

Catalog Number  
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2018

# AGRICULTURE, INDUSTRIAL & MARINE CATALOG

Stock & Performance Replacement parts for Agriculture, Industrial & Marine listings





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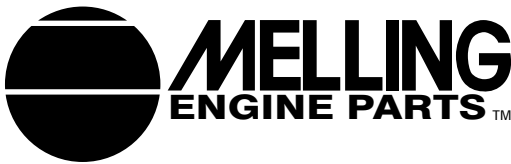
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# Key To Catalog Abbreviations

<b>ACC</b>	Accessory	<b>INT.</b>	Intake
<b>ADD'L</b>	Additional	<b>I.S.</b>	Intermediate Shaft
<b>ADJ.</b>	Adjustable	<b>L.H.</b>	Left Hand
<b>ATL.</b>	Altitude	<b>L.D.</b>	Light Duty
<b>ALUM.</b>	Aluminum	<b>L.P.G.</b>	Liquid Propane Gas
<b>ASSY.</b>	Assembly	<b>M.T.</b>	Manual Transmission
<b>A.T.</b>	Automatic Transmission	<b>MECH.</b>	Mechanical
<b>BRG.</b>	Bearing	<b>M.D.</b>	Medium Duty
<b>C.F.I.</b>	Central Fuel Injection	<b>M.F.I.</b>	Multi-Port Fuel Injection
<b>CNG</b>	Compressed Natural Gas	<b>N/A-N.A.</b>	Not Available
<b>DES.</b>	Design	<b>NO.</b>	Number
<b>D.I.</b>	Direct Inject	<b>OPT.</b>	Option
<b>DIA.</b>	Diameter	<b>O.E.</b>	Original Equipment
<b>DOHC</b>	Dual Overhead Cam	<b>O.A.I.</b>	Outside Air Injection
<b>E.F.I.</b>	Electronic Fuel Injection	<b>OHC</b>	Overhead Cam
<b>E.G.R.</b>	Exhaust Gas Recirculation	<b>OHV</b>	Overhead Valve
<b>EXC.</b>	Excluding-Except	<b>O/S</b>	Oversize
<b>EXH.</b>	Exhaust	<b>PERF</b>	Performance
<b>EXT.</b>	External	<b>P/C</b>	Police Car
<b>FED</b>	Federal	<b>P.G.</b>	Powerglide
<b>FIB.</b>	Fiber	<b>PREM.</b>	Premium
<b>FFV</b>	Flexible Fuel Vehicle	<b>R.W.D.</b>	Rear Wheel Drive
<b>4WD</b>	Four Wheel Drive	<b>R.H.</b>	Right Hand
<b>FWD</b>	Front Wheel Drive	<b>S/C</b>	Supercharged
<b>G.S.</b>	Grand Sport	<b>S.E.F.I.</b>	Sequential Electronic Fuel Injection
<b>G.V.W.</b>	Gross Vehicle Weight	<b>SOHC</b>	Single Overhead Cam
<b>H.D.</b>	Heavy Duty	<b>SPEC.</b>	Special
<b>HEX.</b>	Hexagon	<b>SQ.</b>	Square
<b>H.O.</b>	High Output	<b>STD.</b>	Standard
<b>H.M.</b>	Honda Matic	<b>SHO</b>	Super High Output
<b>H.S.C.</b>	High Swirl Combustion	<b>T.B.I.</b>	Throttle Body Injection
<b>HYD.</b>	Hydraulic	<b>T/C</b>	Turbocharged
<b>H4D</b>	Emission Control-Spring Operated E.F.E. Valve	<b>2WD</b>	Two Wheel Drive
<b>H5D</b>	Emission Control-Vacuum Operated E.F.E Valve	<b>U/S</b>	Undersize
<b>I/C</b>	Intercooler	<b>VOL.</b>	Volume
<b>IND.</b>	Industrial	<b>2BC</b>	Two Barrel Carburetor
<b>INJ.</b>	Injection	<b>4BC</b>	Four Barrel Carburetor

Before installing any part listed, consult the appropriate manufacturer's instruction manual for detailed installation instructions.



## LIMITED WARRANTY

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY OTHER WARRANTY, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OF QUALITY, WHETHER EXPRESS OR IMPLIED, EXCEPT THE WARRANTY OF TITLE. THE REMEDIES SET FORTH IN THIS WARRANTY ARE EXCLUSIVE.

All products sold by Melling Engine Parts, other than as referenced herein, are warranted to the initial consumer/owner for one (1) year from the date of installation, to be free from defects in materials or workmanship. This warranty is limited to either replacement of the defective product or refund of the purchase price, at the option of Melling Engine Parts.

There is no warranty applicable to these products: Any product that has been altered or tampered with, such as taken apart, misused, subject to excessive operating conditions, or that malfunctions because of foreign particles such as engine dirt or pieces of other deteriorating components, or products used in a vehicle that has been altered for other than its intended purposes, timing components sold individually, and performance products, including but not limited to, products used for off-road or racing purposes, are not covered by this warranty or any other warranty.

If the initial consumer/owner has a claim under this warranty, the product claimed to be defective must be returned to the place of purchase, then sent back, prepaid to Melling Engine Parts for inspection. If Melling Engine Parts determines that the product fails to conform to this warranty, it will either replace the product or refund its original purchase price, at the option of Melling Engine Parts. Failure to return the product for inspection will void this warranty. Jurisdiction: Any legal actions on claims arising out of this Warranty must be brought in the Courts located in and having jurisdiction in the State of Michigan, where Melling Engine Parts is located, and Michigan law will apply.

**This Melling Engine Parts warranty does not consider low or no oil pressure grounds for claims of extensive engine repairs nor replacement of damaged engines. This limitation is based on the fact that all vehicles have as standard equipment, either warning lights or gauges, to warn the operator of low oil pressure, low oil level, or no oil pressure, prior to the occurrence of engine damage. If an operator chooses to ignore these gauges or warning lights, or if the gauges or warning lights are not in operating condition, this constitutes negligence on the operator's part, and voids the consumer/owner's right to any warranty claim against Melling Engine Parts, which will not be responsible for the cost of any such extensive damages.**

Some states do not allow limitations on how long an implied warranty lasts or exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

### NOTE: WARRANTY DISCLAIMER

It is illegal to use some Melling performance camshafts in vehicles that are operated on the public streets and highways of California. Various other federal and state laws may limit the use of the camshafts to "off-highway" applications only. Check current federal and state laws to be sure.

The current version of this warranty can be found on [www.melling.com](http://www.melling.com) and takes legal precedence over printed versions including the Melling catalog.

# Specialty Items & Tools

## Melling Engine Priming Tools

Melling Engine Priming Tools are manufactured from the highest quality materials available. These tools will prevent galling problems by circulating oil through critical areas of a new engine before engine start-up.



**PT10**

Small Block & Big Block Chrysler



**PT11**

Fords with a 1/4" hex shaft



**PT12**

Fords with a 5/16" hex shaft



**PT13**

Small Block & Big Block Chevrolet

## Melling Screen Installation Tools

Melling Engine Parts supplies (2) tools for installing press-in type oil pump screen assemblies. The pumpbody should be placed on a small block of wood with the tool straight up and down. Start the screen straight into the hole by twisting and turning by hand before pounding. **UNDER NO CIRCUMSTANCES SHOULD THE SCREEN OR OIL PUMP BE HELD IN A VICE.** This will lock up the pump by crushing the gear pocket. The tool can be tapped with a hammer until the rolled bead on the collar of the screen tube is flush with the oil pump. This is a metal displacement press fit that only works once.



**MCAT-62**

For 5/8" diameter tubes

**MCAT-75**

For 3/4" diameter tubes



**MPL-101**

## Melling Pre-Lube Engine Oiler

### A must have tool to pre-lube engines

- Eliminates dry starts after engine rebuilds
- Eliminates initial wear on engine components
- Can be used on all internal combustion engines

## MELL-LUBE Engine Assembly Lube

### NEW IMPROVED PROTECTION 1,400 PPM ZINC

MELL-LUBE engine assembly lube contains a special additive that plates wear surfaces to prevent scoring or galling during engine start-up.

MELL-LUBE also contains corrosion inhibitors to prevent rust and pitting to new engines.

**NOTE: Not for use on cylinder walls or piston rings**



**M-10012**

4 oz. container



**M-10012G**

1 Gallon container

**ALLIS CHALMERS LIFT TRUCK**

Engine		Year	Line	Engine		Year	Line	Engine		Year	Line
4 Cyl. G153 D175 DIESEL			1 2	6 Cyl. G230			3				
Line No.	Part Title		Part No		Description						
1	G153 ENG - 4 Cyl. - 3 7/16 Bore (GAS)										
	Intake Valve		V1073		Head Dia. 1.438						
	Exhaust Valve		V0989		Head Dia. 1.375						
2	D175 DIESEL ENG - 4 Cyl. - 3 9/16 Bore										
	Exhaust Valve		V1041		Head Dia. 1.250 AFTER ENG. #D-05050						
3	G230 ENG - 6 Cyl. - 3 7/16 Bore										
	Intake Valve		V1073		Head Dia. 1.438						
	Exhaust Valve		V0989		Head Dia. 1.375						

**ALLIS CHALMERS TRACTOR**

Engine		Year	Line	Engine	Year	Line	Engine	Year	Line
4 Cyl.				4 Cyl. (Continued)			6 Cyl.		
116 & 125			1	G201		4	D262 DIESEL		6
139,149 & 160			2	G226 & W226		5	G262		7
D175 DIESEL			3						
Line No.	Part Title		Part No		Description				
1	116 & 125 ENG - 4 Cyl. - 3 7/8 Bore (B,1B,C,CA,RE,60H,TL6,B125)								
	Intake Valve		V0155		Head Dia. 1.438 125 ENG.				
2	139,149 & 160 ENG - 4 Cyl. - 3 1/2 Bore (D10,D12,D14,D15,H3,G138,G149,G160)								
	Intake Valve		V0155		Head Dia. 1.438				
3	D175 DIESEL ENG - 4 Cyl. - 3 9/16 Bore (D-15D,D-15DHC,HD3)								
	Exhaust Valve		V1041		Head Dia. 1.250 AFTER ENG. #D-05050				
4	G201 ENG - 4 Cyl. - 4.000 Bore								
	Intake Valve		V0169		Head Dia. 1.688 AFTER SER. #W84246				
	Exhaust Valve		V0168		Head Dia. 1.500 AFTER SER. #W84246				
5	G226 & W226 ENG - 4 Cyl. - 4 1/8 Bore								
	Intake Valve		V0169		Head Dia. 1.688 W226				
	Exhaust Valve		V0168		Head Dia. 1.500				
6	D262 DIESEL ENG - 6 Cyl. - 3 9/16 Bore								
	Exhaust Valve		V1041		Head Dia. 1.250 AFTER ENG. #D-01680				
7	G262 ENG - 6 Cyl. - 3 9/16 Bore								
	Exhaust Valve		V0989		Head Dia. 1.375				

**CASE TRACTOR**

Engine		Year	Line	Engine		Year	Line	Engine		Year	Line
4 Cyl. M38 & F124 124 G-148 & G-148B			1	4 Cyl. (Continued) G-188D DIESEL A-267D DIESEL			4	6 Cyl. A-401D DIESEL			6
			2				5				
			3								
Line No.	Part Title		Part No		Description						
1	M38 & F124 ENG - 4 Cyl. - 3.00 Bore		(V SERIES & CONTINENTAL)								
	Intake Valve		V0810 V0945		Head Dia. 1.516 DRILLED STEM Head Dia. 1.516 SINGLE GROOVE						
	Exhaust Valve		V0170 V0837		Head Dia. 1.203 DRILLED STEM Head Dia. 1.203 SINGLE GROOVE						
	Crank Gear		2603		24 TEETH						

**CASE TRACTOR (Continued)**

Line No.	Part Title	Part No	Description
<b>2</b>	<b>124 ENG - 4 Cyl. - 3 1/4 Bore (VA SERIES)</b>		
	Intake Valve	<b>V0269</b>	Head Dia. 1.328
<b>3</b>	<b>G-148 &amp; G-148B ENG - 4 Cyl. - 3 3/8 Bore</b>		
	Intake Valve	<b>V0269</b>	Head Dia. 1.328
<b>4</b>	<b>G-188D DIESEL ENG - 4 Cyl. - 3 3/16 Bore (MODELS 430,440,441,470,480,530,570,580B,630. WHEEL LOADERS W-3,W5A,480C,580C,1845. COMBINES 600 &amp; 650)</b>		
	Intake Valve	<b>V0691</b>	Head Dia 1.604
	Exhaust Valve	<b>V0690</b>	Head Dia. 1.403
<b>5</b>	<b>A-267D DIESEL ENG - 4 Cyl. - 4 1/8 Bore (SERIES 700,730,800)</b>		
	Intake Valve	<b>V0678</b>	Head Dia. 1.736
	Exhaust Valve	<b>V0679</b>	Head Dia. 1.484
<b>6</b>	<b>A-401D DIESEL ENG - 6 Cyl. - 4 1/8 Bore</b>		
	Intake Valve	<b>V0678</b>	Head Dia. 1.736
	Exhaust Valve	<b>V0679</b>	Head Dia. 1.484

**CATERPILLAR**

Engine		Year	Line	Engine		Year	Line	Engine		Year	Line
<b>8 Cyl.</b> 1099 DIESEL			1	<b>4 Cyl.</b> 425 DIESEL			3	<b>6 Cyl.</b> 638 DIESEL			5
<b>12 Cyl.</b> 1649 DIESEL			2	<b>8 Cyl.</b> 636 DIESEL			4	<b>893 DIESEL</b>			6
Line No.	Part Title		Part No		Description						
<b>1</b>	<b>1099 DIESEL ENG - 8 Cyl. - 5.400 Bore (MODEL 3408)</b>										
	Intake Valve		<b>V1462</b>		Head Dia. 1.770						
<b>2</b>	<b>1649 DIESEL ENG - 12 Cyl - 5.400 Bore (MODEL 3412)</b>										
	Intake Valve		<b>V1462</b>		Head Dia. 1.770						
<b>3</b>	<b>425 DIESEL ENG - 4 Cyl. - 4.75 Bore (MODEL D330,D330C &amp; D3304)</b>										
	Exhaust Valve		<b>V1205</b>		Head Dia. 1.896 W/TURBO						
<b>4</b>	<b>636 DIESEL ENG - 8 Cyl. - 4.500 Bore (MODEL 1160,3160,3208 &amp; 3208DI-T)</b>										
	Exhaust Valve		<b>V1378</b>		Head Dia. 1.804						
<b>5</b>	<b>638 DIESEL ENG - 6 Cyl. - 4.75 Bore (MODEL D333C,1673 &amp; 3306)</b>										
	Exhaust Valve		<b>V1205</b>		Head Dia. 1.896 W/TURBO						
<b>6</b>	<b>893 DIESEL ENG - 6 Cyl. - 5.400 Bore (MODEL 3406)</b>										
	Intake Valve		<b>V1462</b>		Head Dia. 1.770						

**CHRYLSEER-INDUSTRIAL**

Engine		Year	Line	Engine		Year	Line	Engine		Year	Line
<b>8 Cyl.</b> 18A,19A,24A,52 & 56 <b>6 Cyl.</b> 30 32 5,5A,6,6A,7,7A,8,8A			1	<b>8 Cyl.</b> 56A H318 HT318 H361 HT361 H383			5	<b>8 Cyl. (Continued)</b> H400 H413 HB & HT413 H440			11
			6				12				
			7				13				
			8				14				
			9								
			10								
Line No.	Part Title		Part No		Description						
1	18A,19A,24A,52 & 56 ENG - 8 Cyl.										
	Chain		348		68 LINKS						
	Crank Sprocket		S274		23 TEETH						
2	30 ENG - 6 Cyl. - 3 1/4 Bore										
	Cam Sprocket		S265		38 TEETH AFTER SER. #7259						
	Continued on Next Page										

Line No.	Part Title	Part No	Description
<b>2</b>	<b>30 ENG - 6 Cyl. - 3 1/4 Bore (Continued)</b>		
	Crank Sprocket	<b>S127</b> <b>S266</b>	19 TEETH BEFORE SER. #7259 19 TEETH AFTER SER. #7259
<b>3</b>	<b>32 ENG - 6 Cyl. - 3 7/16 Bore</b>		
	Cam Sprocket	<b>S265</b>	38 TEETH AFTER SER. #7259
	Crank Sprocket	<b>S127</b> <b>S266</b>	19 TEETH BEFORE SER. #7259 19 TEETH AFTER SER. #7259
<b>4</b>	<b>5,5A,6,6A,7,7A,8,8A ENG - 6 Cyl. - 3 1/4 Bore</b>		
	Crank Sprocket	<b>S127</b>	19 TEETH
<b>5</b>	<b>56A ENG - 8 Cyl. - 3 15/16 Bore</b>		
	Chain	<b>348</b>	68 LINKS
	Cam Sprocket	<b>S273</b>	46 TEETH
	Crank Sprocket	<b>S274</b>	23 TEETH
<b>6</b>	<b>H318 ENG - 8 Cyl. - 3.91 Bore</b>		
	Chain	<b>348</b>	68 LINKS
	Crank Sprocket	<b>S274</b>	23 TEETH
<b>7</b>	<b>HT318 ENG - 8 Cyl. - 3.91 Bore</b>		
	Exhaust Valve	<b>V0739</b>	Head Dia. 1.563
	Chain	<b>160</b>	68 LINKS
	Crank Sprocket	<b>S297</b>	23 TEETH
<b>8</b>	<b>H361 ENG - 8 Cyl. - 4 1/8 Bore</b>		
	Intake Valve	<b>V0548</b>	Head Dia. 2.080
	Chain	<b>495</b>	50 LINKS
	Crank Sprocket	<b>S291</b>	19 TEETH
<b>9</b>	<b>HT361 ENG - 8 Cyl. - 4 1/8 Bore</b>		
	Intake Valve	<b>V0577</b>	Head Dia. 1.880
	Exhaust Valve	<b>V1017</b>	Head Dia. 1.500 HARDFACED (STELLITE)
<b>10</b>	<b>H383 ENG - 8 Cyl. - 4 1/4 Bore</b>		
	Intake Valve	<b>V0548</b>	Head Dia. 2.080
	Chain	<b>495</b>	50 LINKS
	Crank Sprocket	<b>S291</b>	19 TEETH
<b>11</b>	<b>H400 ENG - 8 Cyl. - 4.342 Bore</b>		
	Intake Valve	<b>V0548</b>	Head Dia. 2.080
	3pc Set	<b>3-501SA</b>	INCLUDES 501, S366 & S367
	Chain	<b>501</b>	50 LINKS
	Cam Sprocket	<b>S366</b>	38 TEETH
<b>12</b>	<b>H413 ENG - 8 Cyl. - 4 3/16 Bore</b>		
	Intake Valve	<b>V0548</b>	Head Dia. 2.080
	Chain	<b>495</b>	50 LINKS
	Crank Sprocket	<b>S291</b>	19 TEETH
<b>13</b>	<b>HB &amp; HT413 ENG - 8 Cyl. - 4 3/16 Bore</b>		
	Intake Valve	<b>V0577</b>	Head Dia. 1.880
	Exhaust Valve	<b>V1017</b>	Head Dia. 1.500 HARDFACED (STELLITE)
<b>14</b>	<b>H440 ENG - 8 Cyl. - 4.320 Bore</b>		
	Intake Valve	<b>V0548</b>	Head Dia. 2.080
	Exhaust Valve	<b>V1156</b> <b>V1281</b>	Head Dia. 1.740 4 GROOVES Head Dia. 1.740 2 GROOVES



**CONTINENTAL**

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
<b>4 Cyl.</b> 4CYL-G176 4CYL-G193 4CYL-Y112 4CYL-Z120 4CYL-Z129 4CYL-Z134 4CYL-Z145 4CYL-F124		1 2 3 4 5 6 7 8	4CYL-F163 <b>4 Cyl.</b> 4CYL-F4124,F4140 4CYL-LY69,PY69 4CYL-LY91,PY91 4CYL-N62 4CYL-Y69 4CYL-Y91		9 10 11 12 13 14 15	<b>6 Cyl.</b> 6CYL-24B <b>4 Cyl.</b> 6CYL-F227  6CYL-F245 <b>6 Cyl.</b> 6CYL-F6209,F6226		16  17 18 19

Line No.	Part Title	Part No	Description
<b>1</b>	<b>4CYL-G176 ENG - 4 Cyl. - 3.655 Bore</b>		
	Intake Valve	<b>V0597</b>	Head Dia. 1.328 GAS
	Exhaust Valve	<b>V0596</b>	Head Dia. 1.203 GAS & LPG
<b>2</b>	<b>4CYL-G193 ENG - 4 Cyl. - 3 3/4 Bore</b>		
	Intake Valve	<b>V0867</b>	Head Dia. 1.641 GAS
	Exhaust Valve	<b>V1055</b>	Head Dia. 1.375 GAS
<b>3</b>	<b>4CYL-Y112 ENG - 4 Cyl. - 3 3/16 Bore</b>		
	Pump Kit	<b>K-27D</b>	
	Expansion Plug Kits	<b>MPE-159BR</b>  <b>MPE-159R</b>	BAGGED, BRASS KIT INCLUDES (4) MEP-11-B BLOCK, (1) MEP-13-B BLOCK BAGGED, STEEL KIT INCLUDES (4) MEP-11 BLOCK, (1) MEP-13 BLOCK
	Mechanical Lifters	<b>JB-729+1</b>	.001 O/S
	Intake Valve	<b>V0251</b> <b>V0825</b>	Head Dia. 1.203 DRILLED STEM Head Dia. 1.203 TAPER GROOVE
	Exhaust Valve	<b>V0250</b> <b>V0489</b> <b>V0824</b>	Head Dia. 1.015 DRILLED STEM Head Dia. 1.015 USE W/ROTOCAP Head Dia. 1.015 TAPER GROOVE
	Valve Springs	<b>VS-584</b>	
	Cam Gear	<b>2620</b>	56 TEETH OEM #Y400H299
<b>4</b>	<b>4CYL-Z120 ENG - 4 Cyl. - 3 3/16 Bore</b>		
	Pump Kit	<b>K-59</b>	
	Intake Valve	<b>V0234</b>	Head Dia. 1.015 DRILLED STEM
	Exhaust Valve	<b>V0489</b>	Head Dia. 1.015 GROOVED STEM
	Valve Springs	<b>VS-584</b>	
<b>5</b>	<b>4CYL-Z129 ENG - 4 Cyl. - 3 1/4 Bore</b>		
	Pump Kit	<b>K-59</b>	
	Intake Valve	<b>V0343</b>	Head Dia. 1.278
	Valve Springs	<b>VS-584</b>	
<b>6</b>	<b>4CYL-Z134 ENG - 4 Cyl. - 3 5/16 Bore</b>		
	Pump Kit	<b>K-59</b>	
	Intake Valve	<b>V0343</b>	Head Dia. 1.278
	Valve Springs	<b>VS-584</b>	
<b>7</b>	<b>4CYL-Z145 ENG - 4 Cyl. - 3 3/8 Bore</b>		
	Intake Valve	<b>V0343</b>	Head Dia. 1.278
<b>8</b>	<b>4CYL-F124 ENG - 4 Cyl. F135,F140,F162,F163</b>		
	Pump Kit	<b>K-27E</b>	USE W/M-27E,M-27H, M103,M104
	Oil Pump	<b>M-27C</b>	DOES NOT INCLUDE OIL PUMP SCREEN; REFER TO PHOTOS IN BACK OF CATALOG FOR CORRECT APPLICATION AND DETAILS; OIL PUMPS W/IRON GEARS SHOULD BE USED W/CAST IRON CAMS; OIL PUMPS W/STEEL GEARS SHOULD BE USED W/STEEL CAMS
	<i>Continued on Next Page</i>		

Line No.	Part Title	Part No	Description
<b>8</b>	<b>4CYL-F124 ENG - 4 Cyl.</b> F135,F140,F162,F163 (Continued)		
	Oil Pump	<b>M-27E</b>  <b>M-27H</b>  <b>M103</b>	REFER TO PHOTOS IN BACK OF CATALOG FOR CORRECT APPLICATION AND DETAILS. OIL PUMPS W/IRON GEARS SHOULD BE USED W/CAST IRON CAMS; OIL PUMPS W/STEEL GEARS SHOULD BE USED W/STEEL CAMS DOES NOT INCLUDE OIL PUMP SCREEN; REFER TO PHOTOS IN BACK OF CATALOG FOR CORRECT APPLICATION AND DETAILS; OIL PUMPS W/IRON GEARS SHOULD BE USED W/CAST IRON CAMS; OIL PUMPS W/STEEL GEARS SHOULD BE USED W/STEEL CAMS REFER TO PHOTOS IN BACK OF CATALOG FOR CORRECT APPLICATION AND DETAILS. OIL PUMPS W/IRON GEARS SHOULD BE USED W/CAST IRON CAMS; OIL PUMPS W/STEEL GEARS SHOULD BE USED W/STEEL CAMS
	Intermediate Shaft	<b>IS-27E</b>	USE WITH M-27E
	Mechanical Lifters	<b>JB-729+1</b>	.001 O/S
	Intake Valve	<b>V0810</b> <b>V0945</b> <b>V1148</b>	Head Dia. 1.516 DRILLED STEM F124, F140 & F162 Head Dia. 1.516 SINGLE GROOVE F124, F140 & F162 Head Dia. 1.516 F163
	Exhaust Valve	<b>V0170</b>  <b>V0196</b>  <b>V0361</b>  <b>V0837</b>	Head Dia. 1.203 DRILLED STEM 1 13/64 INCH HEAD F124, F140 & F162 Head Dia. 1.328 DRILLED STEM 1 21/64 INCH HEAD F124, F140 & F162 Head Dia. 1.328 ROTOTYPE 1 21/64 INCH HEAD F124, F140 & F162 Head Dia. 1.203 1 13/64 INCH HEAD USED W/ROTOCAP
	Valve Springs	<b>VS-584</b>	
	Cam Gear	<b>2660</b>	56 TEETH OEM #F400H406
	Crank Gear	<b>2603</b>	24 TEETH OEM #D600H300
<b>9</b>	<b>4CYL-F163 ENG - 4 Cyl. - 3.437 Bore</b> F163		
	Expansion Plug Kits	<b>MPE-160BR</b>  <b>MPE-160R</b>	BAGGED, BRASS KIT INCLUDES (1) MEP-10-B BLOCK, (2) MEP-12-B BLOCK, (1) MEP-13 BLOCK, (2) MPP-567 BAGGED, STEEL KIT INCLUDES (1) MEP-10 BLOCK, (2) MEP-12 BLOCK, (1) MEP-13 BLOCK, (2) MPP-567
<b>10</b>	<b>4CYL-F4124,F4140 ENG - 4 Cyl.</b> (& F4162 & F4162A ENGS)		
	Pump Kit	<b>K-27E</b>	USE W/M-27E,M-27H, M103,M104
	Oil Pump	<b>M-27C</b>       <b>M-27E</b>       <b>M-27H</b>       <b>M103</b>	DOES NOT INCLUDE OIL PUMP SCREEN; REFER TO PHOTOS IN BACK OF CATALOG FOR CORRECT APPLICATION AND DETAILS; OIL PUMPS W/IRON GEARS SHOULD BE USED W/CAST IRON CAMS; OIL PUMPS W/STEEL GEARS SHOULD BE USED W/STEEL CAMS REFER TO PHOTOS IN BACK OF CATALOG FOR CORRECT APPLICATION AND DETAILS. OIL PUMPS W/IRON GEARS SHOULD BE USED W/CAST IRON CAMS; OIL PUMPS W/STEEL GEARS SHOULD BE USED W/STEEL CAMS DOES NOT INCLUDE OIL PUMP SCREEN; REFER TO PHOTOS IN BACK OF CATALOG FOR CORRECT APPLICATION AND DETAILS; OIL PUMPS W/IRON GEARS SHOULD BE USED W/CAST IRON CAMS; OIL PUMPS W/STEEL GEARS SHOULD BE USED W/STEEL CAMS REFER TO PHOTOS IN BACK OF CATALOG FOR CORRECT APPLICATION AND DETAILS. OIL PUMPS W/IRON GEARS SHOULD BE USED W/CAST IRON CAMS; OIL PUMPS W/STEEL GEARS SHOULD BE USED W/STEEL CAMS
	Continued on Next Page		

