GM POWERTRAIN
INDUSTRIAL ENGINES by KEM

INDUSTRIAL GAS ENGINE OPERATORS MANUAL

MODEL - GMG-643

KEM Equipment, Inc.
10800 S.W. Herman Road • P.O. Box 546 • Tualatin, OR 97062
Phone: 503-692-5012 • Fax: 503-692-1098

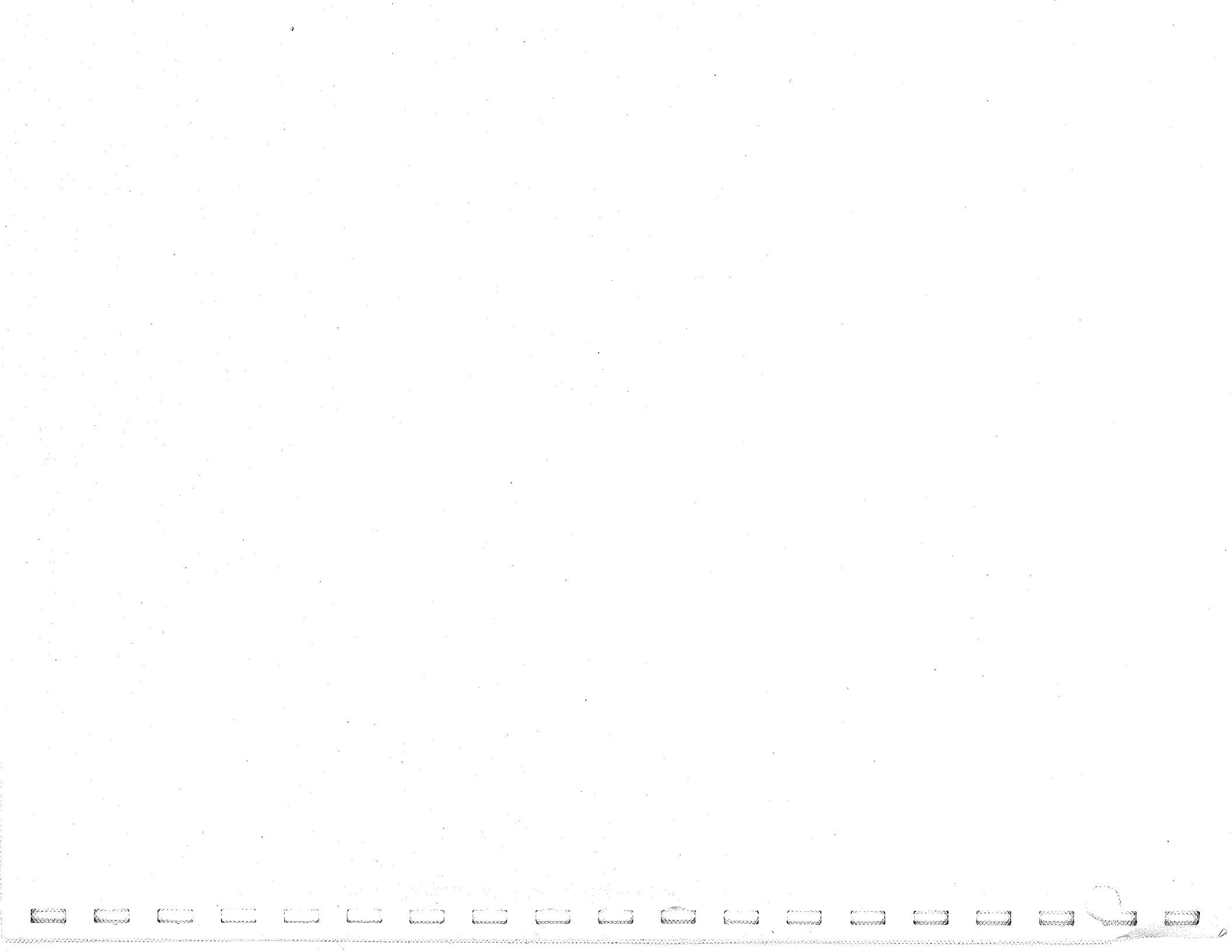


Table of Contents

Forward

1.0 Operation
- 1.1 Engine Model and Engine Serial No.
- 1.2 Fuel, Coolant and Lubricant
- 1.3 Instrumentation

2.0 Inspection and Maintenance
- 2.1 Maintenance Schedule
- 2.2 Intake and Exhaust Systems
- 2.3 Air Cleaner
- 2.4 Engine Oil Pan
- 2.5 Oil Filter
- 2.6 Fuel Filter
- 2.7 Coolant

3.0 Accessory Parts

4.0 GM Engine Parts

5.0 Governors
- 5.1 Velocity
- 5.2 Electronic (GAC)

6.0 Troubleshooting

FORWARD

The necessary safety precautions and regulations have been observed in the design, choice of materials and manufacture of your Industrial Power Unit package. It has been run-in, tested and adjusted at the factory.

However, maximum engine performance and longevity is not possible without regard to maintenance. Therefore, this manual is presented, and should be used as a guide in setting forth a maintenance program and schedule.

In the interest of safety be sure to refit any guards and protective devices that may have been removed during work on the engine.

To prevent pollution to the environment, please retain and properly dispose of old fuel and oil.

1.1 ENGINE MODEL AND SERIAL NUMBER

General Description:

KEM EQ. INC.

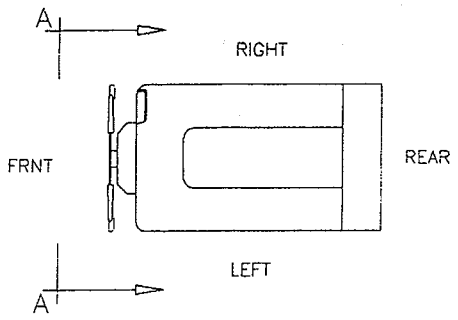
TUALATIN OREGON

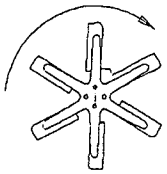
MODEL	
S/N	
HDC	

Identification placard is located on the right side of the engine, under the starter.

General Description:

The terms "front and rear", "right and left" as well as fan rotation are shown below.





Description and use of hot date code (to give instruction on finding GM parts in the parts list from GM).

Hot Date Code is stamped on serial plate. ***Example: V0109AH***

the underlined section will be your code. Number 9 indicates the model year of your engine. Letters indicate GM engine code. Using the numbers and letters in the hot date code, go to the back of the section (top end or bottom end) and you will find a list of notes, i.e. 1, note 2 . . . Within these notes you will find the number and letters that match your hot date code. Once you find your corresponding code, to the left of it you will find a note #. You will need this note # to find the correct part for your engine.

Example: Note #22

Gasket, head	(1,2,5,9,12,17)	12448061
Gasket, head	(1,5,12,20,22,28)	12346681

The gasket with the corresponding note # would be correct, and to the right of it would be the correct replacement part.

1.2 FUEL, COOLANT AND LUBRICANT

Periodical replenishment and replacement of oil and coolant are the key to the best maintenance, trouble-free performance, and increase of service life of the engine.

GENERAL LUBRICATION INSTRUCTIONS

1. Lubricate every necessary part as specified in "Periodic Check and Service Chart".
2. Always apply the oil of optimum viscosity to ambient temperature. In cold weather, use of too high viscosity oil can be often a cause of difficult engine starting.
3. Prior to the lubrication, be sure to clean oiler, grease gun, oil fillers, grease nipples, etc. If grease nipples or other oil filler parts are broken or bent, replace them at once with new ones.
4. If excessive leaks are noticed from oil seals or packings, etc., replace the seals or packings at once to stop leaks.

Always use clean fuel and pay attention to the following when handling the fuel.

- After the end of the day's work, fill the fuel tank with fuel to its capacity. This is to expel air from the tank as otherwise the moisture in the air might condense into water drops which contaminate the fuel. Also, this gives enough time for dust and water to be separated and settled before operation on the next day.
- Store the fuel in a storage tank for at least 24 hours to allow rust and water to precipitate before use.
- When filling the fuel tank from a drum, take care not to allow deposits on the bottom of the drum to be carried over into the tank.
- Open the drain plug at the bottom of the storage and fuel tanks occasionally to drain off deposits and water.

COOLANT

Use soft water with a low impurity content as the coolant. Use of water containing salt, or water in the vicinity of a mine or spa could accelerate deposit of scale in the water jacket and corrosion of the external surface of the cylinder liner.

Use anti-corrosive in hot weather to prevent corrosion and use anti-freeze in cold weather to prevent freezing of the coolant.

NOTE: If the coolant in the cooling system contains anti-freeze or anti-corrosive, add a solution of the same concentration as the solution initially put into the system.

Cautions on use and handling of anti-freeze

- Use a permanent type anti-freeze.

- When anti-freeze is to be applied or when the coolant with anti-freeze is to be replaced by coolant without anti-freeze to comply with the rise in the atmospheric temperature, wash and clean the cooling system.

The anti-freeze/water mixing ratio depends on the lowest temperature expected.

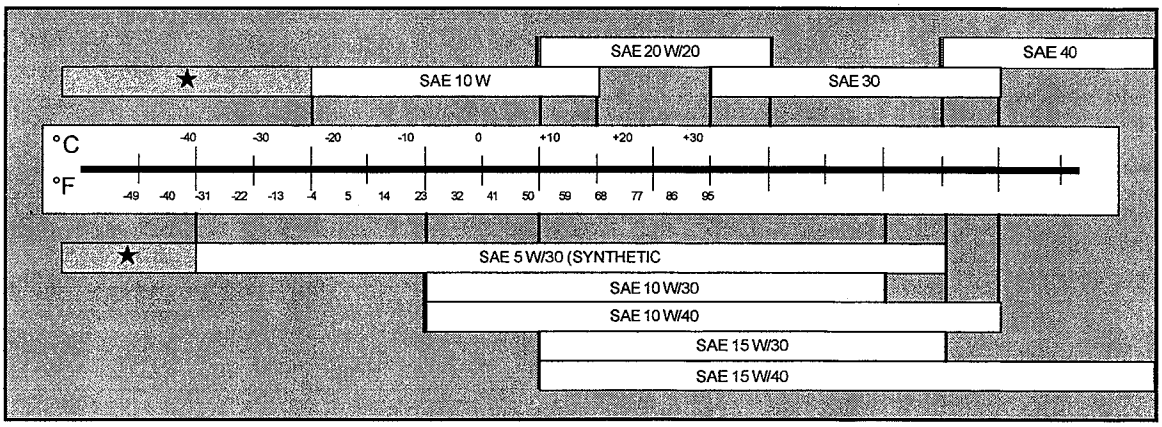
LUBRICANT

Engines which are often operated in more severe conditions require the use of higher quality engine oil. Use the oil and grease conforming to the specifications shown below.

Oil and Grease		Specifications	
	Under normal operating conditions	API CC or higher	40°C or above SAE 40
Engine Oil	Under severe operating conditions or for engine w/turbocharger.	API CD or higher	40 to -5°C SAE 30 10 to -30°C SAE 10W-30
Gear Oil		API GL-3	SAE 80 SAE 90
Brake fluid		SAE J1703	
Multipurpose type grease		NGLI No. 2	
Clutch shifter grease		MIL-G-3545B	

Oil Viscosity

The viscosity of the oil being greatly influenced by the ambient temperature, the choice of the SAE-grade should be governed by the ambient temperature at engine site (see diagram). If temperatures temporarily fall below the limit of the SAE-grade selected, this will merely affect the starting performance, but cause no engine damage.



★ Only with engine oil preheating.

Since a too viscous oil causes starting difficulties, the choice of the viscosity grade during winter operation should be governed by the ambient temperature prevailing at the time of starting the engine. Oil changes as a function of ambient temperatures can be avoided by using multigrade oils, which are again subject to the oil change intervals recommended.

Checking Oil Level

The oil level may be checked by two methods:

1. **Dipstick**
   Pull out dipstick, wipe clean and reinsert as far as it will go, then withdraw. The oil level should be between the marks indicated on the dipstick. If the level is only up to or even below the lower mark, top with oil immediately, preferably up to the upper marking on dipstick.

2. **Sight gauge (see figure)**
   The oil level in the sight gauge will be approximately 1 1/2 inches down from the top of the glass when the engine oil level is maximum. Verify by checking the dipstick.

GMPT INDUSTRIAL ENGINE INFORMATION

Engine oil requirements:
Type
API-"SH"
Weight - SAE 30 for above 40° F
SAE 15W40 for above 0° F
SAE 10W30 for all temperatures

Oil Changes:
Change oil and filter ever 125 hours or 3 months, whichever comes first.

(NOTE: OEM air cleaners, PCV systems, or engine operating temperatures may vary the oil change interval.)

Oil Temperatures:
Upper limit if 266° F
Ideal running temperature is 221° F
Lower limit is 176° F

Lubrication System: (Maximum allowable degree angles of engine)
8..5 degrees with the front of the engine down
18 degrees with the rear of the engine down
20 degrees side to side

1.3 INSTRUMENTATION

Oil Pressure (20 to 50 PSI)

The oil pressure will vary according to temperature and the viscosity of the oil. If the oil is relatively light, on a warm day the gauge will register on the low end of the scale or approximately 20 PSI. Conversely, if the oil is heavy, on a cold day, gauge readings of 50 PSI would be expected.

Coolant Temperature (160-195°F)

The coolant temperature is regulated by a thermostat.

Volt Meter (12 - 15 volts)

Primarily the voltmeter is provided to indicate the condition of the battery. If the gauge registers in the red above 15 volts, shut the engine down and investigate. The engine will not automatically shut down in the unlikely event of over-voltage.

Should the voltage drop below approximately 8 volts, there will not be enough power to run the electrical system and the engine will quit running.

If the gauge registers in the red below 12 volts, check the condition of the battery.

2.0 INSPECTION AND MAINTENANCE

To prolong the life of the engine and maintain top operating conditions at all times, it is important that the engine is checked and serviced at regular intervals.

Periodic Inspection and Maintenance

1. The simple inspection and maintenance procedures are summarized below. An emergency engine should also be inspected and maintained according to the maintenance standard table described in the chart below.

2. Determine the inspection and maintenance intervals by checking the service meter readings. When the engine is operated under poor or severe conditions, perform inspection and maintenance earlier.

See following pages for maintenance schedules.

2.1 MAINTENANCE SCHEDULE

	CHECK AND SERVICE ITEM		SERVICE INTERVALS						REMARKS
			EVERY 10 HRS.	EVERY 60 HRS.	EVERY 125 HRS.	EVERY 250 HRS.	EVERY 500 HRS.	EVERY 1000 HRS.	
ENGINE GENERAL	Starting condition & noise			O					
	Low speed & acceleration (rated condition)			O					Check for hunting
	Exhaust condition			O					
	Cylinder head, manifold & mounting bracket installation			O*				O	*Applicaple to new engines only
	Compression pressure							O	
	Valve clearance			O*					*New engines only
	Air cleaner element (cyclone type)	Condition				O			
		Replace						●	
	Air cleaner element (flat type)	Condition				O			
		Replace					●		
	Check turbocharger bearing for rotating conditions. Check oil feed pipe joints							O	
LUBRICATION	Oil leaks			O					
	Damaged hose							O	
	Engine oil pan	Check oil for contamination & quantity	O						
		Replace Oil			●	●	●		*On new engine, be sure to replace engine oil.
	Oil filter element	Replace Oil			●	●	●		
FUEL SYS	Leaks-check hose for damage & deterioration			O					
	Fuel filter	Clogging				O			
COOLING SYSTEM	Water leaks-Check hose for damage/deterioration		O						
	Replace coolant & clean system						O		Clean system before & after use of antifreeze.
	Loose or damaged V-belt		O						
	Damaged fan, mounting condition of fan						O		
	Radiator	Water quality	O						
		Cap function				O			
		Clogged and/or damaged core					O		
	Lubrication of water pump and idler pulley				O				
ELECTRICAL	Battery	Electrolyte quantity			O				Every 2 weeks-every week in summer.
		Specific gravity of electrolyte				O			
		Connected condition of terminals				O			
	Loose electrical wiring connections and loose or damaged insulators				O				
MISC.	Check emergency stop equipment for operation				O				
	Lubrication of clutch shifter and fork shaft							O	Use clutch shifter grease.
	Lubrication of bearings case (for direct drive type)							O	Use clutch shifter grease.
	Check meters, gauges and pilot lamps					O			

SYMBOLS=O-Check, adjust or lubricate. / ●-Replace oil, grease or element.

2.2 INTAKE AND EXHAUST SYSTEM

Checking Engine Exhaust Emissions
After the engine has fully warmed up, check the color of exhaust gas.

Colorless or faint blue	Good
Black	Bad, showing incomplete combustion
White	Bad, showing combustion of oil forced up.

Please note: Exhaust gas which is really colorless or faint blue will look white due to winter weather.

2.3 AIR CLEANER

A dirty air cleaner element, if left as it is will decrease engine output. It will also cause increased fuel consumption, increase in harmful contents of exhaust emissions as well as black smoke.

Cyclone Type Air Cleaner

1. **Remove the dust cup and withdraw the element.** On a double element type cleaner, be sure not to remove the inner element when the outer element is cleaned. The inner element should be removed only when the outer element is replaced. Make sure that both elements are replaced at the same time.
2. **Prior to installation, clean the inside of the case and dust cup,** and slowly insert the element. If the air cleaner is placed in a horizontal position, install the dust cup so that the assembling direction indicating mark of the cup with face upward.

NOTE: Make sure that the element and dust cup are securely installed. If left loose, dust will be drawn in and the air cleaner will fail to function properly.

2.4 ENGINE OIL

Replace engine oil - after the first 60 hours and every 250 hours thereafter.

On a new engine, be sure to replace the oil after the first 60 hours of operation.

1. After shutdown, remove the oil while it is still hot. At the same time, the oil filter should be replaced.
2. Install the drain plug and pour in fresh engine oil from the oil filter port up to the FULL mark on the level gauge.
3. After running the engine at idle for several minutes recheck the oil level.

NOTE: A badly contaminated or deteriorated oil should be replaced regardless of the replacement intervals. **Replace the oil filter element each time that the oil is replaced.**

2.5 OIL FILTER

Replace element - Every 125 hours

NOTE: The element cannot be washed and reused.

1. Remove the element by turning counterclockwise. If the element is hard to loosen, use a special tool (filter wrench) for easier removal.
2. Prior to installation of a new element, apply a thin coat of engine oil to the packing of the element and tighten the element fully with a special tool (filter wrench).
3. If the element only has been replaced without replacing the engine oil, replenish approximately 1.2 liters of engine oil and check the oil level.
4. After installation, thoroughly wipe away spilt oil, start the engine, and check for oil leaks from the packing.

2.6 FUEL FILTER

The fuel filter separates and removes foreign substances and precipitated water contained in fuel. Over a long period of service, however, the filter will be clogged with foreign substances. So the filter should be replaced at regular intervals.

Replace element - Every 500 hours.

1. Remove the element, while using care not to spill fuel.
2. **The element cannot be washed and reused.**
3. After installation, bleed the fuel system and check for fuel leaks.

NOTE: Wipe away spilt fuel as it could start a fire.

2.7 COOLANT

Replace coolant and clean system - Every 500 hours.

Scale and rust are formed in the radiator and engine water jacket in the course of time. It is important to clean the radiator and water jacket to remove deposits of scale and rust as they cause reduction of the cooling efficiency. Also make sure that the system is cleaned if the coolant contains anti-rust or anti-freeze.

When cleaning the system, heat the coolant to 80°C or higher and keep the engine idling. If the water temperature is lower, the thermostat is closed to shut off flow of the coolant to the radiator, making it impossible to clean the system thoroughly.

1. Open the radiator cap and open the drain cocks of the engine crankcase and radiator to remove the coolant.
2. Close the drain cocks and pour coolant into radiator. Run the engine until the coolant is heated to about 80°C.
3. If there is considerable scale or rust, pour in a cleaning solution and run the engine until the solution is heated to about 80°C.

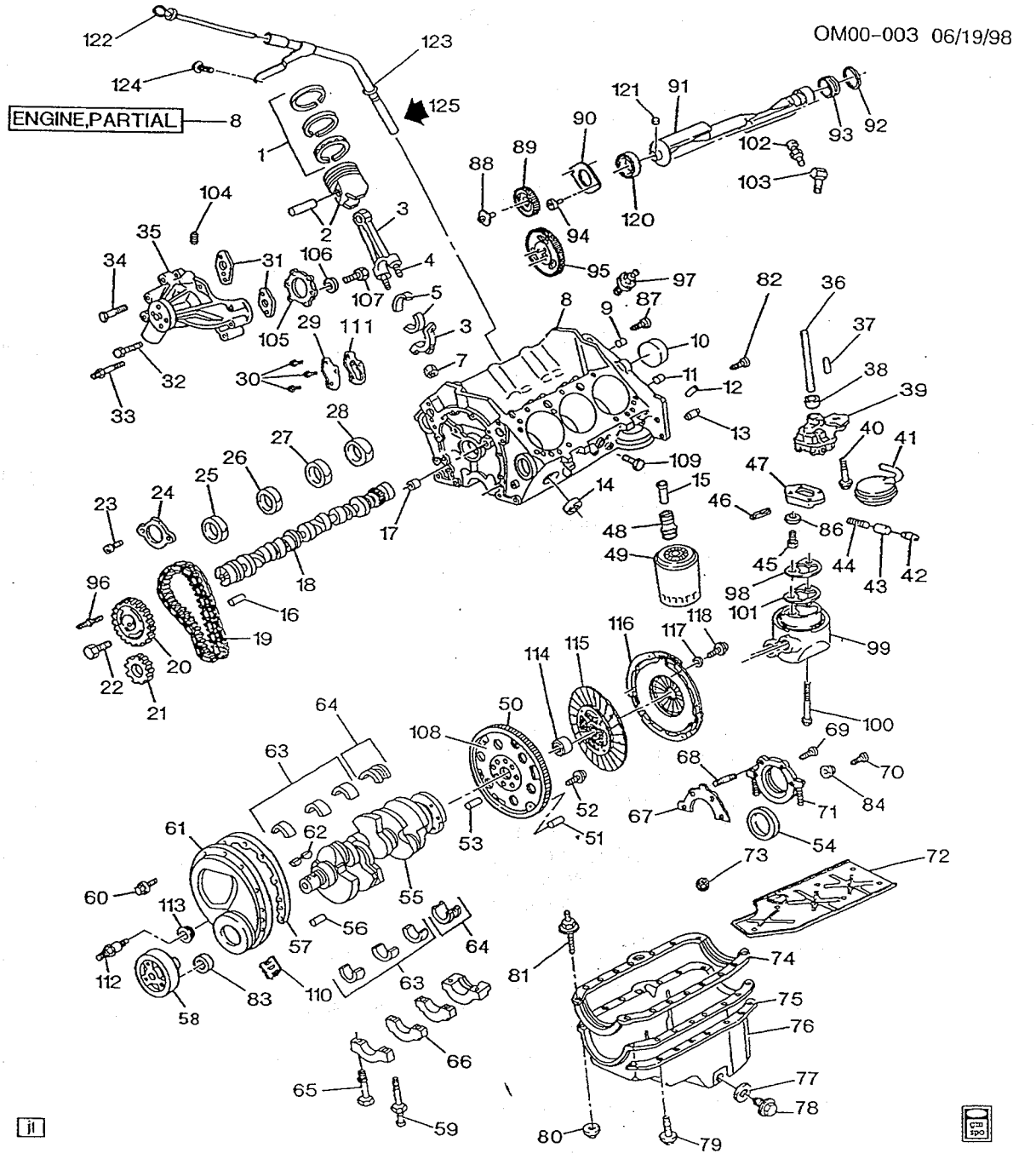
Coolant Cont.

4. Continue to idle the engine for about 30 minutes.
5. After stopping the engine, open the drain cocks of the engine crankcase and radiator to drain off the coolant completely.
6. Close the drain cocks and pour in coolant to rinse the system thoroughly. Rinse until dirty water no longer runs out.
7. Use soft water and fill until it flows out from the overflow pipe.
   NOTE: Use soft water. Use of well water or river water may cause scaling or rusting. Add anti-corrosive to water in hot season to prevent corrosion and add anti-freeze in cold season to prevent freezing of the coolant.
8. After filling the coolant, run the engine for awhile. After stopping the engine, check the coolant level and replenish, if necessary. This rechecking of the coolant level is necessary because the coolant level will fall after initial operation as a result of expelling air from the system.

3.0 ACCESSORY PARTS GMG-643

PART NUMBER	DESCRIPTION	QUANTITY
K032049	ALTERNATOR, 12V 51 amp MANDO	1
KM2169	CAUTION-12V SYSTEM DECAL	1
443830	ALTERNATOR GROUNDING WIRE	1
10236997	ALT. & BELT TENSION BRKT	1
12554522	ATLERNATOR BRACKET	1
12557819	FLT (NO GROOVE) PULLEY	1
12550053	WATER PUMP PULLEY	1
10239670	IDLER TENSIONER	1
11516285	BOLT 10MX95MX1.5	4
11508540	BELT TENSIONER BOLT	2
14103118	PULLEY	1
SP07-100-094	SPACER, 7/16"X1'X15/16"	1
12338064	STARTER BOLTS	8
9000821	DELCO LOW MNT STARTER	1
12553060	MANIFOLD 4.3 INDUSTRIAL	2
ST41	EXHAUST STUD 3/8 X 3	6
MS15251	GASKET EXHAUST 4.3 IND.	1
10105861	SHEILD SPARK PLUG	2
12551505	SHEILD SPARK PLUG	2
6408-08	PLUG, BRASS #8 O'RING TYPE	2
KM2172-43	EXHAUST SYSTEM, 4.3 LTR. IND.	1
PP7032	RADIATOR SUPPORT BRKT	1
PP7036	FRONT SUPPORT BRKT.	1
KM2175	RADIATOR BRACE 454 ONLY	1
KM1012	SAE #3 BELLHOUSING	1
KM1011	11 ½" CLUTCH ADAPTER PLATE	1
602966271	COTTER PIN 3/16 X 2 ½"	1
#28	S.S. HOSE CLAMP	2
125HBL-10-8	5/8 X ½ HOSE BARB	2
#24	S.S. HOSE CLAMP	2
1319	19" FAN, PYSHER (REV ROTATION)	1
#16	S.S. HOSE CLAMP	2
DC604-4	¼" DRAIN COCK	1
7694	BOTTOM RADIATOR HOSE	1
7240	UPPER RADIATOR HOSE	1
999558SNN	RADIATOR 4.3, 5.7 W/CAPS	1
300251-6	5/16 VINYLE HOSE BLACK	2ft
183	192 DEG THERMOSTAT	1
10144043	V6 INDICATOR	1
10077612	DIPSTICK TUBE	1
72011	O'RING (1/16 x 7/16 x 5/16)	1
605-1012	CHEV H/E THERMOSTAT HOUSING	1
10105135	THERMOSTAT HOUSING GASKET	1
10486024	HEI TIMING JUMPER	1
12097982	HEI COIL TO DIST WIRE	1
700276	PLUG WIRE SETS 4.3 IND	1
KM2066	ENGINE LIFTING EYES	2
2-9210	90 DEG PCV VALVE	1
KM2066	ENGINE LIFTING EYES	2
14091870	VALVE COVER GROMMET	4
9171	CHROME BREATHER CAP	1

4.0 GM ENGINE PARTS



1985–1999 **ENGINE ASM–4.3L V6 PART 1**

1.	0.643	RING KIT, PSTN (.030 O.S.)	85–92 I (LB4)	6	12507986
	0.643	RING KIT, PSTN (STD) (FOR PISTONS W/DEEP OIL GROOVE)	85–93 I (LB4)	6	14089025
	0.643	RING KIT, PSTN (.030 O.S.)	85–93 I (LB4)	6	14089026
	0.643	RING KIT, PSTN (.030" O.S.) (*17, 18, 24, 27)	94 I (LB4)	6	12528819

	0.643	**RING KIT,** PSTN (*13, 17, 18, 22, 23, 24, 27, 28, 31, 32) (STD)	96–99	I (L35, LB4)	6	12522848
	0.643	**RING KIT,** PSTN (*13, 17, 18, 22, 23, 24, 27, 28, 31, 32) (0.50 MM O.S.)	96–99	I (L35)	6	12524205
	0.643	**RING KIT,** PSTN (*17, 18, 24, 27) (.005" O.S.)	94	I (LB4)	6	12528818
	0.643	**RING KIT,** PSTN (*17, 18, 24, 27, 28, 31, 32) (STD)	95	I (LB4)	6	12522848
	0.643	**RING KIT,** PSTN (*17, 18, 24, 27, 28, 31, 32) (0.50 MM O.S.)	95	I (LB4)	6	12524205
	0.643	**RING KIT,** PSTN (*21, 28, 31) (.030 O.S.)	94	I (LB4)	6	12507986
	0.643	**RING KIT,** PSTN (*5) (.030 O.S.)	93	I (LB4)	6	12507986
	0.643	**RING KIT,** PSTN (STD) (FOR PISTONS W/SHALLOW OIL GROOVE)	85–92	I (LB4)	6	12507985
	0.643	**RING KIT,** PSTN (STD) (*21, 28, 31) (FOR PISTONS W/SHALLOW OIL GROOVE)	94	I (LB4)	6	12507985
	0.643	**RING KIT,** PSTN (STD) (*5) (FOR PISTONS W/SHALLOW OIL GROOVE)	93	I (LB4)	6	12507985
2.	0.629	**PISTON KIT,** ENG (INCLS PIN & RINGS) (STD)	85–92	I (LB4)	6	12514101
	0.629	**PISTON KIT,** ENG (HI LIMIT) (W/PIN & RINGS)	85–92	I (LB4)	6	12514102
	0.629	**PISTON KIT,** ENG (*13, 17, 18, 22, 23, 24, 27, 28, 31, 32) (STD)	96–99	I (L35)	6	12522850
	0.629	**PISTON KIT,** ENG (*13, 17, 18, 22, 23, 24, 27, 28, 31, 32) (0.50 MM O.S.)	96–99	I (L35)	6	12524224
	0.629	**PISTON KIT,** ENG (*17, 18, 24, 27, 28, 31, 32) (STD)	95	I (LB4)	6	12522850
	0.629	**PISTON KIT,** ENG (*17, 18, 24, 27, 28, 31, 32) (0.50 MM O.S.) ..	95	I (LB4)	6	12524224
	0.629	**PISTON KIT,** ENG (*21, 28, 31) (INCLS PIN & RINGS) (STD)	94	I (LB4)	6	12514101
	0.629	**PISTON KIT,** ENG (*21, 28, 31) (HI LIMIT) (W/PIN & RINGS)	94	I (LB4)	6	12514102
	0.629	**PISTON KIT,** ENG (*21, 28, 31) (.030 O.S.) (W/PIN & RINGS) ...	94	I (LB4)	6	12514103
	0.629	**PISTON KIT,** ENG (*5) (INCLS PIN & RINGS) (STD)	93	I (LB4)	6	12514101
	0.629	**PISTON KIT,** ENG (*5) (HI LIMIT) (W/PIN & RINGS)	93	I (LB4)	6	12514102
	0.629	**PISTON,** (W/PIN) (.030 O.S.) (*2, 3, 8, 9, 10, 11, 12, 17, 18, 24, 27)	93–94	I (LB4)	6	12514100
	0.629	**PISTON,** (W/PIN) (.030 O/S) (*13)	93	I (LB4)	6	12508704
	0.629	**PISTON,** (W/PIN) (SERV HI LIMIT) (*13)	93	I (LB4)	6	12508703
	0.629	**PISTON,** (W/PIN) (STD) (*13) ...	93	I (LB4)	6	12508702
	0.629	**PISTON,** (W/PIN) (STD) (*2, 3, 8, 9, 10, 11, 12, 17, 18, 24, 27)	93–94	I (LB4)	6	12514099
3.	0.603	**ROD,** CONN (BOLTS, CAP, NUT & ROD)	85–95	I (LB4)	6	10201166
	0.603	**ROD,** CONN (BOLTS, CAP, NUT & ROD)	96–99	I (L35)	6	10201166

4.	0.623	**BOLT,** CONN ROD	85-95	I (LB4)	12	10225009
	0.623	**BOLT,** CONN ROD	96-99	I (L35)	12	10225009
5.	0.616	**BEARING KIT,** CONN ROD (.014MM U.S.)	85-92	I (LB4)	6	18012482
	0.616	**BEARING KIT,** CONN ROD (.014MM U.S.) (*1, 6, 14, 15)	93	I (LB4)	6	18012482
	0.616	**BEARING KIT,** CONN ROD (STD)	85-95	I (LB4)	6	12522101
	0.616	**BEARING KIT,** CONN ROD (STD)	96-99	I (L35)	6	12522101
7.	0.626	**NUT,** CONN ROD (PART OF 3) (3/8-24) (HEX) (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10)	85-95	I (LB4)	12	3866766
	0.626	**NUT,** CONN ROD (PART OF 3) (3/8-24) (HEX) (*11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	85-95	I (LB4)	12	3866766
	0.626	**NUT,** CONN ROD (PART OF 3) (3/8-24) (HEX) (*21, 22, 23, 24, 25, 26, 27, 28)	85-95	I (LB4)	12	3866766
	0.626	**NUT,** CONN ROD (PART OF 3) (3/8-24) (HEX) (*31, 32)	85-95	I (LB4)	12	3866766
	0.626	**NUT,** CONN ROD (PART OF 3) (3/8-24) (HEX)	96-99	I (L35)	12	3866766
8.	0.033	**ENGINE,** (SERV PARTIAL) (*11) (INCLS 10-15, 25-27, 37, 56, 65)	90-93	I (LB4)	1	12515797
	0.033	**ENGINE,** (SERV PARTIAL) (*15, 16, 20) (INCLS 10-15, 25-27, 37, 56, 65)	90	I (LB4)	1	12515797
	0.033	**ENGINE,** (SERV PARTIAL) (*17, 18, 21, 24, 28, 31) (INCLS 1, 2, 3, 4, 5, 6, 7, 10, 12, 13, 15, 55, 63, 64, 66, 67.)	95	I (LB4)	1	12525527
	0.033	**ENGINE,** (SERV PARTIAL) (*17, 18, 22, 24, 27, 31, 32)	98	I (L35)	1	12557156
	0.033	**ENGINE,** (SERV PARTIAL) (*17, 18, 22, 24, 27, 32) (HAS METRIC BLOCK & SHORT CRANKSHAFT) (PARTIAL HAS METRIC THREADS AT THE FOLLOWING LOCATIONS:STARTER MOUNTING, ENGINE MOUNTING, TRANS TO ENGINE MOUNT & 1999 FLYWHEEL REQUIRED)	99	I (L35, EP2)	1	12561746
	0.033	**ENGINE,** (SERV PARTIAL) (*17, 18, 24, 27) (INCLS 1, 2, 3, 4, 5, 6, 7, 15, 51, 54, 55, 59, 63, 64, 65, 68, 93)	93	I (LB4)	1	12521986
	0.033	**ENGINE,** (SERV PARTIAL) (*17, 18, 24, 27, 28) (INCLS 1, 2, 3, 4, 5, 6, 7, 15, 51, 54, 55, 59, 63, 64, 65, 68, 93)	94	I (LB4)	1	12521986
	0.033	**ENGINE,** (SERV PARTIAL) (*17, 18, 24, 27, 28, 31, 32)	96-97	I (LB4)	1	12557156
	0.033	**ENGINE,** (SERV PARTIAL) (*25)	85-86	I (LB4)	1	12515797
	0.033	**ENGINE,** (SERV PARTIAL) (*26)	85-91	I (LB4)	1	12515797
	0.033	**ENGINE,** (SERV PARTIAL) (INCLS 10-15, 25-27, 37, 56, 65) (*1, 4, 7)	92	I (LB4)	1	12515797

