

Service Parts

Industrial Generator Sets



Models:

600–2000REOZMB

750–2000REOZMD

See Group 701: Literature, inside this manual for
part numbers of engine parts catalogs

Routine Engine Service Parts

Figure 1 identifies routine engine service parts for generator set engines listed in this manual.

Refer to the groups on the following pages and the engine service parts manuals for a complete list of maintenance and service parts.

Description	Part Number (Quantity per Engine)					
	600 kW	750/800 kW	900/1000 kW	1250 kW	1600 kW	1750/2000 kW
Oil Filter	GM13949 (2)	GM32057 (4)	GM13942 (4)	GM13949 (4)	GM38852 (4)	GM38852 (4)
Oil Filter (bypass)	GM13950 (1)	GM13950 (1)	GM13943 (1)	GM13950 (1)	GM13950 (1)	GM13950 (1)
Fuel Filter (primary)	GM13947 (2)	-	GM13947 (4)	GM13947 (4)	GM13947 (4)	GM13947 (4)
Fuel Filter (secondary)	-	GM36914 (1)	-	-	-	-
Belt (alternator)	GM55484 (1)	GM36962 (1)	GM55488 (1)	GM21917 (1)	GM21917 (1)	GM21917 (1)
Belt (water pump)	GM55485 (1)	GM35975 (1)	-	-	-	-
Belt (intercooler pump)	GM55486 (1)	GM55487 (1)	GM55488 (1)	GM55490 (1), GM55491 (1)	GM55490 (1), GM55491 (1)	GM55490 (1), GM55491 (1)
Belt (fan drive)	-	GM36598 (1)	GM55489 (1)	See Group 104	See Group 104	See Group 104

Figure 1 Routine Engine Service Parts

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Introduction

This manual lists service replacement parts for 600-2000REOZMB/750-2000REOZMD generator sets.

At the time of print this manual applied to the generator set specification (spec) numbers listed in the Specification Number Index. On occasion this manual may apply to specs not listed in the Specification Number Index.

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This manual includes the following main sections:

Table of Contents. Lists the sections of the manual.

Introduction (and other information sections). Contains introductory material about part numbers, illustrations, and hardware.

Specification Number Index. Lists the generator set specs and groups.

Group Parts Lists. List the part numbers of parts in the groups.

Kit Sections. List modules and accessories and their parts.

Appendices. Include Abbreviations, Common Hardware Application Guidelines, General Torque Specifications, Common Hardware Identification, and Common Hardware List.

Numbering System Significance

This manual uses the following numbering systems:

Specification Number. The product identification number located on the generator set nameplate. Spec numbers break down into groups.

Group Number. A unique number representing a parts group needed to assemble a generator set function. For example, Group 101 is the Air Intake group.

Variation or Module Number. A group might have several variations. Each variation performs the same function with different parts lists. For example, a 50 Hz generator alternator and a 60 Hz generator alternator both perform the same function; however, with different parts. Each difference requires a group variation or module number.

Part Number. The part number identifies an individual assembly, subassembly, component, or accessory kit.

Illustrations

Illustrations (or exploded-view drawings) best representing the widest range of variations accompany most groups in this manual. Illustrations do not depict all details and may not show all parts. Do not use illustrations for assembly or disassembly.

How to Find Part Numbers

Use the following steps to locate a service replacement part.

1. Locate the generator set nameplate to **identify the generator set spec number**.
2. Locate a second generator set nameplate listing accessories to **identify installed modules**. On some models the accessory nameplate is mounted inside the generator junction box.
3. **Turn to the Specification Number Index.** The first column lists the generator set spec numbers. The headings identify the groups of parts that make up the generator set.
4. **Identify the group** most likely to include the service part number.
5. **Find the group variation number** at the intersection of the spec number row and the group column. Note the variation number.
6. **Page forward to locate the group** identified in step 4 or find the appropriate page in the Table of Contents.
7. **Find the part on the illustration** and note the item number of the part or **find the part description in the parts list**.
8. Select **the part number that corresponds to your group variation**. The first column lists the illustration item number. Find the variation identified in the Specification Number Index or the module number found on the generator set nameplate in the appropriate column on the right side of the parts list table. Find the quantity used at the intersection of the item number row and the variation column. A blank space at the intersection means the variation/module does not use that part number.

Hardware References

Many common hardware items do not appear in parts manuals or will appear as common hardware entries. A common hardware entry lists the size of the hardware. For example, an item that appears as "Hardware, 3/8-16" in the text means that the piece is 3/8-16 size. Obtain common hardware locally or, if contacting the factory, use the Common Hardware List in the appendix to identify the common hardware part number and specifications. See Common Hardware Application Guidelines in the appendix for mating hardware instructions.

Some hardware items require a specific size or some other characteristic. In that case, use the part number listed in the text.

When replacing hardware, do not substitute inferior grade hardware. Replacement hardware grade should be equal to or better than the grade of the manufacturer's original hardware. Use the Common Hardware List in the appendix to identify the common hardware hardness.

Specification Number Index

Group Title	Air Intake	Cooling System	Engine	Nameplates and Decals	Skid and Plant Mounting	Generator and Mounting	Controller and Mounting	Literature
Group No.	101	104	105	107	109	201	301	701
Spec No.	Variation Number							
600REOZMB								
GM50709-GA1	*	*	1	1	*	*	†	241
750REOZMB								
GM31728-GA6	*	*	2	1	*	*	†	242
800REOZMB								
GM31728-GA5	*	*	2	1	*	*	†	243
900REOZMB								
GM31223-GA5	*	*	3	2	*	*	†	244
1000REOZMB								
GM31223-GA6	*	*	3	2	*	*	†	245
1250REOZMB								
GM19661-GA6	*	*	4	2	*	*	†	246
1600REOZMB								
GM19661-GA5	*	*	5	2	*	*	†	247
1750REOZMB								
GM19661-GA8	*	*	6	2	*	*	†	248
2000REOZMB								
GM19661-GA7	*	*	6	2	*	*	†	249

* Configured group. Refer to the generator set nameplate for the module number.
Turn to the respective group on the following pages for parts breakdowns.

† Configured group. Refer to the generator set nameplate for the module number.
See controller parts catalog for controller parts lists.

Specification Number Index

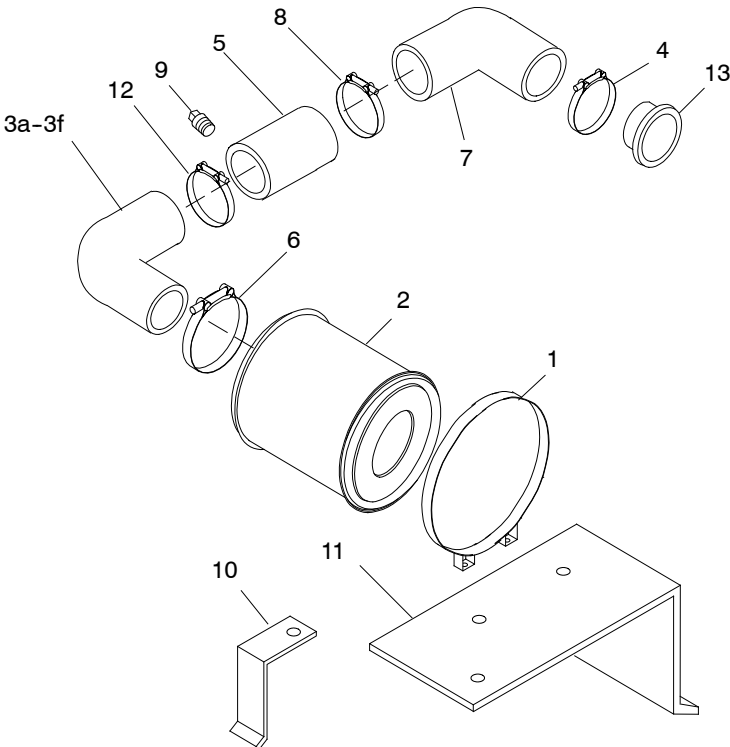
Group Title	Air Intake	Cooling System	Engine	Nameplates and Decals	Skid and Plant Mounting	Generator and Mounting	Controller and Mounting	Literature
Group No.	101	104	105	107	109	201	301	701
Spec No.	Variation Number							
750REOZMD								
GM81540-GA9	*	*	2	3	*	*	†	297
800REOZMD								
GM81540-GA10	*	*	2	3	*	*	†	298
900REOZMD								
GM81540-GA11	*	*	3	3	*	*	†	299
1000REOZMD								
GM81540-GA12	*	*	3	3	*	*	†	300
1250REOZMD								
GM80624-GA9	*	*	4	3	*	*	†	287
1600REOZMD								
GM80624-GA10	*	*	5	3	*	*	†	288
1750REOZMD								
GM80624-GA11	*	*	6	3	*	*	†	289
2000REOZMD								
GM80624-GA12	*	*	6	3	*	*	†	290

* Configured group. Refer to the generator set nameplate for the module number.
Turn to the respective group on the following pages for parts breakdowns.

† Configured group. Refer to the generator set nameplate for the module number.
See controller parts catalog for controller parts lists.

Group 101: Air Intake

600-1000 kW



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Group 101: Air Intake

600-1000 kW

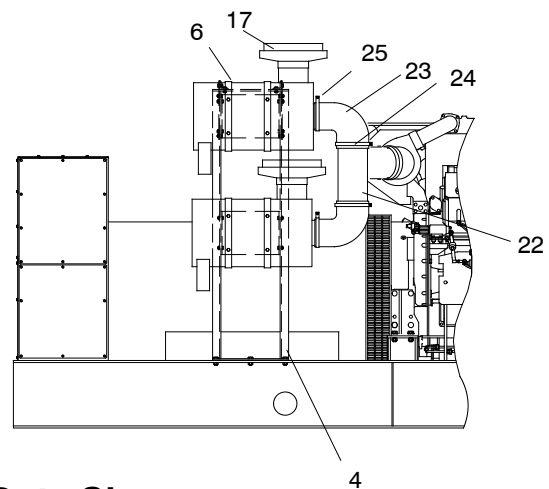
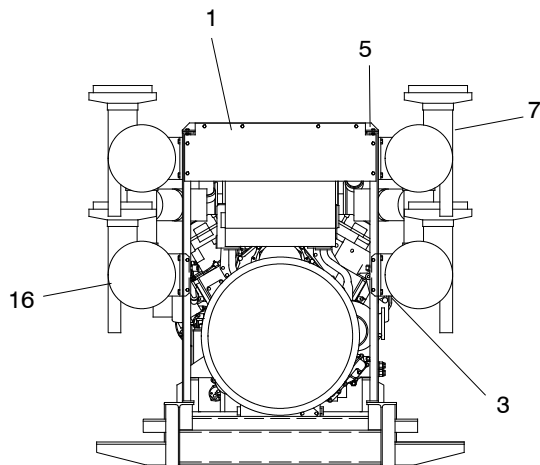
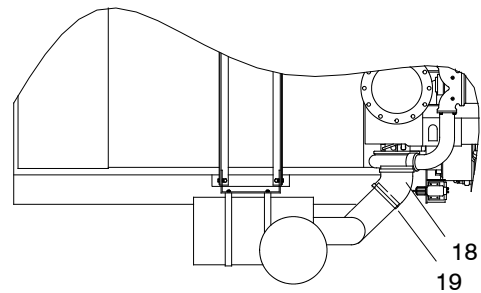
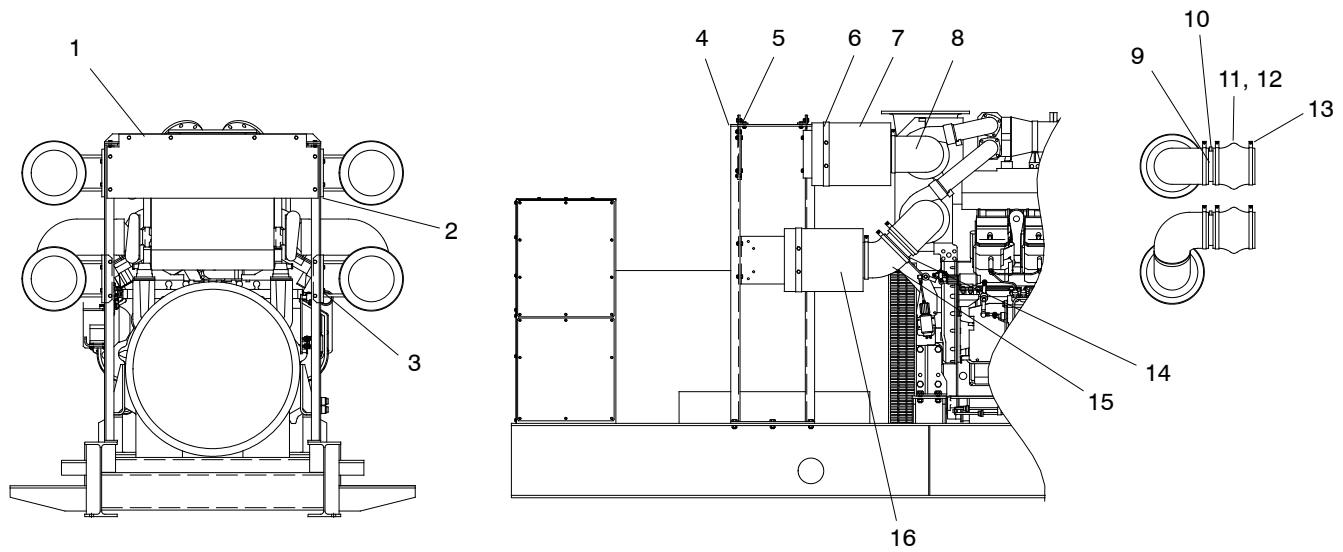
Item	Part Number	Description	Quantity							
			Module							
			GM30609-MA1	GM30610-MA1	GM31227-MA1	GM31734-MA1	GM31734-MA2	GM39625-MA1	GM51366-MA1	GM51330-MA1
1	272983	Clamp	1		2	2	2			4
1	279715	Mount, air cleaner		2				4	4	
2	354842	Air cleaner, industrial	1							2
2	272981	Air cleaner, industrial			2	2				
2	274821	Air cleaner, industrial					2			
2	A-279714	Air cleaner		1				2	2	
2	279738	Element, air cleaner, heavy-duty		1				2	2	
2	279739	Element, air cleaner, inner		1				2	2	
2	279722	Cap, rain (not shown)		1				2	2	
3a	272663	Hose, elbow, 90°, molded, 7 in. ID			2	2	2		2	2
3a	279716	Hose, elbow, 90°, 8 x 7 in. ID		1				2		
3b	X-522-95	Tube, steel, 177.8 OD x 165 long (not shown)							2	
3c	279720	Hose, hump, straight, 7 in. ID (not shown)							2	
3d	279743	Clamp, hose, 8.38/8.69 in. (not shown)							2	
3e	GM16083	Hose, hump, 7 in. ID (not shown)	1	1						
3f	343587	Clamp, hose, 7.38/7.69 in. (not shown)	2	2					2	
4	272960	Clamp, hose, 6.56/6.87 in.				2	2			
4	280998	Clamp, hose, 7.5/7.81 in.			2			2	2	2
5	361278	Tube assembly			2		2			2
5	GM10757	Tube assembly							2	
5	279754	Tube assembly				2				
5	X-522-96	Tube, steel		1						
5	354236	Tube, air restriction, 7 in. OD x 7.5 in.						2		
6	280998	Clamp, hose, 7.5/7.81 in.			2				2	2
6	279482	Clamp, hose, 7.69/8 in.				2	2			
6	279717	Clamp, hose, 8.63/8.94 in.		1				2		
7	GM23198	Hose, 90° reducer, 7 in. to 6 in.			2	2	2		2	2
7	291678	Hose, 90° elbow, 7.00 in. ID						2		
8	254013	Clamp, hose, 6.25/6.56 in.			2				2	
8	279482	Clamp, hose, 7.69/8 in.				2	2			
8	280998	Clamp, hose, 7.5/7.81 in.						2		
8	272960	Clamp, hose, 6.56/6.87 in.								2
9	X-268-7	Cap, pipe			2	2	2	2	2	2
10a	GM10519**	Bracket, air cleaner			2					3
10b	GM60498**	Bracket								1
10c	GM51323**	Bracket, air cleaner								4
10d	X-400-198	Spacer, .437 ID x .875 OD x .25 in. (not shown)								2
10e	GM39406	Bracket, air cleaner, heavy-duty							2	
11a	GM10518	Bracket, air cleaner			2	2	2			
11b	GM33099**	Plate, air cleaner				2	2			
11c	GM11699**	Plate, air cleaner			2					4
11a	GM11994	Bracket, air cleaner	1							
11a	GM51367	Bracket, air cleaner, heavy-duty							2	
11a	GM12034	Bracket, air cleaner, heavy-duty		1						
11a	GM33097	Bracket, air cleaner, heavy-duty (not shown)						2		
11f	GM39649	Bracket, air cleaner, heavy-duty (not shown)						2		
12	272960	Clamp, hose, 6.56/6.87 in.			2				2	2
12	280998	Clamp, hose, 7.5/7.81 in.		1						
12	279482	Clamp, hose, 7.69/8 in.						2		
13	GM16748	Insert, reducer, 7 in. to 6.25 in.			2	2	2	2	2	2