**CONTINENTAL (Continued)**

Line No.	Part Title	Part No	Description
<b>10</b>	<b>4CYL-F4124,F4140 ENG - 4 Cyl. (&amp; F4162 &amp; F4162A ENGS) (Continued)</b>		
	Intermediate Shaft	<b>IS-27E</b>	USE WITH M-27E
	Mechanical Lifters	<b>JB-729+1</b>	.001 O/S
	Intake Valve	<b>V0810</b> <b>V0945</b>	Head Dia. 1.516 DRILLED STEM Head Dia. 1.516 SINGLE GROOVE
	Exhaust Valve	<b>V0170</b> <b>V0196</b> <b>V0361</b> <b>V0837</b>	Head Dia. 1.203 Head Dia. 1.328 DRILLED STEM Head Dia. 1.328 ROTOTYPE Head Dia. 1.203 USED W/ROTOCAP
	Valve Springs	<b>VS-584</b>	
	Crank Gear	<b>2603</b>	24 TEETH OEM #D600H300
<b>11</b>	<b>4CYL-LY69,PY69 ENG - 4 Cyl.</b>		
	Pump Kit	<b>K-27D</b>	
	Mechanical Lifters	<b>JB-729+1</b>	.001 O/S
	Intake Valve	<b>V0251</b> <b>V0825</b>	Head Dia. 1.203 DRILLED STEM Head Dia. 1.203 TAPER GROOVE
	Exhaust Valve	<b>V0250</b> <b>V0489</b> <b>V0824</b>	Head Dia. 1.015 DRILLED STEM Head Dia. 1.015 USE W/ROTOCAP Head Dia. 1.015 TAPER GROOVE
	Valve Springs	<b>VS-584</b>	
<b>12</b>	<b>4CYL-LY91,PY91 ENG - 4 Cyl. (PY112,V4069,Y4091,Y4112 ENGS)</b>		
	Pump Kit	<b>K-27D</b>	
	Mechanical Lifters	<b>JB-729+1</b>	.001 O/S
	Intake Valve	<b>V0251</b> <b>V0825</b>	Head Dia. 1.203 DRILLED STEM Head Dia. 1.203 TAPER GROOVE
	Exhaust Valve	<b>V0250</b> <b>V0489</b> <b>V0824</b>	Head Dia. 1.015 DRILLED STEM Head Dia. 1.015 USE W/ROTOCAP Head Dia. 1.015 TAPER GROOVE
	Valve Springs	<b>VS-584</b>	
<b>13</b>	<b>4CYL-N62 ENG - 4 Cyl. - 2 3/8 Bore</b>		
	Exhaust Valve	<b>V0285</b>	Head Dia. .890
<b>14</b>	<b>4CYL-Y69 ENG - 4 Cyl. - 2 3/4 Bore</b>		
	Gov. Cam Gear	<b>2609</b>	38 TEETH OEM #Y400H312
	Pump Kit	<b>K-27D</b>	
	Mechanical Lifters	<b>JB-729+1</b>	.001 O/S
	Intake Valve	<b>V0251</b> <b>V0825</b>	Head Dia. 1.203 DRILLED STEM Head Dia. 1.203 TAPER GROOVE
	Exhaust Valve	<b>V0250</b> <b>V0489</b> <b>V0824</b>	Head Dia. 1.015 DRILLED STEM Head Dia. 1.015 USE W/ROTOCAP Head Dia. 1.015 TAPER GROOVE
	Valve Springs	<b>VS-584</b>	
<b>15</b>	<b>4CYL-Y91 ENG - 4 Cyl. - 2 7/8 Bore</b>		
	Pump Kit	<b>K-27D</b>	
	Mechanical Lifters	<b>JB-729+1</b>	.001 O/S
	Intake Valve	<b>V0251</b> <b>V0825</b>	Head Dia. 1.203 DRILLED STEM Head Dia. 1.203 TAPER GROOVE
	Exhaust Valve	<b>V0250</b> <b>V0489</b> <b>V0824</b>	Head Dia. 1.015 DRILLED STEM Head Dia. 1.015 USE W/ROTOCAP Head Dia. 1.015 TAPER GROOVE
	Valve Springs	<b>VS-584</b>	
<b>16</b>	<b>6CYL-24B ENG - 6 Cyl. (F186,F209,F226,F227,F245 ENGS)</b>		
	Pump Kit	<b>K-27E</b>	USE W/M-27E, M-27K, M103, M105
	<i>Continued on Next Page</i>		

Line No.	Part Title	Part No	Description
<b>16</b>	<b>6CYL-24B ENG - 6 Cyl. (F186,F209,F226,F227,F245 ENGS) (Continued)</b>		
	Oil Pump	<b>M-27E</b>  <b>M-27K</b>  <b>M103</b>  <b>M105</b>	REFER TO PHOTOS IN BACK OF CATALOG FOR CORRECT APPLICATION AND DETAILS. OIL PUMPS W/IRON GEARS SHOULD BE USED W/CAST IRON CAMS; OIL PUMPS W/STEEL GEARS SHOULD BE USED W/STEEL CAMS INCLUDES OIL PUMP SCREEN; REFER TO PHOTOS IN BACK OF CATALOG FOR CORRECT APPLICATION AND DETAILS; OIL PUMPS W/IRON GEARS SHOULD BE USED W/CAST IRON CAMS; OIL PUMPS W/STEEL GEARS SHOULD BE USED W/STEEL CAMS REFER TO PHOTOS IN BACK OF CATALOG FOR CORRECT APPLICATION AND DETAILS. OIL PUMPS W/IRON GEARS SHOULD BE USED W/CAST IRON CAMS; OIL PUMPS W/STEEL GEARS SHOULD BE USED W/STEEL CAMS REFER TO PHOTOS IN BACK OF CATALOG FOR CORRECT APPLICATION AND DETAILS
	Intermediate Shaft	<b>IS-27E</b>	USE WITH M-27E
	Mechanical Lifters	<b>JB-729+1</b>	.001 O/S
	Intake Valve	<b>V0810</b> <b>V0945</b> <b>V1148</b>	Head Dia. 1.516 DRILLED STEM 24B, F186, F209 & F226 Head Dia. 1.516 SINGLE GROOVE 24B, F186, F209 & F226 Head Dia. 1.516 F227 & F245
	Exhaust Valve	<b>V0170</b> <b>V0196</b> <b>V0210</b> <b>V0361</b> <b>V1147</b>	Head Dia. 1.203 DRILLED STEM 24B & F209 Head Dia. 1.328 DRILLED STEM 24B, F186, F209 & F226 Head Dia. 1.328 USED W/ROTOCAP 24B, F186, F209 & F226 Head Dia. 1.328 ROTOTYPE 24B, F186, F209 & F226 Head Dia. 1.203 F227 & F245
	Cam Gear	<b>2620</b> <b>2652A</b> <b>2660</b>	56 TEETH OEM #F400403 PLAIN 56 TEETH F227 & F245 (ENG. SPEC. 8128-8124) OEM F400H418 56 TEETH OEM #F400H406
	Crank Gear	<b>2603</b> <b>2653</b> <b>2661</b>	24 TEETH OEM #D600H300 28 TEETH OEM F600H317 F227 & F245 (ENG. SPEC. 8128-8124) 28 TEETH OEM #F226H202
<b>17</b>	<b>6CYL-F227 ENG - 6 Cyl. - 3.313 Bore F227</b>		
	Expansion Plug Kits	<b>MPE-161BR</b>  <b>MPE-161R</b>	BAGGED, BRASS KIT INCLUDES (6) MEC-41-B BLOCK, (1) MEP-13-B BLOCK BAGGED, STEEL KIT INCLUDES (6) MEC-41 BLOCK, (1) MEP-13 BLOCK
<b>18</b>	<b>6CYL-F245 - 6 Cyl. - 3.437 Bore F245</b>		
	Expansion Plug Kits	<b>MPE-162BR</b>  <b>MPE-162R</b>	BAGGED, BRASS KIT INCLUDES (5) MPC-41-B BLOCK, (1) MEP-13-B BLOCK BAGGED, STEEL KIT INCLUDES (5) MPC-41 BLOCK, (1) MEP-13 BLOCK
<b>19</b>	<b>6CYL-F6209,F6226 ENG - 6 Cyl.</b>		
	Pump Kit	<b>K-27E</b>	USE W/M-27E, M-27K, M103, M105
	Oil Pump	<b>M-27E</b>       <b>M-27K</b>	REFER TO PHOTOS IN BACK OF CATALOG FOR CORRECT APPLICATION AND DETAILS. OIL PUMPS W/IRON GEARS SHOULD BE USED W/CAST IRON CAMS; OIL PUMPS W/STEEL GEARS SHOULD BE USED W/STEEL CAMS INCLUDES OIL PUMP SCREEN; REFER TO PHOTOS IN BACK OF CATALOG FOR CORRECT APPLICATION AND DETAILS; OIL PUMPS W/IRON GEARS SHOULD BE USED W/CAST IRON CAMS; OIL PUMPS W/STEEL GEARS SHOULD BE USED W/STEEL CAMS
	<i>Continued on Next Page</i>		

**CONTINENTAL (Continued)**

Line No.	Part Title	Part No	Description
<b>19</b>	<b>6CYL-F6209,F6226 ENG - 6 Cyl. (Continued)</b>		
	Oil Pump	<b>M103</b>  <b>M105</b>	REFER TO PHOTOS IN BACK OF CATALOG FOR CORRECT APPLICATION AND DETAILS. OIL PUMPS W/IRON GEARS SHOULD BE USED W/CAST IRON CAMS; OIL PUMPS W/STEEL GEARS SHOULD BE USED W/STEEL CAMS REFER TO PHOTOS IN BACK OF CATALOG FOR CORRECT APPLICATION AND DETAILS
	Mechanical Lifters	<b>JB-729+1</b>	.001 O/S
	Intake Valve	<b>V0810</b> <b>V0945</b>	Head Dia. 1.516 DRILLED STEM Head Dia. 1.516 SINGLE GROOVE
	Exhaust Valve	<b>V0170</b> <b>V0196</b> <b>V0210</b> <b>V0361</b>	Head Dia. 1.203 DRILLED STEM Head Dia. 1.328 DRILLED STEM Head Dia. 1.328 W/ROTOCAP Head Dia. 1.328 ROTOTYPE
	Chain	<b>505</b>	46 LINKS 3/4 INCH WIDE OEM F600H316
	Cam Gear	<b>2652</b> <b>2652A</b> <b>2660</b>	56 TEETH OEM #F209H203 56 TEETH OEM #F400H404 56 TEETH OEM #F400H406
	Crank Gear	<b>2603</b> <b>2653</b> <b>2661</b>	24 TEETH OEM #D600H300 28 TEETH OEM F600H317 28 TEETH OEM #F226H202

**CUMMINS**

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
12 Cyl. ALL OTHERS	1986-98	1	6 Cyl. (Continued) 6C SERIES (DIESEL)	1986-92	4	6 Cyl. (Continued) NTE SERIES		9
4B SERIES			5		NTF SERIES	10		
6 Cyl.		2	NT SERIES		6	POWER TORQUE		11
6B SERIES (DIESEL)		3	NTA SERIES		7	SUPER 250 & 270		12
			NTC SERIES		8			
Line No.	Part Title		Part No	Description				
1	ALL OTHERS ENG - 12 Cyl (V12-500-GC/GC,V12-500-M,V-525,V-1710,V-1710-460, V-1710-500,V-1710-L,V-1710-M,V-1710-P-500, V-1710-PG-500,VT-700,VT-1710 & VTA-1710)							
	Exhaust Valve		V0602	Head Dia. 1.875				
2	4B SERIES ENG - 4 Cyl. (AEROMASTER FLEET VANS)							
	Oil Pump		M351	OE# 3937027				
3	6B SERIES ENG - 6 Cyl.							
	Oil Pump		M251	OE# 4939587, 4939581, 3937027				
4	6C SERIES ENG - 6 Cyl.							
	Oil Pump		M350	OE# 3800828				
5	NH SERIES ENG - 6 Cyl. - 5.500 Bore (NHB NHBS,NHC,NHCT,NHD,NHE,NHF,NHH,NHHB,NHHRS,NHHRT NHHRTO,NHHT,NHHTC,NHHTCC,NHHTO,NHHRTO,NHK,NHRBS,NH NHS,NHTC & NHTF)							
	Exhaust Valve		V0602	Head Dia. 1.875 NH-230, NH-230-T, NH-250, NH-250-GS-GC, NH-250-M, NH-250-T, NH-400, NH-250, NHCT-270, NHCT-CT, NHD-230, NHD-230T, NHF-240, NHF-265, NHF-265T, NHH-250, NHHTC-250, NHHTC-290, NHHTC-290 FORMULA, NHHTC-335, NHHTC-350, NHHTCC-335, NHHTCC-350, NHTF-295				
6	NT SERIES ENG - 6 Cyl. - 5.500 Bore							
	Exhaust Valve		V0602	Head Dia. 1.875 SAME APPLICATION AS V0603				

**CUMMINS (Continued)**

Line No.	Part Title	Part No	Description
<b>7</b>	<b>NTA SERIES ENG - 6 Cyl.</b>		
	Exhaust Valve	<b>V0602</b>	Head Dia. 1.875 SAME APPLICATION AS V0603
<b>8</b>	<b>NTC SERIES ENG - 6 Cyl. (NTCC &amp; NTCE)</b>		
	Exhaust Valve	<b>V0602</b>	Head Dia. 1.875 SAME APPLICATION AS V0603
<b>9</b>	<b>NTE SERIES ENG - 6 Cyl. (NTE-290,NTE-290 BIG CAM,NTE-350,NTE-350-2, NTE-350 BIG CAM,NTE-370,NTE-370 BIG CAM,NTE-380-2, NTE-400,NTE-400-2,NTE-430,NTE-235 &amp; NTE-235-B1)</b>		
	Exhaust Valve	<b>V0602</b>	Head Dia. 1.875 SAME APPLICATION AS V0603
<b>10</b>	<b>NTF SERIES ENG - 6 Cyl. (NTF-255,NTF-295,NTF-365,NTFE-295 &amp; NTFE-365)</b>		
	Exhaust Valve	<b>V0602</b>	Head Dia. 1.875
<b>11</b>	<b>POWER TORQUE ENG - 6 Cyl. (270,270 BIG CAM III,E270,300D &amp; 330D)</b>		
	Exhaust Valve	<b>V0602</b>	Head Dia. 1.875
<b>12</b>	<b>SUPER 250 &amp; 270 ENG - 6 Cyl. - 5 1/2 Bore</b>		
	Exhaust Valve	<b>V0602</b>	Head Dia. 1.875

**DETROIT DIESEL**

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
<b>1 Cyl.</b> 1-71		1	<b>3 Cyl.</b> 3-53		16	<b>6 Cyl. (Continued)</b> 6-92		32
<b>12 Cyl.</b> 12-92		2	3-53N		17	6V-53		33
12V-71		3	3-71		18	6V-53N		34
12V-71N		4	3-71N		19	6V-71		35
12V-71T		5	<b>32 Cyl.</b> 32V-71N		20	6V-71N		36
<b>16 Cyl.</b> 16V-71		6	<b>4 Cyl.</b> 4-53		21	6V-92		37
16V-71N		7	4-53N		22	6V-92T		38
16V-71T		8	4-71		23	6V-92TTA		39
16V-92		9	4-71N		24	<b>8 Cyl.</b> 8-71		40
16V-92T		10	4-71T		25	8V-53N		41
16V-92TA		11	<b>6 Cyl.</b> 6-53		26	8V-71		42
<b>2 Cyl.</b> 2-53		12	6-71		27	8V-71N		43
2-71		13	6-71N		28	8V-71T		44
<b>24 Cyl.</b> 24V-71		14	6-71T		29	8V-92		45
24V-71N		15	6-71TA		30	8V-92T		46
			6-71TTA		31	8V-92TTA		47

Line No.	Part Title	Part No	Description
<b>1</b>	<b>1-71 ENG - 1 Cyl. - 4 1/4 Bore</b>		
	Exhaust Valve	<b>V0327</b> <b>V0411</b>	Head Dia. 1.584 VALVE CYL. HEAD, 30 DEGREE SEAT Head Dia. 1.588 OPTIONAL SUPER ALLOY (NICKEL) SAME APPLICATION AS V0327
<b>2</b>	<b>12-92 ENG - 12 Cyl - 4.84 Bore</b>		
	Exhaust Valve	<b>V1366</b>	Head Dia. 1.380 2 & 4 VALVE CYL. HEAD
<b>3</b>	<b>12V-71 ENG - 12 Cyl - 4 1/4 Bore</b>		
	Exhaust Valve	<b>V0411</b> <b>V1500</b>	Head Dia. 1.588 2 VALVE CYL. HEAD Head Dia. 1.180 4 VALVE CYL. HEAD
<b>4</b>	<b>12V-71N ENG - 12 Cyl - 4 1/4 Bore</b>		
	Exhaust Valve	<b>V1500</b>	Head Dia. 1.180 4 VALVE CYL. HEAD
<b>5</b>	<b>12V-71T ENG - 12 Cyl - 4 1/4 Bore</b>		
	Exhaust Valve	<b>V1500</b>	Head Dia. 1.180 4 VALVE CYL. HEAD

**DETROIT DIESEL (Continued)**

Line No.	Part Title	Part No	Description
<b>6</b>	<b>16V-71 ENG - 16 Cyl - 4 1/4 Bore</b>		
	Exhaust Valve	V1500	Head Dia. 1.180 4 VALVE CYL. HEAD
<b>7</b>	<b>16V-71N ENG - 16 Cyl - 4 1/4 Bore</b>		
	Exhaust Valve	V1500	Head Dia. 1.180 4 VALVE CYL. HEAD
<b>8</b>	<b>16V-71T ENG - 16 Cyl - 4 1/4 Bore</b>		
	Exhaust Valve	V1500	Head Dia. 1.180 4 VALVE CYL. HEAD
<b>9</b>	<b>16V-92 ENG - 16 Cyl - 4.84 Bore</b>		
	Exhaust Valve	V1366	Head Dia. 1.380 4 VALVE CYL. HEAD
<b>10</b>	<b>16V-92T ENG - 16 Cyl - 4.84 Bore</b>		
	Exhaust Valve	V1366	Head Dia. 1.380 4 VALVE CYL. HEAD
<b>11</b>	<b>16V-92TA ENG - 16 Cyl - 4.84 Bore</b>		
	Exhaust Valve	V1366	Head Dia. 1.380 4 VALVE CYL. HEAD
<b>12</b>	<b>2-53 ENG - 2 Cyl. - 3 7/8 Bore</b>		
	Exhaust Valve	V0758	Head Dia. 1.400 2 VALVE CYL. HEAD
		V0759	Head Dia. 1.090 4 VALVE CYL. HEAD
<b>13</b>	<b>2-71 ENG - 2 Cyl. - 4 1/4 Bore</b>		
	Exhaust Valve	V0327 V0411	Head Dia. 1.584 2 VALVE CYL. HEAD, 30 DEGREE SEAT Head Dia. 1.588 OPTIONAL SUPER ALLOY (NICKEL) SAME APPLICATION AS V0327
<b>14</b>	<b>24V-71 ENG - 24 Cyl - 4 1/4 Bore</b>		
	Exhaust Valve	V1500	Head Dia. 1.180 4 VALVE CYL. HEAD
<b>15</b>	<b>24V-71N ENG - 24 Cyl - 4 1/4 Bore</b>		
	Exhaust Valve	V1500	Head Dia. 1.180 4 VALVE CYL. HEAD
<b>16</b>	<b>3-53 ENG - 3 Cyl. - 3 7/8 Bore</b>		
	Exhaust Valve	V0758	Head Dia. 1.400 2 VALVE CYL. HEAD
		V0759	Head Dia. 1.090 4 VALVE CYL. HEAD
<b>17</b>	<b>3-53N ENG - 3 Cyl. - 3 7/8 Bore</b>		
	Exhaust Valve	V0759	Head Dia. 1.090 4 VALVE CYL. HEAD
<b>18</b>	<b>3-71 ENG - 3 Cyl. - 4 1/4 Bore</b>		
	Exhaust Valve	V0327 V0411	Head Dia. 1.584 2 VALVE CYL. HEAD, 30 DEGREE SEAT Head Dia. 1.588 OPTIONAL SUPER ALLOY (NICKEL) SAME APPLICATION AS V0327
<b>19</b>	<b>3-71N ENG - 3 Cyl. - 4 1/4 Bore</b>		
	Exhaust Valve	V1500	Head Dia. 1.180 4 VALVE CYL. HEAD
<b>20</b>	<b>32V-71N ENG - 32 Cyl - 4 1/4 Bore</b>		
	Exhaust Valve	V1500	Head Dia. 1.180 4 VALVE CYL. HEAD
<b>21</b>	<b>4-53 ENG - 4 Cyl. - 3 7/8 Bore</b>		
	Exhaust Valve	V0758	Head Dia. 1.400 2 VALVE CYL. HEAD
		V0759	Head Dia. 1.090 4 VALVE CYL. HEAD
<b>22</b>	<b>4-53N ENG - 4 Cyl. - 3 7/8 Bore</b>		
	Exhaust Valve	V0759	Head Dia. 1.090 4 VALVE CYL. HEAD
<b>23</b>	<b>4-71 ENG - 4 Cyl. - 4 1/4 Bore</b>		
	Exhaust Valve	V0327 V0411	Head Dia. 1.584 2 VALVE CYL. HEAD, 30 DEGREE SEAT Head Dia. 1.588 OPTIONAL SUPER ALLOY (NICKEL) SAME APPLICATION AS V0327
<b>24</b>	<b>4-71N ENG - 4 Cyl. - 4 1/4 Bore</b>		
	Exhaust Valve	V1500	Head Dia. 1.180 4 VALVE CYL. HEAD
<b>25</b>	<b>4-71T ENG - 4 Cyl. - 4 1/4 Bore</b>		
	Exhaust Valve	V1500	Head Dia. 1.180 4 VALVE CYL. HEAD

Line No.	Part Title	Part No	Description
<b>26</b>	<b>6-53 ENG - 6 Cyl. - 3 7/8 Bore</b>		
	Exhaust Valve	<b>V0758</b> <b>V0759</b>	Head Dia. 1.400 2 VALVE CYL. HEAD Head Dia. 1.090 4 VALVE CYL. HEAD
<b>27</b>	<b>6-71 ENG - 6 Cyl. - 4 1/4 Bore</b>		
	Exhaust Valve	<b>V0327</b> <b>V0411</b>	Head Dia. 1.584 4 VALVE CYL. HEAD, 30 DEGREE SEAT Head Dia. 1.588 OPTIONAL SUPER ALLOY (NICKEL) 30 DEGREE SEAT
<b>28</b>	<b>6-71N ENG - 6 Cyl. - 4 1/4 Bore</b>		
	Exhaust Valve	<b>V1500</b>	Head Dia. 1.180 4 VALVE CYL. HEAD
	Crank Gear	<b>2881</b>	78 TEETH
<b>29</b>	<b>6-71T ENG - 6 Cyl. - 4 1/4 Bore</b>		
	Exhaust Valve	<b>V1500</b>	Head Dia. 1.180 4 VALVE CYL. HEAD
<b>30</b>	<b>6-71TA ENG - 6 Cyl. - 4 1/4 Bore</b>		
	Exhaust Valve	<b>V1500</b>	Head Dia. 1.180 4 VALVE CYL. HEAD
<b>31</b>	<b>6-71TTA ENG - 6 Cyl. - 4 1/4 Bore</b>		
	Exhaust Valve	<b>V1500</b>	Head Dia. 1.180 4 VALVE CYL. HEAD
<b>32</b>	<b>6-92 ENG - 6 Cyl. - 4.84 Bore</b>		
	Exhaust Valve	<b>V1366</b>	Head Dia. 1.380 4 VALVE CYL. HEAD
<b>33</b>	<b>6V-53 ENG - 6 Cyl. - 3 7/8 Bore</b>		
	Exhaust Valve	<b>V0759</b>	Head Dia. 1.090 4 VALVE CYL. HEAD
<b>34</b>	<b>6V-53N ENG - 6 Cyl. - 3 7/8 Bore</b>		
	Exhaust Valve	<b>V0759</b>	Head Dia. 1.090 4 VALVE CYL. HEAD
<b>35</b>	<b>6V-71 ENG - 6 Cyl. - 4 1/4 Bore</b>		
	Camshafts Using Mechanical Lifters	<b>GMD-2</b> <b>GMD-3</b>	RIGHT BANK LEFT BANK
	Exhaust Valve	<b>V0411</b> <b>V1500</b>	Head Dia. 1.588 2 VALVE CYL. HEAD Head Dia. 1.180 4 VALVE CYL. HEAD
	Crank Gear	<b>2883</b>	78 TEETH
<b>36</b>	<b>6V-71N ENG - 6 Cyl. - 4 1/4 Bore</b>		
	Exhaust Valve	<b>V1500</b>	Head Dia. 1.180 4 VALVE CYL. HEAD, 30 DEGREE SEAT
<b>37</b>	<b>6V-71T ENG - 6 Cyl. - 4 1/4 Bore</b>		
	Exhaust Valve	<b>V1500</b>	Head Dia. 1.180 4 VALVE CYL. HEAD
<b>38</b>	<b>6V-92 ENG - 6 Cyl. - 4.84 Bore</b>		
	Exhaust Valve	<b>V1366</b>	Head Dia. 1.380
<b>39</b>	<b>6V-92T ENG - 6 Cyl. - 4.84 Bore</b>		
	Exhaust Valve	<b>V1366</b>	Head Dia. 1.380
<b>40</b>	<b>6V-92TTA ENG - 6 Cyl. - 4.84 Bore</b>		
	Exhaust Valve	<b>V1366</b>	Head Dia. 1.380
<b>41</b>	<b>8-71 ENG - 8 Cyl. - 4 1/4 Bore</b>		
	Exhaust Valve	<b>V1500</b>	Head Dia. 1.180 4 VALVE CYL. HEAD
<b>42</b>	<b>8V-53N ENG - 8 Cyl. - 3 7/8 Bore</b>		
	Exhaust Valve	<b>V0759</b>	Head Dia. 1.090 4 VALVE CYL. HEAD
<b>43</b>	<b>8V-71 ENG - 8 Cyl. - 4 1/4 Bore</b>		
	Camshafts Using Mechanical Lifters	<b>GMD-6</b>	RIGHT BANK
	Exhaust Valve	<b>V1500</b>	Head Dia. 1.180 4 VALVE CYL. HEAD
	Crank Gear	<b>2883</b>	78 TEETH



