

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
4 Cylinder 2.5 (150) (OHV)	1983-00	1	6 Cylinder 3.8 (232) (OHV)	1964-83	3	V8 4.7 (285) (SOHC)	1999-01	6
V6 3.7 (226) (SOHC)	2002-05	2	4.0 (242) (OHV)	1987-01	4	5.2 (318) (OHV)	1993-99	7
			4.2 (258) (OHV)	1971-90	5	5.9 (360) (OHV)	1970-93	8

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
----------	------------	----------------	--------------	-------------

1	2.5 - (150) 1983-00 (OHV) - 4 Cylinder 3.875" Bore			
	Cast Piston Ring	665	599 22 N0	1983-1995 Exc. Shallow oil ring groove (.030,.040,.060)
	Moly Piston Ring	2M665	599 23 N0	1983-1995 Exc. Shallow oil ring groove (.020,.030,.040,.060)
	Rod Bearing	BB592J	513 PS 18876	1983-1999 Same as BB612J & BB632J except BB592J is a pack (Std, 010, 020, 030)
	Main Bearing	BC413J BC499J	513 HS 19021 513 HS 19023	1983-1990 (Std, 010, 020, 030) 1991-1999 (Std, 010, 020, 030)
	Cam Bearing	N-7	513 BS 19551	(Std.)
2	3.7 -K (226) 2002-05 (SOHC) - V6 3.66 Bore			
	Moly Piston Ring	2M4636	513 71 N0	(Std.,.020,.030,.040,.060)
	Piston	513420	5134200030203	(Std., .10, .50, .75, 1.00mm)

Piston Specifications

Part No.	513420		513420
Casting No.	93L27		
Clearance	0.0017 in. @ 0.255 in. from the bottom		
Compression Dist.	31.79mm/1.252in		
Head Type	Flat		
Notes	Flat Top		
Oversize Available	Std., .50, .75, 1.00mm		
Pin Size - mm (in)	24.000x58.0 (.9449x2.283)		
Ring Size (mm)	2@1.5, 1@3.0		
Std. Cyl. Diameter	93.010 (3.662)		

3	3.8 - (232) 1964-83 (OHV) - 6 Cylinder 3.750" Bore			
	Cast Piston Ring	656	513 87 N0	1966-1983 (.020,.030,.040,.060)
	Moly Piston Ring	2M656	513 52 N0	1966-1983 (.020,.030,.040,.060)
	Rod Bearing	BB612J	342 PS 18835	1964-1979 (Std, 010, 020, 030, 040)
	Main Bearing	BC315J	342 HS 18839	1964-1979 (Std, 010, 020, 030)
	Cam Bearing	N-7	513 BS 19551	1964-1979 (Std.)

4	4.0 -S (242) 1987-01 (OHV) - 6 Cylinder 3.875" Bore			
	Cast Piston Ring	667	513 53 N0	1987-1995 (Std.,.020,.030,.040)
	Moly Piston Ring	2M667	513 54 N0	1987-1995 (.020,.030,.040,.060)
	Rod Bearing	BB612J	342 PS 18835	1987-2000 Same as BB592J & BB632J except BB612J is a pack (Std, 010, 020, 030, 040)
	Main Bearing	BC315J BC468J	342 HS 18839 513 HS 19022	1987-1990 (Std, 010, 020, 030) 1991-2000 (Std, 010, 020, 030)
	Cam Bearing	N-7	513 BS 19551	1987-1999 (Std.)
	Piston	513440	513440	1996-2001 (Std., .50, .75, 1.00mm)

Piston Specifications

Piston Specifications			513440
Part No.	513440		
Casting No.	98L58		
Clearance	*		
Compression Dist.	*		
Head Type	*		
Notes	Check For Availability		
Oversize Available	Std., .50, .75, 1.00mm		
Pin Size - mm (in)	*		
Ring Size (mm)	*		
Std. Cyl. Diameter	98.4 (3.875)		

5	4.2 - (258) 1971-90 (OHV) - 6 Cylinder 3.750" Bore			
	Cast Piston Ring	656	513 87 N0	(.020,.030,.040,.060)
	Moly Piston Ring	2M656	513 52 N0	(.020,.030,.040,.060)
	Rod Bearing	BB612J	342 PS 18835	Same as BB592J & BB632J except BB612J is a 6 pack (Std, 010, 020, 030, 040)
	<i>Continued On Next Page</i>			

AMC/Jeep (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
5	4.2 - (258) 1971-90 (OHV) - 6 Cylinder 3.750" Bore (Continued)			
	Main Bearing	BC315J	342 HS 18839	(Std, 010, 020, 030)
	Cam Bearing	N-7	513 BS 19551	(Std.)
6	4.7 -N (285) 1999-01 (SOHC) - V8 93mm Bore			
	Moly Piston Ring	2M4790	513 42 N0	Std.,.020,.030,.040
	Main Bearing	BC7352J	900 HS 19710	(Std, 010, 020)
	Piston	513420	5134200030203	Exc. H.O. (Std., .10, .50, .75, 1.00mm)

Piston Specifications

Part No.	513420		513420
Casting No.	93L27		
Clearance	0.0017 in. @ 0.255 in. from the bottom		
Compression Dist.	31.79mm/1.252in		
Head Type	Flat		
Notes	Flat Top		
Oversize Available	Std., .50, .75, 1.00mm		
Pin Size - mm (in)	24.000x58.0 (.9449x2.283)		
Ring Size (mm)	2@1.5, 1@3.0		
Std. Cyl. Diameter	93.010 (3.662)		

7	5.2 - (318) 1993-99 (OHV) - V8 3.910" Bore			
	Cast Piston Ring	4735	513 55 N0	1993-1998 (.020,.030,.040)
	Moly Piston Ring	2M4735	513 56 N0	1993-1998 (.020,.030,.040)
	Rod Bearing	BB136J	513 PS 18874	(Std, 010, 020, 030)
	Main Bearing	BC320J	513 HS 18884	(Std, 010, 020)
	Cam Bearing	PD-25	019 BS 19553	1993-1998 (Std.)
8	5.9 - (360) 1970-93 (OHV) - V8 4.080" Bore			
	Cast Piston Ring	693	513 57 N0	(.020,.030,.040,.060)
	Moly Piston Ring	2M693	513 58 N0	(Std.,.020,.030,.040,.060)
	Rod Bearing	BB632J	342 PS 18837	Same as BB592J & BB612J except BB632J is a 8 pack (Std, 010, 020, 030)
	Cam Bearing	N-9	513 NB 19600	(Std.)

Chrysler (Includes Light Trucks)

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
4 Cylinder			4 Cylinder			V6 (Continued)		
1.8 (107) 4G37 (SOHC)	1989-94	1	2.5 (153) (SOHC)	1986-95	12	3.8 (232) (OHV)	1991-00	22
2.0 (122) (DOHC)	1994-00	2	2.6 (156) G54B (SOHC)	1978-89	13	3.9 (238) (OHV)	1987-00	23
2.0 (122) 4G63 (DOHC)	1990-92	3	V6			V8		
2.0 (122) G63B, 4G63 (SOHC)	1983-92	4	2.7 (166) (DOHC)	1998-01	14	4.5 (273) (OHV)	1964-69	24
2.0 (122) (SOHC)	1995-99	5	3.0 (181) 6G72 (SOHC)	1987-00	15	4.7 (285) (SOHC)	1999-01	25
2.2 (135) (DOHC)	1989-93	6	3.0 (181) 6G72 (DOHC)	1992-97	16	5.2 (318) (OHV)	1958-99	26
2.2 (135) (SOHC)	1981-94	7	3.2 (195) (SOHC)	1998-01	17	5.9 (360) (OHV)	1971-02	27
2.4 (144) 4G64 (SOHC)	1992	8	3.3 (201) (OHV)	1990-97	18	V10		
2.4 (148) (DOHC)	1995-01	9	3.5 (215) (SOHC)	1993-01	19	8.0 (488) (OHV)	1994-01	28
2.5 (150) (OHV)	2001-02	10	6 Cylinder					
V6			3.7 (225) (OHV)	1976-87	20			
2.5 (152) 6G73 (SOHC)	1995-00	11	V6					
			3.7 (226) (SOHC)	2002-03	21			

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
1	1.8 - (107) 1989-94 (SOHC) 4G37 - 4 Cylinder 80.60mm Bore			
	Cast Piston Ring	4367	513 62 N0	(.020,.030)
	Chrome Piston Ring	2C4367	513 59 N0	(.020,.030,.040)
	Rod Bearing	BB1085J	513 PS 19615	(Std.,.010,.020)
	Main Bearing	BC1821J	513 HS 19614	.25/.50 sets have +0.15mm flange width (Std, 010, 020, 030)
	Piston	513590	513590	(Std., .50, .75, 1.00mm)

Chrysler (Includes Light Trucks) (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
1	1.8 - (107) 1989-94 (SOHC) 4G37 - 4 Cylinder 80.60mm Bore (Continued)			
Piston Specifications				
Part No.	513590			
Casting No.	83L29			
Clearance	0.0014 in. @ 0.236 in. from the bottom			
Compression Dist.	32.86mm/1.294in			
Head Type	+.063in			
Notes	Domed			
Oversize Available	Std., .50, .75, 1.00mm			
Pin Size - mm (in)	21.000x75.0 (.827x2.953)			
Ring Size (mm)	2@1.5, 1@4.0			
Std. Cyl. Diameter	80.60 (3.173)	513590		
2	2.0 -Y (122) 1994-00 (DOHC) - 4 Cylinder 87.50mm Bore			
	Chrome Piston Ring	2C4759	513 65 N0	(.020,.030,.040,.060)
	Piston	513110	5131100050203	Domed W/4 valve reliefs (Std, .50, .75, 1.00mm)
Piston Specifications				
Part No.	513110			
Casting No.	87L34			
Clearance	0.0011 in. @ 0.500 in. from the bottom			
Compression Dist.	31.46mm/1.239in			
Head Type	+.033in			
Notes	Fixed & offset pin			
Oversize Available	Std, .50, .75, 1.00mm			
Pin Size - mm (in)	21.000x75.0 (.827x2.953)			
Ring Size (mm)	2@1.2, 1@3.0			
Std. Cyl. Diameter	87.500 (3.445)	513110		
3	2.0 - (122) 1990-92 (DOHC) 4G63 - 4 Cylinder 85.00mm Bore			
	Rod Bearing	BB1085J	513 PS 19615	(Std.,.010,.020)
	Main Bearing	BC1821J	513 HS 19614	.25/.50 sets have +0.15mm flange width (Std, 010, 020, 030)
4	2.0 - (122) 1983-92 (SOHC) G63B, 4G63 - 4 Cylinder 85.00mm Bore			
	Cast Piston Ring	6899	513 63 N0	From 11/1/86 1991 (.020,.030,.040)
	Chrome Piston Ring	2C6171	513 66 N0	1983 To 11/1/86 (.020,.030,.040)
	Rod Bearing	BB1085J	513 PS 19615	(Std.,.010,.020)
	Main Bearing	BC1821J	513 HS 19614	.25/.50 sets have +0.15mm flange width (Std, 010, 020, 030)
5	2.0 -C,N (122) 1995-99 (SOHC) - 4 Cylinder 87.50mm Bore			
	Chrome Piston Ring	2C4759	513 65 N0	(.020,.030,.040,.060)
	Rod Bearing	BB1635J	900 PS 19702	(Std, 010, 020)
	Main Bearing	BC2028J	900 HS 19706	(Std, 010, 020)
	Cam Bearing	PDA-3	513 NS 19651	(Std.)
6	2.2 - (135) 1989-93 (DOHC) - 4 Cylinder 87.50mm Bore			
	Cast Piston Ring	5652	513 32 N0	1989-1990 (.020,.030,.040)
	Moly Piston Ring	2M5652	513 80 N0	1989-1990 (.020,.030,.040,.060)
	Rod Bearing	BB286J	513 PS 18875	(Std, 010, 020, 030)
	Main Bearing	BC369J	513 HS 18886	(Std, 010, 020)
7	2.2 - (135) 1981-94 (SOHC) - 4 Cylinder 87.50mm Bore			
	Cast Piston Ring	5652	513 32 N0	1981-1985 Deep oil ring groove (.020,.030,.040)
		4222	513 67 N0	1985-1994 Shallow oil ring groove (.020,.030,.040)
	Moly Piston Ring	2M5652	513 80 N0	1981-1985 Deep oil ring groove (.020,.030,.040,.060)
		2M4222	513 68 N0	1985-1994 Shallow oil ring groove (.020,.030,.040)
	Rod Bearing	BB286J	513 PS 18875	(Std, 010, 020, 030)
	Main Bearing	BC369J	513 HS 18886	(Std, 010, 020)
	Cam Bearing	PDA-1	513 PS 19554	SOHC Half Shell Set (Std.)
		PDG-26	513 BS 19555	1981-1993 Bal. Shaft set (Std.)
	Piston	513100	5131000050203	1986-1990 Turbo (Std, .50, .75, 1.00mm)
		513140	513140	1986-1990 Turbo Intercooled (Std, .50, .75mm)

Chrysler (Includes Light Trucks) (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
7	2.2 - (135) 1981-94 (SOHC) - 4 Cylinder 87.50mm Bore (Continued)			

Piston Specifications

Part No.	513100		Part No.	513140	
Casting No.	87L23		Casting No.	87V90	
Clearance	0.0020 in. @ 1.750 in. from the top		Clearance	0.0010 in. @ 0.500 in. from the bottom	
Compression Dist.	40.47mm/1.593in		Compression Dist.	40.47mm/1.593in	
Head Type	-.188in		Head Type	-.188in	
Notes	Fixed & offset pin		Notes	Floating & offset pin	
Oversize Available	Std., .50, .75, 1.00mm		Oversize Available	Std., .50, .75, 1.00mm	
Pin Size - mm (in)	22.880x75.8 (.901x2.985)		Pin Size - mm (in)	22.880x75.8 (.901x2.717)	
Ring Size (mm)	2@1.5, 1@4.0	513100	Ring Size (mm)	2@1.5, 1@4.0	513140
Std. Cyl. Diameter	87.499 (3.445)		Std. Cyl. Diameter	87.500 (3.445)	

8	2.4 - (144) 1992 (SOHC) 4G64 - 4 Cylinder 86.50mm Bore			
	Chrome Piston Ring	2C4783	513 78 N0	(Std., .020, .030, .040)
	Rod Bearing	BB1085J	513 PS 19615	(Std., .010, .020)
	Main Bearing	BC1821J	513 HS 19614	.25/.50 sets have +0.15mm flange width (Std., 010, 020, 030)

9	2.4 -B,X (148) 1995-01 (DOHC) - 4 Cylinder 3.444 Bore			
	Chrome Piston Ring	2C4948	513 33 N0	1.2/1.5/3.0mm (Std., .004, .030, .040)
	Rod Bearing	BB4565J	900PS19704	1995-2000 (Std., 010, 020, 030)
	Main Bearing	BC7313J	900 HS 19709	1995-2000 (Std., 010, 020, 030)
	Piston	513290	513290	Use 2C4948 Rings (Std., .1, .25, .50, .75mm)

Piston Specifications

Part No.	513290		
Casting No.	87L39		
Clearance	0.0016 in. @ 0.577 in. from the bottom		
Compression Dist.	30.40mm/1.17in		
Head Type	+ .226in		
Notes	Domed		
Oversize Available	Std., .1, .25, .50, .75mm		
Pin Size - mm (in)	22.000x73.0 (.866x2.874)		
Ring Size (mm)	1@1.2, 1@1.5, 1@ 3.0	513290	
Std. Cyl. Diameter	87.500 (3.445)		

10	2.5 -P,H (150) 2001-02 (OHV) - 4 Cylinder 3.858 Bore			
	Piston	513440	513440	(Std., .50, .75, 1.00mm)

Piston Specifications

Part No.	513440		
Casting No.	98L58		
Clearance	*		
Compression Dist.	*		
Head Type	*		
Notes	Check For Availability		
Oversize Available	Std., .50, .75, 1.00mm		
Pin Size - mm (in)	*		
Ring Size (mm)	*	513440	
Std. Cyl. Diameter	98.4 (3.875)		

11	2.5 - (152) 1995-00 (SOHC) 6G73 - V6 83.50mm Bore			
	Chrome Piston Ring	2C4928	51386N	(.020, .030, .040)

12	2.5 - (153) 1986-95 (SOHC) - 4 Cylinder 87.50mm Bore			
	Cast Piston Ring	4222	513 67 N0	Exc. Turbo - Use with shallow oil ring groove (.020, .030, .040)
	Moly Piston Ring	2M4206	513 69 N0	(.020, .030, .040)
		2M4222	513 68 N0	Exc. Turbo - Use with shallow oil ring groove (.020, .030, .040)
	Rod Bearing	BB286J	513 PS 18875	(Std., 010, 020, 030)
	Main Bearing	BC369J	513 HS 18886	(Std., 010, 020)
	Cam Bearing	PDA-1	513 PS 19554	SOHC Half Shell Set (Std.)
		PDG-26	513 BS 19555	Bal. Shaft set (Std.)
	Piston	513130	5131300030203	1989-1992 Turbo, Floating & offset pin (Std., .50, .75, 1.00mm)

Chrysler (Includes Light Trucks) (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
12	2.5 - (153) 1986-95 (SOHC) - 4 Cylinder 87.50mm Bore (Continued)			
Piston Specifications				
Part No.	513130			
Casting No.	87V95			
Clearance	0.0011 in. @ 0.500 in. from the bottom			
Compression Dist.	34.50mm/1.358in			
Head Type	-.297in			
Notes	Floating & offset pin			
Oversize Available	Std., .50, .75, 1.00mm			
Pin Size - mm (in)	22.880x75.8 (.901x2.717)			
Ring Size (mm)	2@1.5, 1@4.0			
Std. Cyl. Diameter	87.500 (3.445)			
513130				
13	2.6 - (156) 1978-89 (SOHC) G54B - 4 Cylinder 91.10mm Bore			
Cast Piston Ring	5595 5667	513 36 N0 513 79 N0	1978 To 4/1/83 (.020,.030,.040) From 4/1/83 1989 (.020,.030,.040,.060)	
Chrome Piston Ring	2C5595 2C5667	513 60 N0 513 61 N0	1978 To 4/1/83 w/2.0mm Top ring (.020,.030,.040,.060) From 4/1/83 1989 (.020,.030,.040,)	
Rod Bearing	BB156J	513 PS 19077	(Std, 010, 020, 030)	
Main Bearing	BC425J	014 HS 18830	(Std, 010, 020, 030)	
Cam Bearing	MIA-1 MIG-2	513 NB 19598 513 NB 19599	SOHC Half Shell Set (Std.) Bal. Shaft set (Std.)	
14	2.7 -R (166) 1998-01 (DOHC) - V6 3.38 Bore			
Moly Piston Ring	2M4946	51346N0		
Piston	513460	513460	(Std.,.1,.25,.50,.75,1.00mm)	
Piston Specifications				
Part No.	513460			
Casting No.	86L54			
Clearance	0.0018 in. @ 0.393 in. from the bottom			
Compression Dist.	30.90mm/1.217in			
Head Type	Flat			
Notes	Topped			
Oversize Available	Std.,.1,.25,.50,.75,1.00			
Pin Size - mm (in)	22.000x60.6 (.866x2.386)			
Ring Size (mm)	2@1.5, 1@3.0			
Std. Cyl. Diameter	86.000 (3.386)			
513460				
15	3.0 - (181) 1987-00 (SOHC) 6G72 - V6 91.1mm Bore			
Cast Piston Ring	4453	676 32 N0	Exc. Turbo (.020,.030,.040,.060)	
Moly Piston Ring	2M4453	513 70 N0	Exc. Turbo (Std.,.020,.030,.040)	
Rod Bearing	BB634J	513 PS 18880	1988-1999 (Std, 010, 020, 030)	
Main Bearing	BC422J	513 HS 18888	1988-1999 (Std, 010, 020, 030)	
Cam Bearing	MIA-5	676 PS 19550	1987-1999 SOHC Half Shell Set (Std.)	
16	3.0 - (181) 1992-97 (DOHC) 6G72 - V6 91.1mm Bore			
Chrome Piston Ring	2C4670	513 43 N0	Stealth, 24 valve (.020,.030)	
17	3.2 -J (195) 1998-01 (SOHC) - V6 92mm Bore			
Chrome Piston Ring	2C4903	513 38 N0	(Std.,.004,.010,.020)	
Piston	513840	513840	(Std, .1, .25, .50, .75mm)	
Piston Specifications				
Part No.	513840			
Casting No.	92L66			
Clearance	0.0024 in. @ 0.393 in. from the bottom			
Compression Dist.	37.89mm/1.492in			
Head Type	Flat			
Notes	Topped .25mm			
Oversize Available	Std, .1, .25, .50, .75mm			
Pin Size - mm (in)	24.000x60.6 (.9449x2.389)			
Ring Size (mm)	1@1.2, 1@1.5, 1@3.0			
Std. Cyl. Diameter	92.000 (3.622)			
513840				
18	3.3 - (201) 1990-97 (OHV) - V6 93.00mm Bore			
Cast Piston Ring	4636	513 39 N0	(Std.,.020,.030,.040)	
Continued On Next Page				

Chrysler (Includes Light Trucks) (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
18	3.3 - (201) 1990-97 (OHV) - V6 93.00mm Bore (Continued)			
	Moly Piston Ring	2M4636	513 71 N0	(Std.,.020,.030,.040,.060)
	Rod Bearing	BB638J	513 PS 10023	(Std, 010, 020, 030)
	Main Bearing	BC453J	513 HS 19576	(Std, 010, 020, 030)
	Cam Bearing	PD-28	513 NB 19605	(Std.)
19	3.5 - (215) 1993-01 (SOHC) - V6 96.00mm Bore			
	Cast Piston Ring	4648	513 40 N0	1993-1995 (Std.,.020,.030,.040)
	Chrome Piston Ring	2C4890	513 73 N0	1996-1999 (.020,.030,.040)
	Moly Piston Ring	2M4648	513 72 N0	1993-1995 (Std.,.020,.030,.040)
	Rod Bearing	BB638J	513 PS 10023	1993-1997 (Std, 010, 020, 030)
	Piston	513160L	5133100030903	1993-1995 (Std, .50, .75, 1.00mm)
		513160R	5133200030903	1993-1995 (Std, .50, .75, 1.00mm)
		513180L	5133300030903	1996-1997 Grafal coated skirt (Std, .50, .75, 1.00mm)
		513180R	5133400030903	1996-1997 Grafal coated skirt (Std, .50, .75, 1.00mm)
		513850	513850	1998-2001 (Std, .1, .25, .50, .75mm)

Piston Specifications

Part No.	513160L		Part No.	513160R	
Casting No.	96V30		Casting No.	96V30	
Clearance	0.0014 in. @ 0.375 in. from the bottom		Clearance	0.0014 in. @ .0375 in. from the bottom	
Compression Dist.	38.28mm/1.507in		Compression Dist.	38.28mm/1.507in	
Head Type	+031in		Head Type	+031in	
Notes	Asymmetrical		Notes	Asymmetrical	
Oversize Available	Std, .50, .75, 1.00mm		Oversize Available	Std, .50, .75, 1.00mm	
Pin Size - mm (in)	24.000x60.6 (.945x2.389)		Pin Size - mm (in)	24.000x60.6 (.945x2.389)	
Ring Size (mm)	2@1.5, 1@3.0		Ring Size (mm)	2@1.5, 1@3.0	
Std. Cyl. Diameter	96.000 (3.780)		Std. Cyl. Diameter	96.000 (3.780)	
Part No.	513180L		Part No.	513180R	
Casting No.	96V30		Casting No.	96V30	
Clearance	0.0008 in. @ 0.393 in. from the bottom		Clearance	0.0014 in. @ 0.375 in. from the bottom	
Compression Dist.	38.28mm/1.507in		Compression Dist.	38.28mm/1.507in	
Head Type	+031in		Head Type	+031in	
Notes	Grafal Coated Skirt		Notes	Grafal Coated Skirt	
Oversize Available	Std, .50, .75, 1.00mm		Oversize Available	Std, .50, .75, 1.00mm	
Pin Size - mm (in)	24.000x60.6 (.945x2.389)		Pin Size - mm (in)	24.000x60.6 (.945x2.389)	
Ring Size (mm)	1@1.2, 1@1.5, 1@3.0		Ring Size (mm)	1@1.2, 1@1.5, 1@3.0	
Std. Cyl. Diameter	96.000 (3.780)		Std. Cyl. Diameter	96.000 (3.780)	
Part No.	513850				
Casting No.	96L32				
Clearance	0.0024 in. @ 0.393 in. from the bottom				
Compression Dist.	37.89mm/1.492in				
Head Type	Flat				
Notes	Topped .25mm				
Oversize Available	Std, .1, .25, .50, .75mm				
Pin Size - mm (in)	24.000x60.8 (.9449x2.389)				
Ring Size (mm)	1@1.2, 1@1.5, 1@3.0				
Std. Cyl. Diameter	96.000 (3.780)				

20 3.7 - (225) 1976-87 (OHV) - 6 Cylinder 3.400" Bore

Cast Piston Ring	687	513 74 N0	(.020,.030,.040,.060,.080)
Moly Piston Ring	2M687	513 75 N0	(.020,.030,.040,.060)
Rod Bearing	BB610J	513 PS 18877	1976-1983 w/cast crank (Std, 010, 020, 030)
Main Bearing	BC311J	513 HS 18881	1976-1983 w/cast crank (Std, 010, 020, 030)
Cam Bearing	PD-21	513 NB 19603	1979-1987 (Std.)