** Use the Kit number and chart below to identify the color suffix.
Add a suffix to this color dependent part number before ordering.

Module No.	Color Dependent Parts	
	Part Number Suffix	Part Number Example (item 10a)
GM31734-MA2-BLK	-BLK	GM33099-BLK
GM51330-MA1-BLK	-BLK	GM10519-BLK
GM51330-MA1-BLK	-BLK	GM60498-BLK
GM51330-MA1-BLK	-BLK	GM51323-BLK
GM51330-MA1-BLK	-BLK	GM11699-BLK

Group 101: Air Intake, continued

1250-2000 kW



1250 kW Heavy-Duty Shown

6057_101

Group 101: Air Intake, continued

1250-2000 kW

Item	Part Number	Description	Quantity								
			Module								
			GM16714-MA1	GM16714-MA2	GM16761-MA1	GM32743-MA1	GM32744-MA1	GM40747-MA1	GM40747-MA2	GM40748-MA1	GM39472-MA1
1	GM16694	Plate, air cleaner support	2	2	2	2	2	2	2	2	2
2	GM18403	Bracket, air cleaner	2	2							
3	GM16693	Bracket, air cleaner	2	2	2	4	4	4	4	4	4
4	GM16709	Support, air cleaner	2	2	2	2	2	2	2	2	2
5	GM16712	Support, air cleaner, top	2	2	2	2	2	2	2	2	2
6	272983	Clamp, air cleaner	4	4		4		4	4		
6	291666	Mount, air cleaner 16" ID								8	8
6	291666	Bracket, air cleaner			8		8				
7	272981	Air cleaner, industrial	2			2		2			
7	354842	Air Cleaner		2					2		
7	A-279713	Air cleaner (Use Service Kit. See note below.)			2		2			2	2
7	279736	Element, air cleaner			2		2			2	2
7	279737	Element, air cleaner (secondary)			2		2			2	2
8	291678	Hose, 90° elbow, 7 in. x 7 in. ID	4	4				4	4		
8	GM16760	Hose, hump, 152.4 mm ID			2						2
8	272627	Hose, 90° elbow, 6 in. x 6 in. ID			4						4
8	X-522-59	Tube, steel			2						2
9	274664	Tube assembly	4	4							
9	274623	Tube assembly			4						2
9	279754	Tube assembly									2
9	GM40732	Tube, intake						2	2		
10	X-75-1	Plug, pipe, 1/8 in. NPT	4	4							
10	X-268-1	Cap, pipe, 1/8 in. NPT			4						4
11	291679	Hose, hump, 7 in. ID	4	4							
11	279744	Hose, hump, 7 in. to 6 in. ID			4						4
11	GM40731	Hose, straight air (7" ID)						2	2	2	4
12	GM16748	Insert, hose insert	4	4	4			2	2	2	4
13	280998	Clamp, hose, 7.5/7.81 in.	20	20	4			12	12		4
13	254013	Clamp, hose, 6.25/6.56 in.			20						20
14	X-522-66	Tube, steel	2	2							
14	X-522-86	Tube, steel, 6 in. OD x 12 in.			2						2
15	347958	Hose, elbow, molded, 7 in. ID	2	2							
15	347806	Hose, elbow, molded, 6 in. ID			2						2
16	272981	Air cleaner, industrial	2			2		2			
16	354842	Air Cleaner		2					2		
16	A-354106	Air cleaner			2		2				
16	279736	Element, air cleaner			2		2				
16	A-279713	Air cleaner (Use Service Kit. See note below.)								2	2
16	279736	Element, air cleaner								2	2
16	279737	Element, air cleaner (secondary)								2	2
17	272674	Cap, rain			4		4			4	4
18	347806	Hose, elbow, molded, 6 in. ID					2				
18	347958	Hose, 45 deg. elbow, 7 in. ID				2					
18	GM40731	Hose, straight air (7 in. ID)								2	
19	280998	Clamp, hose, 7.5/7.81 in.				4	4				
22	GM32762	Tube, intake				2	2				
22	GM40733	Tube, intake (RS)								1	
22	GM40734	Tube, intake (LS)								1	
23	291678	Hose, 90° elbow, 7 in. x 7 in. ID				4					
23	272627	Hose, 90° elbow, 6 in. x 6 in. ID					4				
23	272663	Hose, 90° deg. reducer (7-6 in. ID)								4	
24	280998	Clamp, hose, 7.5/7.81 in.				4				4	
24	254013	Clamp, hose, 6.25/6.56 in.					4			4	
25	280998	Clamp, hose, 7.5/7.81 in.				4	4			4	

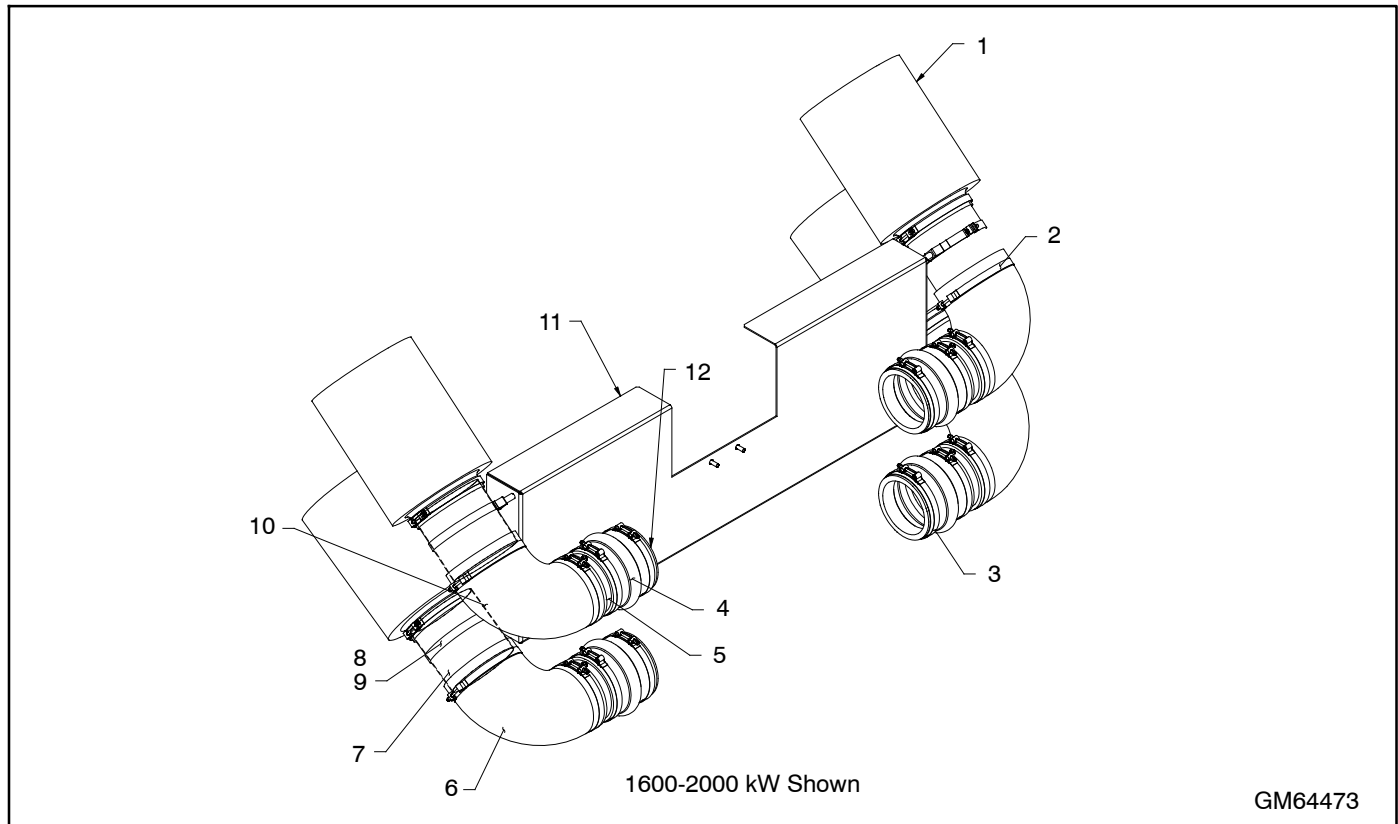
Note: A-279713 air cleaner assembly is no longer available. Replace with kit GM75957-S (1250 kW) or GM75958-S (1600/2000 kW).

GM75957-S includes mounts 291501 (qty. 8) and air cleaner assy. GM69933 (qty. 4).

GM75958-S includes rain cap 272675 (qty. 4) and air cleaner assy. GM69932 (qty. 4).

Group 101: Air Intake, continued

1250-2000 kW

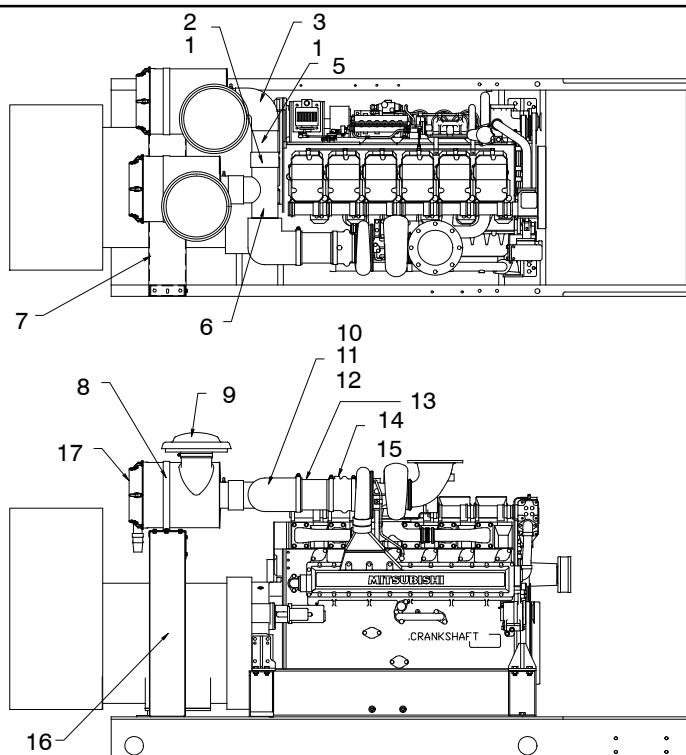


GM64473

Item	Part Number	Description	Quantity Module				
			GM64472-MA1	GM64473-MA1	GM105455-MA1	GM105456-MA1	GM105456-MA2
1	10801001001	Element, Air Cleaner	2	4	2	4	4
2	279743	Clamp, hose, 8.38/8.69 in.	4	8	4	8	8
3	280998	Clamp, hose, 7.5/7.81 in.	6	12	2	4	4
4	291679	Hose, hump (7.00" id)	2	4			
5	274664	Tube assembly	2	4			
5	GM105452	Tube assembly			2	4	4
6	279716	Hose, 90 deg. reducer (8.00 - 7.00" ID)	2	2	2		
7	X-522-114	Tube, Steel	2	4			
8	279380	Mount, Air Cleaner/Exhaust (8.00" id)	2	4	2	4	4
9	X-400-260	Spacer		8			
9	X-400-264	Spacer				8	
10	279716	Hose, 90 deg. reducer (8.00 - 7.00" ID)		2		4	4
11	GM67012	Support, Air Cleaner (Top)		1			
11	GM60823	Support, Air Cleaner (Top)	1				
11	GM105453	Support, Air Cleaner (Top)			1		
11	GM105454	Support, Air Cleaner (Top)				1	1
12	GM16748	Insert, hose reducer (7.00" to 6.25")		4		4	4