	0.033	**ENGINE**, (SERV PARTIAL) (INCLS 10–15, 25–27, 37, 56, 65) (*2, 3, 5, 6, 8, 9, 10, 12)	92–93	I (LB4)	1	12515797
	0.000 A	**ENGINE**, GASOLINE (GOODWRENCH) (*23)	96	I (L35)	1	12532552
	0.000	**ENGINE**, GASOLINE (GOODWRENCH) (ONLY FOR 4.3 OEM ENGINE W/MECHANICAL FUEL PUMP & LESS BALANCE SHAFT) (INCL:BLK, CR/SHF, CR/SHF BRGS, RR SEAL, CONN ROD & BRGS, PISTON & RINGS, CM/SHF & BRGS, CYL HD, TIMING CHAIN & GEARS, FRT CVR, OIL PAN, OIL PUMP, INST SH.)	85–92	I (LB4)	1	12517971
	0.030	**BLOCK**, ENG (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12) (0.033) (INCLS 8, 14, 25, 26, 27, 59, 65, 66)	90–91	I (LB4) (*MARINE 1–PIECE REAR SEAL)	1	10205294
	0.030	**BLOCK**, ENG (*17, 18, 19, 21, 22, 23, 24) (0.033) (INCLS 8, 14, 25, 26, 27, 59, 65, 66)	90	I (LB4) (*MARINE 1–PIECE REAR SEAL)	1	10205294
9.	1.531	**PLUG**, ENG BLK OIL GAL (RR) (8.971) (AC–DELCO #3889330)	85–95	I (LB4)	RH	3889330
	1.531	**PLUG**, ENG BLK OIL GAL (RR) (8.971) (AC–DELCO #3889330)	96–99	I (L35)	RH	3889330
	1.531	**PLUG**, ENG BLK OIL GAL (RR) (AUTO DRAIN, INT SQ, 3/8–18X.42 PEOR STL) (8.971) .	85–95	I (LB4)	LH	14090911
	1.531	**PLUG**, ENG BLK OIL GAL (RR) (AUTO DRAIN, INT SQ, 3/8–18X.42 PEOR STL) (8.971) .	96–99	I (L35)	LH	14090911
10.	0.553	**PLUG**, CM/SHF RR BRG HOLE (CUP W/CNTR INDENTATION, 53.48 O.D., 1010 STL, ZINC FLASH) (8.970)	85–92	I (LB4)	1	10241154
	0.553	**PLUG**, CM/SHF RR BRG HOLE (CUP W/CNTR INDENTATION, 53.48 O.D., 1010 STL, ZINC FLASH) (8.970)	94–95	I (LB4)	1	10241154
	0.553	**PLUG**, CM/SHF RR BRG HOLE (CUP W/CNTR INDENTATION, 53.48 O.D., 1010 STL, ZINC FLASH) (8.970)	96–99	I (L35)	1	10241154
	0.553	**PLUG**, CM/SHF RR BRG HOLE (*1, 6, 14, 15) (CUP W/CNTR INDENTATION, 53.48 O.D., 1010 STL, ZINC FLASH) (8.970)	93	I (LB4)	1	10241154
	0.553	**PLUG**, CM/SHF RR BRG HOLE (*2, 3, 5, 8, 9, 10, 11, 12, 13, 17, 18, 24, 27) (CUP W/CNTR INDENTATION, 53.48 O.D., 1010 STL, ZINC FLASH) (8.970)	93	I (LB4)	1	10241154
11.	0.137	**PIN**, CR/SHF RR OIL SEAL HSG LOC (8.940)	85–95	I (LB4)	1	9441003
	0.137	**PIN**, CR/SHF RR OIL SEAL HSG LOC (8.940)	96–99	I (L35)	1	9441003

12.	0.293	**PIN**, CYL HD LOC (5/16X9/16 STL) (8.939) (AC-DELCO #585927)	85-95	I (LB4)	6	585927
	0.293	**PIN**, CYL HD LOC (5/16X9/16 STL) (8.939) (AC-DELCO #585927)	96-99	I (L35)	4	585927
13.	0.685	**PIN**, TRANS LOC (5/8 DIA, 1 3/16 LG) (8.939)	85-95	I (LB4)	2	12338119
	0.685	**PIN**, TRANS LOC (5/8 DIA, 1 3/16 LG) (8.939)	96-99	I (L35)	2	12338119
14.	0.034	**PLUG**, ENG BLK CORE HOLE (41.5MM DIA) (BRASS)	85-92	I (LB4)	6	3826504
	0.034	**PLUG**, ENG BLK CORE HOLE (41.5MM DIA) (BRASS)	94	I (LB4)	6	3826504
	0.034	**PLUG**, ENG BLK CORE HOLE (41.5MM DIA) (BRASS)	96-99	I (L35)	6	3826504
	0.034	**PLUG**, ENG BLK CORE HOLE (*1, 2, 3, 6, 8, 9, 10, 11, 12, 14, 15, 17, 18, 24, 27) (41.5MM DIA) (BRASS)	93	I (LB4)	6	3826504
	0.034	**PLUG**, ENG BLK CORE HOLE (*13) (41.5MM DIA) (STEEL)	91	I (LB4)	5	838538
	0.034	**PLUG**, ENG BLK CORE HOLE (*13) (41.5MM DIA) (STEEL)	93	I (LB4)	5	838538
	0.034	**PLUG**, ENG BLK CORE HOLE (*13, 17, 18, 22, 23, 24, 27, 28, 31, 32) (41.5MM DIA) (STEEL)	96-99	I (L35)	5	838538
	0.034	**PLUG**, ENG BLK CORE HOLE (*17, 18, 24, 27, 32) (41.5MM DIA) (STEEL)	96-99	I (L35)	5	838538
	0.034	**PLUG**, ENG BLK CORE HOLE (*5) (41.5MM DIA) (STEEL)	91-93	I (LB4)	5	838538
15.	1.837	**VALVE**, OIL FLTR BYPASS (INCLS CAGE, SEAT, SPRING & VALVE) (AC-DELCO #25014006)	85-91	I (LB4)	1	25014006
	1.837	**VALVE**, OIL FLTR BYPASS (INCLS CAGE, SEAT, SPRING & VALVE) (AC-DELCO #25014006)	93-95	I (LB4)	1	25014006
	1.837	**VALVE**, OIL FLTR BYPASS (INCLS CAGE, SEAT, SPRING & VALVE) (AC-DELCO #25014006)	96-99	I (L35)	1	25014006
	1.837	**VALVE**, OIL FLTR BYPASS (*1, 4, 6, 7) (INCLS CAGE, SEAT, SPRING & VALVE) (AC-DELCO #25014006)	92	I (LB4)	1	25014006
16.	0.738	**PIN**, CM/SHF SPKT LOC (8.939)	94-95	I (LB4)	1	141201
	0.738	**PIN**, CM/SHF SPKT LOC (8.939)	96-99	I (L35)	1	141201
	0.738	**PIN**, CM/SHF SPKT LOC (*13) (1/4 X 5/8) (8.939)	91	I (LB4)	1	12554553
	0.738	**PIN**, CM/SHF SPKT LOC (*14, 15, 17, 18, 24, 27) (8.939)	93	I (LB4)	1	141201
	0.738	**PIN**, CM/SHF SPKT LOC (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) (8.939)	90	I (LB4)	1	12554553
	0.738	**PIN**, CM/SHF SPKT LOC (*4, 7) (1/4 X 5/8) (8.939)	90-92	I (LB4)	1	12554553
17.	1.531	**PLUG**, ENG BLK OIL GAL (FRT) (CUP 16.5, 9.7 LG .89 THK-STL) (AC-DELCO #461345)	93	I (LB4)	RH	461345

	1.531	PLUG, ENG BLK OIL GAL (FRT) (CUP .476X.31)	93–95	I (LB4)	RH	1	14091563
	1.531	PLUG, ENG BLK OIL GAL (FRT) (CUP .626X.31) (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12)	93	I (LB4)	LH	1	10105918
	1.531	PLUG, ENG BLK OIL GAL (FRT) (CUP .626X.31)	94–95	I (LB4)	LH	1	10105918
	1.531	PLUG, ENG BLK OIL GAL (FRT) (CUP .476X.31)	96–99	I (L35)	RH	1	14091563
	1.531	PLUG, ENG BLK OIL GAL (FRT) (CUP .626X.31)	96–99	I (L35)	LH	1	10105918
18.	0.519	CAMSHAFT, (*1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12) (INCL 16)	90–91	I (LB4)		1	10214714
	0.519	CAMSHAFT, (*1, 2, 3, 6, 8, 9, 10, 11, 12) (INCL 16)	92–93	I (LB4)		1	10214714
	0.519	CAMSHAFT, (*13) (INCL 16)	91	I (LB4)		1	10214713
	0.519	CAMSHAFT, (*13) (INCL 16)	93	I (LB4)		1	10214713
	0.519	CAMSHAFT, (*14, 15, 17, 18, 24, 27) (INCL 16)	94–95	I (LB4)		1	14097324
	0.519	CAMSHAFT, (*15, 16) (INCL 16)	90	I (LB4)		1	14096234
	0.519	CAMSHAFT, (*17, 18, 19, 20, 21, 22, 23, 24) (INCL 16)	90	I (LB4)		1	10214714
	0.519	CAMSHAFT, (*17, 18, 24, 27) (INCL 16)	96–99	I (L35)		1	14097324
	0.519	CAMSHAFT, (*28, 31, 32) (INCL 16)	94–95	I (LB4)		1	10144065
	0.519	CAMSHAFT, (*28, 31, 32) (INCL 16)	96–97	I (L35)		1	10144065
	0.519	CAMSHAFT, (*4, 7) (INCL 16)	92	I (LB4)		1	10214714
	0.519	CAMSHAFT, (*5) (INCL 16)	90–91	I (LB4)		1	14096416
	0.519	CAMSHAFT, (*5) (INCL 16)	92	I (LB4)		1	10214713
	0.519	CAMSHAFT, (*5) (INCL 16)	93	I (LB4)		1	10172776
	0.519	CAMSHAFT, ENG (*13, 23) (INCL 16) (INCLS PIN)	96–97	I (L35)		1	10241691
	0.519	CAMSHAFT, ENG (*22, 28, 31, 32) (INCL 16) (INCLS PIN)	98–99	I (L35)		1	10241691
19.	0.724	CHAIN, CM/SHF TMG (*1, 2, 3, 6, 8, 9, 10, 11, 12) (IS A ROLLER CHAIN) (.275/.285")	90–93	I (LB4)		1	14088783
	0.724	CHAIN, CM/SHF TMG (*13) (9–LINKS) (DIM 5.737 36 TEETH, DIM 2.879 18 TEETH)	91	I (LB4)		1	14087014
	0.724	CHAIN, CM/SHF TMG (*13, 14, 15, 17, 18, 24, 27) (IS A ROLLER CHAIN) (.275/.285")	93	I (LB4)		1	14088783
	0.724	CHAIN, CM/SHF TMG (*13, 23, 28, 31, 32) (DIM 4.532 36 TEETH, DIM 4.522 18 TEETH)	96–97	I (L35)		1	10128485
	0.724	CHAIN, CM/SHF TMG (*17, 18, 19, 20, 21, 22, 23, 24) (IS A ROLLER CHAIN) (.275/.285")	90	I (LB4)		1	14088783
	0.724	CHAIN, CM/SHF TMG (*17, 18, 24, 27) (IS A ROLLER CHAIN) (.275/.285")	94–95	I (LB4)		1	14088783
	0.724	CHAIN, CM/SHF TMG (*17, 18, 24, 27) (IS A ROLLER CHAIN) (.275/.285")	96–99	I (L35)		1	14088783

	0.724	**CHAIN**, CM/SHF TMG (*21, 28, 31) (9–LINKS) (DIM 5.737 36 TEETH, DIM 2.879 18 TEETH) ..	94–95	I (LB4)	1	14087014
	0.724	**CHAIN**, CM/SHF TMG (*22, 28, 31, 32) (DIM 4.532 36 TEETH, DIM 4.522 18 TEETH)	98–99	I (L35)	1	10128485
	0.724	**CHAIN**, CM/SHF TMG (*25) (IS A ROLLER CHAIN) (.275/.285") ...	85–86	I (LB4)	1	14088783
	0.724	**CHAIN**, CM/SHF TMG (*26) (IS A ROLLER CHAIN) (.275/.285") ...	85–91	I (LB4)	1	14088783
	0.724	**CHAIN**, CM/SHF TMG (*4, 7) (IS A ROLLER CHAIN) (.275/.285") .	90–92	I (LB4)	1	14088783
	0.724	**CHAIN**, CM/SHF TMG (*5) (9–LINKS) (DIM 5.737 36 TEETH, DIM 2.879 18 TEETH)	90–93	I (LB4)	1	14087014
20.	0.736	**SPROCKET**, CM/SHF (*1, 2, 3, 6, 8, 9, 10, 11, 12, 13) (36 TEETH))	90–93	I (LB4)	1	12552129
	0.736	**SPROCKET**, CM/SHF (*13) (36 TEETH) (.395/.405" TOOTH WIDTH)	91	I (LB4)	1	12552128
	0.736	**SPROCKET**, CM/SHF (*13) (36 TEETH) (.395/.405" TOOTH WIDTH)	93	I (LB4)	1	12552128
	0.736	**SPROCKET**, CM/SHF (*13, 23, 28, 31, 32)	96–97	I (L35)	1	10144121
	0.736	**SPROCKET**, CM/SHF (*14, 15, 17, 18, 24, 27)	93	I (LB4)	1	10144125
	0.736	**SPROCKET**, CM/SHF (*17, 18, 19, 20, 21, 22, 23, 24)	90	I (LB4)	1	12552129
	0.736	**SPROCKET**, CM/SHF (*17, 18, 24, 27)	96–99	I (L35)	1	10144125
	0.736	**SPROCKET**, CM/SHF (*22, 28, 31, 32)	98–99	I (L35)	1	10144121
	0.736	**SPROCKET**, CM/SHF (*25)	85–86	I (LB4)	1	12552128
	0.736	**SPROCKET**, CM/SHF (*26) (36 TEETH))	85–91	I (LB4)	1	12552129
	0.736	**SPROCKET**, CM/SHF (*28, 31, 32)	94–95	I (LB4)	1	10144121
	0.736	**SPROCKET**, CM/SHF (*4, 7) (36 TEETH))	90–92	I (LB4)	1	12552129
	0.736	**SPROCKET**, CM/SHF (*5) (36 TEETH) (.395/.405" TOOTH WIDTH)	90–93	I (LB4)	1	12552128
	N.S.	**SPROCKET**, CM/SHF (*15, 16, KIT2)	90	I (LB4)		
21.	0.728	**SPROCKET**, CR/SHF (*1, 2, 3, 6, 8, 9, 10, 11, 12) (18 TEETH)) (IS A ROLLER CHAIN) (.275/.285"TOOTH WIDTH)	90–93	I (LB4)	1	14088784
	0.728	**SPROCKET**, CR/SHF (*13) (18 TEETH) (.40/.41" TOOTH WIDTH)	91	I (LB4)	1	464617
	0.728	**SPROCKET**, CR/SHF (*13, 14, 15, 17, 18, 24, 27) (18 TEETH)) (IS A ROLLER CHAIN) (.275/.285"TOOTH WIDTH)	93	I (LB4)	1	14088784
	0.728	**SPROCKET**, CR/SHF (*13, 22, 23, 28, 31, 32) (18 TEETH) (.40/.41" TOOTH WIDTH)	96–99	I (L35)	1	464617

0.728	SPROCKET, CR/SHF (*17, 18, 19, 20, 21, 22, 23, 24) (IS A ROLLER CHAIN) (.275/.285"TOOTH WIDTH)	90	I (LB4)	1	14088784
0.728	SPROCKET, CR/SHF (*17, 18, 24, 27) (18 TEETH) (.40/.41" TOOTH WIDTH)	94–95	I (LB4)	1	464617
0.728	SPROCKET, CR/SHF (*17, 18, 24, 27) (18 TEETH)) (IS A ROLLER CHAIN) (.275/.285"TOOTH WIDTH)	94–95	I (LB4)	1	14088784
0.728	SPROCKET, CR/SHF (*17, 18, 24, 27) (18 TEETH)) (IS A ROLLER CHAIN) (.275/.285"TOOTH WIDTH)	96–99	I (L35)	1	14088784
0.728	SPROCKET, CR/SHF (*25) (IS A ROLLER CHAIN) (.275/.285"TOOTH WIDTH)	85–86	I (LB4)	1	14088784
0.728	SPROCKET, CR/SHF (*26) (18 TEETH)) (IS A ROLLER CHAIN) (.275/.285"TOOTH WIDTH)	85–91	I (LB4)	1	14088784
0.728	SPROCKET, CR/SHF (*4, 7) (18 TEETH)) (IS A ROLLER CHAIN) (.275/.285"TOOTH WIDTH)	90–92	I (LB4)	1	14088784
0.728	SPROCKET, CR/SHF (*5) (18 TEETH) (.40/.41" TOOTH WIDTH)	90–93	I (LB4)	1	464617
N.S.	SPROCKET, CR/SHF (*15, 16, KIT2)	90	I (LB4)	1	
N.S.	SPROCKET, CR/SHF (*15, 16, KIT2)	90	I (LB4)	AR	
0.728	SPROCKET, CR/SHF (*1, 2, 3, 6, 8, 9, 10, 11, 12) (18 TEETH)) (IS A ROLLER CHAIN) (.275/.285"TOOTH WIDTH)	90–93	I (LB4)	1	14088784
0.728	SPROCKET, CR/SHF (*13) (18 TEETH) (.40/.41" TOOTH WIDTH)	91	I (LB4)	1	464617
0.728	SPROCKET, CR/SHF (*13, 14, 15, 17, 18, 24, 27) (18 TEETH)) (IS A ROLLER CHAIN) (.275/.285"TOOTH WIDTH)	93	I (LB4)	1	14088784
0.728	SPROCKET, CR/SHF (*13, 22, 23, 28, 31, 32) (18 TEETH) (.40/.41" TOOTH WIDTH)	96–99	I (L35)	1	464617
0.728	SPROCKET, CR/SHF (*17, 18, 19, 20, 21, 22, 23, 24) (IS A ROLLER CHAIN) (.275/.285"TOOTH WIDTH)	90	I (LB4)	1	14088784
0.728	SPROCKET, CR/SHF (*17, 18, 24, 27) (18 TEETH) (.40/.41" TOOTH WIDTH)	94–95	I (LB4)	1	464617
0.728	SPROCKET, CR/SHF (*17, 18, 24, 27) (18 TEETH)) (IS A ROLLER CHAIN) (.275/.285"TOOTH WIDTH)	94–95	I (LB4)	1	14088784
0.728	SPROCKET, CR/SHF (*17, 18, 24, 27) (18 TEETH)) (IS A ROLLER CHAIN) (.275/.285"TOOTH WIDTH)	96–99	I (L35)	1	14088784

	0.728	SPROCKET, CR/SHF (*25) (IS A ROLLER CHAIN) (.275/.285"TOOTH WIDTH)	85–86	I (LB4)	1	14088784
	0.728	SPROCKET, CR/SHF (*26) (18 TEETH)) (IS A ROLLER CHAIN) (.275/.285"TOOTH WIDTH)	85–91	I (LB4)	1	14088784
	0.728	SPROCKET, CR/SHF (*4, 7) (18 TEETH)) (IS A ROLLER CHAIN) (.275/.285"TOOTH WIDTH)	90–92	I (LB4)	1	14088784
	0.728	SPROCKET, CR/SHF (*5) (18 TEETH) (.40/.41" TOOTH WIDTH)	90–93	I (LB4)	1	464617
22.	0.738	BOLT, CM/SHF SPKT (5/16–18 X 3/4, 300M) (HEX HD, STEEL) (8.900)	85–92	I (LB4)	3	9424877
	0.738	BOLT, CM/SHF SPKT (5/16–18X1 3/8 HH 280M PC) (8.900)	94–95	I (LB4)	3	9419033
	0.738	BOLT, CM/SHF SPKT (5/16–18X1 3/8 HH 280M PC) (8.900)	96–97	I (L35)	3	9419033
	0.738	BOLT, CM/SHF SPKT (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12, 13) (5/16–18 X 3/4, 300M) (HEX HD, STEEL) (8.900)	93	I (LB4)	3	9424877
	0.738	BOLT, CM/SHF SPKT (*14, 15, 17, 18, 24, 27) (5/16–18X1 3/8 HH 280M PC) (8.900)	93	I (LB4)	2	9419033
	0.738	BOLT, CM/SHF SPKT (*17, 18, 22, 24, 27, 28, 31, 32) (5/16–18X1 3/8 HH 280M PC) (8.900)	98–99	I (L35)	AR	9419033
23.	0.529	BOLT, CM/SHF RET (HEX SOC TORQ DR 1/4–20X.5, .47 OD) ..	85–92	I (LB4)	2	14093637
	0.529	BOLT, CM/SHF RET (FLAT CS 1/4, 20X.625, .435 THD)	94–95	I (LB4)	2	10105912
	0.529	BOLT, CM/SHF RET (FLAT CS 1/4, 20X.625, .435 THD)	96–99	I (L35)	2	10105912
	0.529	BOLT, CM/SHF RET (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12, 13) (HEX SOC TORQ DR 1/4–20X.5, .47 OD) ..	93	I (LB4)	2	14093637
	0.529	BOLT, CM/SHF RET (*14, 15, 17, 18, 24, 27) (FLAT CS 1/4, 20X.625, .435 THD)	93	I (LB4)	2	10105912
24.	0.529	RETAINER, CM/SHF	85–91	I (LB4)	1	10088128
	0.529	RETAINER, CM/SHF	94–95	I (LB4)	1	10144059
	0.529	RETAINER, CM/SHF	96–99	I (L35)	1	10144059
	0.529	RETAINER, CM/SHF (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12)	92–93	I (LB4)	1	10088128
	0.529	RETAINER, CM/SHF (*13)	93	I (LB4)	1	10088128
	0.529	RETAINER, CM/SHF (*14, 15, 17, 18, 24, 27)	93	I (LB4)	1	10144059
	0.529	RETAINER, CM/SHF (*4, 7)	92	I (LB4)	1	10088128
25.	0.539	BEARING, CM/SHF (#1 POS) ..	85–95	I (LB4)	1	12453170
	0.539	BEARING, CM/SHF (#1 POS) ..	96	I (L35)	1	12453170
	0.539	BEARING, CM/SHF (#1 POS) (*28, 31, 32)	97–99	I (L35) (1ST DES)	1	12453170

	0.539	**BEARING**, CM/SHF (#1 POS) (IDENTIFIED BY I.D.# ON LEFT SIDE RR TRANS HOUSING FLANGE THAT STARTS WITH AN"A"FOLLOWED BY A 8 DIGIT #.) (*28, 31, 32)	97–99 I (L35) (2ND DES)	1	12453170
	0.539	**BEARING**, CM/SHF (#1 POS) (*17, 18, 24, 27)	97–99 I (L35)	1	12453170
26.	0.539	**BEARING**, CM/SHF (#2 POS) ..	85–95 I (LB4)	1	12453171
	0.539	**BEARING**, CM/SHF (#2 POS) ..	96 I (L35)	1	12453172
	0.539	**BEARING**, CM/SHF (#2 POS) (HOUSING FLANGE IS BLANK) (*28, 31, 32)	97–99 I (L35) (1ST DES)	1	12453172
	0.539	**BEARING**, CM/SHF (#2 POS) (IDENTIFIED BY I.D.#ON LEFT SIDE RR TRANS HOUSING FLANGE THAT STARTS WITH AN"A"FOLLOWED BY A 8 DIGITS #.) (*28, 31, 32)	97–99 I (L35) (2ND DES)	1	12453171
	0.539	**BEARING**, CM/SHF (#2 POS) (*17, 18, 24, 27)	97–99 I (L35)	1	12453172
27.	0.539	**BEARING**, CM/SHF (#3 POS) ..	85–95 I (LB4)	1	12453172
	0.539	**BEARING**, CM/SHF (#3 POS) ..	96 I (L35)	1	12453172
	0.539	**BEARING**, CM/SHF (#3 POS) (HOUSING FLANGE IS BLANK) (*28, 31, 32)	97–99 I (L35) (1ST DES)	1	12453171
	0.539	**BEARING**, CM/SHF (#3 POS) (IDENTIFIED BY I.D.#ON LEFT SIDE RR–TRANS HOUSING STARTS WITH AN "A"FOLLOWED BY A 8 DIGIT #.) (*28, 31, 32) ..	97–99 I (L35) (2ND DES)	1	12453172
	0.539	**BEARING**, CM/SHF (#3 POS) (*17, 18, 24, 27)	97–99 I (L35)	1	12453171
28.	0.539	**BEARING**, CM/SHF (#4 POS RR POS)	85–95 I (LB4)	1	12453170
	0.539	**BEARING**, CM/SHF (#4 POS RR POS)	96 I (L35)	1	12453170
	0.539	**BEARING**, CM/SHF (#4 POS RR POS) (HOUSING FLANGE IS BLANK) (*28, 31, 32)	97–99 I (L35) (1ST DES)	1	12453170
	0.539	**BEARING**, CM/SHF (#4 POS RR POS) (IDENDTIFIED BY I.D.# ON LEFT SIDE RR TRANS HOUSING FLANGE THAT STARTS WITH AN "A" FOLLOWED BY A 8 DIGITS #.) (*28, 31, 32)	97–99 I (L35) (2ND DES)	1	12453171
	0.539	**BEARING**, CM/SHF (#4 POS RR POS) (*17, 18, 24, 27)	97–99 I (L35)	1	12453170
29.	3.901	**COVER**, F/PMP OPG (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)	90–91 I (LB4)	1	14094068
	3.901	**COVER**, F/PMP OPG (*13)	91 I (LB4)	1	14094068
	3.901	**COVER**, F/PMP OPG (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) ...	90 I (LB4)	1	14094068
30.	3.901	**BOLT**, F/PMP OPG CVR (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12) (8.900)	90–91 I (LB4)	6	9439930

	3.901	**BOLT**, F/PMP OPG CVR (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12) (8.900) (AC–DELCO #9440224) (HFH 5/16–18X.62 280M POR DIM A– .48 .65 OD)	90–91	I (LB4)	20	9440224
	3.901	**BOLT**, F/PMP OPG CVR (*13) (8.900)	91	I (LB4)	6	9439930
	3.901	**BOLT**, F/PMP OPG CVR (*13) (8.900) (AC–DELCO #9440224) (HFH 5/16–18X.62 280M POR DIM A– .48 .65 OD)	91	I (LB4)	20	9440224
	3.901	**BOLT**, F/PMP OPG CVR (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) (8.900)	90	I (LB4)	6	9439930
	3.901	**BOLT**, F/PMP OPG CVR (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) (8.900) (AC–DELCO #9440224)	90	I (LB4)	20	9440224
31.	1.079	**GASKET**, W/PMP (PART OF 35)	96–99	I (L35)	2	3754587
	1.079	**GASKET**, W/PMP (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12) (PART OF 35)	90–93	I (LB4)	2	3754587
	1.079	**GASKET**, W/PMP (*13) (PART OF 35)	91	I (LB4)	1	3754587
	1.079	**GASKET**, W/PMP (*13, 14, 15, 17, 18, 24, 27) (PART OF 35)	93	I (LB4)	1	3754587
	1.079	**GASKET**, W/PMP (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) (PART OF 35)	90	I (LB4)	1	3754587
	1.079	**GASKET**, W/PMP (*17, 18, 24, 27, 28, 31, 32) (PART OF 35)	94–95	I (LB4)	2	3754587
	1.079	**GASKET**, W/PMP (*4, 7) (PART OF 35)	90–92	I (LB4)	1	3754587
32.	1.079	**BOLT**, W/PMP (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12, 14, 15, 17, 18, 24, 27.) (3/8–16X1.0X2.75LG) (HEX) (8.900)	93	I (LB4)	1	9442250
	1.079	**BOLT**, W/PMP (*13) (3/8–16X1.0X2.75LG) (HEX) (8.900)	91	I (LB4)	1	9442250
	1.079	**BOLT**, W/PMP (*13) (3/8–16X2 1/4 *) (8.900)	93	I (LB4)	1	9442012
	1.079	**BOLT**, W/PMP (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) (8.900)	90	I (LB4)	1	9442250
	1.079	**BOLT**, W/PMP (*17, 18, 24, 27) (3/8–16 X 1 3/4 CAD) (HEX) (8.900)	96–99	I (L35)	2	9439637
	1.079	**BOLT**, W/PMP (*17, 18, 24, 27) (3/8–16X1.0X2.75LG) (HEX) (8.900)	96–99	I (L35)	1	9442250
	1.079	**BOLT**, W/PMP (*17, 18, 24, 27, 28) (3/8–16X1.0X2.75LG) (HEX) (8.900)	94–95	I (LB4)	1	9442250
	1.079	**BOLT**, W/PMP (*21, 28, 31.) (3/8–16X2.12)	96	I (LB4)	4	12552096
	1.079	**BOLT**, W/PMP (*21, 28, 31, 32) (3/8–16X2 1/4 *) (8.900)	94–95	I (LB4)	AR	9442012
	1.079	**BOLT**, W/PMP (*22, 32) (3/8–16X2.12)	99	I (L35)	4	12552096
	1.079	**BOLT**, W/PMP (*23, 28, 31, 32) (3/8–16X2.12)	96–99	I (L35)	4	12552096

						OM00-003D
	1.079	BOLT, W/PMP (*4, 7) (3/8-16X1.0X2.75LG) (HEX) (8.900)	90-92	I (LB4)	1	9442250
33.	1.079	STUD, W/PMP (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12) (5/16-24 X 3/8-16 X 2 9/16) (1.073)	90-93	I (LB4)	RH	3759755
	1.079	STUD, W/PMP (*13) (5/16-24 X 3/8-16 X 2 9/16) (1.073)	91	I (LB4)	RH	3759755
	1.079	STUD, W/PMP (*13) (3/8-16X2.25, 3/8-16X.75)	93	I (LB4)	1	10088164
	1.079	STUD, W/PMP (*14, 15, 17, 18, 24, 27) (5/16-24 X 3/8-16 X 2 9/16) (1.073)	93	I (LB4)	RH	3759755
	1.079	STUD, W/PMP (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) (1.073)	90	I (LB4)	RH	3759755
	1.079	STUD, W/PMP (*17, 18, 24, 27) (5/16-24 X 3/8-16 X 2 9/16) (1.073)	96-99	I (L35)	RH	3759755
	1.079	STUD, W/PMP (*17, 18, 24, 27, 28) (5/16-24 X 3/8-16 X 2 9/16) (1.073)	94-95	I (LB4)	RH	3759755
	1.079	STUD, W/PMP (*4, 7) (5/16-24 X 3/8-16 X 2 9/16) (1.073)	90-92	I (LB4)	RH	3759755
34.	1.079	BOLT, W/PMP (3/8-16 X 1 3/4 CAD) (HEX) (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12) (8.900)	90-93	I (LB4)	1	9439637
	1.079	BOLT, W/PMP (3/8-16 X 1 3/4 CAD) (HEX) (*4, 7) (8.900)	90-92	I (LB4)	1	9439637
	1.079	BOLT, W/PMP (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27) (3/8-16 X 1 3/4 CAD) (HEX) (8.900)	90	I (LB4)	1	9439637
	1.079	BOLT, W/PMP (3/8-16X2 1/4 *) (*13) (8.900)	91	I (LB4)	1	9442012
	1.079	BOLT, W/PMP (3/8-16 X 1 3/4 CAD) (HEX) (*14, 15, 17, 18, 24, 27) (8.900)	93	I (LB4)	1	9439637
	1.079	BOLT, W/PMP (3/8-16X2 1/4 *) (*13) (8.900)	93	I (LB4)	1	9442012
	1.079	BOLT, W/PMP (3/8-16 X 1 3/4 CAD) (HEX) (*17, 18, 24, 27, 28, 32) (8.900)	94-95	I (LB4)	1	9439637
	1.079	BOLT, W/PMP (3/8-16X2 1/4 *) (*31) (8.900)	95	I (LB4)	1	9442012
	1.079	BOLT, W/PMP (3/8-16 X 1 3/4 CAD) (HEX) (*17, 18, 24, 27) (8.900)	96-99	I (L35)	1	9439637
	1.079	BOLT, W/PMP (3/8-16X2.12) (*21, 28, 31)	96-99	I (L35)	1	12552096
35.	1.069	PUMP, WAT (*28) (INCLS GASKET) (AC-DELCO #251-501)	94	I (LB4)	1	12522037
	1.069	PUMP, WAT (*31) (AC-DELCO #251-544)	94-95	I (LB4)	1	12529305
	1.069	PUMP, WAT (*5) (INCLS GASKET) (AC-DELCO #251-501)	93	I (LB4)	1	12522037

	1.069	**PUMP KIT**, WAT (*1, 2, 3, 6, 8, 10, 11, 12) (AC–DELCO #251–568)	90–93	I (LB4)	1	12529508
	1.069	**PUMP KIT**, WAT (*13) (INCLS BOLTS, BRG, COVER, GKST, HSG, HUB, IMPELLER&SEAL) (AC–DELCO #251–581)	93	I (LB4)	1	12532531
	1.069	**PUMP KIT**, WAT (*14, 15, 17, 18, 24, 27) (AC–DELCO #251–568) (INCL 31, 104, 105, 106, 107)	93	I (LB4)	1	12529508
	1.069	**PUMP KIT**, WAT (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) (AC–DELCO #251–568) (INCL 31, 104, 105, 106, 107)	90	I (LB4)	1	12529508
	1.069	**PUMP KIT**, WAT (*17, 18, 24, 27) (AC–DELCO #251–568) (INCL 31, 104, 105, 106, 107)	94–95	I (LB4)	1	12529508
	1.069	**PUMP KIT**, WAT (*17, 18, 24, 27) (AC–DELCO #251–568)	96–99	I (L35)	1	12529508
	1.069	**PUMP KIT**, WAT (*17, 18, 24, 28) (AC–DELCO #251–568)	95	I (LB4)	1	12529508
	1.069	**PUMP KIT**, WAT (*22, 28, 31, 32) (INCLS BOLT, BRG, CON, CVR, GKST, HSG, HUB, IMPEL, LABEL, NIPPLE&SEAL) (AC–DELCO #251–579)	96–99	I (L35)	1	12532528
	1.069	**PUMP KIT**, WAT (*28, 32) (INCLS BOLTS, BRG, COVER, GKST, HSG, HUB, IMPELLER&SEAL) (AC–DELCO #251–581)	95	I (LB4)	1	12532531
	1.069	**PUMP KIT**, WAT (*32) (INCLS BOLTS, BRG, COVER, GKST, HSG, HUB, IMPELLER&SEAL) (AC–DELCO #251–581)	94	I (LB4)	1	12532531
	1.069	**PUMP KIT**, WAT (*4, 7) (AC–DELCO #251–568) (INCL 31, 104, 105, 106, 107)	90–92	I (LB4)	1	12529508
	1.069	**PUMP KIT**, WAT (*5) (INCLS GASKET) (AC–DELCO #251–501) (INCLS 31, 105, 106, 107)	90–93	I (LB4)	1	12522037
	1.069	**PUMP KIT**, WAT (14, 15, 17, 18, 24, 27) (AC–DELCO #251–568) (INCL 31, 104, 105, 106, 107)	93	I (LB4)	1	12529508
36.	1.639	**SHAFT**, O/PMP DRV	85–95	I (LB4)	1	3998287
	1.639	**SHAFT**, O/PMP DRV	96–99	I (L35)	1	3998287
37.	0.206	**PIN**, O/PMP LOC (1/4 X 5/8) (8.939)	85–95	I (LB4)	AR	12554553
	0.206	**PIN**, O/PMP LOC (1/4 X 5/8) (8.939)	96–99	I (L35)	1	12554553
38.	1.639	**RETAINER**, O/PMP DRV SHF	85–95	I (LB4)	1	3764554
	1.639	**RETAINER**, O/PMP DRV SHF	96–99	I (L35)	1	3764554
39.	1.652	**PUMP**, OIL (INCL 42, 43, 44, 45, 46, 47)	85–92	I (LB4)	1	12555284
	1.652	**PUMP**, OIL (.742 DIA. TUBE) (INCLS BOLTS, COVERS, GEARS, HSGS, PIN, PLUG, SHFS, SPR&VLV) (INCL 42, 43, 44, 45, 46, 47)	95	I (LB4)	1	12555283

