

**PARTS  
BOOK**

**MODEL G1600 FOUR CYLINDER ENGINE**  
**GASOLINE — NATURAL GAS — LPG**

**WHITE**  
**ENGINES, INC.**

CANTON, OHIO

*Makers of Hercules Engines Since 1915*

## POWER UNIT ACCESSORY PACKAGES

M14

## 9728340030 FRONT SUPPORT PACKAGE - CPU WITH PIERCE GOVERNOR

DELETIONS				ADDITIONS			
PART NUMBER	PART DESCRIPTION	ACTION	UQ	PART NUMBER	PART DESCRIPTION	ACTION	UQ
				40-0007155	FRONT SUPPORT - R. H.	ADD	1
				40-0007156	FRONT SUPPORT - L. H.	ADD	1
				0208171-00	SCREW SUPPORT TO MTG BASE	ADD	4
				0000512-00	LOCK WASHER - SUPP TO MTG BASE	ADD	4
				0005033-00	NUT - SUPPORT TO MTG BASE	ADD	4
				0208171-00	CAP SCREW - FRONT SUPPORT	ADD	5
				0000312-00	LOCK WASHER - FRONT SUPPORT	ADD	5

## 9728410050 AIR CLEANER PACKAGE - FOR OPU - MTD ON BELL HOUSING

DELETIONS				ADDITIONS			
PART NUMBER	PART DESCRIPTION	ACTION	UQ	PART NUMBER	PART DESCRIPTION	ACTION	UQ
				0000312-00	LOCK WASHER - BRKT TO B'HSG	ADD	4
				0000342-00	LOCK WASHER - CLAMP TO BRKT	ADD	2
				0000752-00	NUT - CLAMP TO BRACKET	ADD	2
				0002100-00	SCREW - BRKT TO B'HSG	ADD	1
				0004109-00	CLAMP - HOSE AT AIR CLEANER	ADD	1
				0004325-00	SCREW - CLAMP TO BRACKET	ADD	2
				40-0000625	AIR CLEANER	ADD	1
				40-0002756	CLAMP - HOSE	ADD	2
				40-0002757	CLAMP - HOSE AT CARB	ADD	1
				40-0007157	MOUNTING BRACKET - ON B'HSG	ADD	1
				40-0012202	MOUNTING CLAMP - AIR CLEANER	ADD	1
				40-0013602	HOSE - 13" LG.	ADD	1
				40-0015103	HOSE - CLEANER TO REAR HD COVER	ADD	1

## 9728620050 RADIATOR PACKAGE - FOR OPU

DELETIONS				ADDITIONS			
PART NUMBER	PART DESCRIPTION	ACTION	UQ	PART NUMBER	PART DESCRIPTION	ACTION	UQ
				0000342-00	LOCK WASHER - SUPPORT TO BRACE	ADD	2
				0000342-00	LOCK WASHER - SUPPORT TO BASE	ADD	4
				0000615-00	LOCK WASHER	ADD	4
				0000752-00	NUT - SUPPORT TO BRACE	ADD	2
				0004080-00	WASHER - SUPPORT TO BASE	ADD	4
				0004173-00	NUT	ADD	4
				0004325-00	BOLT - RADIATOR SUPPORT TO BRACE	ADD	2
				0006179-00	SCREW - RADIATOR SHROUD	ADD	4
				0013255-00	BOLT - RADIATOR SUPPORT TO BASE	ADD	4
				0207314-00	DRAIN COCK	ADD	1
				0208542-00	SEALANT IDENTIFICATION	ADD	1
				40-0002757	CLAMP	ADD	2
				40-0002757	CLAMP - AT WATER PUMP	ADD	1
				40-0002757	CLAMP - AT RADIATOR	ADD	1
				40-0003636	BRACE - RADIATOR SUPPORT	ADD	2
				40-0003637	SUPPORT - RADIATOR	ADD	2
				40-0008308	FLEX BOLT	ADD	4
				40-0012108	PELLET - STOP LEAK - PLACE IN RAD	ADD	1
				40-0013751	MOUNTING BASE - R.H.	ADD	1
				40-0013752	MOUNTING BASE - L.H.	ADD	1
				40-0014403	RADIATOR HOSE - TOP	ADD	1
				40-0014405	RADIATOR HOSE - LOWER	ADD	1
				40-2093602	RADIATOR	ADD	1
				40-2096701	SHROUD - RADIATOR	ADD	1

## 9728150020 LIFTING EYE PACKAGE

DELETIONS				ADDITIONS			
PART NUMBER	PART DESCRIPTION	ACTION	UQ	PART NUMBER	PART DESCRIPTION	ACTION	UQ
				FP 1 0206076-00	NUT	ADD	2
				FP 1 40-1098001	BOLT	ADD	2

# POWER UNIT ACCESSORY PACKAGES

## 9728290060 LPG CARBURETION PKG. FOR OPU

DELETIONS		ACTION	UQ	ADDITIONS		ACTION	UQ
PART NUMBER	PART DESCRIPTION			PART NUMBER	PART DESCRIPTION		
0014411-00	JOINT - BALL	RMV	1	•	0004786-00 BUSHING - REDUCING	ADD	1
40-2060051	CARBURETOR	RMV	1	•	0011428-00 JOINT - BALL	ADD	1
0285837-00	LEVER ASSY - THROTTLE	RMV	1	•	0011636-00 ELBOW - STREET	ADD	1
0204909-00	LEVER ASSY	RMV	1	•	0011636-00 ELBOW - STREET	ADD	1
0000615-00	WASHER - LOCK	RMV	2	•	0200128-00 NIPPLE	ADD	1
0001659-00	ELBOW	RMV	2	•	0204910-00 LEVER ASSY - CARB	ADD	1
0206511-00	PLUG - PIPE	RMV	1	•	0258615-00 CARBURETOR	ADD	1
0207426-00	CLAMP	RMV	1	•	0287640-00 VALVE	ADD	1
0208183-00	BOLT	RMV	2	•	0045684-00 GASKET - CARB	ADD	1
40-0011914	GASKET	RMV	1	•	0000615-00 WASHER - LOCK	ADD	2
40-0025051	FUEL LINE ASSY	RMV	1	•	0032059-00 PLATE - COVER	ADD	1
40-2055003	PUMP - FUEL	RMV	1	•	40-0011914 GASKET	ADD	1
0004461-00	LOCK WASHER	RMV	2	•	1000-12077 BOLT	ADD	2
0014741-00	NUT - LOCK	RMV	2	•	40-0001605 STUD - CARB	ADD	2
0045684-00	GASKET	RMV	1	•	0004461-00 LOCK WASHER - CARB	ADD	2
40-0001605	STUD	RMV	2	•	0014741-00 NUT - LOCK - CARB	ADD	1

## 9728360020 DIODE PACKAGE

DELETIONS		ACTION	UQ	ADDITIONS		ACTION	UQ
PART NUMBER	PART DESCRIPTION			PART NUMBER	PART DESCRIPTION		
				•	40-2503601 IN LINE DIODE	ADD	1

NOTE:

## DATA SHEET

This is a Standard Power Unit Build. Modifications have been made from this power unit. Check engine ID plates for the engine serial no. and model no. Call factory to obtain parts information.

SPECIFICATION NO. G1600X151

FAN POSITION

SHEET 1 OF 5

DATE: JANUARY 15, 1982

Figure 1. Cylinder Block Group A per page no. 5

REF. NO.	QTY.	PART NO.	DESCRIPTION
0	1	40-2000362	Cylinder Block Kit
0	1	40-2000361	. Cylinder Block Assembly
0	1	40-2000360	. . Cylinder Block Subassembly
16	1	40-0012603	. . Tube, Oil Filler
17	1	360027	. . Tube, Oil Level Indicator
0	1	NOT FURNISHED	. . Plug, Cup (Used in place of Ref. Nos. 16, 23)
0	1	NOT FURNISHED	. . Plug, Cup (Used in place of Ref. Nos. 17, 24)
23	1	40-0000111	Cap, Oil Filler Tube
24	1	40-2091002	Bayonet Gauge

Figure 2. Cylinder Head Group A per page no. 7

Figure 3. Cylinder Head Cover Group A per page no. 7

REF. NO.	QTY.	PART NO.	DESCRIPTION
1	1	40-2020152	Cover, Cylinder Head
4	1	360106	Cap, Oil Filler
8	1	NOT FURNISHED	Elbow, Crankcase Vent - In Manifold
9	1	NOT FURNISHED	Valve, Vent - In Elbow
10	2	NOT FURNISHED	Union - In Vent Valve and Cylinder Head Cover
11	1	NOT FURNISHED	Tube Assembly, Vent

Figure 4. Front Housing Group A per page no. 9

REF. NO.	QTY.	PART NO.	DESCRIPTION
0	1	40-2015360	Cover Assembly, Front

Figure 5. Bellhousing, Flywheel, Ring Gear Standard Group A per page no. 9

REF. NO.	QTY.	PART NO.	DESCRIPTION
1	1	40-2040002	Bellhousing
0	1	40-2045352	Flywheel and Ring Gear Assembly
5	1	40-2045101	. Ring Gear
6	6	40-0001304	Bolt, Flywheel

Figure 6. Crankshaft Group A per page no. 11

REF. NO.	QTY.	PART NO.	DESCRIPTION
6	1	40-2080002	Pulley, Crankshaft

Figure 7. Piston and Connecting Rod Group A per page no. 11

Figure 8. Camshaft Group A per page no. 13



Figure 9. Rocker Arm Group A per page no. 13

Figure 10. Manifold Group A per page no. 15

REF. NO.	QTY.	PART NO.	DESCRIPTION
2	1	40-2032901	Manifold, Exhaust
3	1	40-2030203	Manifold, Intake
7	1	40819	Gasket, Companion Flange
8	1	40-2093702	Flange, Companion
9	2	14058	Screw, Companion Flange

Figure 11. Oil Pan Group A per page no. 15

REF. NO.	QTY.	PART NO.	DESCRIPTION
1	1	40-2018601	Oil Pan

Figure 12. Oil Pump Group A per page no. 17

Figure 13. Hydraulic Pump Drive Group A per page no. 19 NOT FURNISHED

REF. NO.	QTY.	PART NO.	DESCRIPTION
0	1	NOT FURNISHED	Hydraulic Pump

Figure 14. Oil Filter Group A (Up Position) per page no. 19 NOT FURNISHED

Figure 14. Oil Filter Group B (Down Position) per page no. 19

Figure 15. Water Pump Group A (High Fan Position) per page no. 21 NOT FURNISHED

Figure 15. Water Pump Group B (Low Fan Position) per page no. 21

REF. NO.	QTY.	PART NO.	DESCRIPTION
1	1	40-2035057	Water Pump and Adapter Assembly
8	1	40-2092602	Adapter, Water Pump Pulley
11	1	NOT FURNISHED	Spacer, Fan Blade
12	1	40-2080902	Pulley, Water Pump
13	4	615	Lockwasher, Fan Blade
14	4	1000-15079	Screw, Fan Blade
15	1	286408	Blade, Fan
16	1	140676	Belt, Drive

Figure 16. Thermostat Housing Group A (High Fan Position) per page no. 23 NOT FURNISHED

REF. NO.	QTY.	PART NO.	DESCRIPTION
3	1	NOT FURNISHED	Housing Assembly, Shaft and Adapter
4	1	NOT FURNISHED	Housing, Thermostat
5	1	NOT FURNISHED	Bearing and Shaft Assembly
6	1	NOT FURNISHED	Adapter, Pulley

DATE: JANUARY 15, 1982

Figure 16. Thermostat Housing Group A (High Fan Position) per page no. 23 (continued)

REF. NO.	QTY.	PART NO.	DESCRIPTION
7	3	NOT FURNISHED	Washer, Thermostat Housing, Attaching Screw
8	3	NOT FURNISHED	Screw, Thermostat Housing, Attaching
9	1	NOT FURNISHED	Pulley
10	1	NOT FURNISHED	Spacer, Fan Blade
11	1	NOT FURNISHED	Blade, Fan
12	4	NOT FURNISHED	Lockwasher, Fan Blade Attaching
13	4	NOT FURNISHED	Screw, Fan Blade Attaching
14	1	NOT FURNISHED	Belt, Fan

Figure 16. Thermostat Housing Group B (Low Fan Position) per page no. 23

Figure 17. Carburetor Group A Direct Mounted (No Adapter) per page no. 25

REF. NO.	QTY.	PART NO.	DESCRIPTION
1	1	40-2060051	Carburetor and Solenoid Assembly
2	1	-----	. Carburetor
3	1	40-2501014	. Solenoid
4	1	INCL. W/ASSY.	. Lever
5	1	INCL. W/ASSY.	. Lever
0	1	40-2060057	Kit, Carburetor Repair

Figure 17. Carburetor and Adapter Group B (7/8" U.D.) per page no. 27 NOT FURNISHED

Figure 17. Carburetor and Adapter Group C (1-1/4" U.D.) per page no. 27 NOT FURNISHED

REF. NO.	QTY.	PART NO.	DESCRIPTION
1	1	NOT FURNISHED	Carburetor and Solenoid Assembly
2	1	NOT FURNISHED	. Carburetor
3	1	NOT FURNISHED	. Solenoid
4	1	NOT FURNISHED	. Lever
5	1	NOT FURNISHED	. Lever
0	1	NOT FURNISHED	Kit, Carburetor Repair

Figure 18. Fuel Pump Group A per page no. 29

REF. NO.	QTY.	PART NO.	DESCRIPTION
5	2	1659	Elbow - In Fuel Pump & Side of Carburetor
6	1	40-0025051	Line Assembly, Fuel
7	1	207428	Clamp - Apply at Thermostat Housing Bolt
0	1	206511	Plug, Pipe - In Rear of Carburetor

Figure 18. Fuel Pump Group B (Hole Cover) per page no. 29 NOT FURNISHED

REF. NO.	QTY.	PART NO.	DESCRIPTION
3	2	NOT FURNISHED	Spacer
5	2	NOT FURNISHED	Screw, Attaching

DATE: JANUARY 15, 1982

Figure 19. Distributor and Parts Group A per page no. 29

REF. NO.	QTY.	PART NO.	DESCRIPTION
1	1	40-2500610	Distributor
0	4	53594	Spark Plugs
0	1	40-2504807	Cap, Distributor (For Service)
0	1	40-2505157	Kit, Ignition Tune-Up (For Service)

Figure 20. Starter Group A per page no. 31

REF. NO.	QTY.	PART NO.	DESCRIPTION
1	1	40-2500429	Starter

Figure 20. Starter Group B (Wet Clutch Option) per page no. 31 NOT FURNISHED

REF. NO.	QTY.	PART NO.	DESCRIPTION
1	1	NOT FURNISHED	Starter
2	3	NOT FURNISHED	Screw
3	3	NOT FURNISHED	Lockwasher
4	1	NOT FURNISHED	Adapter
5	2	NOT FURNISHED	Gasket

Figure 21. Rear Mounted Governor Group A (Pierce) per page no. 33

REF. NO.	QTY.	PART NO.	DESCRIPTION
1	1	40-2065153	Governor Gear and Body Assembly

Figure 21. Rear Mounted Governor Group B (Hoof) per page no. 33 NOT FURNISHED

REF. NO.	QTY.	PART NO.	DESCRIPTION
1	1	NOT FURNISHED	Governor Assembly
15	1	NOT FURNISHED	Connecting Rod, Governor

Figure 21. Front Mounted Governor Group C (Hoof) per page no. 35 NOT FURNISHED

REF. NO.	QTY.	PART NO.	DESCRIPTION
1	1	NOT FURNISHED	Governor and Drive Adapter Assembly
12	1	NOT FURNISHED	Rod, Governor Connecting

Figure 21. Governor Opening Cover Group D (Rear Mounted) per page no. 35 NOT FURNISHED

Figure 21. Governor Opening Cover Group E (Front Mounted) per page no. 35 NOT FURNISHED

Figure 22. Alternator Group A per page no. 37

REF. NO.	QTY.	PART NO.	DESCRIPTION
16	1	40-2501519	Alternator
17	1	MTD. ON ALT.	Regulator
18	1	INCL. W/ASSY.	Fan, Alternator
19	1	40-2082802	Pulley, Alternator
0	1	40-2505364	Alternator, Fan and Pulley Assembly

Figure 22. Alternator Group B per page no. 37

NOT FURNISHED

REF. NO.	QTY.	PART NO.	DESCRIPTION
19	1	NOT FURNISHED	Alternator
20	1	NOT FURNISHED	Regulator
22	1	NOT FURNISHED	Fan, Alternator
23	1	NOT FURNISHED	Pulley, Alternator
0	1	NOT FURNISHED	Alternator, Fan and Pulley Assembly

Figure 23. Idler Group A per page no. 39

NOT FURNISHED

Figure 23. Idler Group B per page no. 39

NOT FURNISHED

Figure 23. Idler Group C per page no. 39

## OTHER PARTS FURNISHED BUT NOT SHOWN BY ILLUSTRATIONS:

- 1 - 250295 Decal - Negative Ground - Apply on Starter
- 1 - 40-2502205 Wiring Diagram
- 1 - 40-0019806 Decal - Apply to Top of Cyl. Head Cover
- 1 - 14501 Screw - Gov. Stop Front Plate (Replaces (1) 206525)
- 1 - 1000-14294 Screw - Gov. Stop Front Plate (Replaces (1) 8533)
- 1 - 40-0020572 Stop - Governor Lever
- 1 - 13337 Nut - Gov. Lever Stop
- 1 - 205293 Screw - Gov. Lever Stop
- 1 - 628 L'Washer, Gov. Lever Stop

## POWER UNIT PARTS ARE LISTED IN THE FOLLOWING PACKAGES:

- |            |               |                                   |
|------------|---------------|-----------------------------------|
| 9728340030 | Front Support | See page 18 in Acc. Pkg. Section  |
| 9728410050 | Air Cleaner   | See page 21A in Acc. Pkg. Section |
| 9728620050 | Radiator      | See page 23B in Acc. Pkg. Section |



# **WHITE**

## **ENGINES, INC.**

CANTON, OHIO

*Makers of Hercules Engines Since 1915*

### **INTRODUCTION**

#### **READ CAREFULLY BEFORE USING THIS BOOK**

This parts book has been prepared to accommodate the Model G-1600 Series Engines. It has been designed to allow for expansion to incorporate new parts and to facilitate updating when new design advances are incorporated into production.