Group 101: Air Intake, continued

600 kW, Heavy Duty

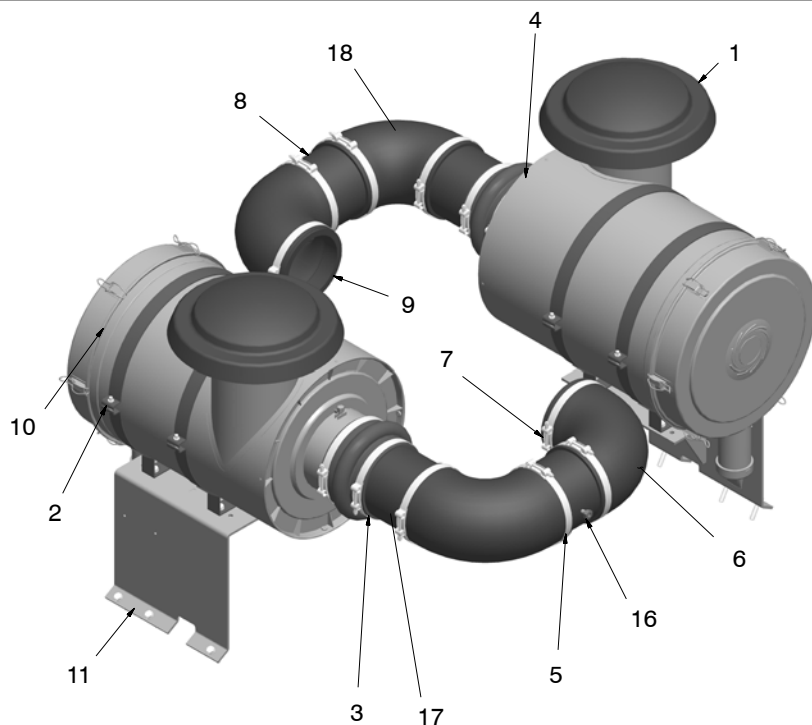


GM69936

Item	Part Number	Description	Quantity Module Number GM69936-MA1
1	254013	Clamp, hose, 6.25/6.56 in.	6
2	361277	Hose, straight air (6.00" id)	2
3	GM23198	Hose, 90 Deg. Reducer (7.00" to 6.00")	1
5	X-522-59	Tube, Steel	1
6	GM71062	Tee, Steel Tube	1
7	GM71068	Bracket, HD Air Cleaner Top	1
8	291501	Mount, Air Cleaner/Exhaust (15.00" id)	2
9	272674	Cap, rain	2
10	272627	Hose, 90 deg. elbow (6.00" id)	1
11	280998	Clamp, hose, 7.5/7.81 in.	1
12	272960	Clamp, hose, 6.56/6.87 in.	1
13	X-522-72	Tube, steel	1
14	GM16083	Hose, hump (7.00" id)	1
15	343587	Clamp, hose, 7.38/7.69 in. (NRP)	2
16	GM71067	Bracket, HD Air Cleaner Side	2
17	GM69933	Cleaner Ass'y, Air	2
17	GM69999	Element, Primary (Outer)	1
17	GM70000	Element, Secondary (Inner)	1

Group 101: Air Intake, continued

750-1000 kW, Heavy Duty



GM69937

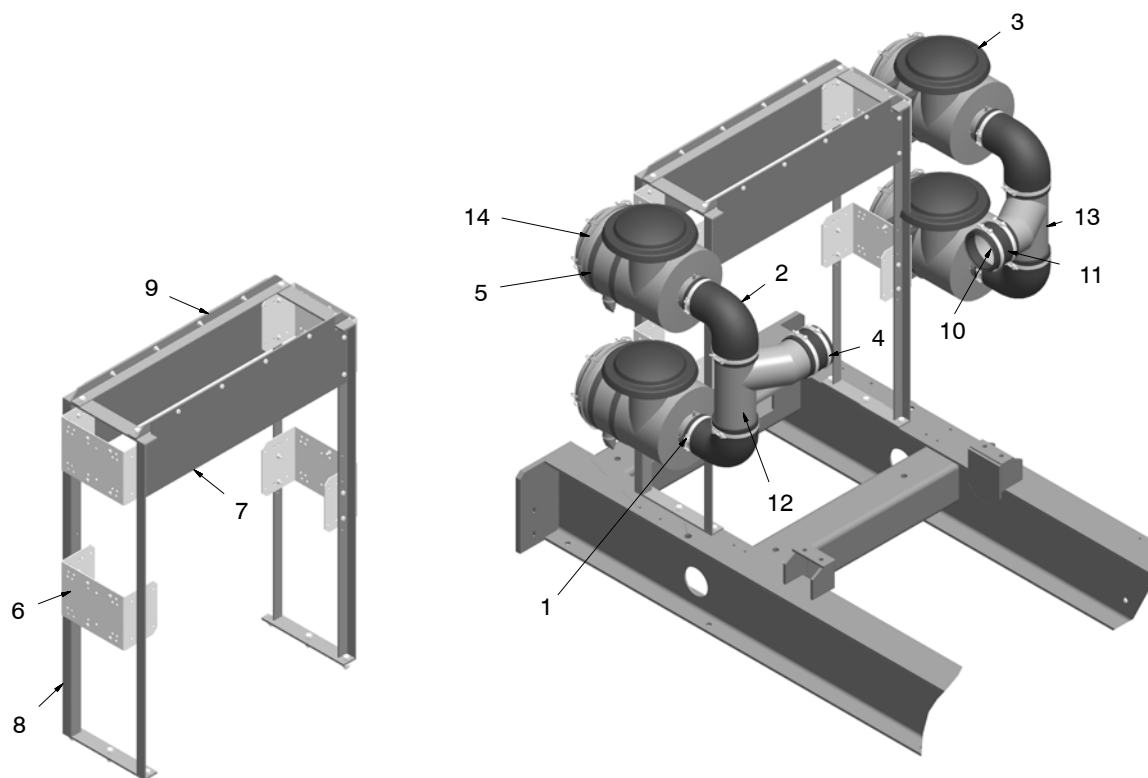
Item	Part Number	Description	Quantity			
			Module Number			
			GM69937-MA1	GM69937-MA2	GM69938-MA1	GM69938-MA2
1	272675	Cap, rain	2		2	2
2	279715	Mount, Air Cleaner/Exhaust (18.00" id)	4		4	4
3	279720	Hose, hump reducer (8.00 to 7.00" id)	2		2	2
4	279743	Clamp, hose, 8.38/8.69 in.	2	2		
5	280998	Clamp, hose, 7.5/7.81 in.	6	6	4	4
5	279743	Clamp, hose, 8.38/8.69 in.			2	2
6	291678	Hose, 90 deg. elbow (7.00" id)	2	4		
6	GM23198	Hose, 90 Deg. Reducer (7.00" to 6.00")			2	2
7	343587	Clamp, hose, 7.38/7.69 in.	4	4	2	2
7	272960	Clamp, hose, 6.56/6.87 in.			4	4
8	354236	Tube, air restriction, 7 in. OD x 7.5 i	2			
8	GM10757	Tube, Assembly			2	2
8	274819	Tube, Assembly		2		
9	GM16748	Insert, hose reducer (7.00" to 6.25")	2	2	2	2
10	GM69932	Cleaner Ass'y, Air	2	2	2	2
10	GM69997	Element, Primary (Outer)	2		2	2
10	GM69998	Element, Secondary (Inner)	2		2	2
11	GM79188**	Bracket, Air Cleaner (HD)	2	2		
11	GM39406**	Bracket, Air Cleaner (H.D.)			2	2
11	GM39395	Bracket, Air Cleaner (H.D.)			4	
11	GM51367**	Bracket, Air Cleaner (H.D.)				2
16	X-268-7	Cap, pipe (1/8" npt)	2	2	2	2
17	X-522-95	Tube, Steel (177.8 O.D. X 165 Long)	2	2		
17	X-522-126	Tube, Steel (177.8 O.D. X 216 Long)		2	2	2
18	291678	Hose, 90 deg. elbow (7.00" id)	2			
18	272663	Hose, 90 deg. reducer (7.00 - 6.00" id)			2	2

** Use the Kit number and chart below to identify the color suffix.
Add a suffix to this color dependent part number before ordering.

Module No.	Color Dependent Parts	
	Part Number Suffix	Part Number Example (item 11)
GM69937-MA2-BLK	-BLK	GM79188-BLK
GM69938-MA2-BLK	-BLK	GM39406-BLK
GM69938-MA2-BLK	-BLK	GM51367-BLK

Group 101: Air Intake, continued

1250 kW, Heavy Duty



GM69942

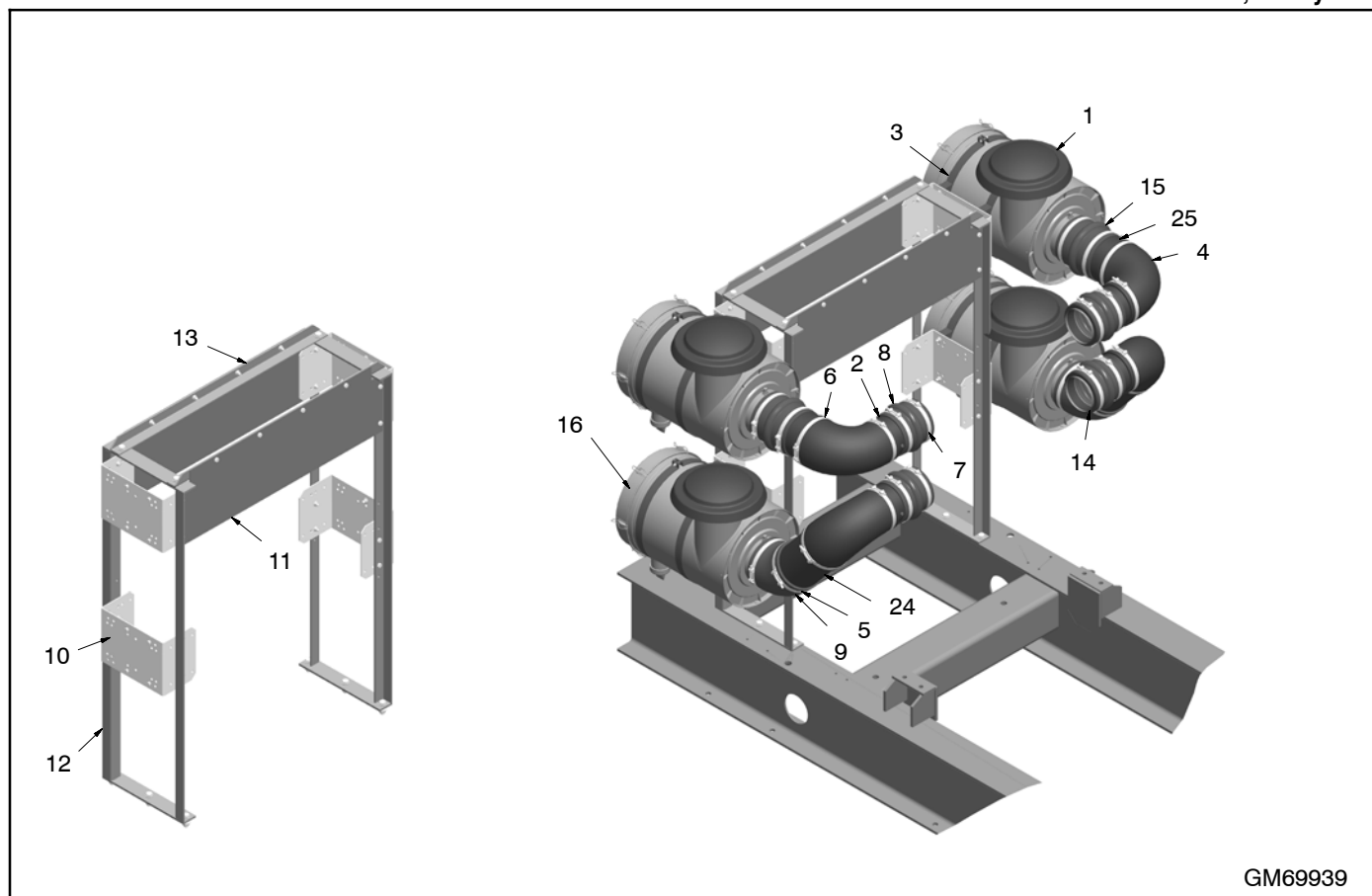
Item	Part Number	Description	Quantity	
			GM69942-MA1	Module
1	254013	Clamp, hose, 6.25/6.56 in.	4	
2	272663	Hose, 90 deg. reducer (7.00 - 6.00" id)	4	
3	272674	Cap, rain	4	
4	280998	Clamp, hose, 7.5/7.81 in.	8	
5	291501	Mount, Air Cleaner/Exhaust (15.00" id)	8	
6	GM16693**	Bracket, Air Cleaner	4	
7	GM16694**	Plate, Air Cleaner Support	2	
8	GM16709**	Support, Air Cleaner	2	
9	GM16712**	Support, Air Cleaner (Top)	2	
10	GM16748	Insert, hose reducer (7.00" to 6.25")	2	
11	GM40731	Hose, Straight Air (7.00" ID)	2	
12	GM40733	Tube, Intake (R.S.)	1	
13	GM40734	Tube, Intake (L.S.)	1	
14	GM69933	Cleaner Ass'y, Air	4	
14	GM69999	Element, Primary (Outer)	4	
14	GM70000	Element, Secondary (Inner)	4	

** Use the Kit number and chart below to identify the color suffix.
Add a suffix to this color dependent part number before ordering.

