cast Iron Oil Pan) W/ Early Style Main & Early Style Cam Brgs.	4.000 / 3.578	122-360
8	360 (5.9L)	Rev Rotation (Cast Iron Oil Pan) W/ Early Style Main & Early Style Cam Brgs.	4.000 / 3.578	122-360A
8	360 (5.9L)	Std Rotation (Cast Iron Oil Pan) W/ Late Style Main & Early Style Cam Brgs.	4.000 / 3.578	122-360B
8	360 (5.9L)	Rev Rotation (Cast Iron Oil Pan) W/ Late Style Main & Early Style Cam Brgs.	4.000 / 3.578	122-360C
8	360 (5.9L)	Std Rotation (Cast Iron Oil Pan) W/ Late Style Main & Late Style Cam Brgs.	4.000 / 3.578	122-360D
8	360 (5.9L)	Rev Rotation (Cast Iron Oil Pan) W/ Late Style Main & Late Style Cam Brgs.	4.000 / 3.578	122-360E
8	360 (5.9L)	Std Rotation (Steel Oil Pan) W/ Early Style Main & Early Style Cam Brgs.	4.000 / 3.578	122-360F
8	360 (5.9L)	Rev Rotation (Steel Oil Pan) W/ Early Style Main & Early Style Cam Brgs.	4.000 / 3.578	122-360G
8	360 (5.9L)	Std Rotation (Steel Oil Pan) W/ Late Style Main & Early Style Cam Brgs.	4.000 / 3.578	122-360H
8	360 (5.9L)	Rev Rotation (Steel Oil Pan) W/ Late Style Main & Early Style Cam Brgs.	4.000 / 3.578	122-360I
8	360 (5.9L)	Std Rotation (Steel Oil Pan) W/ Late Style Main & Late Style Cam Brgs.	4.000 / 3.578	122-360J
8	360 (5.9L)	Rev Rotation (Steel Oil Pan) W/ Late Style Main & Late Style Cam Brgs.	4.000 / 3.578	122-360K
8	383 (6.3L)	Std Rotation	4.25 / 3.375	122-383
8	400 (6.6L)	Std Rotation (Early Style Main Brgs.) W/ 6-Bolt Flywheel & W/O Offset Weights On Dampern	4.342 / 3.375	122-400
8	400 (6.6L)	Std Rotation (Late Style Main Brgs.) W/ 6-Bolt Flywheel & W/O Offset Weights On Dampern	4.342 / 3.375	122-400A
8	413 (6.8L)	Std Rotation (Early Style Engine) W/ 2V To 2168000	4.188 / 3.750	122-413
8	413 (6.8L)	Std Rotation (Early Style Main Brgs.) W/ 6-Bolt Flywheel Flange & W/ Offset Weights On Damper To 2168000	4.188 / 3.750	122-413A

JPW Marine Engine Kit Catalog

Chrysler Marine continued

CYL	ENGINE	Application Notes	Bore x Stroke	Kit
8	413 (6.8L)	Std Rotation (Late Style Main Brgs.) W/ 6-Bolt Flywheel Flange & W/ Offset Weights On Damper To 2168000	4.188 / 3.750	122-413B
8	440 (7.2L)	Std Rotation (Early Style Main Brgs.) W/ 6-Bolt Flywheel Flange & W/ Offset Weights On Dampern	4.32 / 3.750	122-440
8	440 (7.2L)	Std Rotation (Late Style Main Brgs.) W/ Offset Weights On Dampern	4.32 / 3.750	122-440A
8	440 (7.2L)	Std Rotation (Late Style Main Brgs.) W/ 6-Bolt Flywheel Flange & W/ Offset Weights On Dampern	4.32 / 3.750	122-440B

Ford Marine

CYL	ENGINE	Application Notes	Bore x Stroke	Kit
8	289 (4.7L)	Std Rotation	4.000 / 2.87	135-289
8	302 (5.0L)	Std Rotation W/ Flat-Top Pistons	4.000 / 3.00	135-302
8	302 (5.0L)	Rev Rotation W/ Flat-Top Pistons	4.000 / 3.00	135-302A
8	302 (5.0L)	Std Rotation W/ Dish Pistons	4.000 / 3.00	135-302B
8	302 (5.0L)	Rev Rotation W/ Dish Pistons	4.000 / 3.00	135-302C
8	351 (5.7L)	Std Rotation	4.000 / 3.500	135-351
8	351 (5.7L)	Std Rotation W/ Full Groove Mains Brgs.	4.000 / 3.500	135-351A
8	351 (5.7L)	Rev. Rotation (351W Firing Order) W/ Full Groove Mains Brgs.	4.000 / 3.500	135-351B
8	351 (5.7L)	Rev. Rotation (351W Firing Order)	4.000 / 3.500	135-351C