Parts illustrated are typical of those used on Model G-1600 Series Engines but may differ on various applications. For this reason, data sheets will be furnished to be used in conjunction with this book as a guide to locate part number(s) needed. Each data sheet has been assigned for a particular specification and is identified with the specification number on the upper right side of the data sheet. The specification number, and engine serial number, will be found on the engine instruction plate. Engine and power unit identification is explained on page no. 2.

### **IMPORTANT INSTRUCTIONS**

#### **To Find Parts Needed:**

- Step 1. Always refer to the proper data sheet to determine which parts group in the parts book to use.
- Step 2. Whenever "See Data Sheet" appears in the parts book, the proper part number will be listed on the data sheet.
- Step 3. The data sheet will indicate, whenever applicable, a part number that replaces a part listed in the parts book.
- Step 4. When "Not Furnished" appears before a part or after the parts group on the data sheet, these parts were not furnished by White Engines for that particular specification.
- Step 5. To find the standard power unit parts, see sheet no. 5 of the Data Sheet for the power unit accessory package number. Then turn to the Accessory Package Section and locate the required accessory package number. If the identification plate indicates the unit has been modified, see page no. 2 for power unit identification plate examples, to find the part(s) required refer to the instruction page in the Power Unit Accessory Package Section.

One dot (.) preceding a description indicates parts used in a complete assembly. Two or more dots (.. ) preceding a description indicates parts used in a sub-assembly for the previously listed assembly.

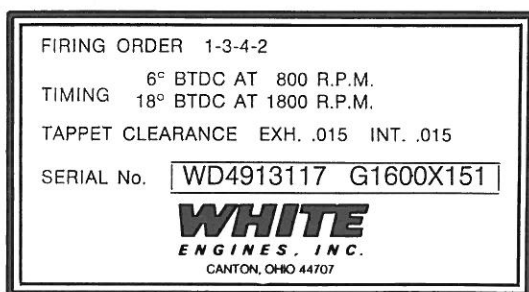
When ordering parts, please furnish the engine serial number and the specification number. All reference to the right or left hand side of the engines is determined when facing the bellhousing end.

Standard and oversizes are available for piston assemblies and ring sets. Standard and undersizes are available for connecting rod and main bearings. All numbers for standard, over, or undersizes are listed in the respective groups of the parts book. Connecting rod bearings are available in pairs and ring sets and main bearings as complete engine sets only.

For all parts and service information, contact the White Engines, Inc. distributor in your area. If unable to locate a distributor, contact White Engines, Inc., Service Parts Sales Department, 101 Eleventh Street, S.E., Canton, Ohio 44707. Phone 216-454-5631; Telex 98-3439; Cable Code — Hercano.

## ENGINE OR POWER UNIT IDENTIFICATION PLATES

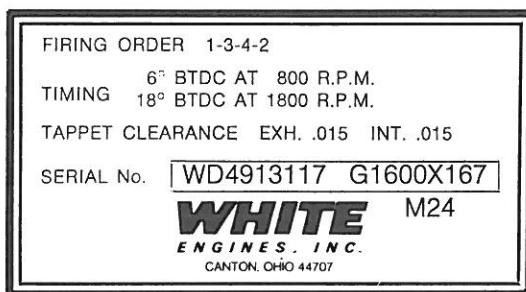
### EXAMPLE NO. 1: ENGINE OR POWER UNIT IDENTIFICATION



To order the proper engine parts, the specification number must be used to locate the data sheet for the engine or unit to be served.

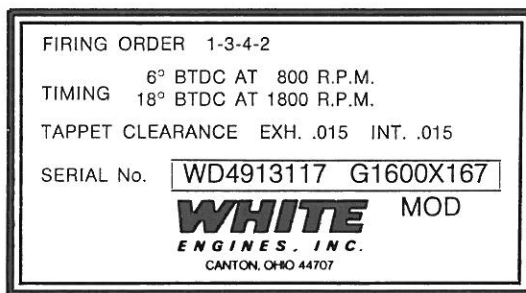
The instruction plate illustrated above shows the serial number and specification number along with other information pertaining to the engine. The plate is typical of those found on all White engines and is located at the rear left-hand side of the engine as seen from the Bellhousing end.

### EXAMPLE NO. 2: POWER UNIT MODIFICATION IDENTIFICATION



To order the proper engine or modified unit parts from this book, you must know the engine serial number and specification number and modification letter and number. The modification number is stamped on the plate as illustrated on the above example plate. The plate is typical of those found on all White engines and is located at the rear left-hand side of the engine as seen from the Bellhousing end. See cross reference index for modification breakdown to accessory packages.

### EXAMPLE NO. 3: POWER UNIT ACCESSORY PACKAGE IDENTIFICATION



This identification plate indicates the standard power unit, open or closed type, has been modified. Call the factory and provide the engine serial number to obtain parts information.

If any of these plates are damaged or missing, the engine serial number can be found stamped into a machined pad on the left-hand side of the cylinder block below the bayonet gauge boss. A cross reference can be made by the Factory from the serial number to the specification number or power unit modification numbers when the need arises.

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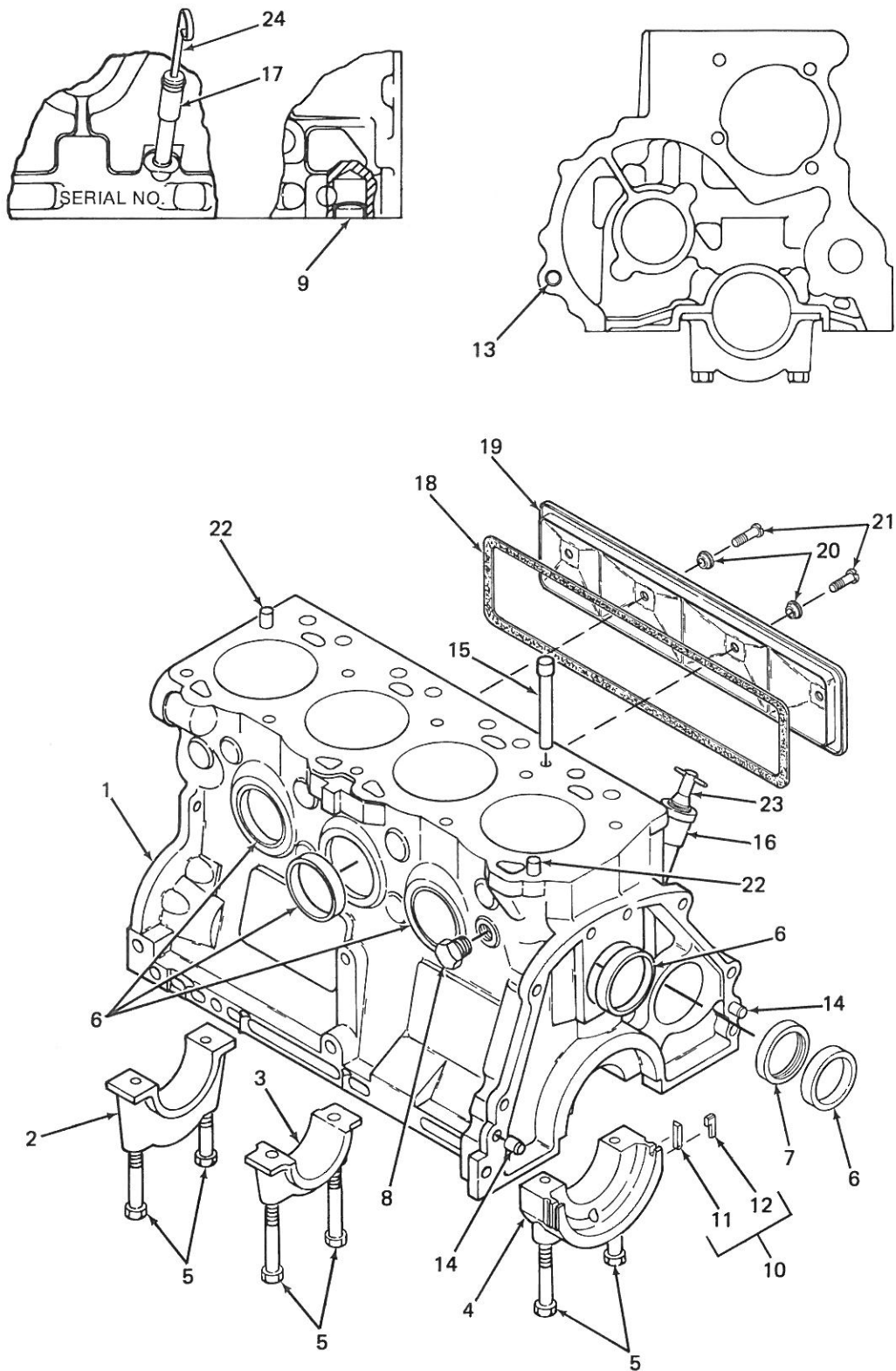


FIGURE 1. CYLINDER BLOCK GROUP A



FIGURE 1. CYLINDER BLOCK GROUP A

REF. NO.	PART NO.	DESCRIPTION	QTY.
	See Data Sheet	Cylinder Block Kit	1
	See Data Sheet	. Cylinder Block Assembly	1
	See Data Sheet	. . Cylinder Block Subassembly	1
1	NSS	. . . Block, Cylinder	1
2	NSS	. . . Cap, Front Main Bearing	1
3	NSS	. . . Cap, Center Main Bearing	1
4	NSS	. . . Cap, Rear Main Bearing	1
5	40-1091705	. . . Bolt, Main Bearing Cap	6
6	206165	. . . Plug, Cup	5
7	360025*	. . . Bearing, Camshaft	3
8	620	. . Plug, Pipe, Water Drain (1/4")	1
9	204473	. . Plug, Cup, Cylinder Block Rail - Front	1
10	360181	. Seal Set, Rear Main Bearing Cap	1
11	360006	. . Seal, Rear Main Bearing	2
12	360007	. . Seal, Rear Main Bearing Cap	2
13	40-0001101	. . Pin, Dowel, Front Plate and Front Cover	1
14	2153-24644	. . Pin, Dowel, Flywheel Housing	2
15	360026	. . Tube, Distributor Gear Oiling	1
16	See Data Sheet	. . Tube, Oil Filler	1
17	See Data Sheet	. . Tube, Oil Level Indicator	1
18	40-1093424	. Gasket, Push Rod Cover	1
19	360069	. Cover, Push Rod	1
20	360071	. Seal, Push Rod Cover Attaching Bolt	4
21	208425	. Bolt, Push Rod Cover Attaching	4
22	206069	Ring, Dowel, Cylinder Head to Block	2
23	See Data Sheet	Cap, Oil Filler Tube	1
24	See Data Sheet	Bayonet Gauge	1

\* For service use: 40-1091451 Camshaft Bearing Assembly.

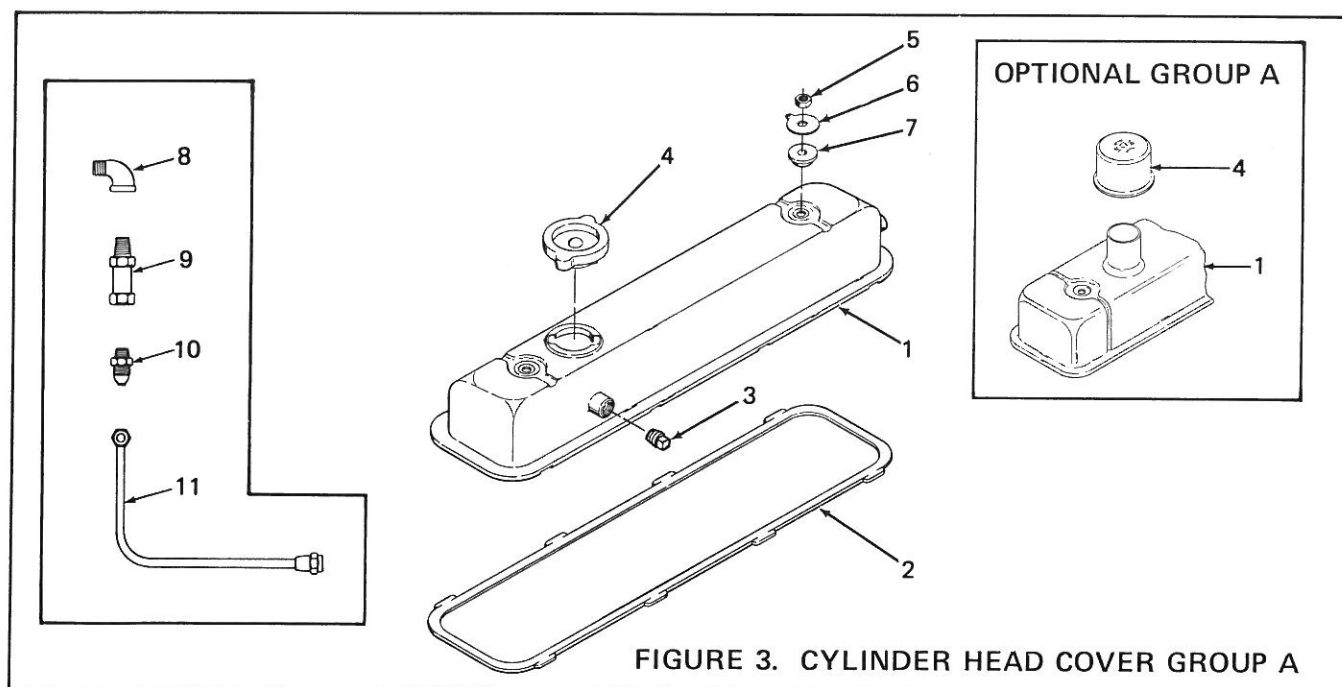
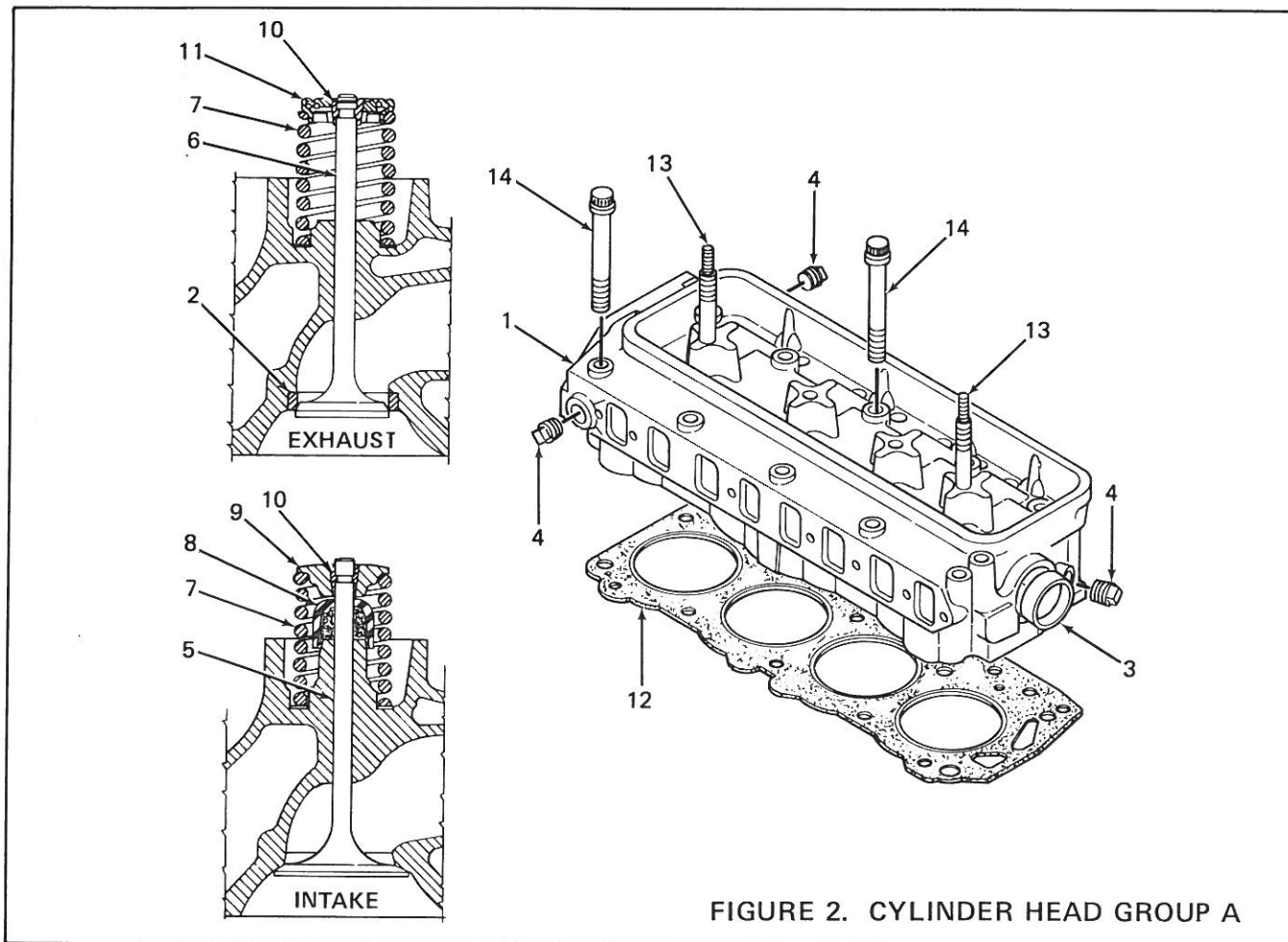