**DETROIT DIESEL (Continued)**

Line No.	Part Title	Part No	Description
<b>44</b>	<b>8V-71N ENG - 8 Cyl. - 4 1/4 Bore</b>		
	Exhaust Valve	V1500	Head Dia. 1.180 4 VALVE CYL. HEAD, 30 DEGREE SEAT
<b>45</b>	<b>8V-71T ENG - 8 Cyl. - 4 1/4 Bore</b>		
	Exhaust Valve	V1500	Head Dia. 1.180 4 VALVE CYL. HEAD, 30 DEGREE SEAT
<b>46</b>	<b>8V-92 ENG - 8 Cyl. - 4.84 Bore</b>		
	Exhaust Valve	V1366	Head Dia. 1.380 2 & 4 VALVE CYL. HEAD
	Crank Gear	2883	78 TEETH OEM #5117102
<b>47</b>	<b>8V-92T ENG - 8 Cyl. - 4.84 Bore</b>		
	Exhaust Valve	V1366	Head Dia. 1.380 2 & 4 VALVE CYL. HEAD
<b>48</b>	<b>8V-92TTA ENG - 8 Cyl. - 4.84 Bore</b>		
	Exhaust Valve	V1366	Head Dia. 1.380 2 & 4 VALVE CYL. HEAD

**FORD INDUSTRIAL**

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
<b>4 Cyl.</b>			<b>6 Cyl. (Continued)</b>			<b>8 Cyl. (Continued)</b>		
134		1	262		8	332		13
144 DIESEL		2	<b>8 Cyl.</b>			361		14
172 DIESEL & GAS		3	292		9	391		15
192 DIESEL & GAS		4	<b>6 Cyl.</b>			401		16
<b>6 Cyl.</b>			300		10	428		17
200 & 200 GP		5	<b>8 Cyl.</b>			460		18
223		6	330 HD		11	477		19
240		7	330 MD		12	534		20

Line No.	Part Title	Part No	Description
<b>1</b>	<b>134 ENG - 4 Cyl. - 3 7/16 Bore (E,E134,JE &amp; B8PE ENGS)</b>		
	Oil Pump	M-67B M-67E	1953-1967 1968-1978
	Intermediate Shaft	IS-67	
	Push Rods	MPR-80	
	Intake Valve	V0376	Head Dia. 1.647
	Exhaust Valve	V0348	Head Dia. 1.515 ROTOTYPE
	Valve Springs	VS-140	1953-1967
	Valve Locks	VL-200	1953-1967 2 GROOVES
	Gear Set	4710S	INCLUDES 4710 & 4701
<b>2</b>	<b>144 DIESEL ENG - 4 Cyl. - 3 9/16 Bore (DE ENGS)</b>		
	Oil Pump	M-67E	
	Push Rods	MPR-80	
	Valve Springs	VS-140	
	Valve Locks	VL-200	2 GROOVES
<b>3</b>	<b>172 DIESEL &amp; GAS ENG - 4 Cyl. - 3.9 Bore (172,B172,D172 &amp; B8PD ENGS)</b>		
	Oil Pump	M-67B M-67E	1955-1967 1968-1978
	Intermediate Shaft	IS-67	
	Push Rods	MPR-80	
	Intake Valve	V0376 V0609	Head Dia. 1.647 GAS ENG. Head Dia. 1.644 DIESEL ENG.
	Exhaust Valve	V0348 V0608	Head Dia. 1.515 GAS ENG. ROTOTYPE Head Dia. 1.513 DIESEL ENG. ROTOTYPE
	Valve Springs	VS-140	1955-1967
	Valve Locks	VL-200	1955-1967 2 GROOVES
	Gear Set	4710S	INCLUDES 4710 & 4701

Line No.	Part Title	Part No	Description
<b>4</b>	<b>192 DIESEL &amp; GAS ENG - 4 Cyl. - 4.130 Bore</b>		
	Oil Pump	<b>M-67E</b>	
	Intermediate Shaft	<b>IS-67</b>	
	Push Rods	<b>MPR-80</b>	
	Intake Valve	<b>V0376</b> <b>V0609</b>	Head Dia. 1.647 GAS ENG. Head Dia. 1.644 DIESEL ENG.
	Exhaust Valve	<b>V0348</b> <b>V0608</b>	Head Dia. 1.515 GAS ENG. ROTOTYPE Head Dia. 1.513 DIESEL ENG. ROTOTYPE
	Valve Locks	<b>VL-200</b>	2 GROOVES
<b>5</b>	<b>200 &amp; 200 GP ENG - 6 Cyl. - 3.680 Bore</b>		
	Pump Kit	<b>K-65B</b>	
	Oil Pump	<b>M-65B</b>	STANDARD SIZE NECK
	Screen Assy	<b>65-BS</b>	
	Camshafts Using Hydraulic Lifters	<b>CFC-3</b>	
	Push Rods	<b>MPR-313</b>	
	Hydraulic Lifters	<b>JB-2083</b>	
	Intake Valve	<b>V1357</b>	Head Dia. 1.753 1977 & UP
	Valve Locks	<b>VL-570</b>	
	Rocker Arm Shaft	<b>MRS-652</b>	
	3pc Set	<b>3-351S</b>	INCLUDES 351, S308 & S397
	Chain	<b>351</b>	50 LINKS
	Cam Sprocket	<b>S308</b>	38 TEETH
	Crank Sprocket	<b>S397</b>	19 TEETH
<b>6</b>	<b>223 ENG - 6 Cyl. - 3.625 Bore</b>		
	Oil Pump	<b>M-67</b>	
	Intermediate Shaft	<b>IS-67</b>	
	Push Rods	<b>MPR-80</b>	
	Valve Springs	<b>VS-140</b>	
	Valve Locks	<b>VL-200</b>	2 GROOVES
	3pc Set	<b>3-344S</b>	INCLUDES 344, S249 & S250
	Chain	<b>344</b>	56 LINKS
	Cam Sprocket	<b>S249</b>	42 TEETH
	Crank Sprocket	<b>S250</b>	21 TEETH
<b>7</b>	<b>240 ENG - 6 Cyl. - 4.00 Bore</b>		
	Pump Kit	<b>K-74</b>	EXCLUDING HI VOLUME
	Rocker Arm Ball	<b>MRM-1772</b>	W/OIL GROOVE
	Rocker Arm Nut	<b>MRM-1786</b>	3/8 INCH
	Oil Pump	<b>M-74</b> <b>M-74HV</b>	HI VOL PUMP-25% ADDL VOL OF OIL THAN STOCK PUMP. CHECK FOR PAN AND CRANK CLEARANCE
	Screen Assy	<b>74-S</b>	
	Intermediate Shaft	<b>IS-74</b>	
	Camshafts Using Hydraulic Lifters	<b>SYB-38</b>	
	Push Rods	<b>MPR-306</b>	
	Hydraulic Lifters	<b>JB-900</b>	
	Intake Valve	<b>V0963</b>	Head Dia. 1.779
	Exhaust Valve	<b>V1177</b>	Head Dia. 1.559
	Rocker Arms	<b>MR-876</b>	
	Rocker Arm Kit	<b>MRK-600</b>	KIT INCLUDES 1-MR-876 ARM, 1-MRM-1772 BALL, 1-MRM-1786 3/8 INCH NUT & 1-MRM-1791 5/16 INCH NUT
	Rocker Arm Stud	<b>MRDS-934</b> <b>MRDS-937</b>	STANDARD SIZE STANDARD SIZE .006 O/S
	<i>Continued on Next Page</i>		

**FORD INDUSTRIAL (Continued)**

Line No.	Part Title	Part No	Description
<b>7</b>	<b>240 ENG - 6 Cyl. - 4.00 Bore</b> (Continued)		
	Gear Set	<b>2764S</b>	CAST - REPLACE AS SET ONLY
<b>8</b>	<b>262 ENG - 6 Cyl. - 3 23/32 Bore</b> (G & C1PG ENGS)		
	Oil Pump	<b>M-67</b>	
	Push Rods	<b>MPR-80</b>	
	Crank Gear	<b>2748</b>	42 TEETH H.D.
<b>9</b>	<b>292 ENG - 8 Cyl. - 3 3/4 Bore</b> (K,K292 & B8PK ENGS)		
	Pump Kit	<b>K-56</b>	ROTOR TYPE
	Oil Pump	<b>M-42</b>	
	Push Rods	<b>MPR-73</b>	
	Intake Valve	<b>V0376</b>	Head Dia. 1.647 CONCAVE HEAD 1/8 INCH DEEP
	3pc Set	<b>3-344S</b>	INCLUDES 344, S249 & S250
	Chain	<b>344</b>	56 LINKS
	Cam Sprocket	<b>S249</b>	42 TEETH
	Crank Sprocket	<b>S250</b>	21 TEETH
<b>10</b>	<b>300 ENG - 6 Cyl. - 4.00 Bore</b>		
	Pump Kit	<b>K-74</b>	EXCLUDING HI VOLUME
	Rocker Arm Ball	<b>MRM-1772</b>	
	Rocker Arm Nut	<b>MRM-1786</b>	
	Oil Pump	<b>M-74</b> <b>M-74HV</b>	HI VOL PUMP-25% ADDL VOL OF OIL THAN STOCK PUMP. CHECK FOR PAN AND CRANK CLEARANCE
	Intermediate Shaft	<b>IS-74</b>	
	Camshafts Using Hydraulic Lifters	<b>SYB-38</b>	
	Push Rods	<b>MPR-306</b>	
	Hydraulic Lifters	<b>JB-900</b>	
	Intake Valve	<b>V1120</b>	Head Dia. 1.779
	Exhaust Valve	<b>V1177</b>	Head Dia. 1.559
	Valve Springs	<b>VS-850</b> <b>VS-890</b>	
	Valve Locks	<b>VL-200</b>	2 GROOVES
	Rocker Arms	<b>MR-876</b>	
	Rocker Arm Kit	<b>MRK-600</b>	KIT INCLUDES 1-MR-876 ARM, 1-MRM-1772 BALL, 1-MRM-1786 3/8 INCH NUT & 1-MRM-1791 5/16 INCH NUT
	Rocker Arm Stud	<b>MRDS-934</b> <b>MRDS-937</b>	STANDARD SIZE STANDARD SIZE .006 O/S
	Gear Set	<b>2764S</b>	CAST - REPLACE AS SET ONLY
<b>11</b>	<b>330 HD ENG - 8 Cyl. - 3 7/8 Bore</b> (C4PA,C4PD & C5PD ENGS)		
	Pump Kit	<b>K-57A</b>	USE W/ M-57A
	Oil Pump	<b>M-57A</b> <b>M-57AHV</b>	HI VOL PUMP-25% ADDL VOL OF OIL THAN STOCK PUMP. CHECK FOR PAN AND CRANK CLEARANCE
	Screen Assy	<b>57-AS</b>	
	Intermediate Shaft	<b>IS-57A</b>	
	Camshafts Using Hydraulic Lifters	<b>SYB-16</b>	
	Push Rods	<b>MPR-311</b> <b>MPR-311-A</b> <b>MPR-311-B</b>	STANDARD SIZE .060 O/S .060 U/S
	Hydraulic Lifters	<b>JB-2083</b>	
	Intake Valve	<b>V0918</b> <b>V1057</b>	Head Dia. 1.752 Head Dia. 1.752 HEAVY DUTY (HEAD COATED WITH SPECIAL ALLOY)
	<i>Continued on Next Page</i>		

Line No.	Part Title	Part No	Description
<b>11</b>	<b>330 HD ENG - 8 Cyl. - 3 7/8 Bore</b> (C4PA,C4PD & C5PD ENGS) (Continued)		
	Exhaust Valve	<b>V0917</b> <b>V0917+3</b>	Head Dia. 1.505 W/SEAL GROOVE Head Dia. 1.505 .003 OVERSIZE VALVE W/SEAL GROOVE
	Valve Locks	<b>VL-300</b>	2 GROOVES
	Rocker Arm Shaft	<b>MRS-641</b>	
<b>12</b>	<b>330 MD ENG - 8 Cyl. - 3 7/8 Bore</b> (C4PA,C4PD & C5PD ENGS)		
	Oil Pump	<b>M-57</b>  <b>M-57HP</b> <b>M-57HV</b>	STANDARD VOLUME AND PRESSURE; DOES NOT INCLUDE OIL PUMP SCREEN NON ADJ. USE W/ HYD LIFTERS HI PRESSURE OIL PUMP HI PRESSURE HI VOL PUMP; 25% ADDL VOL OF OIL; CHECK FOR PAN AND CRANK CLEARANCE; DOES NOT INCLUDE OIL PUMP SCREEN
	Intermediate Shaft	<b>IS-60</b>	
	Camshafts Using Hydraulic Lifters	<b>SYB-16</b>	
	Push Rods	<b>MPR-311</b> <b>MPR-311-A</b> <b>MPR-311-B</b> <b>MPR-312</b>	1964-1969 STANDARD SIZE 1964-1969 .060 O/S 1964-1969 .060 U/S 1970-1976
	Hydraulic Lifters	<b>JB-2083</b>	
	Intake Valve	<b>V0949</b> <b>V0949+15</b> <b>V0949+3</b>	Head Dia. 1.752 Head Dia. 1.752 .015 OVERSIZE STEEL VALVE Head Dia. 1.752 .003 OVERSIZE STEEL VALVE
	Exhaust Valve	<b>V1217</b> <b>V1332</b>	1970-1976 Head Dia. 1.508 1964-1969 Head Dia. 1.508
	Valve Springs	<b>VS-160</b>	
	Valve Locks	<b>VL-300</b>	2 GROOVES
	Rocker Arm Shaft	<b>MRS-641</b>	
<b>13</b>	<b>332 ENG - 8 Cyl. - 3.8 Bore</b> (L,L332 & B6PL ENGS)		
	Pump Kit	<b>K-56</b>	ROTOR TYPE
	Oil Pump	<b>M-42</b>	
	Push Rods	<b>MPR-80</b>	
	Valve Springs	<b>VS-140</b>	
	Valve Locks	<b>VL-200</b>	2 GROOVES
	Cam Gear	<b>2733</b>	60 TEETH
<b>14</b>	<b>361 ENG - 8 Cyl. - 4.05 Bore</b> (C4PB ENG)		
	Pump Kit	<b>K-57A</b>	USE W/ M-57A
	Oil Pump	<b>M-57A</b> <b>M-57AHV</b>	HI VOL PUMP-25% ADDL VOL OF OIL THAN STOCK PUMP. CHECK FOR PAN AND CRANK CLEARANCE
	Screen Assy	<b>57-AS</b>	
	Intermediate Shaft	<b>IS-57A</b>	
	Camshafts Using Hydraulic Lifters	<b>SYB-16</b>	
	Push Rods	<b>MPR-311</b> <b>MPR-312</b>	1964-1969 STANDARD SIZE 1970-1976
	Hydraulic Lifters	<b>JB-2083</b>	
	Intake Valve	<b>V0918</b> <b>V1057</b>	Head Dia. 1.752 Head Dia. 1.752 HEAVY DUTY (HEAD COATED WITH SPECIAL ALLOY)
	Exhaust Valve	<b>V0917</b> <b>V0917+3</b>	Head Dia. 1.505 W/SEAL GROOVE Head Dia. 1.505 .003 OVERSIZE VALVE W/SEAL GROOVE
	Rocker Arm Shaft	<b>MRS-641</b>	

**FORD INDUSTRIAL (Continued)**

Line No.	Part Title	Part No	Description
<b>15</b>	<b>391 ENG - 8 Cyl. - 4.05 Bore (C4PC ENGS)</b>		
	Pump Kit	<b>K-57A</b>	USE W/ M-57A
	Oil Pump	<b>M-57A</b> <b>M-57AHV</b>	HI VOL PUMP-25% ADDL VOL OF OIL THAN STOCK PUMP. CHECK FOR PAN AND CRANK CLEARANCE
	Screen Assy	<b>57-AS</b>	
	Intermediate Shaft	<b>IS-57A</b>	
	Camshafts Using Hydraulic Lifters	<b>SYB-16</b>	
	Push Rods	<b>MPR-311</b> <b>MPR-312</b>	1964-1969 STANDARD SIZE 1970-1976
	Hydraulic Lifters	<b>JB-2083</b>	
	Intake Valve	<b>V0918</b> <b>V1057</b>	Head Dia. 1.752 Head Dia. 1.752 HEAVY DUTY (HEAD COATED WITH SPECIAL ALLOY)
	Exhaust Valve	<b>V0917</b> <b>V0917+3</b>	Head Dia. 1.505 W/SEAL GROOVE Head Dia. 1.505 .003 OVERSIZE VALVE W/SEAL GROOVE
	Rocker Arm Shaft	<b>MRS-641</b>	
<b>16</b>	<b>401 ENG - 8 Cyl. - 4 1/8 Bore (B8PQ &amp; Q ENGS)</b>		
	Oil Pump	<b>M-75</b>	
	Push Rods	<b>MPR-82-A</b>	
	Mechanical Lifters	<b>JB-872</b>	
	Intake Valve	<b>V0531</b>	Head Dia. 2.020
	Exhaust Valve	<b>V0530</b>	Head Dia. 1.635
	Valve Springs	<b>VS-900</b>	1969-1970
	Valve Locks	<b>VL-590</b>	
	Rocker Arm Shaft	<b>MRS-656</b>	
	Crank Gear	<b>2737</b>	55 TEETH
<b>17</b>	<b>428 ENG - 8 Cyl. - 4.13 Bore</b>		
	Oil Pump	<b>M-57</b> <b>M-57HP</b>	STANDARD VOLUME AND PRESSURE; DOES NOT INCLUDE OIL PUMP SCREEN HI PRESSURE OIL PUMP HI PRESSURE
	Screen Assy	<b>57-AS</b>	
	Intermediate Shaft	<b>IS-60</b>	
	Push Rods	<b>MPR-311</b>	STANDARD SIZE
	Hydraulic Lifters	<b>JB-2083</b>	
	Intake Valve	<b>V0918</b> <b>V0949</b> <b>V0949+15</b>  <b>V0949+3</b>	1969 To 3/4/71 Head Dia. 1.752 From 3/4/71 TO 1975 Head Dia. 1.752 From 3/4/71 TO 1975 Head Dia. 1.752 .015 OVERSIZE STEEL VALVE From 3/4/71 TO 1975 Head Dia. 1.752 .003 OVERSIZE STEEL VALVE
	Exhaust Valve	<b>V0917</b> <b>V0917+3</b>  <b>V1217</b>	1969 To 3/4/71 Head Dia. 1.505 W/SEAL GROOVE 1969 To 3/4/71 Head Dia. 1.505 .003 OVERSIZE VALVE W/SEAL GROOVE From 3/4/71 TO 1975 Head Dia. 1.508 W/O SEAL GROOVE
	Rocker Arm Shaft	<b>MRS-641</b>	
<b>18</b>	<b>460 ENG - 8 Cyl. - 4.360 Bore</b>		
	Pump Kit	<b>K-84</b>	
	Rocker Arm Bolt	<b>MRM-1740</b>	
	Rocker Arm Fulcrum	<b>MRM-1776</b>	
	Oil Pump	<b>M-84D</b>	STANDARD VOLUME HIGH PRESSURE; DOES NOT INCLUDE OIL PUMP SCREEN
	Screen Assy	<b>84-DS1</b>	
	<i>Continued on Next Page</i>		

**FORD INDUSTRIAL (Continued)**

Line No.	Part Title	Part No	Description
<b>18</b>	<b>460 ENG - 8 Cyl. - 4.360 Bore (Continued)</b>		
	Intermediate Shaft	<b>IS-84</b>	
	Camshafts Using Hydraulic Lifters	<b>SYB-19</b>	HYD.
	Push Rods	<b>MPR-274</b>	8.550 O.A.L
	Hydraulic Lifters	<b>JB-900</b>	
	Intake Valve	<b>V1272</b> <b>V1723</b>	Head Dia. 2.083 INDUSTRIAL & MARINE Head Dia. 2.083 E.F.I.
	Valve Springs	<b>VS-840</b>	
	Valve Locks	<b>VL-200</b>	2 GROOVES
	Rocker Arms	<b>MR-888</b>	
	Rocker Arm Kit	<b>MRK-547</b>	KIT INCLUDES 1-MR-888 ARM, 1-MRM-1776 FULCRUM & 1-MRM-1740 BOLT
	3pc Set	<b>3-491S</b>	INCLUDES 491, S420, S421
	Chain	<b>491</b>	52 LINKS
	Cam Sprocket	<b>S420</b>	36 TEETH
<b>19</b>	<b>477 ENG - 8 Cyl. - 4 1/2 Bore (B8PM &amp; M ENGS)</b>		
	Oil Pump	<b>M-75</b>	
	Push Rods	<b>MPR-82-A</b>	
	Mechanical Lifters	<b>JB-872</b>	
	Intake Valve	<b>V0531</b>	Head Dia. 2.020
	Exhaust Valve	<b>V0530</b>	Head Dia. 1.635
	Valve Springs	<b>VS-900</b>	1967-1970
	Valve Locks	<b>VL-590</b>	
	Rocker Arm Shaft	<b>MRS-656</b>	
	Crank Gear	<b>2737</b>	55 TEETH
<b>20</b>	<b>534 ENG - 8 Cyl. - 4 1/2 Bore (B8PN &amp; N ENGS)</b>		
	Oil Pump	<b>M-75</b>	
	Intermediate Shaft	<b>IS-75</b>	
	Push Rods	<b>MPR-82-A</b>	
	Mechanical Lifters	<b>JB-872</b>	
	Intake Valve	<b>V0531</b>	Head Dia. 2.020
	Exhaust Valve	<b>V0530</b>	Head Dia. 1.635
	Valve Springs	<b>VS-900</b>	1967-1970
	Valve Locks	<b>VL-590</b>	
	Rocker Arm Shaft	<b>MRS-656</b>	
	Crank Gear	<b>2737</b>	55 TEETH

**FORD TRACTOR**

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line	
<b>4 Cyl.</b> 120 134 GAS & LPG 134 KEROSENE 144 DIESEL	1939-52	1	<b>4 Cyl.</b> 172 DIESEL 172 GAS & KEROSENE	1958-64	6	<b>6 Cyl.</b> 223 GAS & LPG <b>4 Cyl.</b> 233 DIESEL & GAS 256 DIESEL & GAS	1961-69	11	
	1953-64	2		1955-64	7				
	1953-57	3		1965-74	8		1965-81	12	
	1958-64	4			1965-78		9	1968-81	13
<b>3 Cyl.</b> 158 DIESEL & GAS	1965-74	5	201 DIESEL & GAS	1965-81	10	<b>6 Cyl.</b> 401D & 401DT	1977-84	14	
Line No.	Part Title		Part No	Description					
1	120 ENG - 1939-52 - 4 Cyl. - 3 3/16 Bore (MODELS 2N,8N & 9N)								
	Pump Kit		K-34 K-35	ALL INCLUDING 8N TO ENGINE #247571 (.565 GEAR LENGTH) 8N AFTER ENGINE #247570 (.724 GEAR LENGTH)					
	Intermediate Shaft		G-39A G-39B	SHAFT & GEAR ALL INCLUDING 8N TO ENGINE #247571 SHAFT & GEAR 8N AFTER ENGINE #247570					
	Continued on Next Page								

**FORD TRACTOR (Continued)**

Line No.	Part Title	Part No	Description
<b>1</b>	<b>120 ENG - 1939-52 - 4 Cyl. - 3 3/16 Bore</b> (MODELS 2N,8N & 9N) (Continued)		
	Exhaust Valve	<b>V0173</b> <b>V0173</b> <b>V0220</b> <b>V0220</b> <b>V0270</b>	1939-1947 Head Dia. 1.280 EXC. ROTOTYPE 1948 Head Dia. 1.280 EXC. ROTOTYPE BEFORE SER 42162 1948 Head Dia. 1.281 EXC. ROTOTYPE AFTER SER 42162 1949-1952 Head Dia. 1.281 EXC. ROTOTYPE 1939-1952 Head Dia. 1.281 ROTOTYPE
	Valve Locks	<b>VL-200</b>	1948 2 GROOVES AFTER SER. #42161 INT. & EXH. EXC. ROTO TYPE
	Cam Gear	<b>4706</b>	44 TEETH EXC. 1939-41 9N
<b>2</b>	<b>134 GAS &amp; LPG ENG - 1953-64 - 4 Cyl. - 3 7/16 Bore</b> (MODELS NAA,501,600,601,700,701,2030,2031,2110, 2111,2120,2130 & 2131)		
	Oil Pump	<b>M-40</b> <b>M-44</b> <b>M-67C</b>	1953-1954 GEAR TYPE SLOTTED DRIVESHAFT MODELS NAA 1955-1964 GEAR TYPE HEX DRIVESHAFT ALL MODELS EXC. NAA 1953-1954 ROTOR TYPE NAA MODELS
	Intermediate Shaft	<b>IS-43</b> <b>IS-43</b>	SAME APPLICATION AS M-44 OIL PUMP 1955-1964 GEAR TYPE HEX DRIVESHAFT ALL MODELS EXCLUDING NAA
	Push Rods	<b>MPR-80</b>	
	Intake Valve	<b>V0376</b>	Head Dia. 1.647
	Exhaust Valve	<b>V0348</b>	Head Dia. 1.515 ROTOTYPE
	Valve Springs	<b>VS-140</b>	
	Valve Locks	<b>VL-200</b>	2 GROOVES
	Gear Set	<b>4710S</b>	INCLUDES 4710 & 4701
<b>3</b>	<b>134 KEROSENE ENG - 1953-57 - 4 Cyl. - 3 7/16 Bore</b> (MODELS NAA,600 & 700)		
	Oil Pump	<b>M-44</b> <b>M-67C</b>	1955-1957 GEAR TYPE 600 & 700 MODELS 1953-1954 ROTOR TYPE NAA MODELS
	Intermediate Shaft	<b>IS-67</b>	1955-1957 GEAR TYPE- 600 & 700 MODELS
	Push Rods	<b>MPR-80</b>	
	Intake Valve	<b>V0376</b>	Head Dia. 1.647
	Exhaust Valve	<b>V0348</b>	Head Dia. 1.515 ROTOTYPE
	Valve Springs	<b>VS-140</b>	
	Valve Locks	<b>VL-200</b>	2 GROOVES
	Gear Set	<b>4710S</b>	INCLUDES 4710 & 4701
<b>4</b>	<b>144 DIESEL ENG - 1958-64 - 4 Cyl. - 3 9/16 Bore</b> (MODELS 501,AFTER SER# 153775,601,701,2030,2031,211 2111,2120,2130 & 2131)		
	Oil Pump	<b>M-67E</b>	
	Intermediate Shaft	<b>IS-67</b>	
	Push Rods	<b>MPR-80</b>	
	Valve Springs	<b>VS-140</b>	
	Valve Locks	<b>VL-200</b>	2 GROOVES
	Gear Set	<b>4710S</b>	INCLUDES 4710 & 4701
<b>5</b>	<b>158 DIESEL &amp; GAS ENG - 1965-74 - 3 Cyl. - 4.2 Bore</b> (MODELS 2000,3000 & 4000)		
	Pump Kit	<b>K-89</b>	
	Oil Pump	<b>M-89</b>	
<b>6</b>	<b>172 DIESEL ENG - 1958-64 - 4 Cyl. - 3.9 Bore</b> (MODELS 801,901,1801,4000,4030,4031,4040,4110,4120, 4121,4130,4131 & 4140)		
	Oil Pump	<b>M-67B</b> <b>M-67E</b>	1961-1964 1958-1960
	Intermediate Shaft	<b>IS-67</b>	
	Push Rods	<b>MPR-80</b>	
	Intake Valve	<b>V0609</b>	Head Dia. 1.644
	Exhaust Valve	<b>V0608</b>	Head Dia. 1.513 ROTOTYPE
	Valve Springs	<b>VS-140</b>	
	Continued on Next Page		