Module No.	Color Dependent Parts	
	Part Number Suffix	Part Number Example (item 6)
GM69942-MA1-BLK	-BLK	GM16693-BLK
GM69942-MA1-BLK	-BLK	GM16694-BLK
GM69942-MA1-BLK	-BLK	GM16709-BLK
GM69942-MA1-BLK	-BLK	GM16712-BLK

Group 101: Air Intake, continued

1600-2000 kW, Heavy Duty



GM69939

Item	Part Number	Description	Quantity	
			Module	
			GM69939-MA1	
1	272675	Cap, rain	4	
2	274664	Tube assembly	4	
3	279715	Mount, Air Cleaner/Exhaust (18.00" id)	8	
4	279716	Hose, 90 deg. reducer (8.00 - 7.00" ID)	4	
5	279717	Clamp, hose, 8.63/8.94 in.	2	
6	279743	Clamp, hose, 8.38/8.69 in.	10	
7	280998	Clamp, hose, 7.5/7.81 in.	12	
8	291679	Hose, hump (7.00" id)	4	
9	347957	Hose, 45 deg. elbow (8.00" id)	2	
10	GM16693	Bracket, Air Cleaner	4	
11	GM16694	Plate, Air Cleaner Support	2	
12	GM16709	Support, Air Cleaner	2	
13	GM16712	Support, Air Cleaner (Top)	2	
14	GM16748	Insert, hose reducer (7.00" to 6.25")	4	
15	GM23518	Hose, hump (8.00" id)	2	
16	GM69932	Cleaner Ass'y, Air	4	
16	GM69997	Element, Primary (Outer)	4	
16	GM69998	Element, Secondary (Inner)	4	
24	X-522-107	Tube, Steel	2	
25	X-522-114	Tube, Steel	2	

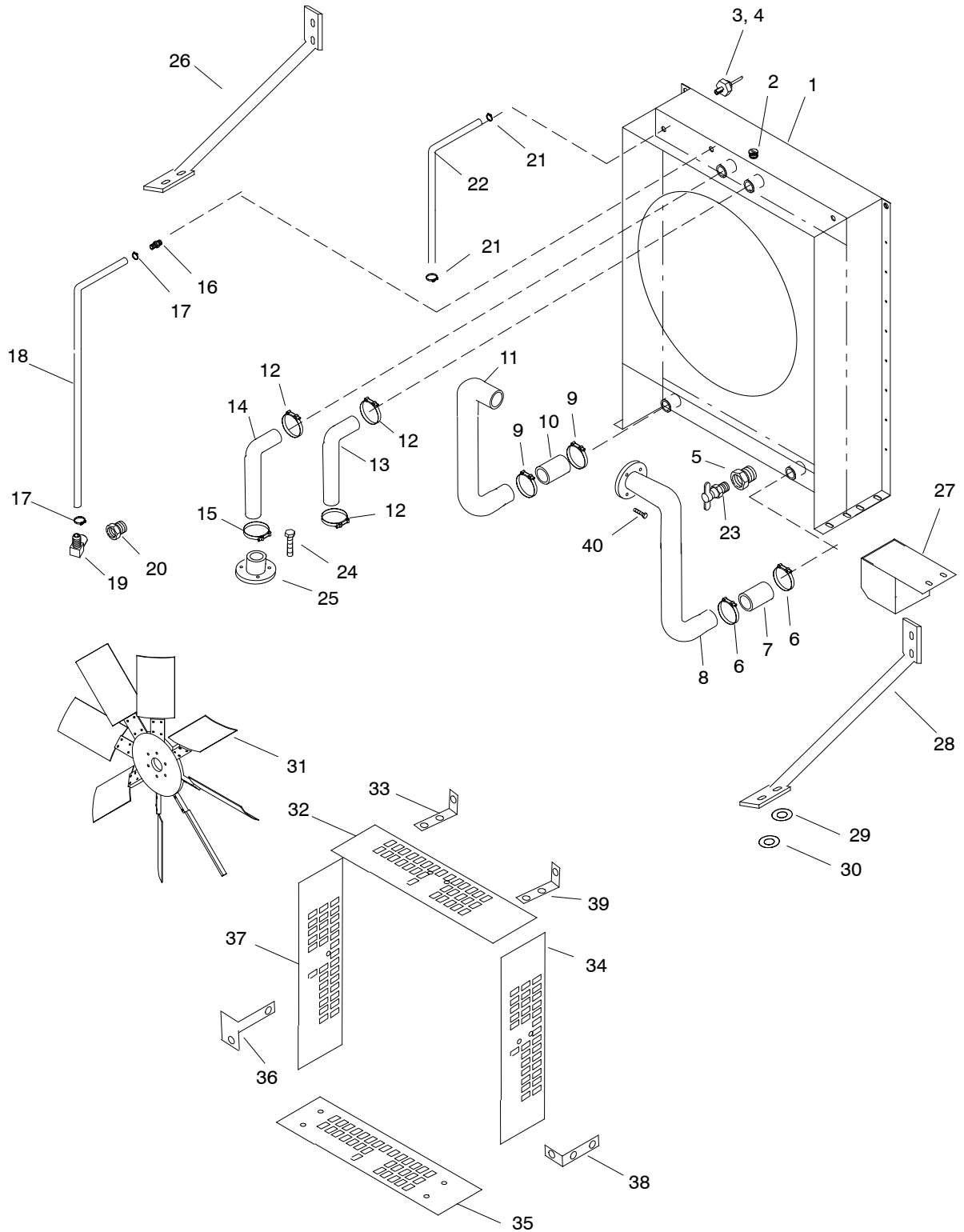
** Use the Kit number and chart below to identify the color suffix.
Add a suffix to this color dependent part number before ordering.

Module No.	Color Dependent Parts	
	Part Number Suffix	Part Number Example (item 6)
GM69939-MA1-BLK	-BLK	GM16693-BLK
GM69939-MA1-BLK	-BLK	GM16694-BLK
GM69939-MA1-BLK	-BLK	GM16709-BLK
GM69939-MA1-BLK	-BLK	GM16712-BLK

Notes

Group 104: Cooling System

600 kW



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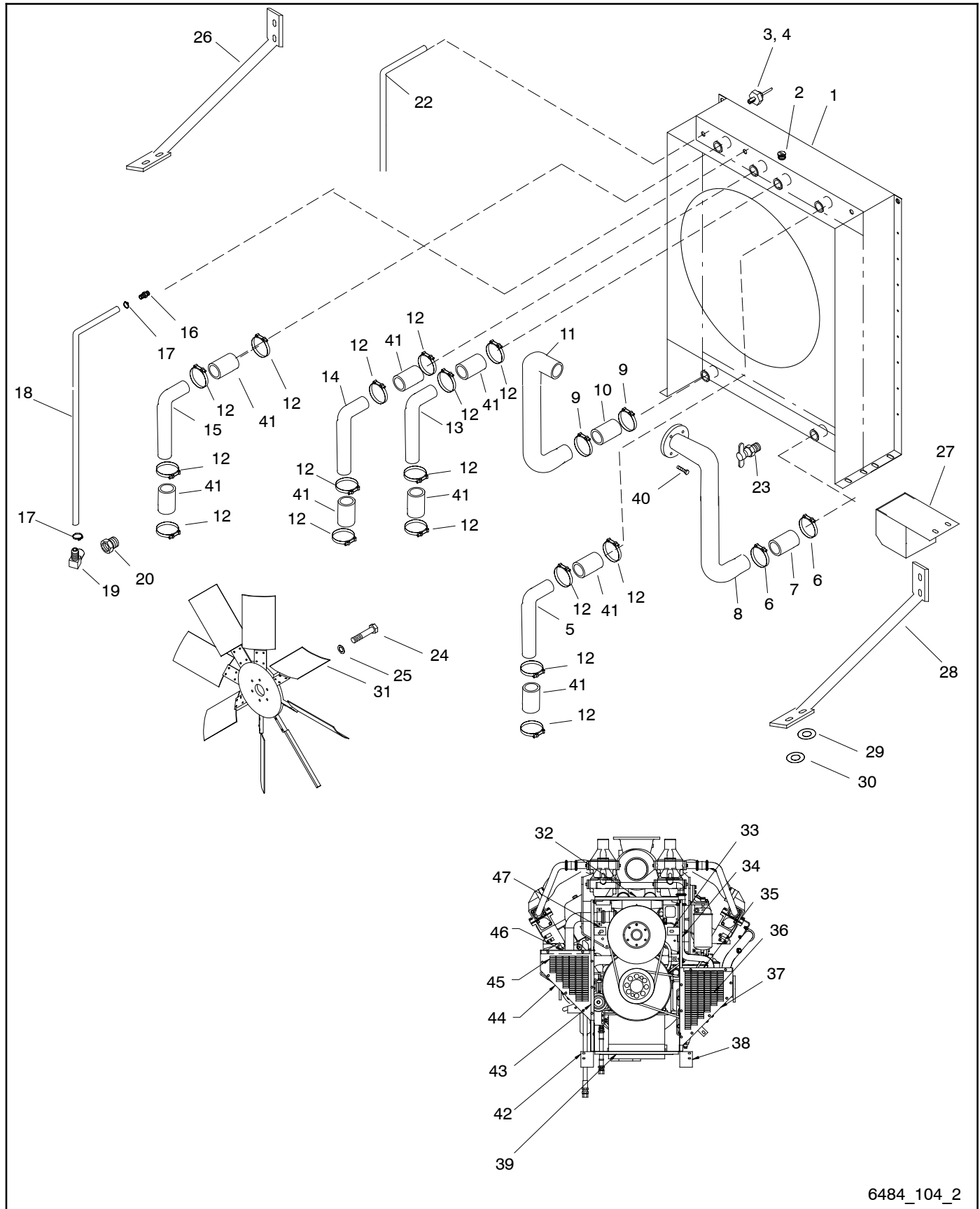
Group 104: Cooling System

600 kW

Item	Part Number	Description	Quantity		
			Module		
			GM50711-MA1	GM50711-MA2	GM77855-MA1
1	GM50718	Radiator assembly	1		
1	GM50719	Radiator assembly		1	
1	GM77845	Radiator assembly			1
2	276954	Cap, radiator	1	1	1
3	365289	Sensor, low fluid	1	1	1
4	X-6003-120	Conduit, convoluted	1	1	1
5	X-215-9	Elbow, pipe (90 deg x 3/8"npt)	1	1	1
6	275527	Clamp, hose, 2.81/3.12 in.	2	2	2
7	X-6014-131	Hose, radiator, wire insert	1	1	1
8	GM50750	Tube, lower radiator AC	1	1	1
9	274824	Clamp, hose, 3.68/4 in.	2	2	2
10	X-6014-130	Hose, radiator, wire insert, 3.5 in. ID	1	1	1
11	GM50763	Tube, lower radiator JW	1	1	1
12	291542	Clamp, hose, 3.25/3.56 in.	3	3	3
13	GM50749	Tube, upper radiator	1	1	1
14	GM50762	Hose, upper radiator AC	1	1	1
15	275527	Clamp, hose, 2.81/3.12 in.	1	1	1
16	X-582-25	Connector, hose	2	2	2
17	X-426-9	Clamp, hose, 0.25/0.70 in.	4	4	4
18	X-6359-13	Hose, rubber, straight, .25 in. ID	2	2	2
19	X-391-44	Elbow, hose	1	1	1
20	X-202-28	Bushing, reducing, 3/8 x 1/2 in. NPT	1	1	1
20	X-380-5	Connector, hose + Vibra Seal	1	1	1
21	X-426-8	Clamp, hose, 0.81/1.75 in.	4	4	4
22	X-6014-117	Hose, radiator, wire insert 1 in. ID	2	2	2
23	278788	Valve, drain (3/8"nptf)	2	2	2
24	M961-10030-60	Screw, hex cap	4	4	4
25	GM11962	Flange, water connection outlet	1	1	1
26	GM50706	Support, radiator, left side	1	1	1
27	GM50751	Support, radiator, left	1	1	1
27	GM52737	Support, radiator, right	1	1	1
28	GM50705	Support, radiator, right side	1	1	1
29	X-6011-3	Washer, beveled, 0.68 ID x 1.5 in. OD	4	4	4
30	X-801-9	Washer, hardened, 0.688 ID x 1.373 in.	12	12	12
31	GM51997	Fan, pusher	1	1	1
32	GM50758	Guard, belt, top	1	1	1
33	GM55038	Bracket, belt guard mounting	1	1	1
34	GM50754	Guard, belt, right side	1	1	1
34	GM51583	Guard, belt, right side top	1	1	1
35	GM50755	Guard, belt, bottom	1	1	1
36	GM51724	Bracket, belt guard mounting	1	1	1
37	GM51850	Guard, belt, left side rear	1	1	1
37	GM50757	Guard, belt, left side	1	1	1
38	GM51725	Bracket, belt guard mounting	1	1	1
39	GM12351	Bracket, belt guard mounting	1	1	1
40	M961-12030-60	Screw, hex cap	5	5	5

Group 104: Cooling System, continued

750/800 kW



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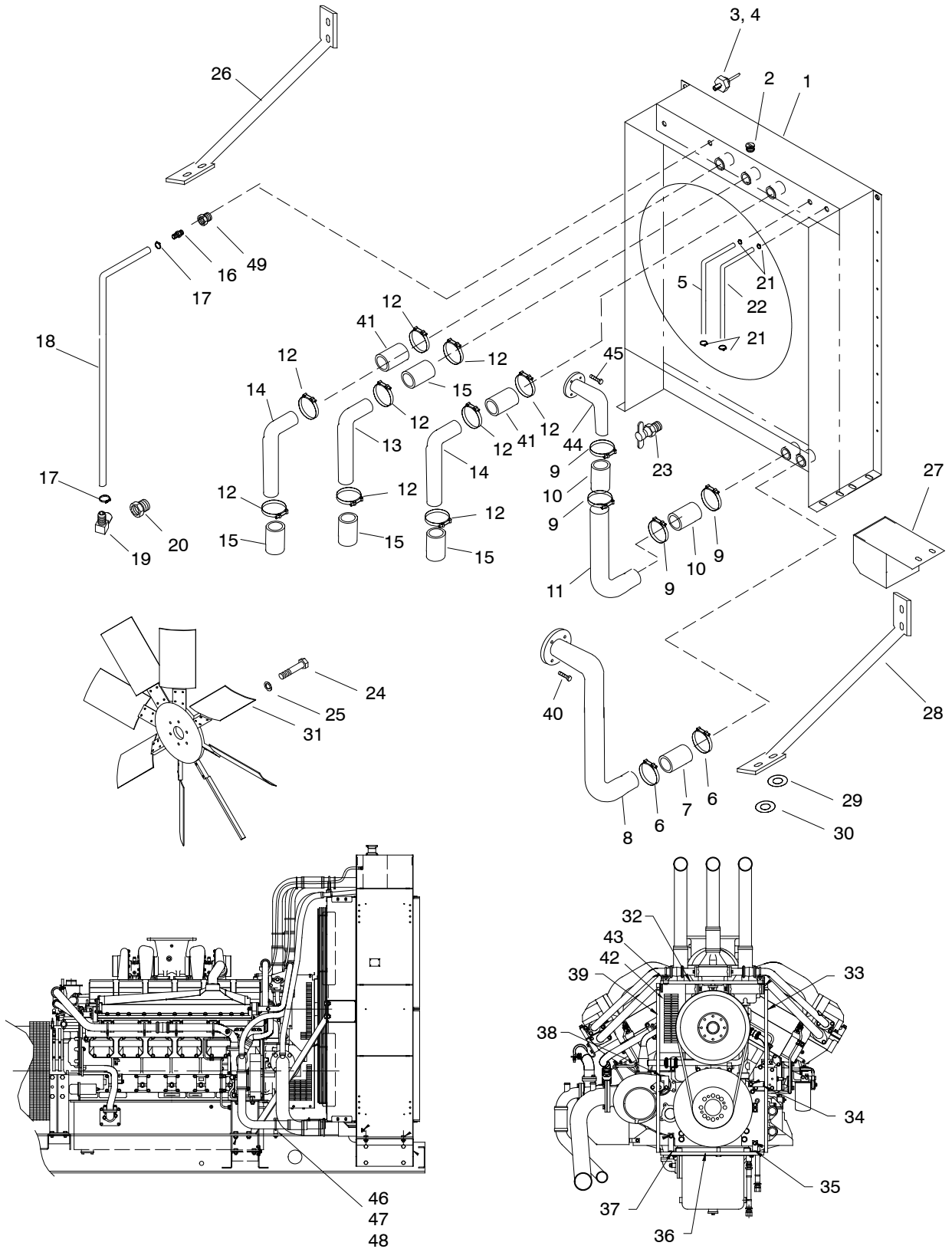
Group 104: Cooling System, continued