21 3.7 -K (226) 2002-03 (SOHC) - V6 3.66 Bore

Moly Piston Ring	2M4636	513 71 N0	(Std.,.020,.030,.040,.060)
Piston	513420	5134200030203	(Std., .10, .50, .75, 1.00mm)

Chrysler (Includes Light Trucks) (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
21	3.7 -K (226) 2002-03 (SOHC) - V6 3.66 Bore (Continued)			
Piston Specifications				
Part No.	513420			
Casting No.	93L27			
Clearance	0.0017 in. @ 0.255 in. from the bottom			
Compression Dist.	31.79mm/1.252in			
Head Type	Flat			
Notes	Flat Top			
Oversize Available	Std., .50, .75, 1.00mm			
Pin Size - mm (in)	24.000x58.0 (.9449x2.283)			
Ring Size (mm)	2@1.5, 1@3.0			
Std. Cyl. Diameter	93.010 (3.662)			
22	3.8 - (232) 1991-00 (OHV) - V6 96.00mm Bore			
	Cast Piston Ring	4648	513 40 N0	(Std.,.020,.030,.040)
	Moly Piston Ring	2M4648	513 72 N0	(Std.,.020,.030,.040)
	Rod Bearing	BB638J	513 PS 10023	(Std, 010, 020, 030)
	Main Bearing	BC453J	513 HS 19576	(Std, 010, 020, 030)
	Cam Bearing	PD-28	513 NB 19605	1991-1999 (Std.)
23	3.9 - (238) 1987-00 (OHV) - V6 3.910" Bore			
	Cast Piston Ring	5560 4760	019 01 N0 019 04 N0	1987-1991 (.020,.030,.040,.060) 1992-1999 Shallow oil ring groove (.020,.030,.040)
	Moly Piston Ring	2M5560 2M4760	019 02 N0 019 03 N0	1987-1991 (.020,.030,.040) 1992-1999 Shallow oil ring groove (.020,.030,.040)
	Rod Bearing	BB630J	513 PS 18879	(Std, 010, 020, 030)
	Main Bearing	BC385J	513 HS 18887	(Std, 010, 020, 030)
	Cam Bearing	PD-27	513 NB 19604	1987-1999 (Std.)
24	4.5 - (273) 1964-69 (OHV) - V8 3.625" Bore			
	Rod Bearing	BB136J	513 PS 18874	(Std, 010, 020, 030)
	Main Bearing	BC321J	513 HS 18885	(Std, 010, 020, 030, 040)
	Cam Bearing	PD-16	019 BS 19552	(Std.)
25	4.7 -N (285) 1999-01 (SOHC) - V8 93mm Bore			
	Moly Piston Ring	2M4790	513 42 N0	Std.,.020,.030,.040
	Main Bearing	BC7352J	900 HS 19710	(Std, 010, 020)
	Piston	513420	5134200030203	Exc. H.O. (Std., .10, .50, .75, 1.00mm)
Piston Specifications				
Part No.	513420			
Casting No.	93L27			
Clearance	0.0017 in. @ 0.255 in. from the bottom			
Compression Dist.	31.79mm/1.252in			
Head Type	Flat			
Notes	Flat Top			
Oversize Available	Std., .50, .75, 1.00mm			
Pin Size - mm (in)	24.000x58.0 (.9449x2.283)			
Ring Size (mm)	2@1.5, 1@3.0			
Std. Cyl. Diameter	93.010 (3.662)			
26	5.2 - (318) 1958-99 (OHV) - V8 3.910" Bore			
	Cast Piston Ring	148	513 76 N0	(Std.,.020,.030,.040,.060)
	Moly Piston Ring	2M148	513 77 N0	(Std.,.020,.030,.040,.060)
	Rod Bearing	BB136J	513 PS 18874	(Std, 010, 020, 030)
	Main Bearing	BC320J BC321J	513 HS 18884 513 HS 18885	W/3.530" flange o.d. (Std, 010, 020) W/3.366" flange o.d. (Std, 010, 020, 030, 040)
	Cam Bearing	PD-16 PD-25	019 BS 19552 019 BS 19553	1958-1979 (Std.) 1980-1995 (Std.)
27	5.9 - (360) 1971-02 (OHV) - V8 4.000" Bore			
	Cast Piston Ring	139 4726	513 82 N0 513 41 N0	1971-1992 (.020,.030,.040,.060) 1993-1999 (.020,.030,.040)
	Moly Piston Ring	2M139 2M4726	513 83 N0 513 81 N0	1971-1992 (Std.,.020,.030,.040,.060,.080) 1993-1999 (Std.,.020,.030,.040)
	Rod Bearing	BB136J	513 PS 18874	1971-2000 (Std, 010, 020, 030)
	Main Bearing	BC313J	513 HS 18883	1974-2000 (Std, 010, 020, 030)
	Continued On Next Page			

Chrysler (Includes Light Trucks) (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
27	5.9 - (360) 1971-02 (OHV) - V8 4.000" Bore (Continued)			
	Cam Bearing	PD-16 PD-25	019 BS 19552 019 BS 19553	1971-1979 (Std.) 1980-2001 (Std.)
	Piston	513570	513570	1992-2002 (Std., .50, .75, 1.00mm)

Piston Specifications

Part No.	513570		
Casting No.	101L31		
Clearance	0.0010 in. @ 1.299 in. from the bottom		
Compression Dist.	41.20mm/1.622in		
Head Type	-.089in		
Notes	Check For Availability		
Oversize Available	Std., .50, .75, 1.00mm		
Pin Size - mm (in)	25.000x68.0 (.984x2.677)		
Ring Size (mm)	2@1.5, 1@4.0		
Std. Cyl. Diameter	101.6 (4.0)		

513570

28 8.0 - (488) 1994-01 (OHV) - V10 4.000 Bore

	Piston	513450	513450	Iron Block-Trucks (Std., .50, .75, 1.00mm)
--	--------	---------------	--------	--

Piston Specifications

Part No.	513450		
Casting No.	101L43		
Clearance	0.0010 in. @ 1.299 in. from the bottom		
Compression Dist.	41.20mm/1.622in		
Head Type	-.089in		
Notes	Iron Block		
Oversize Available	Std., .50, .75, 1.00mm		
Pin Size - mm (in)	25.000x68.0 (.984x2.677)		
Ring Size (mm)	2@1.5, 1@4.0		
Std. Cyl. Diameter	101.613 (4.001)		

513450

Cummins

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
3 Cylinder 2.9 (177) B		1	6 Cylinder 5.9 (357) B Marine		3	6 Cylinder (Continued) 5.9 (359) B	1994-97	7
4 Cylinder 3.9 (239) B		2	5.9 (358) B	TO-91	4			
			5.9 (359) B	1991-93	5			
			5.9 (359) B	1994	6			

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
1	2.9 - (177) B Non-Turbo - 3 Cylinder 4.016 Bore			
	Chrome Piston Ring	28631N	286 31 N0	Naturally aspirated - use with 286310 (Std.,.020,.030,.040)
	Rod Bearing	BB424J	183 PS 19579	(Std, 010, 020, 030)
	Main Bearing	BC502J	183 HS 19570	(Std, 010, 020, 030)
	Cam Bearing	CU-12	183 NB 19587	(Std.)
	Piston	286310	2863100030203	Naturally aspirated, Mexican hat type head (Std, .50, .75, 1.00mm)

Piston Specifications

Part No.	286310		
Casting No.	102L37		
Clearance	0.0050 in. @ 0.500 in. from the bottom		
Compression Dist.	71.56mm/2.817in		
Head Type	-.760in		
Notes			
Oversize Available	Std, .50, .75, 1.00mm		
Pin Size - mm (in)	40.00x75.8 (1.575x2.984)		
Ring Size (mm)	2@2.385, 1@4.0		
Std. Cyl. Diameter	102.000 (4.016)		

286310

Cummins (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
2	3.9 - (239) B Diesel - 4 Cylinder 4.016" Bore			
	Chrome Piston Ring	28621N 28631N	286 21 N0 286 31 N0	Turbo-use with 286210 & 286110 (Std.,.020,.030,.040) Naturally aspirated - use with 286310 (Std.,.020,.030,.040)
	Rod Bearing	BB424J	183 PS 19579	(Std, 010, 020, 030)
	Main Bearing	BC502J	183 HS 19570	(Std, 010, 020, 030)
	Cam Bearing	CU-12	183 NB 19587	(Std.)
	Piston	286110 286210 286310	2861100030203 2862100030203 2863100030203	Turbo aftercooled, Mexican hat type head (Std, .50, .75, 1.00mm) Turbo, Mexican hat type head (Std, .50, .75, 1.00mm) Naturally aspirated, Mexican hat type head (Std, .50, .75, 1.00mm)

Piston Specifications

Part No.	286110		Part No.	286210	
Casting No.	102L37		Casting No.	102L37	
Clearance	0.0050 in. @ 0.500 in. from the bottom		Clearance	0.0050 in. @ 0.500 in. from the bottom	
Compression Dist.	71.56mm/2.817in		Compression Dist.	71.56mm/2.817in	
Head Type	-.685in		Head Type	-.697in	
Notes	Keystone top ring		Notes	Keystone top ring	
Oversize Available	Std, .50, .75, 1.00mm		Oversize Available	Std, .50, .75, 1.00mm	
Pin Size - mm (in)	40.00x75.8 (1.575x2.984)		Pin Size - mm (in)	40.00x75.8 (1.575x2.984)	
Ring Size (mm)	1@3.0, 1@2.385, 1@4.0		Ring Size (mm)	1@3.0, 1@2.385, 1@4.0	
Std. Cyl. Diameter	102.000 (4.016)	286110	Std. Cyl. Diameter	102.000 (4.016)	286210
Part No.	286310				
Casting No.	102L37				
Clearance	0.0050 in. @ 0.500 in. from the bottom				
Compression Dist.	71.56mm/2.817in				
Head Type	-.760in				
Notes					
Oversize Available	Std, .50, .75, 1.00mm				
Pin Size - mm (in)	40.00x75.8 (1.575x2.984)				
Ring Size (mm)	2@2.385, 1@4.0				
Std. Cyl. Diameter	102.000 (4.016)	286310			

3	5.9 - (357) B Marine Diesel - 6 Cylinder 4.016" Bore			
	Piston	286050	286050	B series marine (.50) Piston with 28621N rings

Piston Specifications

Part No.	286050		
Casting No.	102L37		
Clearance	0.0047 in. @ 0.472 in. from the bottom		
Compression Dist.	71.56mm/2.817in		
Head Type	-.685in		
Notes	Check For Availability		
Oversize Available	.50		
Pin Size - mm (in)	40.00x75.8 (1.575x2.984)		
Ring Size (mm)	1@3.0, 1@2.385, 1@4.0		
Std. Cyl. Diameter	102.0 (4.016)	286050	

4	5.9 - (358) TO-91 B Diesel - 6 Cylinder 4.016" Bore			
	Chrome Piston Ring	28621N 28631N	286 21 N0 286 31 N0	(Std.,.020,.030,.040) Naturally aspirated - use with 286310 (Std.,.020,.030,.040)
	Rod Bearing	BB426J	183 PS 19580	(Std, 010, 020, 030)
	Main Bearing	BC503J	183 HS 19559	(Std, 010, 020, 030)
	Cam Bearing	CU-12	183 NB 19587	(Std.)
	Piston	286110 286110WR 286210 286210WR 286310 286310WR	2861100030203 2861100020303 2862100030203 2862103020303 2863100030203 2863100020303	Turbo aftercooled, Mexican hat type head (Std, .50, .75, 1.00mm) Same as 286110 except with rings Turbo, Mexican hat type head (Std, .50, .75, 1.00mm) Same as 286210 except with rings Naturally aspirated, Mexican hat type head (Std, .50, .75, 1.00mm) Same as 286310 except with rings

Cummins (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
4	5.9 - (358) TO-91 B Diesel - 6 Cylinder 4.016" Bore (Continued)			

Piston Specifications

Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	286110 102L37 0.0050 in. @ 0.500 in. from the bottom 71.56mm/2.817in -.685in Keystone top ring Std. .50, .75, 1.00mm 40.00x75.8 (1.575x2.984) 1@3.0, 1@2.385, 1@4.0 102.000 (4.016)	 286110	Part No. Notes	286110WR Same As 286110 Except With Rings	 286110WR
Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	286210 102L37 0.0050 in. @ 0.500 in. from the bottom 71.56mm/2.817in -.697in Keystone top ring Std. .50, .75, 1.00mm 40.00x75.8 (1.575x2.984) 1@3.0, 1@2.385, 1@4.0 102.000 (4.016)	 286210	Part No. Notes	286210WR Same As 286210 Except With Rings	 286210WR
Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	286310 102L37 0.0050 in. @ 0.500 in. from the bottom 71.56mm/2.817in -.760in Keystone top ring Std. .50, .75, 1.00mm 40.00x75.8 (1.575x2.984) 2@2.385, 1@4.0 102.000 (4.016)	 286310	Part No. Notes	286310WR Same As 286310 Except With Rings	 286310WR

5	5.9 - (359) 1991-93 B Diesel - 6 Cylinder 4.016" Bore			
Chrome Piston Ring	28621N	286 21 N0	(Std...020,.030,.040)	
Rod Bearing	BB426J	183 PS 19580	(Std, 010, 020, 030)	
Main Bearing	BC503J	183 HS 19559	(Std, 010, 020, 030)	
Piston	286020	2860200020303	Turbo re-entrant bowl, inline inj pump (Std, .50, .75, 1.00mm)	
	286021	2860210020303	Turbo, Re-entrant bowl, Inline inj pump, Note: This piston ha reduced compression hgt by .010" to allow block milling. (Std, .50, .75, 1.00mm)	
	286021WR	2860212020303	Same as 286021 except with rings	
	286030	2860300020303	Turbo, Re-entrant bowl, Rotary inj pump (Std, .50, .75, 1.00mm)	
	286031	2860310020303	Turbo, Re-entrant bowl, Rotary inj pump Note: This piston has reduced compression hgt by .010" to allow block milling. (Std, .50, .75, 1.00mm)	
	286031WR	2860312020303	Same as 286031 except with rings	

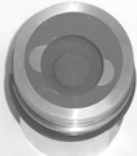
Piston Specifications

Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	286020 102L55A1 0.0050 in. @ 0.500 in. from the bottom 71.61mm/2.819in -.776in Keystone top ring Std. .50, .75, 1.00mm 40.00x82.8 (1.575x3.260) 1@3.0, 1@2.4, 1@4.0 102.000 (4.016)	 286020	Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	286021 102L55A1 0.0050 in. @ 0.500 in. from the bottom 71.36mm/2.809in -.776in Keystone top ring, Topped Std. .50, .75, 1.00mm 40.00x82.8 (1.575x3.260) 1@3.0, 1@2.4, 1@4.0 102.000 (4.016)	 286021
---	--	--	---	--	--

Cummins (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
5	5.9 - (359) 1991-93 B Diesel - 6 Cylinder 4.016" Bore <i>(Continued)</i>			

Piston Specifications

Part No. Notes	286021WR Same As 286021 Except With Rings	 286021WR	Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	286030 102L55A1 0.0050 in. @ 0.500 in. from the bottom 71.63mm/2.820in -.815in Keystone top ring Std. .50, .75, 1.00mm 40.00x82.8 (1.575x3.260) 1@3.0, 1@2.4, 1@4.0 102.000 (4.016)	 286030
Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	286031 102L55A1 0.0050 in. @ 0.500 in. from the bottom 71.38mm/2.810in -.815in Keystone top ring, Topped Std. .50, .75, 1.00mm 40.00x82.8 (1.575x3.260) 1@3.0, 1@2.4, 1@4.0 102.000 (4.016)	 286031	Part No. Notes	286031WR Same As 286031 Except With Rings	 286031WR

6	5.9 - (359) 1994 B Diesel - 6 Cylinder 4.016" Bore			
Chrome Piston Ring	28621N	286 21 N0	(Std., .020, .030, .040)	
Rod Bearing	BB426J	183 PS 19580	(Std, 010, 020, 030)	
Main Bearing	BC503J	183 HS 19559	(Std, 010, 020, 030)	
Piston	286040	2860400020303	Turbo, Re-entrant bowl, Inline inj pump (Std, .50, .75, 1.00mm)	
	286041	2860410020303	Turbo, Re-entrant bowl, Inline inj pump Note: This piston has reduced compression hgt by .010" to allow block milling. (Std, .50, .75, 1.00mm)	
	286041WR	2860412020303	Same as 286041 except with rings	

Piston Specifications

Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	286040 102L55 (102039) 0.0050 in. @ 0.500 in. from the bottom 71.63mm/2.820in -.866in Keystone top ring Std. .50, .75, 1.00mm 40.00x82.8 (1.575x3.260) 1@3.0, 1@2.4, 1@4.0 102.000 (4.016)	 286040	Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	286041 102L55A3 0.0050 in. @ 0.500 in. from the bottom 71.38mm/2.810in -.866in Keystone top ring, Topped Std. .50, .75, 1.00mm 40.00x82.8 (1.575x3.260) 1@3.0, 1@2.35, 1@3.99 102.000 (4.016)	 286041
Part No. Notes	286041WR Same As 286041 Except With Rings	 286041WR			

7	5.9 - (359) 1994-97 B Diesel - 6 Cylinder 4.016" Bore			
Chrome Piston Ring	28621N	286 21 N0	(Std.,.020,.030,.040)	
Rod Bearing	BB426J	183 PS 19580	(Std, 010, 020, 030)	
Main Bearing	BC503J	183 HS 19559	(Std, 010, 020, 030)	
Piston	286010	2860100020303	Turbo, Re-entrant bowl, Inline inj pump (Std, .50, .75, 1.00mm)	
	286011	2860110020303	Turbo, Re-entrant bowl, Inline inj pump Note: This piston has reduced compression hgt by .010" to allow block milling. (Std, .50, .75, 1.00mm)	
	286011WR	2860112020303	Same as 286011 except with rings	

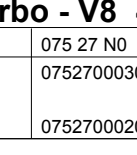
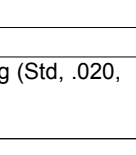
Cummins (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
7	5.9 - (359) 1994-97 B Diesel - 6 Cylinder 4.016" Bore (Continued)			
Piston Specifications				
Part No.	286010		Part No.	286011
Casting No.	102L55A2		Casting No.	102L55A2
Clearance	0.0050 in. @ 0.500 in. from the bottom		Clearance	0.0050 in. @ 0.500 in. from the bottom
Compression Dist.	71.70mm/2.823in		Compression Dist.	71.43mm/2.813in
Head Type	-.866in		Head Type	-.866in
Notes	Keystone top ring		Notes	Keystone top ring, Topped
Oversize Available	Std., .50, .75, 1.00mm		Oversize Available	Std., .50, .75, 1.00mm
Pin Size - mm (in)	40.00x82.8 (1.575x3.260)		Pin Size - mm (in)	40.00x82.8 (1.575x3.260)
Ring Size (mm)	1@3.0, 1@2.4, 1@4.0		Ring Size (mm)	1@3.0, 1@2.4, 1@4.0
Std. Cyl. Diameter	102.000 (4.016)		Std. Cyl. Diameter	102.000 (4.016)
Part No.	286011WR			
Notes	Same As 286011 Except With Rings			

Detroit Diesel

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
V8 8.2 (500)	TO-88	1	V8 (Continued) 8.2 (500)	TO-88	2			
Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description				
1	8.2 - (500) TO-88 Diesel Non-Turbo - V8 4.254" Bore							
	Chrome Piston Ring	07526N	075 26 N0	Non-Turbo (Std.,.020,.030,.040)				
	Piston	075260	0752600020303	Naturally aspirated, NI Resist ring carrier (Std, .020, .030, .040in)				
		075260WR	0752600020303	Same as 075260 except with rings				

Piston Specifications

Part No.	075260		Part No.	075260WR	
Casting No.	108V5		Notes	Same As 075260 Except With Rings	
Clearance	0.0020 in. @ 0.750 in. from the bottom				
Compression Dist.	60.14mm/2.368in				
Head Type	-.709in				
Notes					
Oversize Available	Std., .020, .030, .040in				
Pin Size - mm (in)	38.00x74.9 (1.496x2.949)				
Ring Size (mm)	2@2.5, 1@4.5				
Std. Cyl. Diameter	108.042 (4.254)				

2 8.2 - (500) TO-88 Diesel Turbo - V8 4.254" Bore

Chrome Piston Ring	07527N	075 27 N0	Turbo (Std., .020, .030, .040)
Piston	075270	0752700030203	Turbo, NI Resist ring carrier, Keystone 1st ring (Std., .020, .030, .040in)
	075270WR	0752700030203	Same as 075270 except with rings

Detroit Diesel (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
2	8.2 - (500) TO-88 Diesel Turbo - V8 4.254" Bore (Continued)			
Piston Specifications				
Part No.	075270		Part No.	075270WR
Casting No.	108V6		Notes	Same As 075270 Except With Rings
Clearance	0.0025 in. @ 0.750 in. from the bottom			
Compression Dist.	60.14mm/2.368in			
Head Type	-.709in			
Notes	Keystone top ring			
Oversize Available	Std. .020, .030, .040in			
Pin Size - mm (in)	38.00x74.9 (1.496x2.949)			
Ring Size (mm)	1@3.0, 1@2.5, 1@4.5			
Std. Cyl. Diameter	108.042 (4.254)			
		075270		075270WR