	1.652	**PUMP**, OIL (.742 DIA. TUBE) (INCLS BOLTS, COVERS, GEARS, HSGS, PIN, PLUG, SHFS, SPR&VLV) (INCL 42, 43, 44, 45, 46, 47)	96–99	I (L35)	1	12555283
	1.652	**PUMP**, OIL (.742 DIA. TUBE) (*5) (INCLS BOLTS, COVERS, GEARS, HSGS, PIN, PLUG, SHFS, SPR&VLV) (INCL 42, 43, 44, 45, 46, 47)	93	I (LB4)	1	12555283
	1.652	**PUMP**, OIL (*1, 2, 3, 6, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 24, 27)	93	I (LB4)	1	12555284
40.	1.652	**BOLT**, O/PMP (7/16–14X2 3/8)	85–95	I (LB4)	1	10046007
	1.652	**BOLT**, O/PMP (7/16–14X2 3/8)	96–99	I (L35)	1	10046007
41.	1.656	**SCREEN**, O/PMP (*1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12) (.620 DIA. TUBE)	90–92	I (LB4)	1	3764113
	1.656	**SCREEN**, O/PMP (*1, 2, 3, 6, 8, 9, 11, 12, 14, 15, 17, 18, 24, 27) (.620 DIA. TUBE)	93	I (LB4)	1	3764113
	1.656	**SCREEN**, O/PMP (*10)	90–93	I (LB4)	1	3855152
	1.656	**SCREEN**, O/PMP (*13)	91	I (LB4)	1	10054773
	1.656	**SCREEN**, O/PMP (*13)	93	I (LB4)	1	10054773
	1.656	**SCREEN**, O/PMP (*13, 23) (INCLS COVER)	96–97	I (L35)	1	12555117
	1.656	**SCREEN**, O/PMP (*15, 16, 17, 18, 20, 21, 22, 23, 24) (.620 DIA. TUBE)	90	I (LB4)	1	3764113
	1.656	**SCREEN**, O/PMP (*17, 18, 21, 24, 27, 28, 31) (.742 DIA TUBE)	95	I (LB4)	1	10166159
	1.656	**SCREEN**, O/PMP (*17, 18, 22, 24, 27, 28, 31, 32) (INCLS COVER)	96–99	I (L35)	1	12555116
	1.656	SCREEN, O/PMP (*19)	90	I (LB4)	1	3855152
	1.656	**SCREEN**, O/PMP (*25) (.620 DIA. TUBE)	85–86	I (LB4)	1	3764113
	1.656	**SCREEN**, O/PMP (*26) (.620 DIA. TUBE)	85–91	I (LB4)	1	3764113
	1.656	**SCREEN**, O/PMP (*5) (.742 DIA TUBE)	93	I (LB4)	1	10166159
42.	1.609	**PLUG**, OIL PRESS RLF VLV BORE (PART OF 39, 47) (NON–THD 7/16 DIA, 13/32 LGTH) (CHAM ENDS, STL8)	85–93	I (LB4)	1	3704871
	1.609	**PLUG**, OIL PRESS RLF VLV BORE (PART OF 39, 47) (NON–THD 7/16 DIA, 13/32 LGTH) (CHAM ENDS, STL8)	95	I (LB4)	1	3704871
	1.609	**PLUG**, OIL PRESS RLF VLV BORE (PART OF 39, 47) (NON–THD 7/16 DIA, 13/32 LGTH) (CHAM ENDS, STL8)	96–99	I (L35)	1	3704871
43.	1.609	**VALVE**, OIL PRESS RLF (PART OF 39, 47)	85–93	I (LB4)	1	3702366
	1.609	**VALVE**, OIL PRESS RLF (PART OF 39, 47)	95	I (LB4)	1	3702366
	1.609	**VALVE**, OIL PRESS RLF (PART OF 39, 47)	96–99	I (L35)	1	3702366
44.	1.609	**SPRING**, OIL PRESS RLF VLV	85–93	I (LB4)	1	10044435

	1.609	**SPRING**, OIL PRESS RLF VLV ..	95	I (LB4)	1	10044435
	1.609	**SPRING**, OIL PRESS RLF VLV ..	96–99	I (L35)	1	10044435
45.	1.723	**BOLT**, O/PMP CVR (PART OF 39) (8.900) (AC–DELCO #11503782)	85–93	I (LB4)	2	11503782
	1.723	**BOLT**, O/PMP CVR (PART OF 39) (HFH M6X1X20 9.8 PZOR) (8.900) (AC–DELCO #11508600)	85–93	I (LB4)	2	11508600
	1.723	**BOLT**, O/PMP CVR (PART OF 39) (8.900) (AC–DELCO #11503782)	95–96	I (LB4)	2	11503782
	1.723	**BOLT**, O/PMP CVR (PART OF 39) (HFH M6X1X20 9.8 PZOR) (8.900) (AC–DELCO #11508600)	95	I (LB4)	2	11508600
	1.723	**BOLT**, O/PMP CVR (PART OF 39) (HFH M6X1X20 9.8 PZOR) (8.900) (AC–DELCO #11508600)	96–99	I (L35)	2	11508600
46.	1.609	**PIN**, OIL PRESS RLF VLV SPR ST (PART OF 39, 47)	85–93	I (LB4)	1	838839
	1.609	**PIN**, OIL PRESS RLF VLV SPR ST (PART OF 39, 47)	95	I (LB4)	1	838839
	1.609	**PIN**, OIL PRESS RLF VLV SPR ST (PART OF 39, 47)	96–99	I (L35)	1	838839
47.	1.723	**COVER**, O/PMP (PART OF 39) (INCL 42, 43, 44, 46) (.620 DIA. TUBE)	85–92	I (LB4)	1	14046552
	1.723	**COVER**, O/PMP (PART OF 39) (INCL 42, 43, 44, 46) (INCLS COVER, PLUGS, SPRING&VALVE)	95	I (LB4)	1	10168528
	1.723	**COVER**, O/PMP (PART OF 39) (INCL 42, 43, 44, 46) (INCLS COVER, PLUGS, SPRING&VALVE)	96–99	I (L35)	1	10168528
	1.723	**COVER**, O/PMP (*1, 2, 3, 6, 8, 10, 11, 12, 13, 14, 15, 17, 18, 24, 27) (PART OF 39) (INCL 42, 43, 44, 46) (.620 DIA. TUBE)	93	I (LB4)	1	14046552
	1.723	**COVER**, O/PMP (*5) (PART OF 39) (INCL 42, 43, 44, 46) (INCLS COVER, PLUGS, SPRING&VALVE)	93	I (LB4)	1	10168528
48.	1.855	**FITTING**, OIL FLTR	94–95	I (LB4)	1	14081300
	1.855	**FITTING**, OIL FLTR (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12)	90–92	I (LB4)	1	14081300
	1.855	**FITTING**, OIL FLTR (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12, 14, 15, 17, 18, 24, 27)	93	I (LB4)	1	14081300
	1.855	**FITTING**, OIL FLTR (*13)	91	I (LB4)	1	14081300
	1.855	**FITTING**, OIL FLTR (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24)	90	I (LB4)	1	14081300
	1.855	**FITTING**, OIL FLTR (*17, 18, 22, 24, 27, 28, 31, 32)	96–99	I (L35)	1	14081300
	1.855	**FITTING**, OIL FLTR (*4, 7)	90–92	I (LB4)	1	14081300
49.	1.836	**FILTER**, OIL (PF52) (INCORPORATES ANTI–DRAINBACK FEATURE) (*5) (PF52) (AC–DELCO #PF52)	93	I (LB4)	1	25171377

	1.836	**FILTER**, OIL (PF52) (INCORPORATES ANTI–DRAINBACK FEATURE) (PF52) (AC–DELCO #PF52) ...	94–95	I (LB4)	1	25171377
	1.836	**FILTER**, OIL (PF52) (INCORPORATES ANTI–DRAINBACK FEATURE) (PF52) (AC–DELCO #PF52) (*17, 18, 22, 24, 27, 28, 31, 32) .	96–99	I (L35)	1	25171377
50.	0.673	**GEAR**, FLYWHL RING (PART OF 108)	94–95	I (LB4)	1	460583
	0.673	**GEAR**, FLYWHL RING (PART OF 108)	96–97	I (L35)	1	460583
	0.673	**GEAR**, FLYWHL RING (*1, 6) (PART OF 108) (153 TEETH)	90–93	I (LB4)	1	3991407
	0.673	**GEAR**, FLYWHL RING (*13, 14, 15, 17, 18, 24, 27) (PART OF 108)	93	I (LB4)	1	460583
	0.673	**GEAR**, FLYWHL RING (*15, 16, 17, 18, 19, 20, 23, 24) (PART OF 108)	90	I (LB4)	1	460583
	0.673	**GEAR**, FLYWHL RING (*17, 18, 22, 24, 27) (PART OF 108)	98–99	I (L35)	1	460583
	0.673	**GEAR**, FLYWHL RING (*2, 3, 5, 8, 9, 10, 11, 12) (PART OF 108) ...	90–93	I (LB4)	1	460583
	0.673	**GEAR**, FLYWHL RING (*21, 22) (PART OF 108)	90	I (LB4)	1	3991407
	0.673	**GEAR**, FLYWHL RING (*4, 7) (PART OF 108)	90–92	I (LB4)	1	460583
51.	0.669	**WEIGHT**, FLYWHL (PIN GROOVE) (8.940)	85–95	I (LB4)	AR	274584
	0.669	**WEIGHT**, FLYWHL (PIN GROOVE) (8.940)	96–99	I (L35)	AR	274584
52.	0.669	**BOLT**, FLYWHL (*1, 2, 3, 5, 6, 8, 9, 11, 12) (7/16–20X.97)	90–93	I (LB4)	6	12337973
	0.669	**BOLT**, FLYWHL (*10) (7/16–20X.7) (0.685)	90–93	I (LB4)	6	14088764
	0.669	**BOLT**, FLYWHL (*13) (7/16–20X.7) (0.685)	91	I (LB4)	6	14088764
	0.669	**BOLT**, FLYWHL (*13) (7/16–20X.7) (0.685)	93	I (LB4)	6	14088764
	0.669	**BOLT**, FLYWHL (*13, 28, 32) (7/16–20X.7) (0.685)	96–99	I (L35)	6	14088764
	0.669	**BOLT**, FLYWHL (*14, 15, 17, 18, 24, 27) (7/16–20X.97)	93	I (LB4)	6	12337973
	0.669	**BOLT**, FLYWHL (*15, 16, 17, 18, 20, 21, 22, 23, 24)	90	I (LB4)	6	12337973
	0.669	**BOLT**, FLYWHL (*17, 18, 21, 24, 27) (7/16–20X.97)	95	I (LB4)	6	12337973
	0.669	**BOLT**, FLYWHL (*17, 18, 21, 24, 27, 28, 31) (7/16–20X.97)	94	I (LB4)	6	12337973
	0.669	**BOLT**, FLYWHL (*17, 18, 22, 24, 27, 31) (7/16–20X.97)	97–99	I (L35)	6	12337973
	0.669	**BOLT**, FLYWHL (*18, 23, 24, 27, 32) (7/16–20X.97)	96–97	I (L35)	6	12337973
	0.669	**BOLT**, FLYWHL (*19) (0.685)	90	I (LB4)	6	14088764
	0.669	**BOLT**, FLYWHL (*28, 31) (7/16–20X.7) (0.685)	95	I (LB4)	6	14088764
	0.669	**BOLT**, FLYWHL (*4, 7) (7/16–20X.97)	90–92	I (LB4)	6	12337973

53.	0.669	**PIN**, FLYWHL LOC (7/16 DIA. X 7/8)	85–95	I (LB4)	1	3701679
	0.669	**PIN**, FLYWHL LOC (7/16 DIA. X 7/8)	96–99	I (L35)	1	3701679
54.	0.137	**SEAL**, CR/SHF RR OIL (PART OF 71)	97–98	I (L35)	1	12554314
	0.137	**SEAL**, CR/SHF RR OIL (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12) (PART OF 71) (NORMAL ROTATION)	90–92	I (LB4)	1	10088158
	0.137	**SEAL**, CR/SHF RR OIL (*13) (PART OF 71) (NORMAL ROTATION)	91	I (LB4)	1	10088158
	0.137	**SEAL**, CR/SHF RR OIL (*15, 16) (PART OF 71) (OPPOSITE ROTATION)	90	I (LB4)	1	14096051
	0.137	**SEAL**, CR/SHF RR OIL (*17, 18, 19, 20, 21, 22, 23, 24) (PART OF 71) (NORMAL ROTATION)	90	I (LB4)	1	10088158
	0.137	**SEAL**, CR/SHF RR OIL (*17, 18, 22, 24, 27, 32) (PART OF 71)	99	I (L35)	1	12555769
	0.137	**SEAL**, CR/SHF RR OIL (*25) (PART OF 71) (NORMAL ROTATION)	85–86	I (LB4)	1	10088158
	0.137	**SEAL**, CR/SHF RR OIL (*26) (PART OF 71) (NORMAL ROTATION)	85–91	I (LB4)	1	10088158
	0.137	**SEAL**, CR/SHF RR OIL (*4, 7) (PART OF 71) (NORMAL ROTATION)	90–92	I (LB4)	1	10088158
	0.137	**SEAL**, CR/SHF RR OIL (NORMAL ROTATION) (PART OF 71)	93–95	I (LB4)	1	10088158
	0.137	**SEAL**, CR/SHF RR OIL (NORMAL ROTATION) (PART OF 71)	96	I (L35)	1	10088158
55.	0.646	**CRANKSHAFT**, (INCL 53) (USES SINGLE CRANKSHAFT KEY #14089209)	85–94	I (LB4)	1	10224877
	0.646	**CRANKSHAFT**, (INCL 53) (INCLS CRANKSHAFT & PIN)	95	I (LB4)	1	10224880
	0.646	**CRANKSHAFT**, (INCL 53) (INCLS CRANKSHAFT & PIN)	96–97	I (L35)	1	10224880
	0.646	**CRANKSHAFT**, (*17, 18, 22, 24, 27, 28, 32) (INCL 53) (INCLS CRANKSHAFT & PIN)	98	I (L35)	1	10224880
	0.646	**CRANKSHAFT**, (*28) (INCL 53) (INCLS CRANKSHAFT & PIN)	99	I (L35)	1	10224880
	0.646	**CRANKSHAFT**, (ENG (*17, 18, 22, 24, 27, 31, 32) (INCL 53)	99	I (L35)	1	12558256
56.	0.206	**PIN**, ENG FRT CVR LOC (1/4 X 5/8) (8.939)	85–94	I (LB4)	2	12554553
57.	0.207	**GASKET**, ENG FRT CVR (PART OF FRONT COVER ONLY NOT SERVICED SEPERATELY FOR 1995 – 96 – 97– 98–99– SEE ITEM #61)	95–99			
	0.207	**GASKET**, ENG FRT CVR	85–92	I (LB4)	1	10108435
	0.207	**GASKET**, ENG FRT CVR (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12, 13)	93	I (LB4)	1	10108435
	0.207	**GASKET**, ENG FRT CVR (*14, 15, 17, 18, 24, 27)	93	I (LB4)	1	10077694

	0.207	GASKET, ENG FRT CVR (*17, 18, 21, 24, 27, 28, 31)	94	I (LB4)	1	10077694
58.	0.659	BALANCER, CR/SHF (*1, 2, 3, 5, 6, 7, 8, 10, 11, 15, 16, 17, 18, 19, 20, 21, 22)	90	I (LB4)	1	14097259
	0.659	BALANCER, CR/SHF (*1, 2, 3, 5, 6, 8, 10, 11)	92–93	I (LB4)	1	14097259
	0.659	BALANCER, CR/SHF (*13) (EXTERNAL)	91	I (LB4)	1	10172764
	0.659	BALANCER, CR/SHF (*13) (EXTERNAL)	93	I (LB4)	1	10172764
	0.659	BALANCER, CR/SHF (*13, 23) (EXTERNAL)	96–97	I (L35)	1	10224885
	0.659	BALANCER, CR/SHF (*14, 15, 17, 18, 24, 27) (ASM FOR ADDED INFOR) (MAY USE W/00274584 WEIGHT, CR/SHF BAL) (SEE ENGINE ASM MANUAL ASM FOR INFORMATION.)	93	I (LB4)	1	10222824
	0.659	BALANCER, CR/SHF (*17, 18, 21, 24, 27, 31)	95	I (LB4)	1	12553165
	0.659	BALANCER, CR/SHF (*17, 18, 22, 24, 27, 28, 31, 32)	96–99	I (L35)	1	12553165
	0.659	BALANCER, CR/SHF (*17, 18, 24, 27, 28) (ASM FOR ADDED INFOR) (MAY USE W/00274584 WEIGHT, CR/SHF BAL) (SEE ENGINE ASM MANUAL ASM FOR INFORMATION.)	94	I (LB4)	1	10222824
	0.659	BALANCER, CR/SHF (*23, 24)	90	I (LB4)	1	12551537
	0.659	BALANCER, CR/SHF (*25)	85–86	I (LB4)	1	10172764
	0.659	BALANCER, CR/SHF (*26)	85–91	I (LB4)	1	14097259
	0.659	BALANCER, CR/SHF (*28) (EXTERNAL)	95	I (LB4)	1	10172764
	0.659	BALANCER, CR/SHF (*4)	90–92	I (LB4)	1	12551537
	0.659	BALANCER, CR/SHF (*7)	92	I (LB4)	1	14097259
	0.659	BALANCER, CR/SHF (*9, 12)	90–93	I (LB4)	1	12551537
59.	0.056	STUD, CR/SHF BRG CAP (3/8–16X7/16–14X5 5/8) (*15, 16, 20)	90	I (LB4)		14087508
	0.056	STUD, CR/SHF BRG CAP (REPLACE INTER LH & RH AND LH INTER MAIN BRG CAP BOLTS W/STUD) (SEE 8) (3/8–16X7/16–14X5 5/8) (*11)	90–93	I (LB4)		14087508
60.	0.206	BOLT, ENG FRT CVR (1/4–20 X 1/2, 1/8 THD) (300M, PC) (8.900)	94	I (LB4)	10	9442895
	0.206	BOLT, ENG FRT CVR (HWH 1/4–20 THD SHLD LEN .41)	95	I (LB4)	3	10213293
	0.206	BOLT, ENG FRT CVR (HWH 1/4–20 THD SHLD LEN .41)	96–99	I (L35)	3	10213293
	0.206	BOLT, ENG FRT CVR (*1, 6, 14, 15) (8.900)	93	I (LB4)	1	9439930
	0.206	BOLT, ENG FRT CVR (*2, 3, 5, 8, 9, 10, 11, 12, 13, 17, 18, 24, 27) (1/4–20 X 1/2, 1/8 THD) (300M, PC) (8.900)	93	I (LB4)	10	9442895

	0.206	**BOLT**, ENG FRT CVR (CENTER OF COVER) (HWH 1/4–20 THD SHLD LEN .92)	95	I (LB4)	2	12551135
	0.206	**BOLT**, ENG FRT CVR (CENTER OF COVER) (HWH 1/4–20 THD SHLD LEN .92)	96–99	I (L35)	2	12551135
61.	0.206	**COVER**, ENG FRT (INCLS COVER, REINFORCEMENT, RETAINER, SEAL & SEALER) ...	94	I (LB4)	1	12550706
	0.206	**COVER**, ENG FRT (PLASTIC) (INCLS BOLTS, COVER, GROMMETS & SEAL) (FRT GASKET IS MOLDED TO COVER)	95	I (LB4)	1	12554557
	0.206	**COVER**, ENG FRT (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12) (LESS POINTER)	90–91	I (LB4)	1	10243967
	0.206	**COVER**, ENG FRT (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12) (W/WELDER POINTER)	92	I (LB4)	1	12513961
	0.206	**COVER**, ENG FRT (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12) (EXC SEAL, SEALER, RETAINER)	93	I (LB4)	1	10046160
	0.206	**COVER**, ENG FRT (*1, 6) (W/WELDER POINTER)	93	I (LB4)	1	12513961
	0.206	**COVER**, ENG FRT (*13, 17, 18, 19, 20, 21, 22, 23, 24)	90	I (LB4)	1	10243967
	0.206	**COVER**, ENG FRT (*13, 23) (GASKET MOLDED TO FRONT COVER) (INCLS BOLTS, COVER, GROMMET, INSERT & SEAL) ...	96–97	I (L35)	1	12554555
	0.206	**COVER**, ENG FRT (*14, 15) (METAL) (INCLS COVER, INDICATOR, REINF, RET, SEAL & SEALER)	93	I (LB4)	1	12523080
	0.206	**COVER**, ENG FRT (*14, 17, 18, 24, 27) (INCLS COVER, REINFORCEMENT, RETAINER, SEAL & SEALER)	93	I (LB4)	1	12550706
	0.206	**COVER**, ENG FRT (*15, 16)	90	I (LB4)	1	12513955
	0.206	**COVER**, ENG FRT (*2, 3, 5, 8, 9, 10, 11, 12) (LESS POINTER) (INCL CVR, SEAL, SEALER, RETAINER)	93	I (LB4)	1	10243967
	0.206	**COVER**, ENG FRT (*25) (W/WELDER POINTER)	85–86	I (LB4)	1	12513961
	0.206	**COVER**, ENG FRT (*26) (W/WELDER POINTER)	85–91	I (LB4)	1	12513961
	0.206	**COVER**, ENG FRT (*4, 7) (W/WELDER POINTER)	92	I (LB4)	1	12513961
	0.206	**COVER**, ENG FRT (USE W/12551788 STUD QTY 01, 10213294 GROMMET QTY 06, 12551135 BOLT QTY 02, 10213293 BOLT QTY 03.) (PLASTIC) (INCLS BOLTS, COVER, GROMMETS & SEAL) (FRT GASKET IS MOLDED TO COVER) (₹17, 18, 22, 24, 27, 28, 31, 32)	96–99	I (L35)	1	12554557

62.	0.662	KEY, CR/SHF BALR (LGTH–36.7 MM, WIDTH–4.77MM) (8.960) ..	93–95	I (LB4)	.....	1	14089209
	0.662	KEY, CR/SHF BALR	96–99	I (L35)	.....	1	12555691
	0.662	KEY, CR/SHF BALR (LGTH–36.7 MM, WIDTH–4.77MM) (8.960) ..	96	I (L35)	.....	1	14089209
	0.662	KEY, CR/SHF BALR (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12) (LGTH–36.7 MM, WIDTH–4.77MM) (8.960) ..	90–92	I (LB4)	.....	1	14089209
	0.662	KEY, CR/SHF BALR (*25) (8.960)	85–86	I (LB4)	.....	2	106751
	0.662	KEY, CR/SHF BALR (*26) (19.05MM X 4.75MM) (8.960) ...	85–91	I (LB4)	.....	2	106751
63.	0.096	BEARING KIT, CR/SHF (#1, 2, 3) (.001 U.S./STD)	85–95	I (LB4)	.....	3	12531215
	0.096	BEARING KIT, CR/SHF (#1, 2, 3) (STD) (STD) (INCLS BEARINGS) (*13, 17, 18, 22, 23, 24, 27, 28, 31, 32)	96–97	I (L35)	.....	3	12456510
	0.096	BEARING KIT, CR/SHF (#1, 2, 3) (STD) (STD)	85–95	I (LB4)	.....	3	10120990
	0.096	BEARING KIT, CR/SHF (#1, 2, 3) (.010 U.S.)	85–95	I (LB4)	.....	3	12329428
	0.096	BEARING KIT, CR/SHF (#1, 2, 3) (STD) (STD) (INCLS BEARINGS) (*17, 18, 22, 24, 27, 32)	98–99	I (L35)	.....	3	12456510
	0.096	BEARING KIT, CR/SHF (#1, 2, 3) (.001 U.S./STD)	96	I (L35)	.....	3	12456511
	0.096	BEARING KIT, CR/SHF (#1, 2, 3) (.010 U.S.)	96	I (L35)	.....	3	12456513
	0.096	BEARING KIT, CR/SHF (#1, 2, 3) (.020 U.S.)	96–99	I (L35)	.....	3	12456514
64.	0.096	BEARING KIT, CR/SHF (RR #4) (STD) (INCLS BEARINGS)	85–95	I (LB4)	.....	1	10120993
	0.096	BEARING KIT, CR/SHF (RR #4) (STD) (INCLS BEARINGS)	96	I (L35)	.....	1	10120993
	0.096	BEARING KIT, CR/SHF (RR #4) (.001 U.S./STD) (INCLS BEARINGS)	85–95	I (LB4)	.....	1	12528826
	0.096	BEARING KIT, CR/SHF (RR #4) (.001 U.S./STD) (INCLS BEARINGS)	96–99	I (L35)	.....	1	12528826
	0.096	BEARING KIT, CR/SHF (RR #4) (.010 U.S./STD FLG)	85–95	I (LB4)	.....	1	12329793
	0.096	BEARING KIT, CR/SHF (RR #4) (.010 U.S./STD FLG)	96	I (L35)	.....	1	12329793
	0.096	BEARING KIT, CR/SHF (RR #4) (.020 U.S./STD FLG)	85–95	I (LB4)	.....	1	12329794
	0.096	BEARING KIT, CR/SHF (RR #4) (.020 U.S./STD FLG)	96	I (L35)	.....	1	12329794
	0.096	BEARING KIT, CR/SHF (RR #4) (.002 U.S./STD FLG) (.002 U.S.) .	85–95	I (LB4)	.....	1	12329792
	0.096	BEARING KIT, CR/SHF (RR #4) (.002 U.S./STD FLG) (.002 U.S.) .	96	I (L35)	.....	1	12329792
65.	0.056	BOLT, CR/SHF BRG CAP (7/16–14X3 11/32)	85–95	I (LB4)	.....	10	3932480
	0.056	BOLT, CR/SHF BRG CAP (*13, 17, 18, 22, 23, 24, 27, 28, 31, 32.) (7/16–14X3 11/32)	96–99	I (L35)	.....	10	3932480
66.	N.S.	CAP, CR/SHF BRG	85–95	I (LB4)	.....		
	N.S.	CAP, CR/SHF BRG	86–99	I (L35)	.....		

67.	0.137	**GASKET**, CR/SHF RR OIL SEAL HSG	85-95	I (LB4)	1	12555714
	0.137	**GASKET**, CR/SHF RR OIL SEAL HSG	96-99	I (L35)	1	12555714
68.	0.137	**STUD**, CR/SHF RR OIL SEAL RET (5/16X18X1 43/64) (1.428)	85-95	I (LB4)	2	14080362
	0.137	**STUD**, CR/SHF RR OIL SEAL RET (1/4-20 X 2.18)	85-95	I (LB4)	1	14101058
	0.137	**STUD**, CR/SHF RR OIL SEAL RET (5/16-18X.60)	96-99	I (L35)	2	10218027
	0.137	**STUD**, CR/SHF RR OIL SEAL RET (1/4-20 X 2.18)	96-98	I (L35)	1	14101058
69.	0.137	**BOLT**, CR/SHF RR OIL SEAL HSG (1/4-20 X 7/8)	85-95	I (LB4)	2	14088561
	0.137	**BOLT**, CR/SHF RR OIL SEAL HSG (1/4-20 X 7/8)	96-99	I (L35)	2	14088561
70.	0.137	**BOLT**, CR/SHF RR OIL SEAL HSG (1/4-20 X 1 3/4)	85-95	I (LB4)	1	14088562
	0.137	**BOLT**, CR/SHF RR OIL SEAL HSG (1/4-20 X 1 3/4)	96-99	I (L35)	1	14088562
71.	0.137	**HOUSING**, CR/SHF RR OIL SEAL (INCL 54, 68) (0.659)	93-95	I (LB4)	1	14088556
	0.137	**HOUSING**, CR/SHF RR OIL SEAL (INCL 54, 68) (INCLS HOUSING, SEAL & STUDS)	97	I (L35)	1	12554335
	0.137	**HOUSING**, CR/SHF RR OIL SEAL (*12, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12) (INCL 54, 68) (0.659)	90-92	I (LB4)	1	14088556
	0.137	**HOUSING**, CR/SHF RR OIL SEAL (*13) (INCL 54, 68) (0.659)	91	I (LB4)	1	14088556
	0.137	**HOUSING**, CR/SHF RR OIL SEAL (*15, 16) (INCL 54, 68)	90	I (LB4)	1	14096052
	0.137	**HOUSING**, CR/SHF RR OIL SEAL (*17, 18, 19, 20, 21, 22, 23, 24) (INCL 54, 68) (0.659)	90	I (LB4)	1	14088556
	0.137	**HOUSING**, CR/SHF RR OIL SEAL (*17, 18, 22, 24, 27, 31, 32) (INCL 54, 68) (INCLS HOUSING, SEAL & STUDS)	98	I (L35)	1	12554335
	0.137	**HOUSING**, CR/SHF RR OIL SEAL (*17, 18, 22, 24, 27, 32) (INCL 54, 68) (INCLS HOUSING, SEAL & STUDS)	99	I (L35)	1	12555767
	0.137	**HOUSING**, CR/SHF RR OIL SEAL (*25) (INCL 54, 68) (0.659)	85-86	I (LB4)	1	14088556
	0.137	**HOUSING**, CR/SHF RR OIL SEAL (*26) (INCL 54, 68) (0.659)	85-91	I (LB4)	1	14088556
72.	1.430	**DEFLECTOR**, CR/SHF OIL (*11)	90-93	I (LB4)	1	12554816
	1.430	**DEFLECTOR**, CR/SHF OIL (*15, 16, 20)	90	I (LB4)	1	12554816
73.	0.648	**NUT**, CR/SHF OIL DFL (*11) (HEX 3/8-16) (8.917)	90-93	I (LB4)	5	9442946
	0.648	**NUT**, CR/SHF OIL DFL (*15, 16, 20) (8.917)	90	I (LB4)	5	9442946
74.	1.429	**GASKET**, OIL PAN	85-95	I (LB4)	1	14088514
	1.429	**GASKET**, OIL PAN	96-99	I (L35)	1	10220906
75.	1.426	**REINFORCEMENT**, OIL PAN	85-95	I (LB4)	LH	10172765
	1.426	**REINFORCEMENT**, OIL PAN	85-95	I (LB4)	RH	10172766
76.	1.426	**PAN**, OIL (INCL 77, 78) (W/PLUG)	94-95	I (LB4)	1	10054809

	1.426	PAN, OIL (*1, 2, 3, 5, 6, 8, 9, 12) (INCL 77, 78) (W/PLUG)	90–92	I (LB4)	1	10054809
	1.426	PAN, OIL (*10) (INCL 77, 78)	90–93	I (LB4)	1	10055755
	1.426	PAN, OIL (*11) (INCL 77, 78) (W/PLUG)	90–93	I (LB4)	1	10054809
	1.426	PAN, OIL (*13) (INCL 77, 78)	91	I (LB4)	1	14097275
	1.426	PAN, OIL (*13) (INCL 77, 78)	93	I (LB4)	1	14097275
	1.426	PAN, OIL (*13, 23, 28, 31, 32) (INCL 77, 78) (INCLS BAFFLE, BOLT, GKST, INSERT, PAN, PLUG & SEALER)	97	I (L35)	1	12559517
	1.426	PAN, OIL (*15, 16, 17, 18, 20, 21, 22, 23, 24) (INCL 77, 78)	90	I (LB4)	1	10054809
	1.426	PAN, OIL (*17, 18, 24, 27) (INCL 77, 78)	96–98	I (L35)	1	12557227
	1.426	PAN, OIL (*17, 18, 24, 27) (INCL 77, 78)	99	I (L35)	1	12556542
	1.426	PAN, OIL (*19) (INCL 77, 78)	90	I (LB4)	1	10055755
	1.426	PAN, OIL (*22, 32) (INCL 77, 78) (INCLS BAFFLE, BOLTS, GKST, INSERT, PAN, PLUG&SEALER)	99	I (L35)	1	12558216
	1.426	PAN, OIL (*23, 31, 32) (INCL 77, 78) (INCLS BAFFLE, BOLT, GKST, INSERT, PAN, PLUG & SEALER)	96–98	I (L35)	1	12559517
	1.426	PAN, OIL (*25) (INCL 77, 78)	85–86	I (LB4)	1	14097275
	1.426	PAN, OIL (*26) (INCL 77, 78)	85–91	I (LB4)	1	14097275
	1.426	PAN, OIL (*4, 7) (INCL 77, 78) (W/PLUG)	90–92	I (LB4)	1	10054809
77.	1.456	GASKET, OIL PAN DRN PLUG (PART OF 76)	85–95	I (LB4)	1	14090908
	1.456	SEAL, OIL PAN DRN PLUG (O RING)	97–99	I (L35)	1	3536966
	1.456	SEAL, OIL PAN DRN PLUG (O RING) (*23, 28, 31, 32)	96	I (L35)	1	3536966
78.	1.453	PLUG, OIL PAN DRN (1/2–20, 81LG)	85–95	I (LB4)	1	3921988
	1.453	PLUG, OIL PAN DRN (USE W/03536966 SEAL ONLY) (M12X1.75–6G THD, 44.45MM LNG, 15MM FLG HEX HD) (W/MAGNET & SEAL)	96–99	I (L35)	1	24100042
79.	1.428	BOLT, OIL PAN (HFH 1/4–20X.62 280M POR) (8.900)	93–95	I (LB4)	AR	9440033
	1.428	BOLT, OIL PAN (HFH 5/16–18X7/8)	96–99	I (L35)	10	9442908
	1.428	BOLT, OIL PAN (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12) (1/4–20 X 1/2, 1/8 THD) (300M, PC) (8.900)	90–92	I (LB4)	AR	9442895
	1.428	BOLT, OIL PAN (*1, 2, 3, 6, 8, 9, 10, 11, 13, 14, 15, 17, 18, 24, 27) (1/4–20 X 1/2, 1/8 THD) (300M, PC) (8.900)	93	I (LB4)	AR	9442895
	1.428	BOLT, OIL PAN (*13) (1/4–20 X 1/2, 1/8 THD) (300M, PC) (8.900)	91	I (LB4)	AR	9442895
	1.428	BOLT, OIL PAN (*13) (USED AT #1 LH & RH) (5/16–18 X 3/4, 300M) (HEX HD, STEEL) (8.900)	91	I (LB4)	3	9424877

	1.428	BOLT, OIL PAN (*13) (USED AT #1 LH & RH) (5/16–18 X 3/4, 300M) (HEX HD, STEEL) (8.900)	93	I (LB4)	3	9424877
	1.428	BOLT, OIL PAN (*13, 14, 15, 17, 18, 24, 27, 28) (1/4–20 X 1/2, 1/8 THD) (300M, PC) (8.900)	93–95	I (LB4)	AR	9442895
	1.428	BOLT, OIL PAN (*13, 14, 15, 17, 18, 24, 27, 28) (8.967)	93–95	I (LB4)	AR	9442985
	1.428	BOLT, OIL PAN (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) (8.900)	90	I (LB4)	AR	9442895
	1.428	BOLT, OIL PAN (*25) (8.900)	85–86	I (LB4)	10	9440033
	1.428	BOLT, OIL PAN (*26) (HFH 1/4–20X.62 280M POR) (8.900)	85–91	I (LB4)	10	9440033
80.	1.428	NUT, OIL PAN (5/16–18X20, 286M) (PC) (8.917)	93–95	I (LB4)	2	1359887
	1.428	NUT, OIL PAN (5/16–18 X 1/4, 286M) (POR) (8.915)	93–95	I (LB4)	2	12338130
	1.428	NUT, OIL PAN (5/16–18X20, 286M) (PC) (8.917)	96–99	I (L35)	2	1359887
	1.428	NUT, OIL PAN (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12) (5/16–18 X 1/4, 286M) (POR) (8.915)	90–92	I (LB4)	2	12338130
	1.428	NUT, OIL PAN (*13) (5/16–18 X 1/4, 286M) (POR) (8.915)	91	I (LB4)	2	12338130
	1.428	NUT, OIL PAN (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) (8.915)	90	I (LB4)	2	12338130
	1.428	NUT, OIL PAN (*25) (8.917)	85–86	I (LB4)	2	1359887
	1.428	NUT, OIL PAN (*26) (5/16–18X20, 286M) (PC) (8.917)	85–91	I (LB4)	2	1359887
81.	1.428	STUD, OIL PAN (5/16X18X1 43/64)	94–95	I (LB4)	2	14080362
	1.428	STUD, OIL PAN (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12) (5/16X18X1 43/64)	90–92	I (LB4)	2	14080362
	1.428	STUD, OIL PAN (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12, 14, 15, 17, 18, 24, 27) (5/16X18X1 43/64)	93	I (LB4)	2	14080362
	1.428	STUD, OIL PAN (*13) (5/16X18X1 43/64)	91	I (LB4)	2	14080362
	1.428	STUD, OIL PAN (*13) (14X20X.56–1/4X20X.50)	91	I (LB4)	4	14101092
	1.428	STUD, OIL PAN (*13) (14X20X.56–1/4X20X.50)	93	I (LB4)	4	14101092
	1.428	STUD, OIL PAN (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24)	90	I (LB4)	2	14080362
	1.428	STUD, OIL PAN (*25)	85–86	I (LB4)	4	14101092
	1.428	STUD, OIL PAN (*26) (14X20X.56–1/4X20X.50)	85–91	I (LB4)	4	14101092
82.	1.531	PLUG, ENG BLK OIL PRESS C/OVR HOLE (CUP .476X.31)	92	I (LB4)	1	14091563
	1.531	PLUG, ENG BLK OIL PRESS C/OVR HOLE (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24.)	90	I (LB4)	1	14091563
	1.531	PLUG, ENG BLK OIL PRESS C/OVR HOLE (*13) (CUP .476X.31)	91	I (LB4)	1	14091563
	1.531	PLUG, ENG BLK OIL PRESS C/OVR HOLE (*25)	85–86	I (LB4)	1	14091563