Mercury / Mercruiser Marine

CYL	ENGINE	Application Notes	Bore x Stroke	Kit
4	153 (2.5L)	Std. Rotation (Late Design) To R6229717	3.875 / 3.25	118-153
4	153 (2.5L)	Std. Rotation (Late Design) From 6229718	3.875 / 3.25	118-153A
4	181 (3.0L)	Std Rotation (To R6229717) W/ D-Shape Dish Pistons	4.000 / 0.00	118-181
4	181 (3.0L)	Std Rotation (From 6229718) W/ D-Shape Dish Pistons	4.000 / 0.00	118-181A
6	230 (3.8L)	Std Rotation (Early Design)	3.875 / 3.25	118-230
6	230 (3.8L)	Std Rotation (Late Design)	3.875 / 3.25	118-230A
6	250 (4.1L)	Std Rotation (Early Design)	3.875 / 3.531	118-250
6	250 (4.1L)	Std Rotation (Late Design)	3.875 / 3.531	118-250A
6	262 (4.3L)	Std Rotation W/ 2-Pc Rear Main Seal (Hyd. Cam)	4.000 / 3.484	118-262A
6	262 (4.3L)	Rev. Rotation W/ 2-Pc Rear Main Seal (Hyd. Cam)	4.000 / 3.484	118-262B
6	262 (4.3L)	Std. Rotation (Roller Cam) W/ 2-Pc Rear Main Seal	4.000 / 0.00	118-262C
6	262 (4.3L)	Rev. Rotation (Roller Cam Gear Drive) W/ 2-Pc Rear Main Seal	4.000 / 3.484	118-262D
6	262 (4.3L)	Std Rotation W/ 1-Pc Rear Main Seal (Hyd. Cam)	4.000 / 3.484	118-262E
6	262 (4.3L)	Rev. Rotation (Hyd. Cam / Gear Drive) W/ 1-Pc Rear Main Seal	4.000 / 3.480	118-262F
6	262 (4.3L)	Std. Rotation (Roller Cam) W/ 1-Pc Rear Main Seal	4.000 / 3.484	118-262G
6	262 (4.3L)	Rev. Rotation (Roller Cam/ Gear Drive) W/ 1-Pc Rear Main Seal	4.000 / 3.480	118-262H
8	283 (4.6L)	Std. Rotation (Gear Drive) Early Design	3.875 / 3.00	118-283
8	283 (4.6L)	Rev. Rotation (Gear Drive) Early Design	3.875 / 3.00	118-283A
8	283 (4.6L)	Std. Rotation (Late Design)	3.875 / 3.00	118-283B
8	283 (4.6L)	Rev. Rotation (Gear Drive) Late Design	3.875 / 3.00	118-283C
6	292 (4.8L)	Std Rotation (Early Design Cam Brg.)	3.875 / 4.125	118-292
6	292 (4.8L)	Std Rotation (Late Design)	3.875 / 4.125	118-292A
8	302 (5.0L)	Std Rotation W/ Flat-Top Pistons	4.000 / 3.00	135-302
8	302 (5.0L)	Rev Rotation W/ Flat-Top Pistons	4.000 / 3.00	135-302A

