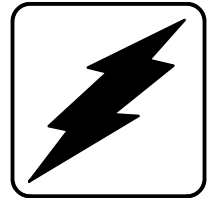


Service Parts

Industrial Generator Sets



Models:

10RY

12RY

10RZ

12RZ

KOHLER[®]
POWER SYSTEMS

9001
KOHLER
POWER SYSTEMS
NATIONALLY REGISTERED

Specification Series 110

TP-5415 2/02d

Series 1104 & 1105

Introduction

This manual contains a complete listing of engine and generator service replacement parts for the Kohler 10RY, 10RZ, 12RY, 12RZ generator set. The models use Ford VSG-411 DIS and VSG-413 DIS engines. The manual includes the following main sections:

- *Index:* Index of specifications and their groups.
- *Introduction (and other information sections):* Introductory material, followed by sections on specification numbers, part numbers and hardware.
- *Common Hardware List:* List of common hardware and their Kohler part numbers.
- *Group Parts Lists:* List specific parts for the groups. Illustrations are given for most parts.
- *Kit List and kits sections:* Contain lists of kits (by model) and their parts.

Number Significance

Various numbering systems are used. A description of these follows:

- *Specification Number:* The generator specification number (spec number) is six digits with a PA-, PB- or PE-prefix (prefixes are not used in the Specification Number Index). The first three digits designate generator size and engine model (specification series). The remaining digits are issued in sequence and identify a particular spec in a series. Spec numbers break down into groups.
- *Group Number:* A group consists of related parts needed to provide one or more related functions. For example, the 103 group is the generator Fuel System group.
- *Variation Number:* A group might have several variations. The variations provide the same function, however, with minor differences. For example, dry air cleaner or oil bath air cleaner both perform the same function. However, they use different parts. Each of these differences necessitates the assignment of a group variation number.
- *Part Number:* The part number identifies an individual assembly, subassembly, component, or accessory kit.

Exploded View Drawings and Text Blocks

● *Exploded view drawings:* Each Group Parts List in this catalog is accompanied by one or more drawings which best represent a range of variations. The drawings are a guide to part identification—they are not intended for assembly, disassembly, or maintenance. **Generator Service and other manuals are the proper guides for assembly and maintenance.**

Some parts are drawn out of proportion to distinguish them. Some common parts are not drawn in detail. For example, the image of a hex cap screw is used to represent a range of screws. Use the text description and part number to completely identify a part.

Series 1104 & 1105

How to Find Part Numbers

FOLLOW THESE STEPS to identify a part:

STEP 1: Turn to the Specification Number Index in the front of the catalog. There you will find a table of spec numbers (grouped by model and listed vertically on the left) and the variations that comprise the groups of each spec number (listed horizontally). Find your spec number and read across the page to see the variation numbers for the groups (identified by column headings).

STEP 2: Using the page number in the Table of Contents, turn to the group parts list in which the desired part belongs. Use the drawings and itemized text to locate the part and its part number.

Hardware Grades

All hex. head screws are hardness grade 5, except where noted. Socket head screws are similar to grade 8. All other hardware is grade 2, except where noted. **Do not substitute with inferior grade hardware.** Refer to

the following sections on Kohler Specification G-585, Common Hardware Application Guidelines, and Common Hardware Identification.

Hardware References

As of late 1991, many common hardware items will appear in parts catalogs as **common hardware entries** or **hardware references**. A common hardware entry simply tells the size of common hardware to be applied in accordance with Kohler specification G-585 and other hardware guidelines herein. For example, item 2 (nut) in Figure 1 below would appear as “3/8-16 hardware” in the text. It indicates that the nut is 3/8-16 size. See “Common Hardware Application Guidelines, Specification G-585” on the following pages.

A hardware reference has the abbreviation “ref.” in the part’s description. Hardware references specify common hardware items that would otherwise be indicated in a common hardware entry, except that size or other information needs specification in that application. For example, item 1 in Figure 1 below might appear in the text as “Screw, 3/8-16 x 1, ref. X-6021-1.”

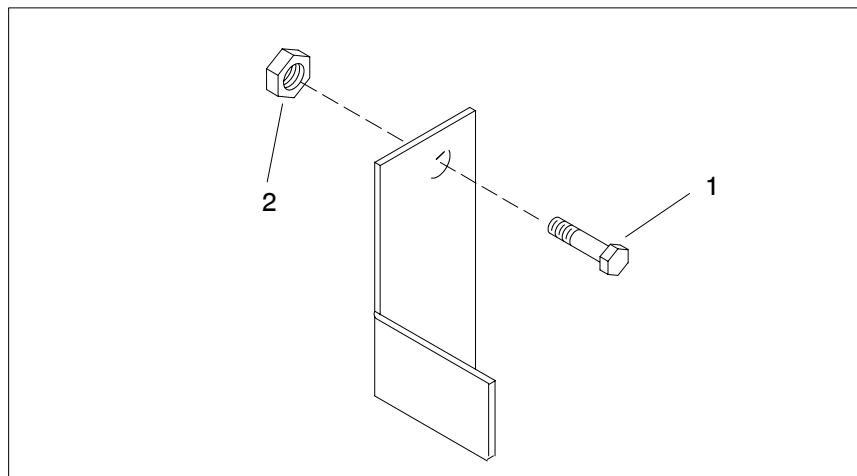


Figure 1. Hardware References

Series 1104 & 1105

Common Hardware Application Guidelines, Specification G-585

Starting late 1991, many Parts Catalogs and Service Manuals will contain common hardware entries and hardware references (see "Hardware References") instead of part numbers for common hardware.

Kohler Specification G-585 gives common hardware application guidelines. Use the information below and on the following pages to identify proper fastening techniques when no specific reference for reassembly is made.

- **Bolt/Screw Length:** When bolt/screw length is not given, use Figure 2 as a guide. As a general rule, a minimum length of one thread beyond the nut and a maximum length of $\frac{1}{2}$ the bolt/screw diameter beyond the nut is the preferred method.

- **Split Lock Washers:** Split lock washers will no longer be used as a locking device. For hardware up to $\frac{1}{2}$ " in diameter a whiz nut (serrated flange) will be used. The locking method used for hardware above $\frac{1}{2}$ " in diameter will be SAE flat washers with preloading (torque) of the bolt/screw. See "General Torque Specifications" and other torque specifications in the service literature.

- **Common Hardware Entries:** When hardware size (diameter and threads per inch) is given but no indication of type of additional hardware is shown, use the illustration in Figure 3 as a guide.

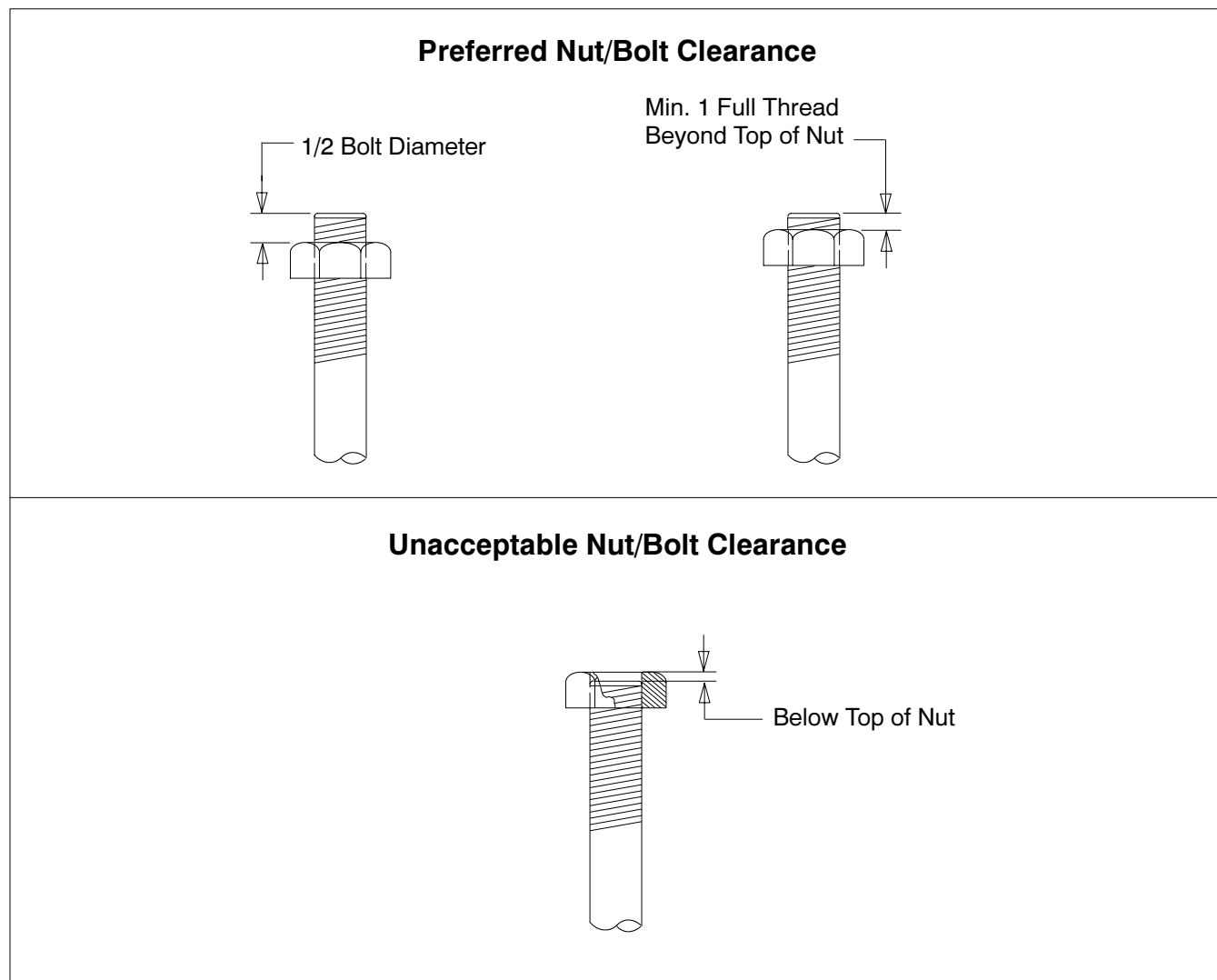


Figure 2. Acceptable Bolt Lengths

Series 1104 & 1105

Common Hardware Application (G-585)

Steps for common hardware application:

1. Determine entry hole type: round, or slotted.
2. Determine exit hole type: fixed female thread (weld nut), round, or slotted.
For round and slotted exit holes, determine if hardware is greater than 1/2 inch in diameter, or 1/2 inch in diameter or less. Hardware that is *greater than 1/2 inch* in diameter takes a standard nut and SAE washer. Hardware *1/2 inch or less* in diameter can take a properly torqued whiz nut. See the diagram below.
3. Follow these SAE washer rules after determining exit hole type:
 - a. Always use a washer between hardware and a slot.
 - b. Always use a washer under a nut (see 2. above for exception).
 - c. Use a washer under a bolt when the female thread is fixed (weld nut).
4. Refer to the diagram below, which depicts the preceding hardware configuration possibilities.

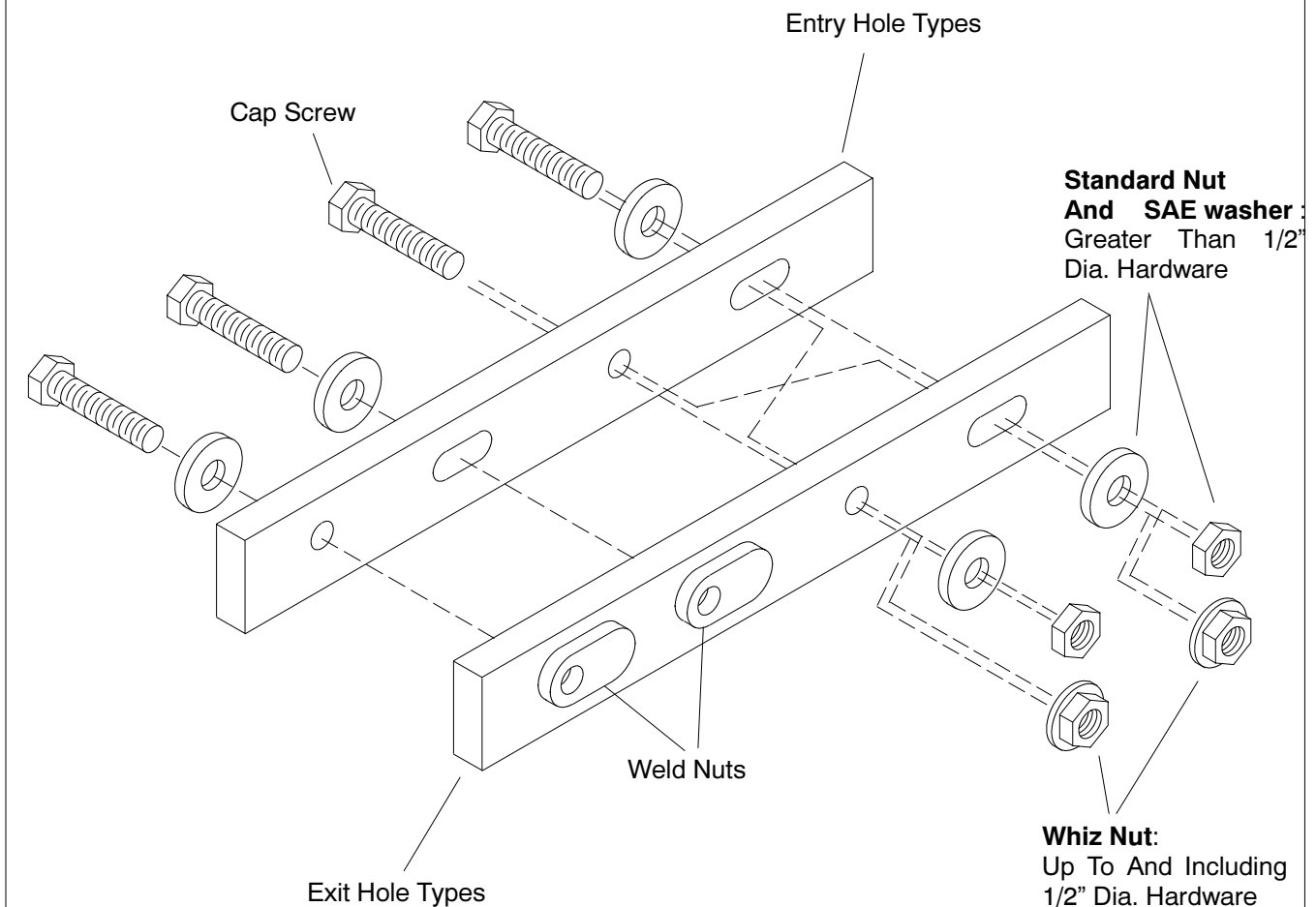


Figure 3. Acceptable Hardware Combinations

Series 1104 & 1105

Nuts

STYLES



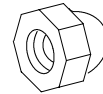
Hex. Head



Lock Nut or
Nylock Nut



Square Nut



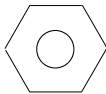
Cap Nut or
Acorn Nut



Wing Nut

GRADE (HARDNESS)

American Standard

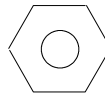


Grade 2

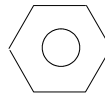


Grade 5

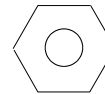
Metric



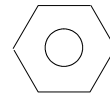
6.8



8.8



10.9



12.9

SAMPLE DIMENSIONS

American Standard

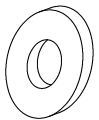
Major Thread Diameter In Fractional 1/4-20 Threads Per Inch
Inches Or Screw Number Size

Metric

Major Thread Diameter In Millimeters M8-1.25 Distance Between Threads In Millimeters

Washers

STYLES



Plain
Washer



Split
Washer
or
Spring Washer



Spring Washer
or Wave Washer



External
Tooth Lock
Washer



Internal
Tooth Lock
Washer



Internal-External
Tooth Lock Washer

GRADE (HARDNESS)

There is no marking to identify hardness. Usually hardened washers have a black oxide or black phosphate finish rather than a zinc (silver-colored) finish.

SAMPLE DIMENSIONS

Plain Washers

Internal Dimension 9/32 x 5/8 x 1/16 Thickness
External Dimension

Lock Washers

5/8
Internal Dimension

Figure 5. Nuts and Washers

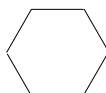
Series 1104 & 1105

General Torque Specifications

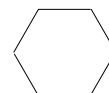
The values given are for clean, dry threads.

AMERICAN STANDARD

Assembled in Cast Iron or Steel



Assembled in Aluminum



Size	Measurement	Grade 2	Grade 5	Grade 8	Grade 2 or 5
8-32	in. lbs. (Nm)	20 (2.3)	25 (2.8)	-	20 (2.3)
10-24	in. lbs. (Nm)	32 (3.6)	40 (4.5)	-	32 (3.6)
10-32	in. lbs. (Nm)	32 (3.6)	40 (4.5)	-	-
1/4-20	in. lbs. (Nm)	70 (7.9)	115 (13)	165 (18.6)	70 (7.9)
1/4-28	in. lbs. (Nm)	85 (9.6)	140 (15.8)	200 (22.6)	-
5/16-18	in. lbs. (Nm)	150 (17)	250 (28.2)	350 (40)	150 (17)
5/16-24	in. lbs. (Nm)	165 (18.6)	270 (30.5)	360 (41)	-
3/8-16	ft. lbs. (Nm)	22 (30)	35 (45)	50 (65)	
3/8-24	ft. lbs. (Nm)	25 (35)	40 (54)	60 (80)	
7/16-14	ft. lbs. (Nm)	35 (45)	55 (75)	80 (108)	
7/16-20	ft. lbs. (Nm)	45 (54)	75 (105)	105 (142)	
1/2-13	ft. lbs. (Nm)	50 (65)	80 (110)	115 (155)	
1/2-20	ft. lbs. (Nm)	70 (95)	105 (140)	165 (224)	
9/16-12	ft. lbs. (Nm)	75 (105)	125 (165)	175 (237)	
9/16-18	ft. lbs. (Nm)	100 (136)	165 (224)	230 (312)	
5/8-11	ft. lbs. (Nm)	110 (149)	180 (244)	260 (353)	
5/8-18	ft. lbs. (Nm)	140 (190)	230 (312)	330 (447)	
3/4-10	ft. lbs. (Nm)	150 (203)	245 (322)	350 (475)	
3/4-16	ft. lbs. (Nm)	200 (271)	325 (440)	470 (637)	

Sample Dimensions

American Standard

Major Thread Diameter In Fractional 1/4-20 x 1 Length In Inches
 Inches Or Screw Number Size Threads Per Inch

Series 1104 & 1105

Group Title & Number	ENGINE GROUPS												GENERATOR GROUPS													
	GASKETS & SEALS	CYLINDER BLOCK	CYLINDER HEAD & VALVES	FRONT COVER ASSEMBLY	CAMSHAFT & VALVE CONTROL	CRANKSHAFT & PISTON	FLYWHEEL & CLUTCH	OIL PUMP & OIL PAN	FAN & WATER PUMP	INTAKE/EXHAUST MANIFOLDS	IGNITION MODULE & S. PLUGS	AIR INTAKE	FUEL SYSTEM	COOLING SYSTEM	ENGINE	NAMEPLATE & DECALS	OIL PRESSURE GAUGE	SKID & PLANT MTG.	TEMPERATURE SWITCH	STARTER	ALTERNATOR	GENERATOR & MTG.	CONTROLLER & MTG.	LITERATURE	ACCESSORIES	
Group No.	1	2	3	4	5	6	7	8	9	10	12	101	103	104	105	107	108	109	110	112	113	201	301	701	-	
Page No.	1	3	5	7	9	11	15	17	19	21	23	25	27	31	35	39	41	43	45	47	49	51	59	61	62	

Spec. No.

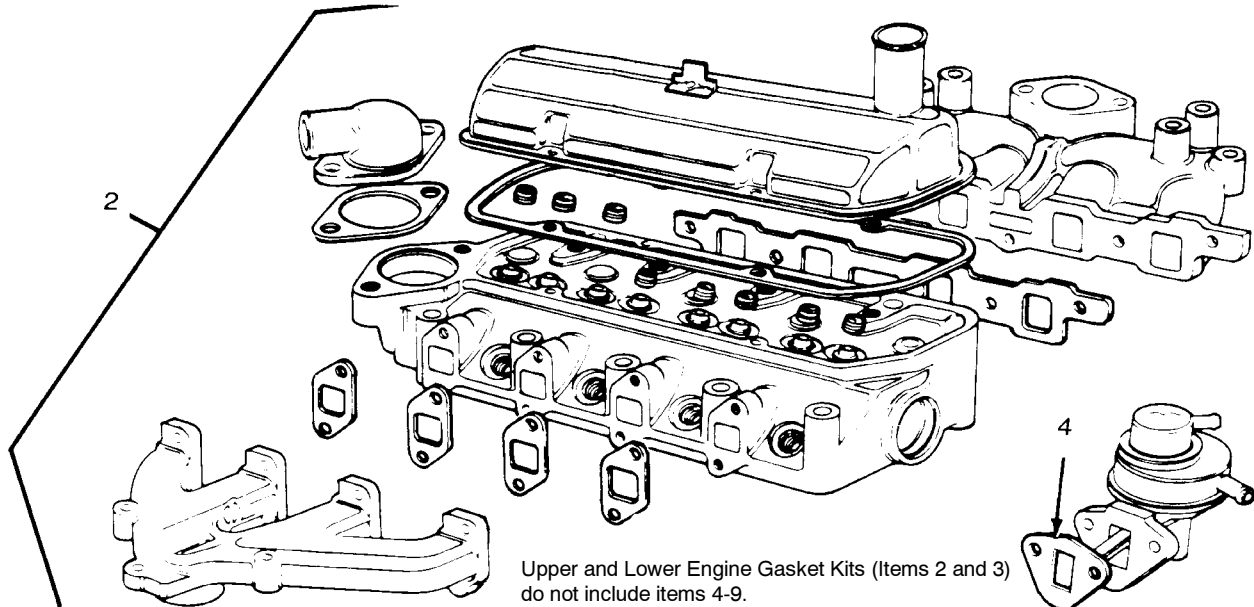
Variation Number

110401	1	1	1	1	1	1	1	1	1	1	1	3	5	8	7	3	2	5	3	3	1	5	-	4	-
110402	1	1	1	1	1	1	1	1	1	1	1	4	6	8	7	3	2	5	3	3	1	5	10	4	-
110407	1	1	1	1	1	1	1	1	1	1	1	3	5	8	7	5	2	8	3	4	1	8	-	5	-
110408	1	1	1	1	1	1	1	1	1	1	1	4	6	8	7	5	2	8	3	4	1	8	11	5	-
110412	1	1	1	1	1	1	1	1	1	1	1	3	-	-	7	3	2	5	3	3	1	5	-	4	-
110413	1	1	1	1	1	1	1	1	1	1	1	3	-	-	7	5	2	8	3	4	1	8	-	5	-
110414	1	1	1	1	1	1	1	1	1	1	1	3	-	-	7	5	2	8	3	4	3	16	-	5	-
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110418	1	1	1	1	1	1	1	1	1	1	1	3	8	10	7	3	2	10	3	4	3	8	11	5	-
110419	1	1	1	1	1	1	1	1	1	1	1	3	-	-	7	3	2	9	3	3	3	5	-	4	-
110420	1	1	1	1	1	1	1	1	1	1	1	3	-	-	7	5	2	10	3	4	3	8	-	5	-
110421	1	1	1	1	1	1	1	1	1	1	1	3	-	-	7	5	2	10	3	4	3	16	-	5	-
110422	1	4	1	1	1	1	1	1	2	2	1	3	8	13	18	3	-	9	3	3	3	5	10	4	-
110425	1	4	1	1	1	1	1	1	2	2	1	3	8	13	18	5	-	10	3	4	3	8	11	5	-
110426	1	4	1	1	1	1	1	1	2	2	1	3	-	-	18	3	-	9	3	3	3	5	-	4	-
110427	1	4	1	1	1	1	1	1	2	2	1	3	-	-	18	5	-	10	3	4	3	8	-	5	-
110428	1	4	1	1	1	1	1	1	2	2	1	3	-	-	18	5	-	10	3	4	3	16	-	5	-
110434	3	3	1	1	1	3	3	2	2	2	1	3	8	13	22	5	-	9	3	3	3	5	10	4	-
110437	3	3	1	1	1	3	3	2	2	2	1	3	8	13	22	5	-	10	3	4	3	8	11	5	-
110438	3	3	1	1	1	3	3	2	2	2	1	3	-	-	22	3	-	9	3	3	3	5	-	4	-
110439	3	3	1	1	1	3	3	2	2	2	1	3	-	-	22	5	-	10	3	4	3	8	-	5	-
110440	3	3	1	1	1	3	3	2	2	2	1	3	-	-	22	15	-	10	3	4	3	16	-	5	-
110501	2	2	2	1	2	2	2	2	1	1	1	3	5	8	8	4	2	5	3	3	1	6	-	4	-
110502	2	2	2	1	2	2	2	2	1	1	1	4	6	8	8	4	2	5	3	3	1	6	10	4	-
110505	2	2	2	1	2	2	2	2	1	1	1	3	5	8	8	6	2	8	3	4	1	9	-	5	-
110506	2	2	2	1	2	2	2	2	1	1	1	4	6	8	8	6	2	8	3	4	1	9	11	5	-
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110514	2	2	2	1	2	2	2	2	1	1	1	3	-	-	8	6	2	8	3	4	3	17	10	4	-
110515	2	2	2	1	2	2	2	2	1	1	1	3	5	10	8	4	2	9	3	3	3	6	-	4	-
110517	2	2	2	1	2	2	2	2	1	1	1	3	8	10	8	6	2	10	3	4	3	9	11	5	-
110519	2	2	2	1	2	2	2	2	1	1	1	3	-	-	8	4	2	9	3	3	3	6	-	4	-
110520	2	2	2	1	2	2	2	2	1	1	1	3	-	-	8	6	2	10	3	4	3	9	-	5	-
110521	2	2	2	1	2	2	2	2	1	1	1	3	-	-	8	6	2	10	3	4	3	17	-	5	-
110522	2	5	2	1	2	2	2	2	1	2	1	3	8	13	15	4	-	9	3	3	3	6	10	5	-
110524	2	5	2	1	2	2	2	2	1	2	1	3	8	12	15	6	-	10	3	4	3	9	11	5	-
110526	2	5	2	1	2	2	2	2	1	2	1	3	-	-	15	4	-	9	3	3	3	6	-	4	-
110527	2	5	2	1	2	2	2	2	1	2	1	3	-	-	15	6	-	10	3	4	3	9	-	5	-
110528	2	5	2	1	2	2	2	2	1	2	1	3	-	-	15	16	-	10	3	4	3	17	-	5	-

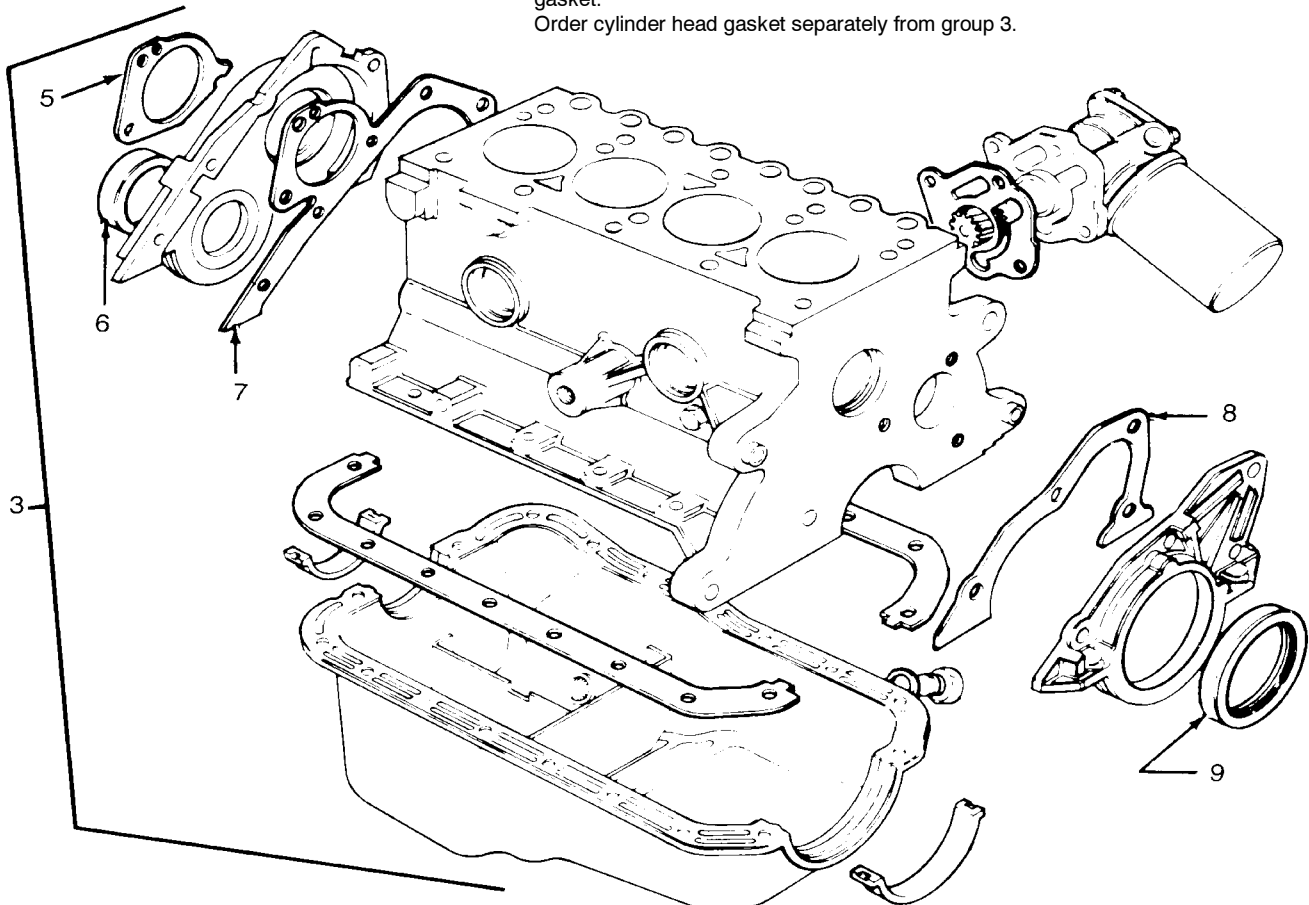
Note: If no variation number is listed under Fuel System (103), Cooling System (104), and Controller and Mounting (301) groups, those items were purchased as installed or loose accessories. Refer to Accessories at the end of this manual for accessory components.

Series 1104 & 1105

Group 1 Gaskets & Seals



Upper and Lower Engine Gasket Kits (Items 2 and 3) do not include items 4-9.
Upper Gasket Kit does not include a cylinder head gasket.
Order cylinder head gasket separately from group 3.