750/800 kW

Item	Part Number	Description	Quantity						
			Module						
			GM51077-MA1	GM51077-MA2	GM66994-MA2	GM66994-MA3	GM75863-MA1	GM81552-MA1	GM81552-MA2
1	GM50720	Radiator assembly	1						
1	GM50721	Radiator assembly		1	1			1	
1	GM78583	Radiator assembly				1			1
1	GM75663	Radiator assembly					1		
2	276954	Cap, radiator	1	1	1	1	1	1	1
3	365289	Sensor, low fluid	1	1	1	1	1		
4	X-6003-120	Conduit, convoluted	1	1	1	1	1		
5	GM51281	Hose, upper radiator JW, right hand	1	1	1	1	1	1	1
6	336228	Clamp, hose, 2.63/2.94 in.	2	2	2	2	2	2	2
7	X-6014-69	Hose, radiator, wire insert 2.5 ID	1	1	1	1	1	1	1
8	GM51284	Tube, lower radiator AC	1	1	1	1	1	1	1
9	274824	Clamp, hose, 3.68/4 in.	2	2	2	2	2	2	2
10	X-6014-89	Hose, radiator, wire insert, 3.5 in. ID	1	1	1	1	1	1	1
11	GM51283	Tube, lower radiator	1	1	1	1	1	1	1
12	291542	Clamp, hose, 3.25/3.56 in.	20	20	20	20	20	20	20
13	GM51282	Tube, upper radiator	1	1	1	1	1	1	1
14	GM51282	Tube, upper radiator	1	1	1	1	1	1	1
15	GM51277	Hose, upper radiator JW, left hand	1	1	1	1	1	1	1
16	X-582-25	Connector, hose	4	4	4	4	4	4	4
17	X-426-9	Clamp, hose, 0.25/0.70 in.	8	8	8	8	8	8	8
18	X-6359-3	Hose, rubber, straight, 0.25 in. ID, 8.33 ft.	2	2	2	2	2	2	2
18	X-6359-9	Hose, rubber, straight, 0.25 in. ID, 11 ft.	2	2	2	2	2	2	2
19	X-391-44	Elbow, hose	4	4	4	4	4	4	4
20	X-202-28	Bushing, reducing, 3/8 x 1/2 in. NPT	2	2	2	2	2	2	2
20	225127	Adapter, bushing	2	2	2	2	2	2	2
22	X-6014-4	Hose, radiator, wire insert 1.25 in. ID	2	2	2	2	2	2	2
23	278788	Valve, drain, 3/8 in. NPTF	2	2	2	2	2	2	2
24	M961-12050-82	Screw, hex cap	6	6	6	6	6	6	6
25	290945	Washer, hardened, 0.531 ID x 1.06 in. OD	6	6	6	6	6	6	6
26	GM51279	Support, radiator, left side	1	1	1	1	1	1	1
27	GM51280	Support, radiator	2	2	2	2	2	2	2
28	GM51278	Support, radiator, right side	1	1	1	1	1	1	1
29	X-6011-3	Washer, beveled, 0.68 ID x 1.5 in. OD	4	4	4	4	4	4	4
30	X-801-9	Washer, hardened, 0.688 ID x 1.373 in.	20	20	20	20	20	20	20
31	GM47608	Fan, pusher	1	1	1	1	1	1	1
32	GM51285	Guard, belt, top	1	1	1	1		1	1
32	GM75664	Guard, belt, top					1		
33	GM52139	Bracket, guard, left side	1	1	1	1	1	1	1
34	GM51292	Guard, belt, left side	1	1					
34	GM67000	Guard, belt, left side			1	1		1	1
34	GM75667	Guard, belt, left side					1		
35	GM51291	Guard, belt (chg alt), left	1	1					
35	GM66999	Guard, belt (chg alt), left			1	1	1	1	1
36	GM52270	Guard, belt, left hand (BCA)	1	1	1	1	1	1	1
37	GM51290	Guard, belt (chg alt) left	1	1					
37	GM66998	Guard, belt (chg alt) left			1	1	1	1	1
38	GM51289	Bracket, guard, left side	1	1	1	1		1	1
38	GM75669	Bracket, guard, left side					1		
39	GM51288	Guard, belt, bottom	1	1	1	1		1	1
39	GM75665	Guard, belt, bottom					1		
40	M961-12030-60	Screw, hex cap	2	2	2	2	2	2	2
41	X-507-7	Hose, radiator, straight, 3 in. ID	8	8	8	8	8	8	8
42	GM51287	Bracket, guard, right side	1	1	1	1		1	1
42	GM75668	Bracket, guard, right side					1		
43	GM51286	Guard, belt, right side	1	1					
43	GM66997	Guard, belt, right side			1	1		1	1
43	GM75666	Guard, belt, right side					1		
44	GM51363	Guard, belt (chg alt), right	1	1					
44	GM66996	Guard, belt (chg alt), right			1	1	1	1	1
45	GM51338	Guard, chg alt	1	1	1	1	1	1	1
46	GM51037	Guard, belt (chg alt), right	1	1					
46	GM66995	Guard, belt (chg alt), right			1	1	1	1	1
47	GM52138	Bracket, guard, right side	1	1	1	1	1	1	1
47	X-400-230	Spacer, 0.531 ID x 1 OD x 1 in.	2	2	2	2	2	2	2

Group 104: Cooling System, continued

900/1000 kW



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Group 104: Cooling System, continued

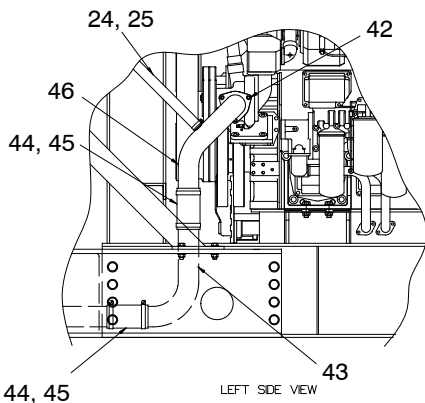
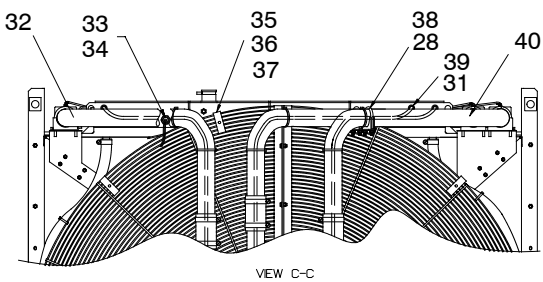
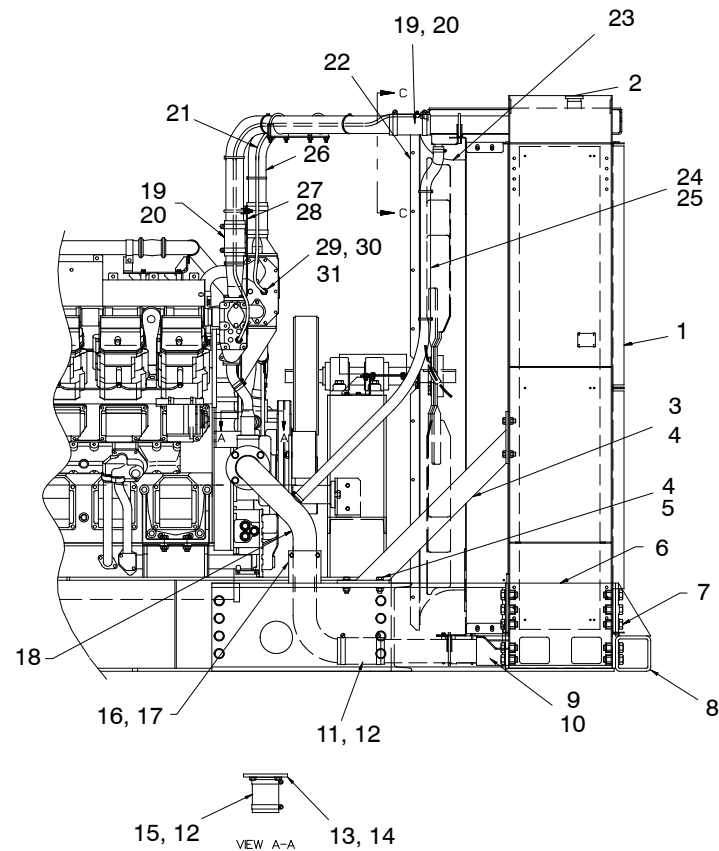
900/1000 kW

Item	Part Number	Description	Quantity Module			
			GM51329-MA1	GM51329-MA2	GM81189-MA1	GM81189-MA2
1	GM50722	Radiator assembly	1		1	
1	GM50723	Radiator assembly		1		1
2	276954	Cap, radiator	1	1	1	1
3	365289	Sensor, low fluid	1	1		
4	X-6003-120	Conduit, convoluted	1	1		
5	X-6014-115	Hose, radiator, wire insert, 1.25 in. ID	1	1	1	1
6	274545	Clamp, hose, 4.31/4.62 in.	2	2	2	2
7	X-6014-92	Hose, radiator, wire insert, 4.00 ID	1	1	1	1
8	GM50953	Tube, lower radiator	1	1	1	1
9	275527	Clamp, hose, 2.81/3.12 in.	4	4	4	4
10	X-6014-69	Hose, radiator, wire insert, 2.5 in. ID	2	2	2	2
11	GM52582	Tube, lower radiator	1	1	1	1
12	291542	Clamp, hose, 3.25/3.56 in.	12	12	12	12
13	GM50985	Tube, upper radiator	1	1	1	1
14	361560	Tube, upper radiator	2	2	2	2
15	X-507-7	Hose, radiator, straight, 3 in. ID	4	4	4	4
16	X-582-25	Connector, hose	3	3	3	3
17	X-426-9	Clamp, hose, 0.25/0.70 in.	6	6	6	6
18	X-6359-7	Hose, rubber, straight, 0.25 in. ID, 4.75 ft.	1	1	1	1
18	X-582-25	Connector, hose (not shown)	4	4	4	4
18	X-6359-9	Hose, rubber, straight, 0.25 in. ID, 11 ft.	2	2	2	2
19	X-391-44	Elbow, hose	2	2	2	2
20	225127	Adapter, bushing	2	2	2	2
21	X-426-19	Clamp, hose, 1.00/2.00 in.	4	4	4	4
22	X-6014-82	Hose, radiator, wire insert 1.25 in. ID	1	1	1	1
23	278788	Valve, drain, 3/8 in. NPT	2	2	2	2
24	M961-12040-82	Screw, hex cap	8	8	8	8
25	290945	Washer, hardened, 0.531 ID x 1.06 in. OD	8	8	8	8
26	GM50982	Support, radiator, left side	1	1	1	1
27	GM50980	Support, radiator	2	2	2	2
28	GM50981	Support, radiator, right side	1	1	1	1
29	X-6011-3	Washer, beveled, 0.68 ID x 1.5 in. OD	4	4	4	4
30	X-801-9	Washer, hardened, 0.688 ID x 1.373 in.	20	20	20	20
31	GM10378	Fan, pusher	1	1	1	1
32	GM51324	Guard, belt, top	1	1	1	1
33	GM51326	Guard, belt left side	1	1	1	1
34	GM10545	Bracket, belt guard	1	1	1	1
35	GM10547	Bracket, belt guard mtg.	1	1	1	1
36	GM10542	Guard, belt, bottom	1	1	1	1
37	GM10546	Bracket, belt guard mtg.	1	1	1	1
38	GM10544	Bracket, belt guard mtg.	1	1	1	1
39	GM51325	Guard, belt right side	1	1	1	1
40	M961-16040-60	Screw, hex cap	4	4	4	4
41	X-507-6	Hose, straight coolant, 3 in. ID	2	2	2	2
42	GM51327	Guard, belt	1	1	1	1
43	GM51328	Bracket, belt guard mtg.	2	2	2	2
44	GM50984	Tube, lower radiator	1	1	1	1
45	M961-12030-60	Screw, hex cap	2	2	2	2
46	GM52629	Bracket, tube support	1	1	1	1
47	X-722-2	Clamp, muffler, 2.62 in.	1	1	1	1
48	X-6011-4	Washer, beveled, 0.44 ID x 1.25 in. OD	1	1	1	1

Group 104: Cooling System, continued

1250-2000 kW

1250 kW Shown



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Group 104: Cooling System, continued