JPW Marine Engine Kit Catalog

Mercruiser / Mercury Marine continued

CYL	ENGINE	Application Notes	Bore x Stroke	Kit
8	302 (5.0L)	Std Rotation W/ Dish Pistons	4.000 / 3.00	135-302B
8	302 (5.0L)	Rev Rotation W/ Dish Pistons	4.000 / 3.00	135-302C
8	305 (5.0L)	Std Rotation 2-Pc Rear Main Seal W/Flanged Valve Covers	3.736 / 3.484	118-305
8	305 (5.0L)	Rev. Rotation 2-Pc Rear Main Seal W/ Flanged Valve Covers	3.736 / 3.484	118-305A
8	305 (5.0L)	Std Rotation 2-Pc Rear Main Seal W/Center Bolted Valve Covers	3.736 / 3.484	118-305B
8	305 (5.0L)	Rev. Rotation 2-Pc Rear Main Seal W/ Center Bolted Valve Covers	3.736 / 3.484	118-305C
8	305 (5.0L)	Std Rotation 1-Pc Rear Main Seal W/ Flanged Valve Covers	3.736 / 3.484	118-305D
8	305 (5.0L)	Rev. Rotation 1-Pc Rear Main Seal W/ Flanged Valve Covers	3.736 / 3.484	118-305E
8	305 (5.0L)	Std Rotation 1-Pc Rear Main Seal W/ Center Bolted Valve Covers	3.736 / 3.484	118-305F
8	305 (5.0L)	Rev. Rotation 1-Pc Rear Main Seal W/ Center Bolted Valve Covers	3.736 / 3.484	118-305G
8	327 (5.4L)	Std Rotation W/ Early Style Brgs.	4.000 / 3.25	118-327
8	327 (5.4L)	Rev. Rotation W/ Early Style Brgs.	4.000 / 3.25	118-327A
8	327 (5.4L)	Std Rotation W/ Small Journal Brgs & Late Style Cam Brgs.	4.000 / 3.25	118-327B
8	327 (5.4L)	Rev. Rotation W/ Small Journal Brgs & Late Style Cam Brgs.	4.000 / 3.25	118-327C
8	327 (5.4L)	Std Rotation W/ Late Style Brgs.	4.000 / 3.25	118-327D
8	327 (5.4L)	Rev. Rotation W/ Late Style Brgs.	4.000 / 3.25	118-327E
8	350 (5.7L)	Std Rotation (Exc. 270 H.P. & Up) W/ 2-Pc Rear Main Seal & Flanged Valve Covers	4.000 / 3.480	118-350
8	350 (5.7L)	Rev. Rotation (Exc. 270 H.P. & Up) W/ 2-Pc Rear Main Seal & Flanged Valve Covers	4.000 / 3.480	118-350A
8	350 (5.7L)	Std Rotation (Exc. 270 H.P. & Up) W/ 2-Pc Rear Main Seal & Center Bolted Valve Covers	4.000 / 3.480	118-350B
8	350 (5.7L)	Std Rotation (Exc. 270 H.P. & Up) W/ 1-Pc Rear Main Seal & Flanged Valve Covers	4.000 / 3.480	118-350D
8	350 (5.7L)	Rev. Rotation (Exc. 270 H.P. & Up) W/ 1-Pc Rear Main Seal & Flanged Valve Covers	4.000 / 3.480	118-350E
8	350 (5.7L)	Std Rotation (Exc. 270 H.P. & Up) W/ 1-Pc Rear Main Seal & Center Bolted Valve Covers	4.000 / 3.480	118-350F
8	350 (5.7L)	Rev. Rotation (Exc. 270 H.P. & Up) W/ 1-Pc Rear Main Seal & Center Bolted Valve Covers	4.000 / 3.480	118-350G
8	350 (5.7L)	Std Rotation 270 H.P. & 290 H.P. W/ 2-Pc Rear Main Seal & Center Bolted Valve Covers	4.000 / 3.480	118-350H
8	350 (5.7L)	Rev. Rotation 270 H.P. & 290 H.P. W/ 2-Pc Rear Main Seal & Center Bolted Valve Covers	4.000 / 3.480	118-350I
8	350 (5.7L)	Std Rotation 270 H.P. & 290 H.P. W/ 1-Pc Rear Main Seal & Center Bolted Valve Covers	4.000 / 3.480	118-350J
8	350 (5.7L)	Rev. Rotation 270 H.P. & 290 H.P. W/ 1-Pc Rear Main Seal & Center Bolted Valve Covers	4.000 / 3.480	118-350K
8	351 (5.7L)	Std Rotation	4.000 / 3.500	135-351
8	351 (5.7L)	Std Rotation W/ Full Groove Mains Brgs.	4.000 / 3.500	135-351A
8	351 (5.7L)	Rev. Rotation (351W Firing Order) W/ Full Groove Mains Brgs.	4.000 / 3.500	135-351B
8	351 (5.7L)	Rev. Rotation (351W Firing Order)	4.000 / 3.500	135-351C
8	427 (7.0L)	Std. Rotation Gear Drive	4.25 / 3.766	118-427
8	427 (7.0L)	Rev. Rotation Gear Drive	4.25 / 3.766	118-427A
8	454 (7.4L)	Std Rotation (MCM 330 To S/N 6083145 & MIC 340 To S/N 5889914)	4.25 / 4.00	118-454

JPW Marine Engine Kit Catalog

Mercruiser / Mercury Marine continued

CYL	ENGINE	Application Notes	Bore x Stroke	Kit
8	454 (7.4L)	Rev. Rotation (MCM 330 To S/N 6083145 & MIC 340 To S/N 5889914)	4.25 / 4.00	118-454A
8	454 (7.4L)	1980 Std Rotation	4.25 / 4.00	118-454B
8	454 (7.4L)	1980 Rev. Rotation	4.25 / 4.00	118-454C
8	502 (8.2L)	Std Rotation Generation (IV Only) W/ Dish Pistons Ser.# C878221 - D824588	4.466 / 0.00	118-502