Series 1104 & 1105

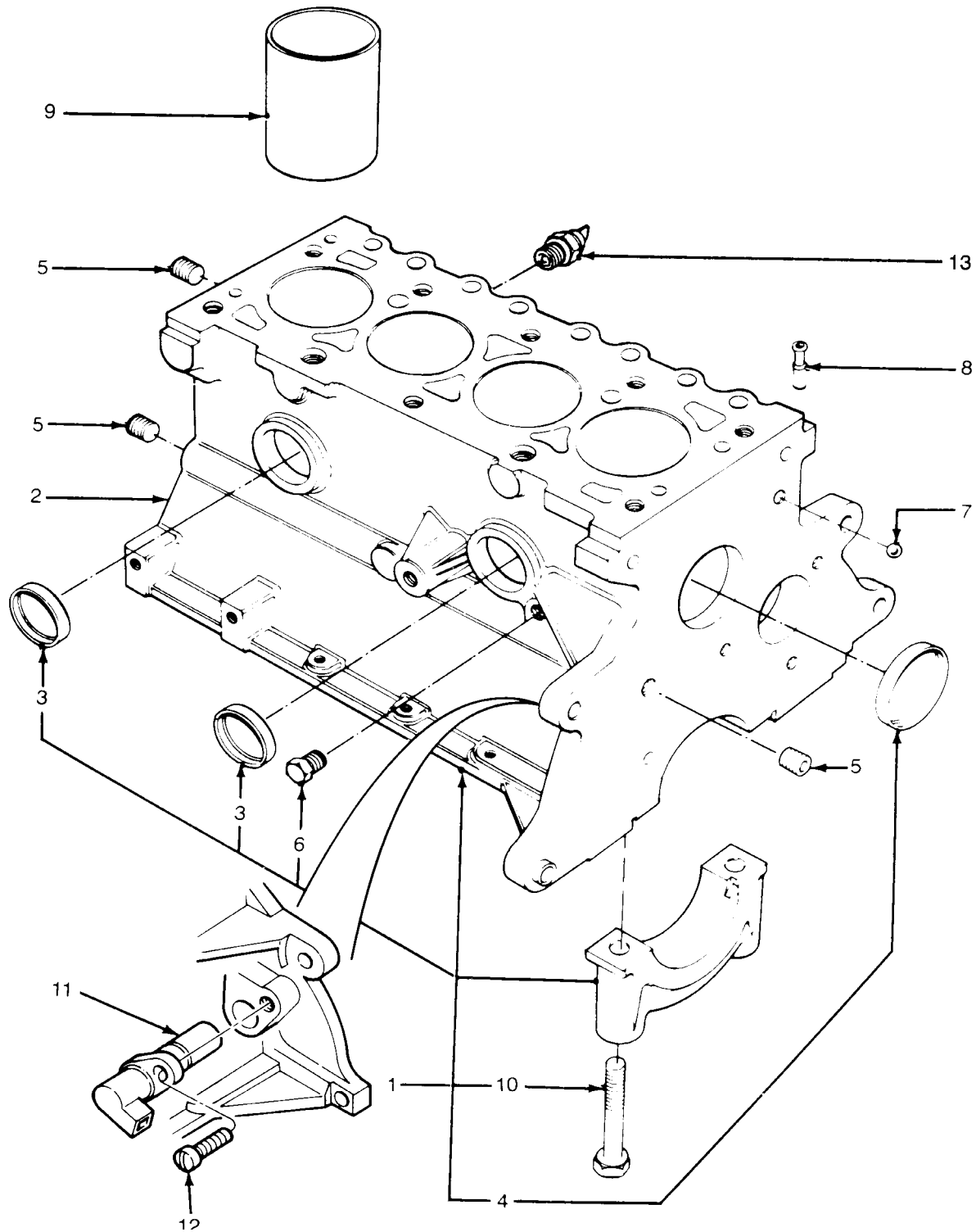
Group 1 Gaskets & Seals

Item Qty.	Description Variation(s)	Part No.	Item Qty.	Description Variation(s)	Part No.
1	1 Engine Gasket Kit - Complete 1,3	224704	6	1 Seal, front cover 1,2,3	279112
	1 Engine Gasket Kit - Complete 2	224705	7	1 Gasket, front cover 1,2,3	224722
2	1 Engine Gasket Kit - Upper 1,3	224706	8	1 Gasket, rear retainer 1	224748
	1 Engine Gasket Kit - Upper 1,3, 2 (See Note in Illustration)	224707	1	Gasket, rear retainer 2,3	224749
3	1 Engine Gasket Kit - Lower 1,3	224704 279145	9	1 Seal, crankshaft rear 1	224782
	1 Engine Gasket Kit - Lower 2	279145	1	Seal, crankshaft rear 2,3	276192
4	1 Gasket, fuel pump 1,2,3	246058			
5	1 Gasket, water pump 1,2,3	224773			

NOTE: Items 4-9 are not included in Upper and Lower Engine Gasket Kits (Items 2 and 3).

Series 1104 & 1105

Group 2 Cylinder Block



#Common Hardware, Procure Locally

Series 1104 & 1105

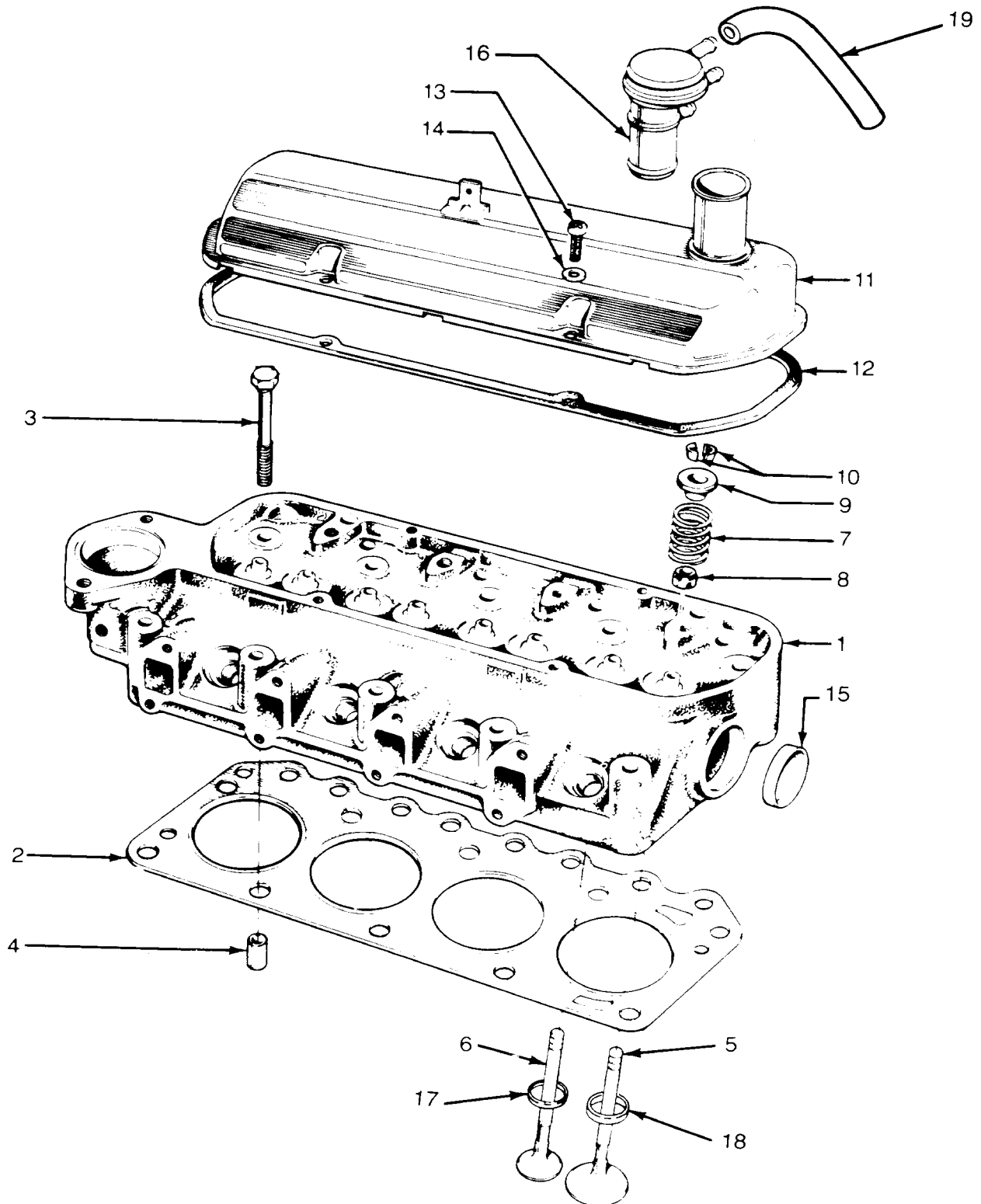
Group 2 Cylinder Block

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Block, cylinder (basic) 1,4	224717	6	1	Plug, 1/4 NPT 1,2,3,4,5	#
	1	Block, cylinder (basic) 2,5	224718	7	1	Plug, ball (oil gallery) 1,2,3,4,5	279214
	1	Block, cylinder (basic) 3	276194	8	1	Adapter 1,2,3,4,5	279193
2	1	Block, cylinder (includes crank, pistons, rings, etc.) 1,4	224719	9	4	Liner, cylinder 1,3,4	224726
	1	Block, cylinder (includes crank, pistons, rings, etc.) 2,5	224720		4	Liner, cylinder 2,5	224727
	1	Block, cylinder (includes crank, pistons, rings, etc.) 3	276195	10	6	Bolt, main bearing cap 1,4	279173
3	2	Plug, 41.6 mm 1,2,3,4,5	279188		10	Bolt, main bearing cap 2,3,5	279173
4	1	Plug, 51 mm 1,2,3,4,5	279187	11	1	Transducer (speed sensor) 1,2,3,4,5	224716
5	3	Plug, 1/4 NPT 1,2,3,4,5	#	12	1	Screw, M6 x 14 1,2,3,4,5	#
				13	1	Switch, oil pressure 3,4,5	328309

#Common Hardware, Procure Locally

Series 1104 & 1105

Group 3 Cylinder Head & Valves



#Common Hardware, Procure Locally

Series 1104 & 1105

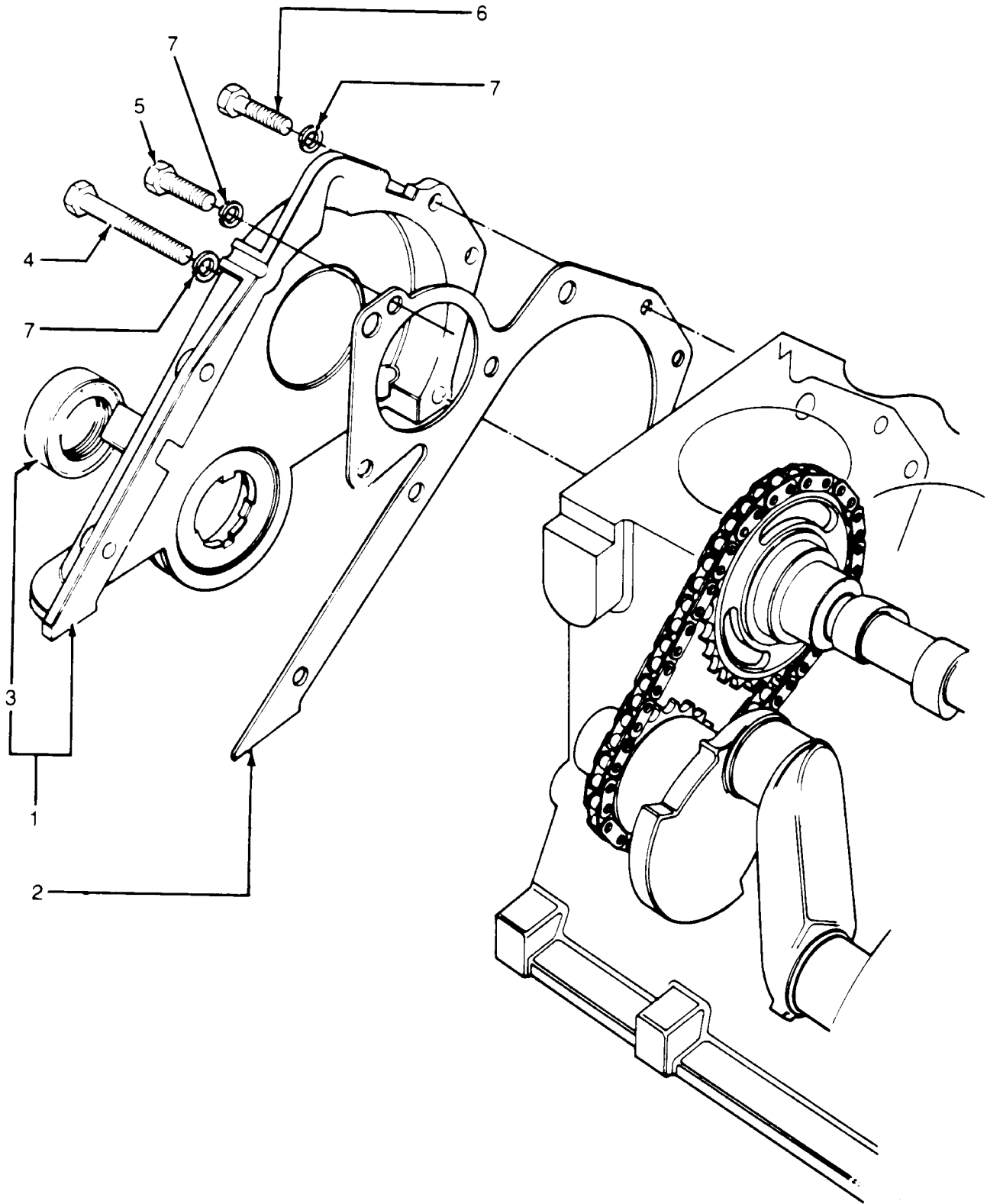
Group 3 Cylinder Head & Valves

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Cylinder Head Assembly 1	GM24858	9	8	Retainer 1,2	224770
	1	Cylinder Head Assembly 2	224723	10	16	Lock, valve spring 1,2	224708
2	1	Gasket, cylinder head 1	224724	11	1	Cover, rocker arm 1,2	224762
	1	Gasket, cylinder head 2	224725	12	1	Gasket, rocker arm cover 1,2	279084
3	10	Bolt, cylinder head 1,2	224731	13	4	Screw, rocker cover/head 1,2	224789
4	2	Dowel, cylinder head to block 1,2	224791	14	4	Washer, flat (6 mm) 1,2	#
5	4	Valve, intake (std.) 1	224755	15	1	Plug (41.6 mm) 1,2	279188
	4	Valve, intake (std.) 2	224757	16	1	Cap, oil (breather) 1,2	279115
	4	Valve, intake (0.40 O/S) 1	224756	17	4	Insert, exhaust valve seat 1,2	224730
	4	Valve, intake (0.40 O/S) 2	224758	18	4	Insert, intake valve seat 1	224728
6	4	Valve, exhaust (std.) 1,2	224754		4	Insert, intake valve seat 2	224729
	4	Valve, exhaust (0.40 O/S) 1,2	224753	19	1	Hose, PCV 1,2	224794
7	8	Spring, valve 1,2	224759				
8	8	Seal, valve stem 1,2	224709				

#Common Hardware, Procure Locally

Series 1104 & 1105

Group 4 Front Cover Assembly



#Common Hardware, Procure Locally

Series 1104 & 1105

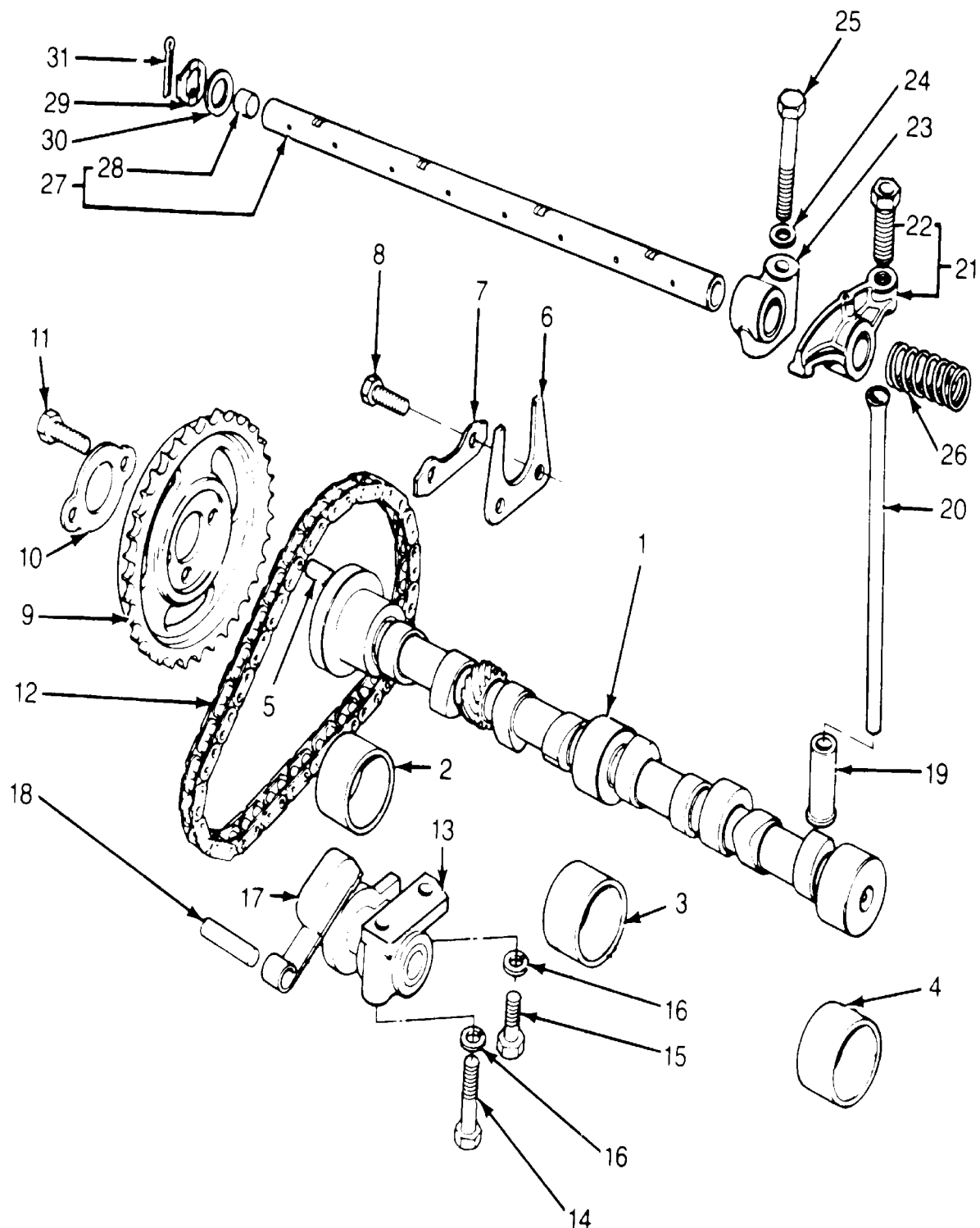
Group 4 Front Cover Assembly

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Cover and Seal Assembly 1	224721	5	3	Bolt, M6 x 40 1	#
2	1	Gasket, front cover 1	224722	6	4	Bolt, M6 x 18 1	#
3	1	Seal, front cover 1	279111	7	8	Washer, split lock (B6) 1	#
4	1	Bolt, M6 x 45 1	#				

#Common Hardware, Procure Locally

Series 1104 & 1105

Group 5 Camshaft & Valve Control



#Common Hardware, Procure Locally

Series 1104 & 1105

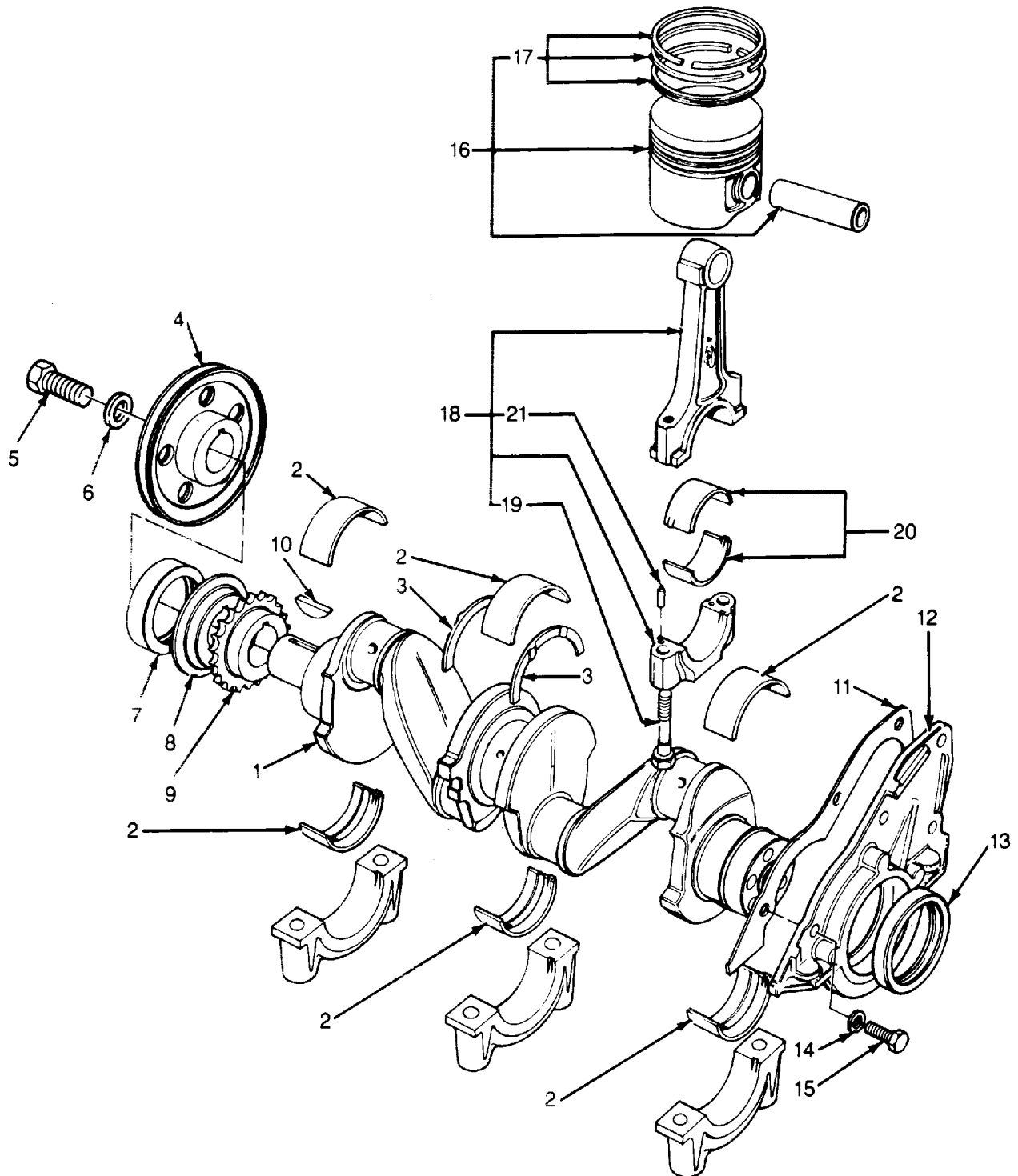
Group 5 Camshaft & Valve Control

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Camshaft 1	224739	19	8	Tappet, std. 1,2	224752
	1	Camshaft 2	224740	20	8	Rod, push valve 1,2	224761
2	1	Bearing, std. ID - std. OD 1,2	279155	21	4	Arm, valve rocker (right w/screw) 1,2	224760
	1	Bearing, std. ID - 0.020 OD 1,2	279156	4		Arm, valve rocker (left w/screw) 1,2	224771
3	1	Bearing, std. ID - std. OD 1,2	279157	22	8	Screw, self locking 1,2	279163
	1	Bearing, std. ID - 0.020 OD 1,2	279158	23	4	Support, rocker arm shaft 1,2	279081
4	1	Bearing, std. ID - std. OD 1,2	279157	24	4	Washer, B10 x 20 x 2.5 1,2	#
	1	Bearing, std. ID - 0.020 OD 1,2	279158	25	4	Bolt, rocker support 1,2	224788
5	1	Pin, dowel 1,2	279152	26	3	Spring, locating 1,2	279164
6	1	Plate, thrust 1,2	279160	27	1	Rocker Arm Shaft Assembly 1,2	279091
7	1	Retainer 1,2	279153	28	2	Plug, rocker arm shaft (11 mm) 1,2	279170
8	2	Bolt, M6 x 16 1,2	#	29	2	Washer, spring 1,2	279085
9	1	Sprocket, camshaft 1,2	279067	30	2	Washer, flat 1,2	279048
10	1	Retainer 1,2	279154	31	2	Pin, cotter (2.3 mm) 1,2	279055
11	2	Bolt, M8 x 16 1,2	#				
12	1	Chain 1,2	279159				
13	1	Tensioner 1,2	279171				
14	1	Bolt, M6 x 55 1,2	#				
15	1	Bolt, M6 x 16 1,2	#				
16	2	Washer, 1/4 split lock 1,2	#				
17	1	Arm, tensioner 1,2	279092				
18	1	Pin 1,2	279172				

#Common Hardware, Procure Locally

Series 1104 & 1105

Group 6 Crankshaft and Piston



#Common Hardware, Procure Locally

Series 1104 & 1105

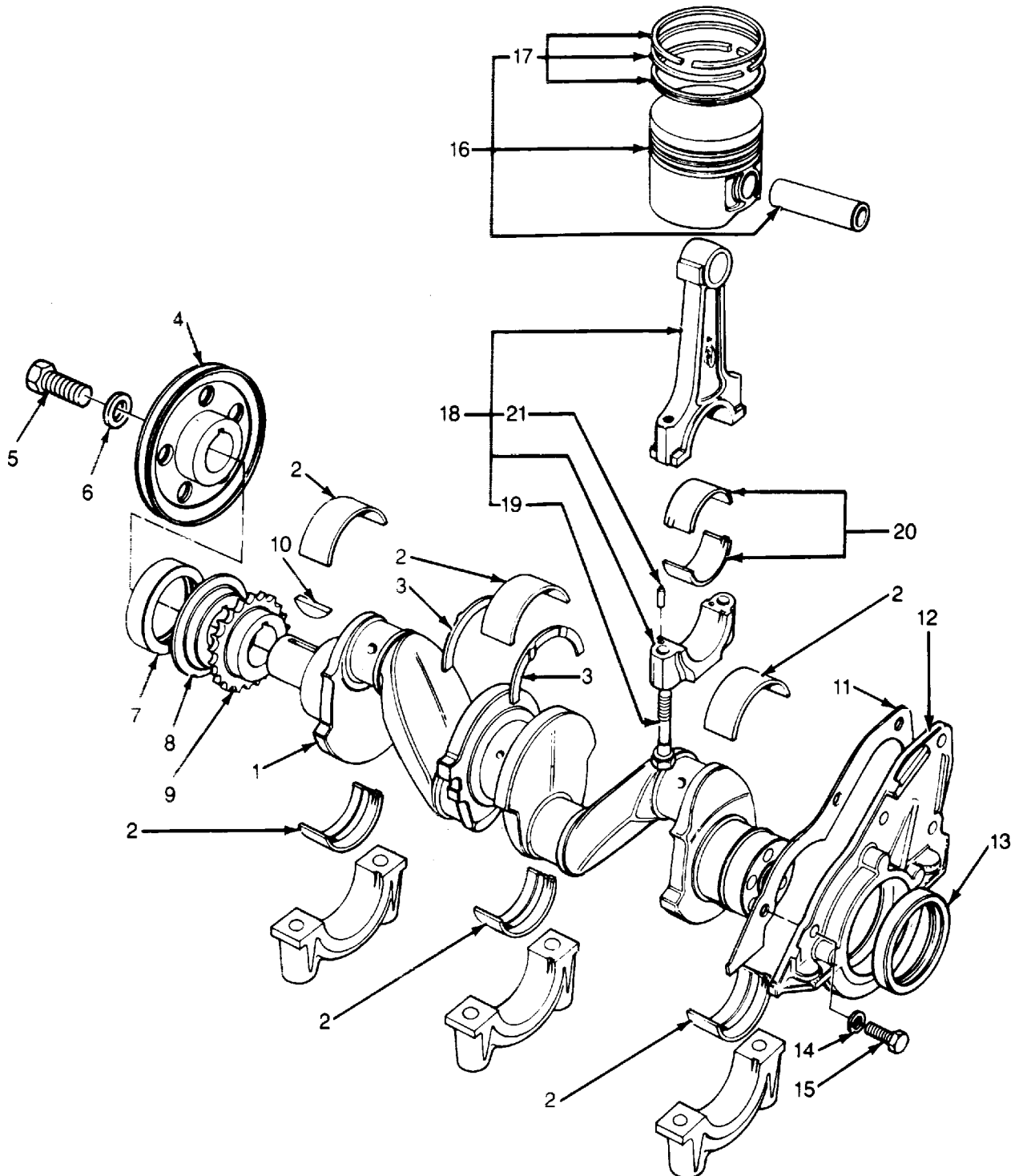
Group 6 Crankshaft & Piston

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Crankshaft Assembly 1	224741	8	1	Slinger, oil 1,2,3	279189
	1	Crankshaft Assembly 2,3	224742	9	1	Sprocket 1,2,3	279161
2	3	Main Bearing (upper half) (std. OD - std ID) 1	224743	10	1	Key, woodruff 1,2,3	279169
	5	Main Bearing (upper half) (std. OD - std. ID) 2,3	224743	11	1	Gasket, rear retainer 1	224748
	3	Main Bearing (lower half) (std. OD-std. ID) 1	276193		1	Gasket, rear retainer 2,3	224749
	5	Main Bearing (lower half) (std. OD-std. ID) 2,3	276193	12	1	Rear Retainer Assembly 1	279093
	3	Main Bearing (std. OD - 0.005 US ID) 1	224744		1	Rear Retainer Assembly 2,3	279142
	5	Main Bearing (std. OD - 0.005 US ID) 2,3	224744	13	1	Seal, crankshaft rear 1	224782
	3	Main Bearing (std. OD - 0.010 US ID) 1	224745		1	Seal, crankshaft rear 2,3	276192
	5	Main Bearing (std. OD - 0.010 US ID) 2,3	224745	14	4	Washer, lock (B8) 1,2,3	#
	3	Main Bearing (std. OD - 0.020 US ID) 1	224746	15	4	Bolt, M8 x 20 1,2,3	#
	5	Main Bearing (std. OD - 0.020 US ID) 2,3	224746	16	4	Piston Assembly (std.) 1,3	224732
	3	Main Bearing (std. OD - 0.030 US ID) 1	224747		4	Piston Assembly (std.) 2	224735
	5	Main Bearing (std. OD - 0.030 US ID) 2,3	224747		4	Piston Assembly (0.020 OS) 1,3	224733
3	2	Washer, main bearing (std.) 1,2,3	224768		4	Piston Assembly (0.020 OS) 2	224736
	2	Washer, main bearing (0.015 OS) 1,2,3	224769		4	Piston Assembly (0.040 OS) 1,3	224734
4	1	Pulley, crankshaft 1,2,3	224701		4	Piston Assembly (0.040 OS) 2	224737
5	1	Bolt, pulley/crankshaft 1,2,3	#	17	4	Ring Set (std.) 1,3	276434
6	1	Washer, pulley/crankshaft (B12) 1,2,3	#		4	Ring Set (0.020 OS) 1,3	276435
7	1	Seal, timing cover 1,2,3	279112		4	Ring Set (0.040 OS) 1,3	276436
					4	Ring Set (std.) 2	276437
					4	Ring Set (0.020 OS) 2	276438
					4	Ring Set (0.040 OS) 2	276439

#Common Hardware, Procure Locally

Series 1104 & 1105

Group 6 Crankshaft and Piston (continued)



Series 1104 & 1105

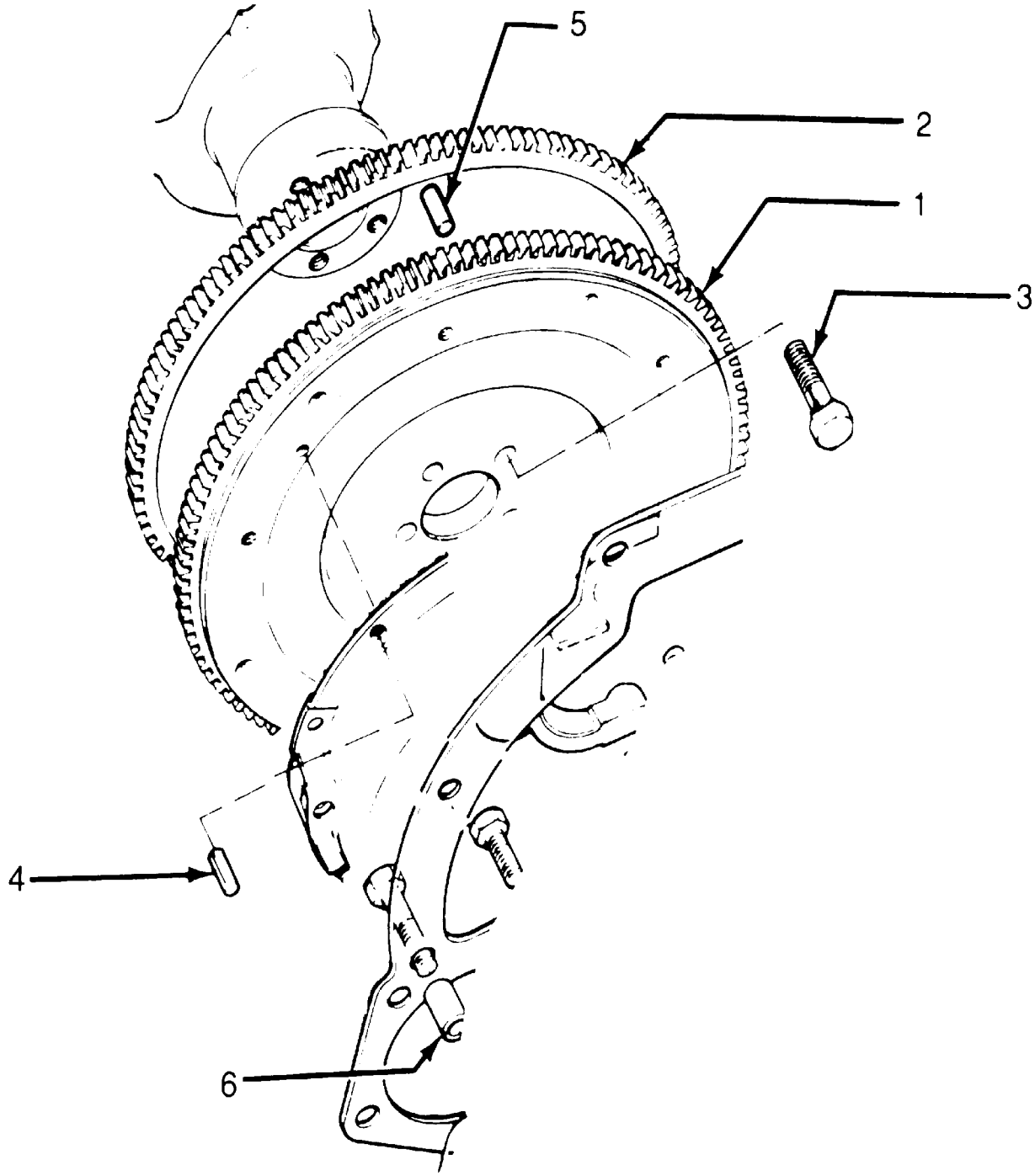
Group 6 Crankshaft & Piston - continued

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
18	4	Connecting Rod Assembly (see note) 1,2,3	276440				
19	8	Bolt, connecting rod 1,2,3	224738				
20	8	Bearing, connecting rod (std.) 1,2,3	276441				
	8	Bearing, connecting rod (0.001 US) 1,2,3	276442				
	8	Bearing, connecting rod (0.020 US) 1,2,3	276443				
	8	Bearing, connecting rod (0.030 US) 1,2,3	276444				
21	8	Pin, connecting rod 1,2,3	276445				

Note: This part needs to be verified with the engine serial number through Ford Motor Co.