Ford

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
4 Cylinder			V6			V8 (Continued)		
1.6 (98) (SOHC)	1981-85	1	4.0 (244) (OHV)	1990-01	17	5.8 (360) (OHV)	1968-76	33
1.9 (116) (SOHC)	1985-96	2	4.0 (244) (SOHC)	1997-01	18	5.9 (361) (OHV)	1964-78	34
2.0 (121) Ranger (SOHC)	1983-88	3	6 Cylinder			6.1 (370) (OHV)	1979-91	35
2.0 (121) (SOHC)	1997-00	4	4.1 (250) (OHV)	1969-80	19	6.3 (389) (OHV)	1975-78	36
2.0 (121) ZETEC (DOHC)	1995-04	5	V6			6.4 (390) (OHV)	1964-76	37
2.2 (134) (SOHC)	1989-94	6	4.2 (256) (OHV)	1997-01	20	6.4 (391) (OHV)	1964-78	38
2.3 (140) HSC (OHV)	1984-94	7	V8			6.6 (400) (OHV)	1971-82	39
2.3 (140) (OHC)	1974-93	8	4.6 (281) (DOHC)	1993-00	21	V10		
2.5 (153) HSC (OHV)	1986-91	9	4.6 (281) (SOHC)	1991-03	22	6.8 (415) (SOHC)	1997-00	40
V6			4.7 (289) (OHV)	1963-68	23	V8		
2.8 (171) Truck (OHV)	1983-86	10	6 Cylinder			6.9 (420) Navistar (OHV)	1984-87	41
2.9 (177) (OHV)	1986-92	11	4.9 (300) (OHV)	1965-97	24	7.0 (429) (OHV)	1968-97	42
3.0 (183) (OHV)	1986-00	12	V8			7.3 (445) Navistar (OHV)	1988-94	43
6 Cylinder			5.0 (302) (OHV)	1968-00	25	7.3 (445) Navistar (OHV)	1994-95	44
3.3 (200) (OHV)	1963-83	13	5.4 (330) Truck (SOHC)	1997-00	26	7.3 (445) Navistar (OHV)	1996-03	45
V6			5.4 (330) Truck (OHV)	1964-78	27	7.5 (460) (OHV)	1968-98	46
3.8 (232) (OHV)	1982-00	14	5.4 (330) 4 Valve (DOHC)	1999-01	28			
6 Cylinder			5.8 (351) Modified (OHV)	1975-82	29			
3.9 (240) (OHV)	1965-74	15	5.8 (351) Cleveland (OHV)	1970-74	30			
V8			5.8 (351) Windsor (OHV)	1969-91	31			
3.9 (240) (DOHC)	2000-02	16	5.8 (359) (OHV)	1973-78	32			
Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description				
1	1.6 - (98) 1981-85 (SOHC) - 4 Cylinder 80.00mm Bore							
	Moly Piston Ring	2M5653	015 63 N0	(.020,.030,.040)				
	Rod Bearing	BB621J	014 PS 18981	(Std, 010, 020, 030)				
	Main Bearing	BC372J	014 HS 18996	(Std, 010, 020, 030)				
	Cam Bearing	FA-2	014 NB 19594	(Std.)				
2	1.9 - (116) 1985-96 (SOHC) - 4 Cylinder 82.00mm Bore							
	Cast Piston Ring	4261	015 31 N0	1987-1996	(Std.,.020,.030)			
	Moly Piston Ring	2M4301	015 33 N0	1985-1986	(.020,.030,.040)			
		2M4261	015 32 N0	1987-1996	(Std.,.020,.030,.040)			
	Rod Bearing	BB621J	014 PS 18981	1985-1986	(Std, 010, 020, 030)			
		BB631J	014 PS 18985	1987-1996	(Std, 010, 020, 030)			
	Main Bearing	BC373J	014 HS 18997	(Std, 010, 020, 030)				
	Cam Bearing	FA-1	014 BS 19546	(Std.)				
3	2.0 - (121) 1983-88 (SOHC) Ranger - 4 Cylinder 89.32mm Bore							
	Cast Piston Ring	5690	015 34 N0	(.020,.030,.040)				
	Moly Piston Ring	2M5690	015 35 N0	(.020,.030,.040)				
	Rod Bearing	BB238J	014 PS 18971	(Std, 010, 020, 030)				
	Main Bearing	BC289J	014 HS 18987	(Std, 010, 020, 030)				
	Cam Bearing	F-34	014 BS 19540	(Std.)				
		FG-34	014 NB 19595	Aux. Shaft set (Std.)				

Ford (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
4	2.0 -P (121) 1997-00 (SOHC) - 4 Cylinder 84.86mm Bore			
	Rod Bearing	BB631J	014 PS 18985	(Std, 010, 020, 030)
	Main Bearing	BC373J	014 HS 18997	(Std, 010, 020, 030)
5	2.0 -3 (121) 1995-04 (DOHC) ZETEC - 4 Cylinder 3.3386" Bore			
	Moly Piston Ring	2M4887 2M4987	015 36 N0 015 37 N0	1995-1997 (Std.,.020,.030,.040) 1998-2000 (Std.,.020,.030,.040)
	Piston	014660 014670	0146600050203 0146700050203	1995-1997 Fixed & offset pin (Std, .50, .75, 1.00mm) 1998-2004 Skirt graphite coated (Std, .50, .75, 1.00mm)

Piston Specifications

Part No.	014660		Part No.	014670	
Casting No.	84V140		Casting No.	84L54	
Clearance	0.0012 in. @ 0.394 in. from the bottom		Clearance	0.0020 in. @ 0.394 in. from the bottom	
Compression Dist.	33.05mm/1.301in		Compression Dist.	29.40mm/1.157in	
Head Type	+ .050in		Head Type	+ .031in	
Notes	Fixed & offset pin		Notes	Grafal coated skirt	
Oversize Available	Std, .50, .75, 1.00mm		Oversize Available	Std, .50, .75, 1.00mm	
Pin Size - mm (in)	20.630x63.4 (.812x2.496)		Pin Size - mm (in)	20.000x56.0 (.787x2.205)	
Ring Size (mm)	1@1.5, 1@1.75, 1@3.0		Ring Size (mm)	1@1.5, 1@1.75, 1@3.0	
Std. Cyl. Diameter	84.815 (3.339)		Std. Cyl. Diameter	84.815 (3.339)	

6	2.2 - (134) 1989-94 (SOHC) - 4 Cylinder 86mm Bore			
	Moly Piston Ring	2M5664	627 12 N0	(.020,.030)
7	2.3 - (140) 1984-94 (OHV) HSC - 4 Cylinder 3.680" Bore			
	Cast Piston Ring	5688	015 41 N0	(.020,.030,.040)
	Moly Piston Ring	2M5688	015 42 N0	(.020,.030,.040)
	Rod Bearing	BB627J	014 PS 18983	1986-1994 (Std, 010, 020, 030)
	Main Bearing	BC310J	014 HS 19574	(Std, 010, 020, 030)
	Cam Bearing	F-46	014 NB 19590	(Std.)
8	2.3 - (140) 1974-93 (OHC) - 4 Cylinder 3.780" Bore			
	Cast Piston Ring	4203 5761	015 17 N0 015 38 N0	1974-1984 Exc. Turbo (.020,.030,.040) 1985-1993 Exc. Turbo (.020,.030,.040)
	Chrome Piston Ring	2C5761	015 39 N0	1985-1993 Exc. Turbo (.020,.030,.040)
	Moly Piston Ring	2M4203	015 40 N0	1974-1984 Exc. Turbo (.030,.040)
	Rod Bearing	BB238J BB238JH	014 PS 18971 791 PS 19633	(Std, 010, 020, 030) Premium bearing set
	Main Bearing	BC289J BC289JH BC370J BC370JH	014 HS 18987 791 HS 19640 014 HS 19575 791 HS 19646	1974-1990 (Std, 010, 020, 030) 1974-1990 Premium bearing set 1991-1993 (Std, 010, 020, 030) 1991-1993 Premium bearing set
	Cam Bearing	F-34 FG-34	014 BS 19540 014 NB 19595	(Std.) Bal. Shaft (Std.)
9	2.5 - (153) 1986-91 (OHV) HSC - 4 Cylinder 93.47mm Bore			
	Cast Piston Ring	5688	015 41 N0	(.020,.030,.040)
	Moly Piston Ring	2M5688	015 42 N0	(.020,.030,.040)
	Rod Bearing	BB627J	014 PS 18983	(Std, 010, 020, 030)
	Main Bearing	BC310J	014 HS 19574	(Std, 010, 020, 030)
	Cam Bearing	F-46	014 NB 19590	(Std.)
10	2.8 - (171) 1983-86 (OHV) Truck - V6 93.00mm Bore			
	Cast Piston Ring	4205	015 43 N0	(.020,.030,.040)
	Chrome Piston Ring	2C4205	015 44 N0	(.020,.030,.040,.060)
	Rod Bearing	BB625J	014 PS 18194	(Std, 010, 020, 030)
	Main Bearing	BC380J	014 HS 18998	(Std, 010, 020, 030)
	Cam Bearing	F-47B	014 BS 19542	(Std.)
11	2.9 - (177) 1986-92 (OHV) - V6 93.00mm Bore			
	Cylinder Head	20058	067 95 926	1986-1992
	Cast Piston Ring	4450	015 18 N0	(Std.,.020,.030,.040,.060)
	Moly Piston Ring	2M4450	015 57 N0	(Std.,.020,.030,.040,.060)
	Rod Bearing	BB625J	014 PS 18194	(Std, 010, 020, 030)
	Main Bearing	BC380J BC485J	014 HS 18998 014 HS 19577	1986-1989 (Std, 010, 020, 030) 1990-1992 (Std, 010, 020, 030)

Continued On Next Page

Ford (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
11	2.9 - (177) 1986-92 (OHV) - V6 93.00mm Bore (Continued)			
	Cam Bearing	F-47B	014 BS 19542	(Std.)
	Piston	014230	0142300050203	Fixed & offset pin (Std, .50, .75, 1.00mm)

Piston Specifications

Part No.	014230		
Casting No.	93V100		
Clearance	0.0014 in. @ 1.000 in. from the bottom		
Compression Dist.	39.28mm/1.546in		
Head Type	-.30in		
Notes	Fixed & offset pin		
Oversize Available	Std, .50, .75, 1.00mm		
Pin Size - mm (in)	24.000x70.6 (.9449x2.78)		
Ring Size (mm)	1@1.6, 1@1.75, 1@3.5		
Std. Cyl. Diameter	93.045 (3.663)	014230	

12	3.0 - (183) 1986-00 (OHV) - V6 89.00mm Bore		
	Cast Piston Ring	5762	015 46 N0 Exc. OHC engs. (Std.,.020,.030,.040)
	Moly Piston Ring	2M5762	015 47 N0 Exc. OHC engs. (Std.,.020,.030,.040)
	Rod Bearing	BB629J	014 PS 18984 1986-1999 Exc. OHC engs. (Std, 010, 020, 030)
	Main Bearing	BC384J	014 HS 19000 1986-1999 Exc. OHC engs. (Std, 010, 020, 030)
	Cam Bearing	F-48	014 NB 19591 Exc. OHC engs. (Std.)

13	3.3 - (200) 1963-83 (OHV) - 6 Cylinder 3.680" Bore		
	Cast Piston Ring	586	015 19 N0 (.020,.030,.040)
	Moly Piston Ring	2M586	015 48 N0 (Std.,.020,.030,.040,.060)
	Rod Bearing	BB606J	014 PS 18975 (Std, 010, 020, 030)
	Main Bearing	BC309J	014 HS 18993 1965-1983 Engs w/7 mains (Std, 010, 020, 030)
	Cam Bearing	F-32	513 NB 19589 (Std.)

14	3.8 - (232) 1982-00 (OHV) - V6 96.80mm Bore		
	Cast Piston Ring	4262	015 20 N0 1988-1995 Exc. supercharged (Std.,.020,.030,.040)
	Moly Piston Ring	2M5649 2M4262 2M4885	015 49 N0 1982-1987 (.020,.030,.040) 015 50 N0 1988-1995 Exc. Supercharged (Std.,.020,.030,.040) 1996-1998
	Rod Bearing	BB626J BB4500J	014 PS 18982 1982-1995 0.661" wide, Exc. Supercharged (Std, 010, 020, 030) 014PS19703 1996-1999 (Std, 010, 020, 030)
	Main Bearing	BC382J BC7086J BC7295J	014 HS 18999 1982-1988 (Std, 010, 020, 030) 014 HS 19707 1989-1995 With Supercharger (Std, 010, 020, 030) 014 HS 19708 1989-1999 Exc. Supercharged (Std, 010, 020, 030)
	Cam Bearing	FG-51 F-45 F-52	014 BS 19549 Aux. Shaft set (Std.) 014 BS 19541 1982-1987 (Std.) 014 BS 19545 1988-2000 (Std.)

15	3.9 - (240) 1965-74 (OHV) - 6 Cylinder 4.000" Bore		
	Cast Piston Ring	592	015 21 N0 (.020,.030,.040)
	Moly Piston Ring	2M592	015 51 N0 (Std.,.020,.030,.040,.060)
	Rod Bearing	BB609J	014 PS 18978 (Std, 010, 020, 030)
	Main Bearing	BC305J	014 HS 18989 (Std, 010, 020, 030, 040)
	Cam Bearing	F-23A F-23B	014 BS 19537 (Std.) 014 NB 19588 Special Oil Control Set (Std.)

16	3.9 -A (240) 2000-02 (DOHC) - V8 3.38 Bore		
	Piston	015210	015210 Lincoln LS (Std., .1, .50, .75, 1.00mm)

17	4.0 -X (244) 1990-01 (OHV) - V6 100.40mm Bore		
	Cylinder Head	20070 20059	067 50 913 1990-1994 067 96 437 1995-2000
	Moly Piston Ring	01444N	014 44 N0 (Std.,.020,.030,.040)
	Rod Bearing	BB625J	014 PS 18194 1990-1999 (Std, 010, 020, 030)
	Main Bearing	BC485J	014 HS 19577 1990-2000 (Std, 010, 020, 030)
	Cam Bearing	F-50 F-50A FG-53	014 BS 19544 1990-1999 (Std.) 014 NB 19593 1990-1999 Special Wide #4 Bearing (Std.) 014 NB 19596 1990-1999 Aux. Shaft set (Std.)
	Continued On Next Page		

Ford (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
17	4.0 -X (244) 1990-01 (OHV) - V6 100.40mm Bore <i>(Continued)</i>			
	Piston	014440 015110	0144400050203 015110	1990-1994 Fixed & offset pin (Std, .50, .75, 1.00mm) 1995-1997 Dished Top (Std, .50, .75, 1.00mm)

Piston Specifications

Part No.	014440		Part No.	015110	
Casting No.	100V21		Casting No.	100V33	
Clearance	0.0012 in. @ 0.500 in. from the bottom		Clearance	0.0014 in. @ 0.394 in. from the bottom	
Compression Dist.	37.12mm/1.461in		Compression Dist.	36.90mm/1.453in	
Head Type	-.315in		Head Type	-.326in	
Notes	Fixed & offset pin		Notes	Check For Availability	
Oversize Available	Std, .50, .75, 1.00mm		Oversize Available	Std, .50, .75, 1.00mm	
Pin Size - mm (in)	24.000x72.0 (.9449x3.07)		Pin Size - mm (in)	24.000x72.0 (.9449x2.835)	
Ring Size (mm)	1@1.6, 1@1.75, 1@3.5		Ring Size (mm)	1@1.6, 1@1.75, 1@3.5	
Std. Cyl. Diameter	100.435 (3.954)	014440	Std. Cyl. Diameter	100.40 (3.95)	015110

18 4.0 -E (244) 1997-01 (SOHC) - V6 100.40mm Bore

	Piston	015100	015100	1997-2001 Flat Top (Std, .50, .75, 1.00mm)
--	--------	---------------	--------	--

Piston Specifications

Part No.	015100		
Casting No.	100V32		
Clearance	0.0014 in @ 0.394 in from the bottom		
Compression Dist.	36.70mm/1.445in		
Head Type	Flat		
Notes	Check For Availability		
Oversize Available	Std, .50, .75, 1.00mm		
Pin Size - mm (in)	24.000x72.0 (.9449x2.835)		
Ring Size (mm)	1@1.6, 1@1.75, 1@3.5		
Std. Cyl. Diameter	100.435 (3.954)	015100	

19 4.1 - (250) 1969-80 (OHV) - 6 Cylinder 3.680" Bore

Cast Piston Ring	586	015 19 N0	(.020,.030,.040)
Moly Piston Ring	2M586	015 48 N0	(Std,.020,.030,.040,.060)
Rod Bearing	BB606J	014 PS 18975	(Std, 010, 020, 030)
Main Bearing	BC305J	014 HS 18989	(Std, 010, 020, 030, 040)
Cam Bearing	F-32	513 NB 19589	(Std.)

20 4.2 -2 (256) 1997-01 (OHV) Gas - V6 3.812" Bore

Moly Piston Ring	2M4885		
Rod Bearing	BB4500J	014PS19703	1997-1998 (Std, 010, 020, 030)
Piston	015090	015090	

Piston Specifications

Part No.	015090		
Notes	Check For Availability		
Std. Cyl. Diameter	96.8 (3.812)	015090	

21 4.6 -V (281) 1993-00 (DOHC) - V8 90.2mm Bore

Rod Bearing	BB317J BB318J	014 PS 18972 014 PS 18973	Std. OD (Std, 010, 020, 030) 0.003" O.S. OD (Std, 010, 020, 030)
Cam Bearing	FA-4	014 BS 19548	1993-1996 OHC Half Shell Set (Std.)

22 4.6 -W,6,9 (281) 1991-03 (SOHC) - V8 90.2mm Bore

Moly Piston Ring	01497N 01496N	014 97 N0 014 96 N0	1991-1998 Romeo - Deep top ring groove 3.825mm/.151" (Std,.020,.030,.040) 1991-2003 Windsor - Shallow top ring groove 3.325mm/.131" (Includes P.I.) (Std,.020,.030,.040)
Rod Bearing	BB317J BB318J	014 PS 18972 014 PS 18973	1991-2000 Std. OD (Std, 010, 020, 030) 1991-2000 0.003" O.S. OD (Std, 010, 020, 030)

Continued On Next Page

Ford (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
22	4.6 -W,6,9 (281) 1991-03 (SOHC) - V8 90.2mm Bore	<i>(Continued)</i>		
	Main Bearing	BC469J	014 HS 19001	1991-1992 Romeo W/full flanged thrust bearing (Std, 010, 020, 030)
	Cam Bearing	FA-3	014 BS 19547	1991-1999 SOHC Half Shell Set (Std.)
	Piston	014960	0149600030203	1991-1998 Windsor - Shallow top ring groove 3.325mm/.131" (Floating pin) Exc. P.I. (Std, .50, .75, 1.00mm)
		014970	0149700050203	1991-1998 Romeo - Deep top ring groove 3.825mm/.151" (Fixed pin) Exc. P.I. (Std, .50, .75, 1.00mm)
		015580	0155800030203	1999-2003 P.I. (Power Improved Version) use 01496N rings (Std, .1, .25, .50, .75mm)

Piston Specifications

Part No.	014960		Part No.	014970	
Casting No.	90L77		Casting No.	90L77A6	
Clearance	0.0014 in. @ 0.354 in. from the bottom		Clearance	0.0014 in. @ 0.354 in. from the bottom	
Compression Dist.	31.00mm/1.22in		Compression Dist.	31.00mm/1.22in	
Head Type	-.16in		Head Type	-.16in	
Notes	Floating & offset pin		Notes	Fixed & offset pin	
Oversize Available	Std, .50, .75, 1.00mm		Oversize Available	Std, .50, .75, 1.00mm	
Pin Size - mm (in)	22.000x61.8 (.866x2.434)		Pin Size - mm (in)	22.000x61.8 (.866x2.434)	
Ring Size (mm)	2@1.5, 1@3.0		Ring Size (mm)	2@1.5, 1@3.0	
Std. Cyl. Diameter	90.215 (3.552)	014960	Std. Cyl. Diameter	90.215 (3.55)	014970
Part No.	015580				
Casting No.	90L90				
Clearance	0.0014 in. @ 0.354 in. from the bottom				
Compression Dist.	30.75mm/1.21in				
Head Type	-.193in				
Notes	Check For Availability				
Oversize Available	Std, .1, .25, .50, .75mm				
Pin Size - mm (in)	22.000x61.8 (.866x2.434)				
Ring Size (mm)	2@1.5, 1@3.0				
Std. Cyl. Diameter	90.210 (3.552)	015580			

23	4.7 - (289) 1963-68 (OHV) - V8 4.000" Bore			
	Cast Piston Ring	139	513 82 N0	(.020,.030,.040,.060)
	Moly Piston Ring	2M139	513 83 N0	(Std.,.020,.030,.040,.060,.080)
	Rod Bearing	BB214J	014 PS 18970	(Std, 010, 020, 030)
		BB214JH	791 PS 19632	Premium bearing set
	Main Bearing	BC240J	014 HS 18986	(Std, 010, 020, 030)
		BC240JH	791 HS 19639	Premium bearing set
	Cam Bearing	F-18	014 BS 19536	(Std.)
24	4.9 - (300) 1965-97 (OHV) - 6 Cylinder 4.000" Bore			
	Cast Piston Ring	592	015 21 N0	(.020,.030,.040)
	Moly Piston Ring	2M592	015 51 N0	(Std.,.020,.030,.040,.060)
	Rod Bearing	BB609J	014 PS 18978	(Std, 010, 020, 030)
	Main Bearing	BC305J	014 HS 18989	(Std, 010, 020, 030, 040)
	Cam Bearing	F-23A	014 BS 19537	1965 To 6/4/85 (Std.)
		F-23B	014 NB 19588	1965 To 6/4/85 Special Oil Control Set (Std.)
		F-49	014 BS 19543	1985 From 6/4/85 (Std.)
		F-49B	014 NB 19592	1985 From 6/4/85 Special Oil Control Set (Std.)
25	5.0 - (302) 1968-00 (OHV) - V8 4.000" Bore			
	Cast Piston Ring	139	513 82 N0	1968-1986 (.020,.030,.040,.060)
		4346	015 52 N0	1986-1995 (.030,.040,.060)
	Moly Piston Ring	2M139	513 83 N0	1968-1986 (Std.,.020,.030,.040,.060,.080)
		2M4346	015 53 N0	1986-1995 (Std.,.020,.030,.040,.060)
	Rod Bearing	BB214J	014 PS 18970	(Std, 010, 020, 030)
		BB214JH	791 PS 19632	Premium bearing set
	Main Bearing	BC240J	014 HS 18986	(Std, 010, 020, 030)
		BC240JH	791 HS 19639	Premium bearing set
	Cam Bearing	F-18	014 BS 19536	1968-1999 (Std.)
26	5.4 -L (330) 1997-00 (SOHC) Truck - V8 90.2mm Bore			
	Moly Piston Ring	01496N	014 96 N0	Fits 014990 & 015590 (Std.,.020,.030,.040)
	Rod Bearing	BB317J	014 PS 18972	Std. OD (Std, 010, 020, 030)
	<i>Continued On Next Page</i>			

Ford (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
26	5.4 -L (330) 1997-00 (SOHC) Truck - V8 90.2mm Bore <i>(Continued)</i>			
	Rod Bearing	BB318J	014 PS 18973	0.003" O.S. OD (Std, 010, 020, 030)
	Piston	014990	0149900030203	1997-2000 Floating & offset pin - Except Power Improved Version (Std, .50, .75, 1.00mm)
		015590	015590	1999-2000 Power Improved Version

Piston Specifications

Part No.	014990		Part No.	015590	
Casting No.	90L80		Casting No.	90L91	
Clearance	0.0014 in. @ 0.354 in. from the bottom		Clearance	0.0014 in. @ 0.354 in. from the bottom	
Compression Dist.	31.00mm/1.22in		Compression Dist.	30.75mm/1.21in	
Head Type	-.069in		Head Type	-.136in	
Notes	Floating & offset pin		Notes	Check For Availability	
Oversize Available	Std, .50, .75, 1.00mm		Oversize Available	Std, .50, .75, 1.00mm	
Pin Size - mm (in)	22.000x61.8 (.866x2.434)		Pin Size - mm (in)	22.000x61.8 (.866x2.434)	
Ring Size (mm)	2@1.5, 1@3.0		Ring Size (mm)	2@1.5, 1@3.0	
Std. Cyl. Diameter	90.215 (3.552)		Std. Cyl. Diameter	90.210 (3.552)	

27 5.4 - (330) 1964-78 (OHV) Truck - V8 3.875" Bore

Cast Piston Ring	591	015 22 N0	(.030,.040,.060)
Moly Piston Ring	2M591	015 54 N0	(.030,.040,.060)
Rod Bearing	BB603J	014 PS 18974	(Std, 010, 020, 030)
Main Bearing	BC303J	014 HS 18988	W/3.824" Dia. Flange (Std, 010, 020, 030)
Cam Bearing	F-33	014 BS 19539	(Std.)