OMC Marine

CYL	ENGINE	Application Notes	Bore x Stroke	Kit
8	307 (5.0L)	Std Rotation	3.875 / 3.25	118-307
8	307 (5.0L)	Rev Rotation	3.875 / 3.25	118-307A

JPW FORKLIFT Engine Kits

Allis Chalmers

CYL	ENGINE	Application Notes	Bore	Kit
4	153	G153 Gasoline W/ Bolt on Flywheel W/ 3 Main Brg. Set	3.437	303-153
4	153	G153 Gasoline W/ Press on Flywheel Housing / □W/ 3 Main Brg. Set	3.437	303-153A
4	153	G153 Gasoline W/ Bolt on Flywheel & W/ 5 Main Brg. □Set	3.437	303-153B
4	153	G153 Gasoline W/ Press on Flywheel Houseing / □W/ 5 Main Brg. Set	3.437	303-153C
4	175	D175 Diesel FD30,FD50,FP30,FP50 □W/ Bolt-On Flywheel Housing & W/ 3 Main Brg. Set	3.562	303-175
4	175	D175 Diesel FD30,FD50,FP30,FP50 □W/ Press-On Flywheel Housing & W/ 3 Main Brg. Set	3.562	303-175
4	175	D175 Diesel FD30,FD50,FP30,FP50 □W/Bolt-On Flywheel Housing & W/ 5 Main Brg. Set	3.562	303-175B
4	175	D175 Diesel FD30,FD50,FP30,FP50 □W/Press-On Flywheel Housing & W/ 5 Main Brg. Set	3.562	303-175C
4	230	G230 Gasoline F60,F70,F80,F100,F120,FD60, □FD70,FD80,FD100,FD120,FP60,FP70,FP80	3.437	303-230
6	262	D262 Diesel FL60,FL70,FL80,FL120 □W/Bolt-On Flywheel Housing	3.562	303-262
6	262	D262 Diesel FL60,FL70,FL80,FL120 □ □W/ Press-On Flywheel Housing	3.562	303-262A

Case

CYL	ENGINE	Application Notes	Bore	Kit
4	188	G188D Diesel 585D,586D	3.8125	315-188
4	207	G207D Diesel 584C,585C,586C	4.000	315-207

Chrysler

CYL	ENGINE	Application Notes	Bore	Kit
6	225	225 Gasoline H170,H225,HA225,HB225 □W/ Cast Crank	3.400	322-225
6	225	225 Gasoline H170,H225,HA225,HB225 □W/ Forged Crank	3.400	322-225A

Continental

CYL	ENGINE	Application Notes	Bore	Kit
4	112	Y112 Gasoline Clark C	3.1875	341-112
4	163	F163 Gasoline W/ 48 Tooth Cam □O.E. Oil Pump # F600I4135 & F600I4138	3.4375	341-163
4	163	F163 Gasoline W/ 56 Tooth Cam □O.E. Oil Pump # F600I4135 & F600I4138	3.4375	341-163A
6	227	F227 Gasoline W/ 34 Tooth Cam □(Check Oil Pump For Correct App.)	3.3125	341-227
6	227	F227 Gasoline W/ 48 Tooth Cam □(Check Oil Pump For Correct App.)	3.3125	341-227A
6	227	F227 Gasoline W/ 56 Tooth Cam □(Check Oil Pump For Correct App.)	3.3125	341-227B
6	227	F227 Gasoline W/ Engin Spec. 56 Tooth Cam □(Check Oil Pump For Correct App.)	3.3125	341-227C
6	245	F245 Gasoline	3.4375	341-245

Detroit Diesel

CYL	ENGINE	Application Notes	Bore	Kit
4	212	4-53N Diesel (Early) W/ .421 Shallow Bowl Piston	3.875	353-212
4	212	4-53N Diesel (Late) W/ .648 Deep Bowl Piston	3.875	353-212A
4	284	4-71N Diesel 284 W/ Truck Style Piston	4.250	353-284
4	284	4-71N Diesel 284 W/ Crosshead Style Piston	4.250	353-284A