Series 1104 & 1105

Group 7 Flywheel & Clutch



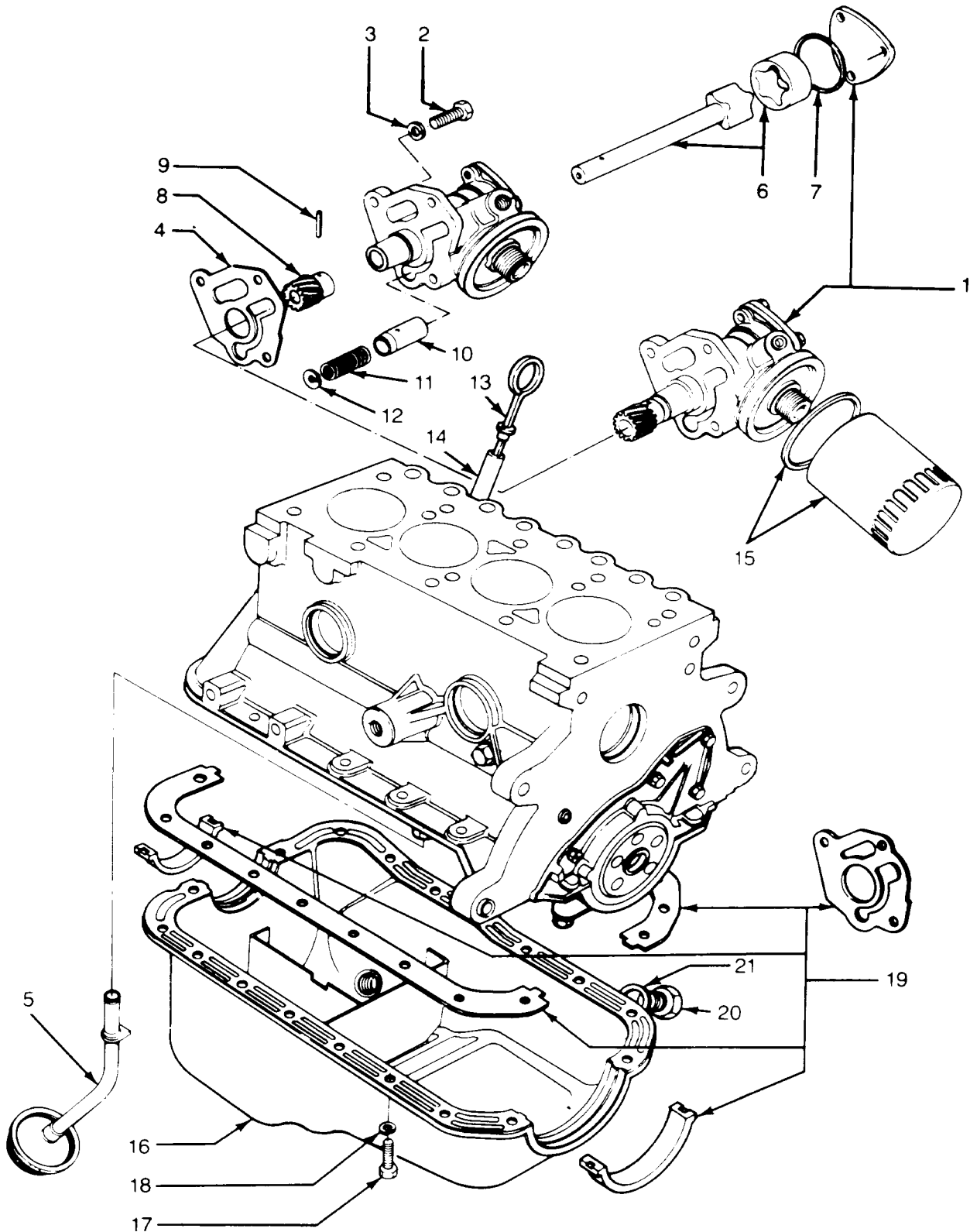
Series 1104 & 1105

Group 7 Flywheel & Clutch

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Flywheel/Ring Gear Assembly 1	224750				
	1	Flywheel/Ring Gear Assembly 2,3	224751				
2	1	Gear, ring 1,2,3	279190				
3	5	Bolt, M10 x 22.5 1	224780				
	6	Bolt, M10 x 22.5 2,3	224780				
4	3	Dowel 1,2,3	224779				
5	1	Dowel, flywheel/crankshaft 1,2,3	224792				
6	2	Dowel 1,2,3	279053				

Series 1104 & 1105

Group 8 Oil Pump & Pan



#Common Hardware, Procure Locally

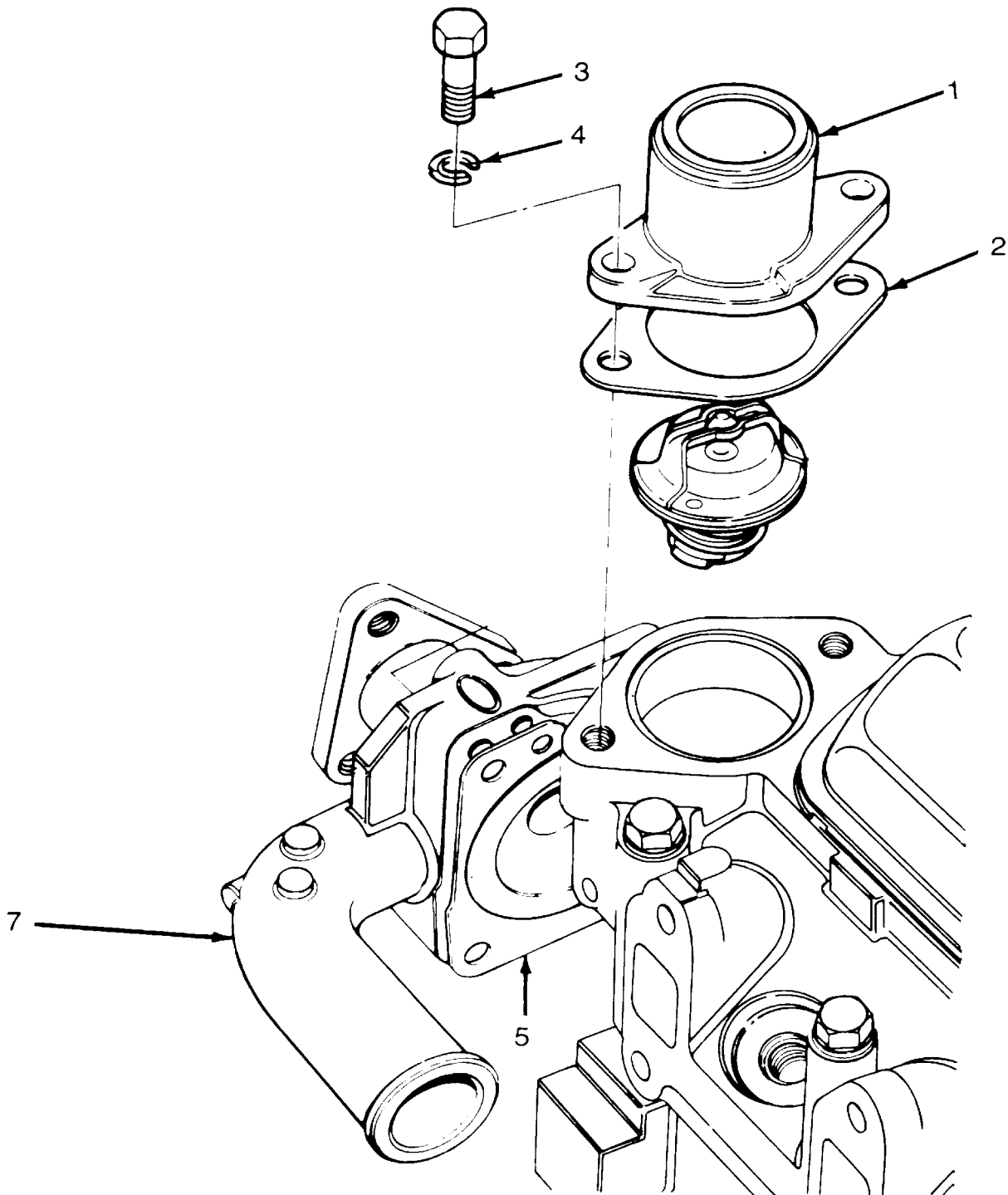
Series 1104 & 1105

Group 8 Oil Pump & Pan

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Pump, oil 1,2	279191	17	18	Bolt, oil pan (M6 x 14) 1,2	#
2	3	Bolt 1,2	224790	18	18	Washer, lock 1/4 1,2	#
3	3	Washer, lock (B8) 1,2	224787	19	1	Kit, oil pan gasket 1	279143
4	1	Gasket, oil pump 1,2	224764		1	Kit, oil pan gasket 2	279145
5	1	Oil Pickup Tube Assembly 1,2	224763	20	1	Plug, oil drain 1,2	224784
6	1	Rotor and Shaft 1,2	279178	21	1	Gasket, oil drain plug 1,2	224785
7	1	Seal, cover plate 1,2	279050				
8	1	Gear, oil pump 1,2	279165				
9	1	Pin, drive gear 1,2	279060				
10	1	Plunger, oil pump 1,2	279168				
11	1	Spring 1,2	279167				
12	1	Plug 1,2	279166				
13	1	Indicator, oil level 1,2	224766				
14	1	Tube, oil level 1,2	224767				
15	1	Filter, oil 1,2	279218				
16	1	Pan, oil 1	279087				
	1	Pan, oil 2	279141				

Series 1104 & 1105

Group 9 Fan & Water Pump



Series 1104 & 1105

Group 9 Fan & Water Pump

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Connection, water outlet (vertical) 1,2	224700				
2	1	Gasket, water outlet 1,2	246059				
3	2	Bolt, M8 x 20 1,2	#				
4	2	Washer, lock (B8) 1,2	#				
5	1	Gasket, water pump 1,2	224773				
6	3	Bolt, M6 x 50 1,2	#				
7	1	Pump, water service kit (includes pump) 1	224363				
	1	Pump, water 2	326618 or 224772				

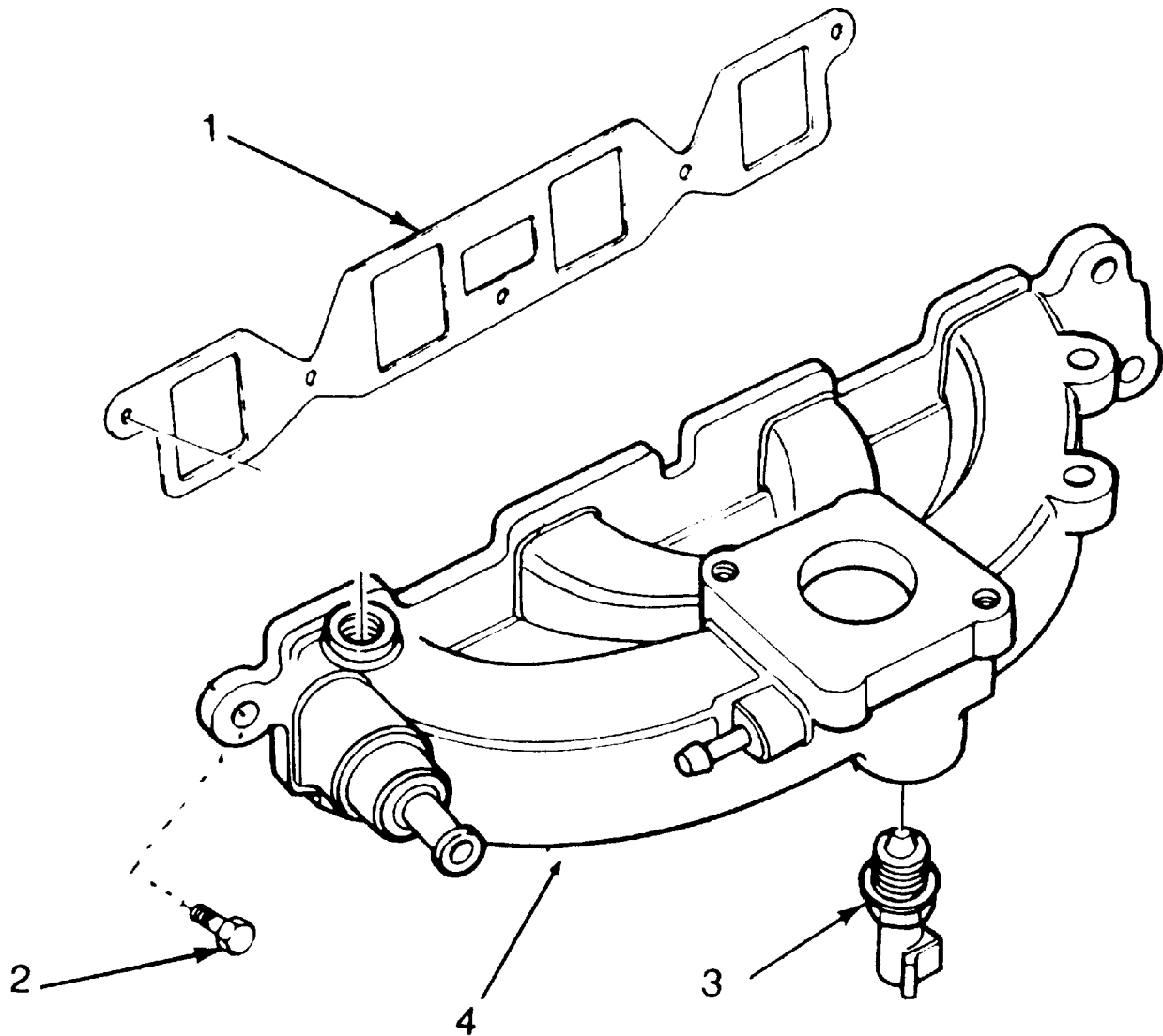
NOTE: Additional cooling system components are listed in Group 104 - Cooling System.

Series 1104 & 1105

Group 10 Intake Manifold - Gas Only

NOTE: See Air Intake Group 101 and Cooling System Group 104 for illustrations and part numbers of intake and exhaust manifolds.

NOTE: See Group 101 for Gasoline intake manifold.



Series 1104 & 1105

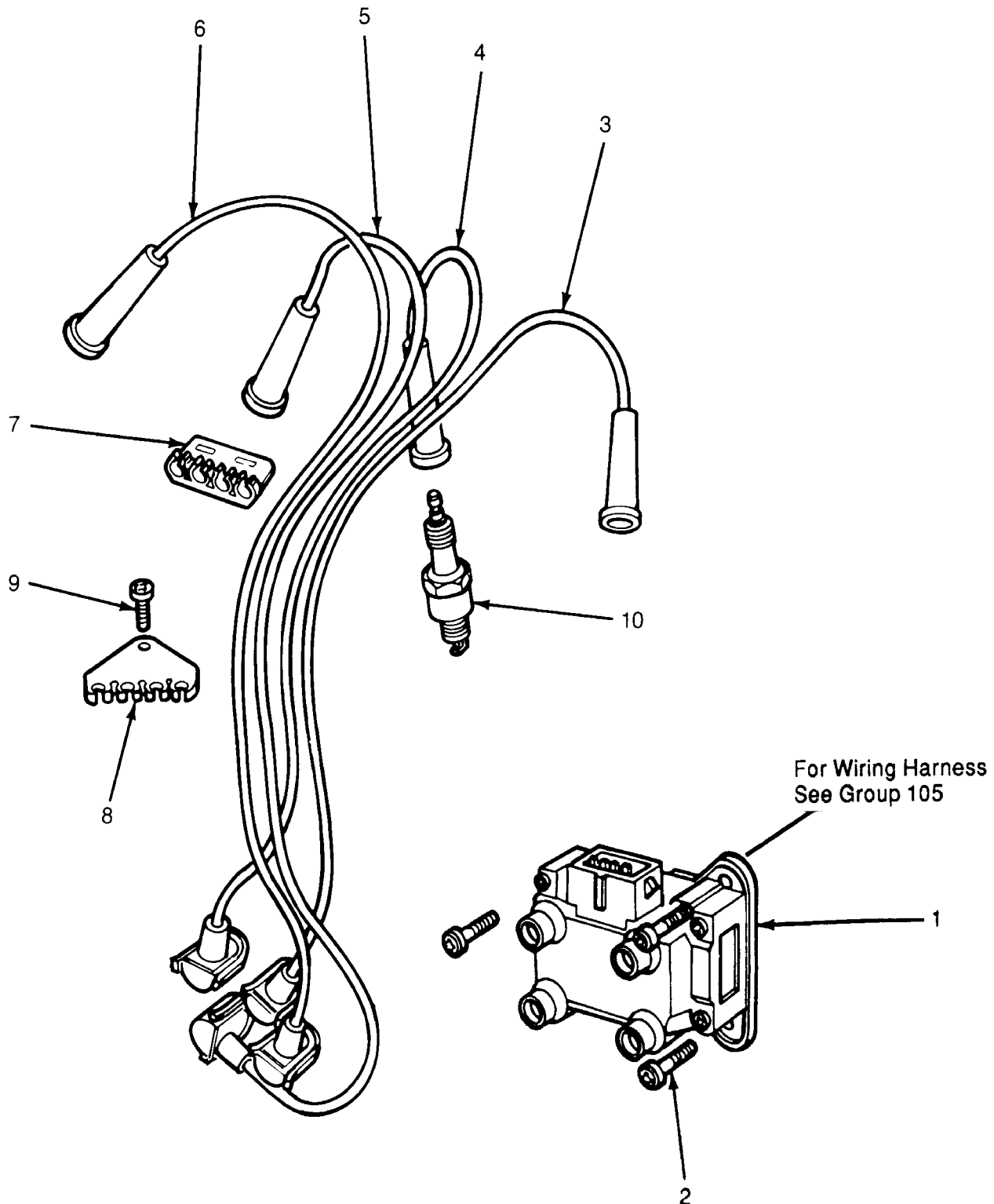
Group 10 Intake Manifold

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Gasket, intake manifold 1, 2	246067	3	1	Sensor, water temp. 1	224786
2	6	Bolt, M8 x 25 1, 2	#	4	1	Manifold, intake (gas only) 1, 2	GM42271 276466

NOTE: See Group 101 - Air Intake and Group 104 - Coolant System for additional manifold components.

Series 1104 & 1105

Group 12 Ignition Module & Spark Plugs



Series 1104 & 1105

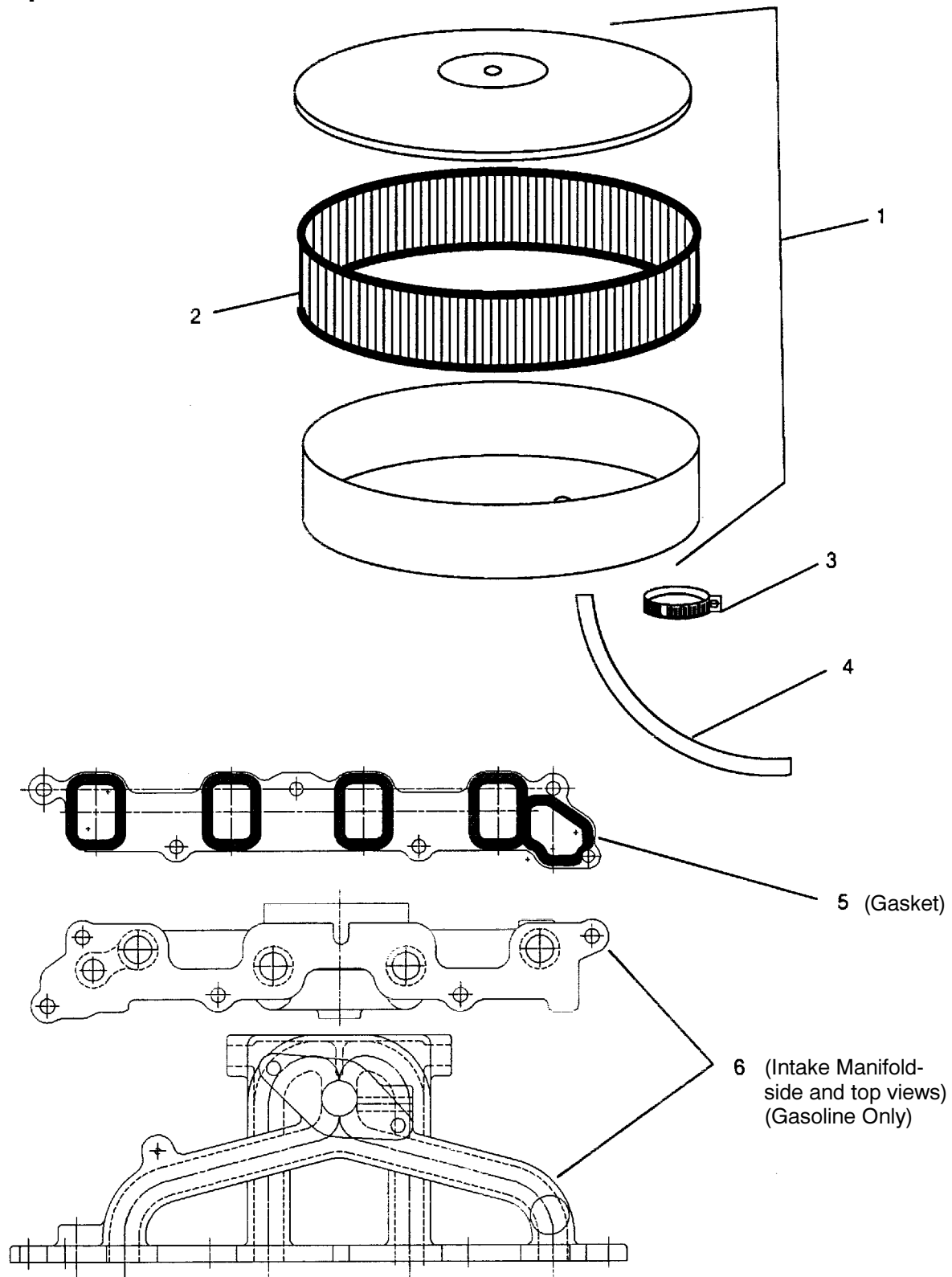
Group 12 Ignition Module & Spark Plugs

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Coil and Bracket Assembly 1	224710	6	1	Wire, spark plug #4 1	224714
2	3	Screw, M8 x 14 1	#	7	1	Separator, ignition wire 1	224793
3	1	Wire, spark plug #1 1	224713	8	1	Separator, ignition wire 1	224715
4	1	Wire, spark plug #2 1	224711	9	1	Screw, M4 x 10 1	#
5	1	Wire, spark plug #3 1	224712	10	4	Plug, spark 1	224703

NOTE: Additional ignition components are included in Engine Group 105.

Series 1104 & 1105

Group 101 Air Intake



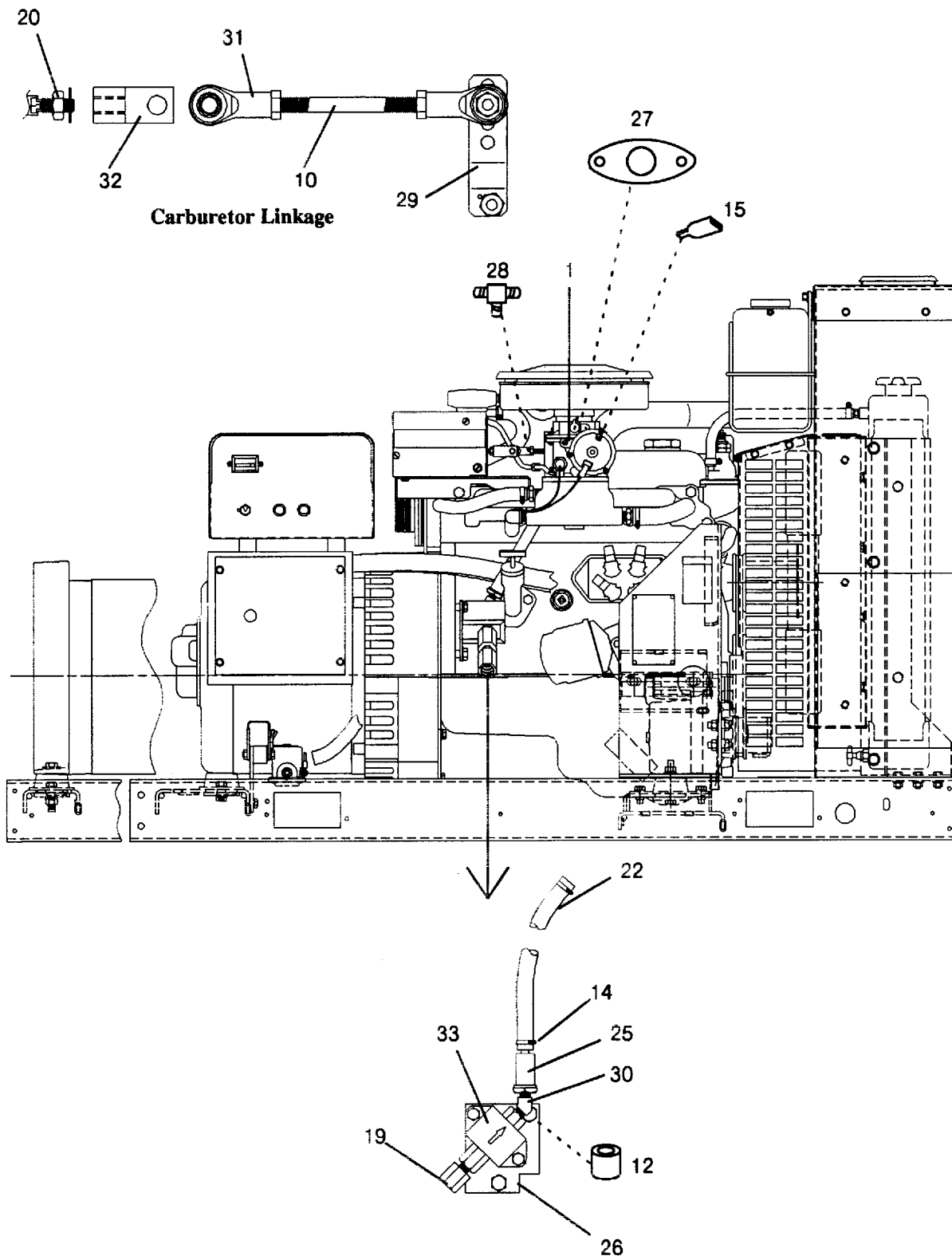
Series 1104 & 1105

Group 101 Air Intake

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Air Cleaner Assy. (includes item 2) 3,4	A-254767				
2	2	Element, air cleaner 3,4	254772				
3	2	Clamp, hose 1 in. 3,4	X-426-10				
4	1	Hose, oil 5/8 x 11 3,4	X-577-6				
5	1	Gasket, intake manifold 3,4	246067				
6	1	Manifold, intake (gasoline only) 3,4	249915				
NOTE: See Group 10 for gas intake manifold.							