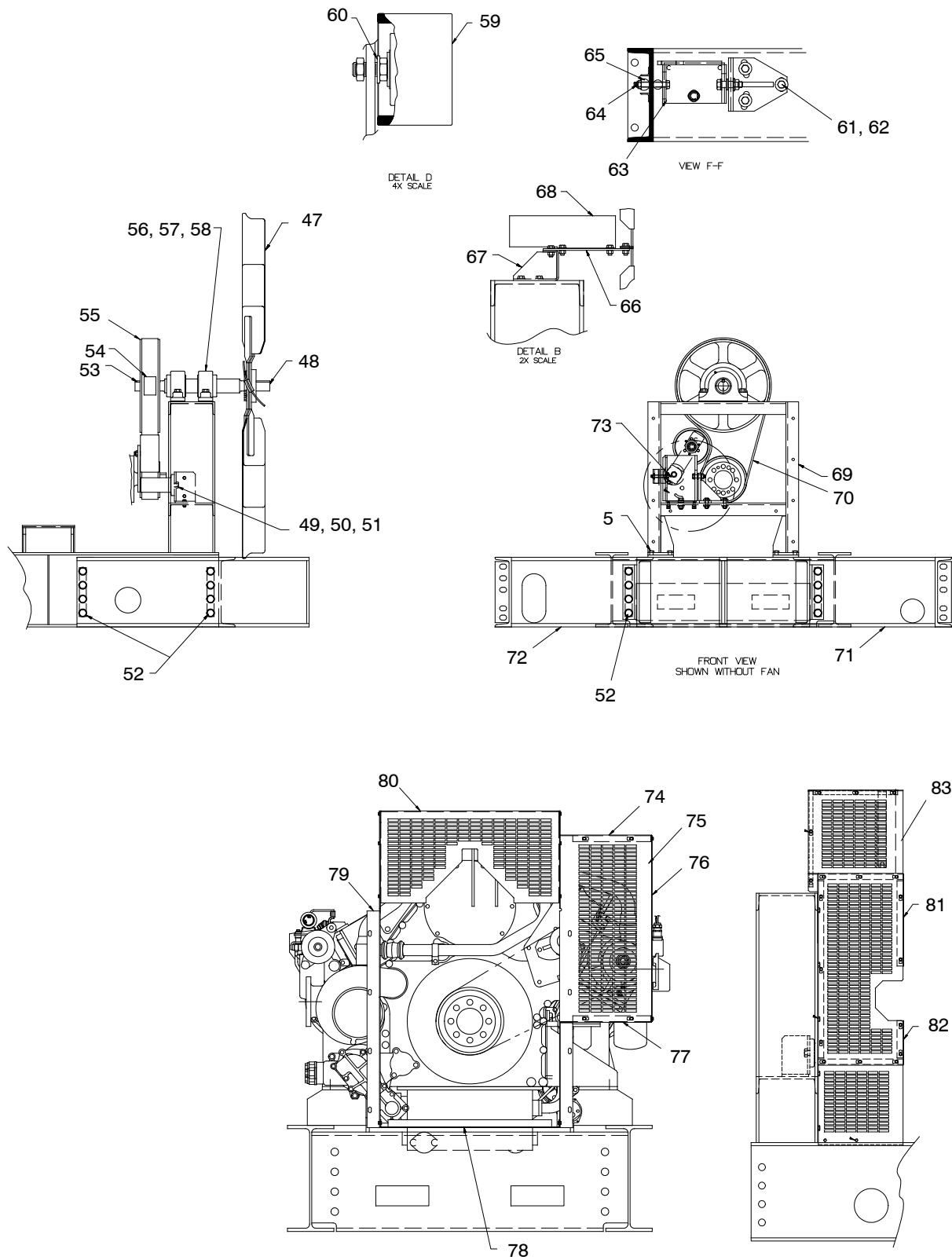
Item	Part Number	Description	Quantity								
			Module								
			GM51417-MA1	GM51417-MA2	GM50812-MA1	GM50812-MA2	GM50812-MA3	GM51782-MA1	GM75499-MA1	GM75499-MA2	GM75499-MA3
1	GM50724	Radiator assembly	1								
1	GM50725	Radiator assembly		1							
1	GM50726	Radiator assembly			1						
1	GM50727	Radiator assembly				1					
1	GM50728	Radiator assembly					1				
1	GM50729	Radiator assembly						1			
1	GM75471	Radiator assembly							1		
1	GM75472	Radiator assembly								1	
1	GM75473	Radiator assembly									1
2	276954	Cap, radiator	1	1	1	1	1	1	1	1	1
3	354969	Brace, radiator	2	2			2				2
3	GM22413	Brace, radiator			2	2			2	2	
3	347436	Brace, radiator						2			
4	X-801-9	Washer, hardened, 0.688 ID x 1.373 in. OD	8	8	8	8	8	8	8	8	8
5	X-6011-3	Washer, beveled, 0.68 ID x 1.5 in. OD	8	8	8	8	8	8	8	8	8
6	354999	Bracket, radiator mounting	2	2	2	2	2	2	2	2	2
7	X-801-10	Washer, hardened, 1.062 ID x 2 in. OD	20	20	20	20	20	20	20	20	20
8	361046	Guard, radiator	1	1		1				1	
8	GM22413	Guard, radiator			1				1		
8	GM50599	Guard, radiator					1				1
8	347419	Guard, radiator						1			
10	278788	Valve, drain, 3/8 in. NPTF	1	1	1	1	1	1	1	1	1
11	X-6014-31	Hose, radiator wire inset, 4.00 ID	1	1	1	1	1	1	1	1	1
12	274545	Clamp, hose, 4.31/4.62 in.	4	4	4	4	4	4	4	4	4
13	GM19337	Flange, water connection, inlet	1	1	1	1	1	1	1	1	1
14	M961-16040-60	Screw, hex cap	4	4	4	4	4	4	4	4	4
15	X-6014-91	Hose, radiator wire inset, 4.00 ID	1	1	1	1	1	1	1	1	1
16	GM19963	Bracket, inlet tube	1	1				1			
16	GM50773	Bracket, inlet tube			1	1			1	1	
16	GM50828	Bracket, inlet tube					1				1
17	289372	Clamp, muffler, 4.12 in.	1	1	1	1	1	1	1	1	1
18	GM19322	Tube, lower radiator	1	1	1	1	1	1	1	1	1
19	X-507-6	Hose, straight coolant, 3.00 in. ID	4	4	4	4	4	4	4	4	4
19	X-6006-3	Hose, radiator, straight, 3.5 in. ID	2	2	2	2	2	2	2	2	2
20	291542	Clamp, hose, 3.25/3.56 in.	12	12	12	12	12	12			
20	GM51502	Clamp, hose							8	8	8
21	X-6359-14	Hose, rubber	3	3	3	3	3	3	3	3	3
22	354959	Guard, flat fan	4	4							
22	GM79943	Guard, flat fan						4			
22	GM21308	Guard, wire fan, upper			1	1	1	1	1	1	1
22	GM21309	Guard, wire fan, lower			1	1	1	1	1	1	1
23	354195	Shroud, venturi fan	3	3							
23	GM60517	Shroud						4			
24	X-6014-115	Hose, radiator wire inset, 1.25 ID	2	2	2	2	2	2	2	2	2
25	X-426-4	Clamp, hose, 1.31/2.25 in.	4	4	4	4	4	4	4	4	4
26	GM51408	Tube, radiator upper, middle	1	1							
26	GM50605	Tube, radiator upper, middle			1	1	1		1	1	1
26	GM51779	Tube, radiator upper, middle						1			
27	GM19607	Support, radiator tube	2	2	2	2	2	2	2	2	2
28	286283	Clamp, muffler, 3.12 in.	4	4	4	4	4	4	4	4	4
29	X-391-44	Elbow, hose	1	1	1	1	1	1	1	1	1
30	X-202-28	Bushing, reducing, 3/8 x 1/2 in. NTP	1	1	1	1	1	1	1	1	1
30	X-380-5	Connector, hose	2	2	2	2	2	2	2	2	2
31	X-426-9	Clamp, hose, 0.25/0.70 in.	6	6	6	6	6	6	6	6	6
32	GM51406	Tube, radiator upper, left	1	1							
32	GM50603	Tube, radiator upper, left			1	1	1		1	1	1
32	GM51777	Tube, radiator upper, left						1			
33	365289	Sensor, low fluid assembly	1	1	1	1	1	1	1	1	1
34	X-6003-8	Conduit, convoluted	1	1	1	1	1	1	1	1	1
35	GM17890	Plate, support	12	12							
35	GM22400	Plate, support						16			
36	M982-10-80	Nut, hex elastic stop	12	12				16			
37	X-801-6	Washer,hardened, 0.469 ID x 0.922 in. OD	12	12				16			
38	GM50811	Bracket	1	1	1	1	1	1	1	1	1
39	X-582-25	Connector, hose + vibra seal	3	3	3	3	3	3	3	3	3

Parts list continues on next page

Group 104: Cooling System, continued

1250-2000 kW, continued

1250 kW Shown



6484_104_5a

Group 104: Cooling System, continued

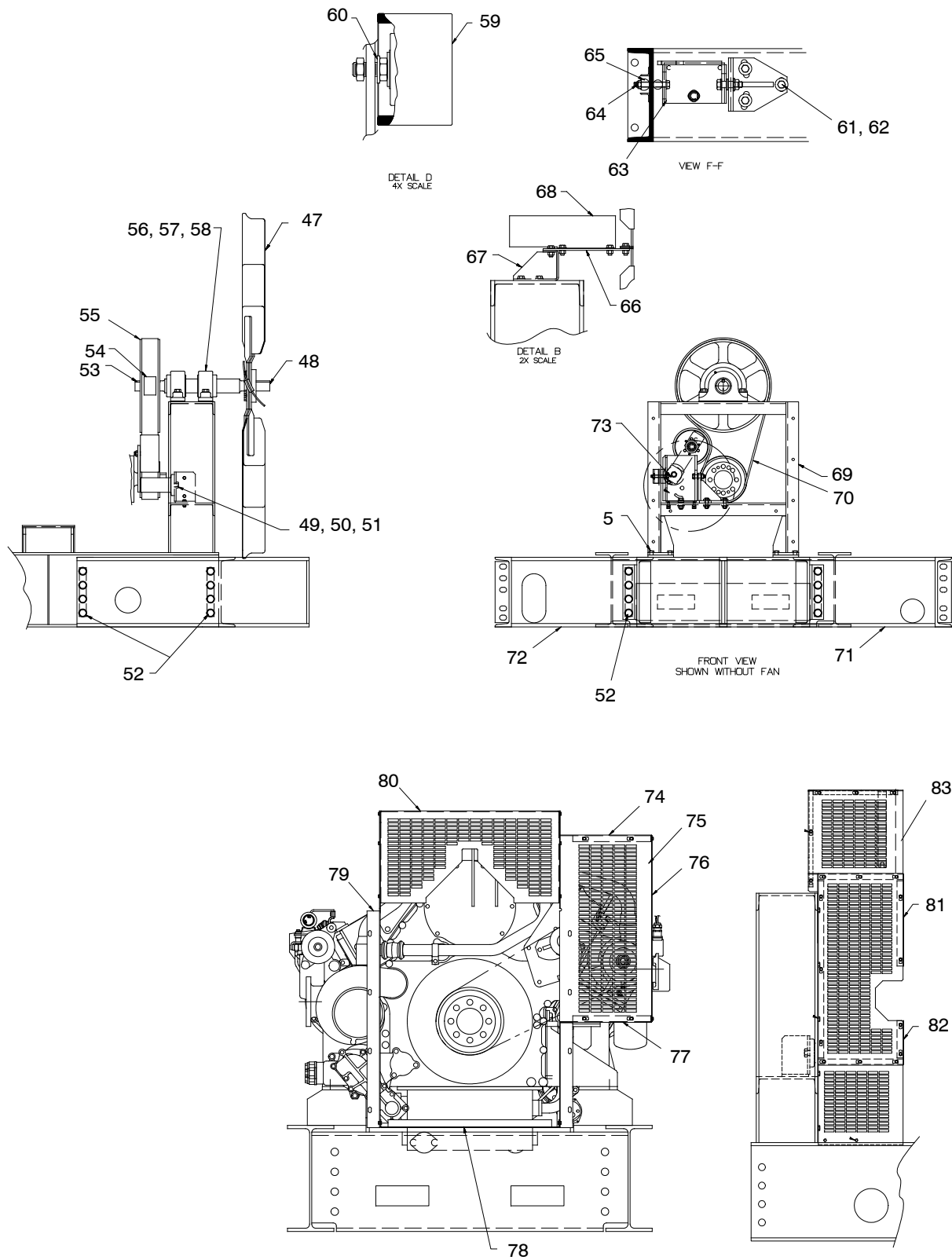
Item	Part Number	Description	Quantity							
			Module							
			GM51417-MA1	GM51417-MA2	GM50812-MA1	GM50812-MA2	GM50812-MA3	GM75499-MA1	GM75499-MA2	GM75499-MA3
40	GM51407	Tube, radiator upper, right	1	1						
40	GM50604	Tube, radiator upper, right			1	1	1		1	1
40	GM51778	Tube, radiator upper, right						1		
42	M960-12050-60	Screw, hex cap	3	3	3	3	3	3	3	3
43	GM50600	Tube, lower radiator	1	1	1	1	1	1	1	1
44	X-6014-74	Hose, radiator wire inset, 3.50 ID	2	2	2	2	2	2	2	2
45	291536	Clamp, hose, 3.75/4.06 in.	4	4	4	4	4		4	4
45	291537	Clamp, hose, 3.75/4.06 in.						4		
46	GM50601	Tube, lower radiator	1	1	1	1	1	1	1	1
47	328246	Fan, pusher	1	1						
47	GM19513	Fan, pusher			1	1	1			
47	GM40814	Fan								1
47	GM75475	Fan						1	1	1
48	GM19587	Shaft, fan	1	1	1	1	1	1	1	1
48	347431	Shaft								1
49	GM28243	Shim, 110 mm OD x 16 gauge stainless	8	8	8	8	8	8	8	8
50	GM28244	Shim, 110 mm OD x 22 gauge stainless	2	2	2	2	2	2	2	2
51	GM28245	Shim, 110 mm OD x 28 gauge stainless	2	2	2	2	2	2	2	2
52	GM20151	Plate, bolting	6	6	6	6	6	6	6	6
53	328256	Key	1	1	1	1	1	1	1	1
54	274905	Bushing, pulley, 3.998 in. NPT	1	1	1	1	1	1	1	1
54	GM26225	Bushing, pulley								1
55	354984	Pulley	1	1	1	1	1	1	1	1
55	274906	Pulley								1
56	347430	Block, pillow	2	2	2	2	2	2	2	2
57	M934-20-80	Nut, hex	4	4	4	4	4	4	4	4
58	GM30510	Shim	AR	AR	AR	AR	AR	AR	AR	AR
59	GM19453	Pulley, Idler	1	1	1	1	1	1	1	1
60	X-25-29	Washer, plain, 0.812 ID x 1.469 in. OD	1	1	1	1	1	1	1	1
61	GM26339	Bracket, adjusting (idler mtg. plate)	1	1	1	1	1	1	1	1
62	X-801-15	Washer, hardened	6	6	6	6	6	6	6	6
63	GM26338	Plate, mounting (idler)	1	1	1	1	1	1	1	1
64	M982-12-80	Nut, hex elastic stop	1	1	1	1	1	1	1	1
65	GM26579	Shaft, pivot	1	1	1	1	1	1	1	1
66	GM52961	Support, fan guard	2	2	2	2	2	2	2	2
66	GM53089	Support, shaft guard								2
67	365644	Support, fan guard	2	2	2	2	2	2	2	2
68	GM52960	Guard, shaft	1	1	1	1	1	1	1	1
68	GM53088	Guard, shaft								1
69	GM64371	Frame, fan support	1	1	1	1	1	1	1	1
69	GM64373	Frame, fan support								1
70	GM19618	Belt, poly V	1	1	1	1	1	1	1	1
70	GM66038	Belt, poly V								1
71	GM19304	Frame, radiator, right hand	1	1						
71	GM50716	Frame, radiator, right hand			1	1		1	1	
71	GM50598	Frame, radiator, right hand					1			1
71	GM51781	Frame, radiator, right hand								1
72	GM19303	Frame, radiator, right hand	1	1						
72	GM50715	Frame, radiator, right hand			1	1		1	1	
72	GM50597	Frame, radiator, right hand					1			1
72	GM51780	Frame, radiator, right hand								1
73	GM19558	Tensioner, belt	1	1	1	1	1	1	1	1