Ford Industrial

CYL	ENGINE	Application Notes	Bore	Kit
4	98	1.6L Ford Industrial Engine	3.189	337-098
4	172	172 Gasoline & L.P. Non Sleeved Engine	3.900	337-172
4	172	172 Gasoline & L.P. To 151245	3.900	337-172A
4	172	172 Diesel Non Sleeved Engine	3.900	337-172B
4	172	172 Diesel To 153009	3.900	337-172C

Mitsubishi

CYL	ENGINE	Application Notes	Bore	Kit
4	1995cc	Gasoline 1973 - 1978	3.307	358-122
4	1995cc	Gasoline 1978 & Up	3.307	358-122A
4	2555cc	4G54 Gasoline	3.587	358-153

JPW FORKLIFT Engine Kits

Nissan

CYL	ENGINE	Application Notes	Bore	Kit
4	1982cc	H20 Gasoline W/ Flat-Top Piston	3.433	359-121
4	1982cc	H20 Gasoline W/ Dish Piston	3.433	359-121A
4	2164cc	SD22 Diesel Sleeved Engines	3.267	359-132
6	3246cc	SD33 Diesel Non Sleeved Engine	3.267	359-198
6	3246cc	SD33 Diesel Sleeved Engine	3.267	359-198A

Perkins

CYL	ENGINE	Application Notes	Bore	Kit
4	108	4-108 Diesel	3.125	372-108
3	152	D3-152 Diesel W Direct Injection	3.6015	372-152
3	152	3.152 Diesel 1959 - 1977 From 193585	3.6015	372-152A
4	203	4-203 Diesel From 2820093 From 2820093	3.6015	372-203
4	203	4-203 Diesel To 2820093	3.6015	372-203A
4	203	D4-203 Diesel W/ Direct Injection	3.6015	372-203B
4	236	4-236 Diesel	3.877	372-236
4	248	4-248 Diesel	3.978	372-248
6	354	6-354 Diesel	3.877	372-354

Toyota

CYL	ENGINE	Application Notes	Bore	Kit
4	1490cc	2R Gasoline	3.070	378-091
4	1994cc	5R Gasoline W/ Thrust Washer On Mains To 1747464	3.460	378-121
4	1994cc	5R Gasoline W/ Thrust Washer On Mains From 1747464	3.460	378-121A
4	1994cc	5R Gasoline W/ Flanged Mains From 1747464	3.460	378-121B
6	3878cc	F Gasoline Early 1969 - 1972 To 5000001972	3.540	378-237
6	3878cc	F Gasoline Late 1972 - 1974 From 5000001974	3.540	378-237A
6	4230cc	2F Gasoline Early	3.700	378-258
6	4230cc	2F Gasoline Late	3.700	378-258A

Waukesha

CYL	ENGINE	Application Notes	Bore	Kit
4	155	D155G Gasoline	3.625	388-155
4	176	D176G Gasoline	3.625	388-176

JPW Rotating Assemblies

Chevrolet Small Block

Engine Family	ENGINE Displacement / Configuratio	Type	Application Notes	Kit
Small Block Chev	(355) 4.030" bore x 3.480" stroke x 5.7" rod	Budget Assembly	Flat top hyper piston, 5/64" ring, 2pc seal	818-350
Small Block Chev	(355) 4.030" bore x 3.480" stroke x 5.7" rod	Budget Assembly	D-cup hyper piston, 5/64" ring, 2pc seal	818-350I
Small Block Chev	(355) 4.030" bore x 3.480" stroke x 5.7" rod	Sportsman Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-350A
Small Block Chev	(355) 4.030" bore x 3.480" stroke x 5.7" rod	Competition Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-350B
Small Block Chev	(355) 4.030" bore x 3.480" stroke x 5.7" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal	818-350F
Small Block Chev	(355) 4.030" bore x 3.480" stroke x 6.0" rod	Budget Assembly	Flat top hyper piston, 5/64" ring, 2pc seal, coated skirt	818-350D
Small Block Chev	(355) 4.030" bore x 3.480" stroke x 6.0" rod	Sportsman Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-350C
Small Block Chev	(355) 4.030" bore x 3.480" stroke x 6.0" rod	Competition Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-350E
Small Block Chev	(355) 4.030" bore x 3.480" stroke x 6.0" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal	818-350G
Small Block Chev	(355) 4.030" bore x 3.480" stroke x 6.0" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal	818-350H
Small Block Chev	(355) 4.030" bore x 3.480" stroke x 6.0" rod	Featherweight Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-355LW-2
Small Block Chev	(357) 4.030" bore x 3.500" stroke x 6.0" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal	818-350NT
Small Block Chev	(357) 4.030" bore x 3.500" stroke x 6.0" rod	Competition Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-357
Small Block Chev	(357) 4.030" bore x 3.500" stroke x 6.0" rod	Featherweight Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-355LW
Small Block Chev	(361) 4.030" bore x 3.562" stroke x 6.0" rod	Competition Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-361
Small Block Chev	(361) 4.030" bore x 3.562" stroke x 6.0" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal	818-363
Small Block Chev	(370) 4.060" bore x 3.652" stroke x 6.0" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal	818-370
Small Block Chev	(377) 4.155" bore x 3.480" stroke x 5.7" rod	Budget Assembly	Flat top hyper piston, 5/64" ring, 2pc seal, coated skirt, bearing spacers	818-377
Small Block Chev	(377) 4.155" bore x 3.480" stroke x 5.7" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal	818-377B
Small Block Chev	(377) 4.155" bore x 3.480" stroke x 5.7" rod	Competition Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-377C
Small Block Chev	(377) 4.155" bore x 3.480" stroke x 6.0" rod	Budget Assembly	Flat top hyper piston, 5/64" ring, 2pc seal, bearing spacers	818-377A
Small Block Chev	(377) 4.155" bore x 3.480" stroke x 6.0" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal	818-377D
Small Block Chev	(377) 4.155" bore x 3.480" stroke x 6.0" rod	Competition Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-377E
Small Block Chev	(377) 4.155" bore x 3.480" stroke x 6.0" rod	Featherweight Assembly	Flat top forged piston, 1/16" ring, 2pc seal, bearing spacers	818-377LW
Small Block Chev	(383) 4.030" bore x 3.750" stroke x 5.7" rod	Budget Assembly	Dish hyper piston, 5/64" ring, 2pc seal, coated skirt	818-383