Series 1104 & 1105

Group 103 Fuel System - Variation 5 Only



Series 1104 & 1105

Group 103 Fuel System

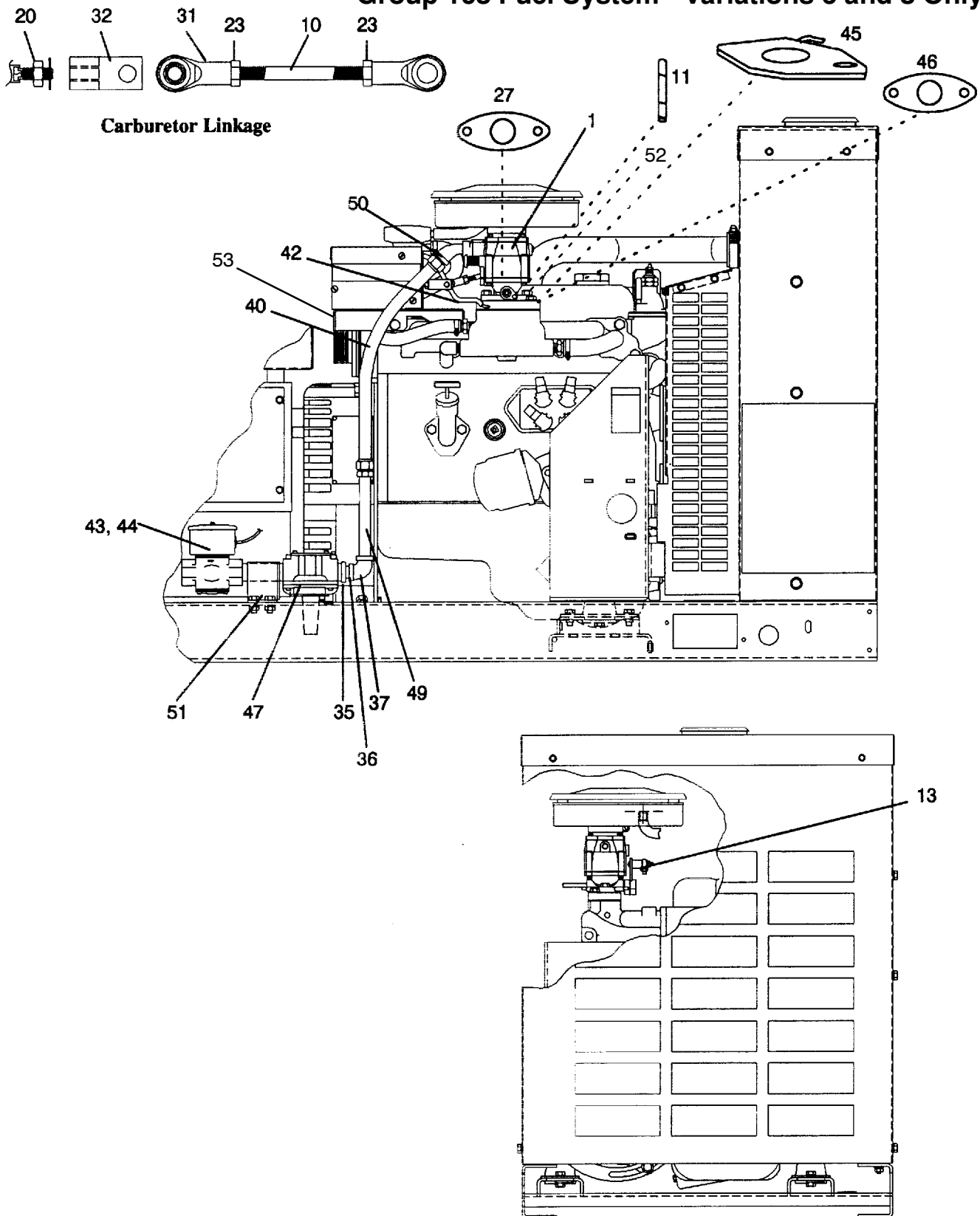
Item Qty.	Description Variation(s)	Part No.	Item Qty.	Description Variation(s)	Part No.
1 1	Carburetor Assembly 5	A-249914	16 2	Screw, HC 1/4-20 x 1/2 5	X-465-6 #
1 1	Carburetor Assembly 6,8	A-226678 226678	17 1	Screw, RHM 10-32 x 3/8 5	X-50-2 #
1 1	Kit, carburetor repair (for A-249914 carburetor) 5	229370	18 2	Screw, RHM 10-32 x 1 5	X-50-56 #
	(Includes the following)		1	Screw, RHM 10-32 x 1 6	X-50-56 #
1 1	Gasket, main plug	X	19 1	Adapter, pipe 1/4 x 1/8 5	X-509-1
1 1	Retainer, main needle	X	20 1	Nut, hex M-0637050 5,6	X-6053-1 #
1 1	Spring, main needle	X	21 2	Screw, HC 3/8-16 x 2-1/4 5	X-6238-17 #
1 1	Needle, assembly, main	X	22 1	Hose, 5/16 x 31/32 x 12 5	X-6251-1
1 1	Jet, main	X	23 3	Nut, hex 10-32 5	X-70-3 #
1 1	Gasket, air horn	X	2	Nut, hex 10-32 6	X-70-3 #
1 1	Solenoid, shut down	229377	24 1	Plug, pipe 5	X-75-51 #
1 1	Gasket, carburetor	249931	25 1	Filter, fuel 5	249433
2 2	Nut, elastic 10-32 5,6,8	X-101-12 #	26 1	Bracket, fuel pump 5	249902
3 2	Screw, HC 5/16-18 x 3 5	X-125-28 #	27 1	Gasket, carburetor 5,6	249931
4 1	Washer, split lock #10 5	X-19-1 #	28 1	Tee, hose 5	249979
5 2	Washer, split lock 1/4 5	X-20-1 #	29 1	Throttle Lever Assembly 5	254979
6 1	Washer, int. tooth lock 1/4 5,6,8	X-22-11 #	30 1	Elbow, 45 degree 5	267428
7 4	Washer, plain 1/2 x 7/32 x 18 Ga. 5	X-25-36 #	31 2	Link, ball 5,6,8	272456
	3 Washer, plain 1/2 x 7/32 x 18 Ga. 6,8	X-25-36 #	32 1	Yoke 5,6,8	273751
8 2	Washer, plain 17/64 x 9/16 x 1/16 5,6,8	X-25-72 #	33 1	Pump, fuel 5	278490
9 2	Washer, plain 11/32 x 3/4 x 16 Ga. 5,6,8	X-25-85 #	34 2	Screw, HC 5/16-18 x 1 6	X-125-5 #
10 1	Stud 5,6	X-352-75			
	1 Stud, 10-32 x 2-1/2 8	X-352-79			
11 2	Stud, adapter/manifold 6,8	X-352-37			
12 2	Spacer, 13/32 x 5/8 x 19/16 5	X-400-75			
13 1	Spacer, 7/32 x 1/2 x 41/64 6,8	X-400-178			
14 2	Clamp, hose 5	X-426-18			
15 1	Terminal, choke 5	X-431-38			

#Common Hardware, Procure Locally

X Not Sold Separately

Series 1104 & 1105

Group 103 Fuel System - Variations 6 and 8 Only



#Common Hardware, Procure Locally

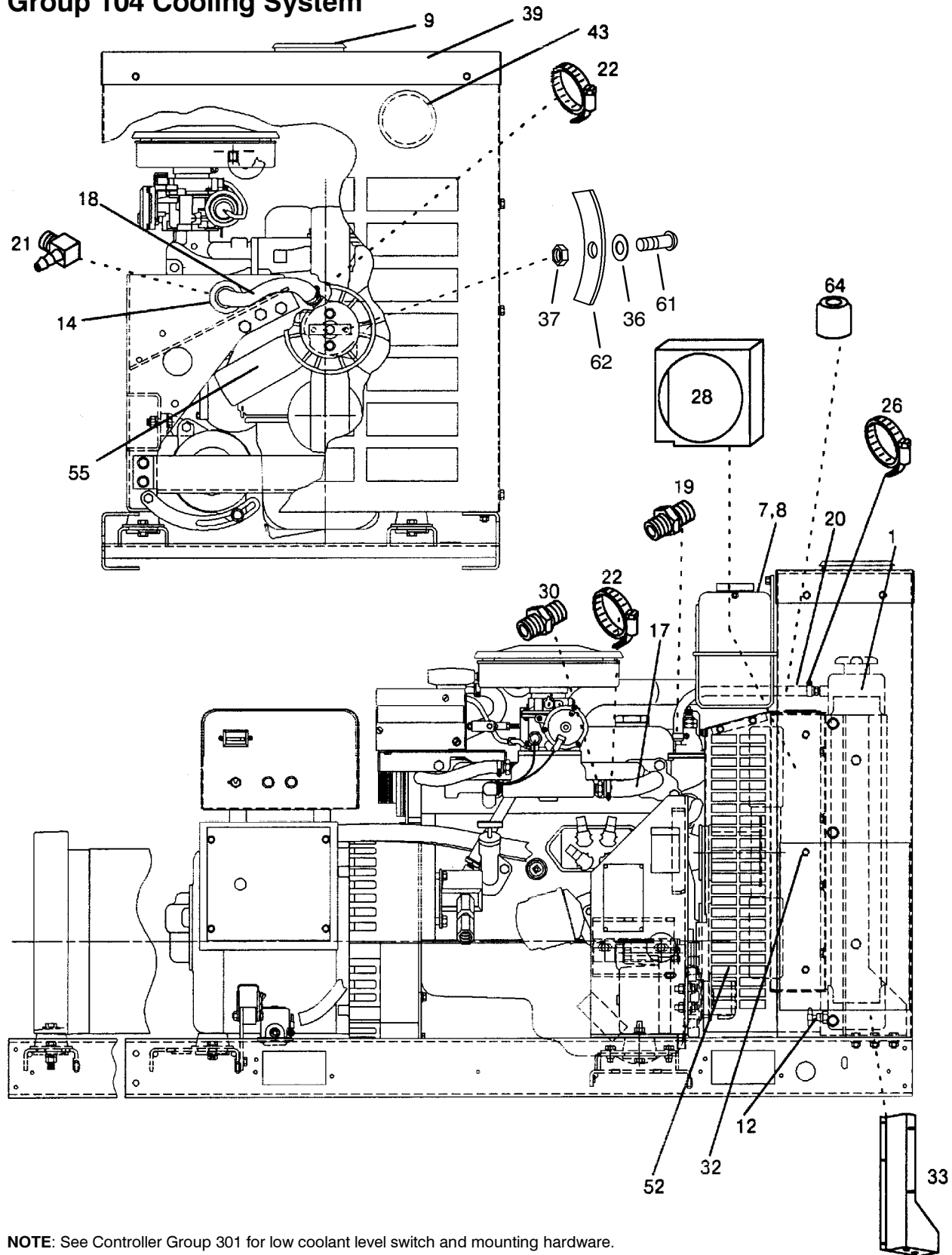
Series 1104 & 1105

Group 103 Fuel System - continued

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
35	1	Bushing, reducer 3/8 x 3/4 6	X-202-23	45	1	Adapter Sub-Assembly 6	254895
36	1	Nipple, pipe 3/8 x 1 (early) 6	X-204-9		1	Adapter, carburetor 8	256947
37	1	Elbow 3/8 (early) 6	X-215-9		1	Gasket, manifold 8	256948
	1	Elbow, 5/8-18 x 3/8 8	X-447-9	46	1	Gasket, exhaust flange 6	258024
38	2	Washer, split lock 5/16 6	X-21-1 #	47	1	Regulator, pressure 6,8	291259
39	1	Screw, RHM 10-32 x 1-1/2 6	X-50-57 #	48	2	Screw, hex head 5/16-18 x 3/4 6	X-125-3 #
40	1	Line, flex fuel 3/8 x 15-3/16 (early) 6	X-504-12	49	1	Pipe, black iron 3/8 NPTF x 5-1/2 (early) 6	X-204-16 #
	1	Line, flex fuel 6,8	225160	50	1	Elbow, street 3/8 6,8	X-274-6 #
41	2	Nut, hex 5/16-18 6	X-82-2 #	51	1	Bracket, fuel valve 6,8	254851
42	1	Hose, vacuum 6,8	246053	52	2	Screw, socket head 8	286957
43	1	Gas Valve Assembly (includes terminals and item 44) 6,8	254859	53	1	Bracket, governor 8	256845
44	1	Valve, gas 6	244621				

Series 1104 & 1105

Group 104 Cooling System



Series 1104 & 1105

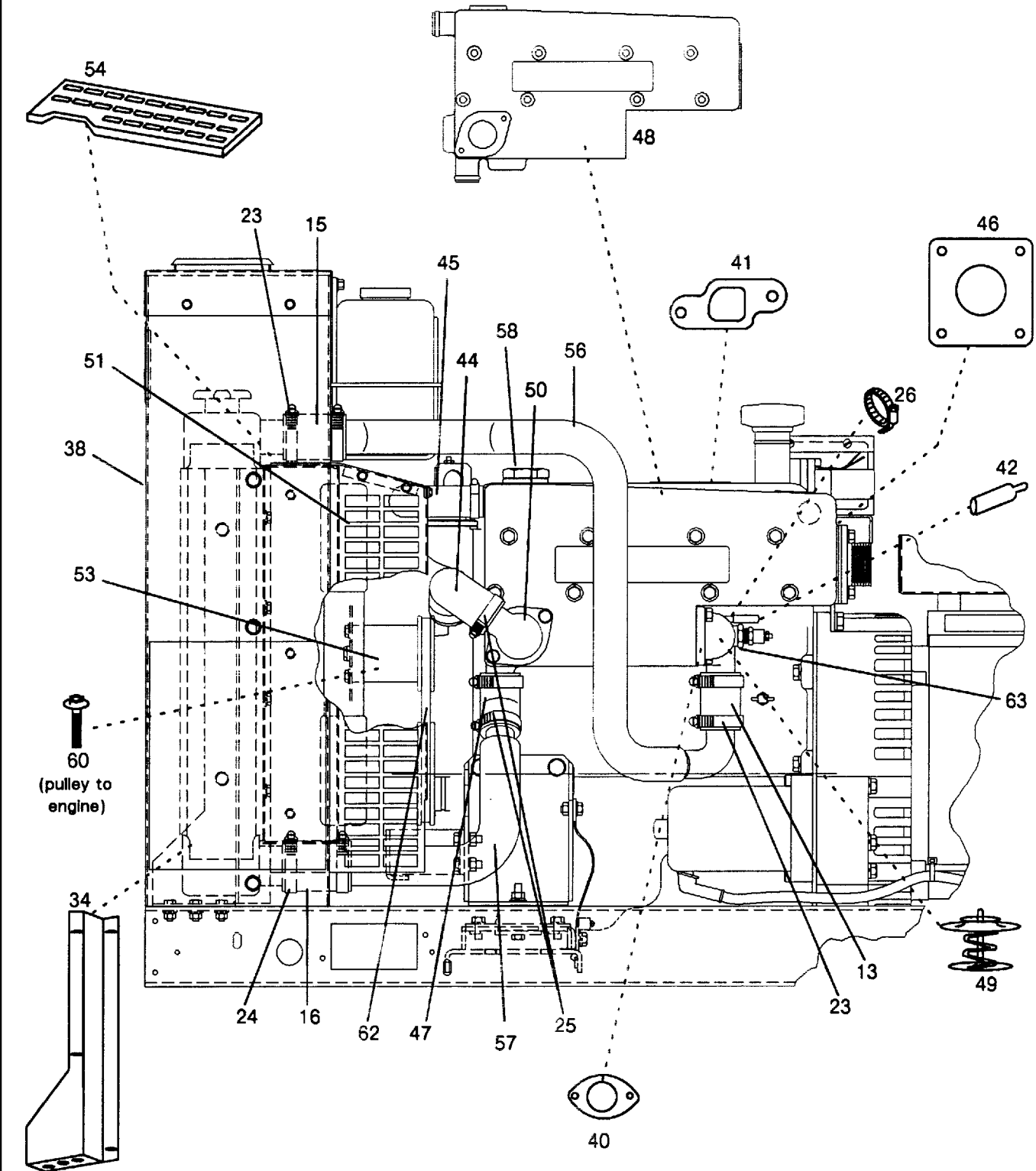
Group 104 Cooling System

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Radiator Assembly 8,10,13	A-254774	18	1	Hose, 5/8 ID 8,10,13	X-312-5
	1	Cap, radiator 8,10,13	258126	19	1	Connector, hose 8,10,13	X-380-5
2	10	Screw, HC 5/16-18 x 5/8 8,10,13	X-125-23 #	20	1	Line, coolant 8,10,13	X-386-95
3	8	Screw, HC 5/16-18 x 1 8,10,13	X-125-5 #	21	1	Connector, hose 5/8 x 3/8 IP 8,10,13	X-391-2
4	14	Washer, split lock 1/4 8,10,13	X-20-1 #	22	4	Clamp, hose 1/2 - 1 - 13/32 8,10,13	X-426-3
5	18	Washer, split lock 5/16 8,10,13	X-21-1 #	23	4	Clamp, hose 1-3/8 x 2 8,10,13	X-426-4
6	6	Screw, HC 1/4 - 20 x 3/4 8,10,13	X-465-16 #	24	2	Clamp, hose 1-9/16 x 2-1/2 8,10,13	X-426-6
7	2	Screw, drill hex 1/4 - 14 x 3/4 (secures hose to bottle) 8	X-794-1	25	6	Clamp, hose 1-15/16 x 1-3/16 8,10,13	X-426-8
8	1	Bottle, overflow 8	249396	26	4	Clamp, hose 5/8 x 1/4 8,10,13	X-426-9
	1	Bottle, overflow 10,13	256971	27	6	Screw, HC 1/4-20 x 3/8 8,10,13	X-465-17 #
	1	Bracket, water bottle 10,13	256972	28	1	Fan, shroud 8	254702
9	1	Plug 8,10,13	253268		1	Fan, shroud 10,13	256925
10	14	Washer, plain 9/32 x 5/8 x 1/16 8	X-25-40 #	29	2	Screw, HC 1/4-20 x 1-1/4 8,10	X-465-8 #
11	18	Washer, plain 11/32 x 3/4 x 1/16 8	X-25-85 #	30	2	Connector, adapter 8,10,13	X-582-2
	22	Washer, plain 11/32 x 3/4 x 1/16 10,13	X-25-85 #	31	8	Screw, HC M8 x 1.25-20 mm 8,10,13	X-6050-13 #
12	1	Valve, drain 1/4 8,10,13	X-256-3	32	22	Screw, phil. hex crim. 8	X-6216-1
13	1	Hose, 1-1/4 x 2-1/2 8,10,13	X-272-2		7	Screw, phil. hex crim. 10,13	X-6216-1
14	1	Grommet 1-5/8 8,10,13	X-284-2	33	1	Support, radiator (R) 8,10,13	254705
15	1	Hose, 1-1/2 x 4 8,10,13	X-304-2	34	1	Support, radiator (L) 8,10,13	254706
16	1	Hose, 1-3/4 x 4 8	X-311-7	35	2	Plug, pipe 8,10,13	X-75-50 #
	1	Hose 10,13	226637	36	2	Washer, hardened 8,10,13	X-801-2
17	1	Hose, 5/8 x 6 8,10,13	X-312-44				

#Common Hardware, Procure Locally

Series 1104 & 1105

Group 104 Cooling System - continued



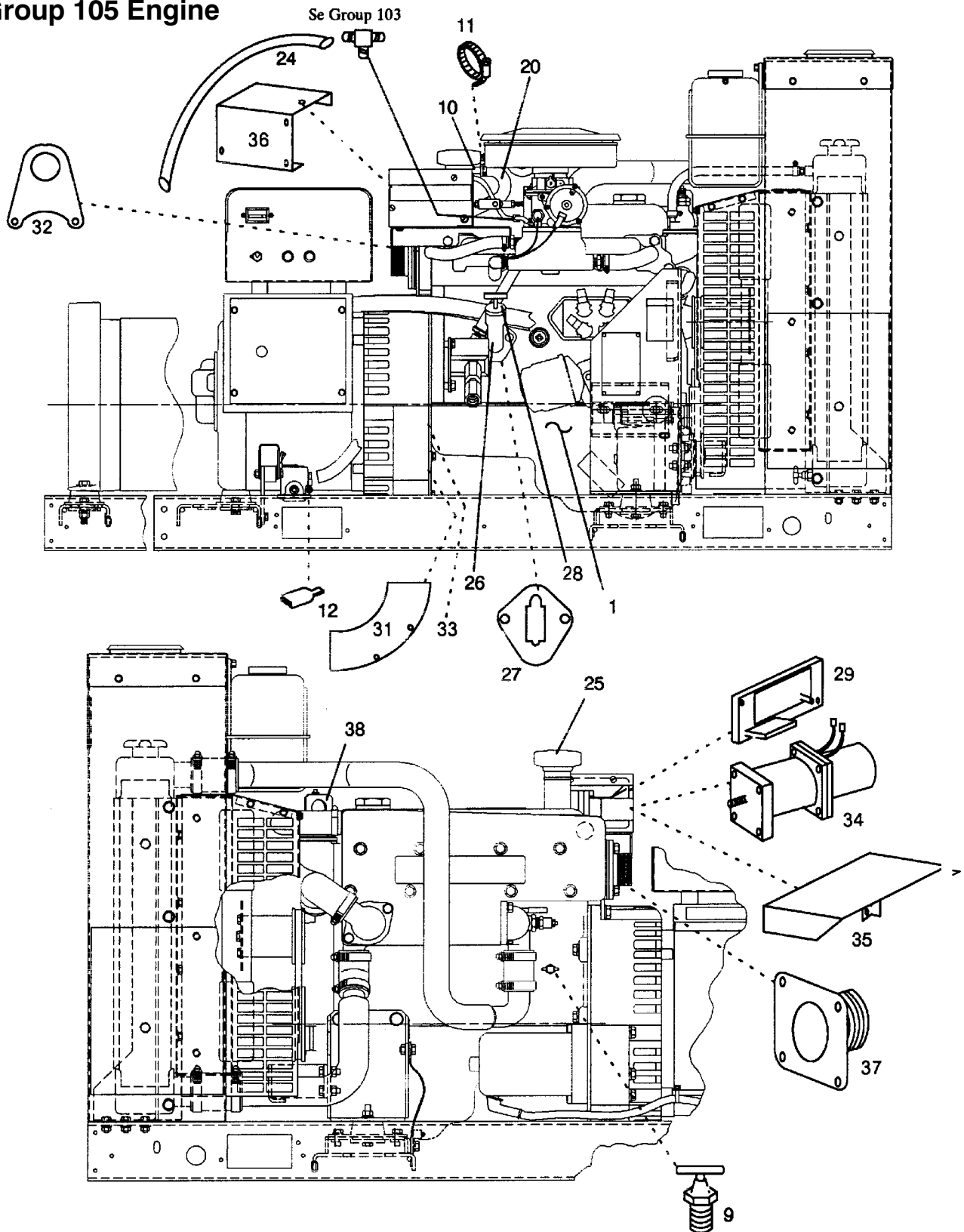
Series 1104 & 1105

Group 104 Cooling System - continued

Item Qty.	Description Variation(s)	Part No.	Item Qty.	Description Variation(s)	Part No.
37 6	Nut, hex 1/4-20 8,10,13	X-81-1 #	54 1	Guard, belt (top) 8	254735
38 1	Shroud, radiator 8,10	256830	55 1	Fan, pusher 8	254736
1	Shroud, radiator 13	226522	1	Fan 10,13	226651
39 1	Cover, radiator 8,10,13	254738	56 1	Tube, radiator inlet 8,10,13	256998
40 2	Gasket, water outlet 8,10,13	229963	57 1	Tube, radiator outlet 8,10,13	226567
41 4	Gasket, exhaust manifold 8,10,13	246060	58 1	Plug, exhaust manifold 8	254761
42 1	Cap, protector 8,10,13	246062	1	Gasket 10,13	254795
43 1	Plug 8,10,13	254949	59 1	Strap 8,10,13	254764
44 1	Hose, molded 8,10,13	249814	60 3	Screw, socket hex cap (pulley to engine) 8,10,13	254765
45 1	Hose, molded 8, 10, 13	249823	61 1	Screw, socket hex cap (fan to pulley) 8,10,13	254766
46 1	Gasket, exhaust 8,10,13	249905	62 1	Belt, V 8,10,13	254782
47 1	Hose, molded 8,10,13	249906	63 1	Housing, thermostat 8,10,13	*
48 1	Manifold, exhaust 8,10,13	256979	64 1	Orifice, bleed (in hose) 8,10,13	254922
49 1	Thermostat (open @ 195 degrees F) 8,10,13	249930	65 1	Spacer, fan 8	254875
50 1	Cover, thermostat 8,10,13	249942	1	Spacer, fan 13	260088
51 1	Guard, belt (LH) 8	254704	66 1	Guard, fan 10,13	256946
1	Guard, belt (LH) 10,13	226261	*A serial number breaker was taken to determine which cover is needed for your 10/12 kW Ford-powered units. Use thermostat cover 254810 on units with generator serial number before 334671. Use thermostat cover 229064 on units with a serial number after 334670.		
52 1	Guard, belt (RH) 8	254778			
1	Guard, belt (RH) 10,13	226260			
53 1	Pulley, water pump 8,10	254874			
1	Pulley, water pump 13	260091			

Series 1104 & 1105

Group 105 Engine



#Common Hardware, Procure Locally

Series 1104 & 1105

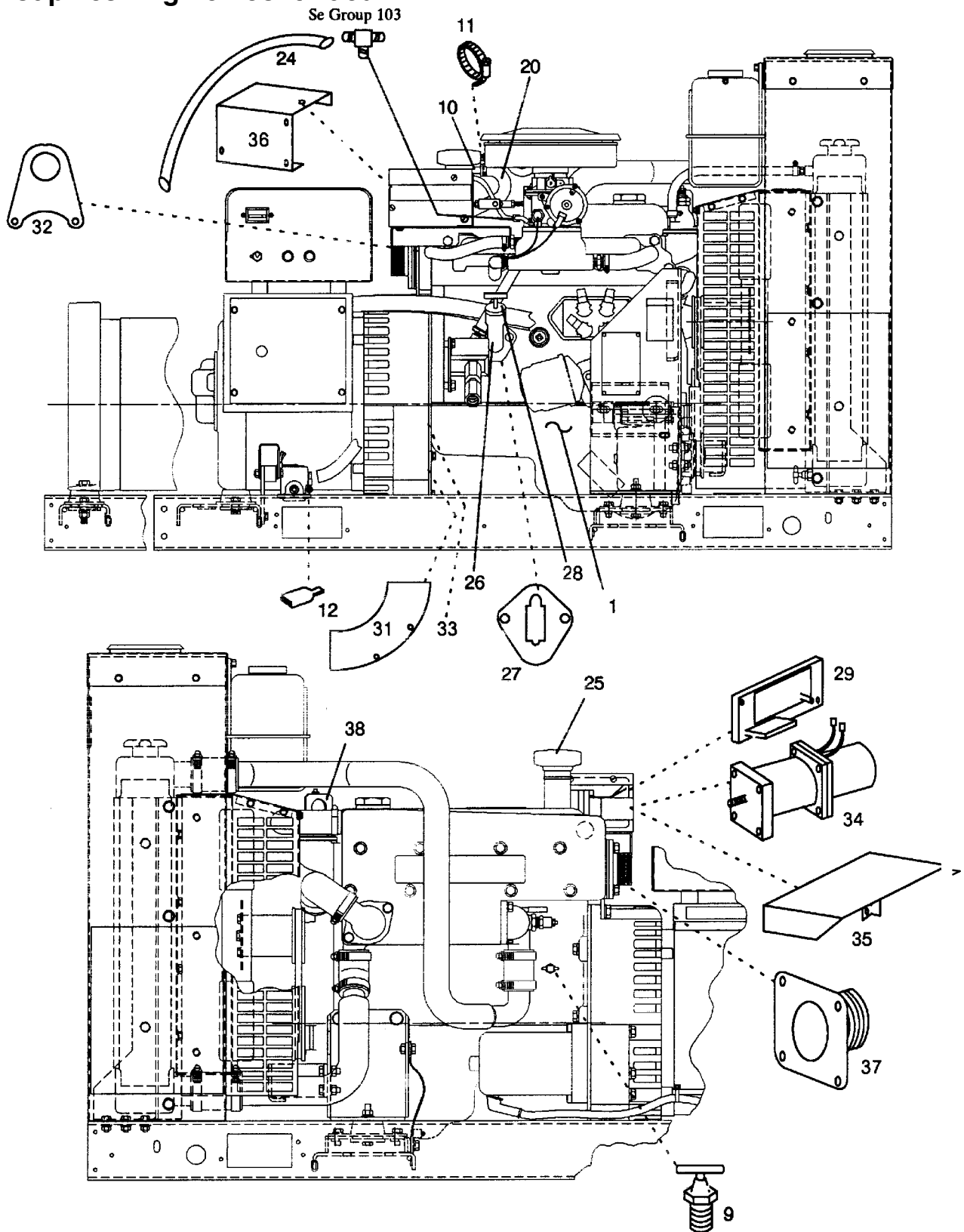
Group 105 Engine

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Engine Assembly (Ford VSG-411) 7	A-246239	18	2	Screw, hex head cap M8 x 1.25 (20 mm) 7,8,15,18,22	X-6050-3
	1	Engine Assembly (Ford VSG-413) 8	A-246240	19	2	Screw, hex cap M10 x 1.5 (40 mm) 7,8,15,18,22	X-6051-10 #
	1	Engine Assembly (Ford VSG-413) 15	A-260090	20	1	Hose, rubber 7,8	X-651-21
	1	Engine Assembly (Ford VSG-411) 18	A-260089		1	Hose, rubber 15,18,22	226365
	1	Engine Assembly (Ford VSG-411) 22	B-229525	21	2	Nut, hex 10-24 7,8,15,18,22	X-70-2 #
2	7	Washer, split lock #10 7,8,15,18,22	X-19-1 #	22	2	Nut, hex 10-24 7,8,15,18,22	X-70-2 #
3	8	Washer, split lock 1/4 7	X-20-1 #	23	4	Nut, hex 1/4-20 7,8,15,18,22	X-81-1 #
4	2	Washer, split lock 5/16 7,8,15,18,22	X-21-1 #	24	1	Hose, vacuum 7,8,15,18,22	246053
5	2	Washer, split lock 7/16 7,8,15,18,22	X-23-1 #	25	1	Oil Fill Cap Assembly 7,8,15,18,22	246054
6	1	Washer, plain 1/2 x 7/32 x 18 Ga. 7,8,15,18,22	X-25-36 #	26	1	Tube, oil fill 7,8,15,18,22	246057
7	2	Washer, plain 9/32 x 5/8 x 1/16 7,8,15,18,22	X-25-40 #	27	1	Gasket 7,8,15,18,22	246058
8	1	Washer, plain 11/32 x 3/4 x 16 Ga. 7,8,15,18,22	X-25-85 #	28	1	Cap, oil fill tube 7,8,15,18,22	246063
9	1	Valve, drain 1/8 7,8,15,18,22	X-256-2	29	1	Ignition Control Assembly 7,8,15,18,22	246065
10	1	Connector, hose 7,8,15,18,22	X-380-3	30	1	Harness, wire (engine ignition system - not shown) 7,8	246068
11	2	Clamp, hose 5/8 x 1/4 7,8,15,18,22	X-426-9		1	Harness, wire (engine ignition system- not shown) 15,18,22	226884
12	1	Terminal 7,8,15,18,22	X-431-28	31	1	Guard, adapter 7,8,15,18,22	249384
13	4	Screw, HC 1/4-20 x 3/4 7,8,15,18,22	X-465-16 #	32	1	Bracket, lifting 7,8,15,18,22	249445
14	5	Screw, RHM 10-32 x 1/2 7,8,15,18,22	X-50-1 #	33	1	Plate, rear engine 7,8,15,18,22	249889
15	2	Screw, RHM 10-24 x 3/4 7,8,15,18,22	X-50-3 #	34	1	Actuator, linear 7,8,15,18,22	249923
16	4	Screw, hex socket head 1/4-20 x 3/4 7,8,15,18,22	X-55-13 #				
17	1	Screw, hex cap M8 x 1.25 (30 mm) 7,8,15,18,22	X-6050-1 #				