FIGURE 2. CYLINDER HEAD GROUP A

REF. NO.	PART NO.	DESCRIPTION	QTY.
	40-2020566	Cylinder Head Assembly, W/Valves	1
	40-2020565	. Cylinder Head Assembly, L/Valves	1
	40-2020564	. . Cylinder Head Assembly and Insert	1
1	40-2020505	. . . Head, Cylinder	1
2	40-2022901	. . . Insert, Exhaust Valve Seat	4
3	11442	. . Plug, Cup	1
4	4312	. . Plug, Pipe	3
5	40-2022507	. Valve, Intake	4
6	40-2022508	. Valve, Exhaust	4
7	40-2091315	. Spring, Valve, Intake and Exhaust	8
8	360086	. Seal, Intake Valve	4
9	40-2091308	. Retainer, Intake Valve	4
10	360088	. Key	16
11	40-2091314	. Rotator, Exhaust Valve	4
12	40-2090634	Gasket, Cylinder Head	1
13	40-0001601	Stud, Rocker Arm Support and Cover	2
14	40-0001337	Bolt, Cylinder Head	10

FIGURE 3. CYLINDER HEAD COVER GROUP A

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	See Data Sheet	Cover, Cylinder Head	1
2	40-2090606	Gasket, Cover	1
3	620	Plug, Pipe	1
4	See Data Sheet	Cap, Oil Filler	1
5	28	Nut, Cylinder Head Cover	2
6	360095	Retainer, Cylinder Head Cover Seal	2
7	360094	Seal, Cylinder Head Cover Nut	2
8	See Data Sheet	Elbow, Crankcase Vent - In Manifold	1
9	See Data Sheet	Valve, Vent - In Elbow	1
10	See Data Sheet	Union - In Vent Valve and Cylinder Head Cover	2
11	See Data Sheet	Tube Assembly, Vent	1

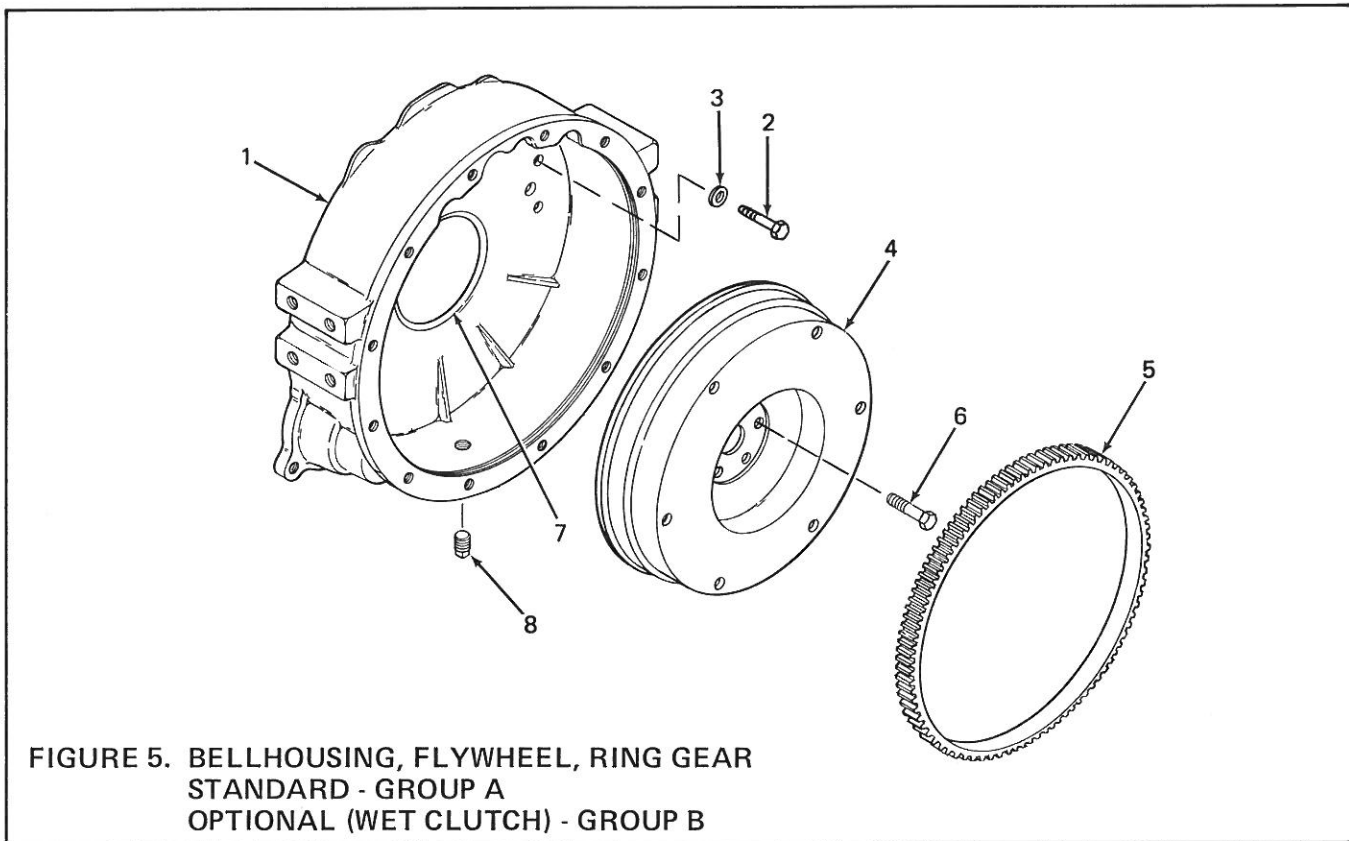
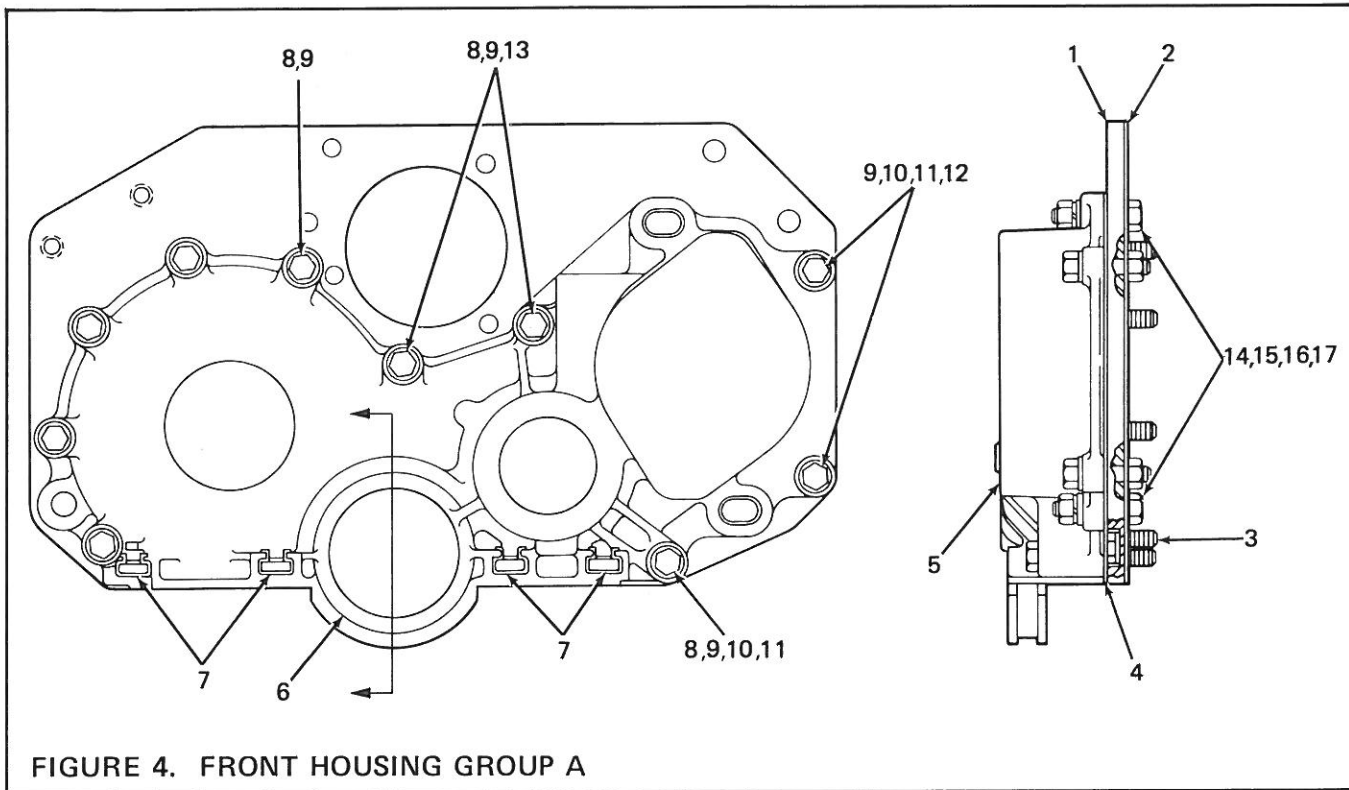




FIGURE 4. FRONT HOUSING GROUP A

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	40-2015404	Plate, Front	1
2	40-2090603	Gasket, Front Plate	1
3	208181	Capscrew, Front Plate	1
4	40-2090618	Gasket, Front Cover	1
	See Data Sheet	Cover Assembly, Front	1
5	NSS	. Cover, Front	1
6	360304	. Seal, Oil	1
7	40-0001718	. Nut, Tinnerman	4
8	206615	Capscrew, Front Cover and Plate	8
9	14529	Washer, Plain, Front Cover and Plate	10
10	615	Lockwasher, Front Cover and Plate	3
11	4173	Nut, Front Cover and Plate	3
12	206525	Capscrew, Front Cover and Plate	2
13	207276	Lockwasher	2
14	8533	Screw, Front Cover and Plate	2
15	4410	Washer, Plain	2
16	312	Lockwasher	2
17	5033	Nut	2

FIGURE 5. BELLHOUSING, FLYWHEEL, RING GEAR  
STANDARD - GROUP A

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	See Data Sheet	Bellhousing	1
2	1000-28150	Screw	8
3	14416	Washer	8
	See Data Sheet	Flywheel and Ring Gear Assembly	1
4	NSS	. Flywheel	1
5	See Data Sheet	. Ring Gear	1
6	See Data Sheet	Bolt, Flywheel	6

OPTIONAL (WET CLUTCH) - GROUP B

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	See Data Sheet	Bellhousing	1
2	1000-28150	Screw	8
3	14416	Washer	8
	See Data Sheet	Flywheel and Ring Gear Assembly	1
4	NSS	. Flywheel	1
5	See Data Sheet	. Ring Gear	1
6	See Data Sheet	Bolt, Flywheel	6
7	40-0003211	Oil Seal	1
8	4312	Plug, Pipe, Oil Drain	1

FIGURE 6. CRANKSHAFT GROUP A

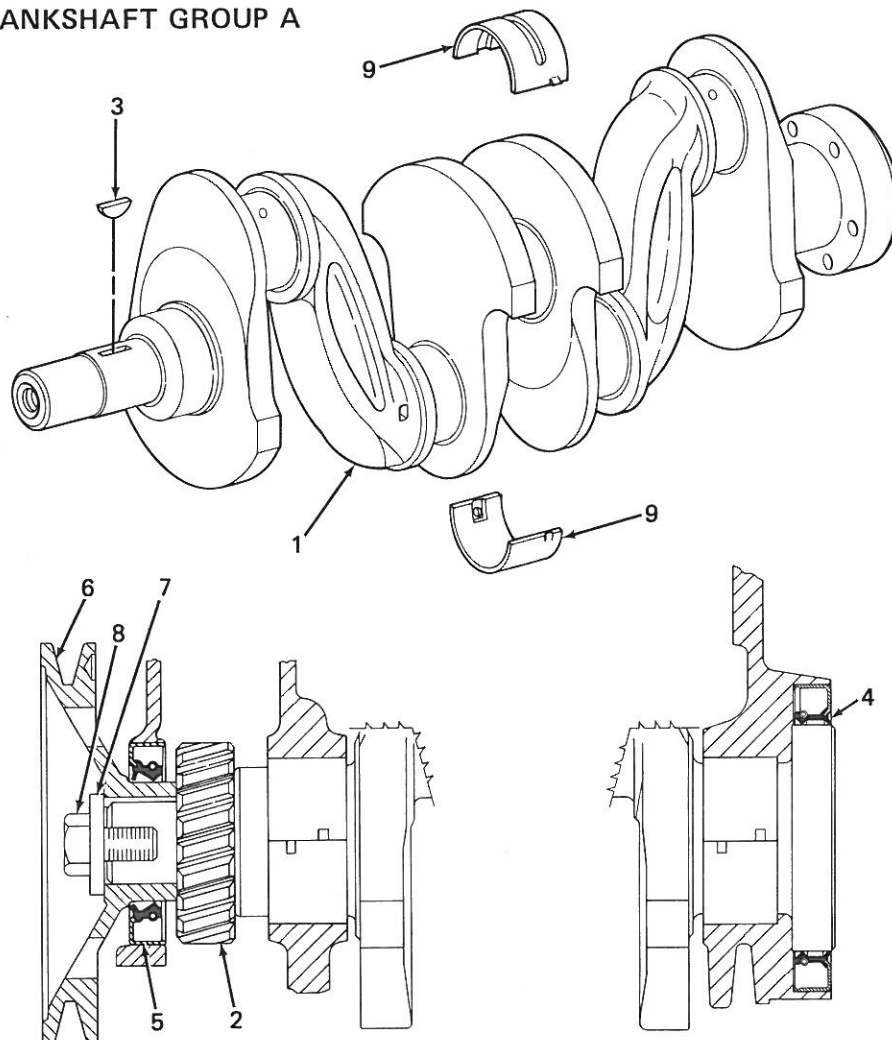


FIGURE 7. PISTON AND CONNECTING ROD GROUP A

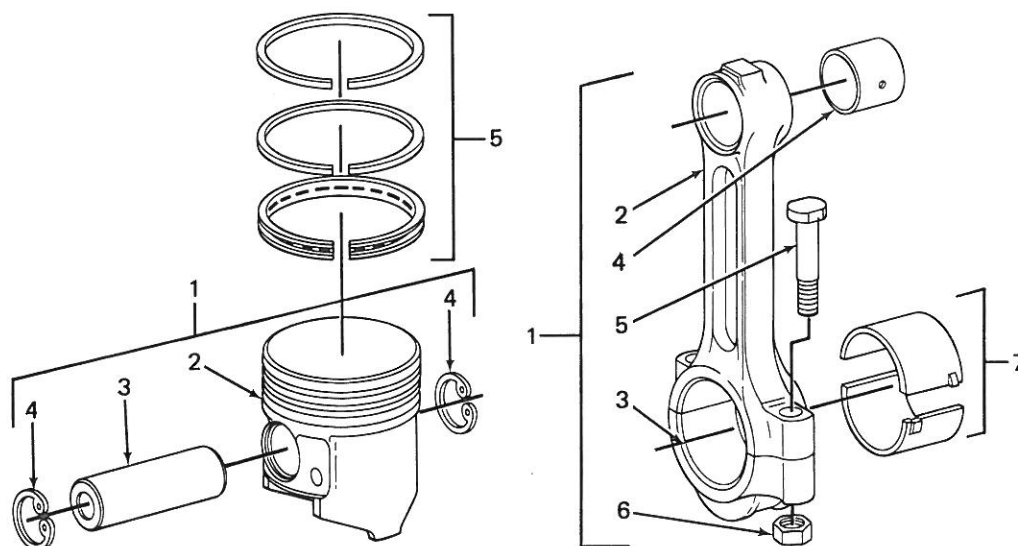


FIGURE 6. CRANKSHAFT GROUP A

REF. NO.	PART NO.	DESCRIPTION	QTY.
	40-2002653	Crankshaft, Gear, and Bearing Assembly	
	NSS	. Crankshaft Assembly	1
1	40-2002601†	. . Crankshaft	1
2	40-2075002†	. . Gear	1
3	72†	. . Key	1
4	360306	Seal, Rear Oil	1
5		Seal, Front Oil - See Front Housing Group	1
6	See Data Sheet	Pulley, Crankshaft	1
7	40-0001502	Washer	1
8	206054	Bolt	1
	NSS*	Bearing, Main (Front and Rear - Upper)	2
	NSS*	Bearing, Main (Front and Rear - Lower)	2
	NSS*	Bearing, Main (Center Upper and Lower)	2
9	40-2090251†	. Set, Main Bearing (STD.)	1
9	40-2090261	Set, Main Bearing (.010 U.S.)	1
9	40-2090271	Set, Main Bearing (.020 U.S.)	1
9	40-2090281	Set, Main Bearing (.030 U.S.)	1

†Parts are included in 40-2002653.

\*Parts are included in 40-2090251.

FIGURE 7. PISTON AND CONNECTING ROD GROUP A

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	40-2010152	Piston, Pin, and Retainer Assembly (STD.)	4
1	40-2010192	Piston, Pin, and Retainer Assembly (.020 O.S.)	4
1	40-2010172	Piston, Pin, and Retainer Assembly (.040 O.S.)	4
2	NSS	. Piston	4
3	NSS	. Pin	4
4	40-0000707	. Retainer	8
5	40-2010251	Kit, Piston Ring (STD.)	1
5	40-2010271	Kit, Piston Ring (.020 O.S.)	1
5	40-2010291	Kit, Piston Ring (.040 O.S.)	1
1	40-2007651	Connecting Rod Assembly	4
2	NSS	. Rod	4
3	NSS	. Cap	4
4	40-2090101	. Bushing	4
5	360161	. Bolt	8
6	1500-04322	. Nut	8
7	40-2090252	Bearing, Connecting Rod (Pair) (STD.)	
7	40-2090262	Bearing, Connecting Rod (Pair) (.010 U.S.)	
7	40-2090272	Bearing, Connecting Rod (Pair) (.020 U.S.)	
7	40-2090292	Bearing, Connecting Rod (Pair) (.030 U.S.)	
7	360176	Set, Connecting Rod Bearing (STD.)	
7	360176-10	Set, Connecting Rod Bearing (.010 U.S.)	
7	360176-20	Set, Connecting Rod Bearing (.020 U.S.)	
7	360176-30	Set, Connecting Rod Bearing (.030 U.S.)	