Line No.	Part Title	Part No	Description
<b>6</b>	<b>172 DIESEL ENG - 1958-64 - 4 Cyl. - 3.9 Bore</b> (MODELS 801,901,1801,4000,4030,4031,4040,4110,4120, 4121,4130,4131 & 4140) (Continued)		
	Valve Locks	<b>VL-200</b>	2 GROOVES
	Gear Set	<b>4710S</b>	INCLUDES 4710 & 4701
<b>7</b>	<b>172 GAS &amp; KEROSENE ENG - 1955-64 - 4 Cyl. - 3.9 Bore</b> (MODELS 800,801,900,901,1801,4000, 4030,4031,4040,4110,4120,4121,4130,4131)		
	Oil Pump	<b>M-44</b> <b>M-67B</b>	GEAR TYPE ROTOR TYPE
	Intermediate Shaft	<b>IS-43</b> <b>IS-67</b>	GEAR TYPE ROTOR TYPE
	Push Rods	<b>MPR-80</b>	
	Intake Valve	<b>V0376</b>	Head Dia. 1.647
	Exhaust Valve	<b>V0348</b>	Head Dia. 1.515 ROTOTYPE
	Valve Springs	<b>VS-140</b>	
	Valve Locks	<b>VL-200</b>	2 GROOVES
	Gear Set	<b>4710S</b>	INCLUDES 4710 & 4701
<b>8</b>	<b>175 DIESEL ENG - 1965-74 - 3 Cyl. - 4.2 Bore</b> (MODELS 2000 & 3000)		
	Pump Kit	<b>K-89</b>	
	Oil Pump	<b>M-89</b>	
<b>9</b>	<b>192 GAS ENG - 1955-78 - 3 Cyl. - 4.4 Bore</b> (MODELS 4000)		
	Pump Kit	<b>K-89</b>	1965-1978
	Oil Pump	<b>M-67B</b> <b>M-89</b>	1955-1964 1965-1978
	Intermediate Shaft	<b>IS-67</b>	1955-1964
	Valve Locks	<b>VL-200</b>	2 GROOVES
<b>10</b>	<b>201 DIESEL &amp; GAS ENG - 1965-81 - 3 Cyl. - 4.4 Bore</b> (MODELS 4000 & 5000)		
	Pump Kit	<b>K-89</b>	
	Oil Pump	<b>M-89</b>	
<b>11</b>	<b>223 GAS &amp; LPG ENG - 1961-69 - 6 Cyl. - 3.625 Bore</b> (MODELS 6000)		
	Oil Pump	<b>M-67</b>	MODEL 6000 GAS
	Intermediate Shaft	<b>IS-67</b>	MODEL 6000 GAS
	Push Rods	<b>MPR-80</b>	
	Exhaust Valve	<b>V0375</b>	1961-1963 Head Dia. 1.510 USED W/ROTOCAP
	Valve Springs	<b>VS-140</b>	
	Valve Locks	<b>VL-200</b>	2 GROOVES
<b>12</b>	<b>233 DIESEL &amp; GAS ENG - 1965-81 - 4 Cyl. - 4.2 Bore</b> (MODELS 3000 & 5000)		
	Pump Kit	<b>K-89</b>	
	Oil Pump	<b>M-89</b>	
<b>13</b>	<b>256 DIESEL &amp; GAS ENG - 1968-81 - 4 Cyl. - 4.4 Bore</b> (MODELS 4000 & 5000)		
	Pump Kit	<b>K-89</b>	
	Oil Pump	<b>M-89</b>	
<b>14</b>	<b>401D &amp; 401DT ENG - 1977-84 - 6 Cyl. - 4.400 Bore</b> (DIESEL & TURBO DIESEL) (MODELS 9600,9700) (A64,A66 WHEELED LOADER SERIES)		
	Oil Pump	<b>M164</b>	OVERALL LENGTH OF PUMP FROM MOUNTING SURFACE TO COVER BOLTS IS 4.812



## HERCULES

Engine		Year	Line	Engine	Year	Line	Engine	Year	Line
DD & GO 130,149,169, <b>4 Cyl.</b> JX4 SERIES			1	<b>6 Cyl.</b> JXA,B,C,D,G JXE3  NXA,NXB,1XA,1XB,1XBL		3	<b>4 Cyl.</b> OOA,OOB,OOO  <b>6 Cyl.</b> QXA,B,C,D,QXLD 3 & 5		6
			2			4			7
			5						
Line No.	Part Title		Part No		Description				
<b>1</b>	<b>DD &amp; GO 130,149,169, ENG</b> (173,198,226,260,298,339)								
	Exhaust Valve		<b>V0686</b>		Head Dia. 1.500				
<b>2</b>	<b>JX4 SERIES ENG - 4 Cyl.</b> (EXC. HYD. PUMP)								
	Crank Gear		<b>3033</b>		25 TEETH				
<b>3</b>	<b>JXA,B,C,D,G ENG - 6 Cyl. - 3 3/8 Bore</b>								
	Crank Gear		<b>3033</b>		25 TEETH				
<b>4</b>	<b>JXE3 ENG - 6 Cyl.</b>								
	Crank Gear		<b>3033</b>		25 TEETH				
<b>5</b>	<b>NXA,NXB,1XA,1XB,1XBL ENG</b>								
	Intake Valve		<b>V0132</b>		Head Dia. 1.484				
	Exhaust Valve		<b>V0131</b>		Head Dia. 1.359				
<b>6</b>	<b>OOA,OOB,OOO ENG - 4 Cyl. - 3 1/2 Bore</b>								
	Crank Gear		<b>3033</b>		25 TEETH				
<b>7</b>	<b>QXA,B,C,D,QXLD 3 &amp; 5 ENG - 6 Cyl.</b> (QXD 3 & 5)								
	No Parts Available		-						

## I.H.C. TRACTOR & POWER UNITS

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
4 Cyl. C60 C113 C123 C135 C146 C152 C153 C157 C164 D166 DIESEL C169 C175 D188 DIESEL C200		1	6 Cyl. C221		15	6 Cyl. (Continued) D301 DIESEL		26
		2	D236 DIESEL		16	8 Cyl. V304		27
		3	4 Cyl.		17	6 Cyl. D312 DIESEL		28
		4	C248			8 Cyl. V345		29
		5	6 Cyl.		18	6 Cyl. D360 DIESEL		30
		6	C263			8 Cyl. D414,DT414 DIESEL		31
		7	BD264 DIESEL		19	D436,DT436 DIESEL		32
		8	4 Cyl.			D466,DT466 DIESEL		33
		9	C264		20	DT466B,C & DTI466B,C		34
		10	C281			8 Cyl. C605		35
		11	6 Cyl.		21			
		12	C282 GAS & LPG					
		13	D282 DIESEL		22			
		14	C291					
	C301 GAS & LPG	23						
		24						
		25						
Line No.	Part Title		Part No	Description				
1	C60 ENG - 4 Cyl. - 2.625 Bore (CUB,CUB LO-BOY,CUB 185,52R & U1)							
	Intake Valve		V0230	Head Dia. 1.094				
	Exhaust Valve		V0485	Head Dia. .906				
	Valve Locks		VL-300	2 GROOVES				
2	C113 ENG - 4 Cyl. - 3.00 Bore (A,AV,SUPER A,B,BN,C,22,62,U2,U22,U62)							
	Intake Valve		V0162 V0313  V0504	Head Dia. 1.342 TO ENG. #255417 Head Dia. 1.342 AFTER ENG. #255417 (EXC. DO NOT USE W/251173R95 CYL. HEAD) Head Dia. 1.500 FROM ENG. 255418 TO 310299 W/251173R95 CYL. HEAD				
	Continued on Next Page							

**I.H.C. TRACTOR & POWER UNITS (Continued)**

Line No.	Part Title	Part No	Description
<b>2</b>	<b>C113 ENG - 4 Cyl. - 3.00 Bore</b> (A,AV,SUPER A,B,BN,C,22,62,U2,U22,U62) (Continued)		
	Exhaust Valve	<b>V0312</b>	Head Dia. 1.156 AFTER ENG. #255417 (EXC. DO NOT USE W/251173SR95 CYL. HEAD)
	Valve Locks	<b>VL-200</b>	2 GROOVES
<b>3</b>	<b>C123 ENG - 4 Cyl. - 3.125 Bore</b> (SUPER C,SUPER R1,SUPER AV1,55,56,57,76,100,100HC,1 140,161, 163,230,240,T4,U123)		
	Intake Valve	<b>V0313</b> <b>V0504</b>	Head Dia. 1.342 GAS ENG. MODEL SUPER C, SUPER A1, SUPER AV1, 100, 100HC & 200 Head Dia. 1.500 GAS ENG. MODEL 55, 57, 76, 130, 130HC, 140, 140HC, 230, 240, T-4, GAS & LPG MODEL U123
	Exhaust Valve	<b>V0312</b> <b>V0503</b>	Head Dia. 1.156 GAS ENG. MODEL SUPER C, SUPER A1, SUPER AV1, 100, 100HC & 200 Head Dia. 1.312 GAS ENG. MODEL 55, 57, 76, 130, 130HC, 140, 140HC, 230, 240, T-4 & U123
	Valve Locks	<b>VL-200</b>	2 GROOVES
<b>4</b>	<b>C135 ENG - 4 Cyl. - 3.250 Bore</b> (91,93,201,330,T330,340,404,2404,T5,TC5,T340A,UC135)		
	Intake Valve	<b>V0504</b>	Head Dia. 1.500
	Exhaust Valve	<b>V0503</b>	Head Dia. 1.312 GAS
<b>5</b>	<b>C146 ENG - 4 Cyl. - 3.375 Bore</b> (424,444,500,504,660,770,780,2424,2500,2504)		
	Intake Valve	<b>V0504</b>	Head Dia. 1.500
	Exhaust Valve	<b>V0503</b>	Head Dia. 1.312 MADE OF HIGH ALLOY STEEL
	Valve Locks	<b>VL-200</b>	2 GROOVES
<b>6</b>	<b>C152 ENG - 4 Cyl. - 3 3/8 Bore</b> (FARMALL H,HV,INTERNATIONAL TRACTOR I-4,0-4,0S-4, WHEEL TRACTOR W-4, COMBINE NO. 122, POWER UNIT U-4 STD.COMP,GASOLINE,KEROSENE OR DISTILLATE)		
	Intake Valve	<b>V0192</b>	Head Dia. 1.500 STD. COMP. GAS OR DISTILLATE
	Exhaust Valve	<b>V0205</b>	Head Dia. 1.375 HIGH COMP. GAS
	Valve Locks	<b>VL-200</b>	2 GROOVES
<b>7</b>	<b>C153 ENG - 4 Cyl. - 3.375 Bore</b> (93,105,203,210,225,230,275,375,444,504,2424,2444, 2500,2504, 3514,4000)		
	Intake Valve	<b>V0504</b>	Head Dia. 1.500
	Exhaust Valve	<b>V0503</b>	Head Dia. 1.312 MADE OF HIGH ALLOY STEEL
	Valve Locks	<b>VL-200</b>	2 GROOVES
<b>8</b>	<b>C157 ENG - 4 Cyl. - 3.375 Bore</b> (454,2400A,2400B,2405B,2410B,2412B,4500A,4500B)		
	Push Rods	<b>MPR-205</b>	
	Exhaust Valve	<b>V1075</b>	Head Dia. 1.516
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>9</b>	<b>C164 ENG - 4 Cyl. - 3 9/16 Bore</b> (FARMALL SUPER H,SUPER HV,SUPER W4,POWER UNIT U-164 GASOLINE. STD.COMP.)		
	Exhaust Valve	<b>V0205</b>	Head Dia. 1.375
	Valve Locks	<b>VL-200</b>	2 GROOVES
<b>10</b>	<b>D166 DIESEL ENG - 4 Cyl. - 3.6875 Bore</b> (330,340,TD340)		
	Pump Kit	<b>K-28E</b>	
	Oil Pump	<b>M-28F</b>	DOES NOT INCLUDES SCREEN
	Screen Assy	<b>28-FS</b>	
	Push Rods	<b>MPR-205</b>	
	Exhaust Valve	<b>V0592</b>	Head Dia. 1.300
	Valve Locks	<b>VL-300</b>	2 GROOVES

**I.H.C. TRACTOR & POWER UNITS (Continued)**

Line No.	Part Title	Part No	Description
<b>11</b>	<b>C169 ENG - 4 Cyl. - 3 5/8 Bore</b> (FARMALL 300,300 HI-CLEAR,300 UTILITY,POWER UNIT U-GASOLINE,STD.COMP.)		
	Exhaust Valve	<b>V1075</b>	Head Dia. 1.516 STEM DIA. .3715 INCH
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>12</b>	<b>C175 ENG - 4 Cyl. - 3.5625 Bore</b> (375,454,464, 2400A,2400B,2405B,2410B,2412B,3400A,3514,T7)		
	Pump Kit	<b>K-28E</b>	
	Oil Pump	<b>M-28GS</b>	INCLUDES SCREEN
	Screen Assy	<b>28-GS</b>	
	Push Rods	<b>MPR-205</b>	
	Exhaust Valve	<b>V1075</b>	Head Dia. 1.516
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>13</b>	<b>D188 DIESEL ENG - 4 Cyl. - 3.6875 Bore</b> (504,2504,3514)		
	Pump Kit	<b>K-28E</b>	
	Oil Pump	<b>M-28E</b>	
	Push Rods	<b>MPR-205</b>	
	Exhaust Valve	<b>V0592</b> <b>V0921</b>	Head Dia. 1.300 Head Dia. 1.375
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>14</b>	<b>C200 ENG - 4 Cyl. - 3.8125 Bore</b> (544,574,674,2500,2500B,2510B,2514B,2544,3500,8000)		
	Pump Kit	<b>K-28E</b>	
	Oil Pump	<b>M-28GS</b>	INCLUDES SCREEN
	Screen Assy	<b>28-GS</b>	
	Push Rods	<b>MPR-205</b>	
	Exhaust Valve	<b>V1075</b>	Head Dia. 1.516
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>15</b>	<b>C221 ENG - 6 Cyl. - 3.5625 Bore</b> (205,315,460,606, 2606,3616)		
	Pump Kit	<b>K-28E</b>	
	Oil Pump	<b>M-28E</b> <b>M-28F</b>	MODELS 205, 315, 460 DOES NOT INCLUDES SCREEN MODELS 606, 2606, 3616
	Screen Assy	<b>28-FS</b>	
	Push Rods	<b>MPR-205</b>	
	Exhaust Valve	<b>V1075</b>	Head Dia. 1.516
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>16</b>	<b>D236 DIESEL ENG - 6 Cyl. - 3.6875 Bore</b> (315,460,606,2606, 3616,4236)		
	Pump Kit	<b>K-28E</b>	
	Oil Pump	<b>M-28E</b>	
	Push Rods	<b>MPR-205</b>	
	Exhaust Valve	<b>V0592</b> <b>V0921</b>	Head Dia. 1.300 MODEL 460 & UD236 Head Dia. 1.375 MODEL 315, 606, 2606 & 3616
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>17</b>	<b>C248 ENG - 4 Cyl. - 3.875 Bore</b> (M,MV,06,056,T6,W6,IU6,IUD6,U6)		
	Exhaust Valve	<b>V0203</b>	Head Dia. 1.656 GAS
	Valve Locks	<b>VL-200</b> <b>VL-300</b>	2 GROOVES 2 GROOVES
<b>18</b>	<b>C263 ENG - 6 Cyl. - 3.5625 Bore</b> (560,615,660,656, 706,2656,2706,3600A,3800,3850)		
	Pump Kit	<b>K-28E</b>	
	Oil Pump	<b>M-28E</b> <b>M-28F</b>	560, 660 TO SER #32242, 615 ALL U263 DOES NOT INCLUDES SCREEN 560, 660, AFTER SER #32242, ALL 656, 706, 2656, 2706, 3600A, 3800, 3850
	Screen Assy	<b>28-FS</b>	
	Push Rods	<b>MPR-205</b>	
	Exhaust Valve	<b>V1075</b>	Head Dia. 1.516
	Valve Locks	<b>VL-300</b>	2 GROOVES

**I.H.C. TRACTOR & POWER UNITS (Continued)**

Line No.	Part Title	Part No	Description
<b>19</b>	<b>BD264 DIESEL ENG - 6 Cyl. - 3 11/16 Bore</b>		
	Valve Locks	<b>VL-200</b> <b>VL-300</b>	2 GROOVES 2 GROOVES
<b>20</b>	<b>C264 ENG - 4 Cyl. - 4.000 Bore</b> (SUPER M,MTA,MV,W6,400,W400,T6,T6-61,U264)		
	Exhaust Valve	<b>V0203</b>	Head Dia. 1.656 GAS SUPER M, MV, W6 & U264
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>21</b>	<b>C281 ENG - 4 Cyl. - 4.125 Bore</b> (450,F450,F450HC,W450,T6)		
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>22</b>	<b>C282 GAS &amp; LPG ENG - 6 Cyl. - 3.6875 Bore</b> (403,503)		
	Pump Kit	<b>K-28E</b>	
	Oil Pump	<b>M-28E</b>	
	Push Rods	<b>MPR-205</b>	
	Exhaust Valve	<b>V1075</b>	Head Dia. 1.516
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>23</b>	<b>D282 DIESEL ENG - 6 Cyl. - 3.6875 Bore</b> (214,220,403,414,422,560,656,660,706,2656,2706,TD6,7D9,62 SERIES,H-50A,H-50B,H-50C,UD282)		
	Pump Kit	<b>K-28E</b>	
	Oil Pump	<b>M-28E</b> <b>M-28F</b>	ALL MODELS INCLUDING 560, 660 TO ENG. #42217 & 706 W/ENG. #51721 AND UP DOES NOT INCLUDES SCREEN 560, 660 FROM ENG. #42218 & 706 W/ENG. #51721 AND BELOW
	Screen Assy	<b>28-FS</b>	
	Push Rods	<b>MPR-205</b>	
	Exhaust Valve	<b>V0592</b> <b>V0921</b>	Head Dia. 1.300 Head Dia. 1.375
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>24</b>	<b>C291 ENG - 6 Cyl. - 3.750 Bore</b> (616,622,666,686,706,756,766,2706,2756,HYDRO 70, HYDRO 86)		
	Pump Kit	<b>K-28E</b>	
	Oil Pump	<b>M-28F</b>	DOES NOT INCLUDES SCREEN
	Screen Assy	<b>28-FS</b>	
	Push Rods	<b>MPR-205</b>	
	Exhaust Valve	<b>V1075</b>	Head Dia. 1.516
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>25</b>	<b>C301 GAS &amp; LPG ENG - 6 Cyl. - 3.8125 Bore</b> (453,616,622,715,806, 826,856,2806,2826,2856,9000, H-50B,H-50C,H-60B)		
	Pump Kit	<b>K-28E</b>	
	Oil Pump	<b>M-28E</b> <b>M-28F</b>	453 & 715 MODELS ONLY DOES NOT INCLUDES SCREEN EXC. 453 & 715 MODELS
	Push Rods	<b>MPR-205</b>	
	Exhaust Valve	<b>V1075</b>	Head Dia. 1.516 EXC. LPG 806 & 2806 TRACTORS ONLY
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>26</b>	<b>D301 DIESEL ENG - 6 Cyl. - 3.8125 Bore</b> (403,453,503,715 W/CHASSIS # 230004 & BELOW,H-60B)		
	Pump Kit	<b>K-28E</b>	
	Oil Pump	<b>M-28E</b>	
	Push Rods	<b>MPR-205</b>	
	Exhaust Valve	<b>V0921</b>	Head Dia. 1.375
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>27</b>	<b>V304 ENG - 8 Cyl. - 3 7/8 Bore</b> (815)		
	Camshaft Lifter Kits Using Hydraulic Lifters	<b>CL-SIH-1</b>	KIT INCLUDES 1-SIH-1 CAM, 16-JB-945 LIFTERS & 4OZ MELL LUBE
	Pump Kit	<b>K-71E</b>	
	Oil Pump	<b>M-71</b>	
	<i>Continued on Next Page</i>		

**I.H.C. TRACTOR & POWER UNITS (Continued)**

<b>Line No.</b>	<b>Part Title</b>	<b>Part No</b>	<b>Description</b>
<b>27</b>	<b>V304 ENG - 8 Cyl. - 3 7/8 Bore (815) (Continued)</b>		
	Camshafts Using Hydraulic Lifters	<b>SIH-1</b>	
	Push Rods	<b>MPR-202</b>	USED W/CAST TYPE ROCKER ARMS
	Hydraulic Lifters	<b>JB-945</b>	
	Intake Valve	<b>V0560</b>	Head Dia. 1.969
	Exhaust Valve	<b>V0559</b>	Head Dia. 1.609
	Valve Springs	<b>VS-960</b>	
	Valve Locks	<b>VL-300</b>	2 GROOVES
	Gear Set	<b>3336S</b>	SET INCLUDES (1) 3316 CAM GEAR, (1) 3318 CRANK GEAR; MUST REPLACE AS A SET ONLY
<b>28</b>	<b>D312 DIESEL ENG - 6 Cyl. - 3 7/8 Bore (70,666,UD312)</b>		
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>29</b>	<b>V345 ENG - 8 Cyl. - 3 7/8 Bore (815,915)</b>		
	Camshaft Lifter Kits Using Hydraulic Lifters	<b>CL-SIH-1</b>	KIT INCLUDES 1-SIH-1 CAM, 16-JB-945 LIFTERS & 4OZ MELL LUBE
	Pump Kit	<b>K-71E</b>	
	Oil Pump	<b>M-71</b>	
	Camshafts Using Hydraulic Lifters	<b>SIH-1</b>	
	Push Rods	<b>MPR-200</b> <b>MPR-201</b>	USED W/STAMPED TYPE ROCKER ARMS USED W/CAST TYPE ROCKER ARMS
	Hydraulic Lifters	<b>JB-945</b>	
	Intake Valve	<b>V0560</b>	Head Dia. 1.969
	Exhaust Valve	<b>V0559</b>	Head Dia. 1.609
	Valve Springs	<b>VS-960</b>	
	Valve Locks	<b>VL-300</b>	2 GROOVES
	Gear Set	<b>3336S</b>	SET INCLUDES (1) 3316 CAM GEAR, (1) 3318 CRANK GEAR; MUST REPLACE AS A SET ONLY
<b>30</b>	<b>D360 DIESEL ENG - 6 Cyl. - 3.875 Bore (453,766,866,UD360)</b>		
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>31</b>	<b>D414,DT414 DIESEL ENG - 6 Cyl. - 4.300 Bore (815,915,966,1066, E200,H-65C,UD414)</b>		
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>32</b>	<b>D436,DT436 DIESEL ENG - 6 Cyl. - 4.300 Bore</b> (1460,1466,1480,1486,1566,1586,3388,4166,4186,5038, 6388,HYDRO 100)		
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>33</b>	<b>D466,DT466 DIESEL ENG - 6 Cyl. - 4.300 Bore (175C,412,4366,H-80B,TC-15C,UD466)</b>		
	Mechanical Lifters	<b>JB-2082</b>	OEM #1802340-C1; 1.120 INCH BODY DIAMETER
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>34</b>	<b>DT466B,C &amp; DTI466B,C ENG - 6 Cyl. - 4.300 Bore (1470,1480,3588,3788,4386,5288,5488,6788)</b>		
	Valve Locks	<b>VL-300</b>	2 GROOVES
<b>35</b>	<b>C605 ENG - 8 Cyl. - 4.625 Bore</b>		
	Camshafts Using Hydraulic Lifters	<b>MC1283</b>	
	Intake Valve	<b>V1507</b>	Head Dia. 2.157

**JOHN DEERE TRACTOR**

Engine		Year	Line	Engine	Year	Line	Engine	Year	Line
<b>3 Cyl.</b> 152,164,179			1	<b>6 Cyl.</b> 301,341 GAS		4	<b>6 Cyl.</b> 404 DIESEL		8
<b>4 Cyl.</b> 201,227 GAS			2	303,329,359D		5	414D DIESEL		9
202,219,239,276 DIESEL			3	404T,466 A,T		6	466D DIESEL		10
				<b>4 Cyl.</b> 270 DIESEL		7			
Line No.	Part Title		Part No		Description				
<b>1</b>	<b>152,164,179 ENG - 3 Cyl.</b> (JD480FL,JD540 SKIDDER TO SER. NO. 49,999, 2150,215 2240)								
	Exhaust Valve		<b>V1233</b>		Head Dia. 1.575				
	Valve Locks		<b>VL-300</b>		2 GROOVES				
<b>2</b>	<b>201,227 GAS ENG - 4 Cyl.</b> (MODEL 3010,3020,JD500)								
	Intake Valve		<b>V0659</b>		Head Dia. 1.688				
	Exhaust Valve		<b>V0658</b>		Head Dia. 1.500				
	Valve Locks		<b>VL-100</b>		2 GROOVES				
<b>3</b>	<b>202,219,239,276 DIESEL ENG - 4 Cyl.</b> (JD480FL,JD540 SKIDDER TO SER NO 49,999,JD202D POWER UNIT,2440,219 TURBO,239 TURBO,2640 DIESEL)								
	Exhaust Valve		<b>V1233</b>		Head Dia. 1.575				
	Valve Locks		<b>VL-300</b>		2 GROOVES				
<b>4</b>	<b>301,341 GAS ENG - 6 Cyl. - 4.00 Bore</b> (MODEL 4010,4200,JD600)								
	Intake Valve		<b>V0659</b>		Head Dia. 1.688				
	Exhaust Valve		<b>V0658</b>		Head Dia. 1.500				
	Valve Locks		<b>VL-100</b>		2 GROOVES				
<b>5</b>	<b>303,329,359D ENG - 6 Cyl.</b> (MODEL 4030)								
	Exhaust Valve		<b>V1233</b>		Head Dia. 1.575				
	Valve Locks		<b>VL-100</b>		2 GROOVES				
<b>6</b>	<b>404T,466 A,T ENG - 6 Cyl.</b> (TURBO & INTERCOOLED DIESEL)								
	Intake Valve		<b>V1403</b>		Head Dia. 1.715				
	Valve Locks		<b>VL-300</b>		2 GROOVES				
<b>7</b>	<b>270 DIESEL ENG - 4 Cyl. - 4 1/4 Bore</b> (MODELS 3020 & JD500)								
	Intake Valve		<b>V1289</b>		Head Dia. 1.898 MODEL 3020 TO SER. 122999 & MODEL JD500 TO SER. 123113				
			<b>V1336</b>		Head Dia. 1.902 MODEL 3020 AFTER SER. 122999 & MODEL JD500 AFTER SER. 123113				
	Exhaust Valve		<b>V1288</b>		Head Dia. 1.714 MODEL 3020 TO SER. 122999 & MODEL JD500 TO SER. 123113				
			<b>V1375</b>		Head Dia. 1.715 MODEL 3020 AFTER SER. 122999 & MODEL JD500 AFTER SER. 123113				
	Valve Locks		<b>VL-300</b>		2 GROOVES				
<b>8</b>	<b>404 DIESEL ENG - 6 Cyl. - 4 1/4 Bore</b> (MODELS 3020,4000,4010,4020,4230,4320,4430,4520,463 5200,7020 & 7700 TURBO)								
	Intake Valve		<b>V1289</b> <b>V1336</b> <b>V1403</b>		Head Dia. 1.898 MODEL 4020 TO SER. 200999 Head Dia. 1.902 MODEL 4000 & 4020 AFTER SER. 200999 & MODEL 4230 ALL & MODEL 4520 TO ENG. SER. 245756 Head Dia. 1.715 5200 & 7020 FROM SER #335846; 4430, 4630, 7700 TURBO				
	Exhaust Valve		<b>V1288</b> <b>V1375</b>		Head Dia. 1.714 MODEL 4020 TO SER. 200999 Head Dia. 1.715 MODEL 4000 & 4020 AFTER SER. 200999 & MODELS 4230 & 4520 ALL				
<b>9</b>	<b>414D DIESEL ENG - 6 Cyl. - 4.1929 Bore</b>								
	Exhaust Valve		<b>V1233</b>		Head Dia. 1.575				
	Valve Locks		<b>VL-300</b>		2 GROOVES				