28 5.4 -A (330) 1999-01 (DOHC) 4 Valve - V8 90.2mm Bore

Moly Piston Ring	01496N	014 96 N0	(Std.,.020,.030,.040)
Piston	015120	015120	(Std, .1, .25, .50, .75mm)

Piston Specifications

Part No.	015120		
Casting No.	90L92		
Clearance	0.0014 in. @ 0.354 in. from the bottom		
Compression Dist.	30.57mm/1.204in		
Head Type	Flat		
Notes	Check For Availability		
Oversize Available	Std, .1, .25, .50, .75mm		
Pin Size - mm (in)	22.000x61.8 (.866x2.434)		
Ring Size (mm)	2@1.5, 1@3.0		
Std. Cyl. Diameter	90.2 (3.55)		

29 5.8 - (351) 1975-82 (OHV) Modified - V8 4.000" Bore

Cast Piston Ring	139	513 82 N0	(.020,.030,.040,.060)
Moly Piston Ring	2M139	513 83 N0	(Std.,.020,.030,.040,.060,.080)
Rod Bearing	BB607J	014 PS 18976	(Std, 010, 020, 030)
	BB607JH	791 PS 19635	Premium bearing set
Main Bearing	BC307J	014 HS 18991	1975-1976 (Std, 010, 020, 030)
	BC307JH	791 HS 19643	1975-1976 Premium bearing set
	BC306J	014 HS 18990	1977-1982 (Std, 010, 020, 030)
	BC306JH	791 HS 19642	1977-1982 Premium bearing set
Cam Bearing	F-26	599 BS 19538	(Std.)

30 5.8 - (351) 1970-74 (OHV) Cleveland - V8 4.000" Bore

Cast Piston Ring	139	513 82 N0	(.020,.030,.040,.060)
Moly Piston Ring	2M139	513 83 N0	(Std.,.020,.030,.040,.060,.080)
Rod Bearing	BB607J	014 PS 18976	(Std, 010, 020, 030)
	BB607JH	791 PS 19635	Premium bearing set
Cam Bearing	F-26	599 BS 19538	(Std.)

31 5.8 - (351) 1969-91 (OHV) Windsor - V8 4.000" Bore

Cast Piston Ring	139	513 82 N0	(.020,.030,.040,.060)
Moly Piston Ring	2M139	513 83 N0	(Std.,.020,.030,.040,.060,.080)
Rod Bearing	BB608J	014 PS 18977	(Std, 010, 020, 030)
	BB608JH	791 PS 19636	Premium bearing set
Main Bearing	BC307J	014 HS 18991	1969-1976 (Std, 010, 020, 030)
	BC307JH	791 HS 19643	1969-1976 Premium bearing set

Continued On Next Page

Ford (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
31	5.8 - (351) 1969-91 (OHV) Windsor - V8 4.000" Bore <i>(Continued)</i>			
	Main Bearing	BC306J BC306JH	014 HS 18990 791 HS 19642	1977-1991 (Std, 010, 020, 030) 1977-1991 Premium bearing set
	Cam Bearing	F-18	014 BS 19536	(Std.)
32	5.8 - (359) 1973-78 (OHV) - V8 4.050" Bore			
	Cast Piston Ring	5485	015 23 N0	(.030,.040,.060)
	Moly Piston Ring	2M5485	015 55 N0	(.020,.030,.040,.060,.080)
	Rod Bearing	BB603J	014 PS 18974	(Std, 010, 020, 030)
	Main Bearing	BC303J	014 HS 18988	W/3.824" Dia. Flange (Std, 010, 020, 030)
	Cam Bearing	F-33	014 BS 19539	(Std.)
33	5.8 - (360) 1968-76 (OHV) - V8 4.050" Bore			
	Cast Piston Ring	574	015 24 N0	(.020,.030,.040,.060)
	Moly Piston Ring	2M574	015 56 N0	(Std.,.020,.030,.040,.060)
	Rod Bearing	BB603J	014 PS 18974	(Std, 010, 020, 030)
	Main Bearing	BC303J	014 HS 18988	W/3.824" Dia. Flange (Std, 010, 020, 030)
	Cam Bearing	F-33	014 BS 19539	(Std.)
34	5.9 - (361) 1964-78 (OHV) - V8 4.050" Bore			
	Cast Piston Ring	5485	015 23 N0	(.030,.040,.060)
	Moly Piston Ring	2M5485	015 55 N0	(.020,.030,.040,.060,.080)
	Rod Bearing	BB603J	014 PS 18974	(Std, 010, 020, 030)
	Main Bearing	BC303J	014 HS 18988	W/3.824" Dia. Flange (Std, 010, 020, 030)
	Cam Bearing	F-33	014 BS 19539	(Std.)
35	6.1 - (370) 1979-91 (OHV) - V8 4.050" Bore			
	Moly Piston Ring	2M5485	015 55 N0	(.020,.030,.040,.060,.080)
	Rod Bearing	BB618J	014 PS 18980	(Std, 010, 020, 030)
	Main Bearing	BC341J	014 HS 18995	(Std, 010, 020, 030)
	Cam Bearing	F-30	014 NS 19613	(Std.)
36	6.3 - (389) 1975-78 (OHV) - V8 4.050" Bore			
	Cast Piston Ring	5485	015 23 N0	(.030,.040,.060)
	Moly Piston Ring	2M5485	015 55 N0	(.020,.030,.040,.060,.080)
	Rod Bearing	BB603J	014 PS 18974	(Std, 010, 020, 030)
	Main Bearing	BC303J	014 HS 18988	W/3.824" Dia. Flange (Std, 010, 020, 030)
	Cam Bearing	F-33	014 BS 19539	(Std.)
37	6.4 - (390) 1964-76 (OHV) - V8 4.050" Bore			
	Cast Piston Ring	574	015 24 N0	(.020,.030,.040,.060)
	Moly Piston Ring	2M574	015 56 N0	(Std.,.020,.030,.040,.060)
	Rod Bearing	BB603J	014 PS 18974	(Std, 010, 020, 030)
	Main Bearing	BC303J	014 HS 18988	W/3.824" Dia. Flange (Std, 010, 020, 030)
	Cam Bearing	F-33	014 BS 19539	(Std.)
38	6.4 - (391) 1964-78 (OHV) - V8 4.050" Bore			
	Cast Piston Ring	5485	015 23 N0	(.030,.040,.060)
	Moly Piston Ring	2M5485	015 55 N0	(.020,.030,.040,.060,.080)
	Rod Bearing	BB603J	014 PS 18974	(Std, 010, 020, 030)
	Main Bearing	BC303J	014 HS 18988	W/3.824" Dia. Flange (Std, 010, 020, 030)
	Cam Bearing	F-33	014 BS 19539	(Std.)
39	6.6 - (400) 1971-82 (OHV) - V8 4.000" Bore			
	Cast Piston Ring	139	513 82 N0	(.020,.030,.040,.060)
	Moly Piston Ring	2M139	513 83 N0	(Std.,.020,.030,.040,.060,.080)
	Rod Bearing	BB607J BB607JH	014 PS 18976 791 PS 19635	(Std, 010, 020, 030) Premium bearing set
	Main Bearing	BC307J BC307JH BC306J BC306JH	014 HS 18991 791 HS 19643 014 HS 18990 791 HS 19642	1971-1976 (Std, 010, 020, 030) 1971-1976 Premium bearing set 1977-1982 (Std, 010, 020, 030) 1977-1982 Premium bearing set
	Cam Bearing	F-26	599 BS 19538	(Std.)
40	6.8 -S (415) 1997-00 (SOHC) - V10 3.550" Bore			
	Moly Piston Ring	2M4814	01496N0	(.020,.030,.040)
	Piston	014990 015590	0149900030203 015590	Floating & offset pin (Std, .50, .75, 1.00mm) 1999-2000 Power Improved Version

Ford (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
40	6.8 -S (415) 1997-00 (SOHC) - V10 3.550" Bore (Continued)			
Piston Specifications				
Part No.	014990		Part No.	015590
Casting No.	90L80		Casting No.	90L91
Clearance	0.0014 in. @ 0.354 in. from the bottom		Clearance	0.0014 in. @ 0.354 in. from the bottom
Compression Dist.	31.00mm/1.22in		Compression Dist.	30.75mm/1.21in
Head Type	-.069in		Head Type	-.136in
Notes	Floating & offset pin		Notes	Check For Availability
Oversize Available	Std. .50, .75, 1.00mm		Oversize Available	Std. .50, .75, 1.00mm
Pin Size - mm (in)	22.000x61.8 (.866x2.434)		Pin Size - mm (in)	22.000x61.8 (.866x2.434)
Ring Size (mm)	2@1.5, 1@3.0		Ring Size (mm)	2@1.5, 1@3.0
Std. Cyl. Diameter	90.215 (3.552)	014990	Std. Cyl. Diameter	90.210 (3.552)
41	6.9 - (420) 1984-87 (OHV) Navistar Diesel - V8 4.000" Bore			
	Moly Piston Ring	14411N	144 11 N0	Use with 144110, 144111, 144111HA (Std.,.020,.030,.040)
	Rod Bearing	BB308J	144 PS 19245	(Std, 010, 020, 030)
	Main Bearing	BC488J	089 HS 18515	(Std, 010, 020, 030)
	Cam Bearing	IN-17	014 NS 19612	(Std.)
	Piston	144110	1441100030203	Flat top W/6.64cc Ricardo cup, Ni Resist ring carrier (Std, .020, .030, .040in)
		144110WR	1441100020303	Same as 144110 except with rings
		144111	1441110030203	Flat top W/6.64cc Ricardo cup, Ni Resist ring carrier. Note: This piston has reduced compression hgt by .010" to allow block milling. (Std, .020, .030, .040in)
		144111HA	1441113030203	Flat top W/6.64cc Ricardo cup, Ni Resist ring carrier. Note: This piston has reduced compression hgt by .010" to allow block milling & has a hard anodized crown. It is offered for use in aftermarket turbo engines only. (Std, .020, .030, .040in)
		144111HAWR	1441133020303	Same as 144111HA except with rings
		144111WR	1441110020303	Same as 144111 except with rings
Piston Specifications				
Part No.	144110		Part No.	144110WR
Casting No.	101L26		Notes	Same As 144110 Except With Rings
Clearance	0.0060 in. @ 1.000 in. from the bottom			
Compression Dist.	49.39mm/1.944in			
Head Type	Flat			
Notes				
Oversize Available	Std. .020, .030, .040in			
Pin Size - mm (in)	28.194x68.6 (1.11x2.702)			
Ring Size (mm)	2@2.0, 1@2.8	144110		144110WR
Std. Cyl. Diameter	101.600 (4.000)			
Part No.	144111		Part No.	144111HA
Casting No.	101L26		Casting No.	101L26
Clearance	0.0060 in. @ 1.000 in. from the bottom		Clearance	0.0060 in. @ 1.000 in. from the bottom
Compression Dist.	49.12mm/1.934in		Compression Dist.	49.13mm/1.934in
Head Type	Flat		Head Type	Flat
Notes	Topped		Notes	Topped
Oversize Available	Std. .020, .030, .040in		Oversize Available	Std. .020, .030, .040in
Pin Size - mm (in)	28.194x68.6 (1.11x2.702)		Pin Size - mm (in)	28.194x68.6 (1.11x2.702)
Ring Size (mm)	2@2.0, 1@2.8	144111	Ring Size (mm)	2@2.0, 1@2.8
Std. Cyl. Diameter	101.600 (4.000)		Std. Cyl. Diameter	101.600 (4.000)
Part No.	144111HAWR		Part No.	144111WR
Notes	Same As 144111HA Except With Rings		Notes	Same As 144111 Except With Rings
			144111HAWR	
42	7.0 - (429) 1968-97 (OHV) - V8 4.360" Bore			
	Cast Piston Ring	598	015 27 N0	1968-1973 (.020,.030,.040,.060)
		5621	015 13 N0	1979-1994 (Std.,.020,.030,.040,.060)
		4740	015 15 N0	1992-1995 Shallow oil ring groove (Std.,.020,.030,.040,.060)
	Continued On Next Page			

Ford (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
42	7.0 - (429) 1968-97 (OHV) - V8 4.360" Bore (Continued)			
	Moly Piston Ring	2M598 2M5621 2M4740	015 28 N0 015 29 N0 015 30 N0	1968-1973 (.020,.030,.040,.060) 1979-1994 (.020,.030,.040,.060) 1992-1995 Shallow oil ring groove (.020,.030,.040,.060)
	Rod Bearing	BB618J	014 PS 18980	(Std, 010, 020, 030)
	Main Bearing	BC341J	014 HS 18995	(Std, 010, 020, 030)
	Cam Bearing	F-30	014 NS 19613	(Std.)
43	7.3 - (445) 1988-94 (OHV) Navistar Diesel Non-Turbo - V8 4.110" Bore			
	Moly Piston Ring	14417N	144 17 N0	(Std.,.020,.030,.040)
	Rod Bearing	BB308J	144 PS 19245	(Std, 010, 020, 030)
	Main Bearing	BC488J	089 HS 18515	(Std, 010, 020, 030)
	Cam Bearing	IN-17	014 NS 19612	(Std.)
	Piston	144170	1441700030203	Flat top W/6.7cc Ricardo cup, Ni Resist ring carrier. (Std, .020, .030, .040in)
		144170HA	1441732030203	Flat top W/6.7cc Ricardo cup, Ni Resist ring carrier, Hard anodized crown. (Std, .020, .030, .040in)
		144170HAWR	1441732020303	Same as 144170HA except with rings
		144170WR	1441700020303	Same as 144170 except with rings
		144171	1441710030203	Reduced compression, Flat top W/6.7cc Ricardo cup, Ni Resist ring carrier, Note: This piston has reduced compression hgt. by .010" to allow block milling. (Std, .020, .030, .040in)
		144171HA	1441720030203	Reduced compression, Flat top W/6.7cc Ricardo cup, Ni Resist ring carrier, Hard anodized crown. Note: This piston has reduced compression hgt by .010" to allow block milling. It is offered for use in aftermarket turbo applications only. (Std, .020, .030, .040in)
		144171HAWR	1441720020303	Same as 144171HA except with rings
		144171WR	1441710020303	Same as 144171 except with rings

Piston Specifications

Part No.	144170		Part No.	144170HA	
Casting No.	104L32		Casting No.	104L32	
Clearance	0.0050 in. @ 1.150 in. from the bottom		Clearance	0.0050 in. @ 1.150 in. from the bottom	
Compression Dist.	49.53mm/1.950in		Compression Dist.	49.53mm/1.950in	
Head Type	Flat		Head Type	Flat	
Notes			Notes		
Oversize Available	Std, .020, .030, .040in		Oversize Available	Std, .020, .030, .040in	
Pin Size - mm (in)	28.204x68.9 (1.11x2.715)		Pin Size - mm (in)	28.204x68.9 (1.11x2.715)	
Ring Size (mm)	1@3.0, 1@2.0, 1@3.5		Ring Size (mm)	1@3.0, 1@2.0, 1@3.5	
Std. Cyl. Diameter	104.400 (4.110)	144170	Std. Cyl. Diameter	104.400 (4.110)	144170HA
Part No.	144170HAWR		Part No.	144170WR	
Notes	Same As 144170HA Except With Rings		Notes	Same As 144170 Except With Rings	
		144170HAWR			144170WR
Part No.	144171		Part No.	144171HA	
Casting No.	104L32		Casting No.	104L32	
Clearance	0.0050 in. @ 1.150 in. from the bottom		Clearance	0.0050 in. @ 1.150 in. from the bottom	
Compression Dist.	49.28mm/1.940in		Compression Dist.	49.28mm/1.940in	
Head Type	Flat		Head Type	Flat	
Notes	Topped		Notes	Topped	
Oversize Available	Std, .020, .030, .040in		Oversize Available	Std, .020, .030, .040in	
Pin Size - mm (in)	28.204x68.9 (1.11x2.715)		Pin Size - mm (in)	28.204x68.9 (1.11x2.715)	
Ring Size (mm)	1@3.0, 1@2.0, 1@3.5		Ring Size (mm)	1@3.0, 1@2.0, 1@3.5	
Std. Cyl. Diameter	104.400 (4.110)	144171	Std. Cyl. Diameter	104.400 (4.110)	144171HA

Ford (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
43	7.3 - (445) 1988-94 (OHV) Navistar Diesel Non-Turbo - V8 4.110" Bore (Continued)			

Piston Specifications

Part No. Notes	144171HAWR Same As 144171HA Except With Rings		Part No. Notes	144171WR Same As 144171 Except With Rings	
		144171HAWR			144171WR

44 7.3 - (445) 1994-95 (OHV) Navistar Diesel Turbo - V8 4.110" Bore

Moly Piston Ring	14418N	144 18 N0	Use with 144180HA & 144181HA (Std.,.020,.030,.040)
Rod Bearing	BB259J	144 PS 19693	1994-1995 (Std.,.010,.020,.030)
Main Bearing	BC036J	144 HS 19669	1994-1995 (Std, 010, 020, 030)
Piston	144180HA	1441800030203	Factory IDI Turbo, Big pin, hard anodized crown. , Ni Resist ring carrier. (Std, .020, .030, .040in)
	144180HAWR	1441800020303	Same as 144180HA except with rings
	144181HA	1441810030203	Factory IDI Turbo, Big pin, hard anodized crown., Ni Resist ring carrier, reduced compression. Note: This piston has reduced compression hgt by .010" to allow block milling. (Std, .020, .030, .040in)
	144181HAWR	1441810020303	Same as 144181HA except with rings

Piston Specifications

Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	144180HA 104L33 0.0060 in. @ 1.000 in. from the bottom 49.53mm/1.950in Flat Big pin,keystone top ring Std, .020, .030, .040in 33.2x68.8 (1.3085x2.709) 1@3.16 ,1@2.52 ,1@3.5 104.400 (4.110)		Part No. Notes	144180HAWR Same As 144180HA Except With Rings	
		144180HA			144180HAWR
Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	144181HA 104L33 0.0060 in. @ 1.000 in. from the bottom 49.28mm/1.940in Flat Topped, keystone top ring Std, .020, .030, .040in 33.2x68.8 (1.3085x2.709) 1@3.16 ,1@2.52 ,1@3.5 104.400 (4.110)		Part No. Notes	144181HAWR Same As 144181HA Except With Rings	
		144181HA			144181HAWR

45 7.3 - (445) 1996-03 (OHV) Navistar Diesel Turbo - V8 4.110" Bore

Moly Piston Ring	14420N	144 20 N0	1996-1998 Use with 144200, 144201 & 144202 (Std.,.020,.030,.040)
Rod Bearing	BB259J	144 PS 19693	1996-1998 (Std,.010,.020,.030)
Main Bearing	BC036J	144 HS 19669	1996-1998 (Std, 010, 020, 030)
Piston	144200	1442000030203	1996-1998 Factory DI Turbo, Ni Resist ring carrier, Reentrant bowl type (Std, .020, .030, .040in)
	144200WR	1442000020303	1996-1998 Same as 144200 except with rings
	144201	1442010030203	1996-1998 Factory DI Turbo, Ni Resist ring carrier, Reentrant bowl type, reduced compression. Note: This piston has reduced compression hgt by .010" to allow block milling. (Std, .020, .030, .040in)
	144201WR	1442010020303	1996-1998 Same as 144201 except with rings
	144190	1441900030203	1999-2003 (.020, .030)
	144191	1441910030203	1999-2003 This piston has reduced compression height by .010" to allow for block milling (.020, .030)

Ford (Continued)

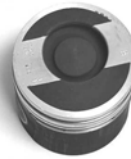
Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description	
45	7.3 - (445) 1996-03 (OHV) Navistar Diesel Turbo - V8 4.110" Bore (Continued)				
Piston Specifications					
Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	144200 104L34 0.0055 in. @ 0.850 in. from the bottom 54.40mm/2.142in Flat Std, .020, .030, .040in 33.2x76.0 (1.3085x2.992) 1@3.0, 1@2.0, 1@3.5 104.400 (4.110)	 144200	Part No. Notes 144200WR Same As 144200 Except With Rings	 144200WR	
Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	144201 104L34 0.0055 in. @ 0.850 in. from the bottom 54.15mm/2.132in Flat Topped Std, .020, .030, .040in 33.2x76.0 (1.3085x2.992) 1@3.0, 1@2.0, 1@3.5 104.400 (4.110)	 144201	Part No. Notes 144201WR Same As 144201 Except With Rings	 144201WR	
Part No. Notes	144190 Check For Availability	 144190	Part No. Notes 144191 Check For Availability	 144191	

46	7.5 - (460) 1968-98 (OHV) - V8 4.360" Bore			
	Cast Piston Ring	4740 598	015 15 N0 015 27 N0	1992-1997 Shallow oil ring groove (Std.,.020,.030,.040,.060) 1974-1998 (.020,.030,.040,.060)
	Moly Piston Ring	2M4740 2M598	015 30 N0 015 28 N0	1992-1997 Shallow oil ring groove (.020,.030,.040,.060) 1974-1998 (.020,.030,.040,.060)
	Rod Bearing	BB618J	014 PS 18980	(Std, 010, 020, 030)
	Main Bearing	BC341J	014 HS 18995	(Std, 010, 020, 030)
	Cam Bearing	F-30	014 NS 19613	(Std.)