	1.531	**PLUG**, ENG BLK OIL PRESS C/OVR HOLE (*26) (CUP .476X.31)	85–91	I (LB4)	1	14091563
	1.531	**PLUG**, ENG BLK OIL GAL (8.971) (AC–DELCO #3889330)	85–95	I (LB4)	2	3889330
	1.531	**PLUG**, ENG BLK OIL GAL (HEX) (1/4–18X0.56) (STEEL) (USE T/W SEALER) (0.034)	85–95	I (LB4)	2	14084945
	1.531	**PLUG**, ENG BLK OIL GAL (AUTO DRAIN, INT SQ, 3/8–18X.42 PEOR STL) (8.971)	85–95	I (LB4)	1	14090911
	1.531	**PLUG**, ENG BLK OIL GAL (8.971) (AC–DELCO #3889330)	96	I (L35)	2	3889330
	1.531	**PLUG**, ENG BLK OIL GAL (CUP .626X.31)	96–99	I (L35)	1	10105918
	1.531	**PLUG**, ENG BLK OIL GAL (HEX) (1/4–18X0.56) (STEEL) (USE T/W SEALER) (0.034)	96	I (L35)	2	14084945
	1.531	**PLUG**, ENG BLK OIL GAL (AUTO DRAIN, INT SQ, 3/8–18X.42 PEOR STL) (8.971)	96–99	I (L35)	1	14090911
	1.531	**PLUG**, ENG BLK OIL GAL (*1, 6, 17, 18, 24, 27) (CUP .476X.31)	93	I (LB4)	1	14091563
	1.531	**PLUG**, ENG BLK OIL GAL (*13, 17, 18, 22, 23, 24, 27, 28, 31, 32) (CUP .476X.31)	96–99	I (L35)	1	14091563
	1.531	**PLUG**, ENG BLK OIL GAL (*17, 18, 24, 27, 28, 31, 32) (CUP .476X.31)	94–95	I (LB4)	1	14091563
83.	0.213	**SEAL**, CR/SHF FRT OIL	93–94	I (LB4)	1	10243247
	0.213	**SEAL**, CR/SHF FRT OIL (61.5MM O.D. W/PART NUMBER STAMPING)	95	I (LB4)	1	10128316
	0.213	**SEAL**, CR/SHF FRT OIL (61.5MM O.D. W/PART NUMBER STAMPING)	96–99	I (L35)	1	10128316
	0.213	**SEAL**, CR/SHF FRT OIL (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12)	90–92	I (LB4)	1	10243247
	0.213	**SEAL**, CR/SHF FRT OIL (*13)	91	I (LB4)	1	10243247
	0.213	**SEAL**, CR/SHF FRT OIL (*15)	90	I (LB4)	1	10243247
	0.213	**SEAL**, CR/SHF FRT OIL (*15)	90	I (LB4)	1	10244151
	0.213	**SEAL**, CR/SHF FRT OIL (*17, 18, 19, 20, 21, 22, 23, 24)	90	I (LB4)	1	10243247
	0.213	**SEAL**, CR/SHF FRT OIL (*25)	85–86	I (LB4)	1	10243247
	0.213	**SEAL**, CR/SHF FRT OIL (*26)	85–91	I (LB4)	1	10243247
	0.213	**SEAL**, CR/SHF FRT OIL (*4, 7)	90–92	I (LB4)	1	10243247
84.	0.137	**NUT**, CR/SHF RR OIL SEAL RET (HFH, 1/4–20X.234, 284M, 69K, POR, 240) (8.917)	85–95	I (LB4)	1	12337984
	0.137	**NUT**, CR/SHF RR OIL SEAL RET (HFH, 1/4–20X.234, 284M, 69K, POR, 240) (8.917)	96–99	I (L35)	1	12337984
86.	1.723	**WASHER**, O/PMP CVR (PART OF #39) (PART OF 39) (.263X.48X.072) (SPR LOCK) (8.931) (AC–DELCO #9439510)	85–93	I (LB4)	3	9439510

	1.723	**WASHER**, O/PMP CVR (PART OF #39) (PART OF 39) (.263X.48X.072) (SPR LOCK) (8.931) (AC–DELCO #9439510)	85–93	I (LB4)	3	9439510
87.	2.383	**PLUG**, KNOCK SEN HOLE (8.971) (AC–DELCO #3889330)	93–95	I (LB4)	2	3889330
	2.383	**PLUG**, KNOCK SEN HOLE (HEX) (1/4–18X0.56) (STEEL) (USE T/W SEALER) (0.034)	93–95	I (LB4)	2	14084945
	2.383	**PLUG**, KNOCK SEN HOLE (8.971) (AC–DELCO #3889330)	96–99	I (L35)	2	3889330
	2.383	**PLUG**, KNOCK SEN HOLE (HEX) (1/4–18X0.56) (STEEL) (USE T/W SEALER) (0.034)	96–99	I (L35)	2	14084945
	2.383	**PLUG**, KNOCK SEN HOLE (*1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12) (1/4–18 SHT THD, .41 L) (STEEL, ZP 4342M) (AUTO HEX SOC DRN) (8.921)	90–91	I (LB4)	1	444777
	2.383	**PLUG**, KNOCK SEN HOLE (*1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12)	92	I (LB4)	1	10105889
	2.383	**PLUG**, KNOCK SEN HOLE (*13) (1/4–18 SHT THD, .41 L) (STEEL, ZP 4342M) (AUTO HEX SOC DRN) (8.921)	91	I (LB4)	1	444777
	2.383	**PLUG**, KNOCK SEN HOLE (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) (8.921)	90	I (LB4)	1	444777
	2.383	**PLUG**, KNOCK SEN HOLE (*25) (8.971) (AC–DELCO #3889330)	85–86	I (LB4)	2	3889330
	2.383	**PLUG**, KNOCK SEN HOLE (*25) (0.034)	85–86	I (LB4)	2	14084945
	2.383	**PLUG**, KNOCK SEN HOLE (*26) (8.971) (AC–DELCO #3889330)	85–91	I (LB4)	2	3889330
	2.383	**PLUG**, KNOCK SEN HOLE (*26) (HEX) (1/4–18X0.56) (STEEL) (USE T/W SEALER) (0.034)	85–91	I (LB4)	2	14084945
	2.383	**PLUG**, KNOCK SEN HOLE (*5) (1/4–18 SHT THD, .41 L) (STEEL, ZP 4342M) (AUTO HEX SOC DRN) (8.921)	90–92	I (LB4)	1	444777
88.	0.659	**BOLT**, BAL SHF GR	94–95	I (LB4)	6	10105920
	0.659	**BOLT**, BAL SHF GR	96–99	I (L35)	6	10105920
	0.659	**BOLT**, BAL SHF GR (*14, 15, 17, 18, 24, 27)	93	I (LB4)	6	10105920
89.	N.S.	**GEAR**, BAL SHF DRVN (*14, 15, 17, 18, 24, 27, KIT1)	93	I (LB4)		
	N.S.	**GEAR**, BAL SHF DRVN (*17, 18, 24, 27, 28, 31, 32, KIT1)	94–95	I (LB4)		
	N.S.	**GEAR**, BAL SHF DRVN (*17, 18, 24, 27, 28, 31, 32, KIT1)	96–99	I (L35)		
90.	0.659	**RETAINER**, BAL SHF	94–95	I (LB4)	1	10105915
	0.659	**RETAINER**, BAL SHF	96–99	I (L35)	1	10105915
	0.659	**RETAINER**, BAL SHF (*14, 15, 17, 18, 24, 27)	93	I (LB4)	1	10105915
91.	N.S.	**BALANCER**, (INCL'S ITEM 121) (*14, 15)	93	I (LB4)	1	
	0.659	**BALANCER**, (INCL'S ITEM #121) (INTERNAL SHAFT)	94	I (LB4)	1	10224537

	0.659	**BALANCER**, (INCL'S ITEM #121) (INTERNAL)	95	I (LB4)	1	10224538
	0.659	**BALANCER**, (INCL'S ITEM #121) (INTERNAL)	96-99	I (L35)	1	10224538
	0.659	**BALANCER**, (*17, 18, 24, 27) (INCL'S ITEM #121) (INTERNAL SHAFT)	93	I (LB4)	1	10224537
92.	0.553	**PLUG**, BAL SHF RR BRG HOLE (CUP PLUG) (CUP W/CNTR INDENTATION, 53.48 O.D., 1010 STL, ZINC FLASH) (8.970)	94-95	I (LB4)	1	10241154
	0.553	**PLUG**, BAL SHF RR BRG HOLE (CUP PLUG) (CUP W/CNTR INDENTATION, 53.48 O.D., 1010 STL, ZINC FLASH) (8.970)	96-99	I (L35)	1	10241154
	0.553	**PLUG**, BAL SHF RR BRG HOLE (CUP PLUG) (*14, 15, 17, 18, 24, 27) (CUP W/CNTR INDENTATION, 53.48 O.D., 1010 STL, ZINC FLASH) (8.970)	93	I (LB4)	1	10241154
93.	N.S.	**BEARING**, BAL SHF RR (*14, 15)	93	I (LB4)	1	
	0.659	**BEARING KIT**, BAL SHF (INCL RR BRG, INST SHT & SPACER) (0.539)	94-95	I (LB4)	1	12521651
	0.659	**BEARING KIT**, BAL SHF (INCL RR BRG, INST SHT & SPACER) (0.539)	96-99	I (L35)	1	12521651
	0.659	**BEARING KIT**, BAL SHF (*17, 18, 24, 27) (INCL RR BRG, INST SHT & SPACER) (0.539)	93	I (LB4)	1	12521651
94.	0.659	**BOLT**, BAL SHF RET (HEX SOC TORQ DR 1/4-20X.5, .47 OD) (0.529)	94-95	I (LB4)	2	14093637
	0.659	**BOLT**, BAL SHF RET (HEX SOC TORQ DR 1/4-20X.5, .47 OD) (0.529)	96-99	I (L35)	2	14093637
	0.659	**BOLT**, BAL SHF RET (*14, 15, 17, 18, 24, 27) (HEX SOC TORQ DR 1/4-20X.5, .47 OD) (0.529)	93	I (LB4)	2	14093637
95.	N.S.	**GEAR**, BAL SHF DRV (*14, 15, 17, 18, 24, 27, KIT1)	93	I (LB4)		12513234
	N.S.	**GEAR**, BAL SHF DRV (SERVICED IN PAIRS) (*17, 18, 24, 27, 28, 31, 32, KIT1)	94-95	I (LB4)		
	N.S.	**GEAR**, BAL SHF DRV (SERVICED IN PAIRS) (*13, 17, 18, 23, 24, 27, 28, 31, 32, KIT1)	96-99	I (L35)		
96.	0.738	**STUD**, CM/SHF SPKT (*14, 15, 17, 18, 24, 27)	93	I (LB4)	1	14099045
97.	2.383	**SENSOR**, KNOCK (*13) (AC-DELCO #213-92)	91	I (LB4)	1	10456549
	2.383	**SENSOR**, KNOCK (*13) (AC-DELCO #213-92)	93	I (LB4)	1	10456549
	2.383	**SENSOR**, KNOCK (*13, 23) (1/4-18 THD) (BUTTON TYPE) (AC-DELCO #213-94)	96-97	I (L35)	1	10456075
98.	1.840	**GASKET**, OIL FLTR PIPE ADAP (*13) (ROUND WITH ONE FLAT SIDE, BELL SHAPED CUTOUT)	91	I (LB4)	1	10172754

	1.840	**GASKET**, OIL FLTR PIPE ADAP (*13) (ROUND WITH ONE FLAT SIDE, BELL SHAPED CUTOUT) .	93	I (LB4)	1	10172754
	1.840	**GASKET**, OIL FLTR PIPE ADAP (*13, 23) (ROUND WITH ONE FLAT SIDE, BELL SHAPED CUTOUT)	96–97	I (L35)	1	10172754
99.	1.840	**ADAPTER**, OIL FLTR PIPE (*13) (INCLS ADAPTER & SEAL)	85–93	I (LB4)	1	12558735
	1.840	**ADAPTER**, OIL FLTR PIPE (*13, 23) (INCLS ADAPTER & SEAL) ..	96–97	I (L35)	1	12558735
100.	1.840	**BOLT**, OIL FLTR ADAP (*13) (HFH, 5/16–18X3.25, .94 THD, 280M, PZOR) (8.913)	91–93	I (LB4)	2	9441916
	1.840	**BOLT**, OIL FLTR ADAP (*13, 23) (HFH, 5/16–18X3.25, .94 THD, 280M, PZOR) (8.913)	96–97	I (L35)	2	9441916
101.	1.844	**SEAL**, OIL FLTR ADAP (O RING) (*13) (2.536")	91	I (LB4)	1	10244496
	1.844	**SEAL**, OIL FLTR ADAP (O RING) (*13) (2.536")	93	I (LB4)	1	10244496
	1.844	**SEAL**, OIL FLTR ADAP (O RING) (*13, 23) (2.536")	96–97	I (L35)	1	10244496
102.	1.800	**SENSOR**, F/PMP SW & ENG OIL PRESS GA (*13) (3 TERMINALS:A, C, D) (AC–DELCO #D1808A)	93	I (LB4)	1	12555492
	1.800	**SENSOR**, F/PMP SW & ENG OIL PRESS GA (*13, 23) (1/4–18 THD SIZE) (3 TERM) (AC–DELCO #12553175)	96–97	I (L35)	1	12553175
103.	1.800	**FITTING**, F/PMP SW & ENG OIL PRESS GA SEN (*13) (SINGLE PORT 1/8–27 THD TO 1/4–18 THD 90 DEG (ZINC))	91	I (LB4)	1	12550760
	1.800	**FITTING**, F/PMP SW & ENG OIL PRESS GA SEN (*13) (SINGLE PORT 1/8–27 THD TO 1/4–18 THD 90 DEG (ZINC))	93	I (LB4)	1	12550760
104.	1.073	**PLUG**, W/PMP (*1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12) (SQ HD FILL & DRN 1/2–14X0.610.) (PLAIN) (8.971) .	90–93	I (LB4)	1	444746
	1.073	**PLUG**, W/PMP (*1, 2, 3, 4, 6, 8, 9, 10, 11, 12) (SQ HD 3/4–14 NPT 1.06 LGTH CAST IRON ZC) (8.971)	90–92	I (LB4)	AR	143936
	1.073	**PLUG**, W/PMP (*1, 2, 3, 6, 8, 9, 10, 11, 12, 14, 15, 17, 18, 24, 27) (SQ HD 3/4–14 NPT 1.06 LGTH CAST IRON ZC) (8.971)	93	I (LB4)	AR	143936
	1.073	**PLUG**, W/PMP (*1, 2, 3, 6, 8, 9, 10, 11, 12, 14, 15, 17, 18, 24, 27) (SQ HD FILL & DRN 1/2–14X0.610.) (PLAIN) (8.971) .	93	I (LB4)	1	444746
	1.073	**PLUG**, W/PMP (*15, 17, 18, 19, 20, 21, 22, 23, 24) (8.971)	90	I (LB4)	AR	143936
	1.073	**PLUG**, W/PMP (*15, 17, 18, 19, 20, 21, 22, 23, 24) (8.971)	90	I (LB4)	1	444746

					OM00–003D	
	1.073	**PLUG**, W/PMP (*17, 18, 24, 27) (SQ HD FILL & DRN 1/2–14X0.610.) (PLAIN) (8.971) .	94–99	I (LB4)	1	444746
	1.073	**PLUG**, W/PMP (*17, 18, 24, 27) (SQ HD 3/4–14 NPT 1.06 LGTH CAST IRON ZC) (8.971)	96–99	I (L35)	AR	143936
	1.073	**PLUG**, W/PMP (*17, 18, 24, 27) (SQ HD FILL & DRN 1/2–14X0.610.) (PLAIN) (8.971) .	96	I (L35)	1	444746
	1.073	**PLUG**, W/PMP (*17, 18, 27, 28) (SQ HD 3/4–14 NPT 1.06 LGTH CAST IRON ZC) (8.971)	94	I (LB4)	AR	143936
	1.073	**PLUG**, W/PMP (*4, 7) (SQ HD 3/4–14 NPT 1.06 LGTH CAST IRON ZC) (8.971)	90–92	I (LB4)	AR	143936
	1.073	**PLUG**, W/PMP (*4, 7) (SQ HD FILL & DRN 1/2–14X0.610.) (PLAIN) (8.971)	90–92	I (LB4)	1	444746
105.	1.079	**GASKET**, W/PMP CVR	93–95	I (LB4)	1	12555493
	1.079	**GASKET**, W/PMP CVR (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12)	90–93	I (LB4)	1	12555493
	1.079	**GASKET**, W/PMP CVR (*13)	91	I (LB4)	1	12555493
	1.079	**GASKET**, W/PMP CVR (*13, 17, 18, 22, 23, 24, 27, 28, 31, 32) ...	96–99	I (L35)	1	12555493
	1.079	**GASKET**, W/PMP CVR (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) ...	90	I (LB4)	1	12555493
	1.079	**GASKET**, W/PMP CVR (*4, 7) ...	90–92	I (LB4)	1	12555493
106.	8.932	**WASHER**, INT–EXT TOOTH LK6.5IDX22.80DX 1.42 THK ZC (W/PMP CVR) (PART OF 35) (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12) (AC–DELCO #11501045)	90–93	I (LB4)	AR	11501045
	8.932	**WASHER**, INT–EXT TOOTH LK6.5IDX22.80DX 1.42 THK ZC (W/PMP CVR) (PART OF 35) (*4, 7) (AC–DELCO #11501045) ...	90–92	I (LB4)	AR	11501045
	8.932	**WASHER**, INT–EXT TOOTH LK6.5IDX22.80DX 1.42 THK ZC (W/PMP CVR) (PART OF 35) (*15, 16) (AC–DELCO #11501045) ..	90	I (LB4)	AR	11501045
	8.932	**WASHER**, LK I .S. TOOTH (W/PMP CVR) (PART OF 35) (*17, 18, 19, 20, 21, 22, 23, 24)	90	I (LB4)	AR	120423
	8.932	**WASHER**, INT–EXT TOOTH LK6.5IDX22.80DX 1.42 THK ZC (W/PMP CVR) (PART OF 35) (*13) (AC–DELCO #11501045)	91	I (LB4)	AR	11501045
	8.932	**WASHER**, INT–EXT TOOTH LK6.5IDX22.80DX 1.42 THK ZC (W/PMP CVR) (PART OF 35) (*13, 14, 15, 17, 18, 24, 27, 28, 31, 32) (AC–DELCO #11501045)	93–95	I (LB4)	AR	11501045
	8.932	**WASHER**, INT–EXT TOOTH LK6.5IDX22.80DX 1.42 THK ZC (W/PMP CVR) (PART OF 35) (*17, 18, 24, 27, 28, 31, 32) (AC–DELCO #11501045)	96–99	I (L35)	AR	11501045

107.	1.073	BOLT, W/PMP CVR (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12.) (HEX HD DIM 3/8 280M PC 1/4–20X1/2) (8.900) (AC–DELCO #9442008) (PART OF 35)	90–93	I (LB4)	2	9442008
	1.073	BOLT, W/PMP CVR (*1, 2, 3, 6, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 24, 27) (1/4–20 X 1/2, 1/8 THD) (300M, PC) (8.900)	93	I (LB4)	10	9442895
	1.073	BOLT, W/PMP CVR (*13) (HEX HD DIM 3/8 280M PC 1/4–20X1/2) (8.900) (AC–DELCO #9442008) (PART OF 35)	91	I (LB4)	2	9442008
	1.073	BOLT, W/PMP CVR (*13, 14, 15, 17, 18, 24, 27, 28) (HEX HD DIM 3/8 280M PC 1/4–20X1/2) (8.900) (AC–DELCO #9442008) (PART OF 35)	93–94	I (LB4)	2	9442008
	1.073	BOLT, W/PMP CVR (*13, 22, 23, 28, 31, 32) (1/4–20 X 1/2, 1/8 THD) (300M, PC) (8.900)	96–99	I (L35)	10	9442895
	1.073	BOLT, W/PMP CVR (*15, 16) (8.900) (AC–DELCO #9442008) (PART OF 35)	90	I (LB4)	2	9442008
	1.073	BOLT, W/PMP CVR (*17, 18, 19, 20, 21, 22, 23, 24) (8.900)	90	I (LB4)	3	9440325
	1.073	BOLT, W/PMP CVR (*17, 18, 19, 20, 21, 22, 23, 24) (8.900) (AC–DELCO #9442008) (PART OF 35)	90	I (LB4)	2	9442008
	1.073	BOLT, W/PMP CVR (*17, 18, 24, 27, 28, 31, 32) (8.900)	94–95	I (LB4)	6	9439930
	1.073	BOLT, W/PMP CVR (*17, 18, 24, 27, 31, 32) (1/4–20 X 1/2, 1/8 THD) (300M, PC) (8.900)	94	I (LB4)	10	9442895
	1.073	BOLT, W/PMP CVR (*28, 31, 32) (1/4–20 X 1/2, 1/8 THD) (300M, PC) (8.900)	95	I (LB4)	10	9442895
	1.073	BOLT, W/PMP CVR (*4, 7) (HEX HD DIM 3/8 280M PC 1/4–20X1/2) (8.900) (AC–DELCO #9442008) (PART OF 35)	90–92	I (LB4)	2	9442008
108.	0.666	FLYWHEEL, ENG	94	I (LB4)	1	10222825
	0.666	FLYWHEEL, ENG (*1, 6)	90–93	I (LB4)	1	14096160
	0.666	FLYWHEEL, ENG (*10)	90–93	I (LB4)	1	14096047
	0.666	FLYWHEEL, ENG (*11)	90–93	I (LB4)	1	14096046
	0.666	FLYWHEEL, ENG (*13) (INCLS FLYWHEEL, RING GEAR, LABEL & WEIGHTS)	91	I (LB4)	1	14088761
	0.666	FLYWHEEL, ENG (*13) (INCLS FLYWHEEL, RING GEAR, LABEL & WEIGHTS)	93	I (LB4)	1	14088761
	0.666	FLYWHEEL, ENG (*13, 17, 18, 23, 24, 27, 31) (INCLS RING GEAR)	96–97	I (L35)	1	14103282
	0.666	FLYWHEEL, ENG (*14, 15, 17, 18, 24, 27)	93	I (LB4)	1	10222825

	0.666	**FLYWHEEL**, ENG (*15, 16, 20)	90	I (LB4)	1	14096046
	0.666	**FLYWHEEL**, ENG (*17, 18)	90	I (LB4)	1	14096021
	0.666	**FLYWHEEL**, ENG (*17, 18, 22, 24, 27) (INCLS RING GEAR)	99	I (L35)	1	12557586
	0.666	**FLYWHEEL**, ENG (*17, 18, 22, 24, 27, 31, 32) (INCLS RING GEAR)	98	I (L35)	1	14103282
	0.666	**FLYWHEEL**, ENG (*17, 18, 24, 27) (INCLS RING GEAR)	95	I (LB4)	1	14103282
	0.666	**FLYWHEEL**, ENG (*19)	90	I (LB4)	1	14096047
	0.666	**FLYWHEEL**, ENG (*2, 3, 5, 8)	90–93	I (LB4)	1	14096021
	0.666	**FLYWHEEL**, ENG (*21, 22)	90	I (LB4)	1	14096160
	0.666	**FLYWHEEL**, ENG (*23, 24)	90	I (LB4)	1	14103282
	0.666	**FLYWHEEL**, ENG (*28) (INCLS FLYWHEEL, RING GEAR, LABEL & WEIGHTS)	99	I (L35)	1	14088761
	0.666	**FLYWHEEL**, ENG (*28, 32) (INCLS FLYWHEEL, RING GEAR, LABEL & WEIGHTS)	95	I (LB4)	1	14088761
	0.666	**FLYWHEEL**, ENG (*28, 32) (INCLS FLYWHEEL, RING GEAR, LABEL & WEIGHTS)	96–97	I (L35)	1	14088761
	0.666	**FLYWHEEL**, ENG (*31) (INCLS RING GEAR)	95	I (LB4)	1	10105832
	0.666	**FLYWHEEL**, ENG (*31) (INCLS RING GEAR)	99	I (L35)	1	14103282
	0.666	**FLYWHEEL**, ENG (*32) (INCLS FLYWHEEL, RING GEAR, LABEL & WEIGHTS)	98	I (L35)	1	14088761
	0.666	**FLYWHEEL**, ENG (*32)	99	I (L35)	1	12557587
	0.666	**FLYWHEEL**, ENG (*4) (INCLS RING GEAR)	90–92	I (LB4)	1	14103282
	0.666	**FLYWHEEL**, ENG (*7)	90–92	I (LB4)	1	14096021
	0.666	**FLYWHEEL**, ENG (*9, 12) (INCLS RING GEAR)	90–93	I (LB4)	1	14103282
109.	0.034	**PLUG**, ENG BLK COOL DRN HOLE (8.971) (AC–DELCO #3889330)	96	I (L35)	2	3889330
	0.034	**PLUG**, ENG BLK COOL DRN HOLE (HEX) (1/4–18X0.56) (STEEL) (USE T/W SEALER)	96	I (L35)	2	14084945
	0.034	**PLUG**, ENG BLK COOL DRN HOLE (USED T/W 12346004 SEALANT) (8.971) (AC–DELCO #3889330)	85–95	I (LB4)	2	3889330
	0.034	**PLUG**, ENG BLK COOL DRN HOLE (USED T/W 12346004 SEALANT) (HEX) (1/4–18X0.56) (STEEL) (USE T/W SEALER)	85–95	I (LB4)	2	14084945
	0.034	**PLUG**, ENG BLK COOL DRN HOLE (USED T/W 12346004 SEALANT) (8.971) (AC–DELCO #3889330)	96–99	I (L35)	2	3889330
	0.034	**PLUG**, ENG BLK COOL DRN HOLE (USED T/W 12346004 SEALANT) (HEX) (1/4–18X0.56) (STEEL) (USE T/W SEALER)	96–99	I (L35)	2	14084945
110.	0.219	**INDICATOR**, TMG	94	I (LB4)	1	3991435

	0.219	**INDICATOR**, TMG (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)	90–92	I (LB4)	1	3991435
	0.219	**INDICATOR**, TMG (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12)	90–93	I (LB4)	1	3991435
	0.219	**INDICATOR**, TMG (*13)	91	I (LB4)	1	3991435
	0.219	**INDICATOR**, TMG (*14, 15, 17, 18, 24, 27, 28)	93–94	I (LB4)	1	3991435
	0.219	**INDICATOR**, TMG (*17, 18, 19, 20, 21, 22, 23, 24)	90	I (LB4)	1	3991435
	0.219	**INDICATOR**, TMG (*25)	85–86	I (LB4)	1	3991435
	0.219	**INDICATOR**, TMG (*26)	85–91	I (LB4)	1	3991435
111.	3.904	**GASKET**, F/PMP OPG CVR (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)	90–91	I (LB4)	1	14096609
	3.904	**GASKET**, F/PMP OPG CVR (*13)	91	I (LB4)	1	14096609
	3.904	**GASKET**, F/PMP OPG CVR (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24)	90	I (LB4)	1	14096609
112.	0.206	**STUD**, ENG FRT CVR	95–97	I (L35)	1	12551788
113.	0.206	**GROMMET**, ENG FRT CVR	96–99	I (L35)	6	10213294
114.	0.649	**BEARING**, CLU PILOT (*22) (NEEDLE) (19/32 ID 1 3/32 O.D.X 3/4)	98	I (L35)	1	14061685
	0.649	**BEARING**, CLU PILOT (*22, 31)	99	I (L35)	1	12557583
	0.649	**BEARING**, CLU PILOT (*23, 31) (NEEDLE) (19/32 ID 1 3/32 O.D.X 3/4)	96–97	I (L35)	1	14061685
115.	0.886	**PLATE**, CLU DRVN (*22) (LUK – 10 SPLINE – LT BLUE PAINT CODE) (10 SPLINE–P/N STAMPED ON PLATE–LT BLUE PAINT CODE)	98–99	I (L35)	1	15968246
	0.886	**PLATE**, CLU DRVN (*23, 31) (LUK – 10 SPLINE – LT BLUE PAINT CODE) (10 SPLINE–P/N STAMPED ON PLATE–LT BLUE PAINT CODE)	96–97	I (L35)	1	15968246
116.	0.859	**CLUTCH KIT**, ENG (W/PRESS PLT & DRVN PLT) (INCL #115)	95	I (LB4)	1	12375175
	0.859	**CLUTCH KIT**, ENG (W/PRESS PLT & DRVN PLT) (INCL #115)	96	I (L35)	1	12375175
	0.859	**CLUTCH KIT**, ENG (W/PRESS PLT & DRVN PLT) (*22) (INCL #115) (INCLS PRESS PLT & DRIVEN PLT) (W/DRVN PLATE)	98–99	I (L35)	1	12382578
	0.859	**CLUTCH KIT**, ENG (W/PRESS PLT & DRVN PLT) (*23, 31) (INCL #115) (INCLS PRESS PLT & DRIVEN PLT) (W/DRVN PLATE)	96–97	I (L35)	1	12382578
	0.859	**CLUTCH KIT**, ENG (W/PRESS PLT & DRVN PLT) (*31) (INCL #115)	94–96	I (LB4)	1	12375175
	0.859	**CLUTCH KIT**, ENG (W/PRESS PLT & DRVN PLT) (*31) (INCL #115) (W/DRVN PLATE)	96	I (L35)	1	12375175
	0.859	**PLATE**, CLU PRESS & DRVN (W/CVR) (INCL #115)	85–99			
117.	0.862	**WASHER**, CLU PRESS PLT (*22) (#10X18.30) (LK) (8.931) (WASHER, BOLT *M10 HOLE SIZE X 18.30 OD X .117 THK)	98–99	I (L35)	AR	11500046

	0.862	**WASHER**, CLU PRESS PLT (*23, 31) (#10X18.30) (LK) (8.931) (WASHER, BOLT *M10 HOLE SIZE X 18.30 OD X .117 THK) ...	96–97	I (L35)	AR	11500046
118.	0.862	**BOLT**, CLU PRESS PLT & CVR (*22, 31) (3/8–16X1)	98–99	I (L35)	6	838653
	0.862	**BOLT**, CLU PRESS PLT & CVR (*23, 31) (3/8–16X1)	96–97	I (L35)	6	838653
120.	0.539	**BEARING**, BAL SHF FRT (*13, 17, 18, 22, 23, 24, 27, 28, 31, 32)	96–99	I (L35)	1	10105908
	0.539	**BEARING**, BAL SHF FRT (*17, 18, 24, 27)	93	I (LB4)	1	10105908
	0.539	**BEARING**, BAL SHF FRT (*17, 18, 24, 27, 28, 31, 32)	94–95	I (LB4)	1	10105908
121.	N.S.	**PIN**, BAL SHF GR (PART OF ITEM #91)		I		
122.	1.516	**INDICATOR**, OIL LVL (*13, 23) .	96–97	I (L35)	1	10179270
123.	1.516	**TUBE**, OIL LVL IND (*13, 23) ...	96–97	I (L35)	1	10219921
124.	1.516	**BOLT**, OIL LVL IND TUBE (*13, 23) (8.900)	96–97	I (L35)	1	9439930
125.		**SEALER**, OIL LVL IND TUBE (8.800)	96–97	I (LB4)	AR	12346004

SERVICE KITS

1.	0.659	**GEAR KIT**, BAL SHF (INCLS DRIVE & DRIVEN GRS) (INCL 89, 95)	94–96	I (LB4)	1	12513234
	0.659	**GEAR KIT**, BAL SHF (INCLS DRIVE & DRIVEN GRS) (INCL 89, 95)	97–99	I (L35)	1	12513234
	0.659	**GEAR KIT**, BAL SHF (*14, 15, 17, 18, 24, 27) (INCLS DRIVE & DRIVEN GRS) (INCL 89, 95)	93	I (LB4)	1	12513234
2.	0.736	**GEAR KIT**, CM/SHF & CR/SHF (*15, 16) (OPP ROT) (0.728) (INCL 20, 21)	90	I (LB4) (4.3L OPP ROT MARINE ENG)	1	10174804

NOTE 1: 4.3L 262 CID MARINE ENG. 1990 14096747 (0KS); 1991 14097161 (1KS); 1992 14097211 (2KS); 1993 14097301 (3KS).

NOTE 2: 4.3L 262 CID MARINE ENG. 1990 14096745 (0KB); 1991 14097163 (1KB); 1992 14097212 (2KB); 1993 14097302 (3KB).

NOTE 3: 4.3L 262 CID MARINE ENG. 1990 14096746 (0KP); 1991 14097165 (1KP); 1992 14097213 (2KP); 1993 14097303 (3KP).

NOTE 4: 4.3L 262 CID MARINE ENG. 1990 14096976 (0KC); 1991 14097166 (1KC); 1992 14097216 (2KC).

NOTE 5: 4.3L 262 CID INDUSTRIAL ENG. 1990 14096749 (0KM); 1991 14097168 (1KM); 1992 14097218 (2KM); 1993 14097306 (3KM).

NOTE 6: 4.3L 262 CID MARINE ENG. 1990 14096748 (0KT); 1991 14097169 (1KT); 1992 14097219 (2KT); 1993 14097307 (3KT).

NOTE 7: 4.3L 262 CID MARINE ENG. 1990 14096750 (0KJ); 1991 14097171 (1KJ); 1992 14097220 (2KJ).

NOTE 8: 4.3L 262 CID MARINE ENG. 1990 14096752 (0KR); 1991 14097173 (1KR); 1992 14097221 (2KR); 1993 14097309 (3KR).

NOTE 9: 4.3L 262 CID MARINE ENG. 1990 14096975 (0KA); 1991 14097174 (1KA); 1992 14097222 (2KA); 1993 14097310 (3KA).

NOTE 10: 4.3L 262 CID MARINE ENG. 1990 14096751 (0KL); 1991 14097176 (1KL); 1992 14097223 (2KL); 1993 14097311 (3KL).

NOTE 11: 4.3L 262 CID MARINE ENG. 1990 14096753 (0KF); 1991 14097178 (1KF); 1992 14097228 (2KF); 1993 14097312 (3KF).

NOTE 12: 4.3L 262 CID MARINE ENG. 1990 14097265 (0KD); 1991 14097266 (1KD); 1992 14097217 (2KD); 1993 14097305 (3KD).

NOTE 13: 4.3L 262 CID MARINE ENG. 1991 14097271 (1LD); 1993 14097442 (3LD),1997 12555442 (7LD).

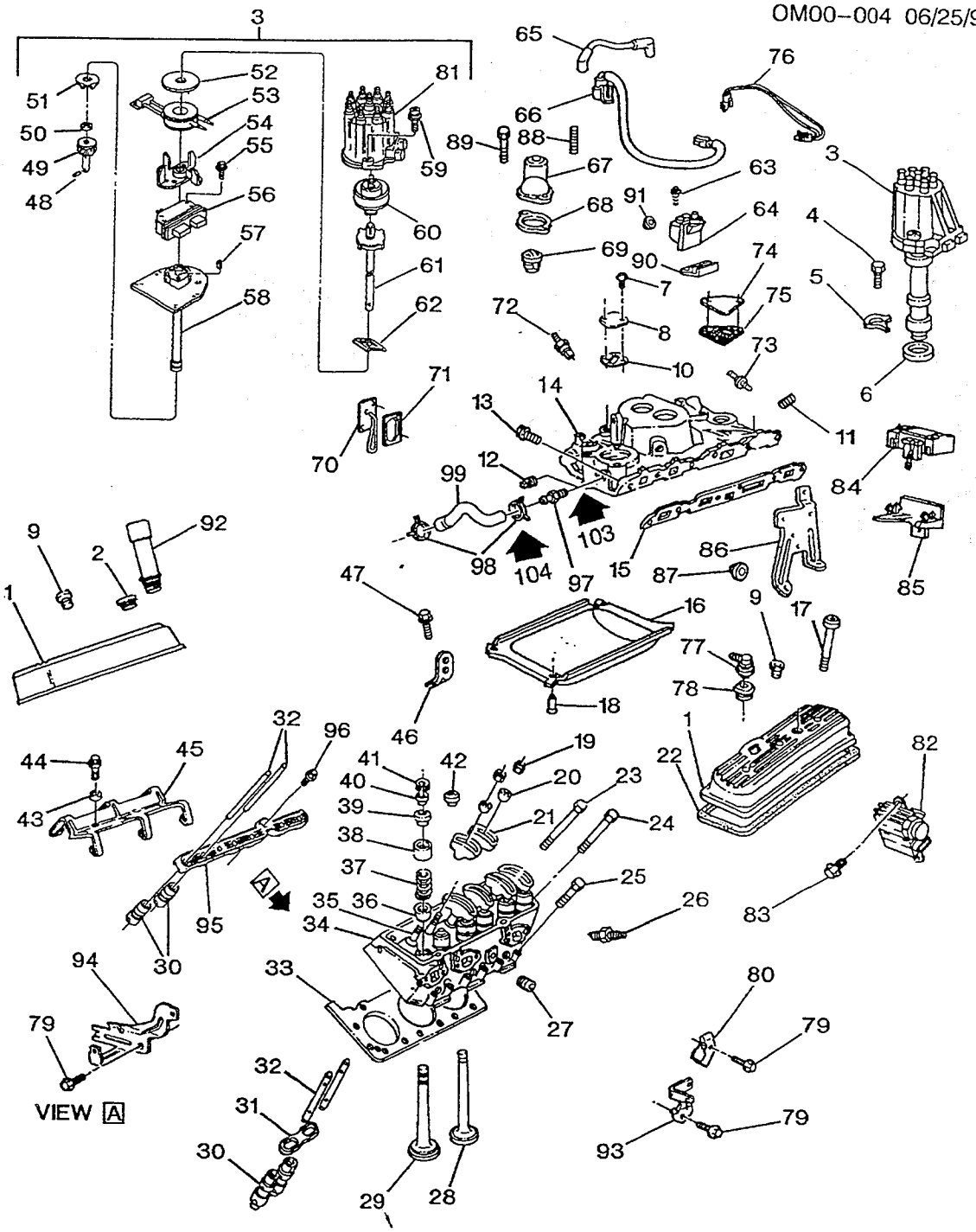
NOTE 14: 4.3L 262 CID MARINE ENG. 1993 14097473 (3LG).