**JOHN DEERE TRACTOR (Continued)**

Line No.	Part Title	Part No	Description
<b>10</b>	<b>466D DIESEL ENG - 6 Cyl. - 4.5625 Bore</b>		
	Intake Valve	<b>V1336</b>	Head Dia. 1.902
	Exhaust Valve	<b>V1375</b>	Head Dia. 1.715
	Valve Locks	<b>VL-300</b>	2 GROOVES

**MINNEAPOLIS-MOLINE**

Engine		Year	Line	Engine		Year	Line	Engine		Year	Line
4 Cyl.											
IXB-3 HERCULES			1	KEF,336,403,605,1210			2				
Line No.	Part Title		Part No		Description						
1	IXB-3 HERCULES ENG - 4 Cyl. - 3 1/4 Bore (BF,BFH & BG)										
	Intake Valve		V0132		Head Dia. 1.484						
	Exhaust Valve		V0131		Head Dia. 1.359						
2	KEF,336,403,605,1210 ENG (UTS,UTU,UTI,UTIL,M5,M504,M602,M604,G,GB,P,GTB,LE)										
	Intake Valve		V0160		Head Dia. 1.718						
	Exhaust Valve		V0159		Head Dia. 1.594						

**OLIVER TRACTOR**

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
4 Cyl. IXB-3 129 144		1	6 Cyl. 194 GAS 216 F226 CONT. 231		4	6 Cyl. (Continued) 265 4 Cyl. 283		8
		2		5				
		3		6			9	
				7				
Line No.	Part Title		Part No	Description				
1	IXB-3 ENG - 4 Cyl. - 3 1/4 Bore (OC3) (HERCULES ENG)							
	Intake Valve		V0132	Head Dia. 1.484				
	Exhaust Valve		V0131	Head Dia. 1.359				
2	129 ENG - 4 Cyl. - 3 5/16 Bore (66HC & 66KD)							
	Intake Valve		V0323	Head Dia. 1.313				
	Crank Gear		5401	30 TEETH				
3	144 ENG - 4 Cyl. - 3 1/2 Bore (55HC, SUPER 55HC, SUPER 66HC & SUPER 66KD)							
	Intake Valve		V0321 V0323	Head Dia. 1.406 55HC & SUPER 55HC Head Dia. 1.313 SUPER 66HC & SUPER 66KD				
	Crank Gear		5401	30 TEETH				
4	194 GAS ENG - 6 Cyl. - 3 5/16 Bore (77D,77HC UP TO SER # 6502)							
	Intake Valve		V0323	Head Dia. 1.313				
5	216 ENG - 6 Cyl. - 3 1/2 Bore (SUPER 66D, SUPER 77D, 770D, SUPER 77HC, SUPER 77KD SUPER 88HC,88HC & 770)							
	Intake Valve		V0321 V0323	Head Dia. 1.406 SUPER 77HC & SUPER 77KD AFTER SER. 6502 & 770 AFTER SER. 60500 Head Dia. 1.313 SUPER 77HC & SUPER 77KD TO SER. 6502				
	Crank Gear		5401	30 TEETH				
6	F226 CONT. ENG - 6 Cyl. - 3 5/16 Bore (AG6)							
	Intake Valve		V0211 V0810 V0945	Head Dia. 1.520 USED W/ROTOCAP LOCK GROOVE 13/32 INCH FROM END Head Dia. 1.516 DRILLED STEM Head Dia. 1.516 SINGLE GROOVE				
	Exhaust Valve		V0196 V0210	Head Dia. 1.328 DRILLED STEM Head Dia. 1.328 USED W/ROTOCAP LOCK GROOVE 13/32 INCH FROM END				
Continued on Next Page								

**OLIVER TRACTOR (Continued)**

Line No.	Part Title	Part No	Description
<b>6</b>	<b>F226 CONT. ENG - 6 Cyl. - 3 5/16 Bore</b> (AG6) (Continued)		
	Exhaust Valve	<b>V0361</b>	Head Dia. 1.328 ROTOTYPE
	Crank Gear	<b>2603</b>	24 TEETH
<b>7</b>	<b>231 ENG - 6 Cyl. - 3 1/2 Bore</b> (88D, 88HC TO SER. 6502,999 & 1600 SER. 124420 TO 147568)		
	Intake Valve	<b>V0321</b>	Head Dia. 1.406 GAS
	Crank Gear	<b>5401</b>	30 TEETH
<b>8</b>	<b>265 ENG - 6 Cyl. - 3 3/4 Bore</b> (SUPER 88D, SUPER 88HC AFTER SER. 6503,000, 88KD, 880D, 880HC AFTER SER. 60500,000 & 1650 AFTER SER. 147568)		
	Intake Valve	<b>V0321</b> <b>V0794</b>	Head Dia. 1.406 KEROSENE Head Dia. 1.512 GAS
	Exhaust Valve	<b>V0793</b>	Head Dia. 1.395 GAS
	Crank Gear	<b>5401</b>	30 TEETH
<b>9</b>	<b>283 ENG - 4 Cyl. - 4 1/4 Bore</b> (U,UB,UBE,UBN,UBU,UTI,UTS & 5 STAR)		
	Intake Valve	<b>V0160</b>	Head Dia. 1.718
	Exhaust Valve	<b>V0159</b>	Head Dia. 1.594

**WAUKESHA**

Engine		Year	Line	Engine		Year	Line	Engine		Year	Line
6 Cyl. 180GKB 180GLB			1 2	6 Cyl. (Continued) 190DLC DIESEL 190GL,GS,KL			3 4	6 Cyl. (Continued) 190GLB			5
Line No.	Part Title		Part No		Description						
1	180GKB ENG - 6 Cyl. - 3 1/2 Bore										
	Intake Valve		V0912		Head Dia. 1.465						
	Exhaust Valve		V0793		Head Dia. 1.395						
2	180GLB ENG - 6 Cyl. - 3 1/2 Bore										
	Intake Valve		V0321 V0323		Head Dia. 1.406 AFTER SER. #6502 Head Dia. 1.313 TO SER. #6502						
	Crank Gear		5401		30 TEETH						
3	190DLC DIESEL ENG - 6 Cyl. - 3 3/4 Bore										
	Crank Gear		5401		30 TEETH						
4	190GL,GS,KL ENG - 6 Cyl.										
	Intake Valve		V0321		Head Dia. 1.406						
5	190GLB ENG - 6 Cyl. - 3 3/4 Bore										
	Intake Valve		V0794		Head Dia. 1.512						
	Exhaust Valve		V0793		Head Dia. 1.395						
	Crank Gear		5401		30 TEETH						



**CHRYSLER MARINE**

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
<b>6 Cyl.</b> 182 (3.0) 218 (3.6)		1	<b>V8 (Continued)</b> 273 (4.5)		5	<b>V8 (Continued)</b> 383 (6.3)		10
		2	318 (5.2)		6	400 (6.6)		11
		3	340 (5.6)		7	426 (7.0)		12
<b>V8</b> 270 (4.4)		4	360 (5.9) 361 (5.9)		8 9	440 (7.2)		13

Line No.	Part Title	Part No	Description
<b>1</b>	<b>182 (3.0) ENG - 6 Cyl. - 88 MM Bore</b> (165, 170)		
	Valve Locks	<b>VL-680</b>	
<b>2</b>	<b>218 (3.6) ENG - 6 Cyl. - 3.25 Bore</b> (M6, M26, M36, ACE M46, ACE SPECIAL M46S)		
	Oil Pump	<b>M-66C</b>	STANDARD VOLUME AND PRESSURE
	Valve Locks	<b>VL-100</b>	2 GROOVES
<b>3</b>	<b>251 (4.1) ENG - 6 Cyl. (REVERSE ROTATION)</b>		
	Oil Pump	<b>M-37R</b>	RIGHT HAND GEAR
<b>4</b>	<b>270 (4.4) ENG - V8 - 3.625 Bore</b> (ROYAL M44S)		
	Hydraulic Lifters	<b>JB-812</b>	
	Valve Locks	<b>VL-100</b> <b>VL-400</b>	2 GROOVES 3 GROOVES
	Chain	<b>348</b>	68 LINKS
	Crank Sprocket	<b>S274</b>	23 TEETH
<b>5</b>	<b>273 (4.5) ENG - V8 - 3 5/8 Bore</b> (175, 200, SUPERBEE)		
	Oil Pump	<b>M-72</b> <b>M-72HV</b>	STANDARD VOLUME AND PRESSURE HI VOL PUMP (25% ADDL VOL OF OIL). CHECK FOR PAN AND CRANK CLEARANCE
	Intermediate Shaft	<b>IS-72</b>	STD. ROTATION
	Camshafts Using Hydraulic Lifters	<b>23103</b>       <b>23104</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE.; POWER RANGE IDLE - 4500; CAM LIFT .273 INT./ .274 EXH; VALVE LIFT .410 INT./ .412 EXH. CHAIN DRIVE-STANDARD. ROTATION. COMPUTER COMPATIBLE. CAM LIFT .273 INT. .274 EXH. CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; POWER RANGE IDLE-4500; CAM LIFT .273 INT./ .274 EXH; VALVE LIFT .410 INT./ .411 EXH. CHAIN DRIVE-REVERSE ROTATION. COMPUTER COMPATIBLE. CAM LIFT .273 INT. .274 EXH.
	Hydraulic Lifters	<b>JB-2011</b>	
	Exhaust Valve	<b>V1329</b>	Head Dia. 1.500
	Valve Springs	<b>VS-1120</b>	
	Valve Locks	<b>471004</b> <b>474004</b>	2 GROOVE HARDENED 3 GROOVE HARDENED
	Rocker Arms	<b>MR-892</b> <b>MR-893</b>	LEFT HAND RIGHT HAND
	Rocker Arm Shaft	<b>MRS-661</b>	
	Chrome Moly Push Rods	<b>500594</b>	MAX. SPRING PRESSURE 350 LBS
	3pc Set	<b>40406</b>	INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT, CENTER DISTANCE 6.125 INCHES
<b>6</b>	<b>318 (5.2) ENG - V8 - 3.91 Bore</b> (M80, M80A, 195, 195 SPECIAL, STERN DRIVE 195, 225, STERN DRIVE 240, 915, SUPERBEE II, JET II, SUPERBEE V-DRIVE)		
	Oil Pump	<b>M-72</b> <b>M-72HV</b>	STANDARD VOLUME AND PRESSURE HI VOL PUMP (25% ADDL VOL OF OIL). CHECK FOR PAN AND CRANK CLEARANCE
	<i>Continued on Next Page</i>		

**CHRYSLER MARINE (Continued)**

<b>Line No.</b>	<b>Part Title</b>	<b>Part No</b>	<b>Description</b>
<b>6</b>	<b>318 (5.2) ENG - V8 - 3.91 Bore</b> (M80, M80A, 195, 195 SPECIAL, STERN DRIVE 195, 225, STERN DRIVE 240, 915, SUPERBEE II, JET II, SUPERBEE V-DRIVE) (Continued)		
	Screen Assy	<b>72-S2</b>	
	Intermediate Shaft	<b>IS-72</b>	STD. ROTATION
	Camshafts Using Hydraulic Lifters	<b>23103</b>  <b>23104</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE.; POWER RANGE IDLE - 4500; CAM LIFT .273 INT./.274 EXH; VALVE LIFT .410 INT./.412 EXH. CHAIN DRIVE-STANDARD. ROTATION. COMPUTER COMPATIBLE. CAM LIFT .273 INT. .274 EXH. CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; POWER RANGE IDLE-4500; CAM LIFT .273 INT./.274 EXH; VALVE LIFT .410 INT./.411 EXH. CHAIN DRIVE-REVERSE ROTATION. COMPUTER COMPATIBLE. CAM LIFT .273 INT. .274 EXH.
	Mechanical Lifters	<b>JB-937</b>	
	Hydraulic Lifters	<b>JB-2011</b>	
	Intake Valve	<b>V1180</b>	Head Dia. 1.880
	Exhaust Valve	<b>V1399</b> <b>V1401</b>	Head Dia. 1.500 Head Dia. 1.600
	Valve Springs	<b>VS-1120</b>	
	Valve Locks	<b>471004</b> <b>474004</b>	2 GROOVE 2 GROOVE - HARDENED 3 GROOVE 4 GROOVE - HARDENED
	Rocker Arms	<b>MR-892</b> <b>MR-893</b>	LEFT HAND RIGHT HAND
	Rocker Arm Shaft	<b>MRS-661</b>	
	Chrome Moly Push Rods	<b>500594</b>	MAX. SPRING PRESSURE 350 LBS
	3pc Set	<b>40406</b>	INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT, CENTER DISTANCE 6.125 INCHES
<b>7</b>	<b>340 (5.6) ENG - V8 - 4.04 Bore</b> (250, CHRYSLER III, SUPERBEE III, JET III, SUPERBEE V-DRIVE III)		
	Oil Pump	<b>M-72</b> <b>M-72HV</b>	STANDARD VOLUME AND PRESSURE HI VOL PUMP (25% ADDL VOL OF OIL). CHECK FOR PAN AND CRANK CLEARANCE
	Intermediate Shaft	<b>IS-72</b>	STD. ROTATION
	Camshafts Using Hydraulic Lifters	<b>23103</b>  <b>23104</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE.; POWER RANGE IDLE - 4500; CAM LIFT .273 INT./.274 EXH; VALVE LIFT .410 INT./.412 EXH. CHAIN DRIVE-STANDARD ROTATION. COMPUTER COMPATIBLE. CAM LIFT .273 INT. .274 EXH. CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; POWER RANGE IDLE-4500; CAM LIFT .273 INT./.274 EXH; VALVE LIFT .410 INT./.411 EXH. CHAIN DRIVE-REVERSE ROTATION. COMPUTER COMPATIBLE. CAM LIFT .273 INT. .274 EXH.
	Hydraulic Lifters	<b>JB-2011</b>	
	Intake Valve	<b>V1180</b>	Head Dia. 1.880
	Exhaust Valve	<b>V1307</b>	Head Dia. 1.600
	Valve Springs	<b>VS-1120</b>	
	Valve Locks	<b>471004</b> <b>474004</b>	2 GROOVE HARDENED 3 GROOVE HARDENED
	Rocker Arms	<b>MR-892</b> <b>MR-893</b>	LEFT HAND RIGHT HAND
	Rocker Arm Shaft	<b>MRS-661</b>	
	<i>Continued on Next Page</i>		

**CHRYSLER MARINE (Continued)**

Line No.	Part Title	Part No	Description
<b>7</b>	<b>340 (5.6) ENG - V8 - 4.04 Bore</b> (250, CHRYSLER III, SUPERBEE III, JET III, SUPERBEE V-DRIVE III) (Continued)		
	Chrome Moly Push Rods	<b>500594</b>	MAX. SPRING PRESSURE 350 LBS
	3pc Set	<b>40406</b>	INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT, CENTER DISTANCE 6.125 INCHES
<b>8</b>	<b>360 (5.9) ENG - V8 - 4.000 Bore</b> (CHRYSLER JET, SUPERBEE V-DRIVE III, SUPERBEE III-VOLVO)		
	Oil Pump	<b>M-72</b> <b>M-72HV</b>	STANDARD VOLUME AND PRESSURE HI VOL PUMP (25% ADDL VOL OF OIL). CHECK FOR PAN AND CRANK CLEARANCE
	Intermediate Shaft	<b>IS-72</b>	STD. ROTATION
	Camshafts Using Hydraulic Lifters	<b>23103</b>       <b>23104</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE.; POWER RANGE IDLE - 4500; CAM LIFT .273 INT./ .274 EXH; VALVE LIFT .410 INT./ .412 EXH. CHAIN DRIVE- STANDARD ROTATION. COMPUTER COMPATIBLE. CAM LIFT .273 INT. .274 EXH. CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; POWER RANGE IDLE-4500; CAM LIFT .273 INT./ .274 EXH; VALVE LIFT .410 INT./ .411 EXH. CHAIN DRIVE- REVERSE ROTATION. COMPUTER COMPATIBLE. CAM LIFT .273 INT. .274 EXH.
	Hydraulic Lifters	<b>JB-2011</b>	
	Intake Valve	<b>V1180</b>	Head Dia. 1.880
	Exhaust Valve	<b>V1401</b>	Head Dia. 1.600
	Valve Springs	<b>VS-1120</b>	
	Valve Locks	<b>471004</b> <b>474004</b>	2 GROOVE HARDENED 3 GROOVE HARDENED
	Rocker Arms	<b>MR-892</b> <b>MR-893</b>	LEFT HAND RIGHT HAND
	Rocker Arm Shaft	<b>MRS-661</b>	
	Chrome Moly Push Rods	<b>500594</b>	MAX. SPRING PRESSURE 350 LBS
	3pc Set	<b>40406</b>	INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT, CENTER DISTANCE 6.125 INCHES
<b>9</b>	<b>361 (5.9) ENG - V8 - 4.125 Bore</b> (M81 IMPERIAL)		
	Intermediate Shaft	<b>IS-63</b> <b>IS-63-R</b>	STANDARD ROTATION DRIVE SHAFT REVERSE ROTATION DRIVE SHAFT
	Intake Valve	<b>V0577</b>	Head Dia. 1.880
	Valve Locks	<b>VL-100</b> <b>VL-400</b>	2 GROOVES 3 GROOVES
<b>10</b>	<b>383 (6.3) ENG - V8 - 4.25 Bore</b> (M383, M383B, 260, 280)		
	Intermediate Shaft	<b>IS-63</b> <b>IS-63-R</b>	STANDARD ROTATION DRIVE SHAFT REVERSE ROTATION DRIVE SHAFT
	Push Rods	<b>MPR-321</b>	
	Hydraulic Lifters	<b>JB-2011</b>	
	Valve Locks	<b>VL-100</b> <b>VL-300</b>	2 GROOVES 2 GROOVES
	Rocker Arms	<b>MR-850</b> <b>MR-851</b>	LEFT HAND RIGHT HAND
	3pc Set	<b>3-501SA</b>	INCLUDES 501, S366 & S367 W/SILENT TYPE CHAIN

**CHRYSLER MARINE (Continued)**

Line No.	Part Title	Part No	Description
<b>11</b>	<b>400 (6.6) ENG - V8 - 4.342 Bore (280)</b>		
	Mounting Gasket Set	<b>M-63016</b>	CONTAINS (1) MOUNTING GASKET, (1) O RING SEAL REPLACEMENT MOUNTING GASKET SET FOR THE M-63, M-63HP, M-63L OIL PUMPS
	Oil Pump	<b>M-63</b> <b>M-63HP</b> <b>M-63HV</b>  <b>M-63L</b>	STANDARD VOLUME AND PRESSURE HI PRESSURE OIL PUMP HI PRESSURE PUMP HI VOL PUMP (25% ADDL VOL OF OIL). CHECK FOR PAN AND CRANK CLEARANCE STANDARD VOLUME AND PRESSURE MUST USE OLD COVER
	Push Rods	<b>MPR-321</b>	
	Intake Valve	<b>V0548</b>	Head Dia. 2.080
	Valve Locks	<b>VL-100</b> <b>VL-300</b>	2 GROOVES 2 GROOVES
	Rocker Arms	<b>MR-850</b> <b>MR-851</b>	LEFT HAND RIGHT HAND
	Chain	<b>168</b>	66 LINKS
	Crank Sprocket	<b>S339</b>	25 TEETH
<b>12</b>	<b>426 (7.0) ENG - V8 - 4.250 Bore (M426B, M426D)</b>		
	Mounting Gasket Set	<b>M-63016</b>	CONTAINS (1) MOUNTING GASKET, (1) O RING SEAL REPLACEMENT MOUNTING GASKET SET FOR THE M-63, M-63HP, M-63HV OIL PUMPS
	Oil Pump	<b>M-63</b> <b>M-63HP</b> <b>M-63HV</b>	STANDARD VOLUME AND PRESSURE HI PRESSURE OIL PUMP HI PRESSURE PUMP HI VOL PUMP (25% ADDL VOL OF OIL). CHECK FOR PAN AND CRANK CLEARANCE
<b>13</b>	<b>440 (7.2) ENG - V8 - 4.320 Bore (300, 330, 335, 375)</b>		
	Mounting Gasket Set	<b>M-63016</b>	CONTAINS (1) MOUNTING GASKET, (1) O RING SEAL REPLACEMENT MOUNTING GASKET SET FOR THE M-63, M-63HP, M-63HV OIL PUMPS
	Oil Pump	<b>M-63</b> <b>M-63HP</b> <b>M-63HV</b>	STANDARD VOLUME AND PRESSURE HI PRESSURE OIL PUMP HI PRESSURE PUMP HI VOL PUMP (25% ADDL VOL OF OIL). CHECK FOR PAN AND CRANK CLEARANCE
	Intermediate Shaft	<b>IS-63</b>	
	Camshafts Using Hydraulic Lifters	<b>SPD-11</b>	SINGLE BOLT FLAT LIFTER- CHAIN DRIVE- STD. ROTATION- COMPUTER COMPATIBLE. CAM LIFT .289 INT. .287 EXH.
	Hydraulic Lifters	<b>JB-976</b>	
	Intake Valve	<b>V0548</b>	Head Dia. 2.080
	Exhaust Valve	<b>V1156</b>	Head Dia. 1.740
	Valve Springs	<b>VS-430</b>	
	Valve Locks	<b>471004</b> <b>474004</b>	2 GROOVE HARDENED 3 GROOVE HARDENED
	Rocker Arms	<b>MR-850</b> <b>MR-851</b>	LEFT HAND RIGHT HAND
	Chrome Moly Push Rods	<b>500334</b>	MAX. SPRING PRESSURE 350 LBS 5/16 DIA. 9.295 LENGTH- USE WITH HYD. LIFTERS
	3pc Set	<b>40217</b>	THREE BOLT CAM SPROCKET, INCLUDES .220 INCH DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT, CENTER DISTANCE 5.152 INCHES USE W/3 BOLT CAM
	Continued on Next Page		

**CHRYSLER MARINE (Continued)**

Line No.	Part Title	Part No	Description
<b>13</b>	<b>440 (7.2) ENG - V8 - 4.320 Bore</b> (300, 330, 335, 375) (Continued)		
	3pc Set	<b>40407</b>	ONE BOLT CAM SPROCKET, INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT, CENTER DISTANCE 5.152 INCHES SINGLE BOLT CAM

**FORD MARINE**

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
<b>V8</b> 289 (4.7) 302 (5.0)		1 2	<b>V8 (Continued)</b> 351W (5.8) 429 (7.0)		3 4	<b>V8 (Continued)</b> 460 (7.5)		5

Line No.	Part Title	Part No	Description
<b>1</b>	<b>289 (4.7) ENG - V8 - 4.000 Bore</b> (BERKLEY JET DRIVE, CRUSADER, FORD MARINE, DEARBORN, HOLMAN-MOODY, INTERCEPTOR/CONQUEROR)		
	Oil Pump	<b>M-68</b> <b>M-68A</b> <b>M-68HV</b>	STANDARD VOLUME AND PRESSURE HI PRESSURE OIL PUMP HI VOL PUMP; 25% ADDL VOL OF OIL; CHECK FOR PAN AND CRANK CLEARANCE; MAY REQUIRE OIL PAN MODIFICATION MAY REQUIRE OIL PAN MODIFICATION
	Intermediate Shaft	<b>IS-68</b>	
	Camshafts Using Hydraulic Lifters	<b>24107</b>  <b>24209</b>  <b>SYB-35</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; POWER RANGE IDLE-4400; CAM LIFT .260 INT./ .278 EXH; VALVE LIFT .416 INT./ .444 EXH. CHAIN DRIVE- STD. ROTATION- 351W FIRING ORDER. COMPUTER COMPATIBLE. CAM LIFT .260 INT. .278 EXH. CLASS II. NOT CALIFORNIA COMPLIANT. NOT COMPUTER COMPATIBLE. POWER RANGE 1300-4800; CAM LIFT .278 INT./ .283 EXH; VALVE LIFT .445 INT./ .453 EXH. CHAIN DRIVE- REVERSE ROTATION- 18456273 FIRING ORDER. CAM LIFT .278 INT. .283 EXH. NOT CALIFORNIA COMPLIANT. CHAIN DRIVE- STD. ROTATION- 351W FIRING ORDER (SEE SPEC'S); CAM LIFT .278 INT. .283 EXH.
	Hydraulic Lifters	<b>JB-900</b>	
	Intake Valve	<b>V1001</b>	Head Dia. 1.780
	Exhaust Valve	<b>V1000</b>	Head Dia. 1.450
	Valve Spring with Hydraulic Lifters	<b>VS-270</b>	
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-511</b>  <b>MRK-610</b>	1963 To 10/4/65 KIT INCLUDES 1-MR-849 ARM, 1-MRM-1772 BALL & 1-MRM-1786 NUT From 1/4/65 TO 1968 KIT INCLUDES 1-MR-886 ARM, 1-MRM-1772 BALL, 1-MRM-1786 3/8 INCH NUT & 1-MRM-1791 5/16 INCH NUT
	Rocker Arm Stud	<b>MRDS-934</b> <b>MRDS-937</b>	STANDARD SIZE STANDARD SIZE .006 O/S
	Chrome Moly Push Rods	<b>500584</b>	MAX. SPRING PRESSURE 350 LBS
	3pc Set	<b>40402</b>	FACTORY ONE PIECE FUEL PUMP ECCENTRIC, INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +4 DEGREE/-4 DEGREE CAM ADJUSTMENT. CENTER DISTANCE 4.804 INCHES