Ford New Holland

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
6 Cylinder 6.6 (402)		1	6 Cylinder (Continued) 7.8 (474)		2			
Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description				
1	6.6 - (402) Diesel - 6 Cylinder 4.401 Bore							
	Chrome Piston Ring	01494N	014 94 N0	(Std.,.020,.030,.040)				
	Rod Bearing	BB397C BB403C		One shell, Early style (E7HZ-6211)with locking tab closer to outer bearing edge. 12 shells=BB379J set. One shell, Late style (F1HZ-6211) with locking tab further from outer bearing edge.				
	Main Bearing	BC606I BC606S BC607I BC607S		Lower, 6 per engine. Use BC325J for entire engine set. Upper, 6 per engine. Use BC325J for entire engine set. Lower, 1 per engine. Use BC325J for entire engine set. Upper, 1 per engine. Use BC325J for entire engine set.				
	Piston	014940WR 014940	0149400020302 0149400030202	Same as 014940 except with rings 1991-1993 Turbo (Std. .020 .030 .040in)				

Ford New Holland (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
1	6.6 - (402) Diesel - 6 Cylinder 4.401 Bore (Continued)			
Piston Specifications				
Part No. Notes	014940WR Same As 014940 Except With Rings		Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	014940 110L100 0.0053 in. @ 0.625 in. from the bottom 67.93mm/2.675in -.787in Tapered Rods Std. .020, .030, .040in 41.275 (1.625) 1@3.2, 1@2.4, 1@4.7 111.786 (4.401)
		014940WR		 014940

2	7.8 - (474) Diesel - 6 Cylinder 4.401 Bore			
	Chrome Piston Ring	01494N	014 94 N0	(Std., .020, .030, .040)
	Rod Bearing	BB396C		12 shells=BB396J set.
	Main Bearing	BC606I BC606S BC607I BC607S		Lower, 6 per engine. Use BC325J for entire engine set. Upper, 6 per engine. Use BC325J for entire engine set. Lower, 1 per engine. Use BC325J for entire engine set. Upper, 1 per engine. Use BC325J for entire engine set.
	Piston	014950WR 014950	0149500030202 0149500030202	Same as 014950 except with rings 1991-1993 185/240HP Turbo (Std., .020, .030, .040in)

Piston Specifications

Part No. Notes	014950WR Same As 014950 Except With Rings		Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	014950 110L99 0.0053 in. @ 0.625 in. from the bottom 75.50mm/2.973in -.881in Tapered Rods Std., .020, .030, .040in 44.447 (1.750) 1@3.2, 1@2.4, 1@4.7 111.786 (4.401)
		014950WR		 014950

General Motors

Engine			Year	Line	Engine			Year	Line	Engine			Year	Line
4 Cylinder					V6 (Continued)					V8 (Continued)				
1.6 (98) Lemans (SOHC)			1987-93	1	3.4 (207) Minivans (OHV)			1996-01	16	5.3 (323) LM7 (OHV)			1999-02	31
1.8 (112) (OHV)			1982	2	3.5 (212) (DOHC)			1999-02	17	5.4 (327) (OHV)			1962-67	32
1.8 (112) (OHC)			1982-86	3	3.8 (229) Chev. Eng. (OHV)			1980-84	18	5.4 (330) Olds. Eng. (OHV)			1964-67	33
2.0 (121) (Brazilian Eng.) (SOHC)			1987-94	4	3.8 (231) Buick Eng. (OHV)			1975-00	19	5.7 (350) Olds. Eng. (OHV)			1978-85	34
2.0 (121) (OHV)			1982-89	5	4.1 (252) (OHV)			1980-84	20	5.7 (350) Olds. Eng. (OHV)			1968-80	35
2.2 (134) (OHV)			1990-02	6	V8					5.7 (350) Chev. Eng. (OHV)			1967-02	36
2.5 (151) (OHV)			1977-93	7	4.1 (252) (OHV)			1982-88	21	6.0 (366) Truck (OHV)			1966-97	37
2.5 (153) (OHV)			1962-70	8	4.3 (260) Olds. Eng. (OHV)			1975-82	22	6.2 (379) (OHV)			1982-95	38
V6					V6					6.5 (395) (OHV)			1992-00	39
2.8 (173) (OHV)			1980-93	9	4.3 (262) Chev. Eng. (OHV)			1985-00	23	6.5 (396) (OHV)			1965-70	40
3.0 (181) (OHV)			1982-88	10	V8					6.6 (400) Chev. Eng. - Small Block (OHV)			1970-80	41
3.1 (189) (OHV)			1988-99	11	4.4 (267) Chev. Eng. (OHV)			1979-82	24	6.6 (400) Olds. Eng. (OHV)			1965-69	42
3.1 (189) LG8 (OHV)			2000-01	12	4.5 (273) (OHV)			1988-92	25	6.6 (400) Olds. Eng. (OHV)			1965-69	42
3.3 (200) (OHV)			1978-79	13	4.6 (283) (OHV)			1957-67	26	6.6 (402) Chev. Eng. - Big Block (OHV)			1970-72	43
3.4 (207) Camaro, Firebird (OHV)			1993-95	14	4.9 (300) (OHV)			1991-95	27	6.6 (403) Olds. Eng. (OHV)			1977-79	44
3.4 (207) (DOHC)			1991-97	15	5.0 (305) Chev. Eng. (OHV)			1976-00	28	6.6 (403) Olds. Eng. (OHV)			1977-79	44
					5.0 (307) Olds. Eng. (OHV)			1980-90	29	7.0 (425) Olds. Eng. (OHV)			1965-67	45
					5.0 (307) Chev. Eng. (OHV)			1968-73	30	7.0 (427) (OHV)			1968-97	46
Line No.	Part Title		MAHLE Part No.		SAP Part No.		Description							
1	1.6 -6 (98) 1987-93 (SOHC) Lemans - 4 Cylinder 3.110" Bore													
	Piston		011090#		0110900020303		Fixed & offset pin (Std., .50mm)							

General Motors (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
1	1.6 -6 (98) 1987-93 (SOHC) Lemans - 4 Cylinder 3.110" Bore			<i>(Continued)</i>

Piston Specifications

Part No.	011090		011090
Casting No.	79V82		
Clearance	0.0008 in. @ 0.315 in. from the bottom		
Compression Dist.	28.00mm/1.102in		
Head Type	-.154in		
Notes	Fixed & offset pin		
Oversize Available	Std., .50mm		
Pin Size - mm (in)	18.000x55.0 (.709x2.165)		
Ring Size (mm)	1@1.2, 1@1.5, 1@3.0		
Std. Cyl. Diameter	79.0 (3.11)		

2 1.8 -G (112) 1982 (OHV) - 4 Cylinder 3.504" Bore

Rod Bearing	BB620J	027 PS 18855	(Std., 010, 020, 030)
Cam Bearing	CH-19	599 NB 19585	(Std.)

3 1.8 -J,O (112) 1982-86 (OHC) - 4 Cylinder 3.339" Bore

Cast Piston Ring	6193	599 67 N0	(.020,.030)
Chrome Piston Ring	2C6193	599 24 N0	(.020,.030,.040)
Rod Bearing	BB479J	011 PS 18724	(Std.,.010,.020,.030)
Main Bearing	BC356J	469 HS 19040	(Std., 010, 020, 030)

4 2.0 -H,K,M (121) 1987-94 (SOHC) (Brazilian Eng.) - 4 Cylinder 3.386" Bore

Moly Piston Ring	2M4601	599 27 N0	Use with 011760 piston (Std.,.020,.030,.040)
Rod Bearing	BB479J	011 PS 18724	(Std.,.010,.020,.030)
Main Bearing	BC356J	469 HS 19040	(Std., 010, 020, 030)
Piston	011760*	0117600050203	1987-1991 Fixed & offset pin, Vin code K non-turbo, use 2M4601 rings (Std., .50, .75, 1.00mm)
	011750#	011750	1992-1994 Vin code H, offset head recess, only available with rings installed (.50, .75, 1.00mm)

Piston Specifications

Part No.	011760		Part No.	011750	
Casting No.	86V80		Casting No.	86V94	
Clearance	0.0008 in. @ 0.315 in. from the bottom		Notes	Piston With Rings	
Compression Dist.	30.00mm/1.181in		Std. Cyl. Diameter	86.000 (3.385)	
Head Type	-.130in				
Notes	Fixed & offset pin				
Oversize Available	Std., .50, .75, 1.00mm				
Pin Size - mm (in)	21.000x61.5 (.827x2.421)				
Ring Size (mm)	2@1.5, 1@3.0				
Std. Cyl. Diameter	86.000 (3.386)				

5 2.0 -B,P,1 (121) 1982-89 (OHV) - 4 Cylinder 3.504" Bore

Cast Piston Ring	6209	599 79 N0	1987-1989 Shallow oil ring groove (Std.,.020,.030,.040)
Moly Piston Ring	2M4256	599 25 N0	1984-1986 Deep oil ring groove (.020,.030,.040)
	2M6169	599 26 N0	1985-1986 Shallow oil ring groove (Std.,.020,.030,.040)
	2M6209	599 28 N0	1987-1989 Shallow oil ring groove (.020,.030,.040)
Rod Bearing	BB620J	027 PS 18855	(Std., 010, 020, 030)
Main Bearing	BC415J	027 HS 18869	1987-1989 (Std., 010, 020, 030)
Cam Bearing	CH-19	599 NB 19585	(Std.)
Piston	027150	0271500050203	1987-1989 (Std., .50, .75, 1.00mm)

Piston Specifications

Part No.	027150		
Casting No.	89V72		
Clearance	0.0015 in. @ 0.500 in. from the bottom		
Compression Dist.	34.0mm/1.339in		
Head Type	-.305in		
Notes	Fixed & offset pin		
Oversize Available	Std., .50, .75, 1.00mm		
Pin Size - mm (in)	20.325x64.5 (.800x2.539)		
Ring Size (mm)	2@1.5, 1@3.0		
Std. Cyl. Diameter	89.000 (3.504)		

General Motors (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
6	2.2 -G,4 (134) 1990-02 (OHV) - 4 Cylinder 3.504" Bore			
	Cast Piston Ring	6209	599 79 N0	(Std.,.020,.030,.040)
	Moly Piston Ring	2M6209	599 28 N0	(.020,.030,.040)
	Rod Bearing	BB620J	027 PS 18855	1990-1999 (Std, 010, 020, 030)
	Main Bearing	BC415J	027 HS 18869	1990-1996 (Std, 010, 020, 030)
	Cam Bearing	CH-19	599 NB 19585	1990-2000 (Std.)
	Piston	027240	0272400050203	1990-1991 (Std, .50, .75, 1.00mm)
		027270	0272700050203	1992-1993 (Std, .50, .75, 1.00mm)
		027280	0272800050203	1994-2002 (Std, .50, .75, 1.00mm)

Piston Specifications

Part No.	027240		Part No.	027270	
Casting No.	89V79		Casting No.	89V85	
Clearance	0.0012 in. @ 0.500 in. from the bottom	027240	Clearance	0.0012 in. @ 0.500 in. from the bottom	
Compression Dist.	30.0mm/1.181in		Compression Dist.	30.1mm/1.185in	
Head Type	-226in		Head Type	-226in	
Notes	Fixed & offset pin		Notes	Fixed & offset pin	
Oversize Available	Std, .50, .75, 1.00mm	027280	Oversize Available	Std, .50, .75, 1.00mm	
Pin Size - mm (in)	20.325x64.5 (.800x2.539)		Pin Size - mm (in)	20.325x64.5 (.800x2.539)	
Ring Size (mm)	2@1.5, 1@3.0		Ring Size (mm)	2@1.5, 1@3.0	
Std. Cyl. Diameter	89.000 (3.504)		Std. Cyl. Diameter	89.000 (3.504)	

7	2.5 - (151) 1977-93 (OHV) - 4 Cylinder 4.000" Bore			
	Cast Piston Ring	5570 5663	599 29 N0 599 68 N0	1977-1980 Deep oil ring groove (Std.,.020,.030,.040) 1982-1993 Shallow oil ring groove (.020,.030,.040)
	Moly Piston Ring	2M5570 2M5663	599 30 N0 599 31 N0	1977-1980 Deep oil ring groove (Std.,.020,.030,.040) 1982-1993 Shallow oil ring groove (Std.,.020,.030,.040)
	Rod Bearing	BB600J	469 PS 19037	(Std, 010, 020, 030)
	Main Bearing	BC297J BC386J	027 HS 18860 469 HS 19042	Exc. Vin Code "U" (Std, 010, 020, 030) Vin Code "U" (Std, 010, 020, 030)
	Cam Bearing	CH-16	599 NB 19583	Exc. Vin Code "U" (Std.)

8	2.5 - (153) 1962-70 (OHV) - 4 Cylinder 3.875" Bore			
	Cast Piston Ring	665	599 22 N0	(.030,.040,.060)
	Moly Piston Ring	2M665	599 23 N0	(.020,.030,.040,.060)
	Rod Bearing	BB620J	027 PS 18855	(Std, 010, 020, 030)
	Main Bearing	BC297J	027 HS 18860	(Std, 010, 020, 030)
	Cam Bearing	CH-6	027 BS 19533	(Std.)

9	2.8 - (173) 1980-93 (OHV) - V6 89.00mm Bore			
	Cast Piston Ring	5632 6194 4456	599 32 N0 599 34 N0 599 69 N0	1981-1984 Deep oil ring groove (.020,.030,.040,.060) 1985-1989 Shallow oil ring groove (Std.,.020,.030,.040) 1987-1993 Shallow oil ring groove (.020,.030,.040)
	Moly Piston Ring	2M5632 2M6194 2M4456	599 33 N0 599 35 N0 599 38 N0	1981-1984 Deep oil ring groove (.020,.030,.040,.060) 1985-1989 Shallow oil ring groove (Std.,.020,.030,.040) 1987-1993 Shallow oil ring groove (Std.,.020,.030,.040)
	Rod Bearing	BB285J	027 PS 18851	(Std, 010, 020, 030, 040)
	Main Bearing	BC378J BC379J	007 HS 18435 007 HS 18933	1980-1985 W/Small Dia. Main Journal (Std, 010, 020, 030) 1985-1993 W/Large Dia. Main Journal (Std, 010, 020, 030)
	Cam Bearing	CH-18 CH-18A	599 BS 19532 599 NB 19584	(Std.) Special Wide #2 & #3 Bearings (Std.)
	Piston	027160	0271600050203	1988-1989 FWD W/Alum Cyl Head, Use 2M4456 ring (Std, .50, .75, 1.00mm)

General Motors (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
9	2.8 - (173) 1980-93 (OHV) - V6 89.00mm Bore <i>(Continued)</i>			

Piston Specifications

Part No.	027160		027160
Casting No.	89V71 A1		
Clearance	0.0015 in. @ 0.625 in. from the bottom		
Compression Dist.	41.1mm/1.618in		
Head Type	-.281in		
Notes	Fixed & offset pin		
Oversize Available	Std. .50, .75, 1.00mm		
Pin Size - mm (in)	22.996x64.0 (.905x2.520)		
Ring Size (mm)	2@1.5, 1@4.0		
Std. Cyl. Diameter	89.025 (3.505)		

10	3.0 - (181) 1982-88 (OHV) - V6 3.800" Bore			
	Cast Piston Ring	5474	599 36 N0	(Std.,.020,.030,.040)
	Moly Piston Ring	2M5474	599 37 N0	(Std.,.020,.030,.040)
	Rod Bearing	BB605J	181 PS 18842	(Std, 010, 020, 030)
	Main Bearing	BC302J	181 HS 18844	(Std, 010, 020, 030)
	Cam Bearing	B-12	181 BS 19527	W/14 Bolt Oil Pan (Std.)
		B-13	181 BS 19529	W/20 Bolt Oil Pan (Std.)

11	3.1 - (189) 1988-99 (OHV) - V6 3.504" Bore			
	Cast Piston Ring	4456	599 69 N0	1988-1995 (.020,.030,.040)
	Chrome Piston Ring	2C4888		1996-1999 Use with 599820 piston (Std.,.020,.030,.040)
	Moly Piston Ring	2M4456	599 38 N0	1988-1995 (Std.,.020,.030,.040)
	Rod Bearing	BB285J	027 PS 18851	1988-1998 (Std, 010, 020, 030, 040)
	Main Bearing	BC379J	007 HS 18933	1988-1995 Exc. Vin Code "M" (Std, 010, 020, 030)
	Cam Bearing	CH-18	599 BS 19532	(Std.)
	Piston	027250	0272500050203	1990-1992 Camaro & Firebird W/Cast iron cyl head.
		027260	0272600050203	-1990-95 Minivan (Std. .50, .75, 1.00mm)
		027290	0272900050203	1988-1994 FWD cars W/Aluminum cyl head (Std. .50, .75, 1.00mm)
		599820	599820	1994-1995 W/Aluminum cyl head - Use 2M4456 Rings (Std. .50, .75, 1.00mm)
				1996-1999 W/Aluminum cyl head (Std., .50, .75, 1.00mm)

Piston Specifications

Part No.	027250		Part No.	027260	
Casting No.	89V83 A1		Casting No.	89V80	
Clearance	0.0015 in. @ 0.625 in. from the bottom		Clearance	0.0015 in. @ 0.625 in. from the bottom	
Compression Dist.	37.1mm/1.461in		Compression Dist.	37.1mm/1.461in	
Head Type	-.106in		Head Type	-.257in	
Notes	Fixed & offset pin		Notes	Pin boss spacing 1.142"	
Oversize Available	Std. .50, .75, 1.00mm		Oversize Available	Std. .50, .75, 1.00mm	
Pin Size - mm (in)	22.996x64.0 (.905x2.520)		Pin Size - mm (in)	22.996x64.0 (.905x2.520)	
Ring Size (mm)	2@1.5, 1@4.0		Ring Size (mm)	2@1.5, 1@4.0	
Std. Cyl. Diameter	89.025 (3.505)		Std. Cyl. Diameter	89.025 (3.505)	
Part No.	027290	No Photo Available	Part No.	599820	
Casting No.	89V99		Casting No.	89L28	
Clearance	0.0020 in. @ 0.500 in. from the bottom		Clearance	0.0019 in. @ 0.393 in. from the bottom	
Compression Dist.	37.8mm/1.488in		Oversize Available	Std., .50, .75, 1.00mm	
Head Type	-.259in		Std. Cyl. Diameter	89.0 (3.5)	
Notes	Pin boss spacing .965"				
Oversize Available	Std. .50, .75, 1.00mm				
Pin Size - mm (in)	22.996x57.0 (.905x2.244)				
Ring Size (mm)	2@1.5, 1@4.0				
Std. Cyl. Diameter	89.025 (3.505)				

12	3.1 -J (189) 2000-01 (OHV) LG8 - V6 3.504 Bore			
	Chrome Piston Ring	2C4979		(Std.,.020,.030,.040)
	Piston	599810	599810	(Std., .50, .75, 1.00mm)

General Motors (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
12	3.1 -J (189) 2000-01 (OHV) LG8 - V6 3.504 Bore	<i>(Continued)</i>		

Piston Specifications

Part No.	599810		
Casting No.	89L41		
Clearance	0.0019 in. @ 0.551 in. from the bottom		
Compression Dist.	*		
Head Type	*		
Notes	Check For Availability		
Oversize Available	Std., .50, .75, 1.00mm		
Pin Size - mm (in)	*		
Ring Size (mm)	*		
Std. Cyl. Diameter	89.0 (3.5)	599810	

13 3.3 - (200) 1978-79 (OHV) - V6 3.500" Bore

Rod Bearing	BB615J	027 PS 18853	(Std, 010, 020, 030)
Main Bearing	BC317J	027 HS 18862	(Std, 010, 020, 030)
	BC317JH	791 HS 19644	Premium bearing set
Cam Bearing	CH-17	027 BS 19531	(Std.)

14 3.4 -S (207) 1993-95 (OHV) Camaro, Firebird - V6 92.00mm Bore

Cast Piston Ring	4649	599 72 N0	(.020,.030,.040)
Moly Piston Ring	2M4649	599 39 N0	(Std.,.020,.030,.040)
Rod Bearing	BB285J	027 PS 18851	(Std, 010, 020, 030, 040)
Main Bearing	BC379J	007 HS 18933	(Std, 010, 020, 030)
Cam Bearing	CH-18	599 BS 19532	(Std.)

15 3.4 -X (207) 1991-97 (DOHC) - V6 92.00mm Bore

Cast Piston Ring	4649	599 72 N0	1991-1995 (.020,.030,.040)
Chrome Piston Ring	2C4903	513 38 N0	1996-1997 (Std.,.004,.010,.020)
Moly Piston Ring	2M4649	599 39 N0	1991-1995 (Std.,.020,.030,.040)
Rod Bearing	BB285J	027 PS 18851	(Std, 010, 020, 030, 040)
Main Bearing	BC379J	007 HS 18933	(Std, 010, 020, 030)
Cam Bearing	CH-18	599 BS 19532	(Std.)
Piston	027220L	0270400050403	1991-1995 (Std, .50, .75, 1.00mm)
	027220R	0270300050403	1991-1995 (Std, .50, .75, 1.00mm)

Piston Specifications

Part No.	027220L		Part No.	027220R	
Casting No.	92V85		Casting No.	92V85	
Clearance	0.0020 in. @ 0.500 in. from the bottom		Clearance	0.0020 in. @ 0.500 in. from the bottom	
Compression Dist.	37.5mm/1.476in		Compression Dist.	37.5mm/1.476in	
Head Type	Flat		Head Type	Flat	
Notes	Pin Boss Spacing .976"		Notes	Pin Boss Spacing .976"	
Oversize Available	Std., .50, .75, 1.00mm		Oversize Available	Std., .50, .75, 1.00mm	
Pin Size - mm (in)	22.996x57.0 (.905x2.244)		Pin Size - mm (in)	22.996x57.0 (.905x2.244)	
Ring Size (mm)	2@1.5, 1@4.0		Ring Size (mm)	2@1.5, 1@4.0	
Std. Cyl. Diameter	92.029 (3.623)	027220L	Std. Cyl. Diameter	92.029 (3.623)	027220R

16 3.4 -E (207) 1996-01 (OHV) Minivans - V6 92mm Bore

Chrome Piston Ring	2C4903	513 38 N0	1996-2001 Use only with 599710 piston or original piston w/ 3mm oil ring groove (Std.,.004,.010,.020)
Rod Bearing	BB285J	027 PS 18851	(Std, 010, 020, 030, 040)
Main Bearing	BC1807J	599 HS 19705	1996-2000 (Std, 010, 020)
Cam Bearing	CH-18	599 BS 19532	(Std.)
Piston	599710	599710	1996-2001 Must use 2C4903 rings w/ 3mm oil ring

Piston Specifications

Part No.	599710		
Casting No.	92L62		
Clearance	0.0014 in. @ 0.472 in. from the bottom		
Notes	Check For Availability		
Std. Cyl. Diameter	92.0 (3.62)		
		599710	

General Motors (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
17	3.5 -H (212) 1999-02 (DOHC) Gas - V6 89.5mm Bore			
	Chrome Piston Ring	2C4963		(.004, .010)
	Piston	599860	599860	(.004, .010in)

Piston Specifications

Part No.	599860		
Casting No.	89L34		
Notes	Check For Availability		
Std. Cyl. Diameter	89.5 (3.52)		
		599860	