#Common Hardware, Procure Locally

Series 1104 & 1105

Group 105 Engine - continued



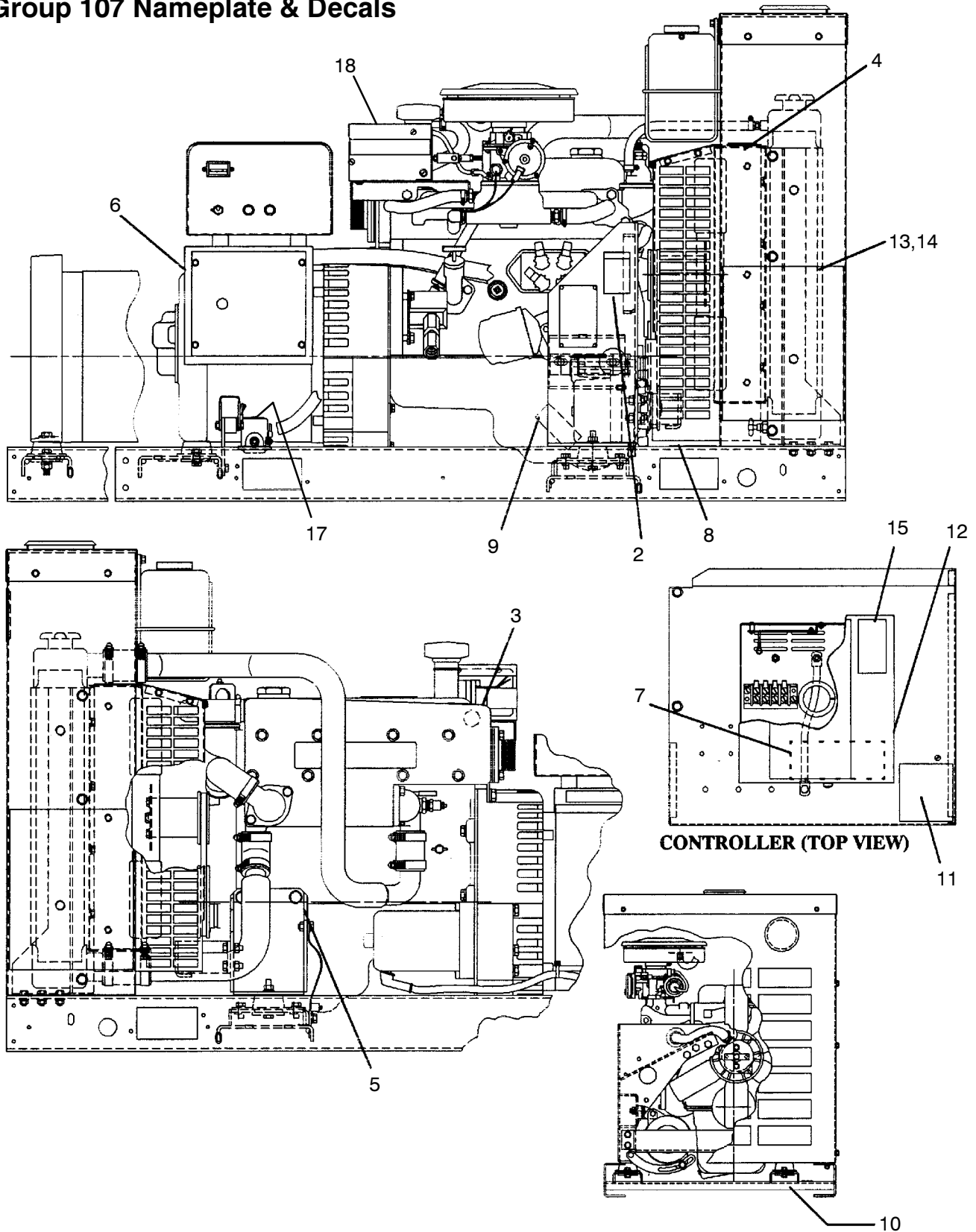
Series 1104 & 1105

Group 105 Engine - continued

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
35	1	Bracket, governor mtg. (see also group 103) 7,8,15,18,22	249949	41	2	Clamp, hose 7,8,15,18	X-426-9
36	1	Bracket, controller 7,8,15,18,22	249990	42	1	Plug, drain 7,8,15,18	241062
37	1	Flange, exhaust outlet 7,8,15,18,22	254692	43	1	Washer, nylon 7,8,15,18	276552
38	1	Bracket, lifting eye 7,8,15,18,22	254809	44	1	Adapter, hose 7,8,15,18	254720
39	1	Valve, oil drain 7,8,15,18	344826	45	1	Nut, hex. 7,8,15,18	X-80-1
40	1	Hose, rubber 3/8 x 18 7,8,15,18	X-651-3				

Series 1104 & 1105

Group 107 Nameplate & Decals



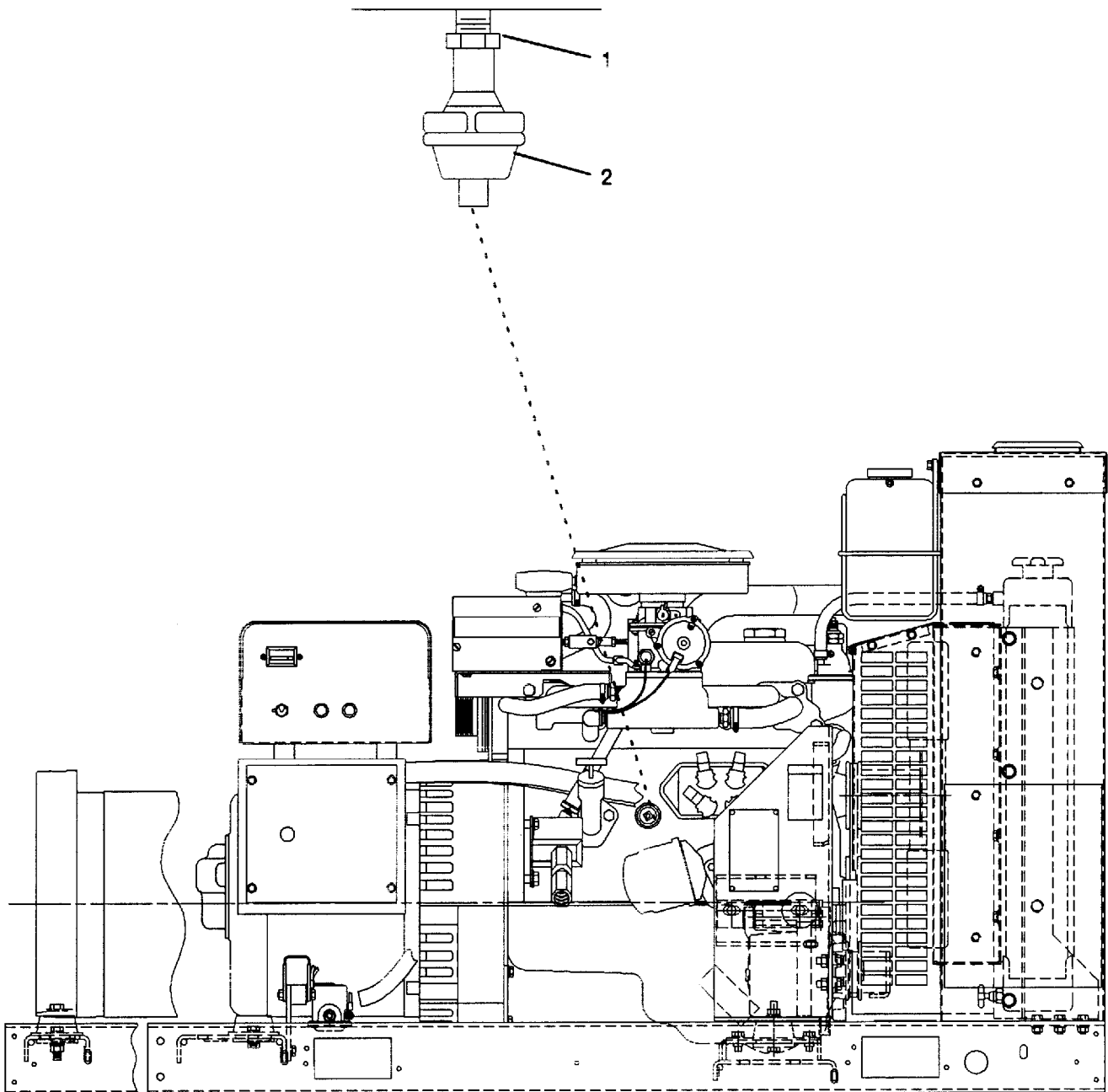
Series 1104 & 1105

Group 107 Nameplate & Decals

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	4	Screw, drive 2 x 3/16 3, 4, 5, 6,15,16	X-781-5 #	11	1	Decal, regulator adj. (inside controller) 5, 6,15,16	254831
2	1	Decal, rotating parts warning 3, 4, 5, 6,15,16	249808	12	1	Decal, backfeed (inside controller) 5, 6,15,16	259365
3	1	Decal, hot engine warning 3, 4, 5, 6,15,16	249809	13	2	Decal, "10" 3, 5,15	X-6247-15
4	1	Decal, hot coolant warning 3, 4, 5, 6,15,16	249810	14	2	Decal, "12" 4, 6,16	X-6247-16
5	1	Decal, neg. battery conn. 4, 5, 6,15,16	241655	15	1	Decal, carbon monoxide 3, 4, 5, 6,15,16	239796
6	1	Decal, moving rotor 3, 4, 5, 6,15,16	257438	16	1	Decal, 1-800 number (not shown) 3,4,5,6,15,16	224233
7	1	Decal, backfeed voltage 3, 4	258815	17	1	Marker, adhesive 3,4,5,6,15,16	238162
8	1	Decal, water drain 3, 4, 5, 6,15,16	280561	18	1	Decal, stand-by service 15,16	255882
9	1	Decal, oil drain 3, 4, 5, 6,15,16	280562				
10	1	Decal, equipment ground 3, 4, 5, 6,15,16	290435				

Series 1104 & 1105

Group 108 Oil Pressure Gauge



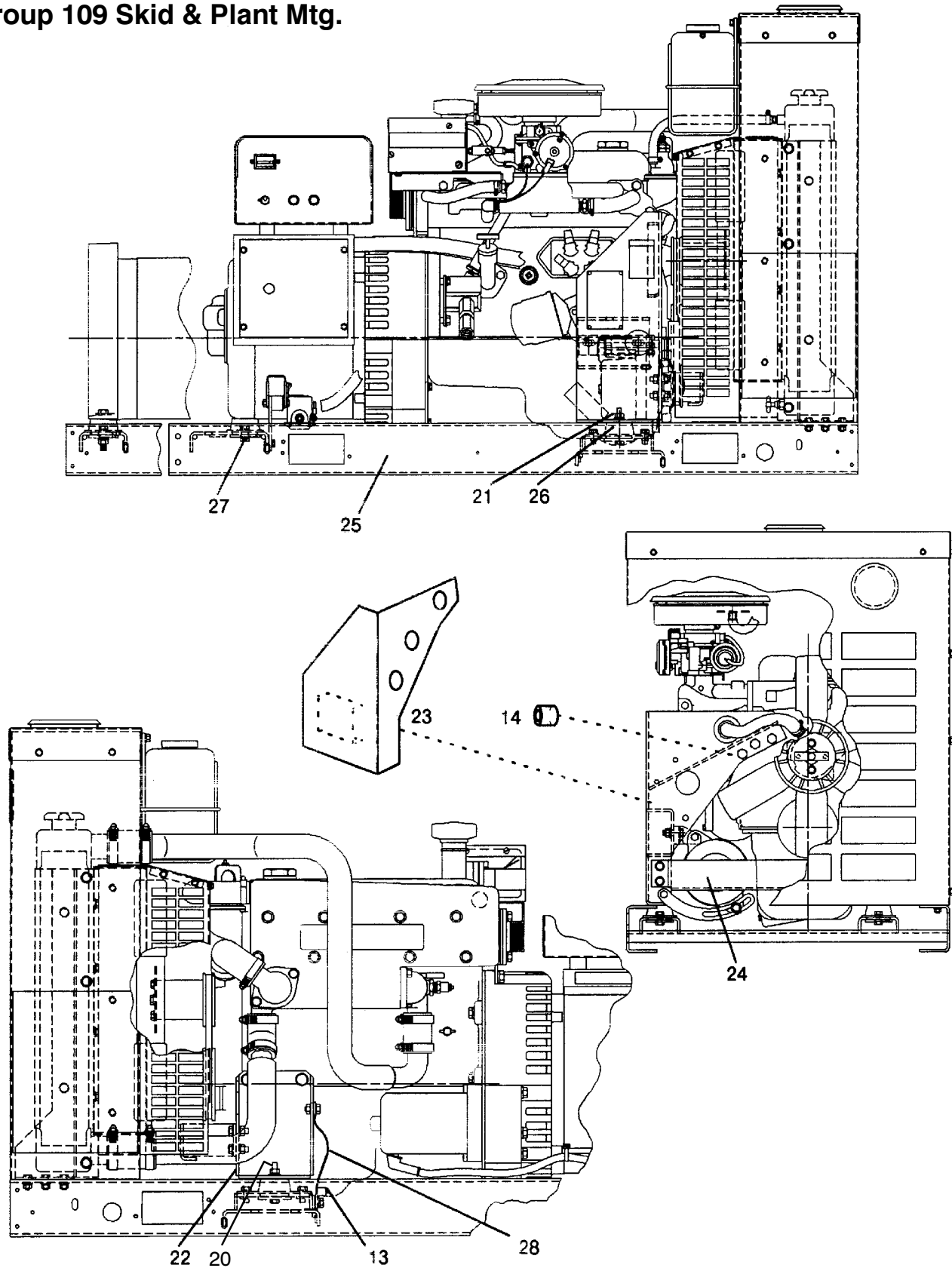
Series 1104 & 1105

Group 108 Oil Pressure Gauge

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Bushing, reducer 1/4 NPT 2	A-106				
2	1	Switch, oil pressure 2	328309				

Series 1104 & 1105

Group 109 Skid & Plant Mtg.



Series 1104 & 1105

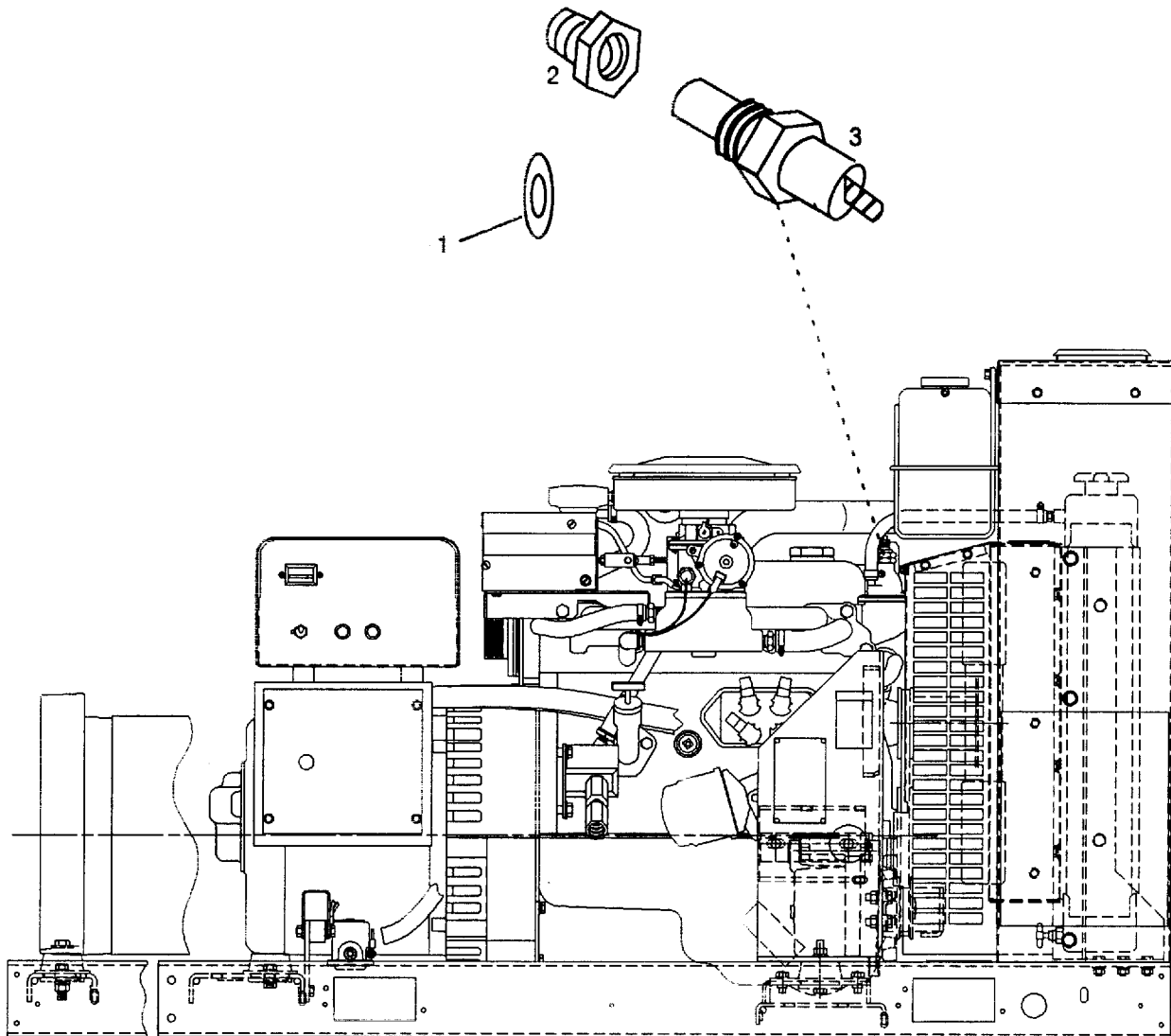
Group 109 Skid & Plant Mtg.

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	2	Screw, HC 5/16-18 x 2 5	X-125-26 #	2		Nut, elastic stop 5/16-18 9,10	X-101-16 #
2	9	Screw, hex head 5/16-18 x 3/4 5, 8,9	X-125-3 #	21	2	Screw, cylinder head 5, 8	230578 #
3	4	Screw, HC 5/16 - 18 x 1 5, 8	X-125-5 #	2		Bolt 5/16-18 9,10	
4	17	Washer, split lock 5/16 5, 8,9,10	X-21-1 #	22	1	Support, engine 5, 8,9,10	249991
5	1	Washer, int.ext. tooth 1/4 5, 8,9,10	X-22-12 #	23	1	Support, right engine 5, 8,9,10	254714
6	2	Washer, int./ext. tooth 3/8 5, 8,9,10	X-22-14 #	24	1	Stiffener, engine support 5 8,9,10	254775
7	1	Washer, int./ext. tooth 5/16 5, 8,9,10	X-22-16 #	25	1	Skid 5	254893
8	5	Washer, split lock 7/16 5, 8,9,10	X-23-1 #	1		Skid 8	254693
9	2	Washer, plain 5/16 x 3/4 x 1/16 5, 8,9,10	X-25-20 #	1		Skid 9	256831
10	1	Washer, plain 17/64 x 1/16 5, 8,9,10	X-25-53 #	1		Skid 10	256832
11	4	Washer, plain 11/32 x 3/4 x 1/16 5, 8,9,10	X-25-85 #	26	2	Mount, vibro (brown) 5,8	254950
12	4	Washer, plain 13/32 x 2 x 3/16 5, 8,9,10	X-25-96 #	1		Mount, vibro (left) 9,10	225125
13	1	Terminal, grounding 5, 8,9,10	X-377-11	1		Mount, vibro (right) 9,10	225127
14	3	Spacer, 13/32 x 3/4 x 13/16 5, 8,9,10	X-400-37	27	2	Mount, vibro (green) 5,8	278322
15	1	Screw, HC 1/4-20 x 3/4 5, 8	X-465-16 #	1		Mount, vibro 9,10	225124
16	1	Screw, HC M10-1.5 x 40 mm 5, 8,9,10	X-6051-10 #	28	1	Strap, ground 5, 8,9,10	290418
17	2	Screw, HC M10-1.5 x 25 mm 5, 8,9,10	X-6051-3 #	29	2	Washer, split lock 3/8 8,10	X-22-1 #
18	2	Screw, hex cap M10-1.5 x 50 mm 5, 8	X-6051-9 #	30	2	Washer, plain 7/16 x 1 x 5/64 8,10	X-25-1 #
19	1	Nut, hex 1/4-20 5, 8	X-81-1 #	31	2	Screw, HC 3/8 - 16 x 2-1/2 8	X-6238-7 #
20	6	Nut, hex 5/16-18 5, 8	X-82-2 #	32	2	Nut, hex 3/8 - 16 8	X-83-2 #

#Common Hardware, Procure Locally

Series 1104 & 1105

Group 110 Temperature Switch



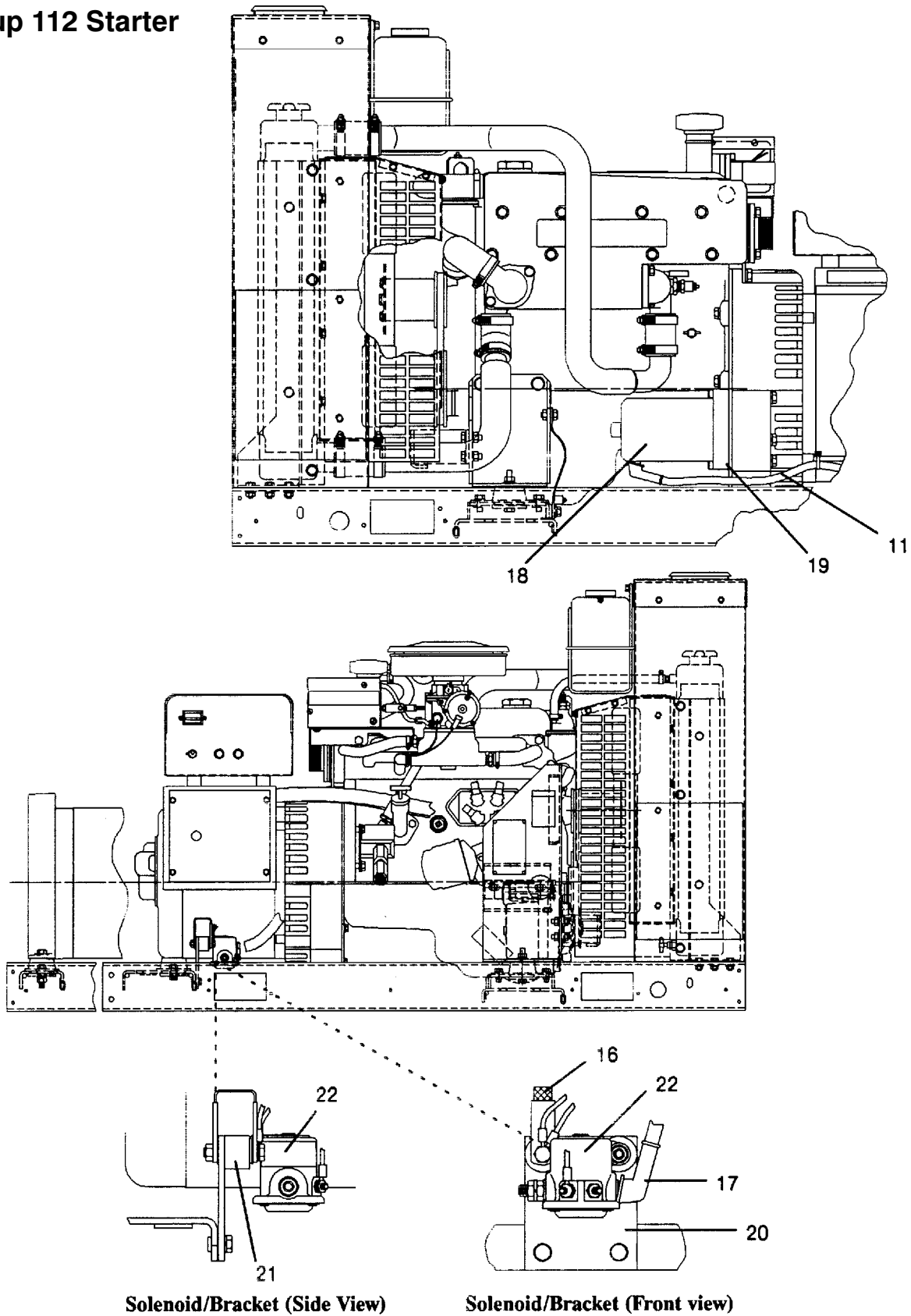
Series 1104 & 1105

Group 110 Temperature Switch

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	2	Washer, nylon 3	276552				
2	2	Adapter 3	249959				
3	1	Switch, high temperature 3	255241				

Series 1104 & 1105

Group 112 Starter



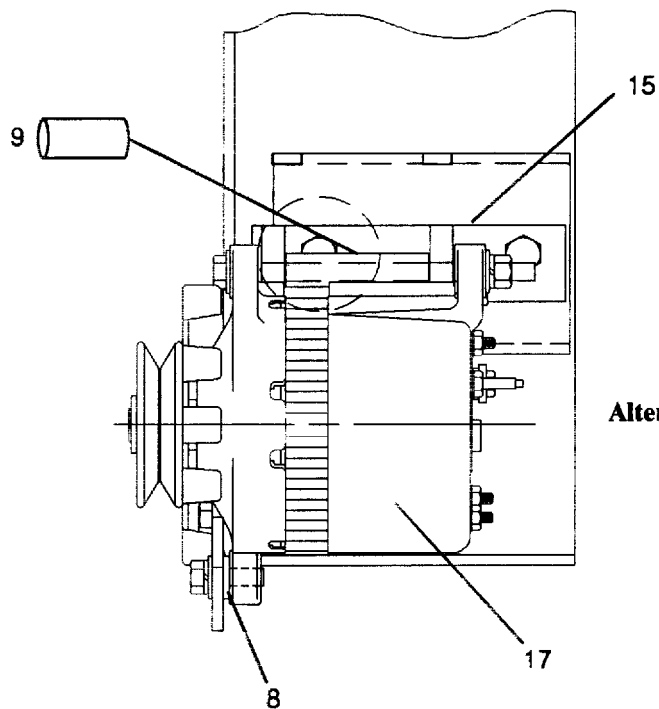
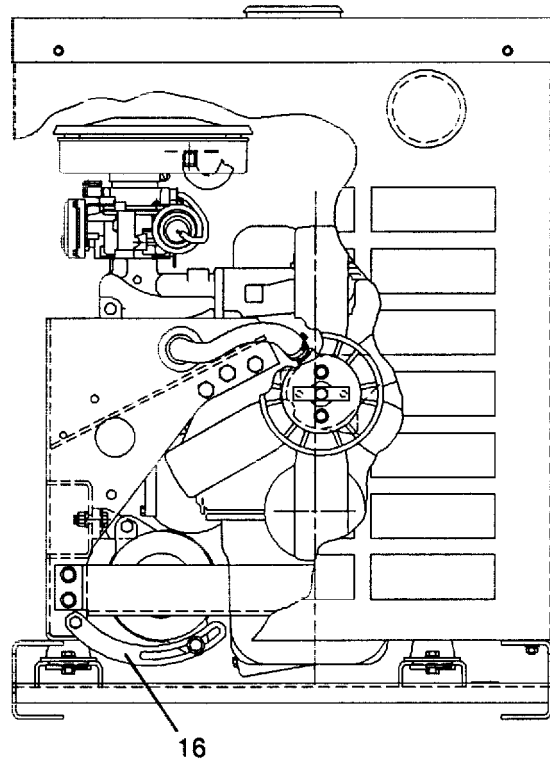
Series 1104 & 1105

Group 112 Starter

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Washer, split lock #10 3, 4	X-19-1 #	12	2	Screw, socket head 5/16-18 x 1 3, 4	X-55-27 #
2	4	Washer, split lock 1/4 3, 4	X-20-1 #	13	3	Screw, HC 3/8-16 x 3-1/4 3, 4	X-6238-19 #
3	3	Washer, split lock 3/8 3, 4	X-22-1 #	14	1	Nut, hex 10-32 3, 4	X-70-3 #
4	1	Washer, int. tooth lock 1/4 3, 4	X-22-11 #	15	2	Nut, hex 1/4-20 3, 4	X-81-1 #
5	4	Washer, int./ext. tooth lock 1/4 3, 4	X-22-12 #	16	1	Strap, ground 3, 4	223033
6	3	Washer, plain 13/32 x 13/16 x 1/16 3, 4	X-25-37 #	17	2	Boot 3, 4	238915
7	1	Washer, plain 9/32 x 5/8 x 1/16 3, 4	X-25-40 #	18	1	Starter 3, 4	246056
8	2	Screw, HC 1/4-20 x 3/4 3, 4	X-465-16 #	19	1	Spacer, starter 3, 4	249371
9	1	Screw, HC 1/4-20 x 5/8 3, 4	X-465-2 #	20	1	Bracket, solenoid 3, 4	254780
10	1	Screw, HC 1/4-20 x 1/2 3, 4	X-465-6 #	21	2	Bumper 3, 4	259632
11	1	Cable, battery (red) 3	X-545-77	22	1	Solenoid, starter 3, 4	291891
	1	Cable, battery (black) 4	X-545-83			Diodes (not shown)	256416

Series 1104 & 1105

Group 113 Alternator



Alternator (Side View)

Series 1104 & 1105

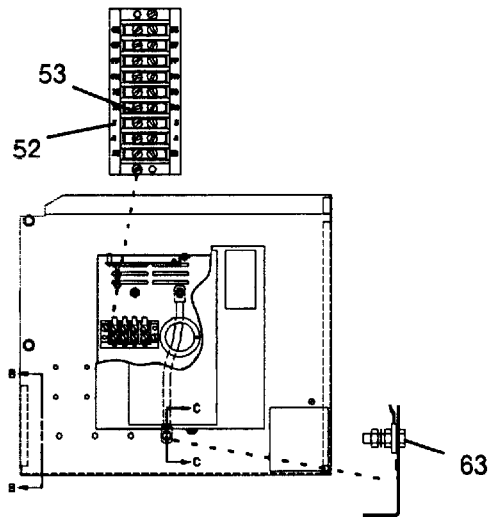
Group 113 Alternator

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Screw, hex cap 5/16-18 x 5 1,3	X-125-32 #	10	1	Screw, HC M8 x 1.25 x 25 mm 1,3	X-6050-4 #
2	1	Screw, HC 5/16-18 x 1 1,3	X-125-5 #	11	1	Nut, hex M5 x 0.8 1,3	X-6053-6 #
3	3	Washer, split lock 5/16 1,3	X-21-1 #	12	2	Screw, HC 3/8-16 x 1-1/4 1	X-6283-4 #
4	2	Washer, split lock 3/8 1,3	X-22-1 #	13	2	Nut, hex 5/16-18 1,3	X-82-2 #
5	1	Washer, int. tooth lock 1/4 1,3	X-22-1 #	14	2	Nut, hex 3/8-16 1,3	X-83-2 #
6	2	Washer, plain 7/16 x 1 x 5/64 1,3	X-25-1 #	15	1	Bracket, alternator 1	254783
7	3	Washer, plain 11/32 x 3/4 x 1/16 1,3	X-25-85 #		1	Bracket, alternator 3	256923
8	1	Spacer, 11/32 x 3/4 x 7/64 1,3	X-400-177	16	1	Arm, alternator adjust 2,3	254784
9	1	Spacer 1	X-400-180	17	1	Alternator, kit 2	256934
	1	Spacer 3	X-400-183		1	Alternator 3	256924