Line No.	Part Title	Part No	Description
<b>2</b>	<b>302 (5.0) ENG - V8 - 4.000 Bore</b> (BERKLEY JET DRIVE, COMMANDER, CRUSADER, DEARBORN, FORD MARINE, GLASTRON, HOLMAN-MOODY, INDMAR, MERCUISER, OMC, OSCO, PALMER, PLEASURECRAFT, VOLVO-PENTA, WAUKESHA, INTERCEPTOR/CONQUEROR)		
	Oil Pump	<b>M-68</b> <b>M-68A</b> <b>M-68HV</b>	STANDARD VOLUME AND PRESSURE HI PRESSURE OIL PUMP HI VOL PUMP; 25% ADDL VOL OF OIL; CHECK FOR PAN AND CRANK CLEARANCE; MAY REQUIRE OIL PAN MODIFICATION MAY REQUIRE OIL PAN MODIFICATION
	Intermediate Shaft	<b>IS-68</b>	
	Camshafts Using Hydraulic Lifters	<b>24107</b>  <b>24209</b>  <b>SYB-26</b>  <b>SYB-35</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; POWER RANGE IDLE-4400; CAM LIFT .260 INT./.278 EXH; VALVE LIFT .416 INT./.444 EXH. STD. ROTATION-351W FIRING ORDER. CAM LIFT .260 INT. .278 EXH. CLASS II. NOT CALIFORNIA COMPLIANT. NOT COMPUTER COMPATIBLE. POWER RANGE 1300-4800; CAM LIFT .278 INT./.283 EXH; VALVE LIFT .445 INT./.453 EXH. CHAIN DRIVE- REVERSE ROTATION- 18456273 FIRING ORDER. CAM LIFT .278 INT. .283 EXH. CHAIN DRIVE; STD. ROTATION; 302 FIRING ORDER; COMPUTER COMPATIBLE; CLASS I; NOT CALIFORNIA COMPLIANT; POWER RANGE IDLE-4200; CAM LIFT .238 INT./.247 EXH; VALVE LIFT .380 INT./.396 EXH. NOT CALIFORNIA COMPLIANT. CHAIN DRIVE- STD. ROTATION-351W FIRING ORDER. CAM LIFT .278 INT. .283 EXH.
	Hydraulic Lifters	<b>JB-900</b>	
	Intake Valve	<b>V1001</b> <b>V1137</b> <b>V1137+3</b> <b>V1174</b> <b>V1238</b> <b>V1328</b> <b>V1328+3</b> <b>V1538</b>	Head Dia. 1.780 Head Dia. 1.781 Head Dia. 1.781 .003 OVERSIZE VALVE Head Dia. 2.192 Head Dia. 1.844 Head Dia. 1.782 Head Dia. 1.782 .003 OVERSIZE VALVE Head Dia. 1.782
	Exhaust Valve	<b>V1000</b> <b>V1135</b> <b>V1135+15</b> <b>V1135+3</b> <b>V1173</b> <b>V1237</b> <b>V1537</b>	Head Dia. 1.450 Head Dia. 1.452 Head Dia. 1.452 .015 OVERSIZE VALVE Head Dia. 1.452 .003 OVERSIZE VALVE Head Dia. 1.710 Head Dia. 1.543 Head Dia. 1.448
	Valve Spring with Hydraulic Lifters	<b>VS-280</b>	
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-548</b>  <b>MRK-610</b>	1978-1995 KIT INCLUDES 1-MR-889 ARM, 1-MRM-1776 FULCRUM & 1-MRM-1741 BOLT W/STAMPED ROCKER ARMS 1968-1978 KIT INCLUDES 1-MR-886 ARM, 1-MRM-1772 BALL, 1-MRM-1786 3/8 INCH NUT & 1-MRM-1791 5/16 INCH NUT W/CAST ROCKER ARMS
	Rocker Arm Stud	<b>MRDS-934</b> <b>MRDS-937</b>	STANDARD SIZE STANDARD SIZE .006 O/S
	Chrome Moly Push Rods	<b>500404</b>	MAX. SPRING PRESSURE 350 LBS
	Continued on Next Page		

**FORD MARINE (Continued)**

Line No.	Part Title	Part No	Description
<b>2</b>	<b>302 (5.0) ENG - V8 - 4.000 Bore</b> (BERKLEY JET DRIVE, COMMANDER, CRUSADER, DEARBORN, FORD MARINE, GLASTRON, HOLMAN-MOODY, INDMAR, MERCUISER, OMC, OSCO, PALMER, PLEASURECRAFT, VOLVO-PENTA, WAUKESHA, INTERCEPTOR/CONQUEROR) (Continued)		
	3pc Set	<b>40402</b>	FACTORY ONE PIECE FUEL PUMP ECCENTRIC, INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +4 DEGREE/-4 DEGREE CAM ADJUSTMENT. CENTER DISTANCE 4.804 INCHES
<b>3</b>	<b>351W (5.8) ENG - V8 - 4.000 Bore</b> (BERKLEY JET DRIVE, COMMANDER, CRUSADER, DEARBORN, FORD MARINE, GLASTRON, HOLMAN-MOODY, INDMAR, MERCUISER, INTERCEPTOR/CONQUEROR, OMC, OSCO, PALMER, PLEASURECRAFT, VOLVO-PENTA, WAUKESHA)		
	Oil Pump	<b>M-83</b> <b>M-83HV</b>	STANDARD VOLUME AND PRESSURE; DOES NOT INCLUDE OIL PUMP SCREEN HI VOL PUMP; 25% ADDL VOL OF OIL THAN STOCK PUMP; DOES NOT INCLUDE OIL PUMP SCREEN; CHECK FOR PAN AND CRANK CLEARANCE
	Intermediate Shaft	<b>IS-83</b>	
	Camshafts Using Hydraulic Lifters	<b>24107</b>  <b>24209</b>  <b>SYB-35</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; POWER RANGE IDLE-4400; CAM LIFT .260 INT./.278 EXH; VALVE LIFT .416 INT./.444 EXH. CHAIN DRIVE- STD. ROTATION- 351W FIRING ORDER. COMPUTER COMPATIBLE. CAM LIFT .260 INT. .278 EXH. CLASS II. NOT CALIFORNIA COMPLIANT. NOT COMPUTER COMPATIBLE. POWER RANGE 1300-4800; CAM LIFT .278 INT./.283 EXH; VALVE LIFT .445 INT./.453 EXH. CHAIN DRIVE- REVERSE ROTATION- 18456273 FIRING ORDER. CAM LIFT .278 INT. .283 EXH. NOT CALIFORNIA COMPLIANT. CHAIN DRIVE- STD. ROTATION- 351W FIRING ORDER (SEE SPEC'S). CAM LIFT .278 INT. .283 EXH.
	Hydraulic Lifters	<b>JB-900</b>	
	Intake Valve	<b>V1238</b> <b>V1328</b> <b>V1328+3</b>	Head Dia. 1.844 Head Dia. 1.782 Head Dia. 1.782 .003 OVERSIZE VALVE
	Exhaust Valve	<b>V1135</b> <b>V1135+15</b> <b>V1135+3</b> <b>V1237</b> <b>V1327</b> <b>V1453</b> <b>V1453+3</b>	Head Dia. 1.452 Head Dia. 1.452 .015 OVERSIZE VALVE Head Dia. 1.452 .003 OVERSIZE VALVE Head Dia. 1.543 Head Dia. 1.461 Head Dia. 1.462 Head Dia. 1.462 .003 OVERSIZE VALVE
	Valve Spring with Hydraulic Lifters	<b>VS-280</b>	
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-548</b>  <b>MRK-610</b>	1978-1997 KIT INCLUDES 1-MR-889 ARM, 1-MRM-1776 FULCRUM & 1-MRM-1741 BOLT W/STAMPED ROCKER ARMS 1969-1978 KIT INCLUDES 1-MR-886 ARM, 1-MRM-1772 BALL, 1-MRM-1786 3/8 INCH NUT & 1-MRM-1791 5/16 INCH NUT W/CAST ROCKER ARMS
	Continued on Next Page		

Line No.	Part Title	Part No	Description
<b>3</b>	<b>351W (5.8) ENG - V8 - 4.000 Bore</b> (BERKLEY JET DRIVE, COMMANDER, CRUSADER, DEARBORN, FORD MARINE, GLASTRON, HOLMAN-MOODY, INDMAR, MERCURISER, INTERCEPTOR/CONQUEROR, OMC, OSCO, PALMER, PLEASURECRAFT, VOLVO-PENTA, WAUKESHA) (Continued)		
	3pc Set	<b>40402</b>	FACTORY ONE PIECE FUEL PUMP ECCENTRIC, INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +4 DEGREE/-4 DEGREE CAM ADJUSTMENT. CENTER DISTANCE 4.804 INCHES
<b>4</b>	<b>429 (7.0) ENG - V8 - 4.360 Bore</b> (FORD MARINE)		
	Oil Pump	<b>M-84</b>	STANDARD VOLUME AND PRESSURE; DOES NOT INCLUDE OIL PUMP SCREEN
	Intermediate Shaft	<b>IS-84</b>	
	Camshafts Using Hydraulic Lifters	<b>24213</b>	CLASS II; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; POWER RANGE 1800-5300; CAM LIFT .285 INT./.290 EXH; VALVE LIFT .493 INT./.502 EXH. CHAIN DRIVE- STD. ROTATION. CAM LIFT .285 INT. .290 EXH.
	Hydraulic Lifters	<b>JB-900</b>	
	Intake Valve	<b>V1166</b> <b>V1230</b> <b>V1272</b>	Head Dia. 2.245 Head Dia. 2.200 Head Dia. 2.083
	Exhaust Valve	<b>V1102</b> <b>V1165</b> <b>V1229</b> <b>V1271</b>	Head Dia. 1.653 Head Dia. 1.725 Head Dia. 1.725 Head Dia. 1.653
	Valve Spring with Hydraulic Lifters	<b>VS-280</b>	
	Valve Locks	<b>476104</b>	
	3pc Set	<b>40403</b>	INCLUDES .250 INCH DOUBLE SEAMLESS ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT. CENTER DISTANCE 6.078 INCHES
<b>5</b>	<b>460 (7.5) ENG - V8 - 4.360 Bore</b> (BERKLEY JET DRIVE, CHRYSLER MARINE, COMMANDER, FORD MARINE, HARDEN, HOLMAN-MOODY, INDMAR, OMC, PLEASURECRAFT)		
	Oil Pump	<b>M-84</b>	STANDARD VOLUME AND PRESSURE; DOES NOT INCLUDE OIL PUMP SCREEN
	Intermediate Shaft	<b>IS-84</b>	
	Camshafts Using Hydraulic Lifters	<b>24213</b>	CLASS II; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; POWER RANGE 1800-5300; CAM LIFT .285 INT./.290 EXH; VALVE LIFT .493 INT./.502 EXH. CHAIN DRIVE- STD. ROTATION. CAM LIFT .285 INT. .290 EXH.
	Hydraulic Lifters	<b>JB-900</b>	
	Intake Valve	<b>V1230</b> <b>V1272</b>	Head Dia. 2.200 Head Dia. 2.083
	Exhaust Valve	<b>V1102</b> <b>V1229</b> <b>V1271</b>	Head Dia. 1.653 Head Dia. 1.725 Head Dia. 1.653
	Valve Spring with Hydraulic Lifters	<b>VS-280</b>	
	Valve Locks	<b>476104</b>	
	<i>Continued on Next Page</i>		



**FORD MARINE (Continued)**

Line No.	Part Title	Part No	Description
<b>5</b>	<b>460 (7.5) ENG - V8 - 4.360 Bore</b> (BERKLEY JET DRIVE, CHRYSLER MARINE, COMMANDER, FORD MARINE, HARDEN, HOLMAN-MOODY, INDMAR, OMC, PLEASURECRAFT) (Continued)		
	3pc Set	<b>40403</b>	INCLUDES .250 INCH DOUBLE SEAMLESS ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT. CENTER DISTANCE 6.078 INCHES

**MERCURY MARINE**

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
<b>4 Cyl.</b>			<b>V6</b>			<b>V8 (Continued)</b>		
153 (2.5)		1	262 (4.3)		6	351W (5.8)		12
181 (3.0)		2	<b>V8</b>			427 (7.0)		13
224 (3.7)		3	283 (4.6)		7	454 (7.4)		14
<b>V6</b>			302 (5.0)		8	482 (7.9)		15
229 (3.8)		4	305 (5.0)		9	495 (8.1)	2001-05	16
<b>6 Cyl.</b>			327 (5.4)		10	502 (8.2)		17
250 (4.1)		5	350 (5.7)		11			

Line No.	Part Title	Part No	Description
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<b>1</b>	<b>153 (2.5) ENG - 4 Cyl. - 3 7/8 Bore</b> (MERCUISER 120)		
	Oil Pump	<b>M-62</b> <b>M-62HV</b>	STANDARD VOLUME AND PRESSURE; DOES NOT INCLUDE OIL PUMP SCREEN HI VOL PUMP-20% ADDL VOL OF OIL THAN STOCK PUMP. CHECK FOR PAN AND CRANK CLEARANCE
	Camshafts Using Hydraulic Lifters	<b>22116</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .232 INT./ .232 EXH; VALVE LIFT .406 INT./ .406 EXH. (GEAR DRIVE; STD. ROTATION)
	Hydraulic Lifters	<b>JB-817</b>	
	Valve Spring with Hydraulic Lifters	<b>VS-380</b> <b>VS-739</b> <b>VS-739R</b>	CHROME VANADIUM CHROME VANADIUM
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-402</b>	KIT INCLUDES 1-MR-844 ARM, 1-MRM-1783 BALL & 1-MRM-1786 NUT
	Rocker Arm Stud	<b>MRDS-921</b>	PRESS IN STUD; ADJUSTABLE W/ENGLISH THREADS; .003 O/S
	Chrome Moly Push Rods	<b>500494</b>	MAX. SPRING PRESSURE 350 LBS
	Gear Set	<b>2528S</b>	ALUM. CAM GEAR & STEEL CRANK GEAR

<b>2</b>	<b>181 (3.0) ENG - 4 Cyl. - 4.000 Bore</b> (MERCUISER 140, 3.0/3.0LX)		
	Oil Pump	<b>M-62</b> <b>M-62HV</b>	STANDARD VOLUME AND PRESSURE; DOES NOT INCLUDE OIL PUMP SCREEN HI VOL PUMP-20% ADDL VOL OF OIL THAN STOCK PUMP. CHECK FOR PAN AND CRANK CLEARANCE
	Camshafts Using Hydraulic Lifters	<b>22117</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .253 INT./ .253 EXH; VALVE LIFT .441 INT./ .442 EXH. GEAR DRIVE- STD. ROTATION. COMPUTER COMPATIBLE.
	Hydraulic Lifters	<b>JB-817</b>	
	Intake Valve	<b>V1195</b> <b>V1195+15</b> <b>V1195+3</b>	Head Dia. 1.940 STANDARD SIZE VALVE Head Dia. 1.940 .015 O/S VALVE Head Dia 1.940 .003 O/S VALVE
	Exhaust Valve	<b>V0919</b>	Head Dia. 1.600
	Valve Spring with Hydraulic Lifters <i>Continued on Next Page</i>	<b>VS-380</b>	

**MERCURY MARINE (Continued)**

Line No.	Part Title	Part No	Description
<b>2</b>	<b>181 (3.0) ENG - 4 Cyl. - 4.000 Bore</b> (MERCUISER 140, 3.0/3.0LX) (Continued)		
	Valve Spring with Hydraulic Lifters	<b>VS-739</b>	CHROME VANADIUM
		<b>VS-739R</b>	CHROME VANADIUM
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-402</b>	KIT INCLUDES 1-MR-844 ARM, 1-MRM-1783 BALL & 1-MRM-1786 NUT
	Rocker Arm Stud	<b>MRDS-921</b>	PRESS IN STUD; ADJUSTABLE W/ENGLISH THREADS; .003 O/S
	Chrome Moly Push Rods	<b>500494</b>	MAX. SPRING PRESSURE 350 LBS
	Gear Set	<b>2528S</b>	ALUM. CAM GEAR & STEEL CRANK GEAR
<b>3</b>	<b>224 (3.7) ENG - 4 Cyl. - 4.36 Bore</b> (MERCUISER 165/3.7L, 170 & 180/3.7LX, 190, 470, 485, 488)		
	Oil Pump	<b>M138</b>	NEW DESIGN (CAST IRON). USE MERCURY SCREEN #13843A 2
	Push Rods	<b>MPR-308</b>	8.648 O.A.L
	Hydraulic Lifters	<b>JB-900</b>	
	Intake Valve	<b>V1272</b>	Head Dia. 2.083
	Exhaust Valve	<b>V1271</b>	Head Dia. 1.653
	Valve Springs	<b>VS-810</b>	
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-547</b>	KIT INCLUDES 1-MR-888 ARM, 1-MRM-1776 FULCRUM & 1-MRM-1740 BOLT
<b>4</b>	<b>229 (3.8) ENG - V6 - 3.736 Bore</b> (MERCUISER 185)		
	Oil Pump	<b>M-55A</b> <b>M-55HV</b>	HI VOL PUMP; 25% ADDL VOL OF OIL THAN STOCK PUMP; MUST USE IS SHAFT W/STEEL GUIDE; 5/8 INCH SCREEN INLET; CHECK FOR PAN AND CRANK CLEARANCE
	Screen Assy	<b>55-S1</b>	
	Intermediate Shaft	<b>12550</b>  <b>IS-55E</b>  <b>IS-55G</b>	PERFORMANCE TYPE INTERMEDIATE SHAFT. HIGH STRENGTH (150,000 PSI) CHROME MOLY STEEL. IMPROVED SHAFT RETAINER WHICH LOCKS ONTO THE OIL PUMP DRIVE SHAFT MANUFACTURED W/ STEEL SHAFT GUIDE; ELIMINATES NYLON SHAFT GUIDE DOES NOT INCLUDE SHAFT GUIDE; USE W/M-55005 NYLON SHAFT GUIDE
	Hydraulic Lifters	<b>JB-817</b>	
	Intake Valve	<b>V1393</b>	Head Dia. 1.840
	Valve Spring with Hydraulic Lifters	<b>VS-380</b>  <b>VS-739</b> <b>VS-739R</b>	CHROME VANADIUM CHROME VANADIUM
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-401</b>	KIT INCLUDES (1) MR-842 ARM, (1) MRM-1731 BALL, (1) MRM-1786 NUT
	Chrome Moly Push Rods	<b>500314</b>	5/16 INCH DIAMETER; STANDARD LENGTH; HEAT TREATED FOR GUIDE PLATES; MAXIMUM SPRING PRESSURE 350 LBS
	3pc Set	<b>40400</b>	BETTER; INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT, CENTER DISTANCE 4.521 INCHES FOR STD. DRIVE ROTATION
<b>5</b>	<b>250 (4.1) ENG - 6 Cyl. - 3 7/8 Bore</b> (MERCUISER 160, 165)		
	Oil Pump	<b>M-62</b>  <b>M-62HV</b>	STANDARD VOLUME AND PRESSURE; DOES NOT INCLUDE OIL PUMP SCREEN HI VOL PUMP-20% ADDL VOL OF OIL THAN STOCK PUMP. CHECK FOR PAN AND CRANK CLEARANCE
	Screen Assy	<b>62-S3</b>	165 ENG. FROM SER. #2770032 TO 4331786
	<i>Continued on Next Page</i>		

**MERCURY MARINE (Continued)**

Line No.	Part Title	Part No	Description
<b>5</b>	<b>250 (4.1) ENG - 6 Cyl. - 3 7/8 Bore (MERCUISER 160, 165) (Continued)</b>		
	Screen Assy	<b>62-S3</b> <b>62-S3</b> <b>62-S6</b>	165 ENG. FROM SER. #5178959 AND UP ALL 160 ENG. 165 ENG. FROM SER. #4331787 TO 5178958
	Camshafts Using Hydraulic Lifters	<b>22118</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .230 INT./ .230 EXH; VALVE LIFT .403 INT./ .403 EXH. STD. ROTATION; COMPUTER COMPATIBLE; CAM LIFT .230 INT. .230 EXH.
	Hydraulic Lifters	<b>JB-817</b>	
	Valve Springs	<b>VS-390</b>	
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-402</b>	KIT INCLUDES 1-MR-844 ARM, 1-MRM-1783 BALL & 1-MRM-1786 NUT
	Rocker Arm Stud	<b>MRDS-921</b>	PRESS IN STUD; ADJUSTABLE W/ENGLISH THREADS; .003 O/S
	Chrome Moly Push Rods	<b>500494</b>	MAX. SPRING PRESSURE 350 LBS
	Gear Set	<b>2528S</b>	ALUM. CAM GEAR & STEEL CRANK GEAR
<b>6</b>	<b>262 (4.3) ENG - V6 - 4.000 Bore (MERCUISER 175/4.3L, 185, 205, 205 4.3LX)</b>		
	Oil Pump	<b>M-55</b>  <b>M-55HV</b>  <b>M155</b>  <b>M155HV</b>	STANDARD VOLUME AND PRESSURE; 5/8 INCH SCREEN INLET ALL EXC. 4.3LX GEN II FROM SER. #OF601127 AND UP HI VOL PUMP; 25% ADDL VOL OF OIL THAN STOCK PUMP; MUST USE IS SHAFT W/STEEL GUIDE; 5/8 INCH SCREEN INLET; CHECK FOR PAN AND CRANK CLEARANCE ALL EXC. 4.3LX GEN II FROM SER. #OF601127 AND UP STANDARD VOLUME AND PRESSURE; 3/4 INCH SCREEN INLET 4.3LX GEN II FROM SER. #OF601127 AND UP HI VOL PUMP-25% ADDL VOL OF OIL THAN STOCK PUMP (MUST USE IS SHAFT W/STEEL GUIDE) 3/4 INCH SCREEN INLET. CHECK FOR PAN AND CRANK CLEARANCE 4.3LX GEN II FROM SER. #OF601127 AND UP
	Screen Assy	<b>213S</b> <b>258S</b> <b>55-S2</b>	4.3LX GEN II FROM SER. #OF601127 AND UP 4.3LX GEN II WITH CAST ALUMINUM PAN 1996 & UP ALL EXC. 4.3LX GEN II FROM SER. #OF601127 AND UP
	Intermediate Shaft	<b>12550</b>  <b>IS-55E</b>  <b>IS-55G</b>	PERFORMANCE TYPE INTERMEDIATE SHAFT. HIGH STRENGTH (150,000 PSI) CHROME MOLY STEEL. IMPROVED SHAFT RETAINER WHICH LOCKS ONTO THE OIL PUMP DRIVE SHAFT MANUFACTURED W/ STEEL SHAFT GUIDE; ELIMINATES NYLON SHAFT GUIDE DOES NOT INCLUDE SHAFT GUIDE; USE W/M-55005 NYLON SHAFT GUIDE
	Camshafts Using Hydraulic Lifters	<b>22123</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .273 INT./ .273 EXH; VALVE LIFT .410 INT./ .410 EXH. CHAIN DRIVE; STD. ROTATION W/O BALANCE SHAFT
	Camshafts Using Hydraulic Roller Lifters	<b>22119</b>  <b>22120</b>  <b>22222</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .269 INT./ .273 EXH; VALVE LIFT .403 INT./ .409 EXH. CHAIN DRIVE; STD. ROTATION W/O BAL. SHAFT CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .269 INT./ .273 EXH; VALVE LIFT .403 INT./ .409 EXH. GEAR DRIVE; REVERSE ROTATION W/O BAL SHAFT CLASS II; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .269 INT./ .273 EXH; VALVE LIFT .403 INT./ .410 EXH. CHAIN DRIVE- STD. ROTATION W/ BAL. SHAFT
	Push Rods	<b>MPR-373</b>	USE WITH HYD. ROLLER LIFTER CAM
	<i>Continued on Next Page</i>		

**MERCURY MARINE (Continued)**

Line No.	Part Title	Part No	Description
<b>6</b>	<b>262 (4.3) ENG - V6 - 4.000 Bore</b> (MERCUISER 175/4.3L, 185, 205, 205 4.3LX) (Continued)		
	Hydraulic Lifters	<b>JB-817</b>	STOCK TYPE REPLACEMENT LIFTER
	Hydraulic Roller Lifters	<b>JB-2079</b>	STOCK TYPE REPLACEMENT LIFTER
	Intake Valve	<b>V1195</b> <b>V1195+15</b> <b>V1195+3</b>	Head Dia. 1.940 STANDARD SIZE VALVE Head Dia. 1.940 .015 O/S VALVE Head Dia 1.940 .003 O/S VALVE
	Valve Spring with Hydraulic Lifters	<b>VS-380</b>  <b>VS-739</b> <b>VS-739R</b>	  CHROME VANADIUM CHROME VANADIUM
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-401</b>	KIT INCLUDES (1) MR-842 ARM, (1) MRM-1731 BALL, (1) MRM-1786 NUT DO NOT USE W/ROLLER CAMS
	Rocker Arm Stud	<b>MRDS-921</b>	PRESS IN STUD; ADJUSTABLE W/ENGLISH THREADS; .003 O/S
	Chrome Moly Push Rods	<b>500314</b>	5/16 INCH DIAMETER; STANDARD LENGTH; HEAT TREATED FOR GUIDE PLATES; MAXIMUM SPRING PRESSURE 350 LBS USE WITH HYD. FLAT LIFTER CAM
	3pc Set	<b>3-509S</b>  <b>40400</b>	INCLUDES 499, S776 & S505 STOCK REPLACEMENT TYPE 3 PC SET BETTER; INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT, CENTER DISTANCE 4.521 INCHES HIGH PERFORMANCE TYPE 3 PC SET; USE WITH FLAT LIFTER CAM; USE W/STD. DRIVE ROTATION
<b>7</b>	<b>283 (4.6) ENG - V8 - 3.875 Bore</b> (MERCUISER 190)		
	Oil Pump	<b>M-55</b> <b>M-55HV</b>	STANDARD VOLUME AND PRESSURE; 5/8 INCH SCREEN INLET HI VOL PUMP; 25% ADDL VOL OF OIL THAN STOCK PUMP; MUST USE IS SHAFT W/STEEL GUIDE; 5/8 INCH SCREEN INLET; CHECK FOR PAN AND CRANK CLEARANCE
	Screen Assy	<b>55-S2</b>	
	Intermediate Shaft	<b>12550</b>  <b>IS-55E</b>  <b>IS-55G</b>	PERFORMANCE TYPE INTERMEDIATE SHAFT. HIGH STRENGTH (150,000 PSI) CHROME MOLY STEEL. IMPROVED SHAFT RETAINER WHICH LOCKS ONTO THE OIL PUMP DRIVE SHAFT MANUFACTURED W/ STEEL SHAFT GUIDE; ELIMINATES NYLON SHAFT GUIDE DOES NOT INCLUDE SHAFT GUIDE; USE W/M-55005 NYLON SHAFT GUIDE
	Camshafts Using Hydraulic Lifters	<b>22124</b>    <b>22125</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .267 INT./ .273 EXH; VALVE LIFT .401 INT./ .410 EXH. CHAIN DRIVE- STD. ROTATION. COMPUTER COMPATIBLE. CAM LIFT .267 INT. .273 EXH. CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .267 INT./ .273 EXH; VALVE LIFT .401 INT./ .410 EXH. GEAR DRIVE- REVERSE ROTATION. COMPUTER COMPATIBLE. CAM LIFT .267 INT. .273 EXH.
	Hydraulic Lifters	<b>JB-817</b>	
	Valve Spring with Hydraulic Lifters	<b>466354</b>	
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-401</b>	KIT INCLUDES (1) MR-842 ARM, (1) MRM-1731 BALL, (1) MRM-1786 NUT
	Rocker Arm Stud	<b>MRDS-921</b>	PRESS IN STUD; ADJUSTABLE W/ENGLISH THREADS; .003 O/S
	<i>Continued on Next Page</i>		