Parts list continues on next page

Group 104: Cooling System, continued

1250-2000 kW, continued

1250 kW Shown



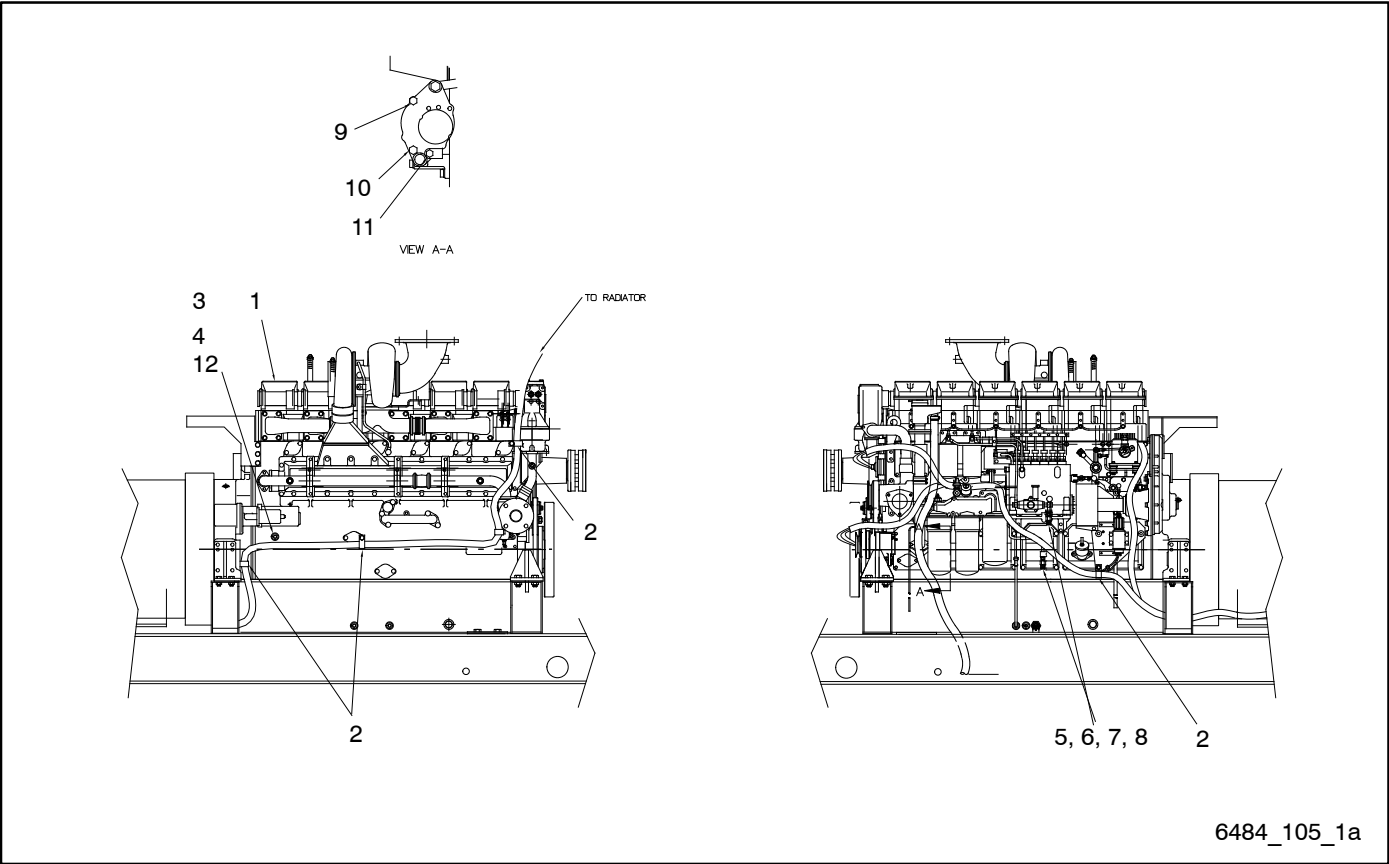
6484_104_5a

Group 104: Cooling System, continued

Item	Part Number	Description	Quantity								
			Module								
			GM51417-MA1	GM51417-MA2	GM50812-MA1	GM50812-MA2	GM50812-MA3	GM75499-MA1	GM75499-MA2	GM75499-MA3	GM51782-MA1
74	GM50784	Guard, belt, left side, top	1	1	1	1	1	1	1	1	
74	GM51773	Guard, belt, left side, top									1
75	GM50785	Guard, belt front	1	1	1	1	1	1	1	1	
75	GM51774	Guard, belt front									1
76	GM50783	Guard, belt, left side, middle	1	1	1	1	1	1	1	1	1
77	GM50782	Guard, belt, left side, bottom	1	1	1	1	1	1	1	1	1
78	GM19961	Guard, bottom	1	1	1	1	1	1	1	1	1
79	GM50786	Guard, belt, right side	1	1	1	1	1	1	1	1	
79	GM51775	Guard, belt, right side									
80	GM50781	Guard, belt top	1	1	1	1	1	1	1	1	
80	GM51776	Guard, belt top									1
80	GM53048	Bracket, support (not shown)			1	1	1	1	1	1	
80	GM53085	Bracket, support (not shown)									1
81	GM52747	Guard, belt	1	1	1	1	1	1	1	1	1
82	GM53047	Guard, belt	1	1	1	1	1	1	1	1	1
83	GM60623	Guard, Belt (RS)									1
83	GM60624	Guard, Belt (LS)									1

Group 105: Engine

600 kW

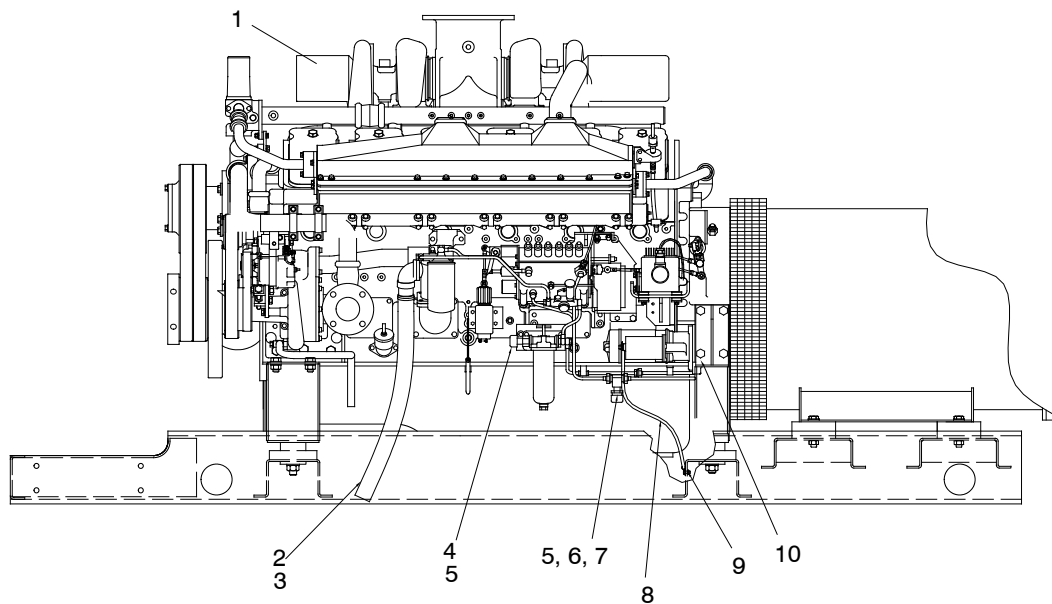


6484_105_1a

Item	Part Number	Description	Qty.
			Var. 1
1	GM49797	Engine assembly, S6R, 600 kW	1
2	X-672-37	Clamp	4
3	M961-12030-60	Screw, hex cap	1
4	M125A-12-80	Washer, plain	1
5	GM10841	Adapter bushing	2
6	X-204-8	Pipe (3/8"npt x 1.50")	2
7	X-202-23	Bushing, reducing, 3/8 x 3/4 in. NPT	2
8	X-268-1	Cap, pipe, 3/4 in.	2
9	M934-05-50	Nut, hex, 5 mm	1
10	X-22-11	Washer, lock, 0.262 ID x 0.469 OD	1
11	X-672-13	Clamp, insulated, 0.88 in.	1
12	GM74535	Terminal, Ground	1

Group 105: Engine

750/800 kW

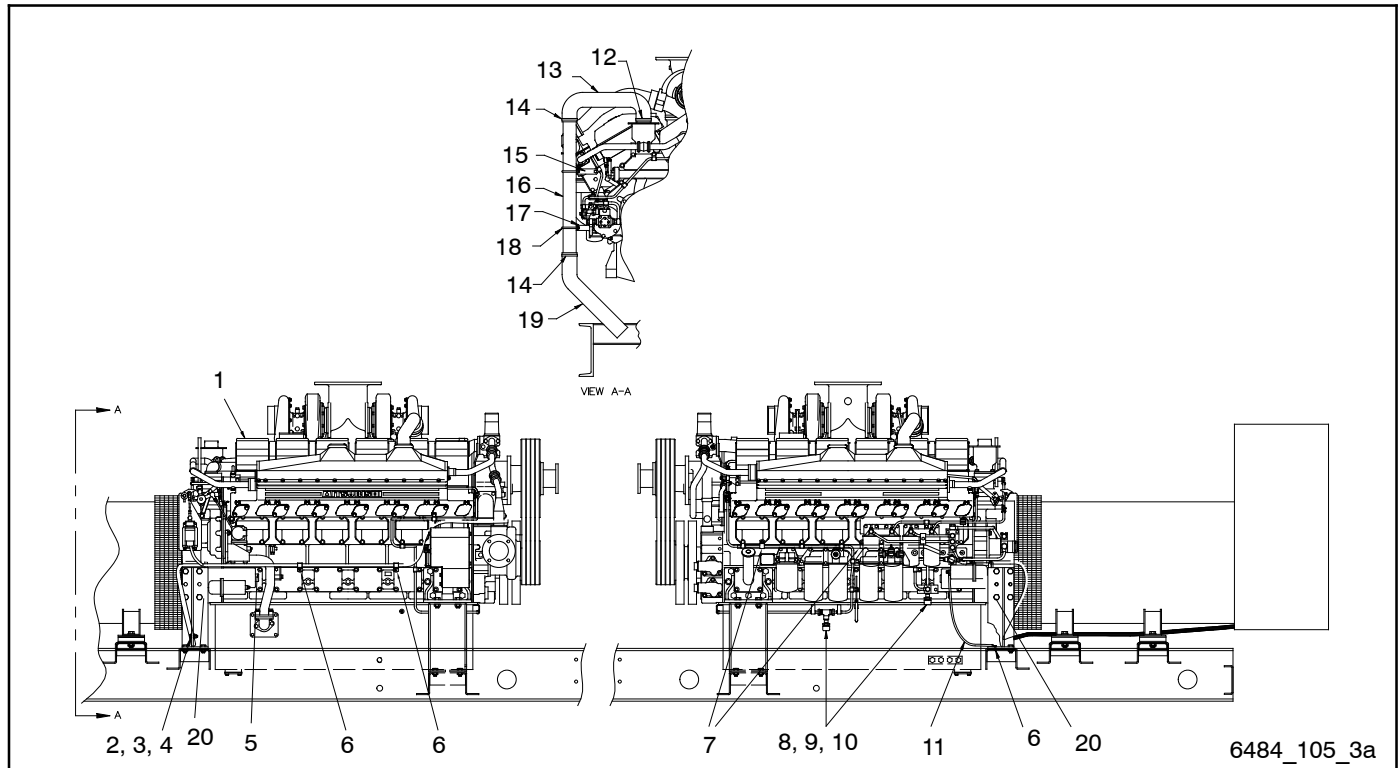


6484_105_2a

Item	Part Number	Description	Qty.
			Var.
1	GM41080	Engine assembly, S12A2, 800 kW	1
2	X-6292-4	Hose	1
3	X-426-19	Clamp, hose, 1.00/2.00 in.	3
4	X-206-9	Pipe, 3/4 in. NPT x 1.38 in.	1
5	X-268-1	Cap, pipe, 3/4 in. NPTF	2
6	X-209-5	Pipe, 1/2 in. NPT x 1.50 in.	1
7	153659	Bushing, reducing, 1/2 x 3/4 in. NPT	1
8	X-545-145	Cable, battery, No. 2/0 x 62 in., RED+	1
9	X-672-32	Clamp, insulated, 1.06 in.	2
10	GM74535	Terminal, Ground	1