JPW Rotating Assemblies

Chevrolet Small Block - continued

Engine Family	ENGINE Displacement / Configuratio	Type	Application Notes	Kit
Small Block Chev	(383) 4.030" bore x 3.750" stroke x 5.7" rod	Budget Assembly	Flat top hyper piston, 5/64" ring, 2pc seal, coated skirt	818-383N
Small Block Chev	(383) 4.030" bore x 3.750" stroke x 5.7" rod	Budget Assembly	Dish hyper piston, 5/64" ring, 1pc.seal	818-383J
Small Block Chev	(383) 4.030" bore x 3.750" stroke x 5.7" rod	Sportsman Assembly	Dish forged piston, 1/16" ring, 2pc seal	818-383D
Small Block Chev	(383) 4.030" bore x 3.750" stroke x 5.7" rod	Competition Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-383B
Small Block Chev	(383) 4.030" bore x 3.750" stroke x 5.7" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal	818-383H
Small Block Chev	(383) 4.030" bore x 3.750" stroke x 6.0" rod	Budget Assembly	Flat top hyper piston, 1/16" ring, 2pc seal, coated skirt	818-383G
Small Block Chev	(383) 4.030" bore x 3.750" stroke x 6.0" rod	Budget Assembly	D-cup hyper piston, 1/16" ring, 2pc seal	818-383I
Small Block Chev	(383) 4.030" bore x 3.750" stroke x 6.0" rod	Sportsman Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-383A
Small Block Chev	(383) 4.030" bore x 3.750" stroke x 6.0" rod	Competition Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-383E
Small Block Chev	(383) 4.030" bore x 3.750" stroke x 6.0" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal	818-383F
Small Block Chev	(383) 4.030" bore x 3.750" stroke x 6.0" rod	Competition Assembly	Dish forged piston, 1/16" ring, 2pc seal	818-383M
Small Block Chev	(406) 4.155" bore x 3.750" stroke x 5.7" rod	Budget Assembly	Flat top hyper piston, 5/64" ring, 2pc seal	818-406
Small Block Chev	(406) 4.155" bore x 3.750" stroke x 5.7" rod	Budget Assembly	Flat top hyper piston, 5/64" ring, 2pc seal, coated skirt	818-406K
Small Block Chev	(406) 4.155" bore x 3.750" stroke x 5.7" rod	Budget Assembly	Dish hyper piston, 5/64" ring, 2pc seal	818-406C
Small Block Chev	(406) 4.155" bore x 3.750" stroke x 5.7" rod	Sportsman Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-406A
Small Block Chev	(406) 4.155" bore x 3.750" stroke x 5.7" rod	Sportsman Assembly	Dish forged piston, 1/16" ring, 2pc seal	818-406D
Small Block Chev	(406) 4.155" bore x 3.750" stroke x 5.7" rod	Competition Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-406B
Small Block Chev	(406) 4.155" bore x 3.750" stroke x 5.7" rod	Competition Assembly	Dish forged piston, 1/16" ring, 2pc seal	818-406E
Small Block Chev	(406) 4.155" bore x 3.750" stroke x 6.0" rod	Budget Assembly	Flat top hyper piston, 1/16" ring, 2pc seal	818-406H
Small Block Chev	(406) 4.155" bore x 3.750" stroke x 6.0" rod	Budget Assembly	D-cup hyper piston, 1/16" ring, 2pc seal	818-406J
Small Block Chev	(406) 4.155" bore x 3.750" stroke x 6.0" rod	Sportsman Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-406F
Small Block Chev	(406) 4.155" bore x 3.750" stroke x 6.0" rod	Competition Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-406G
Small Block Chev	(406) 4.155" bore x 3.750" stroke x 6.0" rod	Featherweight Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-406LW
Small Block Chev	(421) 4.155" bore x 3.875" stroke x 6.0" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal	818-421
Small Block Chev	(421) 4.155" bore x 3.875" stroke x 6.0" rod	Competition Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-421A
Small Block Chev	(434) 4.155" bore x 4.000" stroke x 6.0" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal	818-434
Small Block Chev	(434) 4.155" bore x 4.000" stroke x 6.0" rod	Competition Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-434A