**MERCURY MARINE (Continued)**

Line No.	Part Title	Part No	Description
<b>7</b>	<b>283 (4.6) ENG - V8 - 3.875 Bore (MERCURISER 190) (Continued)</b>		
	Chrome Moly Push Rods	<b>500314</b>	5/16 INCH DIAMETER; STANDARD LENGTH; HEAT TREATED FOR GUIDE PLATES; MAXIMUM SPRING PRESSURE 350 LBS HARDENED
	3pc Set	<b>40400</b>	BETTER; INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT, CENTER DISTANCE 4.521 INCHES FOR STD. DRIVE ROTATION
	Cam Gear	<b>2534</b>	58 TEETH FOR REVERSE DRIVE ROTATION
	Crank Gear	<b>2535</b>	29 TEETH FOR REVERSE DRIVE ROTATION
<b>8</b>	<b>302 (5.0) ENG - V8 - 4.000 Bore (MERCURISER 215, 225, 225S, 888)</b>		
	Oil Pump	<b>M-68 M-68A M-68HV</b>	STANDARD VOLUME AND PRESSURE HI PRESSURE OIL PUMP HI VOL PUMP; 25% ADDL VOL OF OIL; CHECK FOR PAN AND CRANK CLEARANCE; MAY REQUIRE OIL PAN MODIFICATION MAY REQUIRE OIL PAN MODIFICATION
	Intermediate Shaft	<b>IS-68</b>	
	Camshafts Using Hydraulic Lifters	<b>24107  24209  SYB-26  SYB-35</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; POWER RANGE IDLE-4400; CAM LIFT .260 INT./ .278 EXH; VALVE LIFT .416 INT./ .444 EXH. CHAIN DRIVE- STANDARD. ROTATION- 351W FIRING ORDER. COMPUTER COMPATIBLE. CAM LIFT .260 INT. .278 EXH. CLASS II. NOT CALIFORNIA COMPLIANT. NOT COMPUTER COMPATIBLE. POWER RANGE 1300-4800; CAM LIFT .278 INT./ .283 EXH; VALVE LIFT .445 INT./ .453 EXH. CHAIN DRIVE- REVERSE ROTATION-18456273 FIRING ORDER. CAM LIFT .278 INT. .283 EXH. CHAIN DRIVE; STD. ROTATION; 302 FIRING ORDER; COMPUTER COMPATIBLE; CLASS I; NOT CALIFORNIA COMPLIANT; POWER RANGE IDLE-4200; CAM LIFT .238 INT./ .247 EXH; VALVE LIFT .380 INT./ .396 EXH. CHAIN DRIVE- STD. ROTATION- 351W FIRING ORDER. CAM LIFT .278 INT. .283 EXH.
	Hydraulic Lifters	<b>JB-900</b>	
	Intake Valve	<b>V1001 V1137 V1137+3 V1174 V1238 V1328 V1328+3 V1538</b>	Head Dia. 1.780 Head Dia. 1.781 Head Dia. 1.781 .003 OVERSIZE VALVE Head Dia. 2.192 Head Dia. 1.844 Head Dia. 1.782 Head Dia. 1.782 .003 OVERSIZE VALVE Head Dia. 1.782
	Exhaust Valve	<b>V1000 V1135 V1135+15 V1135+3 V1173 V1237 V1537</b>	Head Dia. 1.450 Head Dia. 1.452 Head Dia. 1.452 .015 OVERSIZE VALVE Head Dia. 1.452 .003 OVERSIZE VALVE Head Dia. 1.710 Head Dia. 1.543 Head Dia. 1.448
	Valve Spring with Hydraulic Lifters	<b>VS-280</b>	
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-548</b>	1978-1995 KIT INCLUDES 1-MR-889 ARM, 1-MRM-1776 FULCRUM & 1-MRM-1741 BOLT W/STAMPED ROCKER ARMS
	<i>Continued on Next Page</i>		

Line No.	Part Title	Part No	Description
<b>8</b>	<b>302 (5.0) ENG - V8 - 4.000 Bore</b> (MERCUISER 215, 225, 225S, 888) (Continued)		
	Rocker Arm Kit	<b>MRK-610</b>	1968-1978 KIT INCLUDES 1-MR-886 ARM, 1-MRM-1772 BALL, 1-MRM-1786 3/8 INCH NUT & 1-MRM-1791 5/16 INCH NUT W/CAST ROCKER ARMS
	Rocker Arm Stud	<b>MRDS-934</b> <b>MRDS-937</b>	STANDARD SIZE STANDARD SIZE .006 O/S
	Chrome Moly Push Rods	<b>500404</b>	MAX. SPRING PRESSURE 350 LBS
	3pc Set	<b>40402</b>	FACTORY ONE PIECE FUEL PUMP ECCENTRIC, INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +4 DEGREE/-4 DEGREE CAM ADJUSTMENT. CENTER DISTANCE 4.804 INCHES
<b>9</b>	<b>305 (5.0) ENG - V8 - 3.736 Bore</b> (MERCUISER 200/5.0L, 228, 230/5.0L MIE, 230/5.0LX, 898, 898/198)		
	Oil Pump	<b>M-55</b> <b>M-55HV</b>	STANDARD VOLUME AND PRESSURE; 5/8 INCH SCREEN INLET HI VOL PUMP; 25% ADDL VOL OF OIL THAN STOCK PUMP; MUST USE IS SHAFT W/STEEL GUIDE; 5/8 INCH SCREEN INLET; CHECK FOR PAN AND CRANK CLEARANCE
	Screen Assy	<b>55-S</b> <b>55-S1</b> <b>55-S2</b>	SEE PHOTO SECTION IN THIS CATALOG FOR IDENTIFICATION SEE PHOTO SECTION IN THIS CATALOG FOR IDENTIFICATION SEE PHOTO SECTION IN THIS CATALOG FOR IDENTIFICATION
	Intermediate Shaft	<b>12550</b>  <b>IS-55E</b>  <b>IS-55G</b>	PERFORMANCE TYPE INTERMEDIATE SHAFT. HIGH STRENGTH (150,000 PSI) CHROME MOLY STEEL. IMPROVED SHAFT RETAINER WHICH LOCKS ONTO THE OIL PUMP DRIVE SHAFT MANUFACTURED W/ STEEL SHAFT GUIDE; ELIMINATES NYLON SHAFT GUIDE DOES NOT INCLUDE SHAFT GUIDE; USE W/M-55005 NYLON SHAFT GUIDE
	Camshafts Using Hydraulic Lifters	<b>22124</b>    <b>22125</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .267 INT./.273 EXH; VALVE LIFT .401 INT./.410 EXH. CHAIN DRIVE- STD. ROTATION. COMPUTER COMPATIBLE. CAM LIFT .267 INT. .273 EXH. CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .267 INT./.273 EXH; VALVE LIFT .401 INT./.410 EXH. GEAR DRIVE- REVERSE ROTATION. COMPUTER COMPATIBLE. CAM LIFT .267 INT. .273 EXH.
	Hydraulic Lifters	<b>JB-817</b>	
	Valve Spring with Hydraulic Lifters	<b>466354</b>	
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-401</b>	KIT INCLUDES (1) MR-842 ARM, (1) MRM-1731 BALL, (1) MRM-1786 NUT
	Rocker Arm Stud	<b>MRDS-921</b>	PRESS IN STUD; ADJUSTABLE W/ENGLISH THREADS; .003 O/S
	Chrome Moly Push Rods	<b>500314</b>	5/16 INCH DIAMETER; STANDARD LENGTH; HEAT TREATED FOR GUIDE PLATES; MAXIMUM SPRING PRESSURE 350 LBS
	3pc Set	<b>40400</b>	BETTER; INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT, CENTER DISTANCE 4.521 INCHES FOR STD. DRIVE ROTATION
	Cam Gear	<b>2534</b>	58 TEETH FOR REVERSE DRIVE ROTATION
	Crank Gear	<b>2535</b>	29 TEETH FOR REVERSE DRIVE ROTATION
<b>10</b>	<b>327 (5.4) ENG - V8 - 4.000 Bore</b> (MERCUISER 225, 250)		
	Oil Pump	<b>M-55</b>	STANDARD VOLUME AND PRESSURE; 5/8 INCH SCREEN INLET
	<i>Continued on Next Page</i>		

**MERCURY MARINE (Continued)**

Line No.	Part Title	Part No	Description
<b>10</b>	<b>327 (5.4) ENG - V8 - 4.000 Bore (MERCURISER 225, 250) (Continued)</b>		
	Oil Pump	<b>M-55HV</b>	HI VOL PUMP; 25% ADDL VOL OF OIL THAN STOCK PUMP; MUST USE IS SHAFT W/STEEL GUIDE; 5/8 INCH SCREEN INLET; CHECK FOR PAN AND CRANK CLEARANCE
	Screen Assy	<b>55-S2</b>	
	Intermediate Shaft	<b>12550</b>  <b>IS-55E</b>  <b>IS-55G</b>	PERFORMANCE TYPE INTERMEDIATE SHAFT. HIGH STRENGTH (150,000 PSI) CHROME MOLY STEEL. IMPROVED SHAFT RETAINER WHICH LOCKS ONTO THE OIL PUMP DRIVE SHAFT MANUFACTURED W/ STEEL SHAFT GUIDE; ELIMINATES NYLON SHAFT GUIDE DOES NOT INCLUDE SHAFT GUIDE; USE W/M-55005 NYLON SHAFT GUIDE
	Camshafts Using Hydraulic Lifters	<b>22124</b>    <b>22125</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .267 INT./ .273 EXH; VALVE LIFT .401 INT./ .410 EXH. CHAIN DRIVE- STD. ROTATION. COMPUTER COMPATIBLE. CAM LIFT .267 INT. .273 EXH. CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .267 INT./ .273 EXH; VALVE LIFT .401 INT./ .410 EXH. GEAR DRIVE- REVERSE ROTATION. COMPUTER COMPATIBLE. CAM LIFT .267 INT. .273 EXH.
	Hydraulic Lifters	<b>JB-817</b>	
	Intake Valve	<b>V1195</b> <b>V1195+15</b> <b>V1195+3</b>	Head Dia. 1.940 STANDARD SIZE VALVE Head Dia. 1.940 .015 O/S VALVE Head Dia 1.940 .003 O/S VALVE
	Valve Spring with Hydraulic Lifters	<b>VS-380</b>  <b>VS-739</b> <b>VS-739R</b>	CHROME VANADIUM CHROME VANADIUM
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-401</b>	KIT INCLUDES (1) MR-842 ARM, (1) MRM-1731 BALL, (1) MRM-1786 NUT
	Rocker Arm Stud	<b>MRDS-921</b>	PRESS IN STUD; ADJUSTABLE W/ENGLISH THREADS; .003 O/S
	Chrome Moly Push Rods	<b>500314</b>	5/16 INCH DIAMETER; STANDARD LENGTH; HEAT TREATED FOR GUIDE PLATES; MAXIMUM SPRING PRESSURE 350 LBS
	3pc Set	<b>40400</b>	BETTER; INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT, CENTER DISTANCE 4.521 INCHES FOR STD. DRIVE ROTATION
	Cam Gear	<b>2534</b>	58 TEETH FOR REVERSE DRIVE ROTATION
	Crank Gear	<b>2535</b>	29 TEETH FOR REVERSE DRIVE ROTATION
<b>11</b>	<b>350 (5.7) ENG - V8 - 4.000 Bore (MERCURISER 250, 255, 260, 260 5.7L, LX ALPHA, BRAVO, MAG BRAVO EFI, 270, 280, 300, 320 EFI, 260 MIE, 260/5.7 MIE, 5.7 SKI, 350 MAG SKI, MAG ALPHA)</b>		
	Oil Pump	<b>M-55</b> <b>M-55HV</b>	STANDARD VOLUME AND PRESSURE; 5/8 INCH SCREEN INLET HI VOL PUMP; 25% ADDL VOL OF OIL THAN STOCK PUMP; MUST USE IS SHAFT W/STEEL GUIDE; 5/8 INCH SCREEN INLET; CHECK FOR PAN AND CRANK CLEARANCE
	Screen Assy	<b>55-S</b> <b>55-S1</b> <b>55-S2</b>	SEE PHOTO SECTION IN THIS CATALOG FOR IDENTIFICATION SEE PHOTO SECTION IN THIS CATALOG FOR IDENTIFICATION SEE PHOTO SECTION IN THIS CATALOG FOR IDENTIFICATION
	Intermediate Shaft	<b>12550</b>    <b>IS-55E</b>	PERFORMANCE TYPE INTERMEDIATE SHAFT. HIGH STRENGTH (150,000 PSI) CHROME MOLY STEEL. IMPROVED SHAFT RETAINER WHICH LOCKS ONTO THE OIL PUMP DRIVE SHAFT MANUFACTURED W/ STEEL SHAFT GUIDE; ELIMINATES NYLON SHAFT GUIDE
	<i>Continued on Next Page</i>		

Line No.	Part Title	Part No	Description
<b>11</b>	<b>350 (5.7) ENG - V8 - 4.000 Bore</b> (MERCUISER 250, 255, 260, 260 5.7L, LX ALPHA, BRAVO, MAG BRAVO EFI, 270, 280, 300, 320 EFI, 260 MIE, 260/5.7 MIE, 5.7 SKI, 350 MAG SKI, MAG ALPHA) (Continued)		
	Intermediate Shaft	<b>IS-55G</b>	DOES NOT INCLUDE SHAFT GUIDE; USE W/M-55005 NYLON SHAFT GUIDE
	Camshafts Using Hydraulic Lifters	<b>22124</b>  <b>22125</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .267 INT./.273 EXH; VALVE LIFT .401 INT./.410 EXH. CHAIN DRIVE- STD. ROTATION. COMPUTER COMPATIBLE. CAM LIFT .267 INT. .273 EXH. CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .267 INT./.273 EXH; VALVE LIFT .401 INT./.410 EXH. GEAR DRIVE- REVERSE ROTATION. COMPUTER COMPATIBLE. CAM LIFT .267 INT. .273 EXH.
	Camshafts Using Hydraulic Roller Lifters	<b>22221</b>	CLASS I; FOR ENGINES ORIGINALLY EQUIPPED W/ROLLER CAM; REQUIRES COMPUTER MODIFICATION FOR F.I. APPLICATIONS; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; POWER RANGE IDLE-4500; CAM LIFT .289 INT./.300 EXH; VALVE LIFT .433 INT./.450 EXH. CHAIN DRIVE; STANDARD ROTATION; COMPUTER COMPATIBLE
	Hydraulic Lifters	<b>JB-817</b>	
	Intake Valve	<b>V1195</b> <b>V1195+15</b> <b>V1195+3</b>	Head Dia. 1.940 STANDARD SIZE VALVE Head Dia. 1.940 .015 O/S VALVE Head Dia 1.940 .003 O/S VALVE
	Exhaust Valve	<b>V1294</b>	Head Dia. 1.500
	Valve Spring with Hydraulic Lifters	<b>VS-380</b>  <b>VS-739</b> <b>VS-739R</b>	CHROME VANADIUM CHROME VANADIUM
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-401</b>	KIT INCLUDES (1) MR-842 ARM, (1) MRM-1731 BALL, (1) MRM-1786 NUT
	Rocker Arm Stud	<b>MRDS-921</b>	PRESS IN STUD; ADJUSTABLE W/ENGLISH THREADS; .003 O/S
	Chrome Moly Push Rods	<b>500314</b>	5/16 INCH DIAMETER; STANDARD LENGTH; HEAT TREATED FOR GUIDE PLATES; MAXIMUM SPRING PRESSURE 350 LBS USE W/HYD. FLAT CAM
	3pc Set	<b>40400</b>	BETTER; INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT, CENTER DISTANCE 4.521 INCHES FOR STD. DRIVE ROTATION
	Cam Gear	<b>2534</b>	58 TEETH FOR REVERSE DRIVE ROTATION
	Crank Gear	<b>2535</b>	29 TEETH FOR REVERSE DRIVE ROTATION
<b>12</b>	<b>351W (5.8) ENG - V8 - 4.000 Bore</b> (MERCUISER 233, 255)		
	Oil Pump	<b>M-83</b>  <b>M-83HV</b>	STANDARD VOLUME AND PRESSURE; DOES NOT INCLUDE OIL PUMP SCREEN HI VOL PUMP; 25% ADDL VOL OF OIL THAN STOCK PUMP; DOES NOT INCLUDE OIL PUMP SCREEN; CHECK FOR PAN AND CRANK CLEARANCE
	Screen Assy	<b>83-S</b>	
	Intermediate Shaft	<b>IS-83</b>	
	Camshafts Using Hydraulic Lifters	<b>24107</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; POWER RANGE IDLE-4400; CAM LIFT .260 INT./.278 EXH; VALVE LIFT .416 INT./.444 EXH. CHAIN DRIVE- STANDARD ROTATION- 351W FIRING ORDER. COMPUTER COMPATIBLE. CAM LIFT .260 INT. .278 EXH.
Continued on Next Page			



**MERCURY MARINE (Continued)**

Line No.	Part Title	Part No	Description
<b>12</b>	<b>351W (5.8) ENG - V8 - 4.000 Bore (MERCURISER 233, 255) (Continued)</b>		
	Camshafts Using Hydraulic Lifters	<b>24209</b>  <b>SYB-26</b>  <b>SYB-35</b>	CLASS II. NOT CALIFORNIA COMPLIANT. NOT COMPUTER COMPATIBLE. POWER RANGE 1300-4800; CAM LIFT .278 INT./ .283 EXH; VALVE LIFT .445 INT./ .453 EXH. FLAT CHAIN DRIVE- REVERSE ROTATION- 18456273 FIRING ORDER. CAM LIFT .278 INT. .283 EXH. CHAIN DRIVE; STD. ROTATION; 302 FIRING ORDER; COMPUTER COMPATIBLE; CLASS I; NOT CALIFORNIA COMPLIANT; POWER RANGE IDLE-4200; CAM LIFT .238 INT./ .247 EXH; VALVE LIFT .380 INT./ .396 EXH. CHAIN DRIVE- STD. ROTATION- 351W FIRING ORDER. CAM LIFT .278 INT. .283 EXH.
	Push Rods	<b>MPR-280</b>	STANDARD SIZE
	Hydraulic Lifters	<b>JB-900</b>	
	Intake Valve	<b>V1238</b> <b>V1328</b> <b>V1328+3</b>	Head Dia. 1.844 Head Dia. 1.782 Head Dia. 1.782 .003 OVERSIZE VALVE
	Exhaust Valve	<b>V1135</b> <b>V1135+15</b> <b>V1135+3</b> <b>V1237</b> <b>V1327</b> <b>V1453</b> <b>V1453+3</b>	Head Dia. 1.452 Head Dia. 1.452 .015 OVERSIZE VALVE Head Dia. 1.452 .003 OVERSIZE VALVE Head Dia. 1.543 Head Dia. 1.461 Head Dia. 1.462 Head Dia. 1.462 .003 OVERSIZE VALVE
	Valve Spring with Hydraulic Lifters	<b>VS-280</b>	
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-548</b>  <b>MRK-610</b>	1978-1991 KIT INCLUDES 1-MR-889 ARM, 1-MRM-1776 FULCRUM & 1-MRM-1741 BOLT W/STAMPED ROCKER ARMS 1969-1978 KIT INCLUDES 1-MR-886 ARM, 1-MRM-1772 BALL, 1-MRM-1786 3/8 INCH NUT & 1-MRM-1791 5/16 INCH NUT W/CAST ROCKER ARMS
	3pc Set	<b>40402</b>	FACTORY ONE PIECE FUEL PUMP ECCENTRIC, INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +4 DEGREE/-4 DEGREE CAM ADJUSTMENT. CENTER DISTANCE 4.804 INCHES
<b>13</b>	<b>427 (7.0) ENG - V8 - 4.25 Bore (MERCURISER 325)</b>		
	Oil Pump	<b>M-77</b> <b>M-77HV</b>	STANDARD VOLUME AND PRESSURE; 3/4 INCH SCREEN INLET HI VOL PUMP-25% ADDL VOL OF OIL THAN STOCK PUMP (MUST USE IS SHAFT W/STEEL GUIDE) 3/4 INCH SCREEN INLET. CHECK FOR PAN AND CRANK CLEARANCE
	Intermediate Shaft	<b>12770</b>  <b>IS-77</b>  <b>IS-77A</b>	PERFORMANCE TYPE INTERMEDIATE SHAFT. HIGH STRENGTH (150,000 PSI) CHROME MOLY STEEL. IMPROVED SHAFT RETAINER WHICH LOCKS ONTO THE OIL PUMP DRIVE SHAFT MANUFACTURED W/ STEEL SHAFT GUIDE; ELIMINATES NYLON SHAFT GUIDE DOES NOT INCLUDE SHAFT GUIDE; USE W/M-55005 NYLON SHAFT GUIDE
	Camshafts Using Hydraulic Lifters	<b>22216</b>	CLASS II; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .270 INT./ .282 EXH; VALVE LIFT .476 INT./ .496 EXH. CHAIN DRIVE- STD. ROTATION CAM LIFT .271 INT. .282 EXH.
	<i>Continued on Next Page</i>		

Line No.	Part Title	Part No	Description
<b>13</b>	<b>427 (7.0) ENG - V8 - 4.25 Bore (MERCURISER 325) (Continued)</b>		
	Camshafts Using Hydraulic Lifters	<b>22217</b>  <b>22218</b>  <b>22219</b>	CLASS II; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .270 INT./ .282 EXH; VALVE LIFT .460 INT./ .479 EXH. GEAR DRIVE- STD. ROTATION. CAM LIFT .272 INT. .283 EXH. CLASS II; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .270 INT./ .282 EXH; VALVE LIFT .460 INT./ .479 EXH. GEAR DRIVE- REVERSE ROTATION CAM LIFT .272 INT. .283 EXH. CLASS II; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .300 INT./ .300 EXH; VALVE LIFT .510 INT./ .510 EXH. CHAIN DRIVE- STD. ROTATION CAM LIFT .300 INT. .300 EXH.
	Hydraulic Lifters	<b>JB-817</b>	
	Intake Valve	<b>V0997</b> <b>V1107</b> <b>V1107+3</b> <b>V1136</b>	Head Dia. 1.840 Head Dia. 2.065 Head Dia. 2.065 .003 OVERSIZE VALVE Head Dia. 2.300
	Exhaust Valve	<b>V1261</b>	Head Dia. 1.720
	Valve Spring with Hydraulic Lifters	<b>466224</b>	ASM. HGT OF 1.88
	Valve Locks	<b>473004</b>	2 GROOVES 2 GROOVES
	Rocker Arm Kit	<b>MRK-405</b>	KIT INCLUDES 1-MR-867 ARM, 1-MRM-1797 BALL & 1-MRM-1793 NUT
	Chrome Moly Push Rods	<b>500154</b>  <b>500164</b> <b>500294</b>  <b>500304</b>	MAX. SPRING PRESSURE 350 LBS DIA. 3/8, LENGTH 8.280-HEAT TREATED FOR GUIDE PLATES MAX. SPRING PRESSURE 350 LBS 8.280 LENGTH, 7/16 INCH DIA. MAX. SPRING PRESSURE 350 LBS DIA. 7/16, LENGTH 8.230 9.252 LENGTH, 7/16 INCH. MAX. SPRING PRESSURE 350 LBS DIA. 7/16, LENGTH 9.200
	3pc Set	<b>40401</b>	INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT, CENTER DISTANCE 5.152 INCHES FOR STD. DRIVE ROTATION
<b>14</b>	<b>454 (7.4) ENG - V8 - 4 1/4 Bore (MERCURISER 330, 7.4-454 BRAVO, MAG ALPHA, MAG BRAVO, 370-400-420-425-440 TRS, 450-525 SC, 330 MIE, 340 MIE, 7.4 MIE W/HURTH, 7.4 EFI MIE, 454 EFI SKI, 350 MIE)</b>		
	Camshaft Lifter Kits Using Hydraulic Lifters	<b>CL-MC1316</b>	KIT INCLUDES 1-MC1316 HYD ROLLER CAM, 16-JB-7003 HYD ROLLER LIFTERS & 4OZ MELL LUBE
	Expansion Plug Kits	<b>MPE-275BR</b>  <b>MPE-275R</b>	BAGGED, BRASS KIT INCLUDES (6) MPC-41-B, (1) MPS-154, (5) MPP-554, (10) MPP-567, (3) MPP-638 BAGGED, STEEL KIT INCLUDES (6) MPC-41, (1) MPS-154, (5) MPP-554, (10) MPP-567, (3) MPP-638
	Oil Pump	<b>M-77</b> <b>M-77HV</b>	STANDARD VOLUME AND PRESSURE; 3/4 INCH SCREEN INLET HI VOL PUMP-25% ADDL VOL OF OIL THAN STOCK PUMP (MUST USE IS SHAFT W/STEEL GUIDE) 3/4 INCH SCREEN INLET. CHECK FOR PAN AND CRANK CLEARANCE
	Screen Assy	<b>241S</b> <b>305S</b>	FOR USE WITH 9 INCH OIL PANS SEE PHOTO SECTION IN THIS CATALOG FOR IDENTIFICATION. FOR USE WITH 8 INCH OIL PANS
	Intermediate Shaft	<b>12770</b>	PERFORMANCE TYPE INTERMEDIATE SHAFT. HIGH STRENGTH (150,000 PSI) CHROME MOLY STEEL. IMPROVED SHAFT RETAINER WHICH LOCKS ONTO THE OIL PUMP DRIVE SHAFT
	<i>Continued on Next Page</i>		

**MERCURY MARINE (Continued)**

Line No.	Part Title	Part No	Description
<b>14</b>	<b>454 (7.4) ENG - V8 - 4 1/4 Bore</b> (MERCURISER 330, 7.4-454 BRAVO, MAG ALPHA, MAG BRAVO, 370-400-420-425-440 TRS, 450-525 SC, 330 MIE, 340 MIE, 7.4 MIE W/HURTH, 7.4 EFI MIE, 454 EFI SKI, 350 MIE) (Continued)		
	Intermediate Shaft	<b>IS-77</b> <b>IS-77A</b>	MANUFACTURED W/ STEEL SHAFT GUIDE; ELIMINATES NYLON SHAFT GUIDE DOES NOT INCLUDE SHAFT GUIDE; USE W/M-55005 NYLON SHAFT GUIDE
	Camshafts Using Hydraulic Lifters	<b>22216</b>  <b>22217</b>  <b>22218</b>  <b>22219</b>	CLASS II; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .270 INT./.282 EXH; VALVE LIFT .476 INT./.496 EXH. CHAIN DRIVE- STD. ROTATION CAM LIFT .271 INT. .282 EXH. CLASS II; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .270 INT./.282 EXH; VALVE LIFT .460 INT./.479 EXH. GEAR DRIVE- STD. ROTATION CAM LIFT .272 INT. .283 EXH. CLASS II; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .270 INT./.282 EXH; VALVE LIFT .460 INT./.479 EXH. GEAR DRIVE- REVERSE ROTATION CAM LIFT .272 INT. .283 EXH. CLASS II; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .300 INT./.300 EXH; VALVE LIFT .510 INT./.510 EXH. CHAIN DRIVE- STD. ROTATION CAM LIFT .300 INT. .300 EXH.
	Camshafts Using Hydraulic Roller Lifters	<b>22223</b>  <b>MC1316</b>	CLASS II; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .284 INT./.284 EXH; VALVE LIFT .483 INT./.483 EXH. CHAIN DRIVE- STD. ROTATION. CAM LIFT .284 INT. .284 EXH. CHAIN DRIVE- STD. ROTATION. COMPUTER COMPATIBLE. CAM LIFT .282 INT .284 EXH.
	Hydraulic Lifters	<b>JB-817</b> <b>JB-969</b>	USE W/ADJUSTABLE VALVE TRAIN USE W/NON ADJUSTABLE VALVE TRAIN
	Hydraulic Roller Lifters	<b>JB-7003</b>	FOR USE WITH MC1316 CAM ONLY
	Intake Valve	<b>V0997</b> <b>V1107</b> <b>V1107+3</b> <b>V1136</b>	Head Dia. 1.840 Head Dia. 2.065 Head Dia. 2.065 .003 OVERSIZE VALVE Head Dia. 2.300
	Exhaust Valve	<b>V1261</b>	Head Dia. 1.720
	Valve Spring with Hydraulic Lifters	<b>466224</b>	ASM HGT OF 1.88
	Valve Locks	<b>473004</b>	2 GROOVES 2 GROOVES
	Rocker Arm Kit	<b>MRK-405</b>	KIT INCLUDES 1-MR-867 ARM, 1-MRM-1797 BALL & 1-MRM-1793 NUT USE W/ADJUSTABLE VALVE TRAIN
	Chrome Moly Push Rods	<b>500154</b>  <b>500164</b> <b>500294</b>  <b>500304</b>	MAX. SPRING PRESSURE 350 LBS INT. DIA. 3/8, LENGTH 8.280- HEAT TREATED FOR GUIDE PLATES MAX. SPRING PRESSURE 350 LBS 8.280 LENGTH, 7/16 INCH DIA. MAX. SPRING PRESSURE 350 LBS INT. DIA. 7/16, LENGTH 8.230 9.252 LENGTH, 7/16 INCH. MAX. SPRING PRESSURE 350 LBS DIA. 7/16, LENGTH 9.200
	3pc Set	<b>40401</b>	INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT, CENTER DISTANCE 5.152 INCHES FOR STD. DRIVE ROTATION EXCLUDES ROLLER CAM APPLICATIONS