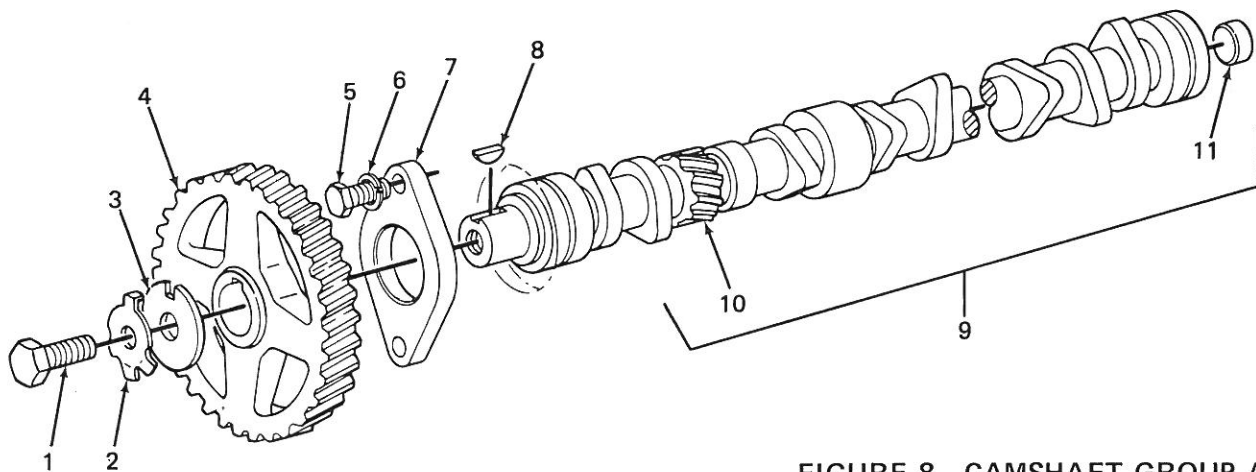


FIGURE 8. CAMSHAFT GROUP A

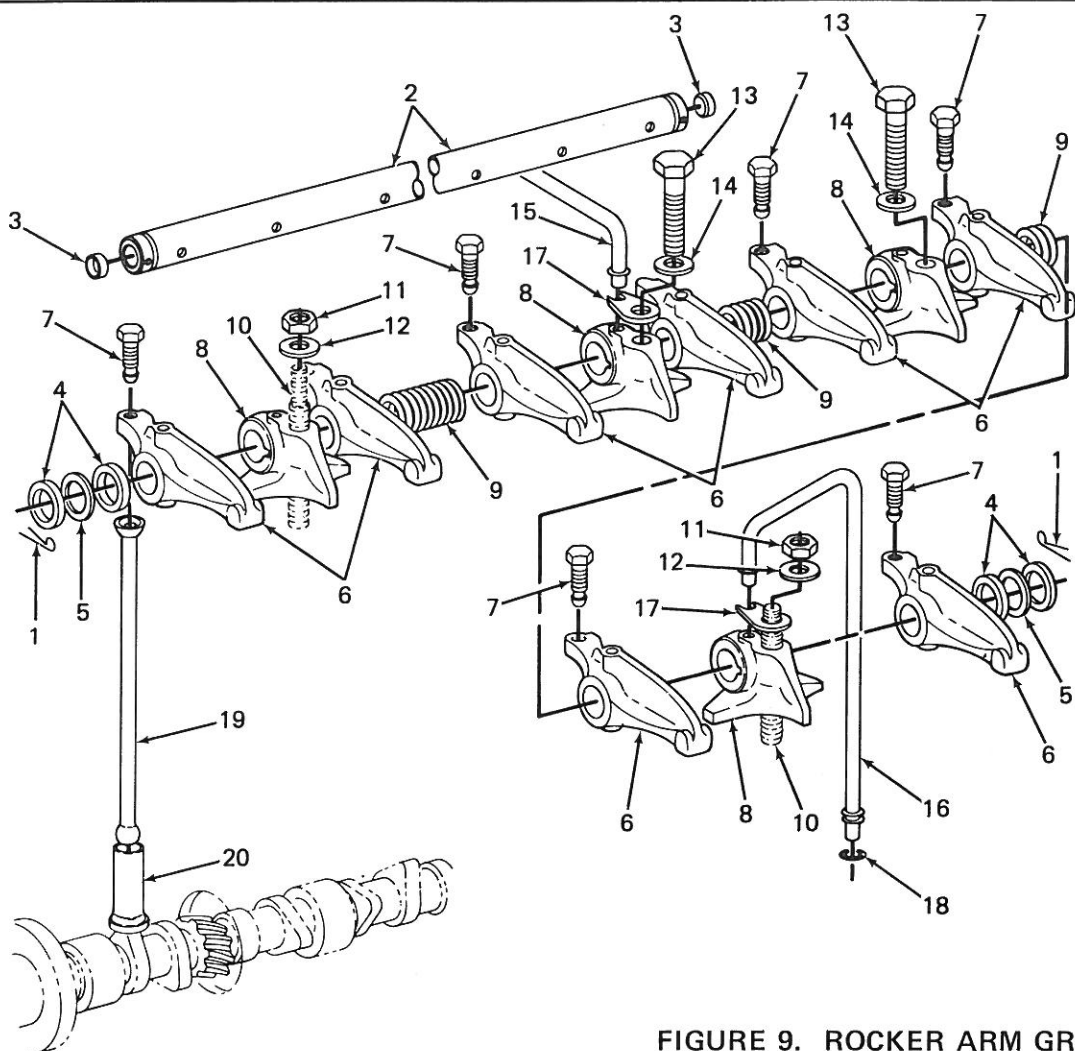


FIGURE 9. ROCKER ARM GROUP A



FIGURE 8. CAMSHAFT GROUP A

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	40-0026102	Bolt	1
2	360013	Lock	1
3	360011	Retainer	1
4	40-2075101	Gear	1
5	1000-12080	Bolt	2
6	615	Lockwasher	2
7	40-2090401	Plate	1
8	40-0002003	Key	1
9	40-2003752	Camshaft Assembly	1
10	NSS	. Camshaft	1
11	206052	. Plug	1

FIGURE 9. ROCKER ARM GROUP A

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	206095*	Pin, Cotter	2
	360150*	Rocker Arm Shaft Assembly	1
2	NSS	. Shaft	1
3	206065	. Plug	2
4	206116*	Washer	4
5	360060*	Washer	2
	40-1005252*	Rocker Arm Assembly	8
6	NSS	. Arm	8
7	360057	. Screw	8
8	360059*	Support, Rocker Arm Shaft	4
9	360058*	Spring	3
10	40-0001601	Stud	2
11	2048	Nut	2
12	14566	Washer	2
13	208247	Bolt	2
14	4732	Lockwasher	2
15	40-2091103	Tube, Rocker Arm Shaft Lube	1
16	40-2091102	Tube, Rocker Arm Shaft Lube Pressure	1
17	360105	Bracket, Lube Tube	2
18	375294	Seal, Lube Tube	1
19	360068	Push Rod	8
20	360008	Valve Tappet	8
	360151	Rocker Arm and Shaft Assembly	1

\* Included in 360151 Rocker Arm and Shaft Assembly.

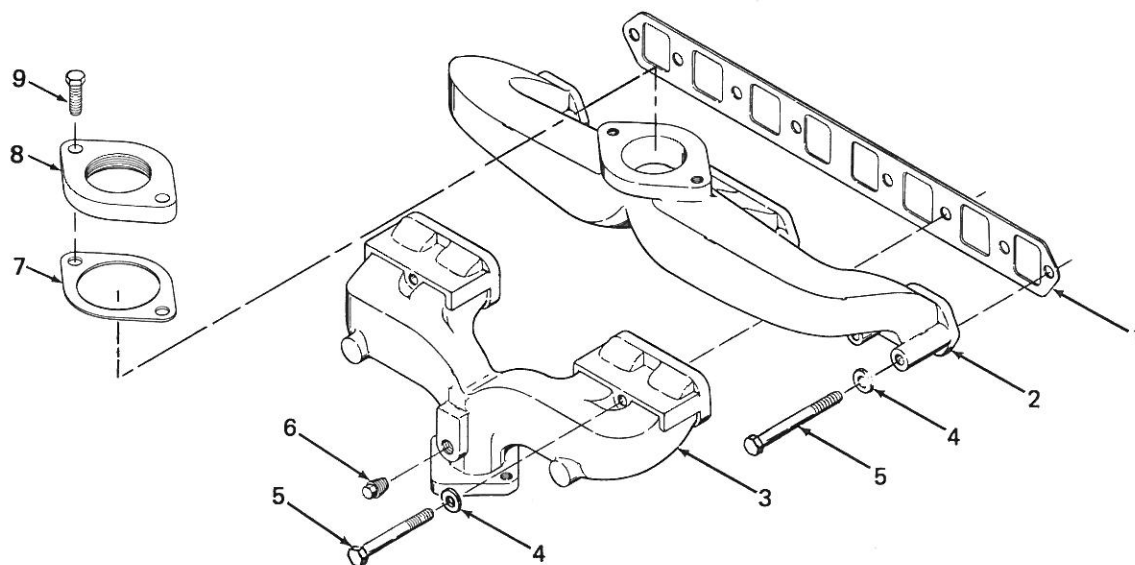


FIGURE 10. MANIFOLD GROUP A

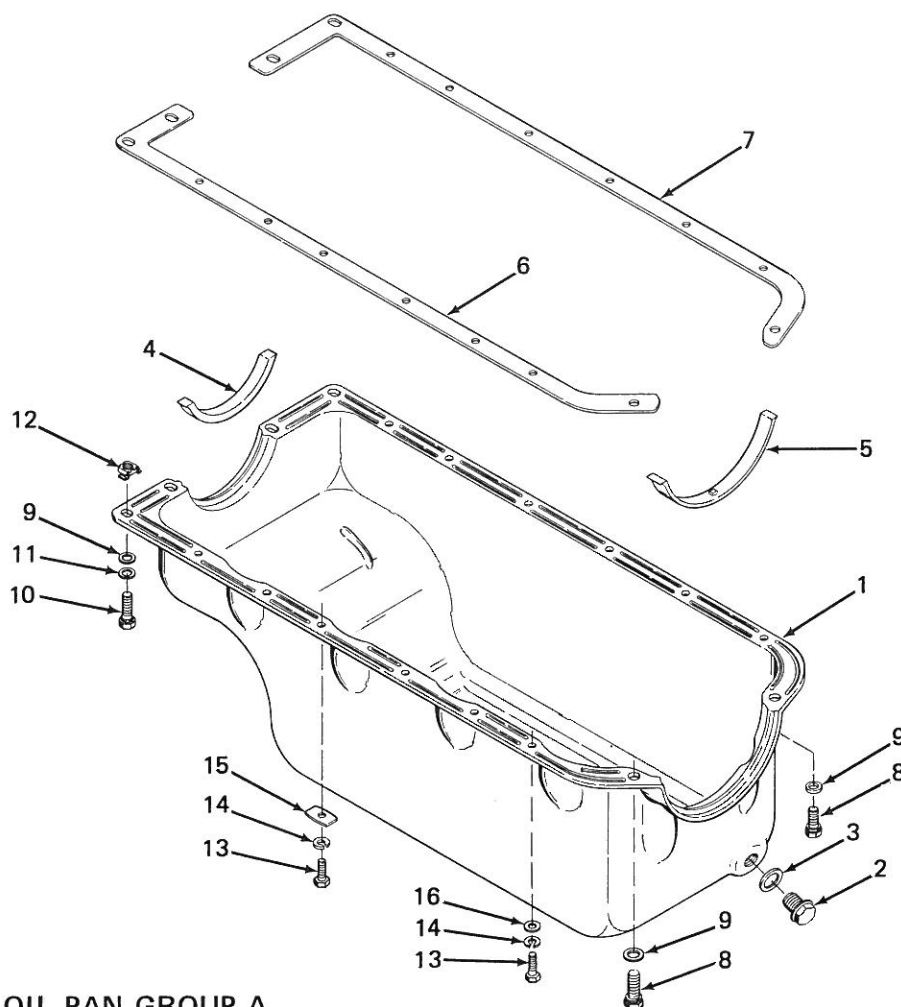


FIGURE 11. OIL PAN GROUP A

**FIGURE 10. MANIFOLD GROUP A**

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	40-2090617	Gasket, Intake and Exhaust Manifold Attaching	1
2	See Data Sheet	Manifold, Exhaust	1
3	See Data Sheet	Manifold, Intake	1
4	13380	Washer, Intake and Exhaust Manifold Attaching Screw	8
5	1000-26159	Screw, Intake and Exhaust Manifold Attaching	8
6	620	Plug, Pipe - In Intake Manifold	1
7	See Data Sheet	Gasket, Companion Flange	1
8	See Data Sheet	Flange, Companion	1
9	See Data Sheet	Screw, Companion Flange	2

**FIGURE 11. OIL PAN GROUP A**

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	See Data Sheet	Oil Pan	1
2	40-0000118	Plug, Drain	1
3	40-2090632	Gasket, Drain	1
4	360062	Seal, Oil Pan - Front	1
5	360063	Seal, Oil Pan - Rear	1
6	40-2090616	Gasket, Oil Pan - L.H.	1
7	40-2090615	Gasket, Oil Pan - R.H.	1
8	201991	Screw and Lockwasher Assembly - Rear	2
9	14529	Washer, Plain	6
10	208183	Screw - At Front End	4
11	615	Lockwasher - At Front End	4
12		Nut (Tinnerman) - At Front End - See Front Housing Group	4
13	1000-12007	Screw, Oil Pan Attaching	12
14	628	Lockwasher, Oil Pan Screw Attaching	12
15	360067	Washer, Spring, Oil Pan Attaching	11
16	14162	Washer, Plain, Oil Pan Attaching	1

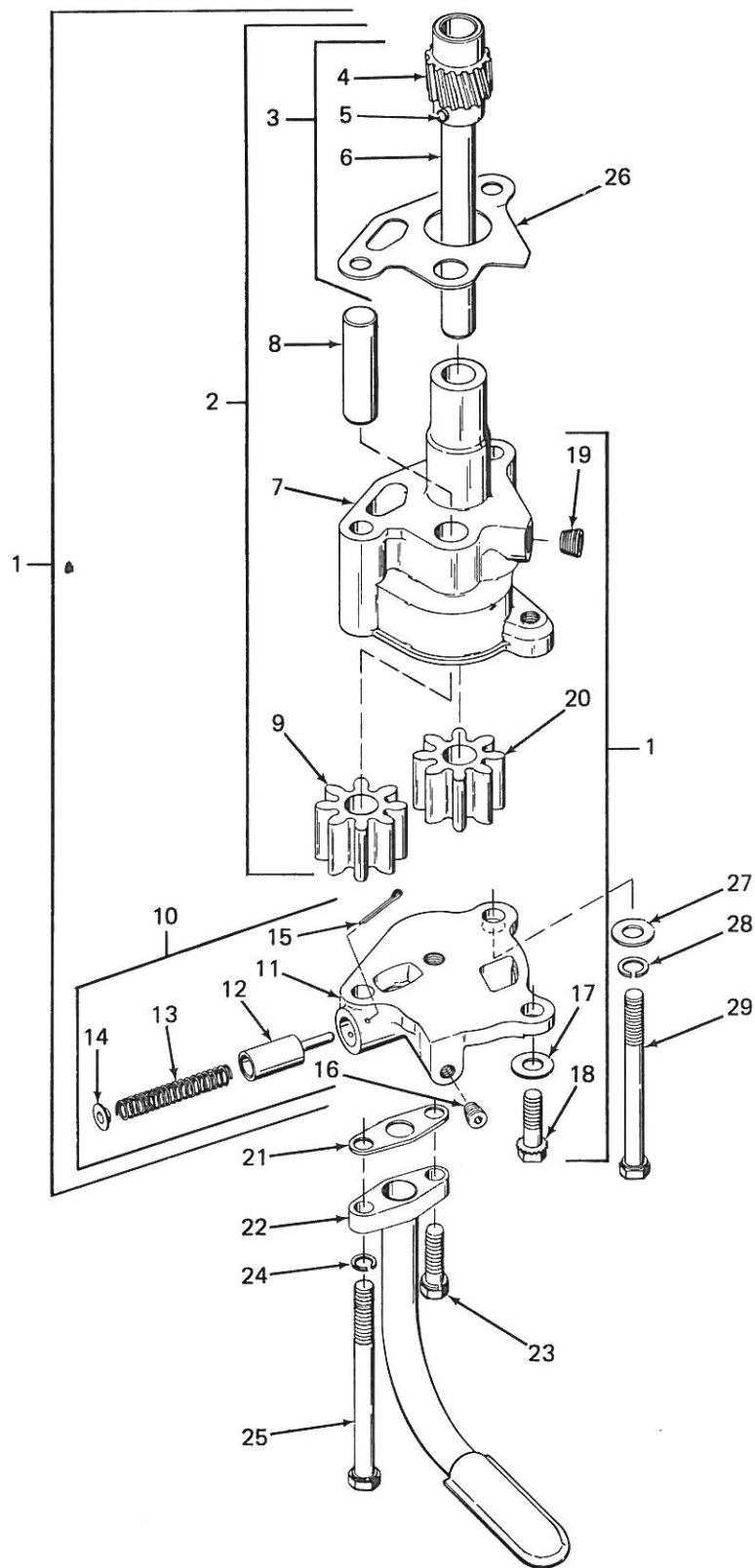


FIGURE 12. OIL PUMP GROUP A

FIGURE 12. OIL PUMP GROUP A

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	40-2025251	Oil Pump Assembly	1
2	40-1025452	. Body Assembly	1
3	40-1075351	. . Gear and Shaft Assembly	1
4	40-1075301	. . . Gear	1
5	206064	. . . Rivet	1
6	360048	. . . Shaft	1
7	360054	. . Body	1
8	360055	. . Shaft	1
9	360047	. . Gear	1
10	40-2025351	. Cover Assembly	1
11	40-2025301	. . Cover	1
12	360164	. . Plunger, Regulator	1
13	360165	. . Spring, Regulator	1
14	360053	. . Retainer, Regulator	1
15	206169	. . Pin, Cotter	1
16	13331	. . Plug, Pipe	1
17	206123	. Washer, Cover Screw and Lockwasher Attaching	1
18	206063	. Screw and Lockwasher Assembly, Cover Attaching	1
19	206094	. Plug, Pipe	1
20	360047	. Gear	1
21	360043	Gasket	1
22	40-2092706	Strainer Assembly	1
23	207231	Screw and Lockwasher, Strainer Attaching	1
24	615	Lockwasher, Strainer and Pump Attaching Screw	1
25	208683	Screw, Strainer and Pump Attaching	1
26	360042	Gasket, Oil Pump Attaching	1
27	14529	Washer, Oil Pump Attaching Screw	1
28	615	Lockwasher, Oil Pump Attaching Screw	1
29	1000-14088	Screw, Oil Pump Attaching	1
	360180	Gasket Set, Oil Pump (For Service)	
	40-2025253	Oil Pump Assembly (For Service) (Includes Ref. Nos. 1, 21, 26, 27, 29)	