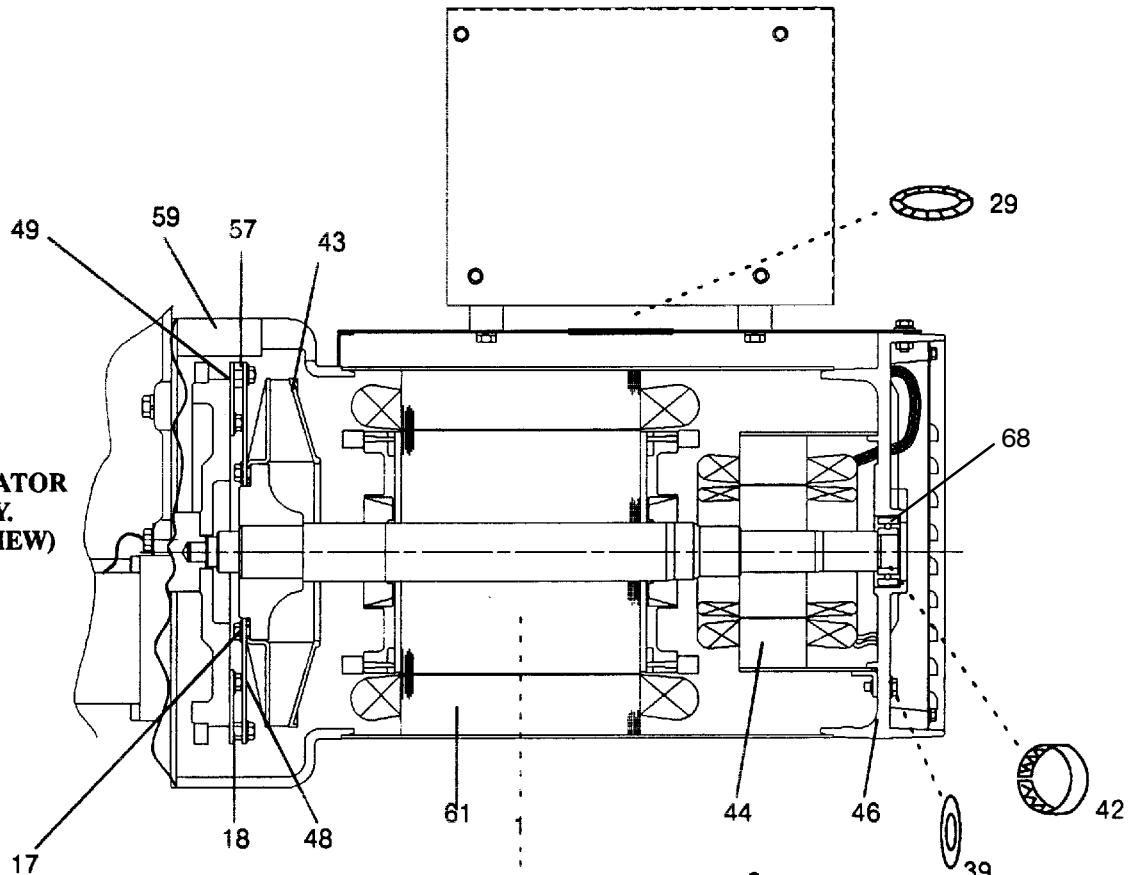
Series 1104 & 1105

Group 201 Generator & Mtg. Variations 8, 9, 16, 17 (Only)

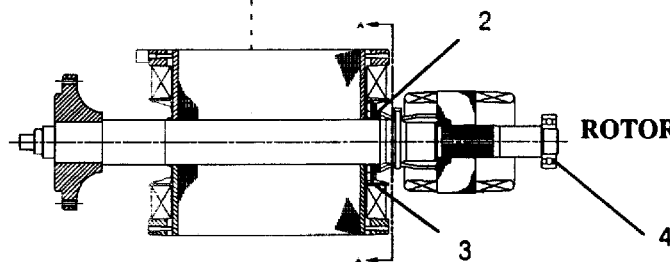
CONTROLLER (TOP VIEW)



ALTERNATOR
ASSY.
(SIDE VIEW)



ROTOR (SIDE VIEW)



Series 1104 & 1105

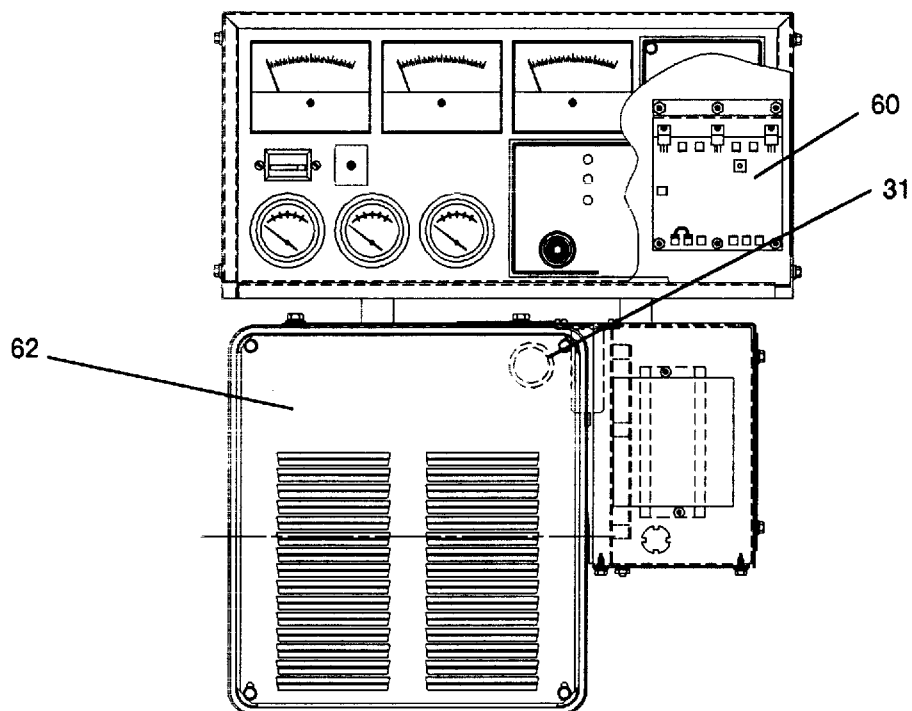
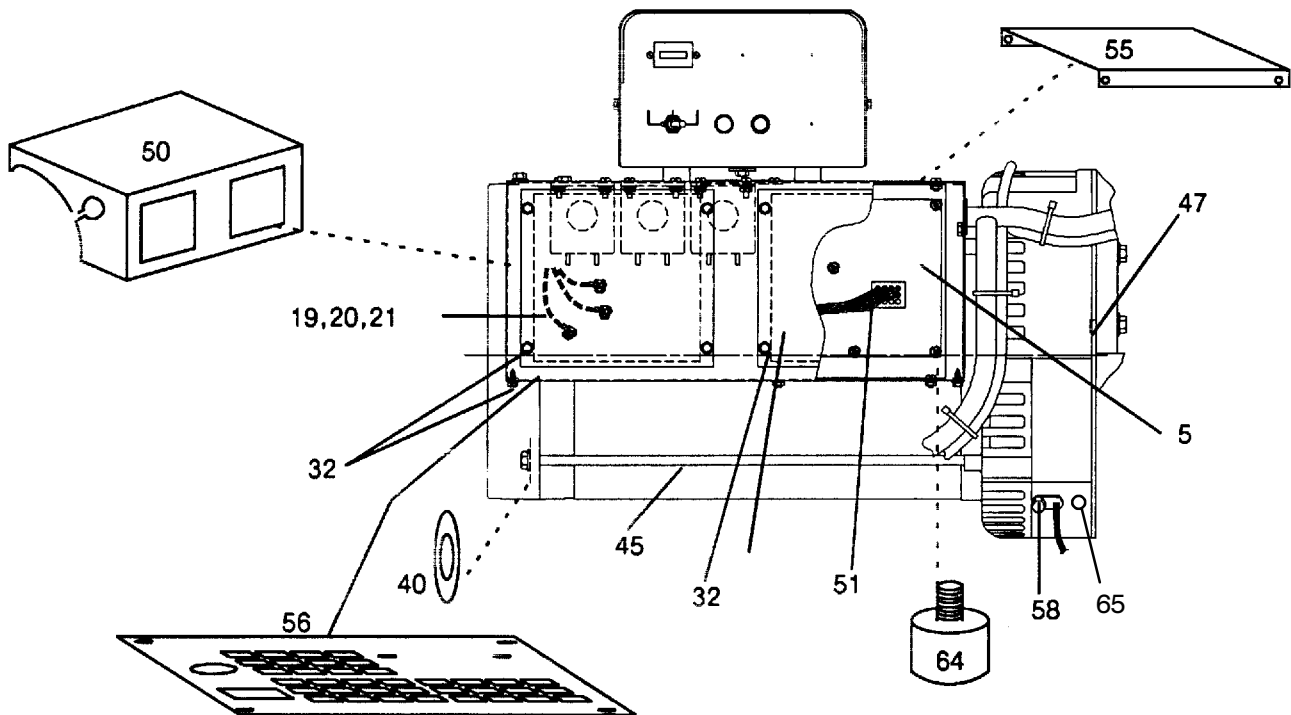
Group 201 Generator & Mtg. (Variations 8, 9, 16, 17 Only)

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Rotor Assy. (includes items 2-4) 8,16	A-257346	21	1	Tag, lead L3 8,9,16,17	X-750-16
	1	Rotor Assy. (includes items 2-4) 9,17	A-257348	22	13	Screw, HC 1/4-20 x 3/4 8,9,16,17	X-465-16 #
2	1	Board, circuit 8,9,16,17	A-239669	23	2	Screw, HC 1/4-20 x 5/8 8,9,16,17	X-465-2 #
3	2	Spacer, 7/32 x 5/16 x 3/16 8,9,16,17	X-400-143	24	2	Screw, HC 1/4-20 x 1 8,9,16,17	X-465-7 #
4	1	Bearing, ball 8,9,16,17	X-758-1	25	2	Screw, RHM 6-32 x 7/8 8,9,16,17	X-49-3 #
5	1	Board, circuit (voltage regulator) 8,9,16,17	B-258296	26	3	Screw, RHM 6-32 x 3/4 8,9,16,17	X-49-6 #
6	5	Washer, split lock #6 8,9,16,17	X-18-1 #	27	4	Screw, RHM 10-24 x 3/8 8,9,16,17	X-50-13 #
7	15	Washer, split lock #8 8,9,16,17	X-18-2 #	28	3	Screw, RHM 8-32 x 5/16 8,9,16,17	X-51-15 #
8	4	Washer, split lock #10 8,9,16,17	X-19-1 #	29	1	Grommet, nylon 8,9,16,17	X-6033-2
9	11	Washer, split lock 1/4 8,9,16,17	X-20-1 #	30	6	Screw, HC M8-1.25 x 16 mm 8,9,16,17	X-6050-8 #
10	6	Washer, split lock 5/16 8,9,16,17	X-21-1 #	31	1	Grommet, nylon 8,9,16,17	X-6072-2
11	3	Washer, split lock 3/8 8,9,16,17	X-22-1 #	32	12	Screw, phil. hex crim. 10-24 x 1/2 8,9,16,17	X-6216-1
12	11	Washer, int. tooth 1/4 8,9,16,17	X-22-11 #	33	2	Screw, HC 3/8-16 x 1-3/4 8,9,16,17	X-6238-1 #
13	1	Washer, int./ext. tooth lock 1/4 8,9,16,17	X-22-12 #	34	2	Screw, HC 3/8-16 x 2 8,9,16,17	X-6238-6 #
14	1	Washer, int./ext. tooth lock 3/8 8,9,16,17	X-22-14 #	35	4	Screw, hex head 10-24 x 1/2 8,9,16,17	X-67-52 #
15	7	Washer, plain 9/32 x 5/8 x 1/16 8,9,16,17	X-25-40 #	36	4	Nut, hex 10-24 8,9,16,17	X-70-2 #
16	3	Washer, plain 17/64 x 9/16 x 1/16 8,9,16,17	X-25-72 #	37	5	Nut, hex 6-32 8,9,16,17	X-71-2 #
17	8	Spacer, 9/32 x 13/32 x 3/32 8,9,16,17	X-400-156	38	15	Nut, hex 8-32 8,9,16,17	X-72-4 #
18	4	Spacer, 1/20 x 9/32 x 1/4 8,9,16,17	X-400-31	39	4	Washer, hardened 8,9,16,17	X-801-2
19	1	Tag, lead L1 8,9,16,17	X-750-14	40	4	Washer, hardened 8,9,16,17	X-801-3
20	1	Tag, lead L2 8,9,16,17	X-750-15	41	15	Nut, hex 1/4-20 8,9,16,17	X-81-1 #

#Common Hardware, Procure Locally

Series 1104 & 1105

Group 201 Generator & Mtg. Variations 8, 9, 16, 17 (Only)



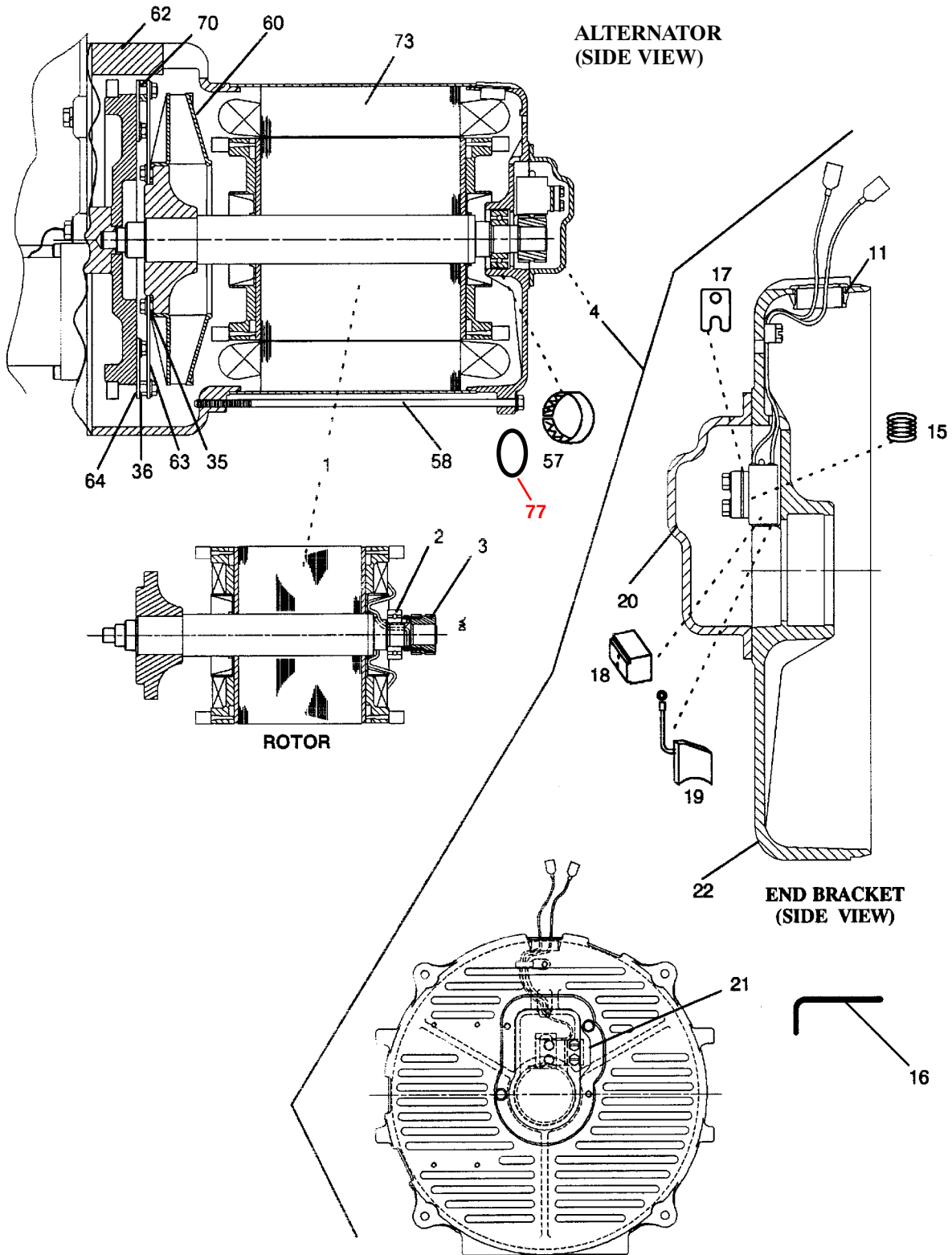
Series 1104 & 1105

Group 201 Generator & Mtg. - continued (Variations 8, 9, 16, 17 Only)

Item Qty.	Description Variation(s)	Part No.	Item Qty.	Description Variation(s)	Part No.
42 1	Ring, tolerance (early) 8,9	238211	57 2	Spacer (early) Use item 18 8,9	254828
43 1	Fan, generator 8,9,16,17	239646	58 1	Speed Sensor Assembly (early) 8,9	254842
44 1	Exciter Assembly 8,9,16,17	239702	59 1	Adapter, generator 8,9,16,17	254856
45 4	Bolt, over 8,9,16,17	239720	60 1	Board, circuit (governor) (used with magnetic pick up) 8,9,16,17	A-249922
46 1	Bracket, end 8,9,16,17	228614	1	Board, governor (AC Sensing) 8,9,16,17	254902
47 2	Pin, dowel 8,9,16,17	246064	61 1	Stator Assembly 8	257352
48 1	Disc, drive 8,9,16,17	256873	1	Stator Assembly 9	257354
49 1	Disc, drive 8,9,16,17	256872	1	Stator Assembly 16	228537
50 1	Box, junction 8,9,16,17	226485	1	Stator Assembly 17	228538
51 1	Harness, wiring 8,9,16,17	254817	62 1	Panel, louver 8,9,16,17	250713
52 1	Strip, terminal 8,9,16,17	254819	63 1	Screw, special 8,9,16,17	267491
53 1	Marker, strip 8,9,16,17	254821	64 6	Mount, vibro 8,9,16,17	282829
54 2	Panel, junction box 8,9,16,17	254724	65 1	Pick up, magnetic speed 8,9,16,17	226532
55 1	Bracket, regulator 8,9,16,17	226482	66 1	Sensor, ferro-magnetic (not shown) 8,9,16,17	241623
56 1	Panel, junction box 8,9,16,17	226584	67 1	Actuator, magnetic (not shown) 8,9,16,17	254904
	Plug, button 8,9,16,17	X-301-21	68 1	O-Ring 8,9,16,17	256466

Series 1104 & 1105

Group 201 Generator & Mtg. - continued (Variations 5, 6 Only)



Series 1104 & 1105

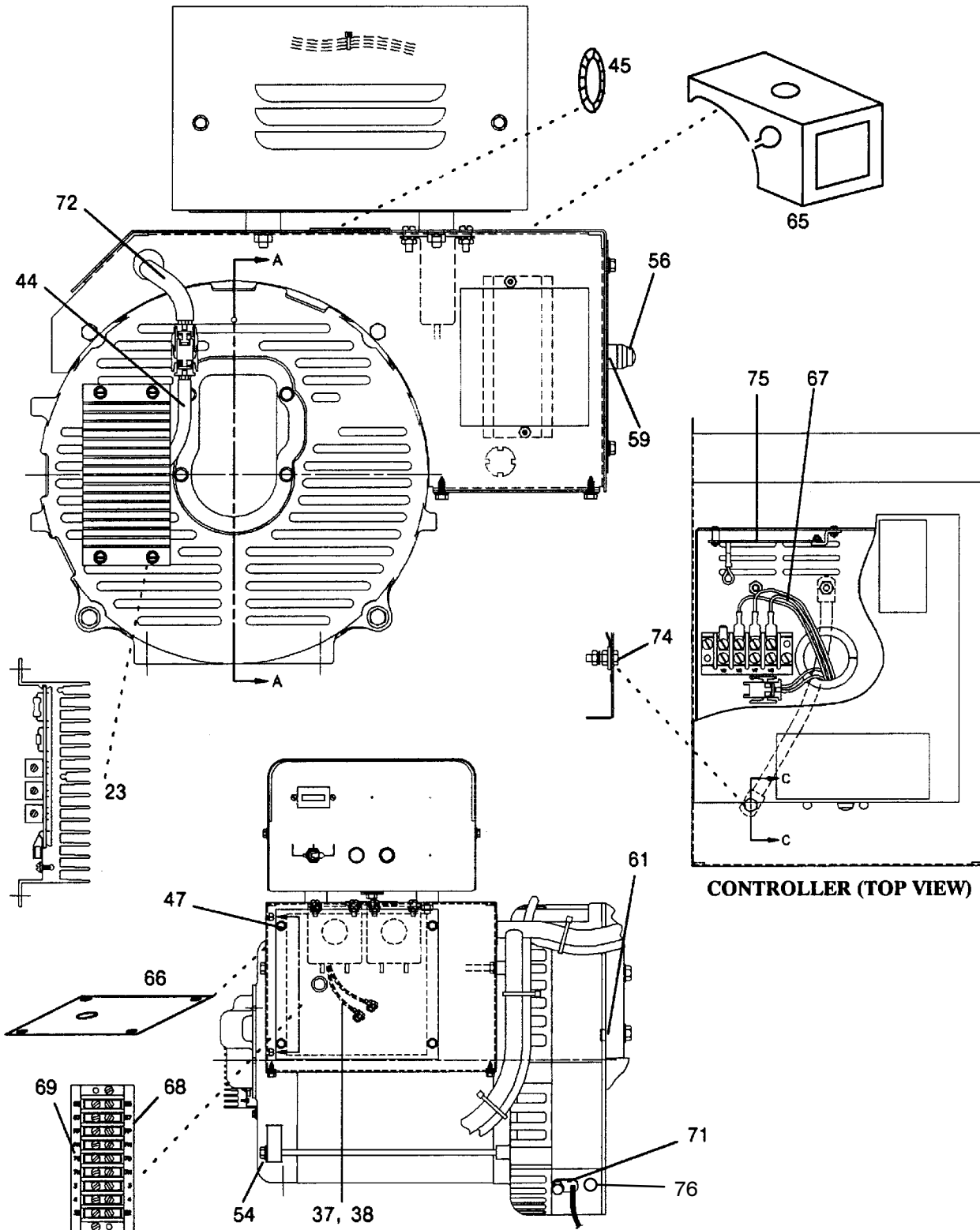
Group 201 Generator & Mtg. - continued (Variations 5, 6 Only)

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Rotor Assy. (includes items 2-3) 5	A-249376	20	1	Cover, brush holder 5,6	278804
	1	Rotor Assy. (includes items 2-3) 6	A-249377		1	Gasket, cover 5,6	278427
2	1	Bearing, ball 5,6	X-758-1	21	1	Bracket 5,6	229138
3	1	Ring, collector 5,6	241671	22	1	Bracket, end 5,6	229138
4	1	End Bracket Assy. (includes items 5-22) 5,6	C-254994	23	1	Voltage Regulator Assembly 5,6	F-278598
5	1	Washer, split lock #10 5,6	X-19-1 #	24	5	Washer, split lock #6 5,6	X-18-1 #
6	2	Washer, int. tooth lock #6 5,6	X-22-6 #	25	3	Washer, split lock #8 5,6	X-18-2 #
7	1	Washer, plain 13/64 x 3/4 x 1/16 5,6	X-25-45 #	26	9	Washer, split lock 1/4 5,6	X-20-1 #
8	2	Washer, plain 3/16 x 7/16 x 15/32 5,6	X-25-48 #	27	6	Washer, split lock 5/16 5,6	X-21-1 #
9	2	Screw, RHM 6-32 x 5/16 5,6	X-49-1 #	28	3	Washer, split lock 3/8 5,6	X-22-1 #
10	2	Screw, RHM 10-32 x 7/16 5,6	X-50-67 #	29	11	Washer, int. tooth lock 1/4 5,6	X-22-11 #
11	1	Bushing, nylon 5,6	X-634-12	30	1	Washer, int./ext. tooth lock 1/4 5,6	X-22-12 #
12	3	Screw, self-tapping 5,6	X-67-64 #	31	1	Washer, int./ext. tooth lock 3/8 5,6	X-22-14 #
13	1	Screw, HC slotted 10-32 x 3/8 5,6	X-97-11 #	32	4	Washer, split lock #8 5,6	X-22-7 #
14	2	Screw, hex head machine 10-32 x 7/16 5,6	X-97-13 #	33	2	Washer, plain 9/32 x 5/8 x 1/16 5,6	X-25-40 #
15	2	Spring 5,6	238150	34	3	Washer, plain 17/64 x 9/16 x 1/16 5,6	X-25-72
16	1	Retainer wire (service tool) 5,6	238247	35	8	Spacer, 9/32 x 13/32 x 3/32 5,6	X-400-156
17	3	Shim, brush holder 5,6	238248	36	4	Spacer, 1/20 x 9/32 x 1/4 5,6	X-400-31
18	1	Holder, brush 5,6	239247	37	1	Tag, lead L1 5,6	X-452-2
19	2	Brush 5,6	239282	38	1	Tag, lead L2 5,6	X-452-3
				39	9	Screw, HC 1/4-20 x 3/4 5,6	X-465-16 #

#Common Hardware, Procure Locally

Series 1104 & 1105

Group 201 Generator & Mtg. - continued (Variations 5, 6 Only)



Series 1104 & 1105

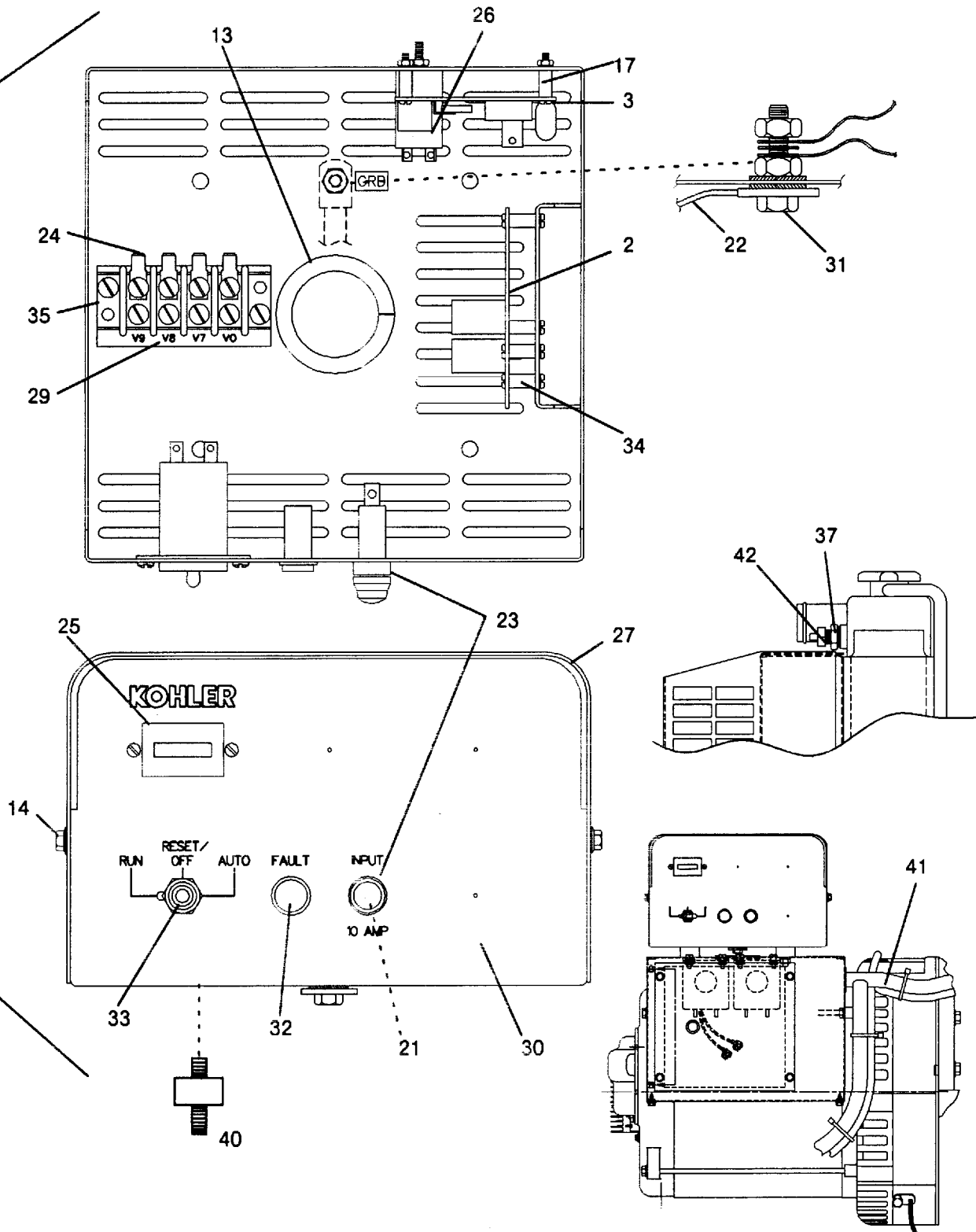
Group 201 Generator & Mtg. - continued (Variations 5, 6 Only)

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
40	2	Screw, HC 1/4-20 x 1/2 5,6	X-465-6 #	61	2	Pin, dowel 5,6	246064
41	2	Screw, RHM 6-32 x 7/8 5,6	X-49-3 #	62	1	Adapter, generator 5,6	246074
42	3	Screw, RHM 6-32 x 3/4 5,6	X-49-6 #	63	1	Disc, drive 5,6	256873 249412
43	3	Screw, RHM 8-32 x 5/16 5,6	X-51-15 #	64	1	Disc, drive 5,6	256873
44	1	Conduit 5,6	X-6003-104		1	Disc, drive 5,6	256872
45	1	Grommet, nylon 5,6	X-6033-4	65	1	Bracket, controller 5	254718
46	6	Screw, HC M8-1.25 x 16 mm 5,6	X-6050-8 #		1	Bracket, controller 6	254719
47	4	Screw, Phil. hex crim. 10-24 x 1/2 5,6	X-6216-1	66	1	Panel, regulator mounting 5,6	254724
48	2	Screw, HC 3/8-16 x 1-3/4 5,6	X-6238-1 #	67	1	Harness, wiring 5,6	254815
49	2	Screw, HC 3/8-16 x 2 5,6	X-6238-6 #	68	1	Strip, terminal 5,6	254819
50	4	Screw, hex slotted head 5,6	X-67-113	69	1	Strip, marker 5,6	254821
51	2	Screw, self-tapping 5,6	X-67-113 #	70	2	Actuator, magnetic 5,6	256893
52	5	Nut, hex 6-32 5,6	X-71-2 #		4	Pin, roll 5,6	X-280-24
53	3	Nut, hex 8-32 5,6	X-72-4 #	71	1	Speed Sensor Assembly 5,6	254842
54	2	Washer, hardened 5,6	229239	72	1	Harness, wiring 5,6	254992
55	14	Nut, hex 1/4-20 5,6	X-81-1 #	73	1	Stator Assembly 5	257351
56	1	Fuse, 10 Amp. 5,6	223316		1	Stator Assembly 6	257353
57	1	Ring, tolerance 5,6	238211	74	1	Screw, special 5,6	267491
58	4	Bolt, over 5	238246	75	1	Board, governor circuit (AC Sensing) 5,6	254902
	4	Bolt, over 6	249401		1	Board, governor circuit (used with magnetic pick up) 5,6	A-249922
59	1	Holder, fuse 5,6	238426	76	1	Pick up, magnetic 5,6	226532
60	1	Fan, generator 5,6	239646	77	1	O-Ring 5,6	256466

#Common Hardware, Procure Locally

Series 1104 & 1105

Group 301 Controller & Mtg.