NOTE 15: 4.3L 262 CID MARINE ENG. 1990 14096959 (0LH); 1993 14097474 (3LH).

NOTE 16: 4.3L 262 CID MARINE ENG. 1990 14096754 (0KH).
NOTE 17: 4.3L CID MARINE ENG.1990 14096953 (0LB),1993 10228377 (3LB),1994 10223771 (4LB),1995 12550043 (5LB),1996 12551081 (6LB),1997 12556152 (7LB),1998 12556159 (8LB),1999 1255616
NOTE 18: 4.3L CID MARINE ENG.1990 14096954 (0LJ),1993 10224523 (3LJ),1994 10223774 (4LJ),1995 12550044 (5LJ),1996 12552316 (6LJ),1997 12556153 (7LJ),1998 12556160 (8LJ),1999 1255616
NOTE 19: 4.3L 262 CID MARINE ENG. 1990 14096955 (0LL).
NOTE 20: 4.3L 262 CID MARINE ENG.. 1990 14096958 (0LF).
NOTE 21: 4.3L 262 CID MARINE ENG. 1990 14096960 (0LS).
NOTE 22: 4.3L 262 CID MARINE ENG. 1990 14096961 (0LT) ,1998 12550280 (8LT),1999 12560281 (9LT).
NOTE 23: 4.3L 262 CID MARINE ENG. 1990 14096978 (0LA),1996 12554440 (6LA),1997 12555441 (7LA).
NOTE 24: 4.3L MARINE ENG.1990 14096980 (0LC),1993 10228378 (3LC),1994 10235339 (4LC),1995 12550048 (5LC),1996 12552318 (6LC),1997 12556155 (7LC),1998 12556162 (8LC),1999 12556169 (9
NOTE 25: 4.3L 262 CID MARINE ENG. 1985–86 12517970.
NOTE 26: 4.3L 262 CID MARINE ENG. 1985–91 12517971.
NOTE 27: 4.3L 262 CID MARINE ENG.1993 10224525 (3LK),1994 10223779 (4LK),1995 12550047 (5LK),1996 12552317 (6LK),1997 12556154 (7LK),1998 12556161 (8LK),1999 12556168 (9LK)
NOTE 28: 4.3L 262 CID INDUSTRIAL. 1994 10223780 (4LM),1995 12550049 (5LM),1996 12552319 (6LM),1997 12556156 (7LM),1998 12556163 (8LM),1999 12556170(9LM).
NOTE 31: 4.3L 262 CID INDUSTRIAL. 1994 12551717 (4LS),1995 12551718 (5LS),1996 12552320 (6LS),1997 12556157 (7LS),1998 12556164 (8LS),1999 12556171 (9LS).
NOTE 32: 4.3L 262 CID INDUSTRIAL. 1994 12552399 (4LX), 1995 12552400 (5LX),1996 12552401 (6LX),1997 12556158 (7LX),1998 12556165 (8LX),1999 12556172 (9LX).

RPO DEFINITIONS

EP2 – MARINE(EP2)
LB4 – ENGINE,(4.3L),V6 90 DEG GAS TBI
L35 – ENGINE,4.3L(4.3W),V6,90 DEG



OM00-004D

1985-1999 ENGINE ASM-4.3L V6 PART 2

1.	0.386	COVER, VLV RKR ARM	85-90	I (LB4)	RH	14091554
	0.386	COVER, VLV RKR ARM	92-93	I (LB4)	RH	14091554
	0.386	COVER, VLV RKR ARM (INCLS BOLTS, COVER, DEFLECTOR, GKST, GROMS&RETAINER)	94-95	I (LB4)	RH	12554257
	0.386	COVER, VLV RKR ARM (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12)	90-93	I (LB4)	LH	10046193
	0.386	COVER, VLV RKR ARM (*13) ...	91	I (LB4)	LH	10046193

	0.386	COVER, VLV RKR ARM (*13, 14, 15, 17, 18, 24, 27)	93	I (LB4)		LH	10046193
	0.386	COVER, VLV RKR ARM (*13, 23) (INCLS BOLTS, COVER, DEFLECTOR, GKST, GROMS&RETAINER)	96–97	I (L35)		RH	12554256
	0.386	COVER, VLV RKR ARM (*13, 23) (INCLS BOLTS, COVER, DEFLECTOR, GKST, GROMS&RETAINER)	96–97	I (L35)		LH	12554257
	0.386	COVER, VLV RKR ARM (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24)	90	I (LB4)		LH	10046193
	0.386	COVER, VLV RKR ARM (*17, 18, 22, 24, 27, 28, 31, 32) (INCLS BOLTS, COVER, DEFLECTOR, GKST, GROMS&RETAINER)	96–99	I (L35)		RH	12554257
	0.386	COVER, VLV RKR ARM (*17, 18, 22, 24, 27, 28, 31, 32) (INCLS BOLTS, COVER, DEFLECTOR, GKST, GROMS&RETAINER)	98–99	I (L35)		LH	12554256
	0.386	COVER, VLV RKR ARM (*17, 18, 24, 27, 28) (INCLS BOLTS, COVER, DEFLECTOR, GKST, GROMS&RETAINER)	94–95	I (LB4)		LH	12554256
	0.386	COVER, VLV RKR ARM (*17, 18, 24, 27, 28, 31, 32.) (INCLS BOLTS, COVER, DEFLECTOR, GKST, GROMS&RETAINER)	96–97	I (L35)		LH	12554256
	0.386	COVER, VLV RKR ARM (*25)	85–86	I (LB4)		LH	14091560
	0.386	COVER, VLV RKR ARM (*26)	85–91	I (LB4)		LH	14091560
	0.386	COVER, VLV RKR ARM (*4, 7)	90–92	I (LB4)		LH	10046193
2.	1.758	CAP, OIL FIL (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12) (AC–DELCO #FC158)	90–93	I (LB4)		1	10108650
	1.758	CAP, OIL FIL (*13) (AC–DELCO #FC158)	90	I (LB4)		1	10108650
	1.758	CAP, OIL FIL (*13) (SAE 10W–30) (AC–DELCO #FC176)	93	I (LB4)		1	24504599
	1.758	CAP, OIL FIL (*13, 23) (INCLS SEAL) (AC–DELCO #FC177)	96–97	I (L35)		1	12551958
	1.758	CAP, OIL FIL (*14, 15, 17, 18, 24, 27) (AC–DELCO #FC158)	93	I (LB4)		1	10108650
	1.758	CAP, OIL FIL (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) (AC–DELCO #FC158)	90	I (LB4)		1	10108650
	1.758	CAP, OIL FIL (*17, 18, 22, 24, 27, 28, 31, 32) (AC–DELCO #FC162)	96–99	I (L35)		1	10108694
	1.758	CAP, OIL FIL (*17, 18, 24, 27, 28, 31, 32) (AC–DELCO #FC162)	94–95	I (LB4)		1	10108694
	1.758	CAP, OIL FIL (*25) (AC–DELCO #FC124)	85–86	I (LB4)		1	10110858
	1.758	CAP, OIL FIL (*26) (THREADED, NYLON) (AC–DELCO #FC180)	85–91	I (LB4)		1	12558300
	1.758	CAP, OIL FIL (*4, 7) (AC–DELCO #FC158)	90–92	I (LB4)		1	10108650
3.	2.361	DISTRIBUTOR, (*4, 7)	90–92	I (LB4)		1	14095800
	2.361	DISTRIBUTOR, (*2, 10)	90–91	I (LB4)		1	14095800

	2.361	DISTRIBUTOR, (INCL 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 81) (*15, 17, 18, 19, 20, 21, 22, 24)	90	I (LB4)			1103798
	N.S.	DISTRIBUTOR, (*5)	90–91	I (LB4)			
	N.S.	DISTRIBUTOR, (INCL 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 81) (*2, 10)	92–93	I (LB4)			
	N.S.	DISTRIBUTOR, (*5)	92	I (LB4)			
	N.S.	DISTRIBUTOR, (INCL 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 81) (*17, 24)	93	I (LB4)			
	2.361	DISTRIBUTOR, (INCL 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 81) (*17, 24)	94–96	I (LB4)			1103993
	2.361	DISTRIBUTOR, (INCL 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 81) (*17, 24, 28, 31, 32)	97–99	I (L35) (PROD 01103993)			1103993
	N.S.	DISTRIBUTOR, (INCL 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 81) (*28, 31, 32)	94–96	I (LB4)			
	N.S.	DISTRIBUTOR, (INCL 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 81) (*17, 24)	95	I (LB4)			
	DISCON	DISTRIBUTOR, (*15, 17, 18, 19, 20, 21, 22, 24) (INCL 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 81)	90	I (LB4)		1	1103798
	DISCON	DISTRIBUTOR, (*17, 24) (INCL 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 81)	93	I (LB4)		1	1103798
	DISCON	DISTRIBUTOR, (*17, 24) (INCL 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 81)	95	I (LB4)		1	1103798
	2.361	DISTRIBUTOR, (*2, 10)	90–91	I (LB4)		1	14095800
	DISCON	DISTRIBUTOR, (*2, 10) (INCL 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 81)	92–93	I (LB4)		1	1103798
	2.361	DISTRIBUTOR, (*4, 7)	90–92	I (LB4)		1	14095800
	DISCON	DISTRIBUTOR, (*5)	90–91	I (LB4)		1	1103665
	DISCON	DISTRIBUTOR, (*5)	92	I (LB4)		1	1103837
4.	2.363	BOLT, DISTR CLA (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12) (3/8–16X1–1/8) (8.900)	90–93	I (LB4)		1	14091544
	2.363	BOLT, DISTR CLA (*13, 14, 15, 17, 18, 24, 27) (3/8–16X1–1/8) (8.900)	93	I (LB4)		1	14091544
	2.363	BOLT, DISTR CLA (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) (8.900) (AC–DELCO #9424320)	90	I (LB4)		1	9424320
	2.363	BOLT, DISTR CLA (*17, 18, 22, 24, 27, 28, 31, 32) (3/8–16X1–1/8) (8.900)	96–99	I (L35)		1	14091544
	2.363	BOLT, DISTR CLA (*17, 18, 24, 27, 28, 31, 32) (3/8–16X1–1/8) (8.900)	94–95	I (LB4)		1	14091544

	2.363	**BOLT**, DISTR CLA (*4, 7) (3/8–16X1–1/8) (8.900)	90–92	I (LB4)	1	14091544
5.	2.363	**CLAMP**, DISTR	90–95	I (LB4)	1	10096197
	2.363	**CLAMP**, DISTR (*17, 18, 22, 24, 27, 28, 31, 32)	96–99	I (L35)	1	10096197
6.	2.363	**GASKET**, DISTR (AC–DELCO #10475923)	96	IS (L35)	1	10475923
	2.363	**GASKET**, DISTR (*13 KIT1, KIT2) (AC–DELCO #10108445)	93	I (LB4)	1	10108445
	2.363	**GASKET**, DISTR (*15, 17, 18, 19, 20, 21 KIT1, KIT2) (AC–DELCO #10108445)	90	I (LB4)	1	10108445
	2.363	**GASKET**, DISTR (*17, 22, 24, 28, 31, 32 KIT1, KIT2) (AC–DELCO #10108445)	96–99	I (L35)	1	10108445
	2.363	**GASKET**, DISTR (*17, 24, 28, 31, 32 KIT1, KIT2) (AC–DELCO #10108445)	94–95	I (LB4)	1	10108445
	2.363	**GASKET**, DISTR (*2, 5, 10 KIT1, KIT2) (AC–DELCO #10108445)	90–93	I (LB4)	1	10108445
	2.363	**GASKET**, DISTR (*4, 7 KIT1, KIT2) (AC–DELCO #10108445)	90–92	I (LB4)	1	10108445
7.	8.900	**BOLT**, (CARB CHOKE CVR) (*1, 2, 3, 12)	91–93	I (LB4)	2	9442184
	8.900	**BOLT**, (CARB CHOKE CVR) (*4)	91–92	I (LB4)	2	9442184
	8.900	**BOLT**, (CARB CHOKE CVR) (*14)	93	I (LB4)	2	9442184
	8.900	**BOLT**, (CARB CHOKE CVR) (*17, 18, 32)	94–95	I (LB4)	2	9442184
8.	3.750	**COVER**, CARB CHOKE (*1, 2, 3, 12)	91–93	I (LB4)	1	14097256
	3.750	**COVER**, CARB CHOKE (*14, 17, 24, 27)	93	I (LB4)	1	14097256
	3.750	**COVER**, CARB CHOKE (*17, 18, 32)	94–95	I (LB4)	1	14097256
	3.750	**COVER**, CARB CHOKE (*4)	91–92	I (LB4)	1	14097256
9.	0.413	**GROMMET**, VLV RKR ARM CVR BOLT	94–95	I (LB4)	6	10201395
	0.413	**GROMMET**, VLV RKR ARM CVR BOLT	96–99	I (L35)	6	10201395
10.	3.750	**GASKET**, CARB CHOKE CVR (*1, 2, 3, 12)	91–93	I (LB4)	1	14097286
	3.750	**GASKET**, CARB CHOKE CVR (*14, 17, 18, 24, 27)	93	I (LB4)	1	14097286
	3.750	**GASKET**, CARB CHOKE CVR (*17, 18, 32)	94–95	I (LB4)	1	14097286
	3.750	**GASKET**, CARB CHOKE CVR (*4)	91–92	I (LB4)	1	14097286
11.	8.971	**PLUG**, SQ SOCKRT 3/8–18 NPTF.47 (BRASS) (INT MANIF VAC HOLE) (*1, 2, 3, 6, 8, 9, 10, 11, 12) (AC–DELCO #444662)	90–93	I (LB4)	AR	444662
	8.971	**PLUG**, SQ SOCKRT 3/8–18 NPTF.47 (BRASS) (INT MANIF VAC HOLE) (*4, 7) (AC–DELCO #444662)	90–92	I (LB4)	AR	444662

	8.971	**PLUG**, SQ SOCKRT 3/8–18 NPTF.47 (BRASS) (INT MANIF VAC HOLE) (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) (AC–DELCO #444662)	90	I (LB4)	AR	444662
	8.971	**PLUG**, SQ SOCKRT 3/8–18 NPTF.47 (BRASS) (INT MANIF VAC HOLE) (*14, 15, 17, 18, 24, 27) (AC–DELCO #444662)	93	I (LB4)	AR	444662
	8.971	**PLUG**, SQ SOCKRT 3/8–18 NPTF.47 (BRASS) (INT MANIF VAC HOLE) (*17, 18, 24, 27, 28) (AC–DELCO #444662)	94–95	I (LB4)	AR	444662
	3.265	**PLUG**, INT MANIF VAC HOLE (INT MANIF VAC HOLE) (AUTO DRAIN, INT SQ, 3/8–18X.42 PEOR STL) (*17, 18, 24, 27, 28, 31, 32) (8.971)	94–95	I (LB4)	AR	14090911
	3.265	**PLUG**, INT MANIF VAC HOLE (INT MANIF VAC HOLE) (AUTO DRAIN, INT SQ, 3/8–18X.42 PEOR STL) (*17, 18, 24, 27, 28, 31, 32) (8.971)	96–99	I (L35)	AR	14090911
12.	8.971	**PLUG**, 1/2–14 X 39/64 (HTR HOSE NIP HOLE) (*1, 2, 3, 6, 8, 9, 10, 11, 12)	90–93	I (LB4)	AR	25522466
	8.971	**PLUG**, SQ HD FILL & DRN .500–14 PL (HTR HOSE NIP HOLE) (*1, 2, 3, 6, 8, 9, 10, 11, 12)	90–93	I (LB4)	AR	444746
	8.971	**PLUG**, 1/2–14 X 39/64 (HTR HOSE NIP HOLE) (*4, 5, 7)	90–92	I (LB4)	AR	25522466
	8.971	**PLUG**, SQ HD FILL & DRN .500–14 PL (HTR HOSE NIP HOLE) (*4, 7)	90–92	I (LB4)	AR	444746
	8.971	**PLUG**, 1/2–14 X 39/64 (HTR HOSE NIP HOLE) (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24)	90	I (LB4)	AR	25522466
	8.971	**PLUG**, 1/2–14 X 39/64 (HTR HOSE NIP HOLE) (PART OF 14) (*13)	91	I (LB4)	AR	25522466
	1.073	**PLUG**, HTR HOSE NIP HOLE (PART OF 14) (AUTO DRAIN, INT SQ, 3/8–18X.42 PEOR STL) (*13) (8.971)	91	I (LB4)	AR	14090911
	8.971	**PLUG**, 1/2–14 X 39/64 (HTR HOSE NIP HOLE) (*5, 13, 14, 15, 17, 18, 24, 27)	93	I (LB4)	AR	25522466
	8.971	**PLUG**, SQ HD FILL & DRN .500–14 PL (HTR HOSE NIP HOLE) (*14, 15, 17, 18, 24, 27)	93–99	I (LB4)	AR	444746
	1.073	**PLUG**, HTR HOSE NIP HOLE (HTR HOSE NIP HOLE) (HEADLESS SQ SOC, USE W/SEALER #1052080) (*17, 18, 24, 27, 31) (8.971)	94–95	I (LB4)	AR	25522466

	1.073	**PLUG**, HTR HOSE NIP HOLE (HTR HOSE NIP HOLE) (HEADLESS SQ SOC, USE W/SEALER #1052080) (*17, 18, 24, 27, 28, 31, 32) (8.971)	96-98	I (L35)	2	25522466
13.	3.275	**BOLT**, INT MANIF (3/8-16X1.25) (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10)	90-95	I (LB4)	AR	10198997
	3.275	**BOLT**, INT MANIF (3/8-16X1.25) (*11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	90-95	I (LB4)	AR	10198997
	3.275	**BOLT**, INT MANIF (3/8-16X1.25) (*21, 22, 23, 24, 25, 26, 27, 28, 31, 32)	90-95	I (LB4)	AR	10198997
	3.275	**BOLT**, INT MANIF (3/8-16X1-1/8) (8.900)	90-95	I (LB4)	8	14091544
	3.275	**BOLT**, INT MANIF (5/16-18X1.75 280M)	96-98	I (L35)	8	12550027
14.	3.265	**MANIFOLD**, INT (*1, 2, 3, 12, 14, 17, 18) (INCL 16, 18)	93	I (LB4)	1	14097288
	3.265	**MANIFOLD**, INT (*1, 2, 3, 4, 12) (INCL 16, 18)	90-92	I (LB4)	1	14097282
	3.265	**MANIFOLD**, INT (*13) (INCL 12)	91	I (LB4)	1	14097273
	3.265	**MANIFOLD**, INT (*13)	93	I (LB4)	1	14097273
	3.265	**MANIFOLD**, INT (*15, 16, 18, 19, 20, 22, 23) (INCL 16, 18)	90	I (LB4)	1	14097284
	3.265	**MANIFOLD**, INT (*17, 18, 22, 32)	96-99	I (L35)	1	12552422
	3.265	**MANIFOLD**, INT (*17, 18, 32) (INCL 16, 18)	94-95	I (LB4)	1	14097288
	3.265	**MANIFOLD**, INT (*17, 21, 24) (INCL 16, 18)	90	I (LB4)	1	14097282
	3.265	**MANIFOLD**, INT (*24, 27) (4BBL)	99	I (L35)	1	12550460
	3.265	**MANIFOLD**, INT (*24, 27, 28, 31) (4BBL)	96-98	I (L35)	1	12550460
	3.265	**MANIFOLD**, INT (*24, 27, 31) (INCL 16, 18)	94-95	I (LB4)	1	14097292
	3.265	**MANIFOLD**, INT (*28)	94-95	I (LB4)	1	10172785
	3.265	**MANIFOLD**, INT (*5) (INCL 16, 18)	90-91	I (LB4)	1	14096009
	3.265	**MANIFOLD**, INT (*5)	92	I (LB4)	1	12552430
	3.265	**MANIFOLD**, INT (*5)	93	I (LB4)	1	10172785
	3.265	**MANIFOLD**, INT (*6, 7, 8, 9, 10, 11, 15, 16, 18, 19, 20, 22, 23) (INCL 16, 18)	90-92	I (LB4)	1	14097284
	3.265	**MANIFOLD**, INT (*6, 8, 9, 10, 11, 15, 24, 27) (INCL 16, 18)	93	I (LB4)	1	14097292
15.	3.270	**GASKET**, INT MANIF	85-99	.....		
	3.270	**GASKET KIT**, INT MANIF (INCLS GASKETS & INST SHEETS)	96-99	I (L35)	1	12529196
	3.270	**GASKET KIT**, INT MANIF (*1) ..	93	I (LB4)	1	12520113
	3.270	**GASKET KIT**, INT MANIF (*1, 2, 3, 4, 5, 8, 12)	90-91	I (LB4)	1	10159422
	3.270	**GASKET KIT**, INT MANIF (*1, 2, 3, 4, 6, 8, 12)	92	I (LB4)	1	10159422
	3.270	**GASKET KIT**, INT MANIF (*13) .	91	I (LB4)	1	12509697
	3.270	**GASKET KIT**, INT MANIF (*13) .	93	I (LB4)	1	12509697
	DISCON	**GASKET KIT**, INT MANIF (*15, 16, 18, 19, 20, 22, 23)	90	I (LB4)	1	10159491
	3.270	**GASKET KIT**, INT MANIF (*17, 18, 24, 27, 31, 32)	94-95	I (LB4)	1	12510908

	3.270	GASKET KIT, INT MANIF (*2, 3, 8, 9, 10, 11, 12, 14, 15, 17, 18, 24, 27)	93	I (LB4)	1	12510908
	3.270	GASKET KIT, INT MANIF (*5) (0.289)	92	I (LB4)	1	12507990
	3.270	GASKET KIT, INT MANIF (*6)	93	I (LB4)	1	12520114
	DISCON	GASKET KIT, INT MANIF (*6, 7, 9, 10, 11)	90–91	I (LB4)	1	10159491
	3.270	GASKET KIT, INT MANIF (*7, 9, 10, 11)	92	I (LB4)	1	10159490
16.	3.265	SHIELD, INT MANIF OIL SPH (PART OF 14)	90–91	I (LB4)	1	461386
	3.265	SHIELD, INT MANIF OIL SPH (*1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12) (PART OF 14)	92	I (LB4)	1	461386
	3.265	SHIELD, INT MANIF OIL SPH (*1, 2, 3, 6, 8, 9, 10, 11, 12, 14, 15, 17, 18, 24, 27) (PART OF 14)	93	I (LB4)	1	14097443
	3.265	SHIELD, INT MANIF OIL SPH (*17, 18, 24, 27, 31, 32) (PART OF 14)	94–95	I (LB4)	1	14097443
17.	0.413	BOLT, VLV RKR ARM CVR	92–93	I (LB4)	12	10172743
	0.413	BOLT, VLV RKR ARM CVR (1/4–20X3.5, .55 THD, .8 OD, SHLDR, 280M MACH, DOGPT)	94–95	I (LB4)	6	10201396
	0.413	BOLT, VLV RKR ARM CVR (1/4–20X3.5, .55 THD, .8 OD, SHLDR, 280M MACH, DOGPT)	96–99	I (L35)	6	10201396
	0.413	BOLT, VLV RKR ARM CVR (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)	90–91	I (LB4)	12	12338092
	0.413	BOLT, VLV RKR ARM CVR (*13)	91	I (LB4)	12	12338092
	0.413	BOLT, VLV RKR ARM CVR (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24)	90	I (LB4)	12	12338092
	0.413	BOLT, VLV RKR ARM CVR (*25)	85–86	I (LB4)	12	10172743
	0.413	BOLT, VLV RKR ARM CVR (*26)	85–91	I (LB4)	12	10172743
18.	3.265	STUD, INT MANIF OIL SPH SHLD (*1, 2, 3, 6, 8, 9, 10, 11, 12) (PART OF 14) (3.601)	90–93	I (LB4)	4	10229247
	3.265	STUD, INT MANIF OIL SPH SHLD (*13) (PART OF 14) (3.601)	91	I (LB4)	4	10229247
	3.265	STUD, INT MANIF OIL SPH SHLD (*14, 15, 17, 18, 24, 27) (PART OF 14) (3.601)	93	I (LB4)	4	10229247
	3.265	STUD, INT MANIF OIL SPH SHLD (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) (PART OF 14) (3.601)	90	I (LB4)	4	10229247
	3.265	STUD, INT MANIF OIL SPH SHLD (*17, 18, 24, 27, 31, 32) (PART OF 14) (3.601)	94–95	I (LB4)	4	10229247
	3.265	STUD, INT MANIF OIL SPH SHLD (*28) (PART OF 14) (3/8–16X.78 BOTH ENDS) (3.275)	94–95	I (LB4)	4	14091545
	3.265	STUD, INT MANIF OIL SPH SHLD (*28) (PART OF 14) (3/8–16X.78 BOTH ENDS) (3.275)	96	I (L35)	4	14091545
	3.265	STUD, INT MANIF OIL SPH SHLD (*4, 7) (PART OF 14) (3.601)	90–92	I (LB4)	4	10229247

	3.265	**STUD,** INT MANIF OIL SPH SHLD (*5) (PART OF 14) (3/8–16X.78 BOTH ENDS) (3.275)	93	I (LB4)	4	14091545
19.	0.429	**NUT,** VLV RKR ARM (PART OF 21, 34) (13MM HEX, M8X1.0–6H) (NON–ADJUSTABLE) (PART OF 21, 34)	94–95	I (LB4)	12	14102542
	0.429	**NUT,** VLV RKR ARM (PART OF 21, 34) (13MM HEX, M8X1.0–6H) (NON–ADJUSTABLE) (PART OF 21, 34)	96–99	I (L35)	12	14102542
	0.429	**NUT,** VLV RKR ARM (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12) (PART OF 21, 34) (3/8–24) (PART OF 21, 34)	90–91	I (LB4)	16	465934
	0.429	**NUT,** VLV RKR ARM (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12) (ADJUSTABLE) (PART OF 21, 34) (HEX PREV TORQ, ALL MET, 10X1.0X11.2, 301M, CD) (PART OF 21, 34)	92–93	I (LB4)	16	477212
	0.429	**NUT,** VLV RKR ARM (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12) (PART OF 21, 34) (13MM HEX, M8X1.0–6H) (NON–ADJUSTABLE) (PART OF 21, 34)	92–93	I (LB4)	12	14102542
	0.429	**NUT,** VLV RKR ARM (*13) (PART OF 21, 34) (3/8–24) (PART OF 21, 34)	91	I (LB4)	16	465934
	0.429	**NUT,** VLV RKR ARM (*13) (PART OF 21, 34) (3/8–24) (PART OF 21, 34)	93	I (LB4)	16	465934
	0.429	**NUT,** VLV RKR ARM (*14, 15, 17, 18, 24, 27) (PART OF 21, 34) (13MM HEX, M8X1.0–6H) (NON–ADJUSTABLE) (PART OF 21, 34)	93	I (LB4)	12	14102542
	0.429	**NUT,** VLV RKR ARM (*14, 15, 17, 18, 24, 27) (ADJUSTABLE) (PART OF 21, 34) (HEX PREV TORQ, ALL MET, 10X1.0X11.2, 301M, CD) (PART OF 21, 34)	93	I (LB4)	16	477212
	0.429	**NUT,** VLV RKR ARM (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) (PART OF 21, 34) (PART OF 21, 34) ...	90	I (LB4)	16	465934
	0.429	**NUT,** VLV RKR ARM (*25) (PART OF 21, 34) (PART OF 21, 34) ...	85–86	I (LB4)	12	14102542
	0.429	**NUT,** VLV RKR ARM (*26) (PART OF 21, 34) (13MM HEX, M8X1.0–6H) (NON–ADJUSTABLE) (PART OF 21, 34)	85–91	I (LB4)	12	14102542
	0.429	**NUT,** VLV RKR ARM (*4, 7) (PART OF 21, 34) (13MM HEX, M8X1.0–6H) (NON–ADJUSTABLE) (PART OF 21, 34)	92	I (LB4)	12	14102542

	0.429	**NUT**, VLV RKR ARM (*4, 7) (ADJUSTABLE) (PART OF 21, 34) (HEX PREV TORQ, ALL MET, 10X1.0X11.2, 301M, CD) (PART OF 21, 34)	92	I (LB4)	16	477212
20.	N.S.	**BALL**, VLV RKR ARM (PART OF 21, 34)	85–95	I (LB4)		
21.	0.333	**ARM KIT**, VLV RKR (INCL 19, 20) (USED FOR CYL HEAD WITH PRESSED IN ROCKER ARM STUD (ADJUSTABLE) LASH) (ARM, BALL, NUT) (STD THREADS) (INCLS ARMS, BALLS & NUTS)	85–95	I (LB4)	AR	10089648
	0.333	**ARM KIT**, VLV RKR (INCL 19, 20) (USED FOR CYL HEAD WITH NET LASH (NON–ADJUSTABLE) (ARM, BALL, NUT)) (METRIC THREADS) (INCLS ARMS, BALL & NUT) (*17, 18, 24, 27, 28, 31, 32)	93–95	I (LB4)	AR	12522105
	0.333	**ARM KIT**, VLV RKR (INCL 19, 20) (USED FOR CYL HEAD WITH NET LASH (NON–ADJUSTABLE) (ARM, BALL, NUT)) (METRIC THREADS) (INCLS ARMS, BALL & NUT)	96–99	I (L35)	AR	12522105
22.	0.423	**GASKET**, VLV RKR ARM CVR	94–95	I (LB4)	2	10201397
	0.423	**GASKET**, VLV RKR ARM CVR	96–99	I (L35)	2	10201397
	0.423	**GASKET**, VLV RKR ARM CVR (KIT1)	85–93	I (LB4)	2	14081257
23.	0.293	**BOLT**, CYL HD (LONG) (LONG 7/16–14X3–51/64, 300M)	85–94	I (LB4)	10	10168525
	0.293	**BOLT**, CYL HD (LONG) (LONG 7/16–14X3–51/64, 300M)	95	I (LB4)	10	10168525
	0.293	**BOLT**, CYL HD (LONG) (LONG 7/16–14X3–51/64, 300M)	96–99	I (L35)	10	10168525
24.	0.293	**BOLT**, CYL HD (MEDIUM) (MEDIUM 7/16–14X3–1/16, 300M)	85–94	I (LB4)	4	10168526
	0.293	**BOLT**, CYL HD (MEDIUM) (MEDIUM 7/16–14X3–1/16, 300M)	95	I (LB4)	4	10168526
	0.293	**BOLT**, CYL HD (MEDIUM) (MEDIUM 7/16–14X3–1/16, 300M)	96–99	I (L35)	4	10168526
25.	0.293	**BOLT**, CYL HD (SHORT) (SHORT 7/16X1 3/4, .78 PZOR)	85–94	I (LB4)	10	10168527
	0.293	**BOLT**, CYL HD (SHORT) (SHORT 7/16X1 3/4, .78 PZOR)	95	I (LB4)	10	10168527
	0.293	**BOLT**, CYL HD (SHORT) (SHORT 7/16X1 3/4, .78 PZOR)	96–99	I (L35)	10	10168527
26.	2.270	**SPARK PLUG**, (TYPE CR43TS) (AC–DELCO #CR43TS)	90–92	I (LB4)	6	5614029
	2.270	**SPARK PLUG**, (CR43TSM) (AC–DELCO #CR43TSM)	94–95	I (LB4)	6	5614288
	2.270	**SPARK PLUG**, (*1, 2, 3, 6, 8, 9, 10, 11, 12) (AC–DELCO #MR43T)	90–93	I (LB4)	6	5613438

	2.270	**SPARK PLUG**, (*13) (AC–DELCO #CR42TS)	91	I (LB4)	6	5614226
	2.270	**SPARK PLUG**, (*13) (AC–DELCO #CR42TS)	93	I (LB4)	6	5614226
	2.270	**SPARK PLUG**, (*13, 23, 28, 31, 32) (41–932) (AC–DELCO #41–932)	96–97	I (L35)	6	25162556
	2.270	**SPARK PLUG**, (*14, 15, 17, 18, 24, 27) (AC–DELCO #MR43T) .	93	I (LB4)	6	5613438
	2.270	**SPARK PLUG**, (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) (AC–DELCO #MR43T)	90	I (LB4)	6	5613438
	2.270	**SPARK PLUG**, (*17, 18, 24, 27) (AC–DELCO #MR43T)	94–95	I (LB4)	6	5613438
	2.270	**SPARK PLUG**, (*17, 18, 24, 27) (AC–DELCO #MR43LTS)	96–99	I (L35)	6	5614210
	2.270	**SPARK PLUG**, (*22, 28, 31, 32) (41–932) (AC–DELCO #41–932)	99	I (L35)	6	25162556
	2.270	**SPARK PLUG**, (*22, 32) (41–932) (AC–DELCO #41–932)	98	I (L35)	6	25162556
	2.270	**SPARK PLUG**, (*4, 7) (AC–DELCO #MR43T)	90–92	I (LB4)	6	5613438
	2.270	**SPARK PLUG**, (*5)	93	I (LB4)	6	5614258
27.	0.293	**PLUG**, ENG COOL TEMP IND SW HOLE (*1, 2, 3, 6, 8, 9, 10, 11, 11, 12) (8.971) (AC–DELCO #444662)	90–93	I (LB4)	1	444662
	0.293	**PLUG**, ENG COOL TEMP IND SW HOLE (*13) (AUTO DRAIN, INT SQ, 3/8–18X.42 PEOR STL) (8.971)	91	I (LB4)	1	14090911
	0.293	**PLUG**, ENG COOL TEMP IND SW HOLE (*13) (AUTO DRAIN, INT SQ, 3/8–18X.42 PEOR STL) (8.971)	93	I (LB4)	1	14090911
	0.293	**PLUG**, ENG COOL TEMP IND SW HOLE (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) (8.971) (AC–DELCO #444662)	90	I (LB4)	1	444662
	0.293	**PLUG**, ENG COOL TEMP IND SW HOLE (*15, 17, 18, 24, 27) (8.971) (AC–DELCO #444662) .	93–95	I (LB4)	1	444662
	0.293	**PLUG**, ENG COOL TEMP IND SW HOLE (*17, 18, 24, 27) (8.971) (AC–DELCO #444662)	96–99	I (L35)	1	444662
	0.293	**PLUG**, ENG COOL TEMP IND SW HOLE (*25) (8.971)	85–86	I (LB4)	1	14090911
	0.293	**PLUG**, ENG COOL TEMP IND SW HOLE (*26) (AUTO DRAIN, INT SQ, 3/8–18X.42 PEOR STL) (8.971)	85–91	I (LB4)	1	14090911
	0.293	**PLUG**, ENG COOL TEMP IND SW HOLE (*4, 7) (8.971) (AC–DELCO #444662)	90–92	I (LB4)	1	444662

	0.293	PLUG, ENG COOL TEMP IND SW HOLE (*5) (AUTO DRAIN, INT SQ, 3/8–18X.42 PEOR STL) (8.971)	90–93	I (LB4)	1	14090911
28.	0.297	VALVE, EXH (.0305 O.S.)	85–92	I (LB4)	6	14033160
	0.297	VALVE, EXH (STD)	85–92	I (LB4)	6	14095451
	0.297	VALVE, EXH (.0035 O.S.)	85–92	I (LB4)	6	14095459
	0.297	VALVE, EXH (.0155 O.S.)	85–92	I (LB4)	6	14095460
	0.297	VALVE, EXH (STD)	96	I (L35)	6	12550909
	0.297	VALVE, EXH (.0305 O.S.)	96	I (L35)	6	12550913
	0.297	VALVE, EXH (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12, 14, 15, 17, 18, 24, 27) (STD)	93	I (LB4)	6	10144172
	0.297	VALVE, EXH (*13) (.0305 O.S.)	93	I (LB4)	6	14033160
	0.297	VALVE, EXH (*13) (STD)	93	I (LB4)	6	14095451
	0.297	VALVE, EXH (*13) (.0035 O.S.)	93	I (LB4)	6	14095459
	0.297	VALVE, EXH (*13) (.0155 O.S.)	93	I (LB4)	6	14095460
	0.297	VALVE, EXH (*13, 17, 18, 23, 24, 27, 28, 31, 32) (STD)	97–98	I (L35)	6	12550909
	0.297	VALVE, EXH (*13, 17, 18, 23, 24, 27, 28, 31, 32) (.0305 O.S.)	97–98	I (L35)	6	12550913
	0.297	VALVE, EXH (*17, 18, 24, 27, 28, 31, 32) (.0155 O.S.)	94–95	I (LB4)	6	10201145
	0.297	VALVE, EXH (*17, 18, 24, 27, 28, 32) (STD)	94–95	I (LB4)	6	10144172
	0.297	VALVE, EXH (*17, 18, 24, 27, 28, 32) (STD)	99	I (L35)	6	12550909
	0.297	VALVE, EXH (*17, 18, 24, 27, 28, 32) (.0305 O.S.)	99	I (L35)	6	12550913
	0.297	VALVE, EXH (*22, 31) (STD)	97–99	I (L35)	8	12552289
29.	0.296	VALVE, INT (STD)	96–99	I (L35)	6	10241743
	0.296	VALVE, INT (.0155 O.S.) (*25)	85–86	I (LB4)	4	14075643
	0.296	VALVE, INT (*1, 2, 3, 6, 8, 9, 10, 11, 12) (STD)	90–93	I (LB4)	6	10093027
	0.296	VALVE, INT (*1, 2, 3, 6, 8, 9, 10, 11, 12) (.0035 O.S.)	90–93	I (LB4)	6	10166151
	0.296	VALVE, INT (*1, 2, 3, 6, 8, 9, 10, 11, 12) (.0155 O.S.)	90–93	I (LB4)	6	10166152
	0.296	VALVE, INT (*1, 2, 3, 6, 8, 9, 10, 11, 12) (.0305 O.S.)	90–93	I (LB4)	6	14034080
	0.296	VALVE, INT (*13) (STD)	91	I (LB4)	6	14075641
	0.296	VALVE, INT (*13) (.0035 O.S.) (.0035 O.S.)	91	I (LB4)	6	14075642
	0.296	VALVE, INT (*13) (.0155 O.S.) (.0155 O.S.)	91	I (LB4)	6	14075643
	0.296	VALVE, INT (*13) (.0305 O.S.)	91	I (LB4)	6	14075644
	0.296	VALVE, INT (*13) (STD)	93	I (LB4)	6	14075641
	0.296	VALVE, INT (*13) (.0035 O.S.)	93	I (LB4)	6	14075642
	0.296	VALVE, INT (*13) (.0155 O.S.) (.0155 O.S.)	93	I (LB4)	6	14075643
	0.296	VALVE, INT (*13) (.0305 O.S.)	93	I (LB4)	6	14075644
	0.296	VALVE, INT (*13, 15) (.0035 O.S.)	93	I (LB4)	6	10166151
	0.296	VALVE, INT (*14, 15, 17, 18, 24, 27) (STD)	93	I (LB4)	6	10093027
	0.296	VALVE, INT (*14, 15, 17, 18, 24, 27) (.0035 O.S.)	93	I (LB4)	6	10166151
	0.296	VALVE, INT (*14, 15, 17, 18, 24, 27) (.0155 O.S.)	93	I (LB4)	6	10166152