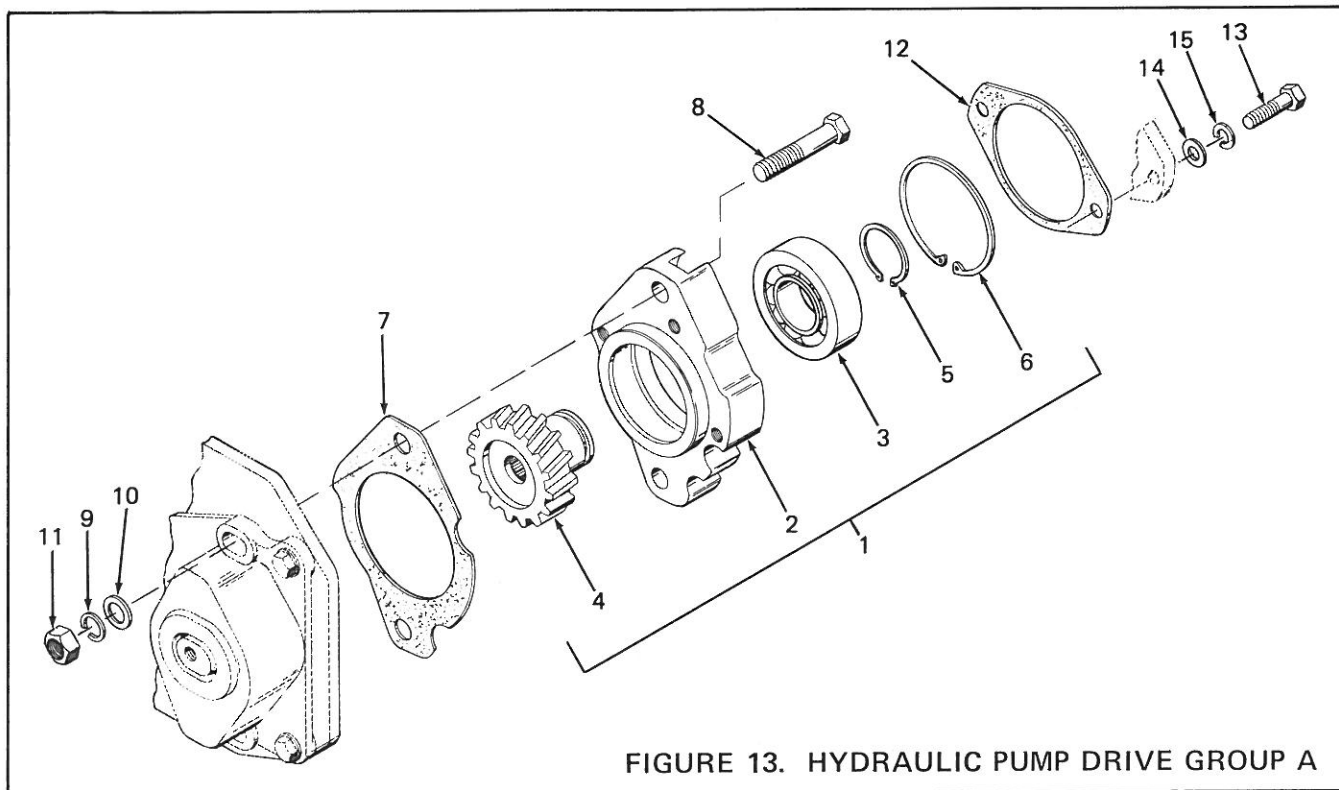


FIGURE 13. HYDRAULIC PUMP DRIVE GROUP A

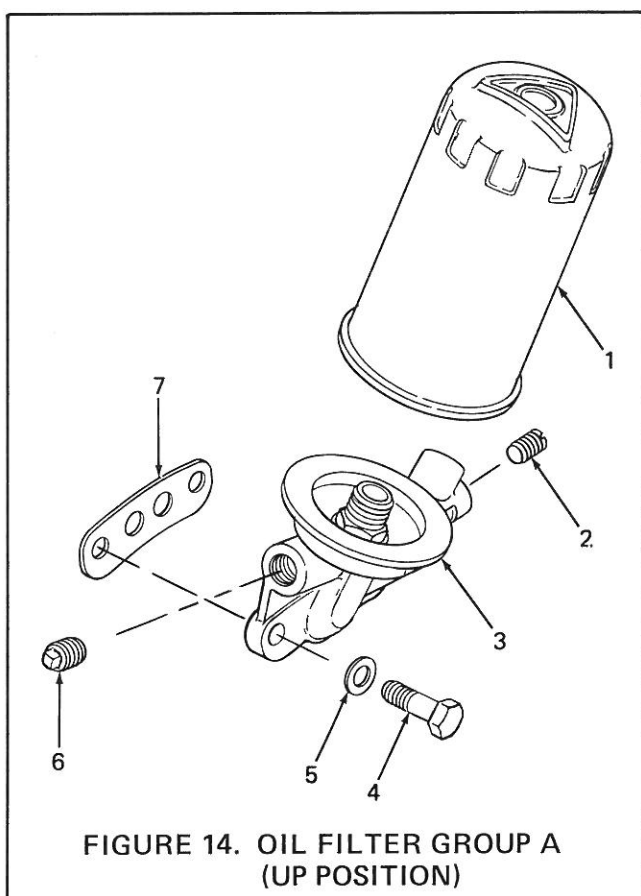


FIGURE 14. OIL FILTER GROUP A  
(UP POSITION)

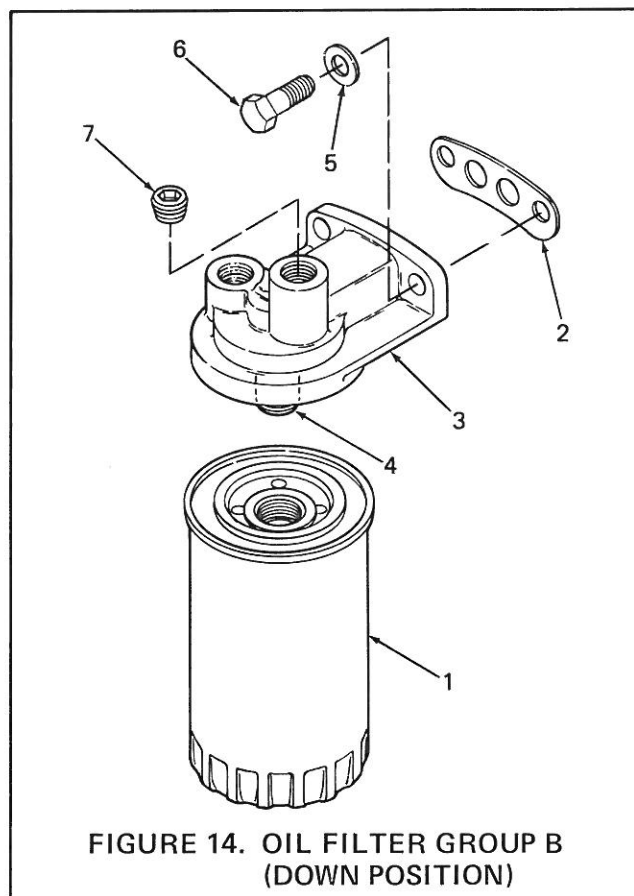


FIGURE 14. OIL FILTER GROUP B  
(DOWN POSITION)



FIGURE 13. HYDRAULIC PUMP DRIVE GROUP A

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	40-2093251	Adapter Assembly	1
2	40-2093202	. Adapter	1
3	40-2092404	. Bearing	1
4	40-2075402	. Gear	1
5	2120-02137	. Snap Ring	1
6	2100-02315	. Snap Ring	1
7	40-2090609	Gasket, Adapter Attaching	1
8	206048	Screw, Adapter Attaching	2
9	312	Lockwasher, Adapter Attaching Screw	2
10	4410	Washer, Adapter Attaching Screw	4
11	626	Nut, Adapter Attaching Screw	2
12	62950	Gasket, Hydraulic Pump Attaching	1
13	1865	Screw, Hydraulic Pump Attaching	2
14	4080	Washer, Hydraulic Pump Attaching Screw	2
15	342	Lockwasher, Hydraulic Pump Attaching Screw	2
	See Data Sheet	Hydraulic Pump	1

FIGURE 14. OIL FILTER GROUP A  
(UP POSITION)

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	40-0000407	Oil Filter	1
2	305	Plug, Adapter	1
3	360 <del>45</del> 166	Base, Oil Filter	1
4	1865	Screw, Adapter Attaching	2
5	14416	Washer, Adapter Attaching	2
6	620	Plug, Adapter	1
7	360079	Gasket, Adapter Attaching	1

FIGURE 14. OIL FILTER GROUP B  
(DOWN POSITION)

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	40-0000407	Oil Filter	1
2	360079	Gasket, Adapter Attaching	1
3	40-0026502†	Base, Oil Filter	1
4	208642†	Stud, Oil Filter Attaching	1
5	14416	Washer, Adapter Attaching Screw	2
6	1000-12150	Screw, Adapter Attaching	2
7	14264†	Plug, Pipe	2
	40-0026552	Base Assembly, Oil Filter, Includes †	

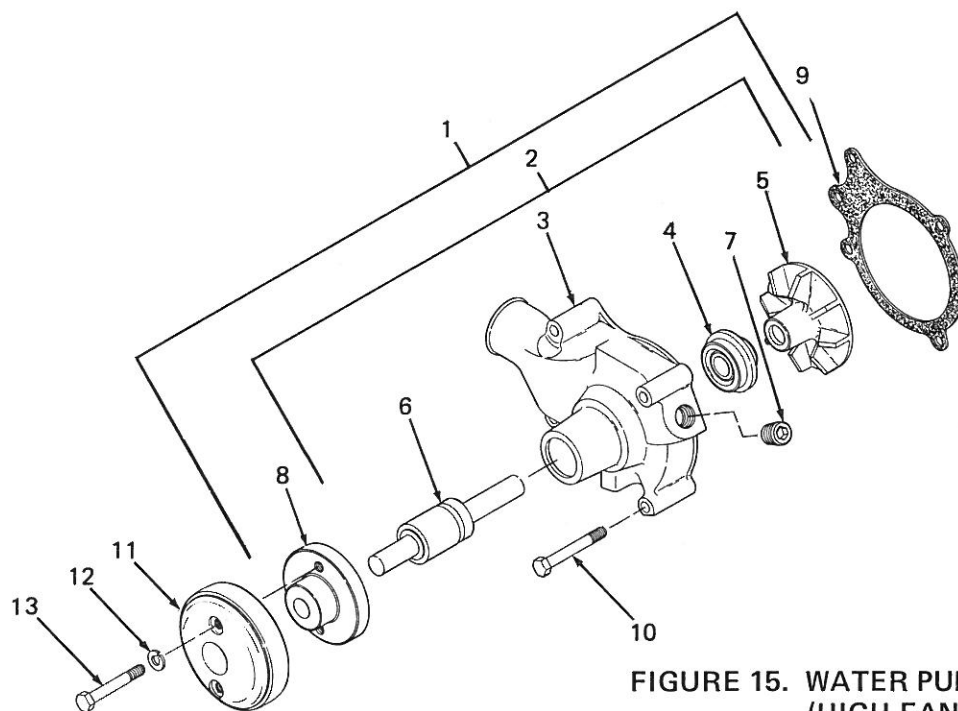


FIGURE 15. WATER PUMP GROUP A  
(HIGH FAN POSITION)

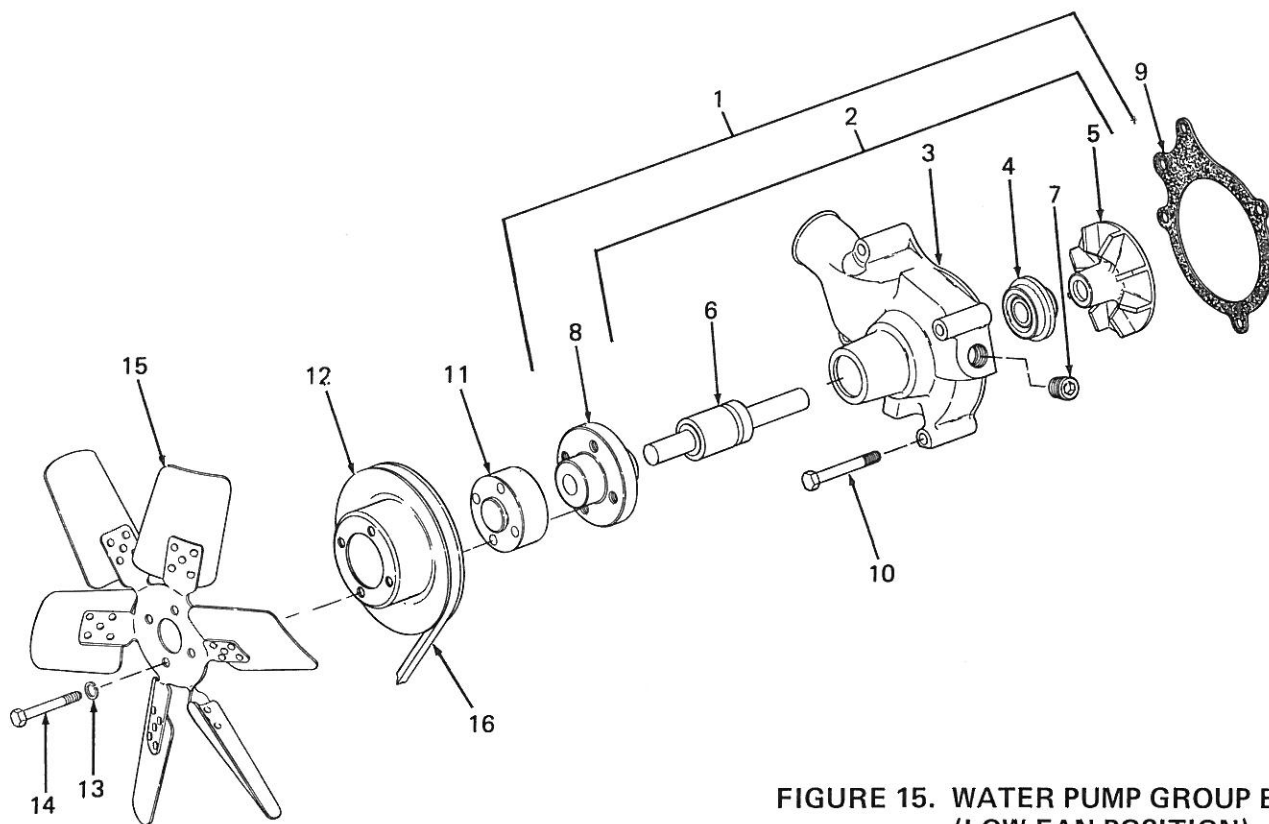


FIGURE 15. WATER PUMP GROUP B  
(LOW FAN POSITION)

**FIGURE 15. WATER PUMP GROUP A  
(HIGH FAN POSITION)**

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	40-2035063	Water Pump and Adapter Assembly	1
2	40-2035068	. Water Pump Assembly	1
3	40-2035301	. . Housing, Water Pump	1
4	40-0003237	. . Seal Assembly	1
5	40-2035203	. . Impeller	1
6	40-2092415	. . Bearing Assembly	1
7	14264	. . Plug, Pipe	1
8	40-2092604	. Adapter, Water Pump Pulley	1
9	40-2090611	Gasket, Water Pump Attaching	1
10	206615	Screw, Water Pump Attaching	4
11	40-2082201	Pulley, Water Pump	1
12	4242	Lockwasher, Water Pump Pulley Screw	2
13	1369	Screw, Water Pump Pulley	2
	40-2035072	Kit, Water Pump Repair	1