Series 1104 & 1105

Group 301 Controller & Mtg.

Item	Qty.	Description Variation(s)	Part No.	Item	Qty.	Description Variation(s)	Part No.
1	1	Controller Assy. (includes items 2-36) 10, 11	A-254954	22	1	Lead, ground 10, 11	230857
2	1	Board, circuit (main) 10, 11	B-254717	23	1	Holder, fuse 10, 11	238426
3	1	Board, circuit (cyclic cranking) 10, 11	C-284507	24	4	Terminal 10, 11	238582
4	6	Washer, split lock #6 10, 11	X-18-1 #	25	1	Meter, hour 10, 11	238736
5	4	Washer, split lock #4 10, 11	X-18-4 #	26	1	Relay, K6 10, 11	241736
	2	Washer, split lock #10 10, 11	X-19-1 #	27	1	Cover, controller 10, 11	254800
6	1	Washer, int. tooth lock 1/4 10, 11	X-22-11 #	28	1	Harness, wiring (not shown - leads 3/4/32 to term. strip) 10, 11	254820
7	2	Washer, int./ext. tooth lock 1/4 10, 11	X-22-12 #	29	1	Marker, strip 10, 11	254822
8	2	Washer, int./ext. tooth lock #6 10, 11	X-22-6 #	30	1	Box, silkscreened 10, 11	254953
9	18	Screw, RHM 6-32 x 1/4 10, 11	X-49-25 #	31	1	Screw, special 10, 11	267491
10	4	Screw, RHM #4-40 x 7/8 10, 11	X-49-35 #	32	1	Lamp 10, 11	269373
11	2	Screw, pan head #6-32 x 1/2 10, 11	X-49-39	33	1	Switch, toggle 10, 11	287812
12	2	Screw, RHM 10-24 x 3/4 10, 11	X-50-3 #	34	5	Spacer, circuit board 10, 11	287948
13	1	Grommet, nylon 10, 11	X-6033-6	35	1	Strip, terminal 10, 11	292940
14	4	Screw, phil. hex crim. 10-24 x 1/2 10, 11	X-6216-1	36	8	Washer, split lock 1/4 10, 11	X-20-1 #
15	2	Nut, hex 10-24 10, 11	X-70-2 #	37	1	Bushing, reducer 3/8 x 1/2 NPT 10, 11	X-202-28
16	3	Nut, hex 6-32 10, 11	X-71-2 #	38	1	Plug, pipe 3/8 10, 11	X-75-10 #
17	4	Spacer, #8 x 1/2 x 1/4 10, 11	X-712-9	39	8	Nut, hex 1/4-20 10, 11	X-81-1 #
18	4	Nut, hex 4-40 10, 11	X-74-6 #	40	4	Mount, controller 10, 11	241769
19	1	Nut, hex 1/4-20 10, 11	X-81-1 #	41	4	Harness, engine 10, 11	226537
20	1	Nut, hex (green) 1/4-20 10, 11	X-81-8 #			Harness, engine 11	226534
21	1	Fuse, 10 Amp. 10, 11	223316	42	1	Sensor, low fluid 10, 11	254832

#Common Hardware, Procure Locally

Series 1104 & 1105

Group 701 Literature

Item Qty.	Description Variation(s)	Part No.	Item Qty.	Description Variation(s)	Part No.
	O/M 10-18RY/RZ, Industrial	TP-5870			
	O/M Ford VSG411/413 (PPD194-263)	TP-5398			
	I/M Industrial	TP-5700			
	P/C 10RY/RZ, 12RY/RZ	TP-5849			
	S/M Ford VSG-411/413	TP-5346			
	S/M 10-18RY/RZ, Industrial	TP-5847			
	W/D 10-18RY/RZ, 17/22RY	TP-5716			
	Warranty 1-Year Limited, Industrial	TP-5374			
	Warranty, California Emission Control	TP-5762			

Series 1104 & 1105

Accessories

NOTE: Accessory kit components are listed later in this section.

Description	Part No.	Description	Part No.
CONTROLLER KITS - LOOSE		FUEL SYSTEM KITS - LOOSE	
5-Light Controller, Single Phase*	PA-254700	Flexible Fuel Lines, Gas	PA-256869
CONTROLLER KITS - INSTALLED		Flexible Fuel Lines, Gasoline	PA-254976
5-Light Controller, Single Phase*	254700	Flexible Fuel Lines	PA-272966
5-Light Controller, Three-Phase*	254807	Gas Strainer	PA-290275
5-Light Controller, 600-Volt*	254701	Auxiliary Fuel Pump	PA-247076
Remote Controller Kit	226352	Electric Fuel Pump	PA-225208
Remote Controller Kit	256485	FUEL SYSTEM KITS - INSTALLED	
Relay Controller, Single-Phase**	254833	Gasoline Fuel System	254956
Relay Controller, Three Phase**	254873	Dual Fuel Kit	226285
CONTROLLER ACCESSORY KITS - LOOSE		Dual Fuel Kit	226296
40 ft. Controller Cable (5-Light Controller)	PA-254847	Straight Gas Fuel System	254958
Common Fault Relay (5-Light Controller)	PA-273914	Straight Gas Fuel System	256950
Common Fault Relay	PA-256882	Straight Gas Fuel System	226290
Dry Contact Kit - 10 Relay (5-Light Controller)	PA-273913	Auxiliary Fuel Pump	247076
Dry Contact Kit	PA-256881	Flexible Fuel Lines, Gas	254976
Dry Contact Kit	PA-256887	Flexible Fuel Lines, Gasoline	254976
Remote Annunciator (Relay and 5-Light Controllers)	PA-258782	AIR CLEANER KITS - INSTALLED	
Remote Audio/Visual Alarm (Relay and 5-Light Controllers)	PA-292856	Air Cleaner Kit	256459
Anticipator Alarm Kit	PA-256988	Air Cleaner Kit	256460
Remote Emergency Stop (Relay and 5-Light Controllers)	PA-292366	ELECTRICAL SYSTEM KITS - LOOSE	
Run Relay (5-Light Controller)	PA-273743	Battery Charger, 12-Volt Equalize/Float	PAA-292862
Overvoltage Protection (5-Light Controller)	PA-291746	Battery Charger, 12-Volt Equalize/Float (with alarms)	PAA-292863
Customer Connection Kit	PA-256886	Battery Charger, 12-Volt Trickle	PAA-248952
16-Light Panel (FM)	PA-254484	Battery Cables, 36 in.	PA-254988
16-Light Panel (SM)	PA-256471	Battery Rack (Single-Phase/RV)	PA-254883
CONTROLLER ACCESSORY KITS - INSTALLED		Battery Rack (Three-Phase/RZ)	PA-254884
Common Fault Relay	273914	Battery, 12-Volt	PA-239102
Remote Connection (5-Light Controllers on RV sets only)	254855	Battery Kit	PA-253357
Remote Connection	256480	ELECTRICAL SYSTEM KITS - INSTALLED	
Run Relay	273743	Battery Rack (Single-Phase)	254883
Engine Gauge Kit	254975	Battery Rack (Three-Phase)	254884
COOLING SYSTEM KITS - LOOSE		MISCELLANEOUS ENGINE KITS - LOOSE	
Radiator Duct Flange (with Radiator Shroud)	PA-254757	Block Heater, 110-120-Volt, 90 Degree Rise	PA-254968
COOLING SYSTEM KITS - INSTALLED		Block Heater, 190-240-Volt, 90 Degree Rise	PA-254970
Radiator Cooling System	254959	Block Heater Kit	PA-256839
Radiator Cooling System	226349	Heat Recovery Fittings	PA-254921
Radiator Duct Flange (with Radiator Shroud)	254757	Oil Drain	PA-254747
Radiator Cooling System (with Sound Shield)	226346	* Controller components identified in listings later in this section.	
City Water Cooling Kit	256936	**See Controller Group 301 for controller components.	

Series 1104 & 1105

Accessories - continued

NOTE: Accessory kit components are listed later in this section.

Description	Part No.	Description	Part No.
MISCELLANEOUS ENGINE KITS - INSTALLED		GENERATOR KITS - INSTALLED	
Block Heater, 110-120-Volt, 90 Degree Rise	254968	Line Circuit Breakers	
Block Heater, 190-240-Volt, 90 Degree Rise	254970	2-Pole, 240-Volt, 40 Amp.	254727
Block Heater Kit	256839	2-Pole, 240-Volt, 50 Amp.	254728
Heat Recovery Fittings	254921	3-Pole, 600-Volt, 15 Amp.	254729
Oil Drain	254747	3-Pole, 600-Volt, 20 Amp.	254730
Battery Heater	256980	3-Pole, 600-Volt, 30 Amp.	254731
		3-Pole, 600-Volt, 40 Amp.	254732
		3-Pole, 480-Volt, 50 Amp.***	254733
		3-Pole, 600-Volt, 60 Amp.***	254876
EXHAUST SYSTEM KITS - LOOSE		Load Connection (Single-Phase)	254881
Flexible Exhaust Connection,		Load Connection (Three-Phase)	254882
12 in. Stainless Steel	PA-254973	AC Connection	256900
Critical/Industrial Silencer Mounting	PA-254965	Skid End Cap	254762
Critical/Industrial Silencer (Engine Mount)	PA-254964	Strip Heater	256892
Critical/Industrial Silencer			
(End In/End Out, 1.25 In. NPT)	PA-150213		
Tail Pipe and Rain Cap (with Housed Silencers)	PA-256851		
EXHAUST SYSTEM KITS - INSTALLED		LIFTING EYE KITS - LOOSE	
Critical/Industrial Silencer Mounting	254965	Lifting Eye Kit	PA-256912
Critical Silencer (Engine Mount)	254964	Lifting Eye Kit	PA-256913
Critical/Industrial Silencer			
(End In/End Out, 1.25 In. NPT)	150213		
Industrial Silencer (Engine Mounting)	254964		
Tail Pipe and Rain Cap (with Housed Silencers)	256851		
WEATHER HOUSING KITS - LOOSE		LIFTING EYE KITS - INSTALLED	
Weather Housing (Single-Phase/RZ Sets)	PA-254870	Lifting Eye Kit	256912
Weather Housing (Three-Phase/RZ Sets)	PA-254746	Lifting Eye Kit	256913
WEATHER HOUSING KITS - INSTALLED			
Weather Housing (Single-Phase/RZ Sets)	254870		
Weather Housing (Three-Phase/RZ Sets)	254746		
RODENT GUARD KITS - INSTALLED		SOUND SHIELD KITS - LOOSE	
Kit (screen only)	256930	Sound Shield Kit	PA-256826
Kit (screen and louver)	256931	Sound Shield Kit	PA-256877
		Sound Shield Kit	PA-256874
		Sound Shield Kit	PA-256875
GENERATOR KITS - LOOSE		SOUND SHIELD KITS - INSTALLED	
Line Circuit Breakers		Sound Shield Kit	256826
2-Pole, 240-Volt, 40 Amp.	PA-254727	Sound Shield Kit	256827
2-Pole, 240-Volt, 50 Amp.	PA-254728	Sound Shield Kit	256874
3-Pole, 600-Volt, 15 Amp.	PA-254729	Sound Shield Kit	256875
3-Pole, 600-Volt, 20 Amp.	PA-254730		
3-Pole, 600-Volt, 30 Amp.	PA-254731		
3-Pole, 600-Volt, 40 Amp.	PA-254732		
3-Pole, 480-Volt, 50 Amp.***	PA-254733		
3-Pole, 600-Volt, 60 Amp.***	PA-254876		
Load Connection (Single-Phase)	PA-254881		
Load Connection (Three-Phase)	PA-254882		
AC Connection	PA-256900		
Skid End Cap	PA-254762		
		GENERATOR PAINT	
		Cream Beige, Gallon	221322
		Cream Beige Spray Paint	221323
		*** 12RY/RZ models only	

Series 1104 & 1105

Accessory Kit Components

NOTE: Accessory common hardware are not listed. Component quantity is 1 unless noted in () following component description.

Description	Part No.	Description	Part No.
5-Light Controller Kit (Single-Phase)	PA-254700 and 254700	Controller Assembly	A-254789
Controller Assembly	A-254789	Potentiometer	A-254796
Potentiometer	A-254796	Board, circuit	A-292381
Board, circuit	A-292381	Board, circuit	F-292806
Board, circuit	F-292806	Grommet	X-284-31
Grommet	X-284-31	Plug, button	X-301-29
Plug, button	X-284-31	Terminal, female	X-431-42
Terminal, female	X-431-42	Sleeving (4)	X-6004-3
Sleeving (4)	X-6004-3	Jumper	X-6048-2
Jumper	X-6048-2	Tubing, heat shrink (2)	X-6079-2
Tubing, heat shrink (2)	X-6079-2	Screw, phil hex crim (9)	X-6216-1
Screw, phil hex crim (9)	X-6216-1	Sleeving	X-696-5
Sleeving	X-696-5	Spacer	X-712-9
Spacer #8 x 1/2 x 1/4 (4)	X-712-9	Screw, drill	X-794-2
Screw, drill #8-18 (2)	X-794-2	Lead, ground	230857
Lead, ground	230857	Meter, hour	238736
Meter, hour	238736	Terminal	238898
Terminal	238898	Plug, connector	241617
Plug, connector	241617	Relay	241736
Relay	241736	Diode (2)	241739
Diode (2)	241739	Block, terminal	246115
Block, terminal	246115	Voltmeter	253329
Voltmeter	253329	Ammeter	254791
Ammeter	254791	Nameplate	254793
Nameplate	254793	Plate, hinge	254824
Plate, hinge	254824	Lamp (2)	255126
Lamp (2)	255126	Voltmeter, AC	282816
Voltmeter, AC	282816	Meter, frequency	282818
Meter, frequency	282818	Gauge, oil pressure	282897
Gauge, oil pressure	282897	Gauge, water temperature	282898
Gauge, water temperature	282898	Socket, lamp (2)	284990
Socket, lamp (2)	284990	Spacer, circuit board (9)	287948
Spacer, circuit board (9)	287948	Fuse, 1.5 Amp. (3)	91207
Fuse, 1.5 Amp. (3)	91207	Lamp (2)	291740
Lamp (2)	291740	Decal, fuse ident.	292347
Decal, fuse ident.	292347	Decal, voltage adjust.	292361
Decal, voltage adjust.	292361	Switch, selector	292373
Switch, selector	292373	Box, controller	292375
Box, controller	292375	Cover, controller	292818
Cover, controller	292818	Holder, fuse	292821
Holder, fuse	292821	Marker, strip	292823
Marker, strip	292823	Bumper (4)	292834
Bumper (4)	292834	Harness, cable	292836
Harness, cable	292836		
5-Light Controller Kit (Three-Phase)	254807		
Cross, pipe 1/8	164037		
Transformer, current (3)	254786		
Harness, wiring	254872		
Diode	254990		
Sender, temperature	255240		
Sender, oil pressure	264390		
Switch Assembly	273404		
Nipple, pipe 1/8 x 1-1/2	289055		

Series 1104 & 1105

Accessory Kit Components

NOTE: Accessory common hardware are not listed. Component quantity is 1 unless noted in () following component description.

Description	Part No.	Description	Part No.
Remote Controller Kit	226352	5-Light Controller Kit (600-Volt) continued	254701
Controller Assembly	A-254790	Board, circuit	F-292806
Potentiometer	A-254796	Grommet	X-284-31
Board, circuit	A-292381	Plug, button	X-301-29
Board, circuit	F-292806	Terminal, female	X-431-42
Grommet	X-284-31	Sleeving (4)	X-6004-3
Plug, button	X-301-29	Jumper	X-6048-2
Terminal, female	X-431-42	Tubing, heat shrink (2)	X-6079-2
Sleeving (4)	X-6004-3	Screw, phil hex crim (9)	X-6216-1
Jumper	X-6048-2	Sleeving	X-696-5
Tubing, heat shrink (2)	X-6079-2	Spacer	X-712-9
Screw, phil hex crim (9)	X-6216-1	Screw, drill	X-794-2
Sleeving	X-696-5	Lead, ground	230857
Spacer	X-712-9	Meter, hour	238736
Screw, drill	X-794-2	Terminal	238898
Lead, ground	230857	Plug, connector	241617
Meter, hour	238736	Relay	241736
Terminal	238898	Diode (2)	241739
Plug, connector	241617	Block, terminal	246115
Relay	241736	Voltmeter	253329
Diode (2)	241739	Ammeter	254791
Block, terminal	246115	Nameplate	254793
Voltmeter	253329	Plate, hinge	254824
Ammeter	254791	Lamp (2)	255126
Nameplate	254793	Voltmeter, AC	282816
Plate, hinge	254824	Meter, frequency	282818
Lamp (2)	255126	Gauge, oil pressure	282897
Voltmeter, AC	282816	Gauge, water temperature	282898
Meter, frequency	282818	Socket, lamp (2)	284990
Gauge, oil pressure	282897	Spacer, circuit board (9)	287948
Gauge, water temperature	282898	Fuse, 1.5 Amp. (3)	291207
Socket, lamp (2)	284990	Lamp (2)	291740
Spacer, circuit board (9)	287948	Decal, fuse ident.	292347
Fuse, 1.5 Amp. (3)	291207	Decal, voltage adjust.	292361
Lamp (2)	291740	Switch, selector	292373
Decal, fuse ident.	292347	Box, controller	292375
Decal, voltage adjust.	292361	Cover, controller	292818
Switch, selector	292373	Holder, fuse	292821
Box, controller	292375	Marker, strip	292823
Cover, controller	292818	Bumper (4)	292834
Holder, fuse	292821	Harness, cable	292836
Marker, strip	292823		
Bumper (4)	292834	Remote Controller Kit	256485
Harness, cable	292836	Controller Assembly	A-254790
		Potentiometer	A-254796
5-Light Controller Kit (600-Volt)	254701	Board, circuit	A-292381
Cross, pipe 1/8	164037	Board, circuit	F-292806
Transformer, current (3)	254786	Grommet	X-284-31
Harness, wiring	254872	Plug, button	X-301-29
Diode	254990	Terminal, female	X-431-42
Sender, temperature	255240	Sleeving (4)	X-6004-3
Sender, oil pressure	264390	Jumper	X-6048-2
Switch Assembly	273404	Tubing, heat shrink (2)	X-6079-2
Nipple, pipe 1/8 x -1	289055	Screw, phil hex crim (9)	X-6216-1
Controller Assembly	A-254790	Sleeving	X-696-5
Potentiometer	A-254796	Spacer	X-712-9
Board, circuit	A-292381	Screw, drill	X-794-2
		Lead, ground	230857

#Common Hardware, Procure Locally

Series 1104 & 1105

Accessory Kit Components

NOTE: Accessory common hardware are not listed. Component quantity is 1 unless noted in () following component description.

Description	Part No.	Description	Part No.
Remote Controller Kit (continued)	256485	Dry Contact Kit	PA-256887
Meter, hour	238736	PCB Assembly, relay dr.	D-294303
Terminal	238898	Screw, phil. hex crim	X-6216-1
Plug, connector	241617	Spacer, 8 x 1/2 x 1/4 (6)	X-712-9
Relay	241736	Grommet	243319
Diode (2)	241739	Box, dry contact	256878
Block, terminal	246115	Cover, dry contact	256880
Voltmeter	253329	Block, terminal	273769
Ammeter	254791	Strip, terminal	273770
Nameplate	254793	Installation Instruction	TT-951
Plate, hinge	254824		
Lamp (2)	255126	Dry Contact Kit	PA-256881
Voltmeter, AC	282816	PCB Assembly, 1 relay dr.	C-294301
Meter, frequency	282818	Lead	SWK1-1823-2222
Gauge, oil pressure	282897	Lead	SWO2-1818-2222
Gauge, water temperature	282898	Lead	T42A-1818-2222
Socket, lamp (2)	284990	Spacer, #8 x 1/2 x 1/4 (4)	X-712-9
Spacer, circuit board (9)	287948	Bracket, mounting	256877
Fuse, 1.5 Amp. (3)	291207		
Lamp (2)	291740	Remote Annunciator	PA-258782
Decal, fuse ident.	292347	Annunciator Panel Assembly	A-258782
Decal, voltage adjust.	292361	Board, circuit	A-292885
Switch, selector	292373	Grommet, 1-3/8	X-284-3
Box, controller	292375	Screw, drill (6)	X-794-2
Cover, controller	292818	Bracket, wall mounting	253346
Holder, fuse	292821	Panel, front	253350
Marker, strip	292823	Decal, marker	258832
Bumper (4)	292834	Nameplate	258834
Harness, cable	292836	Harness, wiring	258890
		Block, terminal	258891
		Panel, side	287798
40 Ft. Controller Cable (no components)	PA-254847		
Common Fault Relay	PA-273914 and 273914	Remote Audio/Visual Alarm	PA-292856
Board, relay circuit	C-294301	Panel Assembly	A-292887
Spacer	X-712-9	Board, circuit	A-292883
Harness, wiring	273772	Stud, self-clinching (4)	X-6205-3
Installation Instruction	TT-730	Spacer #8 x 1/2 x 1/4 (4)	X-712-9
		Lens, red	253241
Common Fault Relay	PA-256882	Screw, mounting (4)	292828
PCB Assembly, diode	A-256884	Plate, silkscreened	292936
PCB Assembly, 1 relay dr.	C-294301	Installation Instruction	TT-639
Spacer (7)	X-712-9		
Bracket, mounting	256877	Anticipatory Alarm Kit	PA-256988
Harness, wiring	256883	Bushing, reducer 3/8	X-202-23
		Switch, high temp.	255242
Dry Contact Kit - 10 Relay	PA-273913	Switch, low water temp.	255264
Contact Assembly	A-273936	Tube, rad. inlet	256998
Board, circuit	D-294303	Switch, pressure	271425
Stud, self-clinching (6)	X-6205-3		
Screw, phil hex crim 10-24 x 1/2 (4)	X-6216-1	Chime Alarm Kit	PA-292496
Spacer #8 x 1/2 x 1/4 (6)	X-712-9	Plate Assembly	A-292497
Grommet	243319	Installation Instruction	TT-827
Box, dry contact	336594		
Cover, dry contact	273934	Remote Emergency Stop Kit (no components)	PA-292366
Harness, wiring	273935		
Vibromount	282829	Run Relay Kit	PA-273743 and 273743
Installation Instruction	TT-730	Relay Assembly	273705
		Installation Instruction	TT-700

Series 1104 & 1105

Accessory Kit Components

NOTE: Accessory common hardware are not listed. Component quantity is 1 unless noted in () following component description.

Description	Part No.	Description	Part No.
Overvoltage Protection Kit	PA-291746	16-Light Panel Kit (continued)	PA-256484
Board, circuit	G-291739	Fuse 10 amp	223316
Terminal insulink 14-16 GA.	X-367-1	Grommet	243488
Spacer (2)	292372	Harness, wiring	256473
Installation Instruction	TT-1003	Bracket, fuse holder	256492
		Block, fuse	256493
Customer Connection Kit	PA-256886	Marker, strip	256494
Screw, phil hex. crim (4)	X-6216-1	Harness, annunciator	256495
Grommet	243319	Box, dry contact	256878-KCB
Box, dry contact	256878	Cover, dry contact	256880-KCB
Cover, dry contact	256880	Terminal, 16-14 wire	X-283-32
Block, terminal	273769	Terminal	X-283-4
Strip, terminal	273770	Terminal	X-283-5
		Screw, panel (4)	X-6286-1
16-Light Panel Kit	PA-256471	Box, annunciator	256491
Panel Assembly	A-256472		
PCB Assembly, 10 relay dry	D-294303	Remote Connection Kit	254855
Lead (8)	LW-1803	Box Assembly	A-254848
Grommet, 7/8	X-284-7	Grommet, nylon	X-6033-5
Spacer (6)	X-712-9	Grommet nylon	X-6033-8
Fuse, 10 amp	223316	Screw, phil hex crim 10-24 x 1/2 (4)	X-6216-1
Grommet	243488	Terminal (4)	238898
Harness, wiring	256473	Block, terminal	243845
Bracket, fuse holder	256492	Block, 3-terminal	246115
Block, fuse	256493	Cover, controller	254800
Marker, strip	256494	Box	254846
Harness, annunciator	256495	Bumper (4)	255443
Box, dry contact	256878-KCB	Bracket, mounting	258846
Cover, dry contact	256880-KCB	Marker, strip	258848
Panel Assembly, annunciator	A-258782	Strip, marker	282824
PCB Assembly, 16-light annunciator	A-292885	Cross, pipe 1/8	164037
Grommet, 1-3/8	X-284-3	Transformer, current (2)	254786
Screw, drill (6)	X-794-2	Harness, wiring	254813
Bracket, wall mounting	253346	Diode	254990
Panel, front	253350	Sender, temperature	255240
Decal, marker	258832	Sender, oil pressure	264390
Nameplate	258834	Lev. Switch Assembly	273404
Harness, wiring	258890	Nipple, pipe 1/8 x 1-1/2	289055
Block, terminal	258891		
Panel, side (2)	287798	Remote Connection Kit	256480
Terminal, 16-14 wire	X-283-32	Box Assembly	A-254848
Terminal	X-283-4	Grommet, nylon	X-6033-5
Terminal	X-283-5	Grommet nylon	X-6033-8
		Screw, phil hex crim 10-24 x 1/2 (4)	X-6216-1
16-Light Panel Kit	PA-256484	Terminal (4)	238898
Panel Assembly, annunciator	A-256452	Block, terminal	243845
PCB Assembly, 16-light annunciator	A-292885	Block, 3-terminal	246115
Spacer (4)	X-712-8	Cover, controller	254800
Panel	256453	Box	254846
Decal, marker	258832	Bumper (4)	255443
Nameplate	258834	Bracket, mounting	258846
Harness, wiring	258890	Marker, strip	258848
Block, terminal	258891	Strip, marker	282824
Panel Assembly	A256472	Plug, pipe 1/8	X-75-1
PCB Assembly, 10 relay dry	D-294303	Cross, pipe 1/8	164037
Lead	LW-1803	Harness, engine wire	226535
Grommet, 7/8	X-284-7	Transformer, current (3)	254786
Spacer (6)	X-712-9		

Series 1104 & 1105

Accessory Kit Components

NOTE: Accessory common hardware are not listed. Component quantity is 1 unless noted in () following component description.

Description	Part No.	Description	Part No.
Remote Connection Kit (continued)	256480	Radiator Cooling System (continued)	254959
Diode	254990	Tube, radiator outlet	254760
Sender, temperature	255240	Plug, exhaust manifold	254761
Sender, oil pressure	264390	Strap	254764
Switch Assembly, level	273404	Screw, socket hex cap (3)	254765
Nipple, pipe 1/8 x 1-1/2	289055	Screw, socket hex cap	254766
Engine Gauge Kit	254975	Guard, belt (right)	254778
Contact factory for components		Belt, V	254782
		Housing, thermostat	254810
Radiator Duct Flange Kit	PA-254757 and 254757	Orifice	254922
Screw, drill hex	X-794-1	Plug	254949
Frame, air duct (side)	254755		
Frame, air duct (bottom)	254756	Sound, Shield Cooling Kit	226346
Radiator Cooling System	254959	Radiator Assembly	A-254774
Radiator Assembly	A-254774	Washer, plain, .438 ID x 1 OD	X-25-1
Valve, drain 1/4	X-256-3	Waher, plain, .266 ID x 1 in. OD	X-25-73
Hose, 1-1/4 x 2-1/2	X-272-2	Valve, drain 1/4	X-256-3
Grommet 1-5/8	X-284-2	Hose 1-1/4 x 2-1/2	X-272-2
Hose, 1-1/2 ID x 4	X-304-2	Grommet, 1-5/8	X-284-2
Hose, 1-3/4 ID x 4	X-311-7	Hose	X-304-2
Hose, 5/8 ID x 6	X-312-44	Connector, Hose	X-380-5
Hose, 5/8 ID x 22	X-312-5	Line, fuel 2-1/4	X-386-95
Connector, hose	X-380-5	Clamp, hose 1-3/8	X-426-4
Line, coolant	X-386-95	Clamp, hose 1-9/16	X-426-6
Connector, hose 5/8	X-391-2	Clamp, hose 1-15/16	X-426-8
Clamp, hose 1/2 (4)	X-426-3	Clamp, hose 5/8	X-426-9
Clamp, hose 1-3/8 (4)	X-426-4	Plug, pipe 1/8	X-75-1
Clamp, hose 1-9/16 (2)	X-426-6	Plug, pipe 1	X-75-48
Clamp, hose 1-15/16 (6)	X-426-8	Plug, pipe 3/4	X-75-49
Clamp, hose 5/8 (4)	X-426-9	Plug, pipe	X-75-42
Connector, adapter hose (2)	X-582-2	Washer, hardened	X-801-2
Screw, phil hex crim 10-24 x 1/2 (22)	X-6216-1	Guard, belt	226260
Screw, drill hex 1/4-14 x 3/4 (2)	X-794-1	Guard, belt	226261
Washer, hardened (2)	X-801-2	Tube, radiator outlet	226567
Gasket, water outlet (2)	246059	Hose, lower radiator, 1.75 in. ID	226637
Gasket, exhaust manifold (4)	246060	Fan, pusher	226651
Cap	246062	Cap radiator	226734
Bottle, overflow	249396	Cover, thermostat	229064
Hose, molded 45 degree	249814	Gasket, water outlet	229963
Hose, molded 58 degree	249823	Gasket, water outlet	246059
Gasket, exhaust	249905	Hose, molded	249814
Hose, molded	249906	Hose, molded	249823
Manifold, exhaust	249916	Gasket, exhaust	249905
Thermostat	249930	Hose, molded	249906
Cover, thermostat	249942	Thermostat	249930
Plug	253268	Cover, thermostat	249942
Shroud, fan	254702	Flange, exhaust outlet	254692
Guard, belt (left)	254704	Support, radiator	254705
Support, radiator (right)	254705	Support, radiator	254706
Support, radiator (left)	254706	Plug, exhaust man.	254761
Shroud, radiator	254707	Strap	254764
Pulley, water pump	254721	Screw, hex socket head machine	254766
Guard, belt (top)	254735	Belt, V	254782
Fan, pusher	254736	Gasket, exhaust man.	254795
Cover, radiator	254738	Oriface	254922
Tube, radiator inlet	254759	Shroud, fan	256925
		Guard, fan	256946

Series 1104 & 1105

Accessory Kit Components

NOTE: Accessory common hardware are not listed. Component quantity is 1 unless noted in () following component description.