JPW Rotating Assemblies

Chevrolet Big Block

Engine Family	ENGINE Displacement / Configuration	Type	Application Notes	Kit
Big Block Chev	(454) 4.250" bore x 4.000" stroke x 6.135" rod	Budget Assembly	Dome hyper piston, 5/64" ring, 2pc seal	818-454
Big Block Chev	(460) 4.280" bore x 4.000" stroke x 6.135" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal	818-460
Big Block Chev	(460) 4.280" bore x 4.000" stroke x 6.135" rod	Competition Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-460A
Big Block Chev	(489) 4.280" bore x 4.250" stroke x 6.385" rod	Budget Assembly	Flat top hyper piston, 1/16" ring, 2pc seal	818-489B
Big Block Chev	(489) 4.280" bore x 4.250" stroke x 6.385" rod	Sportsman Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-489
Big Block Chev	(489) 4.280" bore x 4.250" stroke x 6.385" rod	Competition Assembly	10.25cr forged piston, 1/16" ring, 2pc seal	818-489A
Big Block Chev	(489) 4.280" bore x 4.250" stroke x 6.385" rod	Competition Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-489C
Big Block Chev	(489) 4.280" bore x 4.250" stroke x 6.385" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal	818-489D
Big Block Chev	(489) 4.280" bore x 4.250" stroke x 6.8" rod	Competition Assembly	10.25cr forged piston, 1/16" ring, 2pc seal	818-489E
Big Block Chev	(509) 4.500" bore x 4.000" stroke x 6.135" rod	Competition Assembly	10.25cr forged piston, 1/16" ring, 2pc seal	818-509
Big Block Chev	(509) 4.500" bore x 4.000" stroke x 6.385" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal	818-509A
Big Block Chev	(540) 4.500" bore x 4.250" stroke x 6.385" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal	818-540
Big Block Chev	(540) 4.500" bore x 4.250" stroke x 6.385" rod	Competition Assembly	Flat top forged piston, 1/16" ring, 2pc seal	818-540A
Big Block Chev	(555) 4.560" bore x 4.250" stroke x 6.385" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal	818-555
Big Block Chev	(565) 4.600" bore x 4.250" stroke x 6.385" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal	818-565
Big Block Chev	(572) 4.500" bore x 4.500" stroke x 6.7" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal, tall deck block	818-572A
Big Block Chev	(572) 4.500" bore x 4.500" stroke x 6.8" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal, tall deck block	818-572
Big Block Chev	(598) 4.600" bore x 4.500" stroke x 6.8" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal, tall deck block	818-598
Big Block Chev	(604) 4.500" bore x 4.750" stroke x 6.7" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal, tall deck block	818-604
Big Block Chev	(632) 4.600" bore x 4.750" stroke x 6.7" rod	Competition Assembly	Dome forged piston, 1/16" ring, 2pc seal, tall deck block	818-632

Chrysler Small Block

Engine Family	ENGINE Displacement / Configuration	Type	Application Notes	Kit
Small Block Chrysler	(408) 4.030" bore x 4.000" stroke x 6.125" rod	Competition Assembly	Flat top forged piston, 1/16" ring, bearing spacers	822-408A
Small Block Chrysler	(416) 4.070" bore x 4.000" stroke x 6.125" rod	Competition Assembly	Flat top forged piston, 1/16" ring,	822-416