18	3.8 - (229) 1980-84 (OHV) Chev. Eng. - V6 3.736" Bore			
	Rod Bearing	BB615J	027 PS 18853	(Std, 010, 020, 030)
	Main Bearing	BC317J BC317JH	027 HS 18862 791 HS 19644	(Std, 010, 020, 030) Premium bearing set
	Cam Bearing	CH-17	027 BS 19531	(Std.)
19	3.8 - (231) 1975-00 (OHV) Buick Eng. - V6 3.799" Bore			
	Cast Piston Ring	5474 4458	599 36 N0 599 73 N0	1975-1986 Exc. Turbo (Std.,.020,.030,.040) 1987-1992 Shallow oil ring groove (.020,.030,.040)
	Moly Piston Ring	2M5474 2M4458 2M4764 2M4866	599 37 N0 599 40 N0 599 42 N0 599 41 N0	1975-1986 Exc. Turbo (Std.,.020,.030,.040) 1987-1992 Shallow oil ring groove (Std.,.020,.030,.040) 1993-1995 (Std.,.020,.030,.040) 1996-2000 (Std.,.020,.030,.040)
	Rod Bearing	BB605J	181 PS 18842	1977-1990 Exc. 1977 Odd Fire & 1990 Vin code "L" (Std, 010, 020, 030)
	Main Bearing	BC302J	181 HS 18844	1975-1990 Exc. 1990 Vin Code "L" (Std, 010, 020, 030)
	Cam Bearing	B-12 B-12B B-13	181 BS 19527 599 NB 19582 181 BS 19529	1978-1985 W/14 Bolt Oil Pan (Std.) 1978-1985 Oil Control Set (Std.) 1985-1997 W/20 Bolt Oil Pan (Std.)
20	4.1 -4 (252) 1980-84 (OHV) - V6 3.965" Bore			
	Rod Bearing	BB605J	181 PS 18842	(Std, 010, 020, 030)
	Main Bearing	BC302J	181 HS 18844	(Std, 010, 020, 030)
	Cam Bearing	B-12	181 BS 19527	(Std.)
21	4.1 -8 (252) 1982-88 (OHV) - V8 88.00mm Bore			
	Moly Piston Ring	2M5654	599 84 N0	Exc. Allante w/3.0mm O.E. style oil ring
	Rod Bearing	BB633J	027 PS 18857	(Std, 010, 020, 030)
	Main Bearing	BC421J	027 HS 18870	(Std, 010, 020, 030)
	Cam Bearing	C-4	599 NB 19668	(Std.)
22	4.3 - (260) 1975-82 (OHV) Olds. Eng. - V8 3.500" Bore			
	Moly Piston Ring	2M652	599 43 N0	(Std.,.020,.030,.040)
	Rod Bearing	BB604J	303 PS 19032	(Std, 010, 020, 030)
	Main Bearing	BC314J	303 HS 19034	(Std, 010, 020, 030)
	Cam Bearing	O-6 O-7	599 NB 19601 599 NB 19602	1975-1976 (Std.) 1977-1982 (Std.)
23	4.3 - (262) 1985-00 (OHV) Chev. Eng. - V6 4.000" Bore			
	Cast Piston Ring	5712 4721 4720	599 45 N0 599 47 N0 599 74 N0	1985-1994 Deep oil ring groove. Use w/O.E. piston (Std.,.020,.030,.040,.060) 1988-1995 Shallow oil ring groove. Use w/O.E. Piston (Std.,.020,.030,.040) 1990-2000 Use w/027530 piston (.020,.030,.040,.060)
	Moly Piston Ring	2M5712 2M4721 2M4720	599 46 N0 599 48 N0 599 44 N0	1985-1994 Deep oil ring groove. Use w/O.E. piston (Std.,.020,.030,.040,.060) 1988-1995 Shallow oil ring groove. Use w/O.E. Piston (Std.,.020,.030,.040) 1990-2000 Use w/027530 piston (Std.,.020,.030,.040)
	Rod Bearing	BB623J BB623JH	027 PS 18856 791 PS 19638	(Std, 010, 020, 030) Premium bearing set
	<i>Continued On Next Page</i>			

General Motors (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
23	4.3 - (262) 1985-00 (OHV) Chev. Eng. - V6 4.000" Bore <i>(Continued)</i>			
	Main Bearing	BC317J BC317JH	027 HS 18862 791 HS 19644	(Std, 010, 020, 030) Premium bearing set
	Cam Bearing	CH-21 CH-17	599 NB 19586 027 BS 19531	1985-1998 Engs W/"T" on front of Block (Std.) 1985-1999 Exc. Engs W/"T" on front of Block (Std.)
	Piston	027530	0275300050203	1992-1996 Vin code "W" Truck Use 4720 or 2M4720 rings - Non Turbo (Std, .020, .030, .040in)

Piston Specifications

Part No.	027530		027530
Casting No.	101V14		
Clearance	0.0014 in. @ 0.500 in. from the bottom		
Compression Dist.	39.6mm/1.559in		
Head Type	-.073in		
Notes	Fixed & offset pin		
Oversize Available	Std., .020, .030, .040in		
Pin Size - mm (in)	23.550x76.2 (.927x3.000)		
Ring Size (mm)	1@2.0, 1@1.5, 1@4.0		
Std. Cyl. Diameter	101.656 (4.002)		

24	4.4 - (267) 1979-82 (OHV) Chev. Eng. - V8 3.500" Bore			
	Moly Piston Ring	2M652	599 43 N0	(Std.,.020,.030,.040)
	Rod Bearing	BB253J	027 PS 18849	(Std, 010, 020, 030, 040)
	Main Bearing	BC296J	027 HS 18859	(Std, 010, 020, 030)
	Cam Bearing	CH-8	027 BS 19534	(Std.)
25	4.5 - (273) 1988-92 (OHV) - V8 92.00mm Bore			
	Moly Piston Ring	2M4284	599 85 N0	
	Rod Bearing	BB633J	027 PS 18857	(Std, 010, 020, 030)
	Main Bearing	BC421J	027 HS 18870	(Std, 010, 020, 030)
	Cam Bearing	C-4	599 NB 19668	(Std.)
26	4.6 - (283) 1957-67 (OHV) - V8 3.875" Bore			
	Rod Bearing	BB284J	029 PS 18850	Same as BB620J except 8-pack (Std, 010, 020, 030)
27	4.9 -B (300) 1991-95 (OHV) - V8 92.00mm Bore			
	Moly Piston Ring	2M4284	599 85 N0	
	Rod Bearing	BB633J	027 PS 18857	(Std, 010, 020, 030)
	Main Bearing	BC421J	027 HS 18870	(Std, 010, 020, 030)
	Cam Bearing	C-4	599 NB 19668	(Std.)
28	5.0 - (305) 1976-00 (OHV) Chev. Eng. - V8 3.736" Bore			
	Cast Piston Ring	5499 4742	599 51 N0 599 75 N0	1977-1994 Deep oil ring groove (Std.,.020,.030,.040,.060) 1993-2000 Shallow oil ring groove (.020,.030,.040)
	Moly Piston Ring	2M5499 2M4742	599 52 N0 599 53 N0	1977-1994 Deep oil ring groove (Std.,.020,.030,.040,.060) 1993-2000 Shallow oil ring groove (Std.,.020,.030,.040,.060)
	Rod Bearing	BB253J BB253JH	027 PS 18849 791 PS 19634	1976-1999 (Std, 010, 020, 030, 040) 1976-1999 Premium bearing set
	Main Bearing	BC296JH BC296J BC424J	791 HS 19641 027 HS 18859 027 HS 18872	1976-1998 Premium bearing set 1976-1999 (Std, 010, 020, 030) 1976-1999 0.002" O.S. O.D. (Std, 010, 020, 030)
	Cam Bearing	CH-8	027 BS 19534	(Std.)
29	5.0 - (307) 1980-90 (OHV) Olds. Eng. - V8 3.800" Bore			
	Cast Piston Ring	696	599 59 N0	(Std.,.020,.030,.040,.060)
	Moly Piston Ring	2M696	599 60 N0	(Std.,.020,.030,.040,.060)
	Rod Bearing	BB604J	303 PS 19032	(Std, 010, 020, 030)
	Main Bearing	BC314J	303 HS 19034	(Std, 010, 020, 030)
	Cam Bearing	O-7	599 NB 19602	(Std.)
30	5.0 - (307) 1968-73 (OHV) Chev. Eng. - V8 3.875" Bore			
	Cast Piston Ring	660	599 49 N0	(Std.,.020,.030,.040,.060)
	Moly Piston Ring	2M660	599 50 N0	(Std.,.020,.030,.040,.060)
	Rod Bearing	BB253J BB253JH	027 PS 18849 791 PS 19634	(Std, 010, 020, 030, 040) Premium bearing set
	Main Bearing	BC296J BC296JH	027 HS 18859 791 HS 19641	(Std, 010, 020, 030) Premium bearing set
	<i>Continued On Next Page</i>			

General Motors (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
30	5.0 - (307) 1968-73 (OHV) Chev. Eng. - V8 3.875" Bore <i>(Continued)</i>			
	Cam Bearing	CH-8	027 BS 19534	(Std.)
31	5.3 -T (323) 1999-02 (OHV) LM7 - V8 96mm Bore			
	Piston	599800	599800	(Std., .50, .75, 1.00mm)
32	5.4 - (327) 1962-67 (OHV) - V8 4.000 Bore			
	Rod Bearing	BB284J	029 PS 18850	Same as BB620J except 8-pack (Std, 010, 020, 030)
33	5.4 - (330) 1964-67 (OHV) Olds. Eng. - V8 3.938" Bore			
	Rod Bearing	BB604J	303 PS 19032	(Std, 010, 020, 030)
	Main Bearing	BC314J	303 HS 19034	(Std, 010, 020, 030)
	Cam Bearing	O-6	599 NB 19601	(Std.)
34	5.7 - (350) 1978-85 (OHV) Olds. Eng. Diesel - V8 4.058" Bore			
	Rod Bearing	BB604J	303 PS 19032	(Std, 010, 020, 030)
	Main Bearing	BC304J	303 HS 19033	(Std, 010, 020, 030)
	Cam Bearing	O-7	599 NB 19602	(Std.)
35	5.7 - (350) 1968-80 (OHV) Olds. Eng. - V8 4.058" Bore			
	Cast Piston Ring	697	303 03 N0	(Std.,.020,.030,.040,.060)
	Moly Piston Ring	2M697	303 04 N0	(Std.,.020,.030,.040,.060)
	Rod Bearing	BB604J	303 PS 19032	(Std, 010, 020, 030)
	Main Bearing	BC314J	303 HS 19034	(Std, 010, 020, 030)
	Cam Bearing	O-6	599 NB 19601	1967-1976 (Std.)
		O-7	599 NB 19602	1975-1980 (Std.)
36	5.7 - (350) 1967-02 (OHV) Chev. Eng. - V8 4.000" Bore			
	Cast Piston Ring	139 5615 4626	513 82 N0 599 54 N0 599 76 N0	1967-1985 Deep oil ring groove (.020,.030,.040,.060) 1986-1989 Shallow oil ring groove (Std.,.020,.030,.040,.060) 1990-2000 Shallow oil ring groove - light weight (.020,.030,.040)
	Moly Piston Ring	2M139 2M5615 2M4626 2M4897	513 83 N0 599 55 N0 599 56 N0 02702N	1967-1985 Deep oil ring groove (Std.,.020,.030,.040,.060,.080) 1986-1989 Shallow oil ring groove (.020,.030,.040,.060) 1990-2000 Shallow oil ring groove - light weight Use with 027520 piston (Std.,.020,.030,.040,.060) 1998-2000 LS1 Corvette, Camaro, Firebird - Use with 027020 piston (.020, .030)
	Rod Bearing	BB253J BB253JH BB353J	027 PS 18849 791 PS 19634 027 PS 18852	1967-2000 (Std, 010, 020, 030, 040) 1967-2000 Premium bearing set 1967-2000 0.002" O.S. OD (Std, 010, 020, 030)
	Main Bearing	BC296J BC296JH BC424J	027 HS 18859 791 HS 19641 027 HS 18872	1967-2000 (Std, 010, 020, 030) 1967-2000 Premium bearing set 1967-2000 0.010" O.S. OD (Std, 010, 020, 030)
	Cam Bearing	CH-8	027 BS 19534	1967-1999 (Std.)
	Piston	027520 027020 599760	0275200050203 0270200050203 599760	1990-1997 Corvette & Police - Flat top, 4 valve reliefs - Use 2M4626 Rings (Std, .020, .030, .040in) 1998-2000 LS1 Corvette, Camaro, Firebird - 99mm Bore - Use 2M4897 Rings (Std, .50, .75, 1.00mm) 2001-2002 Corvette,Camaro,Firebird W/LS1 & LS6 vin. code S or G - 99mm Bore. (Std., .50, .75, 1.00mm)

Piston Specifications

Part No.	027520		Part No.	027020	
Casting No.	101V13		Casting No.	99L4	
Clearance	0.0012 in. @ 0.500 in. from the bottom		Clearance	0.0010 in. @ 0.400 in. from the bottom	
Compression Dist.	39.6mm/1.559in		Compression Dist.	34.0mm/1.339in	
Head Type	Flat		Head Type	Flat	
Notes	Fixed & offset pin, Flat top		Notes	Fixed & offset pin	
Oversize Available	Std, .020, .030, .040in		Oversize Available	Std, .50, .75, 1.00mm	
Pin Size - mm (in)	23.550x76.2 (.927x3.000)		Pin Size - mm (in)	24.000x70.0 (.945x2.756)	
Ring Size (mm)	1@2.0, 1@1.5, 1@4.0	Ring Size (mm)	2@1.5, 1@3.0		
Std. Cyl. Diameter	101.663 (4.002)	Std. Cyl. Diameter	99.000 (3.898)		

027520

027020

General Motors (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
36	5.7 - (350) 1967-02 (OHV) Chev. Eng. - V8 4.000" Bore <i>(Continued)</i>			

Piston Specifications

Part No.	599760		599760
Casting No.	99L7		
Clearance	0.0009 in. @ 0.433 in. from the bottom		
Compression Dist.	34.00mm/1.339in		
Head Type	Flat		
Notes	Check For Availability		
Oversize Available	Std., .50, .75, 1.00mm		
Pin Size - mm (in)	24.000x70.0 (.9449x2.756)		
Ring Size (mm)	2@1.5, 1@3.0		
Std. Cyl. Diameter	99.000 (3.898)		

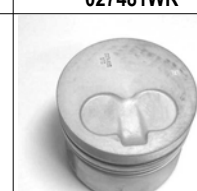
37 6.0 - (366) 1966-97 (OHV) Truck - V8 3.938" Bore

Cast Piston Ring	671 4719	599 77 N0 599 78 N0	1966-1990 (.020,.030,.040) 1991-1997 Shallow oil ring groove (.020,.030,.040)
Moly Piston Ring	2M671 2M4719	599 61 N0 599 62 N0	1966-1990 (Std.,.020,.030,.040,.060) 1991-1997 Shallow oil ring groove (.020,.030,.040,.060)
Rod Bearing	BB619J BB619JH	027 PS 18854 791 PS 19637	(Std, 010, 020, 030) Premium bearing set
Main Bearing	BC364J BC364JH	027 HS 18865 791 HS 19645	(Std, 010, 020, 030, 040) Premium bearing set
Cam Bearing	CH-9A CH-12	027 BS 19535 027 BS 19530	1966 (Std.) 1967-1997 (Std.)

38 6.2 - (379) 1982-95 (OHV) Diesel - V8 3.977" Bore

Moly Piston Ring	02748N	027 48 N0	(Std.,.020,.030,.040)
Rod Bearing	BB095J	599 PS 19666	(Std., .001, 010, 020, 030)
Main Bearing	BC071J	599 HS 19667	(Std, 010, 020, 030)
Cam Bearing	GM-7	599 NB 19597	(Std.)
Piston	027480WR 027481WR 027480 027481	0274800020303 0274810020303 0274800030203 0274810030203	Same as 027480 except with rings Same as 027481 except with rings 1982-1991 Flat top/Ricardo bowl, Ni Resist ring carrier. (Std, .50, .75, 1.00mm) 1982-1991 Flat top/Ricardo bowl, Ni Resist ring carrier. Note: This piston has reduced compression hgt by .010" to allow block milling. (Std, .50, .75, 1.00mm)

Piston Specifications

Part No.	027480WR		Part No.	027481WR	
Notes	Same As 027480 Except With Rings		Notes	Same As 027481 Except With Rings	
		027480WR			027481WR
Part No.	027480		Part No.	027481	
Casting No.	101V3		Casting No.	101V3	
Clearance	0.0025 in. @ 0.375 in. from the bottom		Clearance	0.0025 in. @ 0.375 in. from the bottom	
Compression Dist.	53.83mm/2.119in		Compression Dist.	53.58mm/2.109in	
Head Type	-.158in		Head Type	-.170in	
Notes	Floating & offset pin		Notes	Floating & offset pin, Topped	
Oversize Available	Std., .50, .75, 1.00mm		Oversize Available	Std., .50, .75, 1.00mm	
Pin Size - mm (in)	31.000x70.0 (1.22x2.756)		Pin Size - mm (in)	31.000x70.0 (1.22x2.756)	
Ring Size (mm)	1@3.0, 1@2.0, 1@4.0		Ring Size (mm)	1@3.0, 1@2.0, 1@4.0	
Std. Cyl. Diameter	101.026 (3.977)	027480	Std. Cyl. Diameter	101.026 (3.977)	027481

39 6.5 - (395) 1992-00 (OHV) Diesel - V8 4.054" Bore

Moly Piston Ring	02701N	027 01 N0	1992-1997 (Std.,.020,.030,.040)
Rod Bearing	BB095J	599 PS 19666	1992-1997 (Std., .001, 010, 020, 030)
Main Bearing	BC071J	599 HS 19667	1992-1997 (Std, 010, 020, 030)
Cam Bearing	GM-7	599 NB 19597	1992-2000 (Std.)
Piston	027010HAWR	0270100020303	Same as 027010HA except with rings
<i>Continued On Next Page</i>			

General Motors (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
39	6.5 - (395) 1992-00 (OHV) Diesel - V8 4.054" Bore <i>(Continued)</i>			
	Piston	027011HAWR 027010HA	0270110020303 0270100030201	Same as 027011HA except with rings 1992-1997 Turbo & non-turbo, Flat top, Ricardo bowl (Std, .020, .030, .040in)
		027011HA	0270110020303	1992-1997 Turbo & non-turbo, Flat top, Ricardo bowl, Ni Resist ring carrier. Note: This piston has reduced compression hgt by .010" to allow block milling. (Std, .020, .030, .040in)

Piston Specifications

Part No. Notes	027010HAWR Same As 027010HA Except With Rings		Part No. Notes	027011HAWR Same As 027011HA Except With Rings	
		027010HAWR			027011HAWR
Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	027010HA 103L21 0.004 in. @ 0.63 in. from the bottom 53.83mm/2.119in -.158in Ni Resist ring carrier Std, .020, .030, .040in 31.000x69.5 (1.22x2.738) 1@3.0, 1@2.0, 1@4.0 102.981 (4.054)		Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	027011HA 103L21 0.004 in. @ 0.63 in. from the bottom 53.58mm/2.109in -.148in Topped Std, .020, .030, .040in 31.000x69.5 (1.22x2.738) 1@3.0, 1@2.0, 1@4.0 102.981 (4.054)	
		027010HA			027011HA

40	6.5 - (396) 1965-70 (OHV) - V8 4.094" Bore			
	Rod Bearing	BB619J BB619JH	027 PS 18854 791 PS 19637	(Std, 010, 020, 030) Premium bearing set
	Main Bearing	BC364J BC364JH	027 HS 18865 791 HS 19645	(Std, 010, 020, 030, 040) Premium bearing set
	Cam Bearing	CH-9A CH-12	027 BS 19535 027 BS 19530	1965-1966 (Std.) 1967-1970 (Std.)
41	6.6 - (400) 1970-80 (OHV) Chev. Eng. - Small Block - V8 4.125" Bore			
	Cast Piston Ring	661	599 57 N0	(Std., .020, .030, .040, .060)
	Moly Piston Ring	2M661	599 58 N0	(Std., .020, .030, .040, .060)
	Rod Bearing	BB253J BB253JH	027 PS 18849 791 PS 19634	(Std, 010, 020, 030, 040) Premium bearing set
	Main Bearing	BC467J	027 HS 18873	(Std, 010, 020, 030)
	Cam Bearing	CH-8	027 BS 19534	Small Block (Std.)
42	6.6 - (400) 1965-69 (OHV) Olds. Eng. - V8 4.125" Bore			
	Cast Piston Ring	139	513 82 N0	1965-1967 4.000" Bore (.020, .030, .040, .060)
	Moly Piston Ring	2M139	513 83 N0	1965-1967 4.000" Bore (Std., .020, .030, .040, .060, .080)
	Main Bearing	BC304J	303 HS 19033	(Std, 010, 020, 030)
	Cam Bearing	O-6	599 NB 19601	(Std.)
43	6.6 - (402) 1970-72 (OHV) Chev. Eng. - Big Block - V8 4.094" Bore			
	Cast Piston Ring	661	599 57 N0	(Std., .020, .030, .040, .060)
	Moly Piston Ring	2M661	599 58 N0	(Std., .020, .030, .040, .060)
	Rod Bearing	BB619J	027 PS 18854	(Std, 010, 020, 030)
	Main Bearing	BC364J	027 HS 18865	(Std, 010, 020, 030, 040)
	Cam Bearing	CH-12	027 BS 19530	(Std.)
44	6.6 - (403) 1977-79 (OHV) Olds. Eng. - V8 4.351" Bore			
	Rod Bearing	BB604J	303 PS 19032	(Std, 010, 020, 030)
	Main Bearing	BC314J	303 HS 19034	(Std, 010, 020, 030)
	Cam Bearing	O-7	599 NB 19602	(Std.)
45	7.0 - (425) 1965-67 (OHV) Olds. Eng. - V8 4.125" Bore			
	Cast Piston Ring	661	599 57 N0	(Std., .020, .030, .040, .060)
	Moly Piston Ring	2M661	599 58 N0	(Std., .020, .030, .040, .060)
	<i>Continued On Next Page</i>			

General Motors (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
45	7.0 - (425) 1965-67 (OHV) Olds. Eng. - V8 4.125" Bore (Continued)			
	Main Bearing	BC304J	303 HS 19033	(Std, 010, 020, 030)
	Cam Bearing	O-6	599 NB 19601	(Std.)
46	7.0 - (427) 1968-97 (OHV) - V8 4.250" Bore			
	Cast Piston Ring	683	599 63 N0	1966-1969 (Std.,.020,.030,.040,.060)
	Rod Bearing	BB619J BB619JH	027 PS 18854 791 PS 19637	(Std, 010, 020, 030) Premium bearing set
	Main Bearing	BC364J BC364JH	027 HS 18865 791 HS 19645	(Std, 010, 020, 030, 040) Premium bearing set
	Cam Bearing	CH-12	027 BS 19530	(Std.)
47	7.4 - (454) 1970-00 (OHV) - V8 4.250" Bore			
	Cast Piston Ring	683 4718	599 63 N0 599 65 N0	1970-1990 Deep oil ring groove (Std.,.020,.030,.040,.060) 1991-2000 Shallow oil ring groove (.020,.030,.040,.060)
	Moly Piston Ring	2M683 2M4718	599 64 N0 599 66 N0	1970-1990 Deep oil ring groove (Std.,.020,.030,.040,.060) 1991-2000 Shallow oil ring groove (.020,.030,.040,.060)
	Rod Bearing	BB619J BB619JH	027 PS 18854 791 PS 19637	1970-1999 (Std, 010, 020, 030) 1970-1999 Premium bearing set
	Main Bearing	BC364J BC364JH	027 HS 18865 791 HS 19645	1970-1999 (Std, 010, 020, 030, 040) 1970-1999 Premium bearing set
	Cam Bearing	CH-12	027 BS 19530	1970-1999 (Std.)
48	7.5 - (455) 1968-76 (OHV) Olds. Eng. - V8 4.125" Bore			
	Cast Piston Ring	661	599 57 N0	(Std.,.020,.030,.040,.060)
	Moly Piston Ring	2M661	599 58 N0	(Std.,.020,.030,.040,.060)
	Main Bearing	BC304J	303 HS 19033	(Std, 010, 020, 030)
	Cam Bearing	O-6	599 NB 19601	(Std.)