**FIGURE 15. WATER PUMP GROUP B  
(LOW FAN POSITION)**

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	See Data Sheet	Water Pump and Adapter Assembly	1
2	40-2035068	. Water Pump Assembly	1
3	40-2035301	. . Housing, Water Pump	1
4	40-0003237	. . Seal Assembly	1
5	40-2035203	. . Impeller	1
6	40-2092415	. . Bearing Assembly	1
7	14264	. . Plug, Pipe	1
8	See Data Sheet	. Adapter, Water Pump Pulley	1
9	40-2090611	Gasket, Water Pump Attaching	1
10	206615	Screw, Water Pump Attaching	4
11	See Data Sheet	Spacer, Fan Blade	1
12	See Data Sheet	Pulley, Water Pump	1
13	See Data Sheet	Lockwasher, Fan Blade	4
14	See Data Sheet	Screw, Fan Blade	4
15	See Data Sheet	Blade, Fan	1
16	See Data Sheet	Belt, Drive	1
	40-2035072	Kit, Water Pump Repair	1

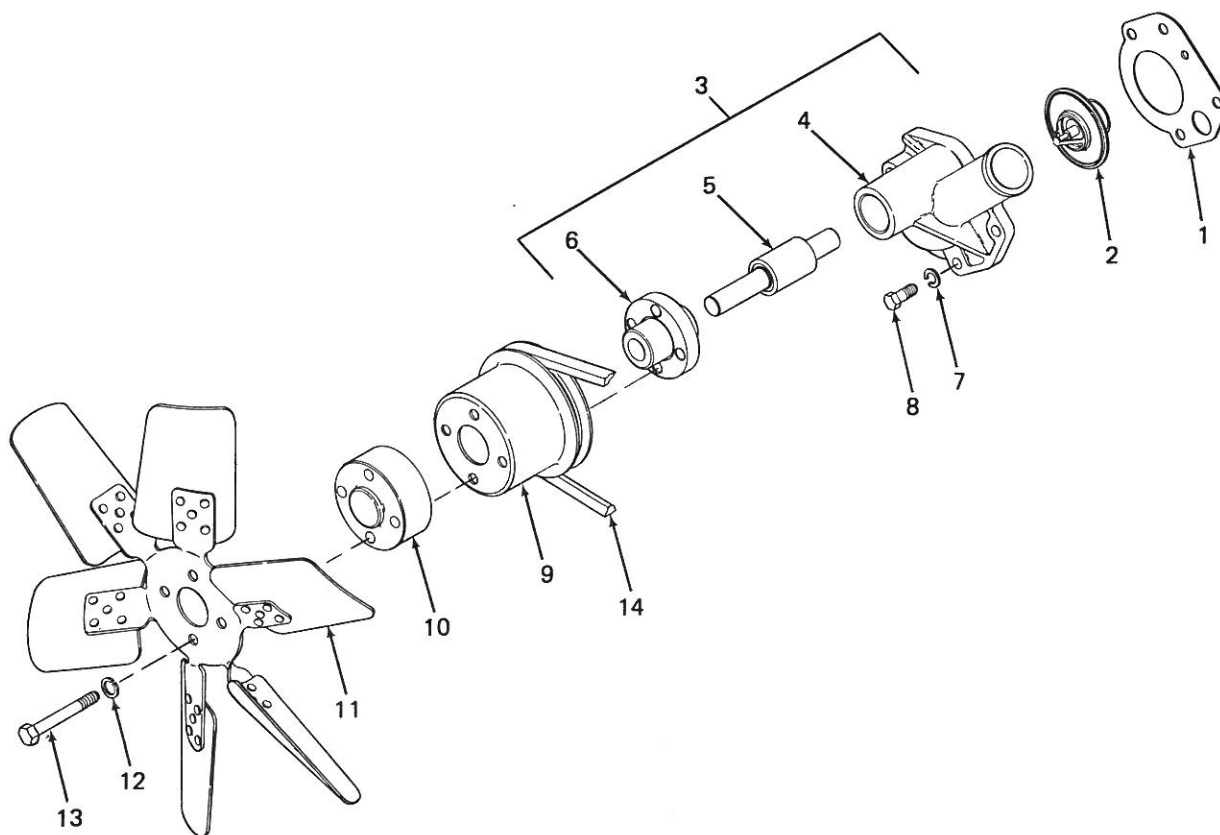


FIGURE 16. THERMOSTAT HOUSING GROUP A  
(HIGH FAN POSITION)

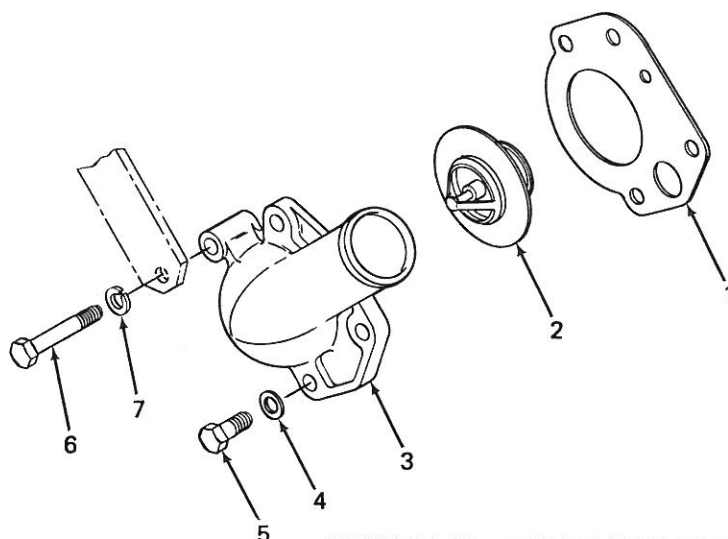


FIGURE 16. THERMOSTAT HOUSING GROUP B  
(LOW FAN POSITION)

**FIGURE 16. THERMOSTAT HOUSING GROUP A  
(HIGH FAN POSITION)**

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	40-2090607	Gasket, Thermostat Housing	1
2	40-1092902	Thermostat	1
3	See Data Sheet	Housing Assembly, Shaft and Adapter	1
4	See Data Sheet	· Housing, Thermostat	1
5	See Data Sheet	· Bearing and Shaft Assembly	1
6	See Data Sheet	· Adapter, Pulley	1
7	See Data Sheet	Washer, Thermostat Housing, Attaching Screw	3
8	See Data Sheet	Screw, Thermostat Housing, Attaching	3
9	See Data Sheet	Pulley	1
10	See Data Sheet	Spacer, Fan Blade	1
11	See Data Sheet	Blade, Fan	1
12	See Data Sheet	Lockwasher, Fan Blade Attaching	4
13	See Data Sheet	Screw, Fan Blade Attaching	4
14	See Data Sheet	Belt, Fan	1

**FIGURE 16. THERMOSTAT HOUSING GROUP B  
(LOW FAN POSITION)**

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	40-2090607	Gasket, Thermostat Housing	1
2	40-1092902	Thermostat	1
3	40-2070001	Housing, Thermostat	1
4	14529	Washer	3
5	208343	Screw	3
6		Screw - See Alternator Group	1
7		Lockwasher - See Alternator Group	1





**FIGURE 17. CARBURETOR GROUP A  
DIRECT MOUNTED  
(NO ADAPTER)**

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	See Data Sheet	Carburetor and Solenoid Assembly	1
2	See Data Sheet	. Carburetor	1
3	See Data Sheet	. Solenoid	1
4	See Data Sheet	. Lever	1
5	See Data Sheet	. Lever	1
6	45684	Gasket, Carburetor Attaching	1
7	40-0001605	Stud	2
8	4461	Lockwasher	2
9	14741	Nut	2

FIGURE 17. CARBURETOR AND  
ADAPTER GROUP B  
(7/8" U.D.)

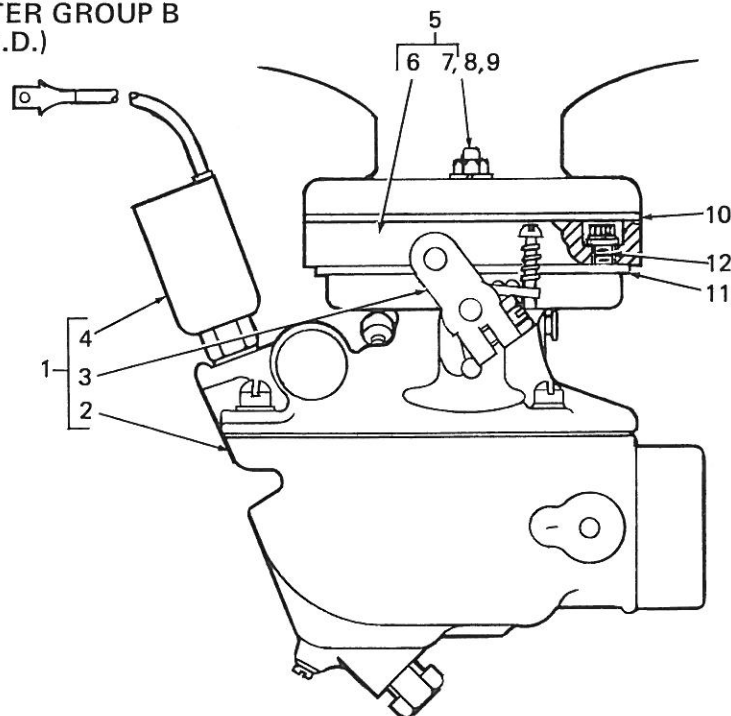
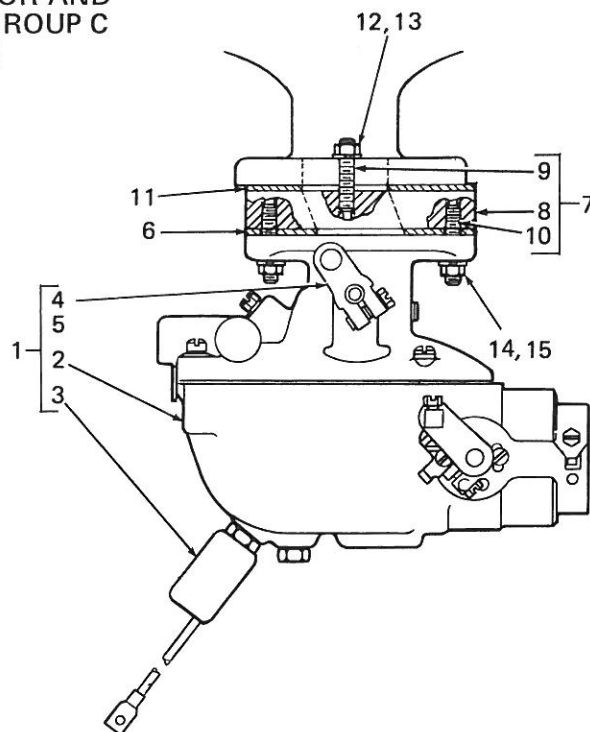


FIGURE 17. CARBURETOR AND  
ADAPTER GROUP C  
(1-1/4" U.D.)



**FIGURE 17. CARBURETOR AND ADAPTER GROUP B  
(7/8" U.D.)**

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	40-2060059	Carburetor and Solenoid Assembly	1
2	Included in Assy	. Carburetor	1
3	Included in Assy	. Lever	1
4	40-2501027	. Solenoid	1
5	40-2098551	Adapter and Stud Assembly	1
6	40-2098501	. Adapter	1
7	13148	. Stud	2
8	752	Nut, Adapter	2
9	342	Lockwasher	2
10	45684	Gasket, Adapter	1
11	86	Gasket, Carburetor	1
12	1094-18078	Capscrew, Carburetor	2
	40-2060061	Kit, Carburetor Repair	1

**FIGURE 17. CARBURETOR AND ADAPTER GROUP C  
(1-1/4" U.D.)**

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	See Data Sheet	Carburetor and Solenoid Assembly	1
2	See Data Sheet	. Carburetor	1
3	See Data Sheet	. Solenoid	1
4	See Data Sheet	. Lever	1
5	See Data Sheet	. Lever	1
6	45684	Gasket, Carburetor Attaching	1
7	40-2093351	Adapter Assembly, Carburetor	1
8	40-2093301	. Adapter	1
9	13148	. Stud, Adapter to Manifold	2
10	40-0001605	. Stud, Carburetor to Adapter	2
11	45684	Gasket, Adapter to Manifold	1
12	4461	Lockwasher, Adapter to Manifold Stud	2
13	752	Nut, Adapter to Manifold Stud	2
14	4461	Lockwasher, Carburetor Stud	2
15	14741	Nut, Carburetor Stud	2

FIGURE 18. FUEL PUMP GROUP B  
(HOLE COVER)

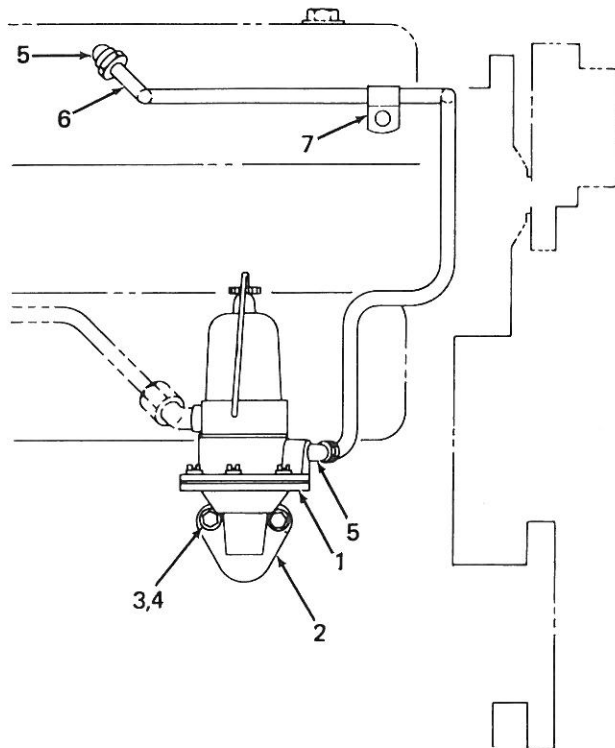
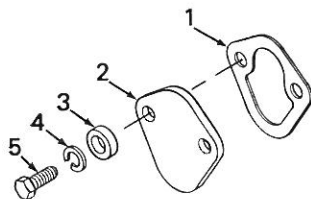


FIGURE 18. FUEL PUMP GROUP A

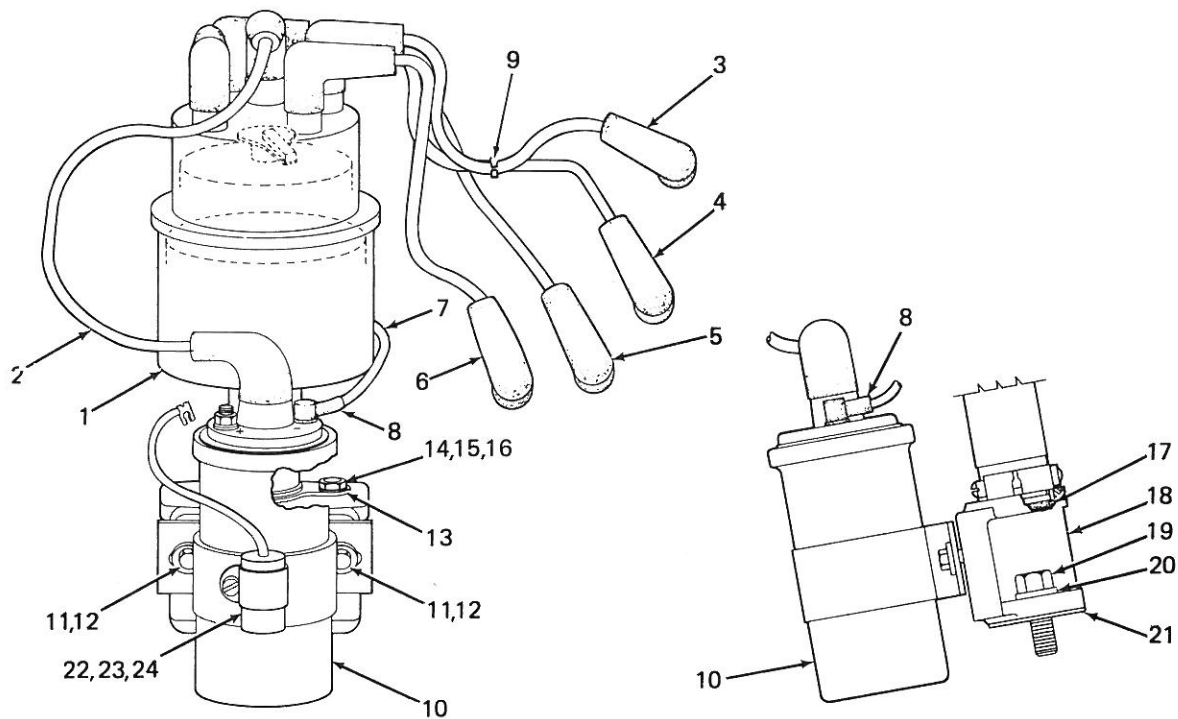


FIGURE 19. DISTRIBUTOR AND PARTS GROUP A

**FIGURE 18. FUEL PUMP GROUP A**

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	40-2055003	Fuel Pump	1
2	360073	Gasket	1
3	208183	Screw	2
4	615	Lockwasher	2
5	See Data Sheet	Elbow	2
6	See Data Sheet	Fuel Line Assembly	1
7	See Data Sheet	Clamp	1

**FIGURE 18. FUEL PUMP GROUP B (HOLE COVER)**

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	360073	Gasket, Fuel Pump Hole Cover	1
2	32059	Cover, Fuel Pump Hole	1
3	See Data Sheet	Spacer	2
4	615	Lockwasher, Attaching	2
5	See Data Sheet	Screw, Attaching	2