Description	Part No.	Description	Part No.
Sound , Shield Cooling Kit 226346 - continued		Radiator Coolant System Kit (continued)	226349
Bottle, overflow	256971	Shroud, fan	256925
Bracket, water bottle	256972	Guard, fan	256946
Bracket, air recir.	256973	Fan, blower	256966
Insulator, acoustic	256974	Bottle, overflow	256971
Insulator, acoustic	256975	Bracket, water bottle	256972
Manifold, exhaust	256979	Manifold, exhaust	256979
Bracket, air recir.	256995	Tube, rad. inlet	256998
Insulator, acoustic	256996	Spacer, fan	260088
Tube, rad. inlet	256998	Pulley, water pump	260091
Spacer, fan	260088		
Pulley, water pump	260091	City Water Cooling Kit	256936
Guard, belt	326797	Bushing, reducing (1/2 x 1/4 NPT)	X-202-27
Guard, belt	326798	Bushing, reducer (1/2 x 3/4 NPT)	X-202-41
		Nipple 1/2 x 1-3/16(2)	X-209-2
Radiator Coolant System Kit	226349	Elbow, street 1/2(2)	X-211-1
Radiator Assembly	A-254774	Coupling, pipe	X-216-24
Valve, drain 1/4	X-256-3	Nipple, pipe 1/8 x 3/4	X-217-6
Hose 1-1/4 x 2-12	X-272-2	Valve, drain 1/8	X-256-2
Grommet, 1-5/8	X-284-2	Hose 1-1/4 x 2-1/2	X-272-2
Hose	X-304-2	Hose	X-304-2
Connector, hose	X-380-5	Clamp, hose 1/2	X-309-14
Line, fuel	X-386-95	Valve, solenoid	X-350-7
Clamp, hose 1-3/8	X-426-4	Connector, hose	X-380-5
Clamp, hose 1-9/16	X-426-6	Line, fuel	X-386-93
Clamp, hose 1-15/16	X-426-8	Line, fuel	X-386-95
Clamp, hose 5/8	X-426-9	Clip, tube	X-414-1
Hose, radiator	X-6014-73	Clamp, hose 1-3/8	X-426-4
Plug, pipe 1/8	X-75-1	Clamp, hose 1-15/16	X-426-8
Plug, pipe 3/8	X-75-10	Clamp, hose 5/8 (3)	X-426-9
Plug, pipe 3/4	X-75-18	Hose	X-6014-62
Plug, pipe (2)	X-75-42	Screw, phil. hex crim.	X-6216-1
Washer, hardened	X-801-2	Plug, pipe 1/8	X-75-1
Guard, belt	226260	Plug, pipe 3/8	X-75-10
Guard, belt	226261	Plug, pipe 1	X-75-48
Tube, radiator outlet	226567	Plug, pipe 3/4	X-75-49
Gasket, water outlet	246059	Adapter, hose 1 x 1	X-751-1
Gasket, exhaust man.	246060	Screw, drill hex	X-794-1
Cap	246062	Elbow (2)	151385
Hose, molded	249814	Hose	226324
Hose, molded	249823	Cover, thermostat	229064
Gasket, exhaust	249905	Gasket, water outlet	229963
Hose, molded	249906	Gasket, exhaust man. (2)	246060
Thermostat	249930	Hose, molded	249814
Cover, thermostat	249942	Hose, molded	249823
Plug	253268	Gasket, exhaust	249905
Flange, exhaust outlet	254692	Cover, thermostat	249942
Support, radiator	254705	Flange, exhaust outlet	254692
Support, radiator	254706	Plug, exhaust man.	254761
Shroud, radiator	254707	Belt, V	254782
Cover, radiator	254738	Gasket, exhaust man.	254795
Plug, exhaust man.	254761	Thermostat	254920
Strap	254764	Orifice	254922
Belt, V	254782	Exchanger, heat	256935
Gasket, exhaust man.	254795	Bracket, tank	256943
Housing, thermostat	254810	Guard, belt	256944
Orifice	254922	Bracket, extension	256945
Plug	254949	Tank, expansion	256953

Series 1104 & 1105

Accessory Kit Components

NOTE: Accessory common hardware are not listed. Component quantity is 1 unless noted in () following component description.

Item Qty.	Description Variation(s)	Part No.	Item Qty.	Description Variation(s)	Part No.
	City Water Cooling Kit (continued)	256936			
	Manifold, exhaust	256979		Hose, 5/16 ID x 21-32 OD x 12	X-6251-1
	Tube, rad. outlet	256998		Nut, hex machine screw, 10-32	X-70-11
	Cap, pressure	258037		Plug, pipe 1/4 NPTF	X-75-51
	Pulley, water pump	260091		Hose, molded (.62 ID)	226364
	Regulator, water	290176		Hose, molded (.38 ID)	226365
	Guard, belt	326797		Gasket, intake manifold	246067
	Guard, belt	326798		Filter, fuel	249433
	Bushing, reducing (1/8 x 1 NPT)	AC-1459		Bracket, fuel pump	249902
	Flexible Fuel Line Kit (Gas)	PA-256869		Manifold, intake	249915
	Contact factory for kit components			Actuator, linear	249923
	Installation Instructions	TT-1025		Bracket, governor mounting	249949
	Flexible Fuel Line Kit (Gasoline)	PA-254976		Gasket, carburetor	249931
	Contact factory for kit components			Tee, hose	249979
	Installation Instructions	TT-1025		Throttle Lever Assembly	254979
	Flexible Fuel Line Kit	PA-272966		Elbow, 45 degree	267428
	Cap, pipe	X-268-8		Link, ball (2)	272456
	Cap, pipe	X-268-9		Yoke	273751
	Elbow, 7/8-14 x 1/2	X-447-8		Pump, fuel	278490
	Elbow, 5/8-18 x 3/8	X-447-9			
	Tie, cable	X-468-1		Dual Fuel Kit	226285
	Line, flex. fuel	274228		Carburetor Assembly	A-344520
	Line, flex. fuel	274738		Nut, hex elastic stop	X-101-12
	Gas Strainer Kit	PA-290275		Washer, lock, .262 ID x .469 OD	X-22-11
	Contact factory for kit components			Washer, lock, .20 ID x .403 OD	X-22-22
	Auxiliary Fuel Pump Kits	PA-247076		Elbow, street 3/8	X-274-6
	Contact factory for kit components			Hose, radiator	X-281-4
	Electric Fuel Pump Kit	PA-225208		Hose	X-312-44
	Fuel pump	247076		Hose, 5/8 I.D.	X-312-5
	Gasoline Fuel System Kit	254956		Stud	X-352-75
	PCB, Governor Assembly	A-249922		Connector, hose	X-391-2
	Carburetor Assembly	A-344520		Spacer 1-3/32 x 5/8 x 19/64 (2)	X-400-75
	Washer, lock, .198 ID x .334 OD	X-19-4		Clamp, hose	X-426-10
	Washer, lock, .262 x .469 OD	X-22-11		Clamp, hose 7/8 (2)	X-426-18
	Washer, lock, .20 ID x .403 OD	X-22-22		Clamp, hose 1/2	X-426-3
	Washer, plain, .203 ID x .438 OD	X-25-115		Clamp, hose 1-9/16	X-426-6
	Hose, radiator	X-281-32		Clamp, hose 5/8	X-426-9
	Hose, .63 ID	X-312-44		Terminal	X-431-38
	Hose, .63	X-312-5		Elbow, oil line	X-447-16
	Stud, 10-32 x 2-1/2	X-352-75		Cable tie, nylon	X-468-3
	Connector, hose + vibra seal	X-380-3		Screw, slotted pan head machine	X-50-1
	Connector, 90 deg (5/8 ID)	X-391-2		Screw, slotted pan head machine	X-50-2
	Spacer, 13/32 x 5/8 x 19/64 (2)	X-400-75		Screw, slotted pan head machine	X-50-56
	Clamp, hose, .5/1 in.	X-426-10		Adapter, pipe 1/4 x 1	X-509-1
	Clamp, 7/8 hose (2)	X-426-18		Connector, hose	X-582-2
	Clamp, hose, .56/1.06	X-426-3		Hose	X-6251-1
	Clamp, hose, 1.56/2.5	X-426-6		Plug, pipe	X-75-41
	Clamp, hose, .25/.70	X-426-9		Venturi, natural gas	226286
	Terminal (male)	X-431-38		Harness, wiring	226298
	Screw, slotted pan head	X-50-2		Bracket, switch	226300
	Screw, slotted pan head machine	X-50-70		Hose, molded	226364
	Adapter, pipe, 1/4 x 8	X-509-1		Hose, molded	226365
	Connector, hose + vibra seal	X-582-2		Line, flex. fuel	226378
	Nut, hex machine screw, 10-24	X-6234-6		Switch, toggle	241911
				Gasket, intake man.	246067
				Filter, fuel	249433
				Bracket, fuel pump	249902
				Manifold, intake	249915
				Gasket, carburetor	249931

Series 1104 & 1105

Accessory Kit Components

NOTE: Accessory common hardware are not listed. Component quantity is 1 unless noted in () following component description.

Description	Part No.	Description	Part No.
Dual Fuel Kit (continued)	226285	Lever Assembly, throw	254979
Bracket , governor mount	249949	Decal	256992
Tee, hose	249979	Elbow, 45 degree str	267428
Bracket, fuel valve	254851	Rod, end (2)	272456
Valve Assembly, gas	254859	Yoke	273751
Lever Assembly, throw	254979	Clamp, hose	276319
Decal	256992	Pump, fuel	278490
Elbow, 45 degree str	267428	Regulator, pressure	291259
Rod, end	272456		
Yoke	273751		
Clamp, hose	276319		
Pump, fuel	278490		
Regulator, pressure	291259		
Dual Fuel Kit	226296	Straight Gas Fuel System	254958
Carburetor Assembly	A-249914	Carburetor Assembly	A-254697
Bushing, reducer 3/8	X-202-23	Bushing, reducer 3/8	X-202-23
Elbow, street 3/8	X-274-6	Pipe, black iron	X-204-16
Hose, radiator	X-281-4	Nipple, pipe 3/8 x 1	X-204-9
Hose	X-312-44	Elbow, 3/8	X-215-9
Hose, 5/8 I.D.	X-312-5	Elbow, street 3/8	X-274-6
Stud	X-352-75	Stud, 5/16-18 x 1 (2)	X-352-37
Connector, hose 5/8	X-391-2	Stud, 10-32 x 2-1/2	X-352-75
Spacer, 13/32 x 5/8 x 19/64 (2)	X-400-75	Spacer, 7/32 x 1/2 x 41/64	X-400-178
Clamp, hose (2)	X-426-10	Line, fuel fuel 3/8 x 1	X-504-12
Clamp, hose 7/8 (2)	X-426-18	Hose, vacuum	246053
Clamp, hose 1/2 (4)	X-426-3	Gasket, carburetor	249931
Clamp, hose 1-9/16 (2)	X-426-6	Bracket, fuel valve	245851
Clamp, hose 5/8 (2)	X-426-9	Gas Valve Assembly	254859
Terminal	X-431-38	Adapter Sub-Assembly	254895
Elbow, 5/8-18 x 3/8	X-447-9	Gasket, exhaust flange	258024
Adapter, pipe 1/4 x 1	X-509-1	Link, ball (2)	272456
Connector, hose	X-582-2	Yoke	273751
Hose	X-6251-1	Regulator, pressure	291259
Plug, pipe	X-75-41		
Venturi, LP	226287	Straight Gas Fuel System	256950
Line, flex. fuel	226289	Carburetor Assembly	A-254697
Harness, wiring	226298	Elbow, street 3/8	X-274-6
Bracket, switch	226300	Hose	X-312-18
Hose, molded	226364	Stud, 5/16-18 x 1 (2)	X-352-37
Hose, molded	226365	Stud	X-352-79
Switch, toggle	241911	Spacer	X-400-178
Gasket, intake man.	246067	Clamp, hose (2)	X-426-10
Filter, fuel	249433	Clamp, hose 1/2 (2)	X-426-3
Bracket, fuel pump	249902	Clamp, hose 5/8 (2)	X-426-9
Manifold, intake	249915	Elbow, oil line	X-447-16
Gasket, carburetor	249931	Line, flex. fuel	225160
Bracket, governor mount	249949	Hose, molded	226362
Tee, hose	249979	Hose, molded	226363
Bracket, fuel valve	254851	Hose, vacuum	246053
Valve Assembly, gas	254859	Bracket, fuel valve	254851
		Valve Assembly, gas	254859
		Bracket, governor	256845
		Adapter, carburetor	256947

Series 1104 & 1105

Accessory Kit Components

NOTE: Accessory common hardware are not listed. Component quantity is 1 unless noted in () following component description.

Description	Part No.	Description	Part No.
Straight Gas Fuel System	226290	Air Cleaner Kit	256460
Carburetor Assembly	A-254697	Cleaner Assembly, air (includes element)	A-254767
Elbow, pipe 1/4	X-215-5	Element, air cleaner	A-258643
Nipple, pipe 1/4 x 1-1	X-220-6	Hose, radiator	X-281-4
Elbow, street 3/8	X-274-6	Hose, 5/8 I.D.	X-312-5
Hose, 5/8 I.D. x 31-1	X-312-15	Bracket, lifting	249445
Hose, rubber 5/8 x 49	X-312-37	Clamp, hose (4)	250081
Stud, 5/16-18 x 1 (2)	X-352-37	Support, air cleaner	256456
Stud	X-352-79	Hose, air cleaner	256458
Connector, hose (2)	X-391-2	Band, mounting (2)	258708
Spacer	X-400-178	Connector, hose	276216
Clamp, hose (2)	X-426-10		
Clamp, hose 1/2 (4)	X-426-3	12-Volt Equalize/Float Battery Charger Kit	PAA-292862
Clamp, hose 5/8 (2)	X-426-9	Battery Charger Assembly	A-292862
Elbow	X-447-17	Board, circuit	C-262377
Plug, pipe 3/8	X-75-10	Terminal, ring (4-6 screw) (2)	X-283-1
Plug, pipe 1/2	X-75-3	Terminal, ring (8-10 screw) (2)	X-283-11
Tube, rad. outlet	226282	Terminal, ring (6-8 screw) (3)	X-283-2
Hose, molded	226362	Tubing, heat shrink (2)	X-6081-3
Hose, molded	226363	Transformer	262388
Line, flex. fuel	226379	Fuse, 25 Amp	262389
Hose, vacuum	246053	Holder, fuse (2)	263156
Solenoid Assembly	256449	Spacer, circuit board (4)	287948
Bracket, governor	256845	Lamp	291208
Bracket, converter	256888	Decal, explosion "battery gases"	292387
Converter	256903	Decal, explosion "sparks"	292469
Adapter, carburetor	256947	Sink, heat	292938
Gasket, intake man.	256948	Strip, terminal	292940
Rod, end (2)	272456	Ammeter, DC	292941
Yoke	273751	Voltmeter, DC	292942
		Panel, silkscreened	292944
Air Cleaner Kit	256459	Module, SCR	292945
Cleaner Assembly (includes element)	A-254767	Resistor, power	292947
Element, air cleaner	A-258643	Fuse, 7 Amp.	292948
Hose, radiator	X-281-4	Harness, wiring	292958
Hose, 5/8 I.D.	X-312-5	Nameplate, 12-Volt	292959
Bracket, lifting	249445	Marker, strip	292961
Clamp, hose (4)	250081	Marker, strip	292962
Support, air cleaner	256456	Box, battery charger	292974
Hose, air cleaner	256457	Decal, UL	292975
Band, mounting (2)	258708	Retainer	295010
Connector, hose	276216	Block, terminal	295314
		Nut, captive (4)	298810

Series 1104 & 1105

Accessory Kit Components

NOTE: Accessory common hardware are not listed. Component quantity is 1 unless noted in () following component description.

Description	Part No.	Description	Part No.
12-Volt Equalizer/Float Battery Charger Kit (with alarms)	PAA-292863	12-Volt Trickle Charger Kit (continued)	PAA-248952
Battery Charger Assembly	A-292863	Cable, positive	291215
Board, alarm circuit	B-262374	Cable, negative	291216
Board, control circuit	C-262377	Nameplate, front	291220
Terminal, ring 4-6 screw (2)	X-283-1	Nameplate, part no.	291221
Terminal, ring 8-10 screw (2)	X-283-11	Breaker, circuit	291265
Terminal, ring 6-8 screw (2)	X-283-2	Rheostat	291975
Terminal, (receptacle and tab) (2)	X-431-23		
Tubing, heat shrink (2)	X-6081-3	Battery Cable Kit	PA-254988
Transformer	262388	Cable, battery (red)	X-545-31
Fuse, 25 Amp.	262389	Cable, battery (black)	244095
Holder, fuse (2)	263156	Battery Rack Kit (Single-Phase/RV)	PA-254883 and 254883
Spacer, circuit board (8)	287948	Cable, battery (red)	X-545-55
Lamp	291208	Cable, battery (black)	X-545-82
Decal, explosion "battery gas"	292387	Bracket, hold-down	238725
Decal, explosion "sparks"	292469	Boot	238915
Sink, heat	292938	Bolt, angle (2)	253307
Strip, terminal	292940	Decal, warning "explosion"	273780
Ammeter, DC	292941		
Voltmeter, DC	292942	Battery Rack Kit (Three-Phase/RZ)	PA-254884 and 254884
Panel, silkscreened	292944	Cable, battery (red)	X-545-81
Module, SCR	292945	Cable, battery (black)	X-545-82
Resistor, power	292947	Bracket, hold-down	238725
Fuse	292948	Boot	238915
Harness, wiring	292958	Bolt, angle (2)	253307
Marker, strip	292961	Rack, battery	254850
Marker, strip	292962	Decal, warning "explosion"	273780
Nameplate	292971		
Box, battery charger	292974	12-Volt Battery Kit	PA-239102
Decal, UL	292975	Battery	239102
Retainer	295010	Battery Kit	PA-253357
Block, terminal	295314	Battery	291918
Nut, captive (4)	298810	Stud, conversion	254427
		Block Heater Kit (110-120-volt)	PA-254968 and 254968
12-Volt Trickle Charger Kit	PAA-248952	Heater, block	226265*
Battery Charger Assembly	A-248952	Eye, lifting	254967
Terminal	X-283-8	*226265 Replaces the old style wet exhaust manifold that lacks the two threaded bosses.	
Block, terminal (2)	X-405-2	Block Heater Kit	256839
Terminal, female	X-431-27	Clamp, hose 1/2 (2)	X-426-3
Terminal, female (9)	X-431-28	Plug, pipe	X-75-42
Connector, non-metallic (2)	X-567-1	Heater, block	254987
Screw, drill (4)	X-794-2		
Holder, fuse	238426	Block Heater Kit	PA-256839
Cord, power	246185	Clamp, hose 1/2 (2)	X-426-3
Cover, battery charger	246604	Heater, block	254987
Box, battery charger	248951		
Ammeter, DC	269202	Block Heater Kit (190-240-volt)	PA-254970 and 254970
Transformer	269204	Contact factory for kit components	
Spacer, screen (4)	270833		
Fuse, 1.5 Amp.	291207	Heat Recovery Fitting Kit	PA-254921 and 254921
Lamp	291208	Housing Assembly	A-241576
Resistor	291209	Clamp, hose (3)	X-426-4
Switch, "High/Low" slide	291210	Hose, inlet	254915
Switch, "12/24-Volt" slide	291211	Hose, outlet	254916
Rectifier, silicon	291212	Tube, radiator inlet	254917
Resistor	291213	Tube, radiator outlet	254918
		Thermostat	254920

Series 1104 & 1105

Accessory Kit Components

NOTE: Accessory common hardware are not listed. Component quantity is 1 unless noted in () following component description.

Description	Part No.	Description	Part No.
Weather Housing Kit (Three-Phase/RZ)	PA-254746 and 254746	Plug, plastic (10)	253723
Screw, phil hex crim (13)	X-6216-1	Shroud, rear housing	254739
Decal, stripes (2)	X-6232-1	Roof, housing	254740
Decal, "Kohler Power Systems" (2)	X-6246-3	Panel, housing	254741
Plug (2)	253268	Door, housing (4)	254742
Latch (5)	253373	Door, rear housing	254744
Plug, plastic (10)	253723	Rail, extension	254862
Shroud, rear housing	254739	Bracket, extension (2)	254863
Roof, housing	254740	Bracket, water bottle	254919
Panel, housing (2)	254741	Bracket, housing support (left)	273976
Door, housing (4)	254742	Bracket, housing support (right)	2373977
Door, rear housing	254744	Screw, flat head machine (60)	295098
Bracket, water bottle	254919	Hinge, split (4)	297600
Bracket, housing support (left)	273976	Hinge, split (6)	297601
Bracket, housing support (right)	273977		
Screw, flat head machine (60)	295098	Oil Drain Kit	PA-254747 and 254747
Hinge, split (4)	297600	Clamp, 5/8 hose (2)	X-426-9
Hinge, split (6)	297601	Hose, rubber 3/8	X-651-3
		Plug, drain	241062
Weather Housing Kit	PA-256837 and 256837	Gasket, drain plug	241063
Button, plug (2)	X-301-24	Valve, oil drain	249437
Retainer, nut (31)	X-6204-3	Adapter	254720
Screw, phil hex crim (13)	X-6216-1		
Decal, stripes (2)	X-6232-1	Flexible Exhaust Connection Kit	PA-254973
Decal (2)	X-6246-6	Coupling, pipe 1-1/2 x 2-1/16 x 2-3/16	X-216-21
Screw, drill hex. (4)	X-794-1	Bushing, 2-1/16 x 1-1/4 x 1-1/2 NPT	153016
Plug (2)	253268	Connector, exhaust	254972
Latch (5)	253373		
Plug, plastic (10)	253723	Critical/Industrial Silencer Mounting Kit	PA-254965 and 254965
Rail, extension (2)	254862	Pipe, 1-1/4 NPTF x 6	X-210-20
Bracket, extension rail (2)	254863	Pipe, 1-1/4 NPTF x 15	X-210-21
Bracket, water bottle	254919	Elbow, pipe 1-1/4	X-215-14
Door, housing (2)	256451	Coupling, pipe 1-1/4	X-216-22
Door, rear housing	256455	U-Bolt	X-397-3
Shroud, radiator	256830	Elbow, 90 degree	151771
Shroud, rear housing	256833	Bushing, 2-1/16 x 1-1/4 x 1-1/2	153016
Roof, housing	256834	Bracket, silencer (lower)	254962
Panel, housing (2)	256835	Bracket, silencer (upper)	254963
Door, housing (2)	256836		
Bracket, housing sup.	273976	Critical/Industrial Silencer Kit (Engine Mount)	PA-254964 and 254964
Bracket, housing sup.	273977	Bushing, reducer	X-202-48
Hinge, split (4)	297600	Pipe	X-210-25
Hinge, split (6)	297601	Pipe	X-210-26
		Elbow, pipe	X-215-20
Weather Housing Kit (Single-Phase/RV Sets)	PA-254870 and 254870	Elbow, 90 degree	X-215-21
Screw, phil hex crim (13)	X-6216-1	Coupling, pipe 1-1/4	X-216-22
Decal, stripes (2)	X-6232-1	U-Bolt	X-397-3
Decal, "Kohler Power Systems" (2)	X-6246-3	Silencer	150213
Plug (2)	253268	Bracket, silencer (lower)	254962
Latch (5)	253373	Bracket, silencer (upper)	254963

Series 1104 & 1105

Accessory Kit Components

NOTE: Accessory common hardware are not listed. Component quantity is 1 unless noted in () following component description.

Description	Part No.	Description	Part No.
Critical/Industrial Silencer (End In/End Out)	PA-150213 and 150213	Weather Housing Kit (Single-Phase/RV Sets)	PA-254870 and 254870
Consult factory for kit components		Screw, phil hex crim (13)	X-6216-1
Tail Pipe and Rain Cap Kit	PA-256851 and 256851	Decal, stripes (2)	X-6232-1
Contact factory for kit components		Decal, "Kohler Power Systems" (2)	X-6246-3
Weather Housing Kit (Three-Phase/RZ)	PA-254746 and 254746	Plug (2)	253268
Screw, phil hex crim (13)	X-6216-1	Latch (5)	253373
Decal, stripes (2)	X-6232-1	Plug, plastic (10)	253723
Decal, "Kohler Power Systems" (2)	X-6246-3	Shroud, rear housing	254739
Plug (2)	253268	Roof, housing	254740
Latch (5)	253373	Panel, housing	254741
Plug, plastic (10)	253723	Door, housing (4)	254742
Shroud, rear housing	254739	Door, rear housing	254744
Roof, housing	254740	Rail, extension	254862
Panel, housing (2)	254741	Bracket, extension (2)	254863
Door, housing (4)	254742	Bracket, water bottle	254919
Door, rear housing	254744	Bracket, housing support (left)	273976
Bracket, water bottle	254919	Bracket, housing support (right)	2373977
Bracket, housing support (left)	273976	Screw, flat head machine (60)	295098
Bracket, housing support (right)	273977	Hinge, split (4)	297600
Screw, flat head machine (60)	295098	Hinge, split (6)	297601
Hinge, split (4)	297600	Line Circuit Breaker Kit	PA-254727 and 254727
Hinge, split (6)	297601	Breaker, 40 Amp. circuit	249478
Weather Housing Kit	PA-256837 and 256837	Panel, regulator mounting	254725
Button, plug (2)	X-301-24	Line Circuit Breaker Kit	PA-254728 and 254728
Retainer, nut (31)	X-6204-3	Breaker, 50 Amp. circuit	249479
Screw, phil hex crim (13)	X-6216-1	Panel, regulator mounting	254725
Decal, stripes (2)	X-6232-1	Line Circuit Breaker Kit	PA-254729 and 254729
Decal (2)	X-6246-6	Breaker, 15 Amp. circuit	250575
Screw, drill hex. (4)	X-794-1	Panel, regulator mounting	254726
Plug (2)	253268	Line Circuit Breaker Kit	PA-254730 and 254730
Latch (5)	253373	Breaker, 20 Amp. circuit	269251
Plug, plastic (10)	253723	Panel, regulator mounting	254726
Rail, extension (2)	254862	Line Circuit Breaker Kit	PA-254731 and 254731
Bracket, extension rail (2)	254863	Breaker, 30 Amp. circuit	269250
Bracket, water bottle	254919	Panel, regulator mounting	254724
Door, housing (2)	256451	Line Circuit Breaker Kit	PA-254732 and 254732
Door, rear housing	256455	Breaker, 40 Amp. circuit	269252
Shroud, radiator	256830	Panel, regulator mounting	254726
Shroud, rear housing	256833	Line Circuit Breaker Kit	PA-254733 and 254733
Roof, housing	256834	Breaker, 50 Amp. circuit	269249
Panel, housing (2)	256835	Panel, regulator mounting	254726
Door, housing (2)	256836	Line Circuit Breaker Kit	PA-254876 and 254876
Bracket, housing sup.	273976	Contact factory for kit components	
Bracket, housing sup.	273977		
Hinge, split (4)	297600		
Hinge, split (6)	297601		

Series 1104 & 1105

Accessory Kit Components

NOTE: Accessory common hardware are not listed. Component quantity is 1 unless noted in () following component description.

Description	Part No.	Description	Part No.
Load Connection Kit (Single-Phase/RV)	PA-254881 and 254881	Nipple, pipe 11/2 x 21	151803
Insulator, panel (2)	233269	Liner, reflective (2)	226262
Stud, brass (2)	237612	Liner, reflective (4)	226263
Load Connection Kit (Three-Phase/RZ)	PA-254882 and 254882	Adapter, exhaust	226264
Insulator, panel (3)	233269	Connector, exhaust	226281
Stud, brass (3)	237612	Rail, extension (2)	254862
Strip Heater Kit	256892	Bracket, extension rail (2)	254863
Heater, strip	256890	Bracket, silencer	254962
Bracket	256891	Bracket	256828
Lifting Eye Kit	PA-256912 and 256912	Muffler	256889
Nut, hex. stop (8)	X-101-23	Bracket, silencer	256897
Grommet 1/2 x 13/16	X-284-15	Cover, skid end (2)	256956
Stud (2)	X-352-78	Sound Shield Kit	PA-256827 and 256827
Nut, eye	256906	Guard Assembly, exhaust	A-226275
Bracket, lifting	256911	Shield Assembly, sou	A-256822
Decal, caution	256933	Elbow, street	EH-2226
Lifting Eye Kit	PA-256913 and 256913	Pipe	X-205-11
Nut, hex. stop (8)	X-101-23	Pipe	X-210-10
Grommet 1/2 x 13/16 (2)	X-284-15	Pipe	X-210-23
Stud (2)	X-352-78	Nipple 1-1/4 x 2	X-210-3
Nut, eye	256906	Coupling, pipe (2)	X-216-21
Bracket, lifting	256910	Coupling, pipe (2)	X-216-22
Decal, caution	256933	Nipple, pipe	X-224-1
Sound Shield Kit	PA-256826 and 256826	Elbow, 45 degree (2)	X-225-1
Guard Assembly, exhaust	A-226275	Bolt, U	X-397-3
Shield Assembly	A-256815	Clamp, hose 1-9/16 x 2 (4)	X-426-6
Elbow, street	EH-2226	Screw, drill hex. (3)	X-794-1
Pipe	X-205-11	Elbow, 90 degrees	151771
Pipe	X-210-10	Nipple, pipe 1-1/2 x 21	151803
Pipe	X-210-23	Liner, reflective (2)	226262
Nipple 1-1/4 x 2	X-210-3	Liner, reflective (4)	226263
Coupling, pipe (2)	X-216-21	Adapter, exhaust	226264
Coupling, pipe (2)	X-216-22	Connector, exhaust	226281
Nipple, pipe	X-224-1	Rail, extension (2)	254862
Elbow, 45 degree (2)	X-225-1	Bracket, extension rail (2)	254863
Bolt, U	X-397-3	Bracket, silencer spt	254962
Clamp, hose 1-9/16 (4)	X-426-6	Bracket	256828
Screw, drill hex. (3)	X-794-1	Muffler	256889
Elbow, 90 degrees	151771	Bracket, silencer su	256897
		Cover, skid end (2)	256956

Series 1104 & 1105

Accessory Kit Components

NOTE: Accessory common hardware are not listed. Component quantity is 1 unless noted in () following component description.

Description	Part No.	Description	Part No.
Sound Shield Kit	PA-256874 and 256874		
Guard Assembly, exhaust	A-226275	Coupling, pipe (2)	X-216-22
Shield Assembly	A-256815	Nipple, pipe	X-224-1
Elbow, street	EH-2226	Elbow, 45 degree (2)	X-225-1
Pipe	X-205-11	Bolt, U	X-397-3
Pipe	X-210-10	Clamp, hose 1-9/16 x 2 (4)	X-426-6
Pipe	X-210-23	Screw, drill hex. (3)	X-794-1
Nipple 1-1/4 x 2	X-210-3	Elbow, 90 degrees	151771
Coupling, pipe (2)	X-216-21	Nipple, pipe 11/2 x 21	151803
Coupling, pipe (2)	X-216-22	Liner, reflective	226262
Nipple, pipe	X-224-1	Liner, reflective	226263
Elbow, 45 degree (2)	X-225-1	Adapter, exhaust	226264
Bolt, U	X-397-3	Connector, exhaust	226281
Clamp, hose 1-9/16 (4)	X-426-6	Bracket, silencer spt	254962
Screw, drill hex. (3)	X-794-1	Bracket	256828
Elbow, 90 degrees	151771	Muffler	256889
Nipple, pipe 11/2 x 21	151803	Bracket, silencer spt	256897
Liner, reflective (2)	226262	Cover, skid end (2)	256956
Liner, reflective (4)	226263		
Adapter, exhaust	226264	Rodent Guard Kit 1pH	256930
Connector, exhaust	226281	Spacer	X-400-184
Bracket, silencer spt	254962	Screw, self tapping	X-67-129
Bracket	256828	Screw, hex. hd. 10-24	X-67-51
Muffler	256889	Guard, rodent plate	229891
Bracket, silencer spt	256897	Guard, rodent	229892
Cover, skid end (2)	256956	Clip, speed	257442
Sound Shield Kit	PA-256875 and 256875	Rodent Guard Kit 3pH	256931
Guard Assembly, exhaust	A-226275	Washer, plain	X-25-119
Shield Assembly	A-256822	Spacer	X-400-194
Elbow, street	EH-2226	Screw, self tapping	X-67-129
Pipe	X-205-11	Screw, hex. hd. 10-24	X-67-51
Pipe	X-210-10	Guard, rodent plate	229891
Pipe	X-210-23	Guard, rodent	229892
Nipple 1-1/4 x 2	X-210-3	Screen, louver	256902
Coupling, pipe (2)	X-216-21	Clip, speed	257442

NOTES

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