Honda

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
4 Cylinder 2.0 (1955cc) BS, BT,			A20A1, A20A3 (SOHC)	1986-89	1			
Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description				
1	2.0 - (1955cc) 1986-89 (SOHC) BS, BT, A20A1, A20A3 - 4 Cylinder 82.70mm Bore							
	Chrome Piston Ring	2C4499	631 01 N0	Accord, Prelude (Std.,.020,.030,.040)				
	Rod Bearing	BB2200J	631 PS 19700	(Std, 010, 020, 030)				
	Main Bearing	BC2200J	631 HS 19688	(Std, 010, 020, 030)				
	Thrust Washer	TW1134	631 AS 19730	(Std)				

Hyundai

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
4 Cylinder 2.0 (122) 4G63 (DOHC)	1992-94	1	4 Cylinder (Continued) 2.4 (144) 4G64 (SOHC)	1992-96	2			
Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description				
1	2.0 - (122) 1992-94 (DOHC) 4G63 - 4 Cylinder 85.00mm Bore							
	Rod Bearing	BB1085J	513 PS 19615	(Std.,.010,.020)				
	Main Bearing	BC1821J	513 HS 19614	.25/.50 sets have +0.15mm flange width (Std, 010, 020, 030)				
2	2.4 - (144) 1992-96 (SOHC) 4G64 - 4 Cylinder 86.50mm Bore							
	Chrome Piston Ring	2C4783	513 78 N0	(Std.,.020,.030,.040)				
	Rod Bearing	BB1085J	513 PS 19615	(Std.,.010,.020)				
	Main Bearing	BC1821J	513 HS 19614	.25/.50 sets have +0.15mm flange width (Std, 010, 020, 030)				

Isuzu

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
4 Cylinder 2.2 (134) Hombre (OHV) 2.3 (138) 4ZD1 (SOHC) 2.6 (156) 4ZE1 (SOHC)	1996-00 1986-95 1988-96	1 2 3	V6 2.8 (173) (OHV)	1989-91	4			
Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description				
1	2.2 - 4 (134) 1996-00 (OHV) Hombre - 4 Cylinder 3.504" Bore							
	Cast Piston Ring	6209	599 79 N0	(Std.,.020,.030,.040)				
	Moly Piston Ring	2M6209	599 28 N0	(.020,.030,.040)				
	Rod Bearing	BB620J	027 PS 18855	1996-1999 (Std, 010, 020, 030)				
	Main Bearing	BC415J	027 HS 18869	1996 (Std, 010, 020, 030)				
	Cam Bearing	CH-19	599 NB 19585	(Std.)				
2	2.3 - (138) 1986-95 (SOHC) 4ZD1 - 4 Cylinder 3.516 Bore							
	Chrome Piston Ring	2C4603	629 18 N0	(.020,.030)				
	Rod Bearing	BB1620J	629 PS 19676	(Std, 010, 020, 030)				
	Main Bearing	BC1620J	629 HS 19701	(Std, 010, 020, 030)				
	Thrust Washer	TW1616	629 AS 19729	(Std)				
3	2.6 - (156) 1988-96 (SOHC) 4ZE1 - 4 Cylinder 92.6 Bore							
	Chrome Piston Ring	2C4637	629 17 N0	(.020,.030)				
	Rod Bearing	BB1620J	629 PS 19676	(Std, 010, 020, 030)				
	Main Bearing	BC1627J	629 HS 19686	(Std, 010, 020, 030)				
	Thrust Washer	TW1616	629 AS 19729	(Std)				
4	2.8 - (173) 1989-91 (OHV) - V6 89.00mm Bore							
	Cast Piston Ring	6194	599 34 N0	(Std.,.020,.030,.040)				
	Moly Piston Ring	2M6194	599 35 N0	(Std.,.020,.030,.040)				
	Rod Bearing	BB285J	027 PS 18851	(Std, 010, 020, 030, 040)				
	Main Bearing	BC379J	007 HS 18933	(Std, 010, 020, 030)				
	Cam Bearing	CH-18	599 BS 19532	(Std.)				
		CH-18A	599 NB 19584	Special Wide #2 & #3 Bearings (Std.)				

John Deere

Engine		Year	Line	Engine		Year	Line	Engine		Year	Line
3 Cylinder 2.9 (179) 3179D 2.9 (179) 3179T			1	4 Cylinder (Continued) 3.9 (239) 4239T			4				
4 Cylinder 3.9 (239) 4239D			2	6 Cylinder 5.9 (359) 6359D			5				
			3	5.9 (359) 6359T			6				
Line No.	Part Title		MAHLE Part No.		SAP Part No.		Description				
1	2.9 - (179) 3179D Diesel - 3 Cylinder 4.193" Bore										
	Piston		225200		2252000030203		Non-Turbo. Fits Wheel tractor 2040, 2140, 2150, 2155, 2240, 2250, 2255, 2255V, 2355M, Wheel loader-415B, Excavators-350D, 355D (Std)				
	Casting/stamping #		106 L8 RT								
	O.E. #		RE19282								

Piston Specifications

Part No.	225200		
Casting No.	106L8RT		
Clearance	0.0043 in. @ 0.689 in. from the bottom		
Compression Dist.	66.30mm/2.610in		
Head Type	-.741in		
Notes			
Oversize Available	Std		
Pin Size - mm (in)	34.925x84 (1.375x3.307)		
Ring Size (mm)	1@3.0, 1@2.3, 1@3.4		
Std. Cyl. Diameter	106.500 (4.193)		

2	2.9 - (179) 3179T Diesel - 3 Cylinder 4.193" Bore							
	Piston	225210	2252100030203	Turbo. Fits Wheel Tractor-2355N (Std)				
	Continued On Next Page							

John Deere (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
2	2.9 - (179) 3179T Diesel - 3 Cylinder 4.193" Bore			<i>(Continued)</i>
	Casting/stamping #	106 L9 RT		
	O.E. #	RE48368		

Piston Specifications

Part No.	225210	 225210	
Casting No.	106L9RT		
Clearance	0.0043 in. @ 0.787 in. from the bottom		
Compression Dist.	66.30mm/2.610in		
Head Type	-.741in		
Notes			
Oversize Available	Std		
Pin Size - mm (in)	41.275x84 (1.625x3.307)		
Ring Size (mm)	1@3.0, 1@2.3, 1@3.4		
Std. Cyl. Diameter	106.500 (4.193)		

3	3.9 - (239) 4239D Diesel - 4 Cylinder 4.193" Bore			
	Piston	225200	2252000030203	Non-Turbo. Fits Wheel tractor-2350,2355,2550, Wheel Loader-210C,310C, 315C,415B,515B, Excavator-JD34,JD44, Combine-70,70D,290D,490, Windrower-2360,3430(to S/N 809840), Crawler tractor-JD45,JD54,400G, Lift truck-482C, Roller-CA15,CA21 (Std)
	Casting/stamping #	106 L8 RT		
	O.E. #	RE19282		

Piston Specifications

Part No.	225200	 225200	
Casting No.	106L8RT		
Clearance	0.0043 in. @ 0.689 in. from the bottom		
Compression Dist.	66.30mm/2.610in		
Head Type	-.741in		
Notes			
Oversize Available	Std		
Pin Size - mm (in)	34.925x84 (1.375x3.307)		
Ring Size (mm)	1@3.0, 1@2.3, 1@3.4		
Std. Cyl. Diameter	106.500 (4.193)		

4	3.9 - (239) 4239T Diesel - 4 Cylinder 4.193" Bore			
	Piston	225210	2252100030203	Turbo. Fits Wheel tractor-2750,2755,2855,2855N, Wheel loader-310C,310D, 315C,515B, Combine-490, Winrower-3430 (from S/N 809841) 3830, Sweeper-993AM (Std)
	Casting/stamping #	106 L9 RT		
	O.E. #	RE48368		

Piston Specifications

Part No.	225210	 225210	
Casting No.	106L9RT		
Clearance	0.0043 in. @ 0.787 in. from the bottom		
Compression Dist.	66.30mm/2.610in		
Head Type	-.741in		
Notes			
Oversize Available	Std		
Pin Size - mm (in)	41.275x84 (1.625x3.307)		
Ring Size (mm)	1@3.0, 1@2.3, 1@3.4		
Std. Cyl. Diameter	106.500 (4.193)		

5	5.9 - (359) 6359D Diesel - 6 Cylinder 4.193" Bore			
	Piston	225200	2252000030203	Wheel tractor-2940,2950,2955,3150,3155, Wheel loader-444D, Crawler tractor-JD55, Excavator-JD54 Picker, Harvester, Stripper-7440,9900, 9910,9920 (Std)
	Casting/stamping #	106 L8 RT		
	O.E. #	RE19282		

John Deere (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
5	5.9 - (359) 6359D Diesel - 6 Cylinder 4.193" Bore (Continued)			
Piston Specifications				
Part No.	225200	 225200		
Casting No.	106L8RT			
Clearance	0.0043 in. @ 0.689 in. from the bottom			
Compression Dist.	66.30mm/2.610in			
Head Type	-.741in			
Notes				
Oversize Available	Std			
Pin Size - mm (in)	34.925x84 (1.375x3.307)			
Ring Size (mm)	1@3.0, 1@2.3, 1@3.4			
Std. Cyl. Diameter	106.500 (4.193)			

6	5.9 - (359) 6359T Diesel - 6 Cylinder 4.193" Bore			
	Piston	225210	2252100030203	Wheel tractor-4050 (From S/N 6593), Wheel loader-444E,544E,710B,710C, Crawler-JD65, Combine-9400, Harvester-7445,7484,9930,Picker-9930, Stripper 7445,7484 (Std)
	Casting/stamping #	106 L9 RT		
	O.E. #	RE48368		

Piston Specifications	
Part No.	225210
Casting No.	106L9RT
Clearance	0.0043 in. @ 0.787 in. from the bottom
Compression Dist.	66.30mm/2.610in
Head Type	-.741in
Notes	
Oversize Available	Std
Pin Size - mm (in)	41.275x84 (1.625x3.307)
Ring Size (mm)	1@3.0, 1@2.3, 1@3.4
Std. Cyl. Diameter	106.500 (4.193)



225210

Mazda

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
4 Cylinder			4 Cylinder (Continued)			V6 (Continued)		
2.0 (1991cc) FS (DOHC)	1993-99	1	2.6 (2606cc) G6 (SOHC)	1989-94	5	4.0 (244) (OHV)	1990-99	8
2.0 (1998cc) FE (SOHC)	1983-87	2	V6					
2.2 (2184cc) F2 (SOHC)	1987-93	3	3.0 (2954cc) JE (SOHC)	1989-97	6			
2.6 (2559cc) G54B (SOHC)	1987-88	4	3.0 (2954cc) JE (DOHC)	1989-97	7			
Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description				
1	2.0 - (1991cc) 1993-99 (DOHC) FS - 4 Cylinder 83mm Bore							
	Chrome Piston Ring	2C4749	627 29 N0	(Std.,.020,.030,.040)				
	Rod Bearing	BB8300J	627 PS 19679	(Std, 010, 020, 030)				
	Main Bearing	BC8302J	627 HS 19691	(Std, 010, 020, 030)				
2	2.0 - (1998cc) 1983-87 (SOHC) FE - 4 Cylinder 86mm Bore							
	Moly Piston Ring	2M5664	627 12 N0	(.020,.030)				
	Rod Bearing	BB2004J	627 PS 19677	(Std, 010, 020, 030)				
	Main Bearing	BC2009J	627 HS 19687	(Std, 010, 020, 030)				
3	2.2 - (2184cc) 1987-93 (SOHC) F2 - 4 Cylinder 86mm Bore							
	Moly Piston Ring	2M5664	627 12 N0	(.020,.030)				
4	2.6 - (2559cc) 1987-88 (SOHC) G54B - 4 Cylinder 91.10mm Bore							
	Cast Piston Ring	5667	513 79 N0	(.020,.030,.040,.060)				
	Chrome Piston Ring	2C5667	513 61 N0	(.020,.030,.040,)				
	Rod Bearing	BB156J	513 PS 19077	(Std, 010, 020, 030)				
	Main Bearing	BC425J	014 HS 18830	(Std, 010, 020, 030)				
	Cam Bearing	MIA-1	513 NB 19598	SOHC Half Shell Set (Std.)				
		MIG-2	513 NB 19599	Bal. Shaft set (Std.)				

Mazda (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
5	2.6 - (2606cc) 1989-94 (SOHC) G6 - 4 Cylinder 92mm Bore			
	Chrome Piston Ring	2C4216	607 59 N0	MPV, P.U. (.020,.030)
6	3.0 - (2954cc) 1989-97 (SOHC) JE - V6 90.00mm Bore			
	Moly Piston Ring	2M4679	627 02 N0	MPV (Std.,.020,.030,.040)
7	3.0 - (2954cc) 1989-97 (DOHC) JE - V6 90.00mm Bore			
	Moly Piston Ring	2M4679	627 02 N0	929 (Std.,.020,.030,.040)
8	4.0 - (244) 1990-99 (OHV) - V6 100.40mm Bore			
	Moly Piston Ring	01444N	014 44 N0	(Std.,.020,.030,.040)
	Rod Bearing	BB625J	014 PS 18194	(Std, 010, 020, 030)
	Main Bearing	BC485J	014 HS 19577	(Std, 010, 020, 030)
	Cam Bearing	F-50	014 BS 19544	(Std.)
		F-50A	014 NB 19593	Special Wide #4 Bearing (Std.)
		FG-53	014 NB 19596	Aux. Shaft set (Std.)
	Piston	014440	0144400050203	1990-1994 Fixed & offset pin (Std, .50, .75, 1.00mm)
		015110	015110	1995-1997 (Std, .50, .75, 1.00mm)

Piston Specifications

Part No.	014440		Part No.	015110	
Casting No.	100V21		Casting No.	100V33	
Clearance	0.0012 in. @ 0.500 in. from the bottom		Clearance	0.0014 in. @ 0.394 in. from the bottom	
Compression Dist.	37.12mm/1.461in		Compression Dist.	36.90mm/1.453in	
Head Type	-.315in		Head Type	-.326in	
Notes	Fixed & offset pin		Notes	Check For Availability	
Oversize Available	Std, .50, .75, 1.00mm		Oversize Available	Std, .50, .75, 1.00mm	
Pin Size - mm (in)	24.000x72.0 (.9449x3.07)		Pin Size - mm (in)	24.000x72.0 (.9449x2.835)	
Ring Size (mm)	1@1.6, 1@1.75, 1@3.5		Ring Size (mm)	1@1.6, 1@1.75, 1@3.5	
Std. Cyl. Diameter	100.435 (3.954)		Std. Cyl. Diameter	100.40 (3.95)	
		014440			015110

Mitsubishi

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
4 Cylinder 1.8 (107) 4G37 (SOHC) 2.0 (122) 4G63 (DOHC) 2.0 (122) G63B, 4G63 (SOHC)	1989-94 1990-92 1983-93	1 2 3	4 Cylinder (Continued) 2.4 (144) 4G64 (SOHC) 2.6 (156) G54B (SOHC) V6 3.0 (181) 6G72 (SOHC)	1989-96 1983-89 1988-97	4 5 6	V6 (Continued) 3.0 (181) 6G72 (DOHC)	1992-97	7
Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description				
1	1.8 - (107) 1989-94 (SOHC) 4G37 - 4 Cylinder 80.60mm Bore							
	Cast Piston Ring	4367	513 62 N0	(.020,.030)				
	Chrome Piston Ring	2C4367	513 59 N0	(.020,.030,.040)				
	Rod Bearing	BB1085J	513 PS 19615	(Std.,.010,.020)				
	Main Bearing	BC1821J	513 HS 19614	.25/.50 sets have +0.15mm flange width (Std, 010, 020, 030)				
2	2.0 - (122) 1990-92 (DOHC) 4G63 - 4 Cylinder 85.00mm Bore							
	Rod Bearing	BB1085J	513 PS 19615	(Std.,.010,.020)				
	Main Bearing	BC1821J	513 HS 19614	.25/.50 sets have +0.15mm flange width (Std, 010, 020, 030)				
3	2.0 - (122) 1983-93 (SOHC) G63B, 4G63 - 4 Cylinder 85.00mm Bore							
	Cast Piston Ring	6899	513 63 N0	1989-1993 (.020,.030,.040)				
	Chrome Piston Ring	2C6171	513 66 N0	1983-1988 (.020,.030,.040)				
	Rod Bearing	BB1085J	513 PS 19615	(Std.,.010,.020)				
	Main Bearing	BC1821J	513 HS 19614	.25/.50 sets have +0.15mm flange width (Std, 010, 020, 030)				
4	2.4 - (144) 1989-96 (SOHC) 4G64 - 4 Cylinder 86.50mm Bore							
	Chrome Piston Ring	2C4783	513 78 N0	(Std.,.020,.030,.040)				
	Rod Bearing	BB1085J	513 PS 19615	(Std.,.010,.020)				
	Main Bearing	BC1821J	513 HS 19614	.25/.50 sets have +0.15mm flange width (Std, 010, 020, 030)				
5	2.6 - (156) 1983-89 (SOHC) G54B - 4 Cylinder 91.10mm Bore							
	Cast Piston Ring	5595 5667	513 36 N0 513 79 N0	1983 To 4/1/83 (.020,.030,.040) 1983 From 4/1/83 (.020,.030,.040,.060)				
Continued On Next Page								

Mitsubishi (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
5	2.6 - (156) 1983-89 (SOHC) G54B - 4 Cylinder 91.10mm Bore (Continued)			
	Chrome Piston Ring	2C5667	513 61 N0	1983 From 4/1/83 (.020,.030,.040,)
	Rod Bearing	BB156J	513 PS 19077	(Std, 010, 020, 030)
	Main Bearing	BC425J	014 HS 18830	(Std, 010, 020, 030)
	Cam Bearing	MIA-1 MIG-2	513 NB 19598 513 NB 19599	SOHC Half Shell Set (Std.) Bal. Shaft set (Std.)
6	3.0 - (181) 1988-97 (SOHC) 6G72 - V6 91.00mm Bore			
	Cast Piston Ring	4453	676 32 N0	(.020,.030,.040,.060)
	Chrome Piston Ring	2C4453	676 33 N0	(.020,.030)
	Moly Piston Ring	2M4453	513 70 N0	(Std.,.020,.030,.040)
	Rod Bearing	BB634J	513 PS 18880	(Std, 010, 020, 030)
	Main Bearing	BC422J	513 HS 18888	(Std, 010, 020, 030)
	Cam Bearing	MIA-5	676 PS 19550	1989-1996 SOHC Half Shell Set (Std.)
7	3.0 - (181) 1992-97 (DOHC) 6G72 - V6 91.1mm Bore			
	Chrome Piston Ring	2C4670	513 43 N0	3000GT, 24 valve (.020,.030)
	Rod Bearing	BB634J	513 PS 18880	(Std, 010, 020, 030)
	Main Bearing	BC422J	513 HS 18888	(Std, 010, 020, 030)
	Thrust Washer	TW1149	513 AS 19728	(Std)

Navistar

Engine		Year	Line	Engine		Year	Line	Engine		Year	Line
V8				V8 (Continued)							
6.9 (420) (OHV)		1984-87	1	7.3 (445) Navistar (OHV)		1994-95	3				
7.3 (445) Navistar (OHV)		1988-94	2	7.3 (445) Navistar (OHV)		1996-98	4				
Line No.	Part Title		MAHLE Part No.		SAP Part No.	Description					
1	6.9 - (420) 1984-87 (OHV) Diesel - V8 4.000" Bore										
	Moly Piston Ring		14411N		144 11 N0	Use with 144110, 144111, 144111HA (Std.,.020,.030,.040)					
	Rod Bearing		BB308J		144 PS 19245	(Std, 010, 020, 030)					
	Main Bearing		BC488J		089 HS 18515	(Std, 010, 020, 030)					
	Cam Bearing		IN-17		014 NS 19612	(Std.)					
	Piston		144110		1441100030203	Flat top W/6.64cc Ricardo cup, Ni Resist ring carrier (Std, .020, .030, .040in)					
			144110WR		1441100020303	Same as 144110 except with rings					
			144111		1441110030203	Flat top W/6.64cc Ricardo cup, Ni Resist ring carrier. Note: This piston has reduced compression hgt by .010" to allow block milling. (Std, .020, .030, .040in)					
			144111HA		1441113030203	Flat top W/6.64cc Ricardo cup, Ni Resist ring carrier. Note: This piston has reduced compression hgt by .010" to allow block milling & has a hard anodized crown. It is offered for us in aftermarket turbo engines only. (Std, .020, .030, .040in)					
			144111HAWR		1441133020303	Same as 144111HA except with rings					
			144111WR		1441110020303	Same as 144111 except with rings					

Piston Specifications

Part No.	144110		Part No.	144110WR	
Casting No.	101L26		Notes	Same As 144110 Except With Rings	
Clearance	0.0060 in. @ 1.000 in. from the bottom				
Compression Dist.	49.39mm/1.944in				
Head Type	Flat				
Notes					
Oversize Available	Std, .020, .030, .040in				
Pin Size - mm (in)	28.194x68.6 (1.11x2.702)				
Ring Size (mm)	2@2.0, 1@2.8				
Std. Cyl. Diameter	101.600 (4.000)				
		144110			144110WR

Navistar (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description	
1	6.9 - (420) 1984-87 (OHV) Diesel - V8 4.000" Bore (Continued)				
Piston Specifications					
Part No.	144111		Part No.	144111HA	
Casting No.	101L26		Casting No.	101L26	
Clearance	0.0060 in. @ 1.000 in. from the bottom		Clearance	0.0060 in. @ 1.000 in. from the bottom	
Compression Dist.	49.12mm/1.934in		Compression Dist.	49.13mm/1.934in	
Head Type	Flat		Head Type	Flat	
Notes	Topped		Notes	Topped	
Oversize Available	Std. .020, .030, .040in		Oversize Available	Std. .020, .030, .040in	
Pin Size - mm (in)	28.194x68.6 (1.11x2.702)		Pin Size - mm (in)	28.194x68.6 (1.11x2.702)	
Ring Size (mm)	2@2.0, 1@2.8		Ring Size (mm)	2@2.0, 1@2.8	
Std. Cyl. Diameter	101.600 (4.000)		Std. Cyl. Diameter	101.600 (4.000)	
Part No.	144111HAWR		Part No.	144111WR	
Notes	Same As 144111HA Except With Rings		Notes	Same As 144111 Except With Rings	
		144111		144111HA	
		144111HAWR		144111WR	

2	7.3 - (445) 1988-94 (OHV) Navistar Diesel Non-Turbo - V8 4.110" Bore
----------	---

Moly Piston Ring	14417N	144 17 N0	(Std.,.020,.030,.040)
Rod Bearing	BB308J	144 PS 19245	(Std, .010, .020, .030)
Main Bearing	BC488J	089 HS 18515	(Std, .010, .020, .030)
Cam Bearing	IN-17	014 NS 19612	(Std.)
Piston	144170	1441700030203	Flat top W/6.7cc Ricardo cup, Ni Resist ring carrier. (Std, .020, .030, .040in)
	144170HA	1441732030203	Flat top W/6.7cc Ricardo cup, Ni Resist ring carrier, Hard anodized crown. (Std, .020, .030, .040in)
	144170HAWR	1441732020303	Same as 144170HA except with rings
	144170WR	1441700020303	Same as 144170 except with rings
	144171	1441710030203	Reduced compression, Flat top W/6.7cc Ricardo cup, Ni Resist ring carrier, Note: This piston has reduced compression hgt. by .010" to allow block milling. (Std, .020, .030, .040in)
	144171HA	1441720030203	Reduced compression, Flat top W/6.7cc Ricardo cup, Ni Resist ring carrier, Hard anodized crown. Note: This piston has reduced compression hgt by .010" to allow block milling. It is offered for use in aftermarket turbo applications only. (Std, .020, .030, .040in)
	144171HAWR	1441720020303	Same as 144171HA except with rings
	144171WR	1441710020303	Same as 144171 except with rings