**FIGURE 19. DISTRIBUTOR AND PARTS GROUP A**

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	See Data Sheet	Distributor	1
	40-2500754	Cable Assembly, Complete Set	1
	40-2500753	Cable Assembly, Distributor to Spark Plugs	1
2	NSS	Cable, Coil to Distributor	1
3	NSS	Cable, No. 1 Cylinder	1
4	NSS	Cable, No. 2 Cylinder	1
5	NSS	Cable, No. 3 Cylinder	1
6	NSS	Cable, No. 4 Cylinder	1
	NSS	Cable, Assembly, Low Tension	1
7	NSS	Cable	1
8	NSS	Terminal	2
9	208337	Clip, Cable Separator - At No. 1 and 2 Cables	1
	See Data Sheet	Spark Plugs	4
10	54631	Coil and Bracket	1
11	4318	Screw, Coil Attaching	2
12	615	Lockwasher, Coil Attaching	2
13	110385	Arm, Distributor Hold Down Advance	1
14	1000-12006	Screw, Distributor Hold Down	1
15	628	Lockwasher, Distributor Hold Down	1
16	14162	Washer, Plain, Distributor Hold Down	1
17	203830	"O" Ring	1
18	40-2090801	Adapter, Distributor Mounting	1
19	208197	Screw, Adapter Attaching	2
20	342	Lockwasher, Adapter Attaching	2
21	40-2090608	Gasket, Adapter Attaching	1
22	1416-04562	Screw, For Capacitor	1
23	360095	Retainer, For Capacitor	1
24	40-2502103	Capacitor	1
	See Data Sheet	Cap, Distributor (For Service)	1
	See Data Sheet	Kit, Ignition Tune-Up (For Service)	1

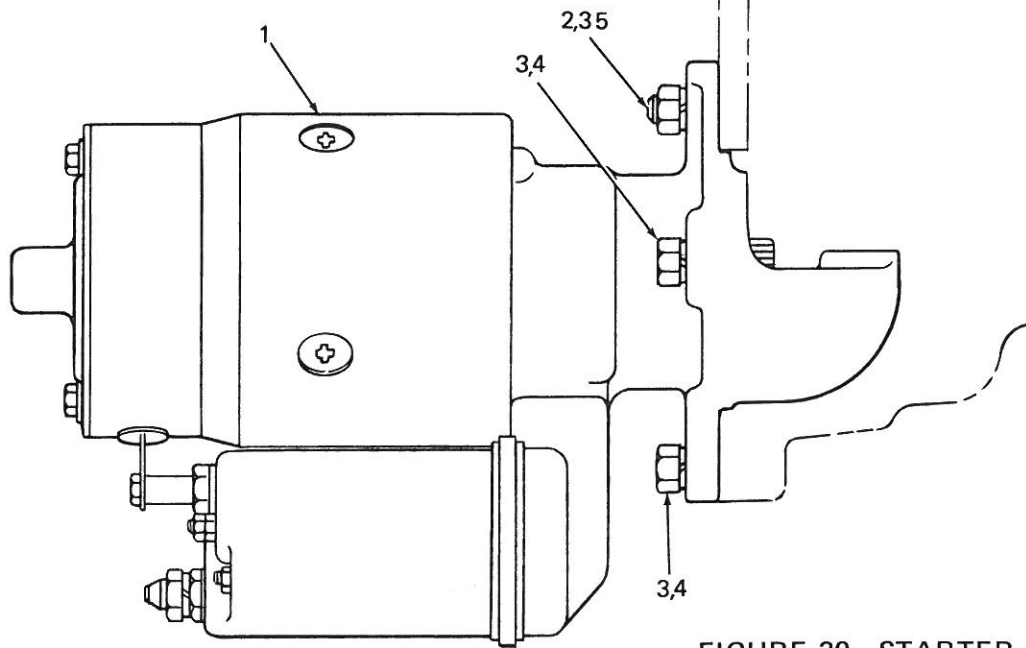


FIGURE 20. STARTER GROUP A

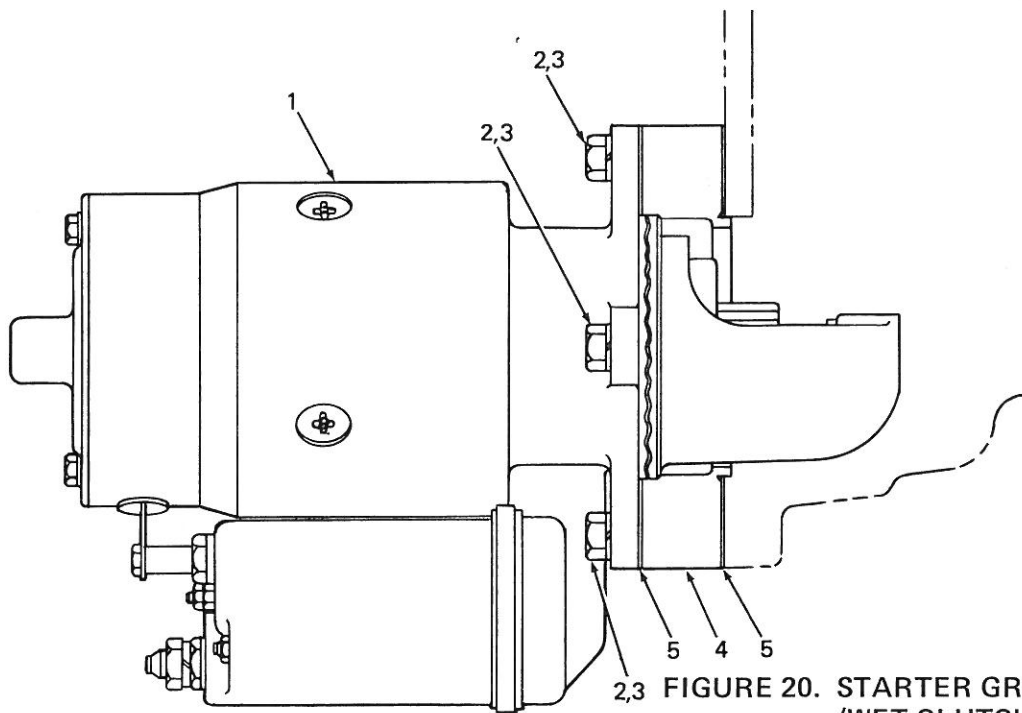


FIGURE 20. STARTER GROUP B  
(WET CLUTCH OPTION)



FIGURE 20. STARTER GROUP A

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	See Data Sheet	Starter	1
2	11662	Stud	1
3	342	Lockwasher	3
4	1000-12152	Screw, Starter Attaching	2
5	752	Nut	1

FIGURE 20. STARTER GROUP B  
(WET CLUTCH OPTION)

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	See Data Sheet	Starter	1
2	See Data Sheet	Screw	3
3	See Data Sheet	Lockwasher	3
4	See Data Sheet	Adapter	1
5	See Data Sheet	Gasket	2

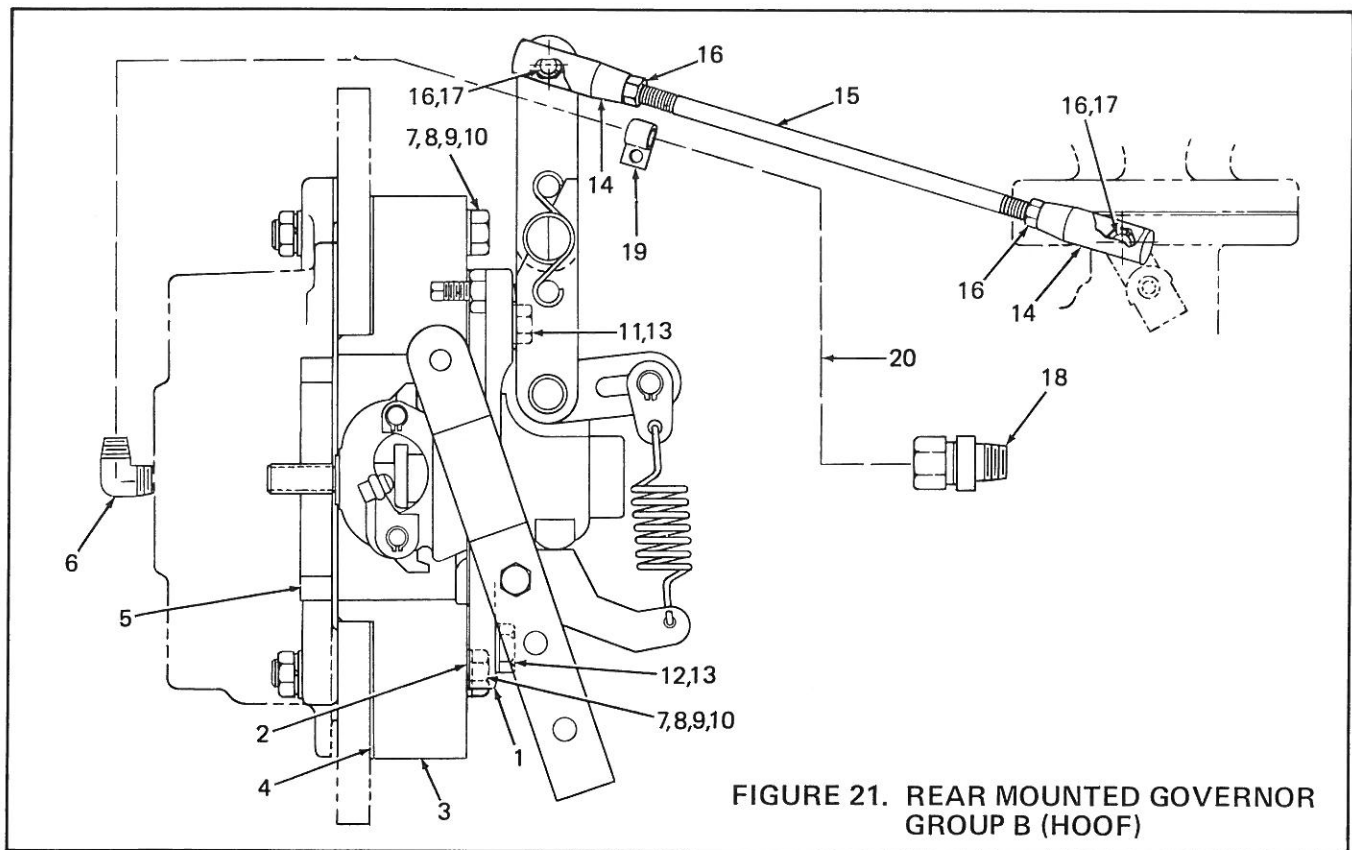
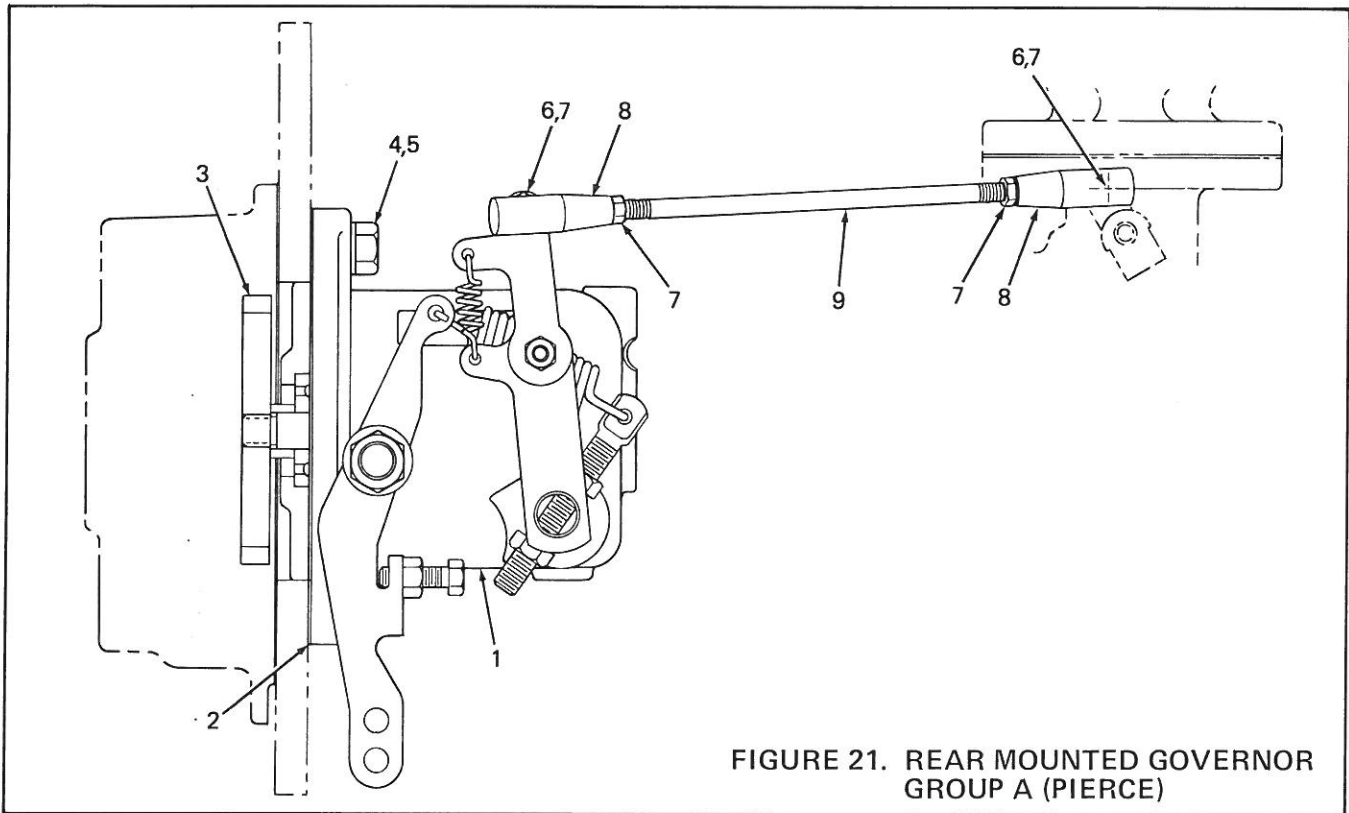


FIGURE 21. REAR MOUNTED GOVERNOR GROUP A (PIERCE)

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	See Data Sheet	Governor Gear and Body Assembly	1
2	40-2090641	Gasket, Governor Attaching	1
3	Included in Assy	Governor Gear	1
4	1002-16149	Screw, Governor Attaching	2
5	14416	Washer, Plain, Governor Attaching	2
6	628	Lockwasher	2
7	1177	Nut	4
8	14411	Ball Joint	2
9	208513	Rod, Governor	1

FIGURE 21. REAR MOUNTED GOVERNOR GROUP B (HOOF)

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	See Data Sheet	Governor	1
2	28552	Gasket, Governor Attaching	1
3	40-2093201	Adapter, Governor Mounting	1
4	40-2090609	Gasket, Adapter	1
5	40-2075301	Gear	1
6	11050	Elbow, Gear Cover	1
7	1000-12299	Screw, Adapter	2
8	5033	Nut, Adapter	2
9	4410	Washer, Adapter	4
10	312	Lockwasher, Adapter	2
11	208158	Screw, Governor Attaching	1
12	208163	Screw, Governor Attaching	1
13	14416	Washer, Governor Attaching	2
14	14411	Ball Joint	2
15	See Data Sheet	Connecting Rod, Governor	1
16	1177	Nut, Connecting Rod	4
17	628	Lockwasher	2
18	14945	Union, In Oil Filter Base	1
19	3734	Clamp, Governor Lube Tube	1
20	40-0013401	Line, Governor Lube	1

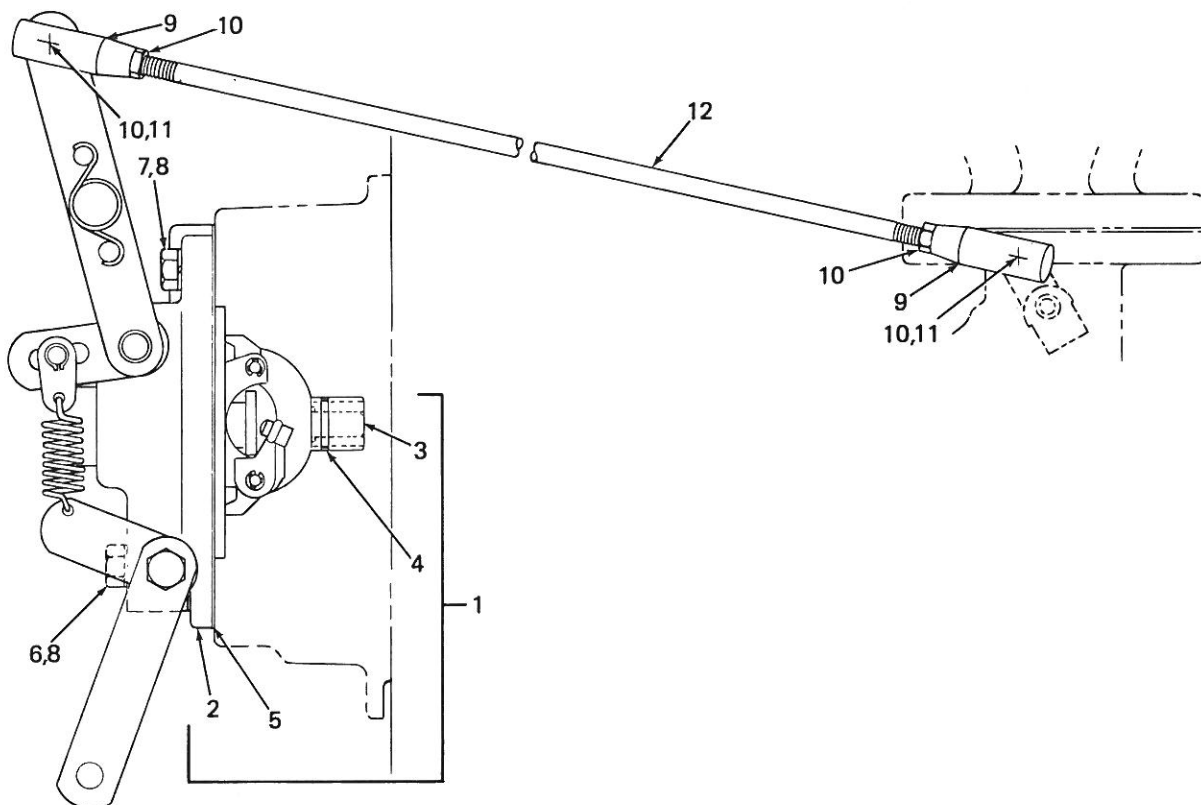


FIGURE 21. FRONT MOUNTED GOVERNOR GROUP C (HOOF)