Line No.	Part Title	Part No	Description
<b>15</b>	<b>482 (7.9) ENG - V8 - 4 1/4 Bore (MERCURISER 390, 460 TRS)</b>		
	Oil Pump	<b>M-77G</b> <b>M-77HV</b>	STANDARD VOLUME AND PRESSURE DOES NOT INCLUDE SCREEN HI VOL PUMP-25% ADDL VOL OF OIL THAN STOCK PUMP (MUST USE IS SHAFT W/STEEL GUIDE) 3/4 INCH SCREEN INLET. CHECK FOR PAN AND CRANK CLEARANCE
	Screen Assy	<b>305S</b>	FOR USE WITH 8 INCH OIL PANS
	Intermediate Shaft	<b>12770</b>  <b>IS-77</b>  <b>IS-77A</b>	PERFORMANCE TYPE INTERMEDIATE SHAFT. HIGH STRENGTH (150,000 PSI) CHROME MOLY STEEL. IMPROVED SHAFT RETAINER WHICH LOCKS ONTO THE OIL PUMP DRIVE SHAFT MANUFACTURED W/ STEEL SHAFT GUIDE; ELIMINATES NYLON SHAFT GUIDE DOES NOT INCLUDE SHAFT GUIDE; USE W/M-55005 NYLON SHAFT GUIDE
<b>16</b>	<b>495 (8.1) ENG - V8 - 4.25 Bore</b>		
	Oil Pump	<b>M307</b> <b>M307-353S</b>	STANDARD VOLUME AND PRESSURE DOES NOT INCLUDE SCREEN STANDARD VOLUME AND PRESSURE INCLUDES SCREEN; FOR 9 1/8 INCH TO 9 1/2 INCH PAN DEPTH
	Screen Assy	<b>353S</b>	FOR 9 1/8 INCH TO 9 1/2 INCH PAN DEPTH
<b>17</b>	<b>502 (8.2) ENG - V8 - 4.466 Bore (MERCURISER 465, 500, 502 MAG BRAVO, 502 EFI, 600 SC &amp; 8.2L MIE)</b>		
	Expansion Plug Kits	<b>MPE-275BR</b> <b>MPE-275R</b>	BAGGED, BRASS KIT INCLUDES (6) MPC-41-B, (1) MPS-154, (5) MPP-554, (10) MPP-567, (3) MPP-638 BAGGED, STEEL KIT INCLUDES (6) MPC-41, (1) MPS-154, (5) MPP-554, (10) MPP-567, (3) MPP-638
	Oil Pump	<b>M-77G</b> <b>M-77HV</b>	STANDARD VOLUME AND PRESSURE DOES NOT INCLUDE SCREEN HI VOL PUMP-25% ADDL VOL OF OIL THAN STOCK PUMP (MUST USE IS SHAFT W/STEEL GUIDE) 3/4 INCH SCREEN INLET. CHECK FOR PAN AND CRANK CLEARANCE
	Intermediate Shaft	<b>12770</b>  <b>IS-77</b>  <b>IS-77A</b>	PERFORMANCE TYPE INTERMEDIATE SHAFT. HIGH STRENGTH (150,000 PSI) CHROME MOLY STEEL. IMPROVED SHAFT RETAINER WHICH LOCKS ONTO THE OIL PUMP DRIVE SHAFT MANUFACTURED W/ STEEL SHAFT GUIDE; ELIMINATES NYLON SHAFT GUIDE DOES NOT INCLUDE SHAFT GUIDE; USE W/M-55005 NYLON SHAFT GUIDE
	Camshafts Using Hydraulic Lifters	<b>22219</b>	CLASS II; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .300 INT./ .300 EXH; VALVE LIFT .510 INT./ .510 EXH. CHAIN DRIVE- STD. ROTATION CAM LIFT .300 INT. .300 EXH.
	Camshafts Using Hydraulic Roller Lifters	<b>22223</b>	CLASS II; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .284 INT./ .284 EXH; VALVE LIFT .483 INT./ .483 EXH.
	Hydraulic Lifters	<b>JB-969</b>	FLAT TAPPETS
	3pc Set	<b>40401</b>	INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT, CENTER DISTANCE 5.152 INCHES

OMC

Engine	Year	Line	Engine	Year	Line	Engine	Year	Line
<b>4 Cyl.</b> 153 (2.5) 181 (3.0) <b>V6</b> 225 (3.7)		1 2 3	<b>6 Cyl.</b> 250 (4.1) <b>V8</b> 283 (4.6) <b>8 Cyl.</b> 300 (4.9)		4 5 6	<b>V8</b> 302 (5.0) 307 (5.0) 350 (5.7) 351W (5.8)		7 8 9 10

Line No.	Part Title	Part No	Description
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<b>1</b>	<b>153 (2.5) ENG - 4 Cyl. - 3 7/8 Bore (OMC 100, 110, 120)</b>		
	Oil Pump	<b>M-62</b> <b>M-62HV</b>	STANDARD VOLUME AND PRESSURE; DOES NOT INCLUDE OIL PUMP SCREEN HI VOL PUMP-20% ADDL VOL OF OIL THAN STOCK PUMP. CHECK FOR PAN AND CRANK CLEARANCE
	Camshafts Using Hydraulic Lifters	<b>22116</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .232 INT./ .232 EXH; VALVE LIFT .406 INT./ .406 EXH. (GEAR DRIVE; STD. ROTATION)
	Hydraulic Lifters	<b>JB-817</b>	
	Valve Spring with Hydraulic Lifters	<b>VS-380</b> <b>VS-739</b> <b>VS-739R</b>	CHROME VANADIUM CHROME VANADIUM
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-402</b>	KIT INCLUDES 1-MR-844 ARM, 1-MRM-1783 BALL & 1-MRM-1786 NUT
	Rocker Arm Stud	<b>MRDS-921</b>	PRESS IN STUD; ADJUSTABLE W/ENGLISH THREADS; .003 O/S
	Chrome Moly Push Rods	<b>500494</b>	MAX. SPRING PRESSURE 350 LBS
	Gear Set	<b>2528S</b>	ALUM. CAM GEAR & STEEL CRANK GEAR
<b>2</b>	<b>181 (3.0) ENG - 4 Cyl. - 4.000 Bore (OMC 140)</b>		
	Oil Pump	<b>M-62</b> <b>M-62HV</b>	STANDARD VOLUME AND PRESSURE; DOES NOT INCLUDE OIL PUMP SCREEN HI VOL PUMP-20% ADDL VOL OF OIL THAN STOCK PUMP. CHECK FOR PAN AND CRANK CLEARANCE
	Camshafts Using Hydraulic Lifters	<b>22117</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .253 INT./ .253 EXH; VALVE LIFT .441 INT./ .442 EXH. GEAR DRIVE- STD. ROTATION. COMPUTER COMPATIBLE.
	Hydraulic Lifters	<b>JB-817</b>	
	Intake Valve	<b>V1195</b> <b>V1195+15</b> <b>V1195+3</b>	Head Dia. 1.940 STANDARD SIZE VALVE Head Dia. 1.940 .015 O/S VALVE Head Dia 1.940 .003 O/S VALVE
	Exhaust Valve	<b>V0919</b>	Head Dia. 1.600
	Valve Spring with Hydraulic Lifters	<b>VS-380</b> <b>VS-739</b> <b>VS-739R</b>	CHROME VANADIUM CHROME VANADIUM
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-402</b>	KIT INCLUDES 1-MR-844 ARM, 1-MRM-1783 BALL & 1-MRM-1786 NUT
	Rocker Arm Stud	<b>MRDS-921</b>	PRESS IN STUD; ADJUSTABLE W/ENGLISH THREADS; .003 O/S
	Chrome Moly Push Rods	<b>500494</b>	MAX. SPRING PRESSURE 350 LBS
	Gear Set	<b>2528S</b>	ALUM. CAM GEAR & STEEL CRANK GEAR
<b>3</b>	<b>225 (3.7) ENG - V6 - 3.75 Bore (OMC 150, 155)</b>		
	Pump Kit <i>Continued on Next Page</i>	<b>K-20I</b>	REPAIR KIT FOR STANDARD VOLUME OIL PUMPS

Line No.	Part Title	Part No	Description
<b>3</b>	<b>225 (3.7) ENG - V6 - 3.75 Bore</b> (OMC 150, 155) (Continued)		
	Pump Kit	<b>K-20IHV</b>	HI VOL KIT. PROVIDES 29% GREATER VOLUME. THIS COMPLETE KIT INCLUDES LONGER GEARS, SPACER, GASKETS, SPRINGS AND INSTRUCTIONS. MAY REQUIRE REMOVING TIMING COVER FOR INSTALLATION. REQUIRES HAND TOOLS AND DRILL TO INSTALL. (DRILL BIT INCLUDED)
	Camshafts Using Hydraulic Lifters	<b>SBC-8</b>	STD. ROTATION- CHAIN DRIVE. CAM LIFT .251 INT. .244 EXH.
	Push Rods	<b>MPR-314</b>	1965-1966
	Hydraulic Lifters	<b>JB-896</b>	
	Exhaust Valve	<b>V0976</b>	1965-1966 Head Dia. 1.375
	Valve Springs	<b>VS-570</b>	1964
	3pc Set	<b>3-359S</b>	INCLUDES 359, S334 & S323
	Chain	<b>359</b>	54 LINKS
	Cam Sprocket	<b>S334</b>	40 TEETH
	Crank Sprocket	<b>S323</b>	20 TEETH
<b>4</b>	<b>250 (4.1) ENG - 6 Cyl. - 3.875 Bore</b> (OMC 165)		
	Oil Pump	<b>M-62</b> <b>M-62HV</b>	STANDARD VOLUME AND PRESSURE; DOES NOT INCLUDE OIL PUMP SCREEN HI VOL PUMP-20% ADDL VOL OF OIL THAN STOCK PUMP. CHECK FOR PAN AND CRANK CLEARANCE
	Screen Assy	<b>62-S3</b> <b>62-S6</b>	W/O RI SUFFIX W/RI SUFFIX
	Camshafts Using Hydraulic Lifters	<b>22118</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .230 INT./ .230 EXH; VALVE LIFT .403 INT./ .403 EXH. STD. ROTATION; COMPUTER COMPATIBLE; CAM LIFT .230 INT. .230 EXH.
	Hydraulic Lifters	<b>JB-817</b>	
	Valve Springs	<b>VS-390</b>	
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-402</b>	KIT INCLUDES 1-MR-844 ARM, 1-MRM-1783 BALL & 1-MRM-1786 NUT
	Rocker Arm Stud	<b>MRDS-921</b>	PRESS IN STUD; ADJUSTABLE W/ENGLISH THREADS; .003 O/S
	Chrome Moly Push Rods	<b>500494</b>	MAX. SPRING PRESSURE 350 LBS
	Gear Set	<b>2528S</b>	ALUM. CAM GEAR & STEEL CRANK GEAR
<b>5</b>	<b>283 (4.6) ENG - V8 - 3 7/8 Bore</b> (OMC 185)		
	Oil Pump	<b>M-55</b> <b>M-55HV</b>	STANDARD VOLUME AND PRESSURE; 5/8 INCH SCREEN INLET HI VOL PUMP; 25% ADDL VOL OF OIL THAN STOCK PUMP; MUST USE IS SHAFT W/STEEL GUIDE; 5/8 INCH SCREEN INLET; CHECK FOR PAN AND CRANK CLEARANCE
	Screen Assy	<b>55-S1</b>	
	Intermediate Shaft	<b>12550</b>  <b>IS-55E</b>  <b>IS-55G</b>	PERFORMANCE TYPE INTERMEDIATE SHAFT. HIGH STRENGTH (150,000 PSI) CHROME MOLY STEEL. IMPROVED SHAFT RETAINER WHICH LOCKS ONTO THE OIL PUMP DRIVE SHAFT MANUFACTURED W/ STEEL SHAFT GUIDE; ELIMINATES NYLON SHAFT GUIDE DOES NOT INCLUDE SHAFT GUIDE; USE W/M-55005 NYLON SHAFT GUIDE
	Camshafts Using Hydraulic Lifters	<b>22124</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .267 INT./ .273 EXH; VALVE LIFT .401 INT./ .410 EXH. CHAIN DRIVE- STD. ROTATION. COMPUTER COMPATIBLE. CAM LIFT .267 INT. .273 EXH.
	Continued on Next Page		

**OMC (Continued)**

Line No.	Part Title	Part No	Description
<b>5</b>	<b>283 (4.6) ENG - V8 - 3 7/8 Bore (OMC 185) (Continued)</b>		
	Camshafts Using Hydraulic Lifters	<b>22125</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .267 INT./ .273 EXH; VALVE LIFT .401 INT./ .410 EXH. GEAR DRIVE- REVERSE ROTATION. COMPUTER COMPATIBLE. CAM LIFT .267 INT. .273 EXH.
	Hydraulic Lifters	<b>JB-817</b>	
	Valve Spring with Hydraulic Lifters	<b>466354</b>	
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-401</b>	KIT INCLUDES (1) MR-842 ARM, (1) MRM-1731 BALL, (1) MRM-1786 NUT
	Rocker Arm Stud	<b>MRDS-921</b>	PRESS IN STUD; ADJUSTABLE W/ENGLISH THREADS; .003 O/S
	Chrome Moly Push Rods	<b>500314</b>	5/16 INCH DIAMETER; STANDARD LENGTH; HEAT TREATED FOR GUIDE PLATES; MAXIMUM SPRING PRESSURE 350 LBS HARDENED
	3pc Set	<b>40400</b>	BETTER; INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT, CENTER DISTANCE 4.521 INCHES FOR STD. DRIVE ROTATION
	Cam Gear	<b>2534</b>	58 TEETH FOR REVERSE DRIVE ROTATION
	Crank Gear	<b>2535</b>	29 TEETH FOR REVERSE DRIVE ROTATION
<b>6</b>	<b>300 (4.9) ENG - 8 Cyl. - 3 3/4 Bore (OMC 170, 200)</b>		
	Pump Kit	<b>K-20I K-20IHV</b>	REPAIR KIT FOR STANDARD VOLUME OIL PUMPS HI VOL KIT. PROVIDES 29% GREATER VOLUME. THIS COMPLETE KIT INCLUDES LONGER GEARS, SPACER, GASKETS, SPRINGS AND INSTRUCTIONS. MAY REQUIRE REMOVING TIMING COVER FOR INSTALLATION. REQUIRES HAND TOOLS AND DRILL TO INSTALL. (DRILL BIT INCLUDED)
	Push Rods	<b>MPR-314</b>	1965-1967
	Hydraulic Lifters	<b>JB-896</b>	
	Exhaust Valve	<b>V0976</b>	1965-1967 Head Dia. 1.375
	Valve Springs	<b>VS-570</b>	
	3pc Set	<b>3-359S</b>	INCLUDES 359, S334 & S323
	Chain	<b>359</b>	54 LINKS
	Cam Sprocket	<b>S334</b>	40 TEETH
	Crank Sprocket	<b>S323</b>	20 TEETH
<b>7</b>	<b>302 (5.0) ENG - V8 - 4.000 Bore (OMC 170, 175, 190)</b>		
	Oil Pump	<b>M-68A M-68HV</b>	HI PRESSURE OIL PUMP HI VOL PUMP; 25% ADDL VOL OF OIL; CHECK FOR PAN AND CRANK CLEARANCE; MAY REQUIRE OIL PAN MODIFICATION MAY REQUIRE OIL PAN MODIFICATION
	Intermediate Shaft	<b>IS-68</b>	
	Camshafts Using Hydraulic Lifters	<b>SYB-24 SYB-25</b>	FLAT LIFTER- STD. ROTATION- 190 ENG. COMPUTER COMPATIBLE. CAM LIFT .260 INT. .260 EXH. FLAT LIFTER- STD. ROTATION- 170 & 175 ENG. COMPUTER COMPATIBLE. CAM LIFT .230 INT. .238 EXH.
	Hydraulic Lifters	<b>JB-900</b>	
	Intake Valve	<b>V1137 V1137+3</b>	Head Dia. 1.781 170, 175 Head Dia. 1.781 .003 OVERSIZE VALVE (170, 175)
	Exhaust Valve	<b>V1135 V1135+15 V1135+3</b>	Head Dia. 1.452 170, 175 Head Dia. 1.452 .015 OVERSIZE VALVE (170, 175) Head Dia. 1.452 .003 OVERSIZE VALVE (170, 175)
	<i>Continued on Next Page</i>		

Line No.	Part Title	Part No	Description
<b>7</b>	<b>302 (5.0) ENG - V8 - 4.000 Bore</b> (OMC 170, 175, 190) (Continued)		
	Valve Spring with Hydraulic Lifters	<b>VS-280</b>	
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-610</b>	KIT INCLUDES 1-MR-886 ARM, 1-MRM-1772 BALL, 1-MRM-1786 3/8 INCH NUT & 1-MRM-1791 5/16 INCH NUT
	Chrome Moly Push Rods	<b>500404</b>	MAX. SPRING PRESSURE 350 LBS
	3pc Set	<b>40402</b>	FACTORY ONE PIECE FUEL PUMP ECCENTRIC, INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +4 DEGREE/-4 DEGREE CAM ADJUSTMENT. CENTER DISTANCE 4.804 INCHES
<b>8</b>	<b>307 (5.0) ENG - V8 - 3 7/8 Bore</b> (OMC 210, 215, 225, 230, 235, 245)		
	Oil Pump	<b>M-55</b> <b>M-55HV</b>	STANDARD VOLUME AND PRESSURE; 5/8 INCH SCREEN INLET HI VOL PUMP; 25% ADDL VOL OF OIL THAN STOCK PUMP; MUST USE IS SHAFT W/STEEL GUIDE; 5/8 INCH SCREEN INLET; CHECK FOR PAN AND CRANK CLEARANCE
	Intermediate Shaft	<b>12550</b>  <b>IS-55E</b>  <b>IS-55G</b>	PERFORMANCE TYPE INTERMEDIATE SHAFT. HIGH STRENGTH (150,000 PSI) CHROME MOLY STEEL. IMPROVED SHAFT RETAINER WHICH LOCKS ONTO THE OIL PUMP DRIVE SHAFT MANUFACTURED W/ STEEL SHAFT GUIDE; ELIMINATES NYLON SHAFT GUIDE DOES NOT INCLUDE SHAFT GUIDE; USE W/M-55005 NYLON SHAFT GUIDE
	Camshafts Using Hydraulic Lifters	<b>22124</b>    <b>22125</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .267 INT./.273 EXH; VALVE LIFT .401 INT./.410 EXH. CHAIN DRIVE- STD. ROTATION. COMPUTER COMPATIBLE. CAM LIFT .267 INT. .273 EXH. CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .267 INT./.273 EXH; VALVE LIFT .401 INT./.410 EXH. GEAR DRIVE- REVERSE ROTATION. COMPUTER COMPATIBLE. CAM LIFT .267 INT. .273 EXH.
	Hydraulic Lifters	<b>JB-817</b>	
	Intake Valve	<b>V1195</b> <b>V1195+15</b> <b>V1195+3</b>	Head Dia. 1.940 STANDARD SIZE VALVE Head Dia. 1.940 .015 O/S VALVE Head Dia 1.940 .003 O/S VALVE
	Valve Spring with Hydraulic Lifters	<b>VS-380</b>  <b>VS-739</b> <b>VS-739R</b>	CHROME VANADIUM CHROME VANADIUM
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-401</b>	KIT INCLUDES (1) MR-842 ARM, (1) MRM-1731 BALL, (1) MRM-1786 NUT
	Rocker Arm Stud	<b>MRDS-921</b>	PRESS IN STUD; ADJUSTABLE W/ENGLISH THREADS; .003 O/S
	Chrome Moly Push Rods	<b>500314</b>	5/16 INCH DIAMETER; STANDARD LENGTH; HEAT TREATED FOR GUIDE PLATES; MAXIMUM SPRING PRESSURE 350 LBS
	3pc Set	<b>40400</b>	BETTER; INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT, CENTER DISTANCE 4.521 INCHES STD.ROTATION
	Cam Gear	<b>2534</b>	58 TEETH FOR REVERSE DRIVE ROTATION
	Crank Gear	<b>2535</b>	29 TEETH FOR REVERSE DRIVE ROTATION



**OMC (Continued)**

Line No.	Part Title	Part No	Description
<b>9</b>	<b>350 (5.7) ENG - V8 - 4.000 Bore (OMC 250, 260, 290)</b>		
	Oil Pump	<b>M-55</b> <b>M-55HV</b>	STANDARD VOLUME AND PRESSURE; 5/8 INCH SCREEN INLET HI VOL PUMP; 25% ADDL VOL OF OIL THAN STOCK PUMP; MUST USE IS SHAFT W/STEEL GUIDE; 5/8 INCH SCREEN INLET; CHECK FOR PAN AND CRANK CLEARANCE
	Intermediate Shaft	<b>12550</b>  <b>IS-55E</b>  <b>IS-55G</b>	PERFORMANCE TYPE INTERMEDIATE SHAFT. HIGH STRENGTH (150,000 PSI) CHROME MOLY STEEL. IMPROVED SHAFT RETAINER WHICH LOCKS ONTO THE OIL PUMP DRIVE SHAFT MANUFACTURED W/ STEEL SHAFT GUIDE; ELIMINATES NYLON SHAFT GUIDE DOES NOT INCLUDE SHAFT GUIDE; USE W/M-55005 NYLON SHAFT GUIDE
	Camshafts Using Hydraulic Lifters	<b>22124</b>    <b>22125</b>	CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .267 INT./.273 EXH; VALVE LIFT .401 INT./.410 EXH. CHAIN DRIVE- STD. ROTATION. COMPUTER COMPATIBLE. CAM LIFT .267 INT. .273 EXH. CLASS I; NOT CALIFORNIA COMPLIANT; NOT COMPUTER COMPATIBLE; CAM LIFT .267 INT./.273 EXH; VALVE LIFT .401 INT./.410 EXH. GEAR DRIVE- REVERSE ROTATION. COMPUTER COMPATIBLE. CAM LIFT .267 INT. .273 EXH.
	Hydraulic Lifters	<b>JB-817</b>	
	Intake Valve	<b>V1195</b> <b>V1195+15</b> <b>V1195+3</b>	Head Dia. 1.940 STANDARD SIZE VALVE Head Dia. 1.940 .015 O/S VALVE Head Dia 1.940 .003 O/S VALVE
	Exhaust Valve	<b>V1294</b>	Head Dia. 1.500
	Valve Spring with Hydraulic Lifters	<b>VS-380</b>  <b>VS-739</b> <b>VS-739R</b>	CHROME VANADIUM CHROME VANADIUM
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-401</b>	KIT INCLUDES (1) MR-842 ARM, (1) MRM-1731 BALL, (1) MRM-1786 NUT
	Rocker Arm Stud	<b>MRDS-921</b>	PRESS IN STUD; ADJUSTABLE W/ENGLISH THREADS; .003 O/S
	Chrome Moly Push Rods	<b>500314</b>	5/16 INCH DIAMETER; STANDARD LENGTH; HEAT TREATED FOR GUIDE PLATES; MAXIMUM SPRING PRESSURE 350 LBS NON ROLLER CAMS ONLY
	3pc Set	<b>40400</b>	BETTER; INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +2 DEGREE/-2 DEGREE CAM ADJUSTMENT, CENTER DISTANCE 4.521 INCHES STD. ROTATION
	Cam Gear	<b>2534</b>	58 TEETH FOR REVERSE DRIVE ROTATION
	Crank Gear	<b>2535</b>	29 TEETH FOR REVERSE DRIVE ROTATION
<b>10</b>	<b>351W (5.8) ENG - V8 - 4.000 Bore (OMC 235, 240)</b>		
	Oil Pump	<b>M-83</b>  <b>M-83HV</b>	STANDARD VOLUME AND PRESSURE; DOES NOT INCLUDE OIL PUMP SCREEN HI VOL PUMP; 25% ADDL VOL OF OIL THAN STOCK PUMP; DOES NOT INCLUDE OIL PUMP SCREEN; CHECK FOR PAN AND CRANK CLEARANCE
	Intermediate Shaft	<b>IS-83</b>	
	Camshafts Using Hydraulic Lifters	<b>SYB-24</b>	FLAT LIFTER- STD. ROTATION. COMPUTER COMPATIBLE. CAM LIFT .260 INT. .260 EXH.
	Push Rods	<b>MPR-280</b>	STANDARD SIZE
	Hydraulic Lifters	<b>JB-900</b>	
	Intake Valve	<b>V1238</b>	Head Dia. 1.844
	<i>Continued on Next Page</i>		

Line No.	Part Title	Part No	Description
<b>10</b>	<b>351W (5.8) ENG - V8 - 4.000 Bore</b> (OMC 235, 240) (Continued)		
	Exhaust Valve	<b>V1237</b> <b>V1327</b>	Head Dia. 1.543 Head Dia. 1.461
	Valve Spring with Hydraulic Lifters	<b>VS-280</b>	
	Valve Locks	<b>476104</b>	
	Rocker Arm Kit	<b>MRK-610</b>	KIT INCLUDES 1-MR-886 ARM, 1-MRM-1772 BALL, 1-MRM-1786 3/8 INCH NUT & 1-MRM-1791 5/16 INCH NUT
	3pc Set	<b>40402</b>	FACTORY ONE PIECE FUEL PUMP ECCENTRIC, INCLUDES .250 INCH SEAMLESS DOUBLE ROLLER CHAIN, CAST IRON CAM SPROCKET, 3 KEYWAY STEEL CRANK SPROCKET WITH +4 DEGREE/-4 DEGREE CAM ADJUSTMENT. CENTER DISTANCE 4.804 INCHES