	0.296	VALVE, INT (*14, 15, 17, 18, 24, 27) (.0305 O.S.)	93	I (LB4)	6	14034080
	0.296	VALVE, INT (*15, 16) (STD)	90	I (LB4)	6	14075641
	0.296	VALVE, INT (*15, 16) (.0035 O.S.)	90	I (LB4)	6	14075642
	0.296	VALVE, INT (*15, 16) (.0155 O.S.)	90	I (LB4)	6	14075643
	0.296	VALVE, INT (*15, 16) (.0305 O.S.)	90	I (LB4)	6	14075644
	0.296	VALVE, INT (*15, 17, 18, 19, 20, 21, 22, 23, 24)	90	I (LB4)	6	10166151
	0.296	VALVE, INT (*15, 17, 18, 19, 20, 21, 22, 23, 24)	90	I (LB4)	6	10166152
	0.296	VALVE, INT (*15, 17, 18, 19, 20, 21, 22, 23, 24)	90	I (LB4)	6	14034080
	0.296	VALVE, INT (*17, 18, 24, 27) (STD)	94–95	I (LB4)	6	10093027
	0.296	VALVE, INT (*17, 18, 24, 27) (.0035 O.S.)	94–95	I (LB4)	6	10166151
	0.296	VALVE, INT (*17, 18, 24, 27) (.0155 O.S.)	94–95	I (LB4)	6	10166152
	0.296	VALVE, INT (*17, 18, 24, 27) (.0305 O.S.) (.0305 O.S.)	94–95	I (LB4)	6	14034080
	0.296	VALVE, INT (*25) (.0305 O.S.)	85–86	I (LB4)	6	14075644
	0.296	VALVE, INT (*26) (STD)	85–91	I (LB4)	6	10093027
	0.296	VALVE, INT (*26) (.0035 O.S.)	85–91	I (LB4)	6	10166151
	0.296	VALVE, INT (*26) (.0155 O.S.)	85–91	I (LB4)	6	10166152
	0.296	VALVE, INT (*26) (.0305 O.S.)	85–91	I (LB4)	6	14034080
	0.296	VALVE, INT (*28, 31, 32) (STD)	94–95	I (LB4)	6	14075641
	0.296	VALVE, INT (*28, 31, 32) (.0035 O.S.)	94–95	I (LB4)	6	14075642
	0.296	VALVE, INT (*28, 31, 32) (.0155 O.S.) (.0155 O.S.)	94–95	I (LB4)	6	14075643
	0.296	VALVE, INT (*28, 31, 32) (.0305 O.S.)	94–95	I (LB4)	6	14075644
	0.296	VALVE, INT (*4, 7) (STD)	90–92	I (LB4)	6	10093027
	0.296	VALVE, INT (*4, 7) (.0035 O.S.)	90–92	I (LB4)	6	10166151
	0.296	VALVE, INT (*4, 7) (.0155 O.S.)	90–92	I (LB4)	6	10166152
	0.296	VALVE, INT (*4, 7) (.0305 O.S.)	90–92	I (LB4)	6	14034080
	0.296	VALVE, INT (*5) (STD)	90–93	I (LB4)	6	14075641
	0.296	VALVE, INT (*5) (.0035 O.S.)	90–93	I (LB4)	6	14075642
	0.296	VALVE, INT (*5) (.0155 O.S.) (.0155 O.S.)	90–93	I (LB4)	6	14075643
	0.296	VALVE, INT (*5) (.0305 O.S.)	90–93	I (LB4)	6	14075644
	0.296	VALVE, INT (STD) (*15, 17, 18, 19, 20, 21, 22, 23, 24)	90	I (LB4)	6	10093027
30.	0.459	LIFTER, VLV (AC–DELCO #HL105)	92–93	I (LB4)	12	5234670
	0.459	LIFTER, VLV (STD) (AC–DELCO #HL120)	96–99	I (L35)	12	17120090
	0.459	LIFTER, VLV (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12) (AC–DELCO #HL112)	90–91	I (LB4)	12	5234890
	0.459	LIFTER, VLV (*13) (AC–DELCO #HL112)	91	I (LB4)	12	5234890
	0.459	LIFTER, VLV (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24) (AC–DELCO #HL112)	90	I (LB4)	12	5234890
	0.459	LIFTER, VLV (*17, 18, 24, 27, 28, 31, 32) (AC–DELCO #HL105)	94–95	I (LB4)	12	5234670

	0.459	LIFTER, VLV (*25) (AC-DELCO #HL105) (ROLLER)	85-86	I (LB4)	12	5234670
	0.459	LIFTER, VLV (*26) (AC-DELCO #HL105) (ROLLER)	85-91	I (LB4)	12	5234670
31.	0.439	GUIDE, VLV LFTR	85-92	I (LB4)	8	12550002
	0.439	GUIDE, VLV LFTR (*1, 6, 13)	93	I (LB4)	8	12550002
32.	0.426	ROD, VLV PUSH (INCLS INSERTS)	93-95	I (LB4)	12	10046173
	0.426	ROD, VLV PUSH (INCLS INSERT)	96-99	I (L35)	12	10241740
33.	0.289	GASKET, CYL HD (*13 KIT1)	91	I (LB4)	1	14097272
	0.289	GASKET, CYL HD (*13 KIT1)	93	I (LB4)	1	14097272
	0.289	GASKET, CYL HD (*13, 17, 18, 22, 23, 24, 27, 28, 31, 32)	96-99	I (L35)	2	12552362
	0.289	GASKET, CYL HD (*14, 15, 17, 18, 24, 27 KIT1)	93	I (LB4)	1	12552362
	0.289	GASKET, CYL HD (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24 KIT1)	90	I (LB4) (OEM-OMC)	1	12552362
	0.289	GASKET, CYL HD (*25 KIT1)	85-86	I (LB4) (OEM-OMC)	1	14097272
	0.289	GASKET, CYL HD (*26 KIT1)	85-91	I (LB4) (OEM-OMC)	1	12552362
	0.289	GASKET, CYL HD (*28, 31, 32 KIT1)	94-95	I (LB4)	1	12552362
	0.289	GASKET, CYL HD (*4, 7 KIT1)	90-92	I (LB4) (OEM-OMC)	1	12552362
	0.289	GASKET, CYL HD (*5 KIT1)	90-93	I (LB4)	1	12552362
34.	0.269	HEAD, CYL (*13, 17, 18, 23, 24, 27, 28, 32.)	97-99	I (L35)	2	12533558
	0.269	HEAD, CYL (*17, 18, 24, 27, 28, 32)	96	I (L35)	2	12533558
	0.269	HEAD, CYL (*22, 31)	98-99	I (L35)	2	12557111
	0.269	HEAD, CYL (*31) (INCL EXH SEAT INSERT)	96	I (L35)	1	10235769
	0.269	HEAD, CYL (*31)	97-98	I (L35)	1	12557111
	0.269	HEAD, CYL (INCL 19, 20) (*17, 18, 24, 27, 28, 32) (W/STUDS)	94-95	I (LB4)	2	12522751
	0.269	HEAD, CYL (INCL 19, 20) (*31) (W/STUDS)	95	I (LB4)	2	12522752
	0.269	HEAD, CYL (W/STUDS) (INCL 19, 20)	85-92	I (LB4)	2	12520274
	0.269	HEAD, CYL (W/STUDS) (INCL 19, 20) (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 17, 18, 24, 27)	93	I (LB4)	2	12518291
	0.269	HEAD, CYL (W/STUDS) (INCL 19, 20) (*13)	93	I (LB4)	2	12520274
35.	0.429	STUD, VLV RKR ARM BALL (M10X1.5X22, M8X1.0X32, B:21 SHLD AND 9.3 THD)	96-99	I (L35)	12	10044997
	0.429	STUD, VLV RKR ARM BALL (.003" O.S.) (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)	90-91	I (LB4)	16	3814692
	0.429	STUD, VLV RKR ARM BALL (.003" O.S.) (*13)	91	I (LB4)	16	3814692
	0.429	STUD, VLV RKR ARM BALL (.003" O.S.) (*13)	93	I (LB4)	16	3814692
	0.429	STUD, VLV RKR ARM BALL (.003" O.S.) (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24)	90	I (LB4)	16	3814692
	0.429	STUD, VLV RKR ARM BALL (.013" O.S.) (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)	90-91	I (LB4)	16	3815892

	0.429	STUD, VLV RKR ARM BALL (.013" O.S.) (*13)	91	I (LB4)	16	3815892
	0.429	STUD, VLV RKR ARM BALL (.013" O.S.) (*13)	93	I (LB4)	16	3815892
	0.429	STUD, VLV RKR ARM BALL (.013" O.S.) (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24)	90	I (LB4)	16	3815892
	0.429	STUD, VLV RKR ARM BALL (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12) (M10X1.5X22, M8X1.0X32, B:21 SHLD AND 9.3 THD)	92–93	I (LB4)	12	10044997
	0.429	STUD, VLV RKR ARM BALL (*14, 15, 17, 18, 24, 27) (M10X1.5X22, M8X1.0X32, B:21 SHLD AND 9.3 THD)	93	I (LB4)	12	10044997
	0.429	STUD, VLV RKR ARM BALL (*17, 18, 24, 27, 31, 32) (M10X1.5X22, M8X1.0X32, B:21 SHLD AND 9.3 THD)	94–95	I (LB4)	12	10044997
	0.429	STUD, VLV RKR ARM BALL (ADJUSTABLE) (M10X1.5X9.9/M10X1X18) (*25, 33, 34, 35)	85–86	I (LB4)	12	476530
	0.429	STUD, VLV RKR ARM BALL (ADJUSTABLE) (M10X1.5X9.9/M10X1X18) (*26, 33, 34, 35)	85–86	I (LB4)	12	476530
	0.429	STUD, VLV RKR ARM BALL (ADJUSTABLE) (M10X1.5X9.9/M10X1X18) (*1, 2, 3, 5, 6, 8, 9, 10, 11, 12, 33, 34, 35) (M10X1.5X9.9/M10X1X18)	92–93	I (LB4)	12	476530
	0.429	STUD, VLV RKR ARM BALL (ADJUSTABLE) (M10X1.5X9.9/M10X1X18) (*4, 7, 33, 34, 35) (M10X1.5X9.9/M10X1X18)	92	I (LB4)	12	476530
	0.429	STUD, VLV RKR ARM BALL (ADJUSTABLE) (M10X1.5X9.9/M10X1X18) (*14, 15, 17, 18, 24, 27, 33, 34, 35) (M10X1.5X9.9/M10X1X18)	93	I (LB4)	12	476530
	0.429	STUD, VLV RKR ARM BALL (NON–ADJUSTABLE) (*26, 33, 34, 35) (M10X1.5X22, M8X1.0X32, B:21 SHLD AND 9.3 THD)	85–91	I (LB4)	12	10044997
	0.429	STUD, VLV RKR ARM BALL (NON–ADJUSTABLE) (*4, 7) (M10X1.5X22, M8X1.0X32, B:21 SHLD AND 9.3 THD)	92	I (LB4)	12	10044997
	0.429	STUD, VLV RKR ARM BALL (NON–ADJUSTABLE) (M10X1.5X22, M8X1.0X32, B:21 SHLD AND 9.3 THD) (*25, 33, 34, 35)	85–86	I (LB4)	12	10044997
36.	0.308	SEAL, INT VLV STEM OIL	96–99	I (L35)	6	10212810
	0.308	SEAL, INT VLV STEM OIL (*KIT1) (.003 O.S.) (W/RET)	85–95	I (LB4)	AR	460483

	0.308	SEAL, INT VLV STEM OIL (W/RET) (*KIT1) (.015 O.S.)	85–95	I (LB4)	AR	14037715
	0.308	SEAL, INT VLV STEM OIL (W/RET) (*KIT1) (.030 O.S.)	85–95	I (LB4)	AR	14037716
	0.308	SEAL, VLV STEM OIL (*KIT1) (O–RING TYPE)	85–95	I (LB4)	12	10214034
37.	0.303	SPRING, VLV	85–95	I (LB4)	12	3911068
	0.303	SPRING, VLV (W/O DMPR)	96–99	I (L35)	12	10212811
38.	0.308	SHIELD, VLV STEM OIL	85–95	I (LB4)	12	10007818
39.	0.308	SEAL, VLV STEM OIL (*KIT1) (O–RING TYPE)	85–95	I (LB4)	12	10214034
	0.308	SEAL, INT VLV STEM OIL	96–99	I (L35)	6	10212810
	0.308	SEAL, EXH VLV STEM OIL	96–99	I (L35)	6	10212810
	0.308	SEAL, EXH VLV STEM OIL	96–99	I (L35)	6	12558674
40.	0.309	ROTATOR, VLV	85–95	I (LB4)	6	14042575
41.	0.310	KEY, VLV STEM	85–95	I (LB4)	24	24503856
	0.310	KEY, VLV STEM	96–99	I (L35)	24	24503856
42.	0.309	CAP, VLV SPR	85–95	I (LB4)	AR	14003974
	0.309	CAP, VLV SPR	96–99	I (L35)	12	10241744
43.	0.480	WASHER, VLV LFTR GDE RET (PART OF 45) (5/16X47/64X1/16) (ZC) (8.929)	85–95	I (LB4)	AR	120386
	0.480	WASHER, VLV LFTR GDE RET (PART OF 45) (5/16X47/64X1/16) (ZC) (8.929)	96	I (L35)	AR	120386
	0.480	WASHER, VLV LFTR GDE RET (*17, 19, 20, 21, 23, 27, 32, 33, 34, 35, 36.) (PART OF 45) (5/16X47/64X1/16) (ZC) (8.929)	96–97	I (L35)	3	120386
44.	0.459	BOLT, VLV LFTR GDE (5/16–18 X 1.25) (8.900)	94–95	I (LB4)	4	9440227
	0.459	BOLT, VLV LFTR GDE (5/16–18X.63)	96–99	I (L35)	4	24501042
	0.459	BOLT, VLV LFTR GDE (*2, 3, 5, 8, 9, 10, 11, 14, 15, 17, 18, 24, 27) (5/16–18 X 1.25) (8.900)	93	I (LB4)	4	9440227
	0.459	BOLT, VLV LFTR GDE RET (HFH 5/16–18X.56 280M POR) (8.900)	92	I (LB4)	4	9440035
	0.459	BOLT, VLV LFTR GDE RET (*1, 6, 13) (HFH 5/16–18X.56 280M POR) (8.900)	93	I (LB4)	4	9440035
	0.459	BOLT, VLV LFTR GDE RET (*25, 26) (HFH 5/16–18X.56 280M POR) (8.900)	85–91	I (LB4)	4	9440035
	0.459	BOLT, VLV LFTR GDE RET (PART OF 45) (VLV LFTR GRE RET) (HEX, 5/16–18X.635, CLASS 3A, 0.492 THD, 300M PC, MACH) (0.669) (USED W/120386 WASHER)	85–93	I (LB4)	AR	24501365
45.	0.480	RETAINER, VLV LFTR GDE (*1, 6) (0.459)	90–93	I (LB4)	4	10046165
	0.480	RETAINER, VLV LFTR GDE (*13) (0.459)	91	I (LB4)	4	10046165
	0.480	RETAINER, VLV LFTR GDE (*13) (0.459)	93	I (LB4)	4	10105916
	0.480	RETAINER, VLV LFTR GDE (*2, 3, 4, 5, 7, 8, 9, 10, 11, 12) (0.459)	90–92	I (LB4)	4	10046165

	0.480	**RETAINER**, VLV LFTR GDE (*25) (0.459)	85–86	I (LB4)	4	10046165
	0.480	**RETAINER**, VLV LFTR GDE (*26) (0.459)	85–91	I (LB4)	4	10046165
46.	DISCON	**BRACKET**, ENG LIFT RR (*1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)	90–91	I (LB4)	1	3923243
	DISCON	**BRACKET**, ENG LIFT RR (*15, 16, 17, 18, 19, 20, 21, 22, 23, 24)	90	I (LB4)	1	3923243
47.	8.900	**BOLT**, HEX 3/8–16X1.12 280M PEOR FULL THD (ENG LIFT) (2.042)	85–92	I (LB4)	AR	9442339
48.	2.379	**PIN**, DISTR GR (*15, 17, 18, 19, 20, 21, 22, 24) (PART OF 3) (8.939) (AC–DELCO #456652)	90	I (LB4)	1	456652
	2.379	**PIN**, DISTR GR (*17, 22, 24, 32) (PART OF 3) (8.939) (AC–DELCO #456652)	99	I (L35)	1	456652
	2.379	**PIN**, DISTR GR (*17, 24) (PART OF 3) (8.939) (AC–DELCO #456652)	93–94	I (LB4)	1	456652
	2.379	**PIN**, DISTR GR (*17, 24, 28, 31, 32) (PART OF 3) (8.939) (AC–DELCO #456652)	95–98	I (LB4)	1	456652
	2.379	**PIN**, DISTR GR (*2, 10) (PART OF 3) (8.939) (AC–DELCO #456652)	92–93	I (LB4)	1	456652
	2.379	**PIN**, DISTR GR (*5) (PART OF 3) (8.939) (AC–DELCO #456652)	92	I (LB4)	1	456652
49.	2.374	**GEAR**, DISTR SHF (*15, 17, 18, 19, 20, 21, 22, 24) (PART OF 3) (AC–DELCO #10469459)	90	I (LB4)	1	10469459
	2.374	**GEAR**, DISTR SHF (*17, 18, 24, 27) (PART OF 3) (AC–DELCO #10469459) (PROD 12550956)	94–95	I (LB4)	1	10469459
	2.374	**GEAR**, DISTR SHF (*17, 18, 24, 27) (PART OF 3) (AC–DELCO #10469459) (PROD 12557375)	96–97	I (L35)	1	10469459
	2.374	**GEAR**, DISTR SHF (*17, 22, 24, 28, 31, 32) (PART OF 3) (AC–DELCO #10469459)	96–99	I (L35)	1	10469459
	2.374	**GEAR**, DISTR SHF (*17, 24) (PART OF 3) (AC–DELCO #10469459)	93–95	I (LB4)	1	10469459
	2.374	**GEAR**, DISTR SHF (*2, 10) (PART OF 3) (AC–DELCO #10469459)	92–93	I (LB4)	1	10469459
	2.374	**GEAR**, DISTR SHF (*28, 31, 32) (PART OF 3) (AC–DELCO #10469459)	94–95	I (LB4)	1	10469459
	2.374	**GEAR**, DISTR SHF (*28, 31, 32) (PART OF 3) (AC–DELCO #10469459)	96	I (L35)	1	10469459
	2.374	**GEAR**, DISTR SHF (*5) (PART OF 3) (AC–DELCO #10469459)	92	I (LB4)	1	10469459
50.	2.379	**WASHER**, DISTR SHF (*15, 17, 18, 19, 20, 21, 22, 24) (PART OF 3) (AC–DELCO #1977937)	90	I (LB4)	1	1977937
	2.379	**WASHER**, DISTR SHF (*17, 18, 24, 27) (PART OF 3) (AC–DELCO #1977937) (PROD 12557375)	96–97	I (L35)	1	1977937

	2.379	WASHER, DISTR SHF (*17, 24) (PART OF 3) (AC–DELCO #1977937)	93–95	I (LB4)	1	1977937
	2.379	WASHER, DISTR SHF (*17, 24, 28, 31, 32) (PART OF 3) (AC–DELCO #1977937)	96–99	I (L35)	1	1977937
	2.379	WASHER, DISTR SHF (*2, 10) (PART OF 3) (AC–DELCO #1977937)	92–93	I (LB4)	1	1977937
	2.379	WASHER, DISTR SHF (*28, 31, 32) (PART OF 3) (AC–DELCO #1977937)	94–95	I (LB4)	1	1977937
	2.379	WASHER, DISTR SHF (*5) (PART OF 3) (AC–DELCO #1977937) ..	92	I (LB4)	1	1977937
51.	2.379	WASHER, DISTR SHF THR (*15, 17, 18, 19, 20, 21, 22, 24) (PART OF 3) (AC–DELCO #1965864) .	90	I (LB4)	1	1965864
	2.379	WASHER, DISTR SHF THR (*17, 22, 24, 28, 31, 32) (PART OF 3) (AC–DELCO #1965864)	96–99	I (L35)	1	1965864
	2.379	WASHER, DISTR SHF THR (*17, 24) (PART OF 3) (AC–DELCO #1965864)	93–95	I (LB4)	1	1965864
	2.379	WASHER, DISTR SHF THR (*2, 10) (PART OF 3) (AC–DELCO #1965864)	92–93	I (LB4)	1	1965864
	2.379	WASHER, DISTR SHF THR (*28, 31, 32) (PART OF 3) (AC–DELCO #1965864)	94–95	I (LB4)	1	1965864
	2.379	WASHER, DISTR SHF THR (*5) (PART OF 3) (AC–DELCO #1965864)	92	I (LB4)	1	1965864
52.	2.372	SHIELD, DISTR IGN PICK UP COIL (*15, 17, 18, 19, 20, 21, 22, 24) (PART OF 3) (AC–DELCO #10496783)	90	I (LB4)	1	10496783
	2.372	SHIELD, DISTR IGN PICK UP COIL (*17, 22, 24, 28, 31, 32) (PART OF 3) (AC–DELCO #10496783)	96–99	I (L35)	1	10496783
	2.372	SHIELD, DISTR IGN PICK UP COIL (*17, 24) (PART OF 3) (AC–DELCO #10496783)	93–94	I (LB4)	1	10496783
	2.372	SHIELD, DISTR IGN PICK UP COIL (*2, 10) (PART OF 3) (AC–DELCO #10496783)	92–93	I (LB4)	1	10496783
	2.372	SHIELD, DISTR IGN PICK UP COIL (*28) (PART OF 3) (AC–DELCO #10496783)	94–95	I (LB4)	1	10496783
	2.372	SHIELD, DISTR IGN PICK UP COIL (*5) (PART OF 3) (AC–DELCO #10496783)	92	I (LB4)	1	10496783
53.	2.372	COIL, DISTR PICK UP (*15, 17, 18, 19, 20, 21, 22, 24) (PART OF 3) (AC–DELCO #D1944A)	90	I (LB4)	1	10470794
	2.372	COIL, DISTR PICK UP (*17, 22, 24, 28, 31, 32) (PART OF 3) (AC–DELCO #D1944A)	96–99	I (L35)	1	10470794

	2.372	**COIL**, DISTR PICK UP (*17, 24) (PART OF 3) (AC–DELCO #D1944A)	93–95	I (LB4)	1	10470794
	2.372	**COIL**, DISTR PICK UP (*2, 10) (PART OF 3) (AC–DELCO #D1944A)	92–93	I (LB4)	1	10470794
	2.372	**COIL**, DISTR PICK UP (*28, 31, 32) (PART OF 3) (AC–DELCO #D1987)	94–95	I (LB4)	1	10495089
	2.372	**COIL**, DISTR PICK UP (*28, 31, 32) (PART OF 3) (AC–DELCO #D1987)	96	I (L35)	1	10495089
	2.372	**COIL**, DISTR PICK UP (*5) (PART OF 3) (AC–DELCO #D1987)	92	I (LB4)	1	10495089
54.	2.372	**POLE PIECE & PLATE**, DISTR (*15, 17, 18, 19, 20, 21, 22, 24) (PART OF 3) (AC–DELCO #D1945A)	90	I (LB4)	1	10470795
	2.372	**POLE PIECE & PLATE**, DISTR (*17, 22, 24, 28, 31, 32) (PART OF 3) (AC–DELCO #D1945A)	96–99	I (L35)	1	10470795
	2.372	**POLE PIECE & PLATE**, DISTR (*17, 24) (PART OF 3) (AC–DELCO #D1945A)	93–95	I (LB4)	1	10470795
	2.372	**POLE PIECE & PLATE**, DISTR (*2, 10) (PART OF 3) (AC–DELCO #D1945A)	92–93	I (LB4)	1	10470795
	2.372	**POLE PIECE & PLATE**, DISTR (*28, 31, 32) (PART OF 3) (AC–DELCO #10495802)	94–95	I (LB4)	1	10495802
	2.372	**POLE PIECE & PLATE**, DISTR (*28, 31, 32) (PART OF 3) (AC–DELCO #10495802)	96	I (L35)	1	10495802
	2.372	**POLE PIECE & PLATE**, DISTR (*5) (PART OF 3) (AC–DELCO #10495802)	92	I (LB4)	1	10495802
55.	2.383	**BOLT**, DISTR ICM (*15, 17, 18, 19, 20, 21, 22, 24) (PART OF 3) (AC–DELCO #10469668)	90	I (LB4)	2	10469668
	2.383	**BOLT**, DISTR ICM (*17, 22, 24, 28, 31, 32) (PART OF 3) (AC–DELCO #10469668)	96–99	I (L35)	2	10469668
	2.383	**BOLT**, DISTR ICM (*17, 24) (PART OF 3) (AC–DELCO #10469668)	93–95	I (LB4)	2	10469668
	2.383	**BOLT**, DISTR ICM (*2, 10) (PART OF 3) (AC–DELCO #10469668)	92–93	I (LB4)	2	10469668
	2.383	**BOLT**, DISTR ICM (*28, 31, 32) (PART OF 3) (AC–DELCO #1987972)	94–95	I (LB4)	2	1987972
	2.383	**BOLT**, DISTR ICM (*28, 31, 32) (PART OF 3) (AC–DELCO #1987972)	96	I (L35)	2	1987972
	2.383	**BOLT**, DISTR ICM (*5) (PART OF 3) (AC–DELCO #1987972)	92	I (LB4)	2	1987972
56.	2.383	**MODULE**, DISTR IGN CONT (*15, 18, 19, 20, 21, 22, 24) (PART OF 3) (AC–DELCO #D1965A)	90	I (LB4)	1	10482830

	2.383	**MODULE**, DISTR IGN CONT (*17, 22, 24, 27, 31, 32) (PART OF 3) (AC–DELCO #D1965A) ..	96–99	I (L35)	1	10482830
	2.383	**MODULE**, DISTR IGN CONT (*17, 24) (PART OF 3) (AC–DELCO #D1965A)	93–95	I (LB4)	1	10482830
	2.383	**MODULE**, DISTR IGN CONT (*2, 10) (PART OF 3) (AC–DELCO #D1965A)	92–93	I (LB4)	1	10482830
	2.383	**MODULE**, DISTR IGN CONT (*28, 31, 32.) (PART OF 3) (AC–DELCO #D1943A)	94–95	I (LB4)	1	10482827
	2.383	**MODULE**, DISTR IGN CONT (*28, 31, 32.) (PART OF 3)	94–95	I (LB4)	1	12350350
	2.383	**MODULE**, DISTR IGN CONT (*28, 31, 32.) (PART OF 3) (AC–DELCO #D1943A)	96	I (L35)	1	10482827
	2.383	**MODULE**, DISTR IGN CONT (*28, 31, 32.) (PART OF 3)	96	I (L35)	1	12350350
	2.383	**MODULE**, DISTR IGN CONT (*5) (PART OF 3) (AC–DELCO #D1943A)	92–93	I (LB4)	1	10482827
	2.383	**MODULE**, DISTR IGN CONT (*5) (PART OF 3)	92–93	I (LB4)	1	12350350
57.	2.372	**PIN**, DISTR IGN PICK UP POLE PIECE LOC (PART OF 3) (1/8 X 1/2 ZN) (CHAMFERED ENDS, ZINC PLT) (*15, 17, 18, 19, 20, 21, 22, 24) (3.459)	90	I (LB4)	1	454666
	2.372	**PIN**, DISTR IGN PICK UP POLE PIECE LOC (PART OF 3) (1/8 X 1/2 ZN) (CHAMFERED ENDS, ZINC PLT) (*5) (3.459)	92	I (LB4)	1	454666
	2.372	**PIN**, DISTR IGN PICK UP POLE PIECE LOC (PART OF 3) (1/8 X 1/2 ZN) (CHAMFERED ENDS, ZINC PLT) (*2, 10) (3.459)	92–93	I (LB4)	1	454666
	2.372	**PIN**, DISTR IGN PICK UP POLE PIECE LOC (PART OF 3) (1/8 X 1/2 ZN) (CHAMFERED ENDS, ZINC PLT) (*17, 24) (3.459)	93–95	I (LB4)	1	454666
	2.372	**PIN**, DISTR IGN PICK UP POLE PIECE LOC (PART OF 3) (1/8 X 1/2 ZN) (CHAMFERED ENDS, ZINC PLT) (*28, 31, 32) (3.459) .	94–95	I (LB4)	1	454666
	2.372	**PIN**, DISTR IGN PICK UP POLE PIECE LOC (PART OF 3) (1/8 X 1/2 ZN) (CHAMFERED ENDS, ZINC PLT) (*17, 24, 28, 31, 32) (3.459)	96–99	I (L35)	1	454666
58.	2.362	**HOUSING**, DISTR (*15, 17, 18, 19, 20, 21, 22, 24) (PART OF 3) (AC–DELCO #10470793)	90	I (LB4)	1	10470793
	2.362	**HOUSING**, DISTR (*17, 22, 24, 28, 31, 32) (PART OF 3) (AC–DELCO #10470793)	96–99	I (L35)	1	10470793
	2.362	**HOUSING**, DISTR (*17, 24) (PART OF 3) (AC–DELCO #10470793)	93–95	I (LB4)	1	10470793

	2.362	**HOUSING**, DISTR (*2, 10) (PART OF 3) (AC-DELCO #10470793)	92-93	I (LB4)	1	10470793
	2.362	**HOUSING**, DISTR (*28, 31, 32) (PART OF 3) (AC-DELCO #10472052)	94-95	I (LB4)	1	10472052
	2.362	**HOUSING**, DISTR (*28, 31, 32) (PART OF 3) (AC-DELCO #10472052)	96	I (L35)	1	10472052
	2.362	**HOUSING**, DISTR (*5) (PART OF 3) (AC-DELCO #10472052)	92	I (LB4)	1	10472052
59.	2.368	**BOLT**, DISTR CAP (PART OF 3) (AC-DELCO #10475922)	96	I (L35)	2	10475922
	2.368	**BOLT**, DISTR CAP (*15, 17, 18, 19, 20, 21, 22, 24) (PART OF 3) (AC-DELCO #10469669)	90	I (LB4)	2	10469669
	2.368	**BOLT**, DISTR CAP (*17, 22, 24, 28, 31, 32) (PART OF 3) (AC-DELCO #10469669)	96-99	I (L35)	2	10469669
	2.368	**BOLT**, DISTR CAP (*17, 24) (PART OF 3) (AC-DELCO #10469669)	93-95	I (LB4)	2	10469669
	2.368	**BOLT**, DISTR CAP (*2, 10) (PART OF 3) (AC-DELCO #10469669)	92-93	I (LB4)	2	10469669
	2.368	**BOLT**, DISTR CAP (*23) (PART OF 3) (WITH SCOTCHGRIP) (AC-DELCO #10457666) (OVERSIZED)	96	I (L35)	2	10457666
	2.368	**BOLT**, DISTR CAP (*28, 31, 32) (PART OF 3) (AC-DELCO #10469669)	94-95	I (LB4)	2	10469669
	2.368	**BOLT**, DISTR CAP (*5) (PART OF 3) (AC-DELCO #10469669)	92	I (LB4)	2	10469669
60.	2.382	**ROTOR**, DISTR (*15, 17, 18, 19, 20, 21, 22, 24) (PART OF 3) (AC-DELCO #D451)	90	I (LB4)	1	10470597
	2.382	**ROTOR**, DISTR (*17, 22, 24, 28, 31, 32) (PART OF 3) (AC-DELCO #D451)	96-99	I (L35)	1	10470597
	2.382	**ROTOR**, DISTR (*17, 24) (PART OF 3) (AC-DELCO #D451)	93-95	I (LB4)	1	10470597
	2.382	**ROTOR**, DISTR (*2, 10) (PART OF 3) (AC-DELCO #D451)	92-93	I (LB4)	1	10470597
	2.382	**ROTOR**, DISTR (*28, 31, 32) (PART OF 3) (AC-DELCO #D446)	94-95	I (LB4)	1	10497452
	2.382	**ROTOR**, DISTR (*28, 31, 32) (PART OF 3) (AC-DELCO #D446)	96	I (L35)	1	10497452
	2.382	**ROTOR**, DISTR (*5) (PART OF 3) (AC-DELCO #D446)	92	I (LB4)	1	10497452
61.	2.372	**SHAFT**, DISTR (*15, 17, 18, 19, 20, 21, 22, 24) (PART OF 3) (AC-DELCO #10470791)	90	I (LB4)	1	10470791
	2.372	**SHAFT**, DISTR (*17, 22, 24, 28, 31, 32) (PART OF 3) (AC-DELCO #10470791)	96-99	I (L35)	1	10470791
	2.372	**SHAFT**, DISTR (*17, 24) (PART OF 3) (AC-DELCO #10470791)	93-95	I (LB4)	1	10470791

	2.372	**SHAFT**, DISTR (*2, 10) (PART OF 3) (AC-DELCO #10470791) ...	92-93	I (LB4)	1	10470791
	2.372	**SHAFT**, DISTR (*28, 31, 32) (PART OF 3) (AC-DELCO #10495798)	94-95	I (LB4)	1	10495798
	2.372	**SHAFT**, DISTR (*28, 31, 32) (PART OF 3) (AC-DELCO #10495798)	96	I (L35)	1	10495798
	2.372	**SHAFT**, DISTR (*5) (PART OF 3) (AC-DELCO #10495798)	92	I (LB4)	1	10495798
62.	2.372	**RETAINER**, DISTR IGN PICK UP COIL (*15, 17, 18, 19, 20, 21, 22, 24) (AC-DELCO #10474792) ..	90	I (LB4)	1	10474792
	2.372	**RETAINER**, DISTR IGN PICK UP COIL (*17, 24) (AC-DELCO #10474792)	93-95	I (LB4)	1	10474792
	2.372	**RETAINER**, DISTR IGN PICK UP COIL (*17, 24, 28, 31, 32) (AC-DELCO #10474792)	96-99	I (L35)	1	10474792
	2.372	**RETAINER**, DISTR IGN PICK UP COIL (*2, 10) (AC-DELCO #10474792)	92-93	I (LB4)	1	10474792
	2.372	**RETAINER**, DISTR IGN PICK UP COIL (*28, 31, 32) (AC-DELCO #10470820)	94-95	I (LB4)	1	10470820
	2.372	**RETAINER**, DISTR IGN PICK UP COIL (*5) (AC-DELCO #10470820)	92	I (LB4)	1	10470820
63.	2.183	**BOLT**, IGN COIL BRKT (*13, 17, 24) (HWH, M4X0.7X30, 9.8 PC) (8.900)	93	I (LB4)	AR	11507041
	2.183	**BOLT**, IGN COIL BRKT (*13, 23) (HWH, M4X0.7X30, 9.8 PC) (8.900)	96-97	I (L35)	AR	11507041
	2.183	**BOLT**, IGN COIL BRKT (*15, 17, 18, 19, 20, 21, 22, 24) (8.900) ...	90	I (LB4)	AR	11507041
	2.183	**BOLT**, IGN COIL BRKT (*17, 24, 28, 31, 32) (HWH, M4X0.7X30, 9.8 PC) (8.900)	94-95	I (LB4)	AR	11507041
	2.183	**BOLT**, IGN COIL BRKT (*2, 5, 10) (HWH, M4X0.7X30, 9.8 PC) (8.900)	92-93	I (LB4)	AR	11507041
64.	2.170	**COIL**, IGN (*13, 17, 24) (AC-DELCO #D535)	93	I (LB4)	1	1115315
	2.170	**COIL**, IGN (*13, 23) (AC-DELCO #D577)	96-97	I (L35)	1	10489421
	2.170	**COIL**, IGN (*15, 17, 19, 20, 21, 22, 24) (AC-DELCO #D535) ...	90	I (LB4)	1	1115315
	2.170	**COIL**, IGN (*17, 22, 24, 28, 31, 32) (AC-DELCO #D561)	96-99	I (L35)	1	1115498
	2.170	**COIL**, IGN (*17, 24) (AC-DELCO #D535)	96	I (L35)	1	1115315
	2.170	**COIL**, IGN (*17, 24, 31, 32) (AC-DELCO #D535)	94-95	I (LB4)	1	1115315
	2.170	**COIL**, IGN (*2, 5, 10) (AC-DELCO #D535)	92-93	I (LB4)	1	1115315
65.	2.240	**HARNESS**, IGN COIL WRG (*13) (AC-DELCO #330C)	93	I (LB4)	1	12053452