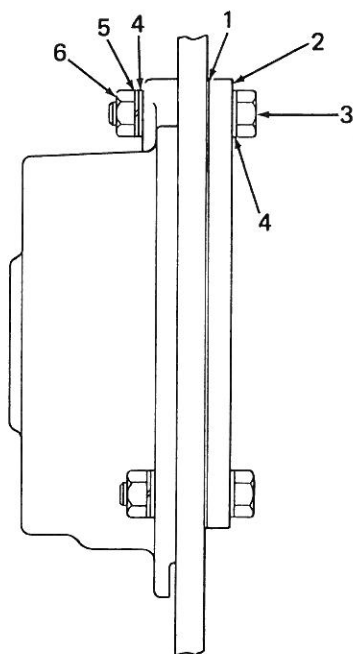


FIGURE 21. GOVERNOR OPENING COVER GROUP D (REAR MOUNTED)

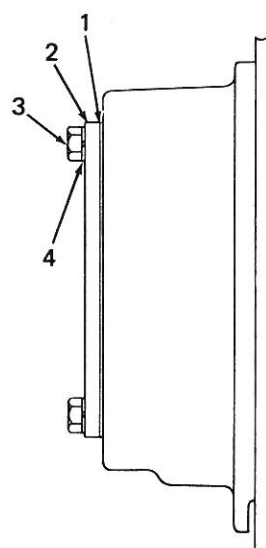


FIGURE 21. GOVERNOR OPENING COVER GROUP E (FRONT MOUNTED)

**FIGURE 21. FRONT MOUNTED GOVERNOR GROUP C (HOOF)**

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	See Data Sheet	Governor and Drive Adapter Assembly	1
2	NSS	. Governor	1
3	NSS	. Adapter, Spline	1
4	NSS	. Pin, Roll	1
5	28552	Gasket, Governor Attaching	1
6	208201	Screw	1
7	208158	Screw	1
8	14416	Washer	2
9	14411	Ball Joint	2
10	1177	Nut	4
11	628	Lockwasher	2
12	See Data Sheet	Rod, Governor Connecting	1

**FIGURE 21. GOVERNOR OPENING COVER GROUP D  
(REAR MOUNTED)**

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	40-2090609	Gasket, Governor Opening Cover	1
2	40-0007174	Cover, Governor Opening	1
3	1701	Screw, Governor Opening Cover	2
4	4410	Washer, Plain, Governor Opening Cover Screw	4
5	312	Lockwasher, Governor Opening Cover Screw	2
6	5033	Nut, Governor Opening Cover Screw	2

**FIGURE 21. GOVERNOR OPENING COVER GROUP E  
(FRONT MOUNTED)**

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	28552	Gasket, Governor Opening Cover	1
2	204034	Cover, Governor Opening	1
3	208163	Screw, Governor Opening Cover	2
4	342	Lockwasher, Governor Opening Cover	2

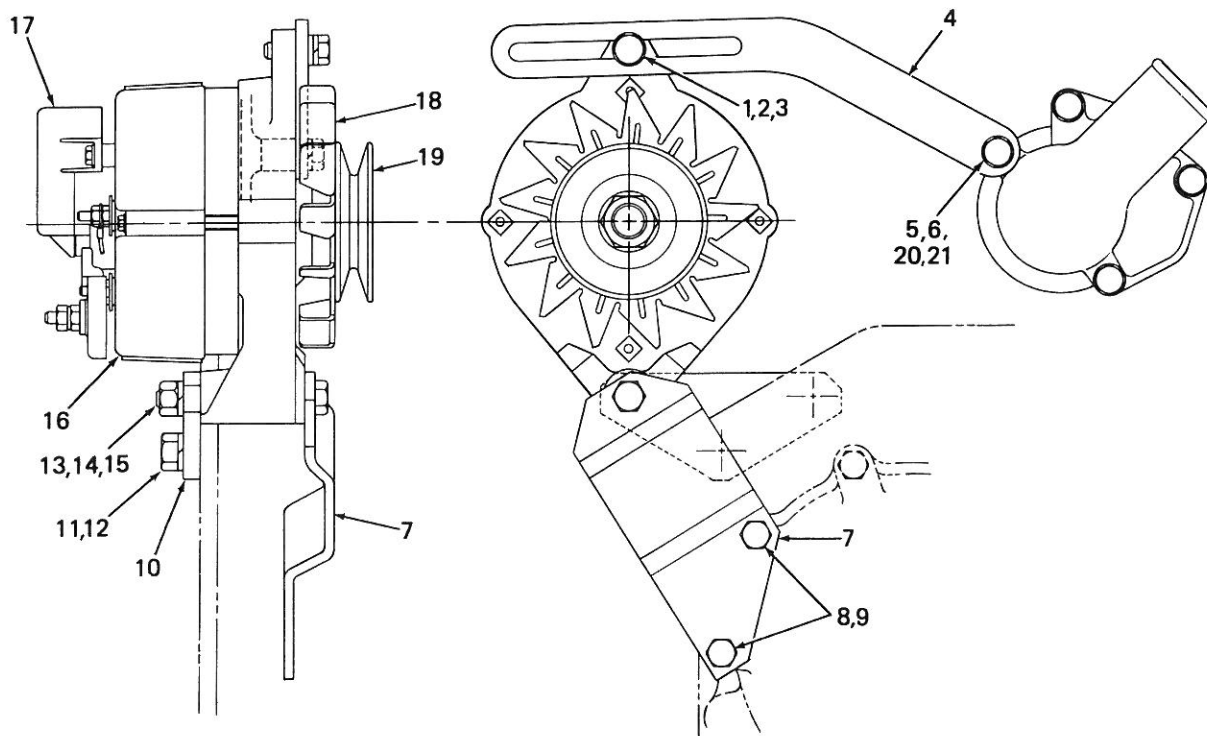


FIGURE 22. ALTERNATOR GROUP A

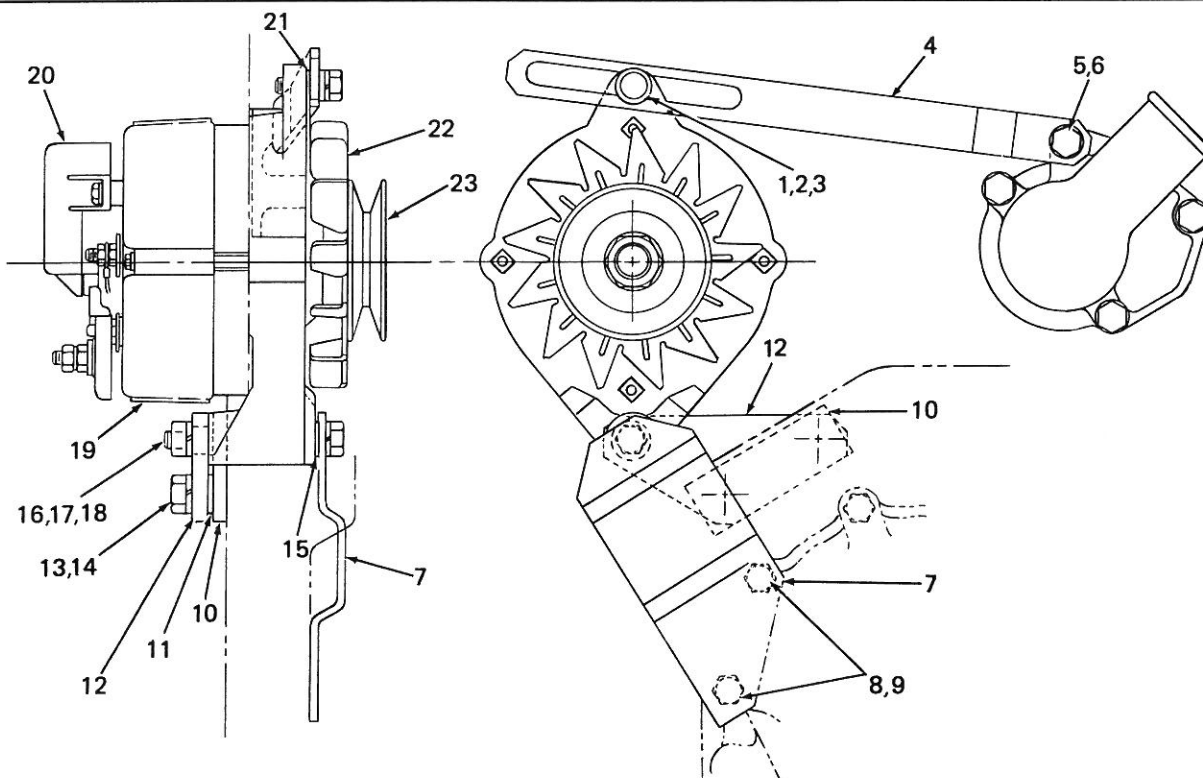


FIGURE 22. ALTERNATOR GROUP B



**FIGURE 22. ALTERNATOR GROUP A**

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	1000-14079	Screw, Adjusting Strap to Alternator	1
2	2004-00021	Washer, Adjusting Strap to Alternator Screw	1
3	206118	Lockwasher, Adjusting Strap to Alternator Screw	1
4	286844	Strap, Alternator Adjusting	1
5	4427	Screw, Adjusting Strap to Thermostat Housing	1
6	206118	Lockwasher, Adjusting Strap to Thermostat Housing Screw	1
7	40-0019726	Bracket, Alternator Mounting, Front	1
8	1000-14087	Screw, Bracket Attaching, Front	2
9	206118	Lockwasher, Bracket Attaching, Front	2
10	40-0010205	Bracket, Alternator Mounting, Rear	1
11	1000-24149	Screw, Bracket Attaching, Rear	2
12	2012-04022	Lockwasher, Bracket Attaching, Rear	2
13	1000-14159	Screw, Alternator Hinge	1
14	2012-04022	Lockwasher, Alternator Hinge Screw	1
15	1500-02222	Nut, Alternator Hinge Screw	1
16	See Data Sheet	Alternator	1
17	See Data Sheet	Regulator	1
18	See Data Sheet	Fan	1
19	See Data Sheet	Pulley	1
20	1000-14084	Screw, Adjusting Strap to Thermostat Housing (Alternate)	1
21	49841	Spacer, Adjusting Strap to Thermostat Housing (Alternate)	1

**FIGURE 22. ALTERNATOR GROUP B**

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	206525	Screw, Adjusting Strap to Alternator	1
2	14978	Washer, Adjusting Strap to Alternator Screw	1
3	615	Lockwasher, Adjusting Strap to Alternator Screw	1
4	40-0007151	Strap, Alternator Adjusting	1
5	206525	Screw, Adjusting Strap (Upper Hole in Outlet Pipe)	1
6	615	Lockwasher, Adjusting Strap Screw	1
7	40-0003623	Bracket, Alternator Mounting, Front	1
8	1000-14087	Screw, Front Alternator Mounting Bracket	2
9	615	Lockwasher, Front Alternator Mounting Bracket	2
10	40-0010206	Spacer, Rear Alternator Mounting Bracket	1
11	13380	Spacer, Between Rear Alternator Bracket and Spacer	2
12	40-0010205	Bracket, Alternator Mounting, Rear	1
13	1000-12152	Screw, Rear Alternator Mounting Bracket	2
14	342	Lockwasher, Rear Alternator Mounting Bracket	2
15	13380	Spacer, Between Front Alternator Foot and Front Bracket	1
16	1000-13160	Screw, Alternator Hinge	2
17	4080	Washer, Alternator Hinge Screw	2
18	203167	Nut, Alternator Hinge Screw	2
19	See Data Sheet	Alternator	1
20	See Data Sheet	Regulator	1
21	14978	Spacer, Between Strap and Alternator	1
22	See Data Sheet	Fan	1
23	See Data Sheet	Pulley	1

FIGURE 23. IDLER GROUP A

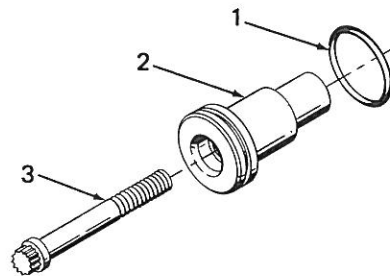


FIGURE 23. IDLER GROUP B

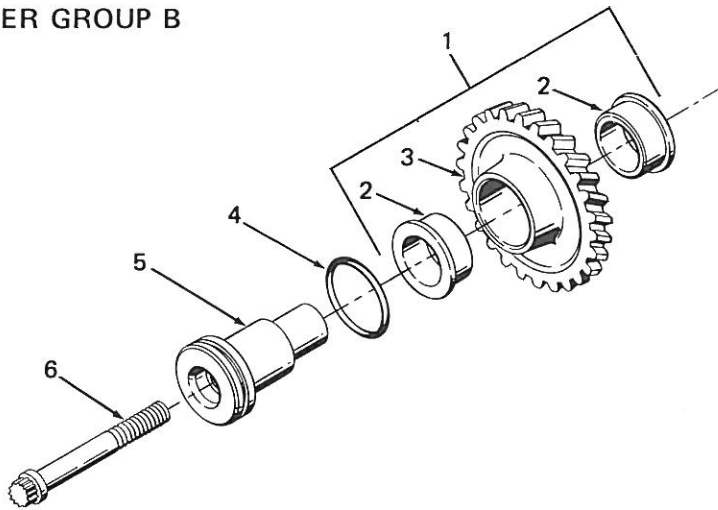


FIGURE 23. IDLER GROUP C

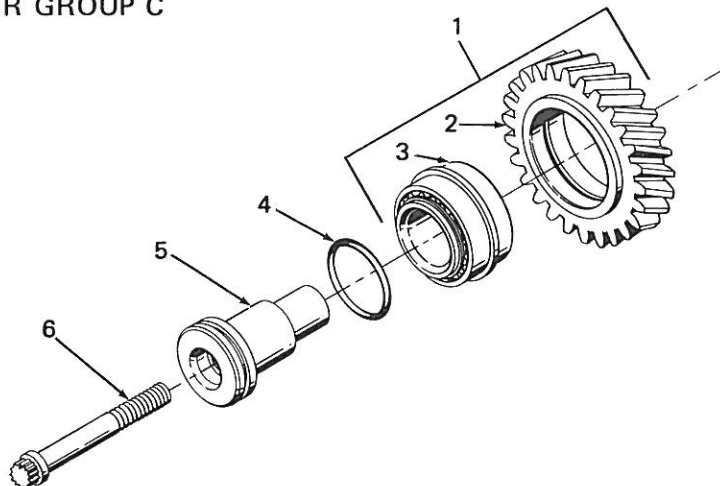


FIGURE 23. IDLER GROUP A

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	40-0003209	"O" Ring, Idler Shaft	1
2	40-2090302	Shaft, Idler	1
3	40-0001316	Screw, Idler Shaft	1

FIGURE 23. IDLER GROUP B

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	40-2075751	Gear Assembly, Idler	1
2	40-2090103	Bushing, Idler Gear	2
3	40-2075751 701	Gear, Idler	1
4	40-0003209	"O" Ring, Idler Shaft	1
5	40-2090302	Shaft, Idler	1
6	40-0001316	Screw, Idler Shaft	1

FIGURE 23. IDLER GROUP C

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	40-2075653	Gear and Bearing Assembly, Idler	1
2	40-2075601	Gear, Idler	1
3	40-2092403	Bearing, Idler Gear	1
4	40-0003209	"O" Ring, Idler Shaft	1
5	40-2090302	Shaft, Idler	1
6	40-0001316	Screw, Idler Shaft	1

## NOTES

## MISCELLANEOUS GROUP A

40-2090651	Gasket and Seal Assembly, Overhaul
40-2090652	Gasket Assembly, Valve Grind
40-0090202	Manual, Maintenance
40-0090204	Manual, Operators

## NOTES

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# **WHITE**

## **ENGINES, INC.**

CANTON, OHIO 44707

# **LIMITED WARRANTY**

## **INDUSTRIAL ENGINE**

White Engines, Inc. warrants each new engine or component thereof, sold by it to the original owner-user as follows:

For eighteen (18) months from date of shipment from the factory, or for twelve (12) months of service, or for 1,000 hours of service, whichever shall first occur, (or for such other period of time as may be agreed upon in writing by White Engines, Inc. in respect to the application in which the engine is used) that said engine and component shall be free from defects in material and workmanship.

For any engine or component which is, or becomes defective within the period set forth above, White Engines, Inc. shall furnish to the original owner-user, without charge, parts to replace those parts which upon inspection are determined by White Engines, Inc. to have been defective in material or workmanship.

This warranty does not obligate White Engines, Inc. for the cost of labor or transportation charges in connection with the replacement of defective parts or repair of the engine.

The foregoing warranty does not apply to normal maintenance services or adjustment or to an engine upon which repairs or alterations have been made unless the repairs or alterations were authorized in writing by White Engines, Inc.

White Engines, Inc. makes no warranty in respect to trade accessories. Trade accessories are subject to the warranties of their respective manufacturers.

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THIS WARRANTY SUPERSEDES ANY PREVIOUS WARRANTIES AND TAKES EFFECT JULY 1, 1978.