JPW Rotating Assemblies

Chrysler Big Block

Engine Family	ENGINE Displacement / Configuratio	Type	Application Notes	Kit
Big Block Chrysler	(494) 4.350" bore x 4.150" stroke x 6.76" rod	Sportsman Assembly	Flat top forged piston, 1/16" ring,	822-494A
Big Block Chrysler	(494) 4.350" bore x 4.150" stroke x 6.76" rod	Competition Assembly	Flat top forged piston, 1/16" ring,	822-494

Ford Small Block

Engine Family	ENGINE Displacement / Configuratio	Type	Application Notes	Kit
Small Block Ford	(331) 4.030" bore x 3.250" stroke x 5.4" rod	Budget Assembly	D-cup hyper piston, 1/16" ring,	835-331A
Small Block Ford	(331) 4.030" bore x 3.250" stroke x 5.4" rod	Competition Assembly	Flat top forged piston, 1/16" ring,	835-331B
Small Block Ford	(331) 4.030" bore x 3.250" stroke x 5.4" rod	Competition Assembly	Dish forged piston, 1/16" ring,	835-331C
Small Block Ford	(347) 4.030" bore x 3.400" stroke x 5.4" rod	Budget Assembly	Flat top hyper piston, 1/16" ring, , coated skirt	835-347
Small Block Ford	(347) 4.030" bore x 3.400" stroke x 5.4" rod	Sportsman Assembly	Flat top forged piston, 1/16" ring,	835-347C
Small Block Ford	(347) 4.030" bore x 3.400" stroke x 5.4" rod	Competition Assembly	Flat top forged piston, 1/16" ring,	835-347A
Small Block Ford	(347) 4.030" bore x 3.400" stroke x 5.4" rod	Competition Assembly	Dish forged piston, 1/16" ring,	835-347B
Small Block Ford	(383) 4.030" bore x 3.750" stroke x 5.956" rod	Competition Assembly	Flat top forged piston, 1/16" ring,	835-383
Small Block Ford	(393) 4.030" bore x 3.850" stroke x 5.956" rod	Budget Assembly	Dish hyper piston, 1/16" ring, , coated skirt	835-393
Small Block Ford	(393) 4.030" bore x 3.850" stroke x 5.956" rod	Competition Assembly	Flat top forged piston, 1/16" ring,	835-393A
Small Block Ford	(408) 4.030" bore x 4.000" stroke x 6.2" rod	Budget Assembly	D-cup hyper piston, 1/16" ring,	835-408
Small Block Ford	(408) 4.030" bore x 4.000" stroke x 6.2" rod	Budget Assembly	Flat top hyper piston, 1/16" ring,	835-408A
Small Block Ford	(408) 4.030" bore x 4.000" stroke x 6.250" rod	Competition Assembly	Flat top forged piston, 1/16" ring,	835-408B
Small Block Ford	(418) 4.030" bore x 4.100" stroke x 6.2" rod	Competition Assembly	Flat top forged piston, 1/16" ring,	835-418
Small Block Ford	(438) 4.125" bore x 4.100" stroke x 6.2" rod	Competition Assembly	Flat top forged piston, 1/16" ring,	835-438
Small Block Ford	(454) 4.125" bore x 4.250" stroke x 6.2" rod	Competition Assembly	Flat top forged piston, 1/16" ring,	835-454

Ford Big Block

Engine Family	ENGINE Displacement / Configuratio	Type	Application Notes	Kit
Big Block Ford	(460) 4.360" bore x 3.850" stroke x 6.605" rod	Budget Assembly	Flat top hyper piston, 5/64" ring, , coated skirt	835-460
Big Block Ford	(512) 4.440" bore x 4.140" stroke x 6.7" rod	Budget Assembly	D-cup hyper piston, 5/64" ring,	835-512
Big Block Ford	(521) 4.390" bore x 4.300" stroke x 6.8" rod	Sportsman Assembly	Flat top forged piston, 1/16" ring, , nodular crank	835-521
Big Block Ford	(532) 4.440" bore x 4.300" stroke x 6.8" rod	Sportsman Assembly	Flat top forged piston, 1/16" ring, , nodular crank	835-532
Big Block Ford	(545) 4.390" bore x 4.500" stroke x 6.8" rod	Sportsman Assembly	Flat top forged piston, 1/16" ring, , nodular crank	835-545
Big Block Ford	(557) 4.440" bore x 4.500" stroke x 6.8" rod	Sportsman Assembly	Flat top forged piston, 1/16" ring, , nodular crank	835-557