	2.240	**HARNESS**, IGN COIL WRG (*28, 31, 32) (12" LONG) (COIL WIRE WITH 90 DEGREE BOOT ON EACH END) (AC–DELCO #326V)	94–95	I (LB4)	1	12074074
	2.240	**HARNESS**, IGN COIL WRG (*28, 31, 32) (12" LONG) (COIL WIRE WITH 90 DEGREE BOOT ON EACH END) (AC–DELCO #326V)	96–98	I (L35)	1	12074074
	2.240	**HARNESS**, IGN COIL WRG (*5) (12" LONG) (COIL WIRE WITH 90 DEGREE BOOT ON EACH END) (AC–DELCO #326V)	92–93	I (LB4)	1	12074074
66.	2.240	**WIRE**, IGN COIL (*13) (W/O CONDUIT) (PRIMARY)	93	I (LB4)	1	12048976
	2.240	**WIRE**, IGN COIL (*13, 23) (AC–DELCO #12097982)	96	I (L35)	1	12097982
	2.240	**WIRE**, IGN COIL (*15, 17, 18, 19, 20, 21, 22, 24) (AC–DELCO #12097982)	90	I (LB4)	1	12097982
	2.240	**WIRE**, IGN COIL (*17, 18, 24, 27) (AC–DELCO #12097982)	96–99	I (L35)	1	12097982
	2.240	**WIRE**, IGN COIL (*17, 24) (AC–DELCO #12097982)	93	I (LB4)	1	12097982
	2.240	**WIRE**, IGN COIL (*17, 24, 31, 32) (2 WIRES) (7.068)	94–95	I (LB4)	1	12080258
	2.240	**WIRE**, IGN COIL (*17, 24, 31, 32) (AC–DELCO #12097982)	94–95	I (LB4)	1	12097982
	2.240	**WIRE**, IGN COIL (*2, 10) (AC–DELCO #12097982)	92–93	I (LB4)	1	12097982
	2.240	**WIRE**, IGN COIL (*28) (W/O CONDUIT) (PRIMARY)	94–95	I (LB4)	1	12048976
	2.240	**WIRE**, IGN COIL (*28) (W/O CONDUIT) (PRIMARY)	96	I (L35)	1	12048976
	2.240	**WIRE**, IGN COIL (*5) (W/O CONDUIT) (PRIMARY)	92–93	I (LB4)	1	12048976
67.	1.153	**OUTLET**, WAT (*13) (AC–DELCO #15–1581)	91	I (LB4)	1	10172831
	1.153	**OUTLET**, WAT (*13) (AC–DELCO #15–1581)	93	I (LB4)	1	10172831
	1.153	**OUTLET**, WAT (*13, 23) (AC–DELCO #15–1794)	96–97	I (L35)	1	12557563
	1.153	**OUTLET**, WAT (*28) (AC–DELCO #15–1567)	94–95	I (LB4)	1	10147884
	DISCON	**OUTLET**, WAT (*5)	90–91	I (LB4)	1	329223
	1.153	**OUTLET**, WAT (*5) (AC–DELCO #15–1567)	92–93	I (LB4)	1	10147884
68.	1.154	**GASKET**, WAT OTLT (*13 KIT1) (PART OF 69) (AC–DELCO #10105135)	91	I (LB4)	1	10105135
	1.154	**GASKET**, WAT OTLT (*13 KIT1) (PART OF 69) (AC–DELCO #10105135)	93	I (LB4)	1	10105135
	1.154	**GASKET**, WAT OTLT (*13, 23) (PART OF 69) (1.252) (AC–DELCO #12553106)	96–97	I (L35)	1	12553106
	1.154	**GASKET**, WAT OTLT (*27, 28) (PART OF 69) (1.252) (AC–DELCO #12553106)	94	I (LB4)	1	12553106

	1.154	**GASKET**, WAT OTLT (*28) (PART OF 69) (1.252) (AC-DELCO #12553106)	95	I (LB4)	1	12553106
	1.154	**GASKET**, WAT OTLT (*5) (PART OF 69) (1.252) (AC-DELCO #12553106)	93	I (LB4)	1	12553106
	1.154	**GASKET**, WAT OTLT (*5 KIT 1) (PART OF 69) (AC-DELCO #10105135)	90-92	I (LB4)	1	10105135
69.	1.246	**THERMOSTAT**, ENG COOL (*13) (INCL 68) (AC-DELCO #131-73)	91	I (LB4)	1	10207373
	1.246	**THERMOSTAT**, ENG COOL (*13) (INCL 68) (AC-DELCO #131-73)	93	I (LB4)	1	10207373
	1.246	**THERMOSTAT**, ENG COOL (*13, 23) (INCL 68) (195 DEG) (INCLS SEAL) (AC-DELCO #131-113)	96-98	I (L35)	1	12557859
	1.246	**THERMOSTAT**, ENG COOL (*28) (INCL 68)	94-95	I (LB4)	1	10207695
	1.246	**THERMOSTAT**, ENG COOL (*5) (INCL 68) (AC-DELCO #131-75)	90-92	I (LB4)	1	10207381
	1.246	**THERMOSTAT**, ENG COOL (*5) (INCL 68)	93	I (LB4)	1	10207695
70.	N.S.	**PIPE**, CHOKE HT (*5)	90-91	I (LB4)		
71.	3.603	**GASKET**, CHOKE HT PIPE (*1, 2, 3, 4, 5, 12, 17, 21, 24) (3.750) ...	90-91	I (LB4)	1	14097286
72.	1.150	**SENSOR**, ENG COOL TEMP (*13) (3/8-18 THD) (2 BLADE TERM) (INCLS CONNECTORS, SENSORS & SHELLS) (AC-DELCO #213-72)	91	I (LB4)	1	25036979
	1.150	**SENSOR**, ENG COOL TEMP (*13) (3/8-18 THD) (2 BLADE TERM) (INCLS CONNECTORS, SENSORS & SHELLS) (AC-DELCO #213-72)	93	I (LB4)	1	25036979
	1.150	**SENSOR**, ENG COOL TEMP (*28) (3/8-18 THD) (2 BLADE TERM) (INCLS CONNECTORS, SENSORS & SHELLS) (AC-DELCO #213-72)	94-95	I (LB4)	1	25036979
	1.150	**SENSOR**, ENG COOL TEMP (*5) (3/8-18 THD) (2 BLADE TERM) (INCLS CONNECTORS, SENSORS & SHELLS) (AC-DELCO #213-72)	91-93	I (LB4)	1	25036979
	1.150	**SENSOR**, ENG COOL T/GA (*13) (2 BLADE TERM) (3/8-18 THD) (2 TERM, CAN BE USED AS 1 TERM CONN) (AC-DELCO #213-77)	93	I (LB4)	1	25037332
	1.150	**SENSOR**, ENG COOL T/GA (*13, 23) (AC-DELCO #12554145) ..	96-97	I (L35)	1	12554145
73.	3.275	**STUD**, INT MANIF (*13) (3/8-16X.78 BOTH ENDS)	91	I (LB4)	4	14091545
	3.275	**STUD**, INT MANIF (*13) (3/8-16X.78 BOTH ENDS)	93	I (LB4)	4	14091545

	3.275	**STUD**, INT MANIF (*28) (3/8–16X.78 BOTH ENDS)	94–95	I (LB4)	4	14091545
	3.275	**STUD**, INT MANIF (*5) (3/8–16X.78 BOTH ENDS)	91–93	I (LB4)	4	14091545
74.	3.671	**COVER**, EGR VLV OPG (*28) ...	94–95	I (LB4) (EXC EGR VALVE	1	10054880
	3.671	**COVER**, EGR VLV OPG (*5)	92–93	I (LB4) (EXC EGR VALVE)	1	10054880
75.	3.671	**GASKET**, EGR VLV OPG CVR (*28) (3.680) (AC–DELCO #219–21)	94–95	I (LB4)	1	12337972
	3.671	**GASKET**, EGR VLV OPG CVR (*5) (3.680) (AC–DELCO #219–21)	92–93	I (LB4)	1	12337972
76.	2.240	**WIRE**, IGN COIL (*13) (W/O CONDUIT) (PRIMARY)	93	I (LB4)	1	12048976
	2.240	**WIRE**, IGN COIL (*13, 23) (AC–DELCO #12097982)	96	I (L35)	1	12097982
	2.240	**WIRE**, IGN COIL (*15, 17, 18, 19, 20, 21, 22, 24) (AC–DELCO #12097982)	90	I (LB4)	1	12097982
	2.240	**WIRE**, IGN COIL (*17, 18, 24, 27) (AC–DELCO #12097982)	96–99	I (L35)	1	12097982
	2.240	**WIRE**, IGN COIL (*17, 24) (AC–DELCO #12097982)	93	I (LB4)	1	12097982
	2.240	**WIRE**, IGN COIL (*17, 24, 31, 32) (2 WIRES) (7.068)	94–95	I (LB4)	1	12080258
	2.240	**WIRE**, IGN COIL (*17, 24, 31, 32) (AC–DELCO #12097982)	94–95	I (LB4)	1	12097982
	2.240	**WIRE**, IGN COIL (*2, 10) (AC–DELCO #12097982)	92–93	I (LB4)	1	12097982
	2.240	**WIRE**, IGN COIL (*28) (W/O CONDUIT) (PRIMARY)	94–95	I (LB4)	1	12048976
	2.240	**WIRE**, IGN COIL (*28) (W/O CONDUIT) (PRIMARY)	96	I (L35)	1	12048976
	2.240	**WIRE**, IGN COIL (*5) (W/O CONDUIT) (PRIMARY)	92–93	I (LB4)	1	12048976
77.	1.745	**VALVE**, PCV (*13) (AC–DELCO #CV799C)	91	I (LB4)	1	8995910
	1.745	**VALVE**, PCV (*13) (AC–DELCO #CV799C)	93	I (LB4)	1	8995910
	1.745	**VALVE**, PCV (*17, 18, 24, 27) (AC–DELCO #CV769C) (PROD 12561515)	98–99	I (L35)	1	6487532
	1.745	**VALVE**, PCV (*28, 31, 32) (AC–DELCO #CV789C)	94–95	I (LB4)	1	8995284
	1.745	**VALVE**, PCV (*28, 31, 32) (AC–DELCO #CV789C)	96	I (L35)	1	8995284
	1.745	**VALVE**, PCV (*5) (AC–DELCO #CV789C)	92–93	I (LB4)	1	8995284
	1.745	**VALVE**, PCV (STRAIGHT FITTING HIGH FLOW 5.2 CFM *17, 18, 24, 27) (AC–DELCO #CV769C)	98	I (L35)	1	6487532
78.	1.745	**GROMMET**, PCV VLV (1.762) ...	96–99	I (L35)	AR	10240678
	1.745	**GROMMET**, PCV VLV (*13) (23/32 ID–1 3/16 OD)	93	I (LB4)	AR	3989350
	1.745	**GROMMET**, PCV VLV (*17, 18, 24, 27, 28, 31, 32) (1.762)	94–95	I (LB4)	AR	10240678

	1.745	GROMMET, PCV VLV (*5) (23/32 ID–1 3/16 OD)	92–93	I (LB4)	AR	3989350
79.	2.251	BOLT, SPLG WIRE RET BRKT (*13) (8.900)	93	I (LB4)	AR	9439930
	2.251	BOLT, SPLG WIRE RET BRKT (*28, 31, 32) (8.900)	94–95	I (LB4)	AR	9439930
	2.251	BOLT, SPLG WIRE RET BRKT (*5) (8.900)	92–93	I (LB4)	AR	9439930
80.	2.251	SUPPORT, SPLG WIRE (*13)	91	I (LB4)	LH	10137607
	2.251	SUPPORT, SPLG WIRE (*13)	91	I (LB4)	LH	10137613
	2.251	SUPPORT, SPLG WIRE (*13)	93	I (LB4)	LH	10137607
	2.251	SUPPORT, SPLG WIRE (*13)	93	I (LB4)	LH	10137613
	2.251	SUPPORT, SPLG WIRE (*13, 23)	96–97	I (L35)	2	12555948
	2.251	SUPPORT, SPLG WIRE (*28, 31, 32)	94–95	I (LB4)	LH	10137607
	2.251	SUPPORT, SPLG WIRE (*28, 31, 32) (LH FRT & RH RR)	94–95	I (LB4)	1	10221633
	2.251	SUPPORT, SPLG WIRE (*5)	92–93	I (LB4)	LH	10137607
	2.251	SUPPORT, SPLG WIRE (*5)	92–93	I (LB4)	LH	10137613
81.	2.367	CAP, DISTR (*15, 17, 18, 19, 20, 21, 22, 24) (PART OF 3) (AC–DELCO #D314A)	90	I (LB4)	1	10477182
	2.367	CAP, DISTR (*17, 18, 23, 24, 27, 28, 31, 32) (PART OF 3) (AC–DELCO #D314A)	96	I (L35)	1	10477182
	2.367	CAP, DISTR (*17, 18, 24, 27) (PART OF 3) (AC–DELCO #D314A) (PROD 12557375)	96–97	I (L35)	1	10477182
	2.367	CAP, DISTR (*17, 22, 24, 28, 31, 32) (PART OF 3) (AC–DELCO #D314A)	97–99	I (L35)	1	10477182
	2.367	CAP, DISTR (*17, 24) (PART OF 3) (AC–DELCO #D314A)	93	I (LB4)	1	10477182
	2.367	CAP, DISTR (*17, 24, 28, 31, 32) (PART OF 3) (AC–DELCO #D314A)	94–95	I (LB4)	1	10477182
	2.367	CAP, DISTR (*2, 10) (PART OF 3) (AC–DELCO #D314A)	92–93	I (LB4)	1	10477182
	2.367	CAP, DISTR (*5) (PART OF 3) (AC–DELCO #D314A)	92–93	I (LB4)	1	10477182
82.	3.670	VALVE, EGR VAC REG & EPR SOL (*13) (INCLS FLTR) (AC–DELCO #214–365)	91	I (LB4)	1	10137639
	3.670	VALVE, EGR VAC REG & EPR SOL (*13) (INCLS FLTR) (AC–DELCO #214–365)	93	I (LB4)	1	10137639
83.	3.670	BOLT, EGR VAC REG & EPR SOL VLV (*13) (8.977)	91	I (LB4)	2	11509745
	3.670	BOLT, EGR VAC REG & EPR SOL VLV (*13) (8.977)	93	I (LB4)	2	11509745
84.	3.682	SENSOR, MAP (*13) (AC–DELCO #213–183)	91	I (LB4)	1	16009886
	3.682	SENSOR, MAP (*13) (AC–DELCO #213–183)	93	I (LB4)	1	16009886
85.	3.682	BRACKET, MAP SEN (*13)	91	I (LB4)	1	10068571
	3.682	BRACKET, MAP SEN (*13)	93	I (LB4)	1	10068571
86.	2.483	BRACKET, MULTIUSE RLY (*13)	91	I (LB4)	1	10137673
	2.483	BRACKET, MULTIUSE RLY (*13)	93	I (LB4)	1	10137673

87.	2.483	**NUT**, MULTIUSE RLY BRKT (*13) (3/8–16 PC, 286M) (HEX, FLANGE) (8.917)	91	I (LB4)	1	9442958
	2.483	**NUT**, MULTIUSE RLY BRKT (*13) (3/8–16 PC, 286M) (HEX, FLANGE) (8.917)	93	I (LB4)	1	9442958
88.	1.153	**STUD**, WAT OTLT (*13) (3/8–16X.78 BOTH ENDS) (3.275)	91	I (LB4)	4	14091545
	1.153	**STUD**, WAT OTLT (*13) (3/8–16X.78 BOTH ENDS) (3.275)	93	I (LB4)	4	14091545
89.	1.153	**BOLT**, WAT OTLT (3/8–16X1–1/8) (*13) (8.900)	91	I (LB4)	1	14091544
	1.153	**BOLT**, WAT OTLT (3/8–16X1–1/8) (*5) (8.900)	92–93	I (LB4)	1	14091544
	1.153	**BOLT**, WAT OTLT (3/8–16X1–1/8) (*13) (8.900)	93	I (LB4)	1	14091544
	1.153	**BOLT**, WAT OTLT (3/8–16X1–1/8) (*28) (8.900)	94–95	I (LB4)	1	14091544
	1.153	**BOLT**, WAT OTLT (3/8–16X1–1/8) (8.900)	96	I (L35)	1	14091544
90.	2.183	**BRACKET**, IGN COIL (AC–DELCO #10489420)	96	I (L35)	1	10489420
	2.183	**BRACKET**, IGN COIL (*13) (AC–DELCO #1987910) (BOTTOM)	93	I (LB4)	1	1987910
	2.183	**BRACKET**, IGN COIL (*13) (TOP)	93	I (LB4)	1	1988372
	2.183	**BRACKET**, IGN COIL (*13, 23) (AC–DELCO #10490900)	96–97	I (L35)	1	10490900
	2.183	**BRACKET**, IGN COIL (*15, 17, 18, 19, 20, 21, 22, 24) (2.170) (TOP)	90	I (LB4)	1	10470094
	2.183	**BRACKET**, IGN COIL (*15, 17, 18, 19, 20, 21, 22, 24) (2.170) (BOTTOM)	90	I (LB4)	1	10470624
	2.183	**BRACKET**, IGN COIL (*17, 24) (2.170) (TOP)	93	I (LB4)	1	10470094
	2.183	**BRACKET**, IGN COIL (*17, 24) (2.170) (BOTTOM)	93	I (LB4)	1	10470624
	2.183	**BRACKET**, IGN COIL (*17, 24) (2.170) (TOP)	96	I (L35)	1	10470094
	2.183	**BRACKET**, IGN COIL (*17, 24) (2.170) (BOTTOM)	96	I (L35)	1	10470624
	2.183	**BRACKET**, IGN COIL (*17, 24, 31, 32) (2.170) (TOP)	94–95	I (LB4)	1	10470094
	2.183	**BRACKET**, IGN COIL (*17, 24, 31, 32) (2.170) (BOTTOM)	94–95	I (LB4)	1	10470624
	2.183	**BRACKET**, IGN COIL (*2, 10) (2.170) (TOP)	92–93	I (LB4)	1	10470094
	2.183	**BRACKET**, IGN COIL (*2, 10) (2.170) (BOTTOM)	92–93	I (LB4)	1	10470624
	2.183	**BRACKET**, IGN COIL (*28) (AC–DELCO #1987910) (BOTTOM)	94–95	I (LB4)	1	1987910
	2.183	**BRACKET**, IGN COIL (*28) (TOP)	94–95	I (LB4)	1	1988372
	2.183	**BRACKET**, IGN COIL (*28, 31, 32) (2.170) (TOP)	96	I (L35)	1	10470094

	2.183	**BRACKET**, IGN COIL (*28, 31, 32) (2.170) (BOTTOM)	96	I (L35)	1		10470624
	2.183	**BRACKET**, IGN COIL (*5) (AC–DELCO #1987910) (BOTTOM)	92–93	I (LB4)	1		1987910
	2.183	**BRACKET**, IGN COIL (*5) (TOP)	92–93	I (LB4)	1		1988372
91.	2.183	**NUT**, IGN COIL BRKT (*13, 17, 24) (HEX W/CON WA, M4X.7X4.5, 5) (8.915)	93	I (LB4)	2		10180301
	2.183	**NUT**, IGN COIL BRKT (*15, 17, 18, 19, 20, 31, 22, 24) (8.915)	90	I (LB4)	2		10180301
	2.183	**NUT**, IGN COIL BRKT (*17, 24, 28, 31, 32) (HEX W/CON WA, M4X.7X4.5, 5) (8.915) (M4X.7X4.5, 5, NO)	94–95	I (LB4)	2		10180301
	2.183	**NUT**, IGN COIL BRKT (*17, 28, 31, 32) (HEX W/CON WA, M4X.7X4.5, 5) (8.915) (M4X.7X4.5, 5, NO)	96	I (L35)	2		10180301
	2.183	**NUT**, IGN COIL BRKT (*2, 5, 10) (HEX W/CON WA, M4X.7X4.5, 5) (8.915)	92–93	I (LB4)	2		10180301
92.	1.745	**TUBE**, OIL FIL (*13) (INCL O–RING, T/W 12551757 CAP) (PUSH IN OIL CAP)	91–92	I (LB4) (1ST DES)	1		12553514
	1.745	**TUBE**, OIL FIL (*13) (INCL. O–RING) (SCREW IN OIL CAP)	92–93	I (LB4) (2ND DES)	1		10203474
	1.745	**TUBE**, OIL FIL (*13, 23)	96–97	I (L35)	1		10207349
93.	2.251	**SUPPORT**, SPLG WIRE (*13)	91	I (LB4)	LH		10137607
	2.251	**SUPPORT**, SPLG WIRE (*13)	91	I (LB4)	LH		10137613
	2.251	**SUPPORT**, SPLG WIRE (*13)	93	I (LB4)	LH		10137607
	2.251	**SUPPORT**, SPLG WIRE (*13)	93	I (LB4)	LH		10137613
	2.251	**SUPPORT**, SPLG WIRE (*13, 23)	96–97	I (L35)	2		12555948
	2.251	**SUPPORT**, SPLG WIRE (*28, 31, 32)	94–95	I (LB4)	LH		10137607
	2.251	**SUPPORT**, SPLG WIRE (*28, 31, 32) (LH FRT & RH RR)	94–95	I (LB4)	1		10221633
	2.251	**SUPPORT**, SPLG WIRE (*5)	92–93	I (LB4)	LH		10137607
	2.251	**SUPPORT**, SPLG WIRE (*5)	92–93	I (LB4)	LH		10137613
94.	2.251	**SUPPORT**, SPLG WIRE (*13)	91	I (LB4)	RH		10137610
	2.251	**SUPPORT**, SPLG WIRE (*5)	92–93	I (LB4)	RH		10137610
	2.251	**SUPPORT**, SPLG WIRE (LH FRT & RH RR) (*28, 31, 32)	94–95	I (LB4)	AR		10221633
95.	0.439	**GUIDE**, VLV LFTR PUSH ROD (INCLS BOLTS) (0.480)	94–95	I (LB4)	2		12551431
	0.439	**GUIDE**, VLV LFTR PUSH ROD (INCLS BOLTS) (0.480)	96–99	I (L35)	2		12551431
	0.439	**GUIDE**, VLV LFTR PUSH ROD (*2, 3, 5, 8, 9, 10, 11, 12, 14, 15, 17, 18, 24, 27) (INCLS BOLTS) (0.480)	93	I (LB4)	2		12551431
96.	0.459	**BOLT**, VLV LFTR GDE (5/16–18 X 1.25) (8.900)	94–95	I (LB4)	4		9440227
	0.459	**BOLT**, VLV LFTR GDE (5/16–18X.63)	96–99	I (L35)	4		24501042
	0.459	**BOLT**, VLV LFTR GDE (*2, 3, 5, 8, 9, 10, 11, 14, 15, 17, 18, 24, 27) (5/16–18 X 1.25) (8.900)	93	I (LB4)	4		9440227

97.	8.866	**NIPPLE**, HTR INL HOSE (*22, 28, 31, 32)	96–99	I (L35)	1	12554592
98.	1.166	**CLAMP**, W/PMP INL HOSE (*22, 23, 28, 31, 32) (GRAY) (22MM TO 26MM) (8.948)	96–99	I (L35)	1	10108254
99.	1.097	**HOSE**, W/PMP INL (*13, 23)	96–97	I (L35)	1	10242185
	1.097	**HOSE**, W/PMP INL (*22, 28, 31, 32) (INCL CLAMPS)	96–99	I (L35)	1	12555197
103.		**SEALER**, INT MANIF CORE HOLE PLUG (SEALANT–LOCTITE PIPE–W/TEFLON 50CC TUBE) (8.800)		I	AR	12346004
104.		**LUBRICANT**, RAD BYPASS HOSE ENG (RUBBER 5–GALLON) (8.800)		I	AR	12345884

SERVICE KITS

1.	0.289	**GASKET KIT**, CYL HD (*1, 2, 3, 4, 5, 8, 12) (INCL 6, 15, 22, 23, 33, 36, 39, 68)	90–91	I (LB4)	1	10159421
	0.289	**GASKET KIT**, CYL HD (*13, 17, 18, 24, 27, 28, 31, 32)	96–99	I (L35)	1	12457585
	0.289	**GASKET KIT**, CYL HD (*17, 21, 24) (INCL 6, 15, 22, 23, 33, 36, 39, 68)	90	I (LB4)	1	10159421
	0.289	**GASKET KIT**, CYL HD (*2, 3, 8, 9, 10, 11, 12, 14, 15, 17, 18, 24, 27) (INCL 6, 15, 22, 33, 36, 39, 68)	93	I (LB4)	1	12525460
	0.289	**GASKET KIT**, CYL HD (*23) (INCLS HD & LWR INT MANF GSKTS, ENG VLV OIL SEALS) ..	96	I (L35)	1	12369150
	0.289	**GASKET KIT**, CYL HD (*28, 31, 32) (INCL 6, 15, 22, 33, 36, 39, 68)	94–95	I (LB4)	1	12525460
	0.289	**GASKET KIT**, CYL HD (*5) (INCL 6, 15, 22, 33, 36, 39, 68)	92	I (LB4)	1	12507990
2.	3.270	**GASKET KIT**, INT MANIF (INCLS GASKETS & INST SHEETS)	96–99	I (L35)	1	12529196
	3.270	**GASKET KIT**, INT MANIF (*1) ..	93	I (LB4)	1	12520113
	3.270	**GASKET KIT**, INT MANIF (*1, 2, 3, 4, 5, 8, 12)	90–91	I (LB4)	1	10159422
	3.270	**GASKET KIT**, INT MANIF (*1, 2, 3, 4, 6, 8, 12)	92	I (LB4)	1	10159422
	3.270	**GASKET KIT**, INT MANIF (*13) .	91	I (LB4)	1	12509697
	3.270	**GASKET KIT**, INT MANIF (*13) .	93	I (LB4)	1	12509697
	DISCON	**GASKET KIT**, INT MANIF (*15, 16, 18, 19, 20, 22, 23)	90	I (LB4)	1	10159491
	3.270	**GASKET KIT**, INT MANIF (*17, 18, 24, 27, 31, 32)	94–95	I (LB4)	1	12510908
	3.270	**GASKET KIT**, INT MANIF (*2, 3, 8, 9, 10, 11, 12, 14, 15, 17, 18, 24, 27)	93	I (LB4)	1	12510908
	3.270	**GASKET KIT**, INT MANIF (*5) (0.289)	92	I (LB4)	1	12507990
	3.270	**GASKET KIT**, INT MANIF (*6) ..	93	I (LB4)	1	12520114
	DISCON	**GASKET KIT**, INT MANIF (*6, 7, 9, 10, 11)	90–91	I (LB4)	1	10159491

	3.270	GASKET KIT, INT MANIF (*7, 9, 10, 11)	92	I (LB4)	1	10159490
3.	2.239	WIRE KIT, SPLG (*13) (INCL 76)	91	I (LB4)	1	12074091
	2.239	WIRE KIT, SPLG (*13) (INCL 76)	93	I (LB4)	1	12074091
	2.239	WIRE KIT, SPLG (*13, 23) (INCL 76) (AC–DELCO #746T)	96–97	I (L35)	1	12173579

NOTE 1: 4.3L 262 CID MARINE ENG. 1990 14096747 (0KS); 1991 14097161 (1KS); 1992 14097211 (2K3); 1993 14097301 (3KS).
NOTE 2: 4.3L 262 CID MARINE ENG. 1990 14096745 (0KB); 1991 14097163 (1KB); 1992 14097212 (2KB); 1993 14097302 (3KB).
NOTE 3: 4.3L 262 CID MARINE ENG. 1990 14096746 (0KP); 1991 14097165 (1KP); 1992 14097213 (2KP); 1993 14097303 (3KP).
NOTE 4: 4.3L 262 CID MARINE ENG. 1990 14096976 (0KC); 1991 14097166 (1KC); 1992 14097216 (2KC).
NOTE 5: 4.3L 262 CID INDUSTRIAL ENG. 1990 14096749 (0KM); 1991 14097168 (1KM); 1992 14097218 (2KM); 1993 14097306 (3KM).
NOTE 6: 4.3L 262 CID MARINE ENG. 1990 14096748 (0KT); 1991 14097169 (1KT); 1992 14097219 (2KT); 1993 14097307 (3KT).
NOTE 7: 4.3L 262 CID MARINE ENG. 1990 14096750 (0KJ); 1991 14097171 (1KJ); 1992 14097220 (2KJ).
NOTE 8: 4.3L 262 CID MARINE ENG. 1990 14096752 (0KR); 1991 14097173 (1KR); 1992 14097221 (2KR); 1993 14097309 (3KR).
NOTE 9: 4.3L 262 CID MARINE ENG. 1990 14096975 (0KA); 1991 14097174 (1KA); 1992 14097222 (2KA); 1993 14097310 (3KA).
NOTE 10: 4.3L 262 CID MARINE ENG. 1990 14096751 (0KL); 1991 14097176 (1KL); 1992 14097223 (2KL); 1993 14097311 (3KL).
NOTE 11: 4.3L 262 CID MARINE ENG. 1990 14096753 (0KF); 1991 14097178 (1KF); 1992 14097228 (2KF); 1993 14097312 (3KF).
NOTE 12: 4.3L 262 CID MARINE ENG. 1990 14097265 (0KD); 1991 14097266 (1KD); 1992 14097217 (2KD); 1993 14097305 (3KD).
NOTE 13: 4.3L 262 CID MARINE ENG. 1991 14097271 (1LD); 1993 14097442 (3LD),1997 12555442 (7LD).
NOTE 14: 4.3L 262 CID MARINE ENG. 1993 14097473 (3LG).
NOTE 15: 4.3L 262 CID MARINE ENG. 1990 14096959 (0LH); 1993 14097474 (3LH).
NOTE 16: 4.3L 262 CID MARINE ENG. 1990 14096754 (0KH).
NOTE 17: 4.3L CID MARINE ENG.1990 14096953 (0LB),1993 10228377 (3LB),1994 10223771 (4LB),1995 12550043 (5LB),1996 12551081 (6LB),1997 12556152 (7LB),1998 12556159 (8LB),1999 1255616
NOTE 18: 4.3L CID MARINE ENG.1990 14096954 (0LJ),1993 10224523 (3LJ),1994 10223774 (4LJ),1995 12550044 (5LJ),1996 12552316 (6LJ),1997 12556153 (7LJ),1998 12556160 (8LJ),1999 1255616
NOTE 19: 4.3L 262 CID MARINE ENG. 1990 14096955 (0LL).
NOTE 20: 4.3L 262 CID MARINE ENG. 1990 14096958 (0LF).
NOTE 21: 4.3L 262 CID MARINE ENG. 1990 14096960 (0LS).
NOTE 22: 4.3L 262 CID MARINE ENG. 1990 14096961 (0LT). ,1998 12550280(8LT),1999 12560281 (9LT).
NOTE 23: 4.3L 262 CID MARINE ENG. 1990 14096978 (0LA),1996 12555440 (6LA),1997 12555441 (7LA).
NOTE 24: 4.3L MARINE ENG.1990 14096980 (0LC); 1993 10228378 (3LC),1994 10235339 (4LC),1995 12550048 (5LC),1996 12552318 (6LC),1997 12556158 (7LC),1998 12556162 (8LC),1999 12556169
NOTE 25: 4.3L 262 CID MARINE ENG. 1985–86 12517970.
NOTE 26: 4.3L 262 CID MARINE ENG. 1985–91 12517971.
NOTE 27: 4.3L 262 CID MARINE ENG. 1993 10224525 (3LK),1994 10223779 (4LK),1995 12550047 (5LK),1996 12552317 (6LK),1997 12556154 (7LK),1998 12556161 (8LK),1999 12556168 (9LK)
NOTE 28: 4.3L 262 CID INDUSTRAIL ENG ,1994 10223780 (4LM),1995 12550049 (5LM),1996 12552319 (6LM),1997 12556156 (7LM),1998 12556163 (8LM),1999 12556170 (9LM).
NOTE 31: 4.3L 262 CID INDUSTRAIL ENG 1994 12551717 (4LS),1995 12551718 (5LS),1996 12552320 (6LS),1997 12556157 (7LS),1998 12556164 (8LS),1999 12556171 (9LS).
NOTE 32: 4.3L 262 CID INDUSTRAIL ENG 1994 12552399 (4LX),1995 12552400 (5LX),1996 12552401 (6LX),1997 12556158 (7LX),1998 12556165 (8LX),1999 12556172 (9LX).

RPO DEFINITIONS

LB4 – ENGINE,(4.3L),V6 90 DEG GAS TBI
L35 – ENGINE,4.3L(4.3W),V6,90 DEG

5.1 VELOCITY GOVERNOR

The SENSITIVITY ADJUSTMENT is factory set and sealed to cover a range of engine speeds. Only in rate instances should the sensitivity adjustment be changed. To readjust the sensitivity setting proceed as follows:

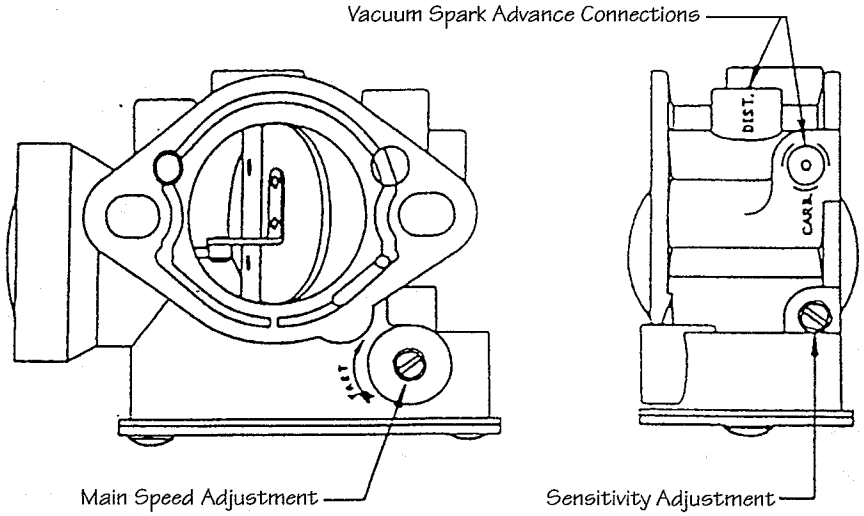
1. Remove the plug covering the sensitivity adjusting screw by carefully drilling a 1/8 diameter hole thru the center of the plug and prying the plug out.

2. If engine is too sensitive, turn the SENSITIVITY SCREW 1/4 turn clockwise, and readjust the MAIN ADJUSTMENT to obtain the desired speed. End each adjustment with a clockwise turn of the screw. Repeat as needed.

3. If the engine speed drops excessively when loaded, turn the SENSITIVITY SCREW 1/2 turn counter-clockwise, then turn this screw 1/4 turn clockwise. Readjust the MAIN ADJUSTMENT to obtain the desired speed. End each adjustment with a clockwise turn of the screw. Repeat this procedure as needed.

4. When all adjustments are completed, seal the adjusting screws using HOOF SEAL KIT 200-940. If the seal kit is not available, seal each screw by forcing SILICONE SEALER into the cavity around the screw. Sealer must enter the screw slot to lock the screw from turning.

   NOTE: If spark advance ports in governor are not used, plug these holes in the governor with 1/8" pipe plugs.
   Also, if carburetor has vacuum controlled power jets, plug the connecting channel in the carburetor flange so that the power jet hole vents to the vacuum channel on the governor flange through a slotted gasket.