Piston Specifications

Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	144170 104L32 0.0050 in. @ 1.150 in. from the bottom 49.53mm/1.950in Flat Std. .020, .030, .040in 28.204x68.9 (1.11x2.715) 1@3.0, 1@2.0, 1@3.5 104.400 (4.110)		Part No. Casting No. Clearance Compression Dist. Head Type Notes Oversize Available Pin Size - mm (in) Ring Size (mm) Std. Cyl. Diameter	144170HA 104L32 0.0050 in. @ 1.150 in. from the bottom 49.53mm/1.950in Flat Std. .020, .030, .040in 28.204x68.9 (1.11x2.715) 1@3.0, 1@2.0, 1@3.5 104.400 (4.110)	
Part No. Notes	144170HAWR Same As 144170HA Except With Rings		Part No. Notes	144170WR Same As 144170 Except With Rings	
		144170HAWR			144170WR

Navistar (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description	
2	7.3 - (445) 1988-94 (OHV) Navistar Diesel Non-Turbo - V8 4.110" Bore (Continued)				
Piston Specifications					
Part No.	144171		Part No.	144171HA	
Casting No.	104L32		Casting No.	104L32	
Clearance	0.0050 in. @ 1.150 in. from the bottom		Clearance	0.0050 in. @ 1.150 in. from the bottom	
Compression Dist.	49.28mm/1.940in		Compression Dist.	49.28mm/1.940in	
Head Type	Flat		Head Type	Flat	
Notes	Topped		Notes	Topped	
Oversize Available	Std, .020, .030, .040in		Oversize Available	Std, .020, .030, .040in	
Pin Size - mm (in)	28.204x68.9 (1.11x2.715)		Pin Size - mm (in)	28.204x68.9 (1.11x2.715)	
Ring Size (mm)	1@3.0, 1@2.0, 1@3.5		Ring Size (mm)	1@3.0, 1@2.0, 1@3.5	
Std. Cyl. Diameter	104.400 (4.110)		Std. Cyl. Diameter	104.400 (4.110)	
Part No.	144171HAWR		Part No.	144171WR	
Notes	Same As 144171HA Except With Rings		Notes	Same As 144171 Except With Rings	

3	7.3 - (445) 1994-95 (OHV) Navistar Diesel - V8 4.110" Bore			
	Moly Piston Ring	14418N	144 18 N0	Use with 144180HA & 144181HA (Std.,.020,.030,.040)
	Piston	144180HA	1441800030203	Factory IDI Turbo, Big pin, hard anodized crown. , Ni Resist ring carrier. (Std., .020, .030, .040in)
		144180HAWR	1441800020303	Same as 144180HA except with rings
		144181HA	1441810030203	Factory IDI Turbo, Big pin, hard anodized crown., Ni Resist ring carrier, reduced compression. Note: This piston has reduced compression hgt by .010" to allow block milling. (Std., .020, .030, .040in)
		144181HAWR	1441810020303	Same as 144181HA except with rings

Piston Specifications

Piston Specifications					
Part No.	144180HA		Part No.	144180HAWR	
Casting No.	104L33		Notes	Same As 144180HA Except With Rings	
Clearance	0.0060 in. @ 1.000 in. from the bottom				
Compression Dist.	49.53mm/1.950in				
Head Type	Flat				
Notes	Big pin,keystone top ring				
Oversize Available	Std, .020, .030, .040in				
Pin Size - mm (in)	33.2x68.8 (1.3085x2.709)				
Ring Size (mm)	1@3.16 ,1@2.52 ,1@3.5				
Std. Cyl. Diameter	104.400 (4.110)				
		144180HA			144180HAWR
Part No.	144181HA		Part No.	144181HAWR	
Casting No.	104L33		Notes	Same As 144181HA Except With Rings	
Clearance	0.0060 in. @ 1.000 in. from the bottom				
Compression Dist.	49.28mm/1.940in				
Head Type	Flat				
Notes	Topped, keystone top ring				
Oversize Available	Std, .020, .030, .040in				
Pin Size - mm (in)	33.2x68.8 (1.3085x2.709)				
Ring Size (mm)	1@3.16 ,1@2.52 ,1@3.5				
Std. Cyl. Diameter	104.400 (4.110)				
		144181HA			144181HAWR

4	7.3 - (445) 1996-98 (OHV) Navistar Diesel - V8 4.110" Bore			
	Moly Piston Ring	14420N	144 20 N0	Use with 144200, 144201 & 144202 (Std.,.020,.030,.040)
	Piston	144200	1442000030203	Factory DI Turbo, Ni Resist ring carrier, Reentrant bowl type (Std., .020, .030, .040in)
		144200WR	1442000020303	Same as 144200 except with rings
		144201	1442010030203	Factory DI Turbo, Ni Resist ring carrier, Reentrant bowl type, reduced compression. Note: This piston has reduced compression hgt by .010" to allow block milling. (Std., .020, .030, .040in)
		144201WR	1442010020303	Same as 144201 except with rings
		144190	1441900030203	1999-2003 (.020, .030)
	<i>Continued On Next Page</i>			

Navistar (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
4	7.3 - (445) 1996-98 (OHV) Navistar Diesel - V8 4.110" Bore (Continued)			
	Piston	144191	1441910030203	1999-2003 This piston has reduced compression height by .010" to allow for block milling (.020, .030)

Piston Specifications

Part No.	144200		Part No.	144200WR	
Casting No.	104L34		Notes	Same As 144200 Except With Rings	
Clearance	0.0055 in. @ 0.850 in. from the bottom				
Compression Dist.	54.40mm/2.142in				
Head Type	Flat				
Notes					
Oversize Available	Std. .020, .030, .040in				
Pin Size - mm (in)	33.2x76.0 (1.3085x2.992)				
Ring Size (mm)	1@3.0, 1@2.0, 1@3.5				
Std. Cyl. Diameter	104.400 (4.110)	144200			144200WR
Part No.	144201		Part No.	144201WR	
Casting No.	104L34		Notes	Same As 144201 Except With Rings	
Clearance	0.0055 in. @ 0.850 in. from the bottom				
Compression Dist.	54.15mm/2.132in				
Head Type	Flat				
Notes	Topped				
Oversize Available	Std. .020, .030, .040in				
Pin Size - mm (in)	33.2x76.0 (1.3085x2.992)				
Ring Size (mm)	1@3.0, 1@2.0, 1@3.5				
Std. Cyl. Diameter	104.400 (4.110)	144201			144201WR
Part No.	144190		Part No.	144191	
Notes	Check For Availability		Notes	Check For Availability	
		144190			144191

Nissan

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
4 Cylinder			4 Cylinder (Continued)			(OHC)	1984-99	5
1.5 (1491cc) E15,S,T (OHC)	1982-84	1	2.4 (2389cc) Z24,I (OHC)	1983-89	4	V6 (Continued)		
1.6 (1597cc) E16,I,S (OHC)	1983-88	2	V6			3.0 (2960cc) VE30DE	1990-96	6
2.4 (2389cc) KA24E (OHC)	1989-97	3	3.0 (2960cc) VG30E,I,ET			(DOHC)		
Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description				
1	1.5 - (1491cc) 1982-84 (OHC) E15,S,T - 4 Cylinder 76mm Bore							
	Chrome Piston Ring	2C6151	640 52 N0	(Std.,.020,.030,.040)				
	Rod Bearing	BB1174J	640 PS 19698	(Std.,.010,.020, .030)				
	Main Bearing	BC1174J	640 HS 19617	(Std.,.010,.020)				
2	1.6 - (1597cc) 1983-88 (OHC) E16,I,S - 4 Cylinder 76mm Bore							
	Chrome Piston Ring	2C6151	640 52 N0	(Std.,.020,.030,.040)				
	Rod Bearing	BB1174J	640 PS 19698	(Std.,.010,.020, .030)				
	Main Bearing	BC1174J	640 HS 19617	(Std.,.010,.020)				
3	2.4 - (2389cc) 1989-97 (OHC) KA24E - 4 Cylinder 89mm Bore							
	Chrome Piston Ring	2C4660	640 51 N0	240SX, Stanza, Axxess, Pickup (Std.,.020,.030,.040)				
4	2.4 - (2389cc) 1983-89 (OHC) Z24,I - 4 Cylinder 89mm Bore							
	Chrome Piston Ring	2C4452	640 03 N0	1983-1986 720 P.U. w/2.0mm Top ring (.020,.030,.040)				
		2C4452	640 03 N0	1986-1989 (.020,.030,.040)				
5	3.0 - (2960cc) 1984-99 (OHC) VG30E,I,ET - V6 87mm Bore							
	Chrome Piston Ring	2C6196	640 54 N0	1984 TO 3/87 All (.020,.030)				
		2C6196	640 54 N0	From 4/87 1998 All w/1.5mm Top ring (.020,.030)				
Continued On Next Page								

Nissan (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
5	3.0 - (2960cc) 1984-99 (OHC) VG30E,I,ET - V6 87mm Bore <i>(Continued)</i>			
	Rod Bearing	BB326J	604 PS 19675	(Std,.010,.020,.030)
	Main Bearing	BC095J	640 HS 19689	(Std, 010, 020, 030)
6	3.0 - (2960cc) 1990-96 (DOHC) VE30DE - V6 87mm Bore			
	Chrome Piston Ring	2C6196	640 54 N0	(.020,.030)

Subaru

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
4 Cylinder 1.8 (1781cc) EA81 (OHV)	1980-89	1	4 Cylinder (Continued) 1.8 (1781cc) EA82 (OHC)	1985-94	2			
Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description				
1	1.8 - (1781cc) 1980-89 (OHV) EA81 - 4 Cylinder 92mm Bore							
	Chrome Piston Ring	2C5657	901 99 N0	Brat, 1800 Hatchback (.020,.030)				
2	1.8 - (1781cc) 1985-94 (OHC) EA82 - 4 Cylinder 92mm Bore							
	Chrome Piston Ring	2C5657	901 99 N0	1800 Loyale XT (.020,.030)				

Suzuki

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
4 Cylinder 1.3 (1298cc) G13BA			(SOHC) 4 Cylinder (Continued)	1990-97	1	1.3 (1298cc) G13K (DOHC)	1990-97	2
Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description				
1	1.3 - (1298cc) 1990-97 (SOHC) G13BA - 4 Cylinder 74mm Bore							
	Chrome Piston Ring	2C4258	643 08 N0	Samurai, Swift (.020,.030)				
2	1.3 - (1298cc) 1990-97 (DOHC) G13K - 4 Cylinder 74mm Bore							
	Chrome Piston Ring	2C4258	643 08 N0	Swift GTI (.020,.030)				

Toyota

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
4 Cylinder 1.5 (1456cc) 3E,3EE (OHC)	1987-94	1	4 Cylinder (Continued) 2.2 (2237cc) 4YEC (OHV)	1986-89	7	(DOHC) V6 (Continued)	1992-93	10
1.6 (1587cc) 4AC (DOHC)	1983-89	2	2.4 (2366cc) 22R (SOHC)	1981-90	8	3.0 (2958cc) 3VZE (SOHC)	1988-95	11
2.0 (1998cc) 3SFE (DOHC)	1987-97	3	2.7 (2693cc) 3RZFE	1994-98	9	3.0 (2995cc) 1MZFE	1994-00	12
2.0 (1998cc) 3YEC (OHV)	1984-85	4	(DOHC)			(DOHC)		
2.2 (2164cc) 5SFE (DOHC)	1990-01	5	V6			3.4 (3378cc) 5VZFE	1995-97	13
2.2 (2189cc) 20R (SOHC)	1975-80	6	3.0 (2958cc) 3VZFE			(DOHC)		
Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description				
1	1.5 - (1456cc) 1987-94 (OHC) 3E,3EE - 4 Cylinder 73mm Bore							
	Chrome Piston Ring	2C4633	607 68 N0	(.020,.030,.040)				
	Rod Bearing	BB1424J	607 PS 19694	(Std, 010, 020, 030)				
	Main Bearing	BC1424J	607 HS 19685	(Std, 010, 020, 030)				
	Thrust Washer	TW1424	607 AS 19731	(Std)				
2	1.6 - (1587cc) 1983-89 (DOHC) 4AC - 4 Cylinder 81mm Bore							
	Chrome Piston Ring	2C6180 2C6180	607 69 N0 607 69 N0	1983-1988 Corolla 4AC, 4ALC (.020,.030,.040) 1985-1989 Corolla FX, GTS 4AGEC,4AGELC (.020,.030,.040)				
	Rod Bearing	BB1410J	607 PS 19695	(Std, 010, 020, 030)				
	Main Bearing	BC1410J	607 HS 19683	(Std, 010, 020, 030)				
	Thrust Washer	TW1400	607 AS 19732	(Std)				

Toyota (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
3	2.0 - (1998cc) 1987-97 (DOHC) 3SFE - 4 Cylinder 86mm Bore			
	Cast Piston Ring	4219	607 45 N0	1987-1991 Camry, Celica (.020,.030)
		4219	607 45 N0	1996-1997 RAV 4 (.020,.030)
	Rod Bearing	BB1404J	607 PS 19696	(Std, 010, 020, 030)
	Main Bearing	BC1404J	607 HS 19681	(Std, 010, 020, 030)
	Thrust Washer	TW1117	607 AS 19733	(Std)
4	2.0 - (1998cc) 1984-85 (OHV) 3YEC - 4 Cylinder 86mm Bore			
	Cast Piston Ring	4219	607 45 N0	Van (.020,.030)
	Rod Bearing	BB1407J	607 PS 19697	(Std, 010, 020, 030)
	Main Bearing	BC1407J	607 HS 19682	(Std, 010, 020, 030)
	Thrust Washer	TW1117	607 AS 19733	(Std)
5	2.2 - (2164cc) 1990-01 (DOHC) 5SFE - 4 Cylinder 87mm Bore			
	Moly Piston Ring	2M4207	607 58 N0	Use only with O.E. piston from 1990-97 W/4.0mm Oil Ring (.020,.030)
		2M4686	60761N0	3.0mm oil ring - use w/607610 for all years, or 1998-01 OE piston w/3.0mm oil ring groove (Std.,.020,.030)
	Rod Bearing	BB1404J	607 PS 19696	(Std, 010, 020, 030)
	Main Bearing	BC1404J	607 HS 19681	(Std, 010, 020, 030)
	Piston	607610	607610	Has 3.0mm oil ring groove - use 2M4686 ring set or OE set w/3.0mm oil ring (Std, .020in)
	Thrust Washer	TW1117	607 AS 19733	(Std)

Piston Specifications

Part No.	607610		
Casting No.	87L46		
Clearance	*		
Compression Dist.	*		
Head Type	Flat		
Notes	Check For Availability, Has 3mm Oil Rin		
Oversize Available	Std, .020		
Pin Size - mm (in)	*		
Ring Size (mm)	*		
Std. Cyl. Diameter	87.0 (3.42)		

6	2.2 - (2189cc) 1975-80 (SOHC) 20R - 4 Cylinder 88.50mm Bore			
	Chrome Piston Ring	2C6886	607 56 N0	Exc. shallow oil ring groove (.020,.030)
	Rod Bearing	BB325J	607 PS 19581	(Std,.010,.020,.030)
	Main Bearing	BC1133J	607 HS 19611	(Std, 010, 020, 030)
	Cam Bearing	TOA-1	607 PS 19556	SOHC Half Shell Set (Std.)
	Thrust Washer	TW1133	607 AS 19734	(Std)
7	2.2 - (2237cc) 1986-89 (OHV) 4YEC - 4 Cylinder 91mm Bore			
	Chrome Piston Ring	2C4480	607 57 N0	Van (.020,.030)
	Rod Bearing	BB1407J	607 PS 19697	(Std, 010, 020, 030)
	Main Bearing	BC1407J	607 HS 19682	(Std, 010, 020, 030)
	Thrust Washer	TW1117	607 AS 19733	(Std)
8	2.4 - (2366cc) 1981-90 (SOHC) 22R - 4 Cylinder 92.00mm Bore			
	Cast Piston Ring	5645	607 71 N0	1981-1984 (Std.,.020,.030,.040,.060)
	Chrome Piston Ring	2C5645	607 72 N0	1981-1984 (Std.,.020,.030,.040,.060)
		2C4216	607 59 N0	1985-1990 (.020,.030)
	Rod Bearing	BB325J	607 PS 19581	(Std,.010,.020,.030)
	Main Bearing	BC1133J	607 HS 19611	1981 to 3/82 (Std, 010, 020, 030)
		BC094J	607 HS 19762	From 3/82 to 1990 (Std, 010, 020, 030)
	Cam Bearing	TOA-1	607 PS 19556	SOHC Half Shell Set (Std.)
	Thrust Washer	TW1133	607 AS 19734	(Std)
9	2.7 - (2693cc) 1994-98 (DOHC) 3RZFE - 4 Cylinder 95mm Bore			
	Chrome Piston Ring	2C4908	607 70 N0	4Runner, Tacoma, T100 (.020,.030,.040)
	Rod Bearing	BB8376J	607 PS 19680	(Std, 010, 020, 030)
	Main Bearing	BC8378J	607 HS 19692	(Std, 010, 020, 030)
	Thrust Washer	TW8377	607 AS 19735	(Std)
10	3.0 - (2958cc) 1992-93 (DOHC) 3VZFE - V6 87.5mm Bore			
	Chrome Piston Ring	2C4689	015 45 N0	1992-1993 Camry (.020,.030,.040,.060)

Continued On Next Page

Toyota (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description
10	3.0 - (2958cc) 1992-93 (DOHC) 3VZFE - V6 87.5mm Bore <i>(Continued)</i>			
	Rod Bearing	BB8061J	607 PS 19678	(Std, 010, 020, 030)
	Main Bearing	BC8063J	607 HS 19690	(Std, 010, 020, 030)
	Thrust Washer	TW8063	607 AS 19736	(Std)
11	3.0 - (2958cc) 1988-95 (SOHC) 3VZE - V6 87.50mm Bore			
	Chrome Piston Ring	2C4689	015 45 N0	1988-1995 4Runner, Tacoma, T100 (.020,.030,.040,.060)
	Rod Bearing	BB1445J	607 PS 19674	(Std, 010, 020, 030)
	Main Bearing	BC1423J	607 HS 19684	(Std, 010, 020, 030)
	Thrust Washer	TW8063	607 AS 19736	(Std)
12	3.0 - (2995cc) 1994-00 (DOHC) 1MZFE - V6 87.50mm Bore			
	Chrome Piston Ring	2C4902	607 73 N0	Camry, Avalon (.020,.030,.040)
	Piston	607730	607730	Use 2C4902 rings (Std, .020in)

Piston Specifications

Part No.	607730		
Casting No.	87L35		
Clearance	*		
Compression Dist.	*		
Head Type	Flat		
Notes	Check For Availability		
Oversize Available	Std, .020		
Pin Size - mm (in)	*		
Ring Size (mm)	2@1.2, 1@3.0		
Std. Cyl. Diameter	87.50 (3.445)		
		607730	

13	3.4 - (3378cc) 1995-97 (DOHC) 5VZFE - V6 93.50mm Bore			
	Chrome Piston Ring	2C4911	607 74 N0	4Runner, Tacoma, T100 (Std.,.020,.030,.040)

Volkswagen

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
4 Cylinder			4 Cylinder (Continued)					
1.8 (1780cc) (SOHC)	1983-93	1	2.0 (1984cc) ABA (SOHC)	1993-97	5			
1.8 (1780cc) PL (DOHC)	1986-89	2	2.0 (1984cc) AEG (SOHC)	1998-05	6			
1.9 (1896cc) 1Z (OHC)	1996-99	3	V6					
2.0 (1984cc) 9A (DOHC)	1990-93	4	2.8 (2792cc) AAA (SOHC)	1992-97	7			
Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description				
1	1.8 - (1780cc) 1983-93 (SOHC) - 4 Cylinder 81mm Bore							
	Chrome Piston Ring	2C4341	034 75 N0	1983-1988 "JH" Eng Code (.020,.030)				
		2C4341	034 75 N0	1986-1989 "RD,HT,UM,JN,GX" Eng Code (.020,.030)				
		2C4341	034 75 N0	1987-1993 "PF,RV,2H,ABG" Eng Code (.020,.030)				
		2C4341	034 75 N0	1990-1993 "PG" Eng Code (.020,.030)				
2	1.8 - (1780cc) 1986-89 (DOHC) PL - 4 Cylinder 81mm Bore							
	Chrome Piston Ring	2C4341	034 75 N0	(.020,.030)				
3	1.9 - (1896cc) 1996-99 (OHC) 1Z Diesel - 4 Cylinder 79.5mm Bore							
	Rod Bearing	BB4530J	029PS10248	(Std, 010, 020, 030)				
	Main Bearing	BC326J	029 HS 18067	Golf, Passat, New Beetle (Std, 020, 030, 040)				
4	2.0 - (1984cc) 1990-93 (DOHC) 9A - 4 Cylinder 82.5mm Bore							
	Moly Piston Ring	2M4639	034 88 N0	Passat,Jetta GLI, Golf 16 valve (Std.,.020,.030)				
5	2.0 - (1984cc) 1993-97 (SOHC) ABA - 4 Cylinder 82.5mm Bore							
	Moly Piston Ring	2M4639	034 88 N0	Jetta, Golf, Cabrio, GTI, Passat (Std.,.020,.030)				
6	2.0 - (1984cc) 1998-05 (SOHC) AEG - 4 Cylinder 82.5mm Bore							
	Moly Piston Ring	03050N	030 50 N0	New Beetle, Jetta, Golf Cabrio (Std.,.010,.020)				
	Piston	030600	0306000030203	New Beetle, Jetta, Golf Cabrio (Std, .004)				
		030601	0306012030203	New Beetle, Jetta, Golf Cabrio - Topped .010" (.010, .020)				

Volkswagen (Continued)

Line No.	Part Title	MAHLE Part No.	SAP Part No.	Description	
6	2.0 - (1984cc) 1998-05 (SOHC) AEG - 4 Cylinder 82.5mm Bore (Continued)				
Piston Specifications					
Part No.	030600		Part No.	030601	
Casting No.	82L78		Casting No.	82L78	
Clearance	0.0018 in. @ 0.394 in. from the bottom		Clearance	0.0018 in. @ 0.394 in. from the bottom	
Std. Cyl. Diameter	82.5 (3.24)		Std. Cyl. Diameter	82.5 (3.24)	
		030600		030601	

7	2.8 - (2792cc) 1992-97 (SOHC) AAA - V6 81.00mm Bore			
	Chrome Piston Ring	2C4921	029 95 N0	Jetta, Passat, Golf, Corrado (Std.,.020,.040)

Volvo

Engine		Year	Line	Engine		Year	Line	Engine		Year	Line
4 Cylinder 2.3 (2316cc) B23F, FT (SOHC)		1983-84	1	4 Cylinder (Continued) 2.3 (2316cc) B230F, FT (SOHC)		1985-95	2	4 Cylinder (Continued) 2.3 (2316cc) B234F (DOHC)		1989-92	3
Line No.	Part Title		MAHLE Part No.	SAP Part No.	Description						
1	2.3 - (2316cc) 1983-84 (SOHC) B23F, FT - 4 Cylinder 96mm Bore										
	Cast Piston Ring		5695	037 66 N0	240, 760 (.020,.030)						
2	2.3 - (2316cc) 1985-95 (SOHC) B230F, FT - 4 Cylinder 96mm Bore										
	Cast Piston Ring		4477	038 23 N0	240, 740, 780, 940 (.020,.030)						
	Piston		037660 037670	037660 037670	B230F Piston with rings B230FT Piston with rings						
Piston Specifications											
Part No.	037660				Part No.	037670					
Casting No.	96V28				Casting No.	96V28					
Clearance	*				Clearance	*					
Std. Cyl. Diameter	96.0 (3.77)				Std. Cyl. Diameter	96.0 (3.77)					
		037660				037670					
3	2.3 - (2316cc) 1989-92 (DOHC) B234F - 4 Cylinder 96mm Bore										
	Cast Piston Ring		4477	038 23 N0	740, 940 (.020,.030)						