INSTRUCTION SHEET

REMOVE: Air cleaner and carburetor, after disconnecting throttle linkage, choke cable, spark advance tubing, and fuel line. Also remove and discard the old gasket and studs.

INSTALL: Long studs, gasket, governor, gasket, aluminum spacer (if needed for carburetor linkage clearance), gasket, and carburetor. Also install drilled brass nut on one carburetor stud.

CONNECT: Fuel line, choke cable, throttle linkage, and vacuum spark-advance tubing.

CHECK: Carburetor for smooth throttle action to wide open position, and choke control linkage.

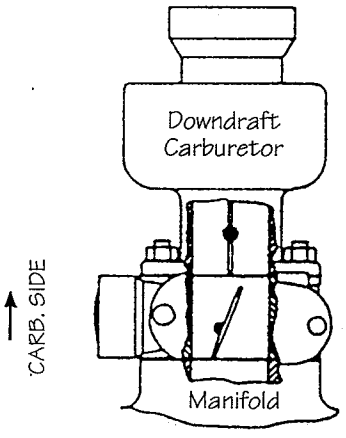
START: The engine. check for fuel and vacuum leaks. Allow the engine to warm up to normal operating temperature.

ADJUST: Governor for required engine speed with carburetor wide open. Turn governor adjusting screw clockwise for higher speeds, and counter-clockwise for lower speeds. Always end any speed adjustment with a clockwise turn of the screw to remove lost motion within the governor linkage.

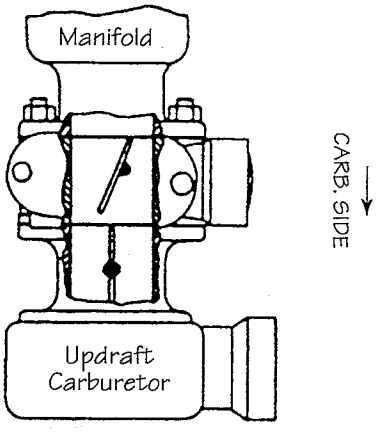
SEAL: Governor to engine by passing seal wire (Kit 200-481) through hole in brass nut, around carburetor body, and through two holes in Hoof Seal Body. Twist wire ends together and snip off excess wire. Snap Seal Cover over Seal Body.

INSTALL: Air cleaner. Road test the vehicle, and make final speed adjustments as needed. Recheck to fuel or vacuum leaks.

SEAL: Governor adjustment by placing Brass Locking Disc (Kit 200-940) on top of adjusting screw so that tang on disc is located in slot of screw. Then place Expansion Plug over Brass Disc and tap the plub with a 1/4" diameter punch and hammer to set the plug in place.



NOTE:
Arrow cast on side of governor must always point toward carburetor.



5.2 ELECTRONIC GOVERNOR

225 SERIES ELECTRIC ACTUATOR

INTRODUCTION

The 225 Series actuator is a rotary output, linear torque proportional electric servo designed for mechanical actuation of fuel system control levers. The actuator is energized by appropriate speed control unit signals, and is capable of 25 degrees rotation.

INSTALLATION

The actuator must be rigidly mounted as close as possible to the engine throttle lever. When selecting the mounting location, consideration must be given to possible linkage obstructions.

The linkage should be direct, short, and as light as possible. Low friction rod end bearings should be used throughout the linkage system.

The linkage should be adjusted so that the fuel control minimum fuel and maximum fuel stops are used rather than the internal actuator stops.

A. **Drill the actuator mounting holes** in a pre-fabricated mounting bracket. Mounting hole configuration is illustrated in Diagram 4. The position of the actuator on the mounting bracket should insure minimal misalignment between each end of the governor system linkage. The linkage ball bearing rod ends can tolerate a maximum misalignment of 10 degrees.

B. **Affix the actuator bracket** to the selected location on engine.

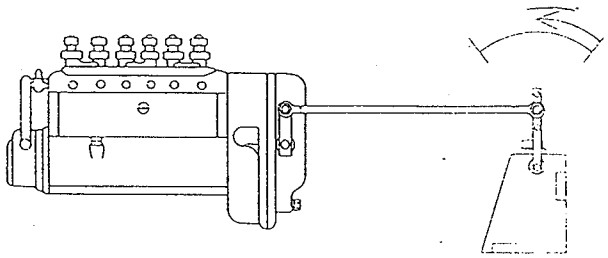
C. **Attach the actuator** securely to the mounting bracket.

D. **Adjust and secure the linkage** rod and rod end bearings.

For proportional actuators to operate with linear control systems, it is important to obtain a linear relationship between actuator stroke and fuel delivery.

Diesel Fuel Systems

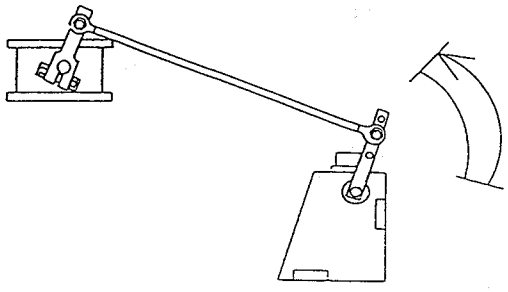
For diesel fuel systems, the linkage configuration is typically linear. The actuator lever should be nearly parallel to the fuel control lever and perpendicular to the linkage rod at the mid fuel position. See Diagram 1.



Fuel Control Lever At Mid Fuel Position
DIAGRAM 1

Carbureted Fuel Systems

For carbureted fuel systems, the linkage is typically non-linear. The ideal linkage relationship is for the carburetor butterfly valve lever to be parallel with the actuator lever and the linkage rod to be perpendicular to the actuator lever at maximum fuel position. See Diagram 2.



Carburetor Fuel Valve At Full Fuel Position
DIAGRAM 2

The actuators with 2 pin connectors are prewired for 12 or 24V. Use the included harness to connect the actuator to the speed control unit.

E. **Fabricate a cable harness** to connect the speed control unit to the actuator. The recommended wire size of the cable harness is at least #16 gauge (1.5 mm) for 12 volt systems and #18 gauge (1.0 mm) for 24 volt systems. The wiring must be capable of handling typical current levels of 8 amps for 12 volt systems and 4 amps for 24 volt systems without experiencing a significant voltage drop. Larger gauge wire will be necessary for cable lengths greater than 10 ft. (3 meters).

If an actuator with a military connector is used, the electrical connector EC 1000 must be prewired in a configuration to match the system voltage supply. See Diagram 3.

32 Volt Operation

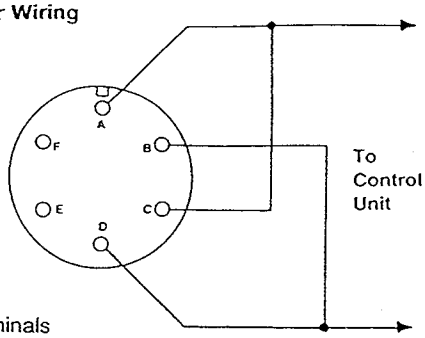
Wire the actuator electrical connector as illustrated for 24 Volt operation. A 1.5 ohm, 25 Watt resistor must be added in series with pin A of actuator and the output terminal of the speed control unit.

F. **Connect A and D of the military connector** or the 2 pin connector harness to the speed control unit. Refer to applicable speed control unit literature.

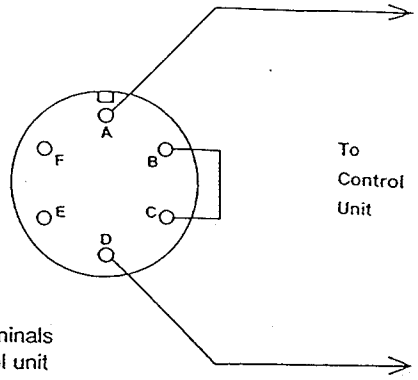
Before Starting The Engine

G. Push the actuator lever to the maximum full fuel position. Upon release, the linkage should return smoothly to minimum fuel position. Recheck the linkage to insure both the linkage and the levers are securely fastened and that no binding is present.

DIAGRAM 3
Military Connector Wiring



12 Volt Operation
A to C
B to D
A & D to output terminals
of speed control unit



24 Volt Operation
B to C
A & D to output terminals
of speed control unit

LINKAGE ADJUSTMENT

The linkage can be optimized by adjusting for an actuator current difference from no engine load to full engine load of approximately 2 amps for 12 volt systems or 1 amp for 24 volt systems.

The no load current is altered by varying the length of the linkage, and the range is adjusted by changing the hole used by the rod end bearing on the actuator lever.

Smaller angles of actuator travel may improve transient performance, but will reduce the force available at the fuel control lever. Adjusting the actuator to operate through at least one half (12 degrees) of its stroke will provide near optimum response.

TROUBLESHOOTING

If the governor system fails to operate, make the following tests at the actuator mounted connector while moving the actuator through its stroke.

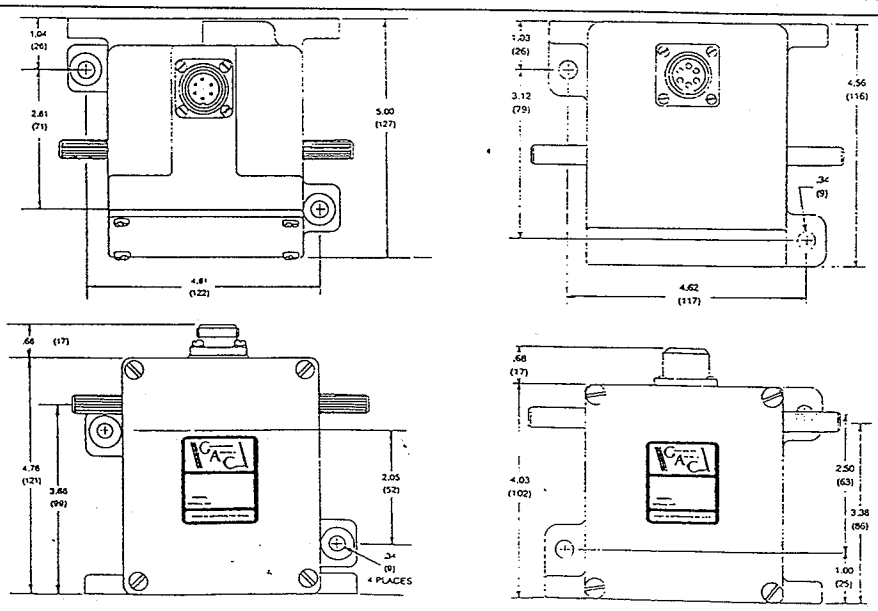
Measure the Resistance

ACB 225/ADB 225	
A to B	2.5 ohms
C to D	2.5 ohms
A to C	Infinity
A to Housing	Infinity
C to Housing	Infinity

ADC 225	
Red to white (12V)	1.25 ohms
Red to white (24V)	5.0 ohms
Red to housing	Infinity
White to housing	Infinity

Energize the actuator to full fuel (follow steps in control unit publication) and manually move the actuator through its range. No binding or sticking should occur.

If the actuator passes these tests, the problem is elsewhere in the system. Refer to the control unit troubleshooting publication.



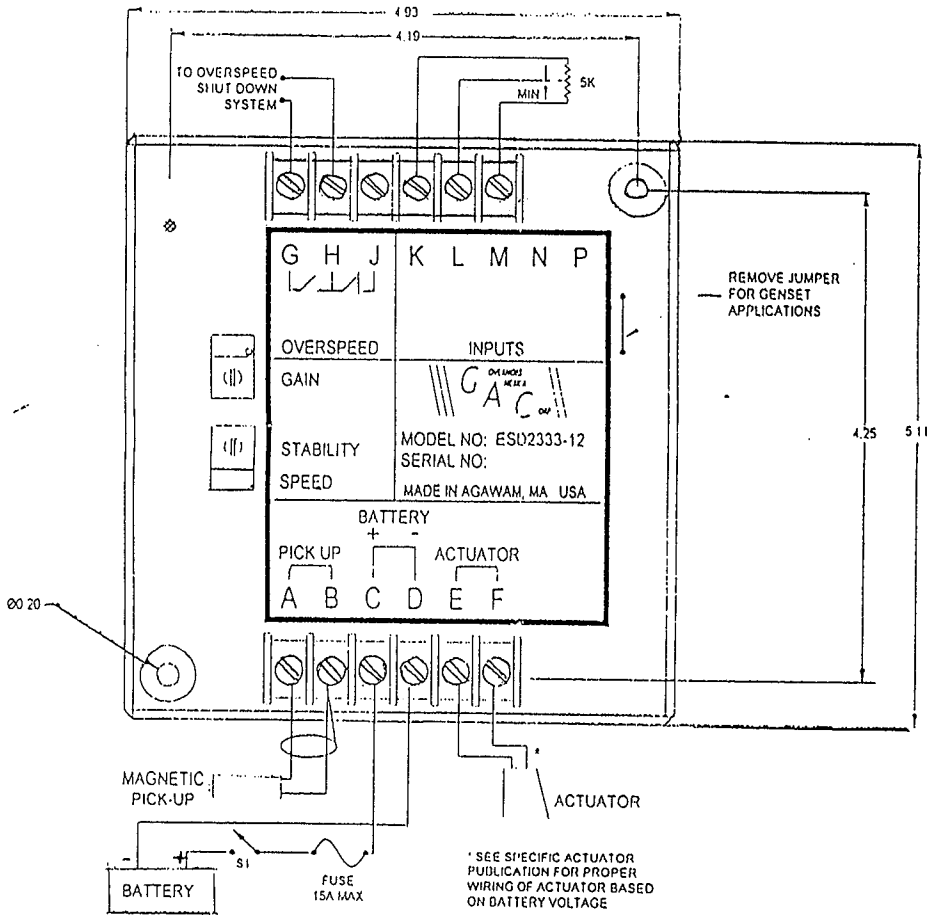
ACB225 and ACC225

DIAGRAM 4
Actuator Outline Dimensions

ADB225 and ADC225

REV	DESCRIPTION	ZONE

WD234



CRITICALITY OF DIMENSIONS

● CRITICAL ◑ MAJOR

◆ CUSTOMER DEFINED

WIRING DIAGRAM

DATE	4 - 15 - 97	SIZE	DRAWING	REV.
DATE,		B	WD234	
NEXT ASSY.		SCALE	SHEET OF	

6.0 TROUBLESHOOTING

IGNITION

1. Gas fuel requires the finest heavy duty spark plugs, with gaps not over .030". More voltage is required to bridge the plug gap than that required using gasoline as a fuel.
2. Spark timing requires rigid adherence to factory recommendations, as natural gas burns relatively slowly. Late timing will result in power loss, excessive heating of the exhaust valves and high exhaust stack temperatures. With no vaporization of liquid fuel in the cylinder to help cool valves during intake and compression cycles, excessive exhaust temperatures may burn or reduce the life of exhaust valves.
3. Propane requires retarded spark setting from that specified for natural gas under load, as the burning rate is faster than that of natural gas. An automatic or manual spark timing adjustment is necessary for dual fuel applications of natural and L.P. gas, particularly with a high compression ratio or a turbo-charged engine.
4. Gasoline engines require a spark plug gap of .045".

HIGH ENERGY IGNITION (HEI) DISTRIBUTOR TIMING

These instructions relate to High Energy Ignition (HEI) distributor systems with electronic spark timing.

Distributor Ignition Systems with EST accomplishes the spark timing function electronically. This results in longer spark plug life, eliminates mechanical contacts and scheduled maintenance, provides better cold weather starting and is environmentally protected.

EST achieves new standards of distributor ignition performance by providing 40% more output voltage and 85% higher energy level. With higher energy available, combustion is more reliable and complete.

Available for GM based L4, V6, and V8 engines.

TIMING PROCEDURE

1. Do not use a timing light that requires piercing of the secondary insulation. Use only a timing light with inductive pick-up or jumper type connectors. Piercing the secondary insulation will cause spark plug misfiring and may damage the internal conductor resulting in failure of the secondary wire later.
2. Install timing light at #1 spark plug lead, per manufacturer's instructions.
3. Do not connect alligator clip lead of the initial timing connector to a B+ source until after engine is started. If the initial timing connector is connected to B+ source while engine is started, the ignition control module (ICM) in the distributor may be damaged. If the engine must be restarted while the initial timing connector is installed, detach alligator clip lead from B+ source to avoid damaging the ICM.

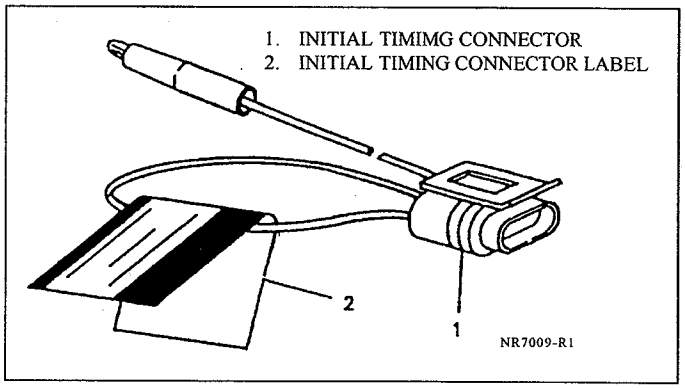
Troubleshooting Cont.

4. Start the engine and allow it to warm to operating temperature. (Follow engine manufacturer's instructions.) Connect alligator clip on long lead of the initial timing connector to convenient B+ voltage source, such as battery terminal on starter solenoid. This removes all advance from electronic spark timing. Engine will probably slow down when connection is made. Engine speed should be around 650 RPM. Loosen the distributor clamp screw just enough to rotate distributor, and set base timing to specification shown for engine.

ENGINE TIMING SPECIFICATIONS:		
INDUSTRIAL		DO NOT EXCEED:
454	INITIAL 6°	TOTAL 30°
350	INITIAL 6°	TOTAL 28°
262	INITIAL 2°	TOTAL 26°
181	INITIAL 0°	TOTAL 20°

Set idle speed to 700 RPM ± 50 RPM
NOTE: Reduce initial timing if total exceeds limits.

5. When timing is set to specification, secure distributor in position with clamp screw.
6. Tighten clamp screw to torque specified.
7. Recheck timing to assure that distributor did not move during tightening.



Installing Initial Timing Connector Label

8. Disconnect the initial timing connector from B+ source and remove the connector from the distributor. Label the initial timing connector as shown by folding adhesive label (in package) over one of the wires, matching the edges to cover the adhesive. Store connector in safe place; keep with engine for future use.

Troubleshooting Cont.

CARBURETION

1. Gas carburetion, because of its simplicity, is unlikely to give any problems when properly installed with an adequate supply of gas. Since the carburetor has the least complicated function to perform, and has the least moving parts, it would be well to exhaust every other avenue of possible mechanical or electrical failure before tampering with gas pressure or carburetor adjustments, particularly if the system has been functioning normally in the past.
2. If carburetion is definitely at fault, the first corrective step is to measure gas inlet pressures at idle and full load with a water manometer. Do not attempt to measure gas pressure with a mercury manometer. If this pressure is determined to be correct for the B.T.U. content of the fuel and the light load mixtures it is desired to maintain, proceed to the next step described under paragraph 3.

   a. Pressures recommended for various conditions of load and fuel heat content are covered in paragraph 8.
3. If conditions still indicate carburetor malfunction, remove the air valve cover (or covers) and lift out the spring and air-gas valve complete with diaphragm.

   a. Inspect diaphragm for possible holes, or charring from excessive heat or backfiring. The diaphragm should be reasonably flexible. Diaphragm life under normal conditions should be as much as five years without difficulty. Heat from proximity to exhaust manifolds, or from turbo-charged air which is not properly cooled due to insufficient or hot water passing through the inter-cooler, can shorten diaphragm life considerably. Impco has a silicone rubber on fibre-glass diaphragm for extreme heat conditions, on special order.

   b. If diaphragms prove sound, check the inside diameter of the air valve cup and the fins on the outside of the gas jet which guide the air valve. Under ultra high frequency vibrations sometimes encountered in deep well pumping, it is possible to find grooves worn in the cup by the fins, which may lead to poor metering as the valve tries to pass up and down over the step. Impco has a specially constructed metering bowl for this infrequent emergency.

   c. Also inspect the inside diameter of the gas jet, and the O.D. of the small tapered gas valve for possible wear from the same cause.

   d. If everything to this point appears o.k., wash all the parts thoroughly in kerosene or the equivalent. If the fuel is digester (sewage) gas, wash parts in water and detergent. This residue will not dissolve in petroleum products.

   e. Reassemble cleaned or replaced parts in the bowl, centering the spring on the air valve, and replace and fasten the cover. From the air-fuel outlet of the mixer to the throttle body, reach in with fingers or non-sharp rod, and lift valve several times to assure free travel with the spring closing the valve. Check the gas valve for leaks in closed position by sucking on the gas inlet. It should be sealed.

Carburetion Cont.

A water manometer may be easily constructed if no manufactured model is available. Using transparent plastic tubing from a hardware store, a" can be formed on a board with a ruler taped next to the "U" approximately half way between the top and bottom. Fill the " U" tube half way with water and measure the number of inches between the two levels of water when pressure is applied to one end of the tube.

Failing this, a piece of automotive vacuum hose may be marked off into inches at one end. This end may be weighted by forcing a small steel nut or one or two washers over the scaled end. Drop the weighted end in a container of water. With the other end fastened to the pressure source, adjust the pressure to the point where bubbles start to flow at the depth in inches at which the desired pressure is reached. Quite an exact check can be made by raising or lowering the hose slightly to see the exact depth at which bubbles start to flow.

With the engine running at idle, gas pressure should be 5 to 7" depending on light load air-fuel mixtures you wish to maintain. Using 1050 B.T.U. natural gas, 7' pressure will produce a straight power mixture, while 5" pressure will give economy mixtures at light load.

At full load of 2" to 7" of mercury intake manifold vacuum, the gas pressure ideally should not drop more than 2" of water column, although this is of no matter as long as the power adjustment on the carburetor is effective in controlling full load mixtures.

If the power adjustment is not effective, it indicates:

A. The engine is lightly loaded and gas metering valve is not withdrawn from the gas jet.
   1. Mixture may be richened by increasing gas pressure.

B. Heat content of the fuel is less than 1000 B.T.U. per cubic foot.
   1. Increase gas pressure. It may be raised to 12" to 16" of water column if necessary.

C. If mixture is still too lean:
   1. Try DG (digester gas) air-gas valve assembly in the carburetor with normal gas pressure of 5" to 7".

D. If mixture is still too lean:
   1. The B.T.U. content must be as low as 600 to 700 B.T.U. per cubic foot.
   2. Substitute a complete DG (digester gas) mixer in place of the standard model. This DG model is effective down to 600 B.T.U. per cubic foot.

4. To understand the flexible control of the mixture under various conditions of load, refer to figure #3 showing a cut away of an Impco #200 carburetor. This shows the air gas valve assembly to be the only moving part in the mixers. The air flow measuring valve rises precisely in relation to the volume of air consumed by the engine, which is in turn controlled by engine speed and throttle position.

Carburetion Cont.

The cut away shows the air-gas valve assembly lifted about one third of the available travel. Notice that the greatest restriction to gas flow is the shaped gas metering valve, the bulk of which is not yet withdrawn from the gas jet. In this position, the power adjustment valve has little or no control over mixtures, since even in its fully closed position, its restriction to gas flow is less than that of the metering valve.

Mixtures may be leaned or richened with the valve in this or less open positions, by increasing or decreasing gas pressure to the carburetor.

5. Full power mixtures are controlled by the power mixture adjustment. This adjustment must be made with the engine under full or working load. With the gas metering valve withdrawn from the jet, the major restriction to gas flow becomes the power mixture adjustment, which is most effective at full load, and decreasingly effective down to approximately one half load where it no longer has much effect.

6. This dual control of mixtures at different load settings, makes it possible to maintain a straight best power mixture from idle to full power with increased gas pressure up to certain limits, or a lean light load mixture may be obtained with lower gas pressure and readjustment of the power mixture adjustment to proper full load mixtures.

7. Illustration #4 is a graph showing air fuel mixtures obtained at light and full load with various inlet pressures to the carburetor. Graphs for different engine configurations will vary as to the percentage of load where the curve moves from the mixture controlled by gas pressure, to the mixture controlled by the power mixture adjustment.

   This is so because of the relationship of carburetor size to engine displacement and speed. A large engine with a comparatively small carburetor, will withdraw the gas metering valve form the jet more quickly, and at a lesser percentage of load than a large carburetor on a small engine. Different Impco carburetors vary slightly as to ideal gas inlet pressure for best economy. 5" of water column gas pressure is a compromise which suits most conditions with 1050 B.T.U. fuel.

8. For fuel with less heat (B.T.U.'s) per cubic foot, an increase in gas inlet pressure to 10" to 12" of water column will compensate for fuel down to 900 - 950 B.T.U. heat value.

   Fuel with even less heating value in the 800 B.T.U. range requires a special gas valve #DG-AV1-12. Digester gas with 650 B.T.U. heat value requires a special mixing bowl with restricted air passages. These would be the DG-200 mixer, DG-200D mixer and DG-200T mixer (DG for digester gas).

9. No compensation in mixtures is necessary because of altitude changes. Air and gas expand essentially the same amount at high altitude, whereas a liquid fuel has a constant density so that mixtures richen at high altitude.

Carburetion Cont.

Power declines 3% for each 1000 feet of altitude even with correct air fuel mixtures, so that loss with a liquid fuel is even greater, and consumption of liquid tuel per horsepower hour increases at higher altitude unless the carburetor or diesel injection system is adjusted to compensate for altitude.

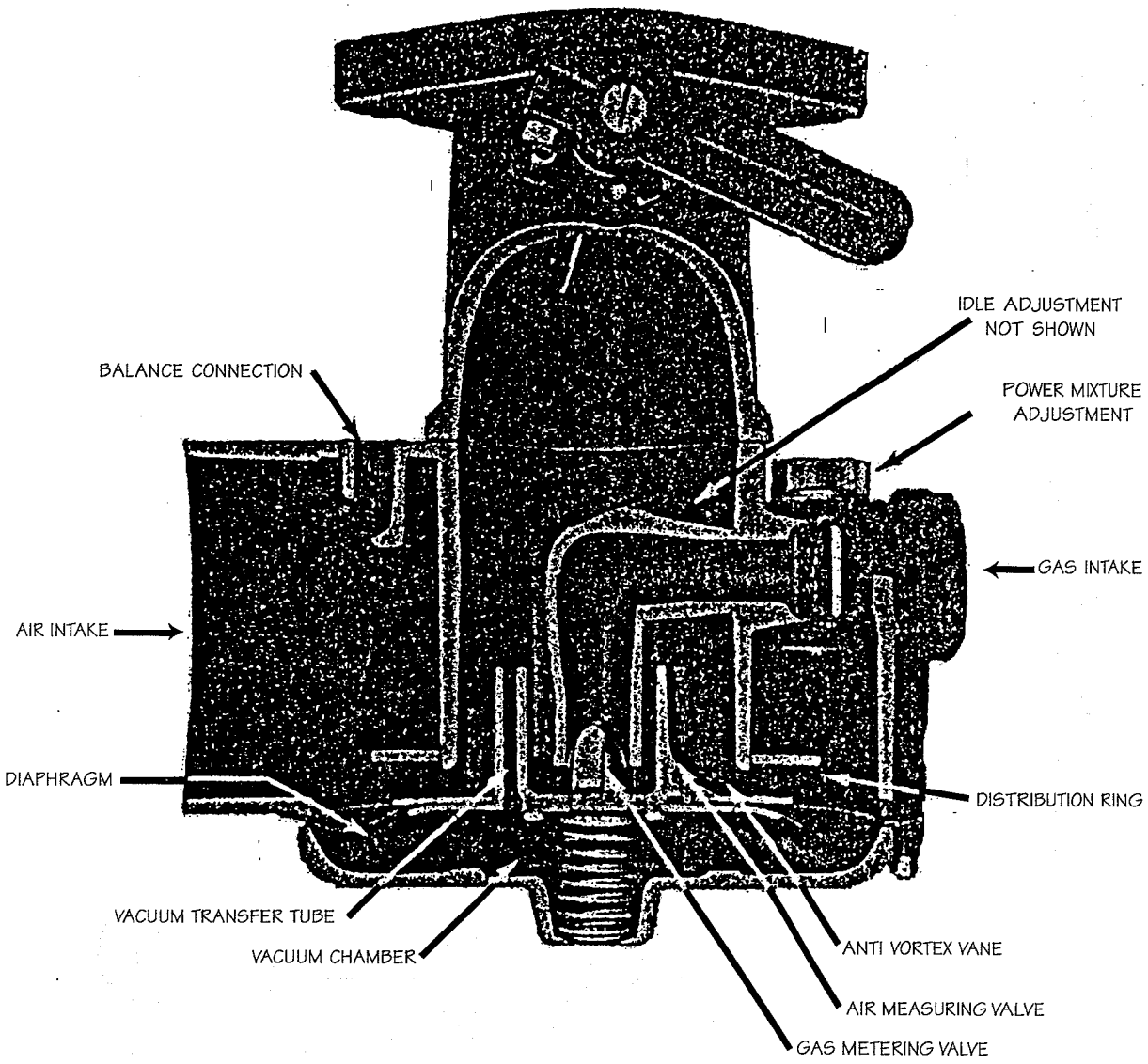
10. A turbo-charged engine likewise causes no problem with air fuel mixture ratios. By using a balance pressure connection from the air inlet at the carburetor to the atmospheric vent of the gas regulator, both air and gas densities increase equally. Volume of air-gas flow is the same as in a naturally aspirated engine, however the weight of air and fuel flowing is increased by pressurizing each. In order to check the fuel to air pressure differential which should still be approximately 5" of water column at idle for 1050 B.T.U. gas, it is necessary to connect the water manometer to the air pressure entering the carburetor, and to the gas pressure entering the carburetor. This will measure the difference in pressures only, not the total pressure of either. This difference should be the same as that of a naturally aspirated system.

    One minor difference in mixtures occurs due to compression heating of the air by the turbo-compressor. This air temperature is almost always controlled by the use of an inter-cooler, however the temperature still rises a bit above ambient temperature. This causes a slight richening of the air-fuel ratio, since the gas remains at relatively constant temperature, as the air temperature is raised. A slight adjustment of the power mixture towards lean will compensate for the air temperature rise.

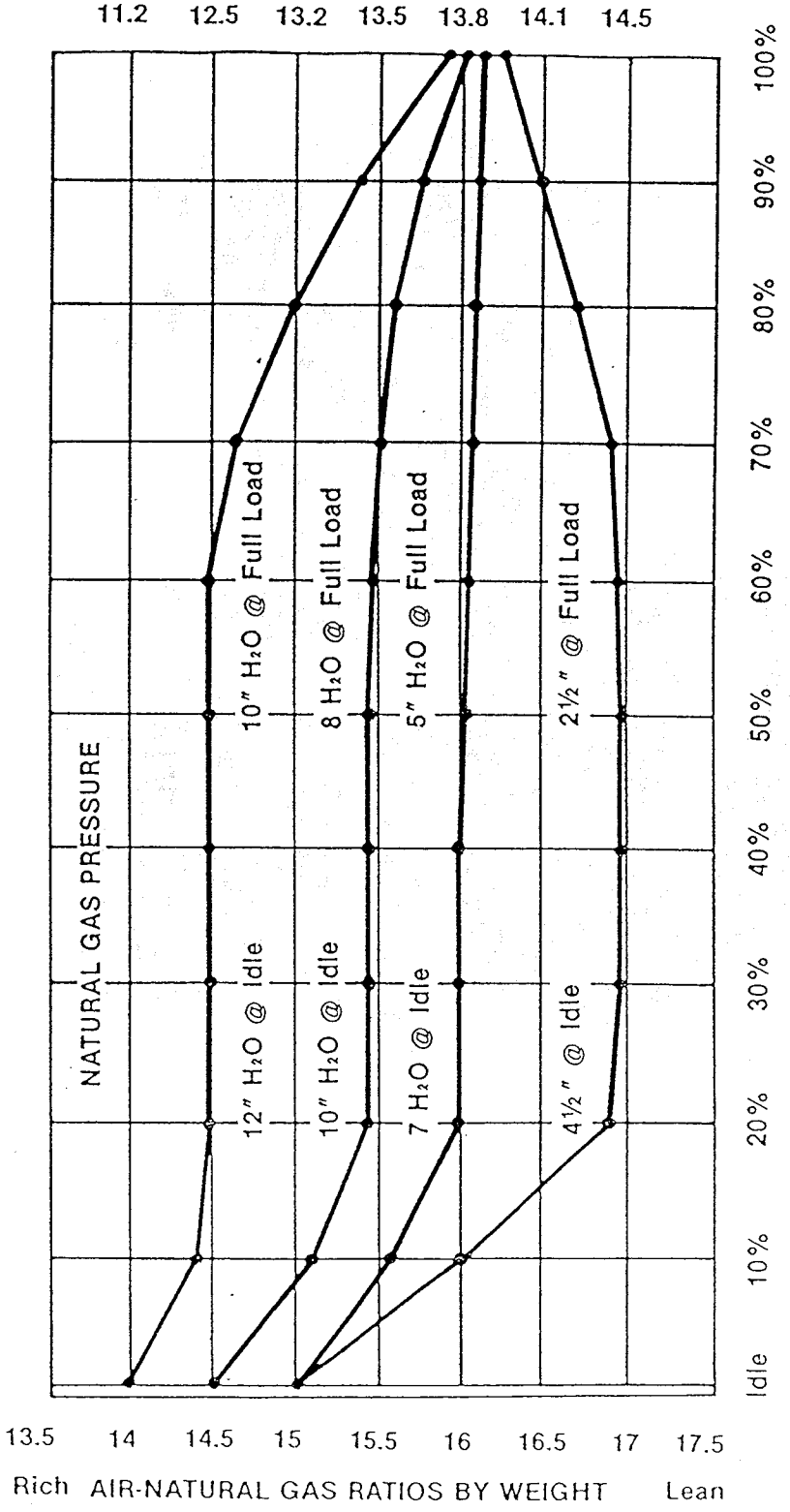
11. Hot intake air to a naturally aspirated engine cuts power production materially, as well as increasing the possibility of detonation and pre- ignition which can injure or destroy an engine in short order. Aside from power loss from detonation, there is a loss of 1% of power for each 10 of air temperature rise. Roughly 7# of air is required to produce one horsepower for one hour. Since heating air lightens it (as in a hot air balloon) a greater volume of hot air is required to weigh 7#. An engine at full load will only breathe a fixed volume of air, so that the number of available pounds of air are reduced by using hot air to the carburetor.

12. Heated air to the carburetor is especially critical in a turbo-charged installation using propane fuel full or part time. Water temperature is required to be 60' through the inter-cooler for a 10 to 1 compression ratio with turbo-charger, in order to avoid detonation. This cold water is seldom available.

DIAPHRAGM OPERATED AIR VALVE GAS CARBURETOR



EQUIVALENT READINGS ON GASOLINE SCALE OF EXHAUST GAS ANALYZER



GRAPH: Mixture Comparison At Light Loads — Full Load Mixtures Readjusted For Each Pressure
1050 B.T.U. Natural Gas (High Heat Value)

LOAD — PERCENTAGE OF AVAILABLE HORSEPOWER

ENGINE: Ford 352 cubic inches w/Impco #425-12 Carburetor.

NOTE: Exhause gas analyzers do not read accurately below 14.5 to 1 on the gasoline scale. They will not register leaner mixtures, and may reverse with very lean air-fuel ratios.

Fig. #4

TROUBLE SHOOTING CHART

POSSIBLE CAUSE:	ENGINE FAILURE OR FAILURE TO START	TEMPERATURE WARNING	ENGINE PERFORMANCE LOW	ENGINE OIL PRESSURE LOW OR ZERO	ENGINE OIL CONSUMPTION HIGH	ENGINE NOT RUNNING SMOOTHLY	ENGINE SMOKING	ENGINE BACKFIRING
	PROBLEM:							
IGNITION FUSE OR FUSES	♦							
BATTERY LOW	♦							
FOULED PLUGS OR WIRES	♦		♦			♦		
FUEL FILTER CLOGGED	♦		♦			♦		
FUEL PRESSURE LOW	♦		♦			♦		♦
FUEL TANK EMPTY	♦							♦
AIR IN FUEL SYSTEM	♦		♦			♦		♦
DEFECTIVE FUEL INJECTOR	♦					♦	♦	
AIR CLEANER CLOGGED		♦	♦				♦	
OIL LEVEL TOO HIGH		♦		♦				
OIL LEVEL TOO LOW				♦				
WRONG SAE GRADE OF OIL		♦		♦				
OIL PUMP SUCTION LEAK				♦				
OIL LINE OR FILTER LEAK				♦				
CRANKSHAFT BEARING WORN				♦				
COMPRESSION LOW	♦		♦		♦		♦	
CYLINDERS OR RINGS WORN	♦				♦		♦	
VALVE GUIDES WORN					♦		♦	
DRIVE COUPLING FAILURE				♦				
FAN DRIVE OR IDLER FAILURE				♦				
RADIATOR CLOGGED		♦						
FAN BELT LOOSE OR BROKEN		♦