Group 105: Engine, continued

900/1000 kW

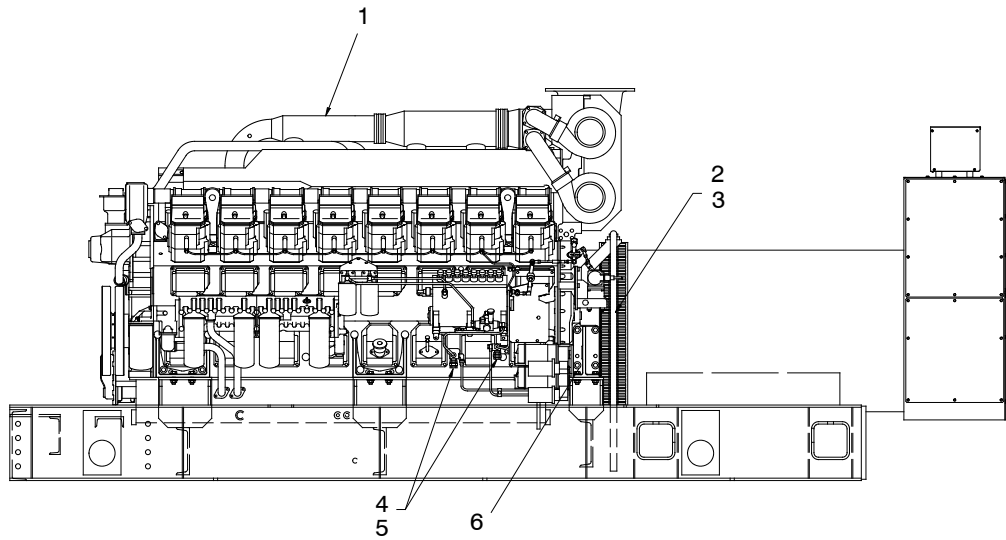


6484_105_3a

Item	Part Number	Description	Qty.
			Var. 3
1	GM49798	Engine assembly, S12H, 1000 kW	1
2	X-22-15	Washer, lock, 0.456 ID x 1.058 in. OD	2
3	X-6214-4	Cap	1
4	226917	Decal, negative battery connection	1
5	X-22-15	Washer, lock, 0.456 ID x 1.058 in. OD	1
6	X-672-32	Clamp, insulated, 1.06 in.	4
7	X-672-3	Clamp, insulated	2
8	X-209-5	Nipple, pipe, 1/2 x 1 1/2 in.	2
9	168848	Bushing, reducing, 1/2 x 1 in. NPT	2
10	X-268-4	Cap, pipe	2
11	X-545-145	Cable, battery, No. 2/0 x 62 in., RED+	1
12	324342	Clamp, hose, 3.43/3.75 in.	1
13	GM10964	Hose, breather	1
14	291542	Clamp, hose, 3.25/3.56 in.	2
15	GM52545	Bracket, breather tube	1
16	GM10579	Tube, breather, 3.00 in.	1
17	GM52546	Bracket, breather tube	1
18	286283	Clamp, muffler, 3.12 in.	2
19	X-6014-57	Hose, radiator, straight, 3 in. ID	1
20	GM74535	Terminal, Ground	2

Group 105: Engine, continued

1250-2000 kW



6484_105_4a

Item	Part Number	Description	Quantity		
			Variation Number		
			4	5	6
1	GM50464	Engine assembly, S12RH, 1250 kW	1		
1	GM50465	Engine assembly, S16R, 1600 kW		1	
1	GM50466	Engine assembly, S16R, 2000 kW			1
2	X-6014-97	Hose, radiator, wire inset 1.00 ID	2	2	2
3	X-426-12	Clamp, hose, 0.69/1.25 in.	2	2	2
4	X-206-9	Pipe, 3/4 in. NPT x 1.38 in.	2	2	2
5	X-268-1	Cap, pipe, 3/4 in. NPTF	2	2	2
6	GM77363	Terminal, Ground	1	1	1
7	GM62262	Shield, Heat (not shown)	1	1	1

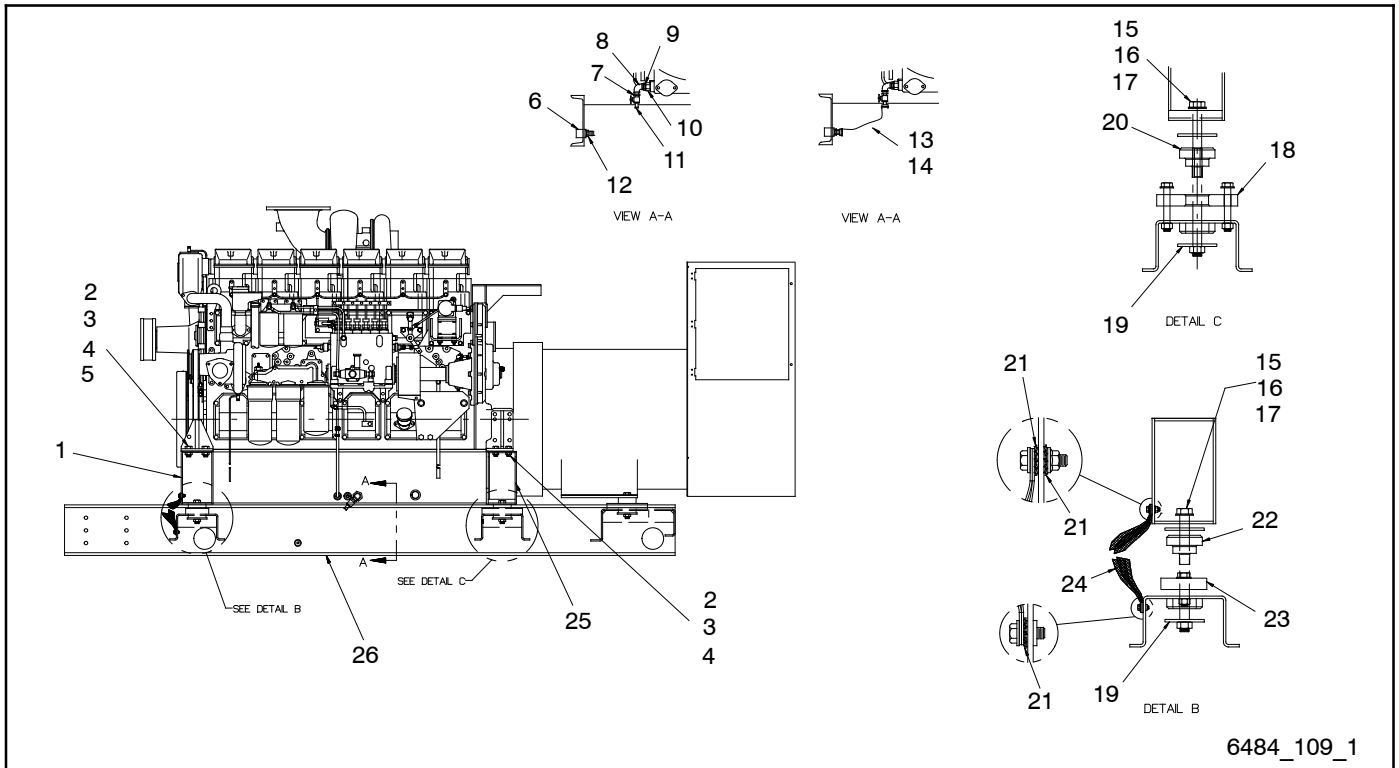
Group 107: Nameplates and Decals

Item	Part Number	Description	Quantity		
			Variation Number		
			1	2	3
1	X-6232-3	Decal, stripes	1	1	
1	X-6232-6	Decal, stripes			2
2	X-6246-1	Decal, Kohler Power System	1	1	2
3	X-6276-8	Logo, Kohler	2	2	
4	224233	Decal, 1-800 number	1	1	1
5	226917	Decal, negative battery connection	1	1	1
6	238402	Decal, caution positive terminal only	2	2	2
7	249808	Decal, warning rotating parts	1	1	1
8	249809	Decal, caution hot engine	2	2	2
9	249810	Decal, warning hot coolant	1	1	1
10	255882	Decal, caution standby service connect	1	1	2
11	257438	Decal, danger moving rotor	1	1	2
12	294520	Decal, danger high voltage	1	1	2
13	GM60531	Decal, control height	1	1	1
14	GM13227	Decal, warning generator fan force	1	1	
15	GM13228	Decal, warning lifting support	1	1	
16	364116	Decal, caution welding disconnect	2	2	2
17	279748	Decal, caution	1	1	
18	258815	Decal, warning voltage backfeed	1	1	2
19	345211	Decal, ground			1
20	GM79042	Decal, Phasing			2
21	GM79043	Decal, Phasing C-B-A			2

Note: Group 107: Nameplates and Decal items are not illustrated.

Group 109: Skid and Plant Mounting

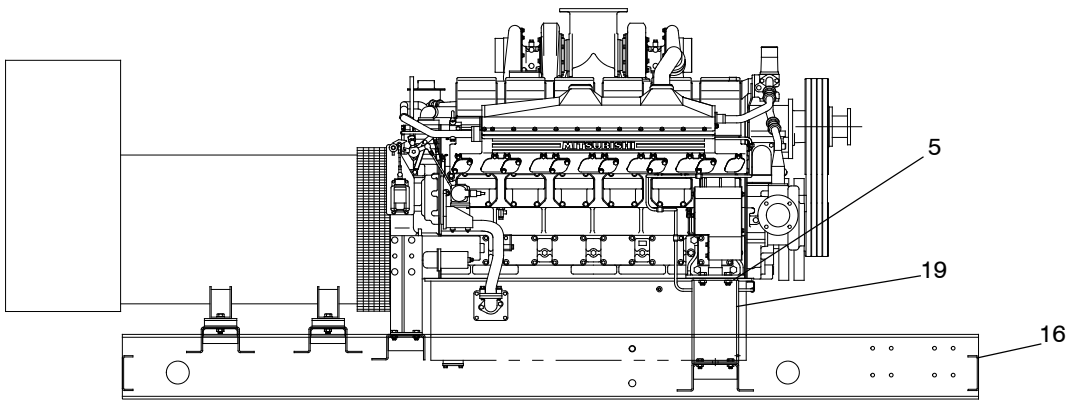
600 kW



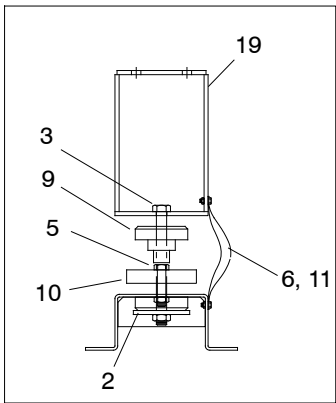
Item	Part Number	Description	Quantity	
			Module	
			GM12012-MA3	GM12012-MA4
1	GM49365	Mount, engine, front	2	2
2	M933-18050-60	Screw, hex cap	8	8
3	M934-18-80	Nut, hex	8	8
4	M125A-18-80	Washer, plain	8	8
5	M6797A-18-80	Washer, lock	1	1
6	X-75-28	Plug, pipe, 1/2 in.	1	1
7	X-202-41	Bushing, reducing, 1/2 x 3/4 in. NPT	1	1
8	X-215-2	Elbow, pipe, 90° x 3/4 in. NPT	1	1
9	X-206-2	Pipe, nipple, 3/4 in. NPT x 2 in.	1	1
10	GM10577	Adapter bushing	1	1
11	272701	Valve, oil drain	1	1
12	X-582-1	Coupling, hose	1	1
13	X-426-3	Clamp, hose, 0.56/1.06 in.	2	2
14	X-577-48	Hose, rubber, straight, 0.62 in. ID	1	1
15	M125A-20-80	Washer, plain	4	4
16	M982-20-80	Nut, hex elastic stop	4	4
17	M931-20120-60	Screw, hex cap	4	4
18	361733	Plate, engine mounting	2	2
19	X-25-155	Washer, plain	4	4
20	365190	Vibromount	2	2
21	X-22-16	Washer, lock, 0.326 ID x 0.883 in. OD	3	3
22	361734	Vibromount	2	2
23	361733	Plate, engine mounting	2	2
24	GM21085	Strap, ground, 16 in.	2	2
25	GM11972	Mount, engine, front	2	2
26	GM50609	Skid	1	
26	GM50596	Skid		1

Group 109: Skid and Plant Mounting, continued

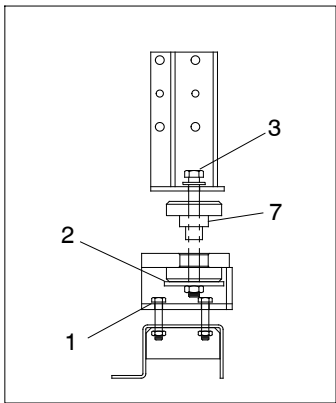
600 kW



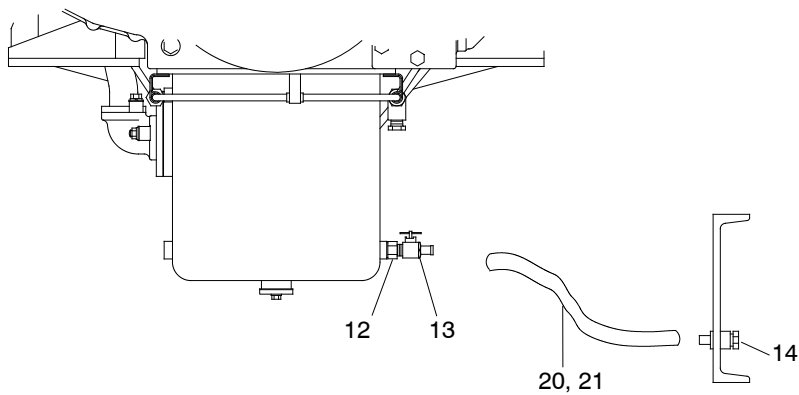
Isolation Mounting



Radiator End



Generator End



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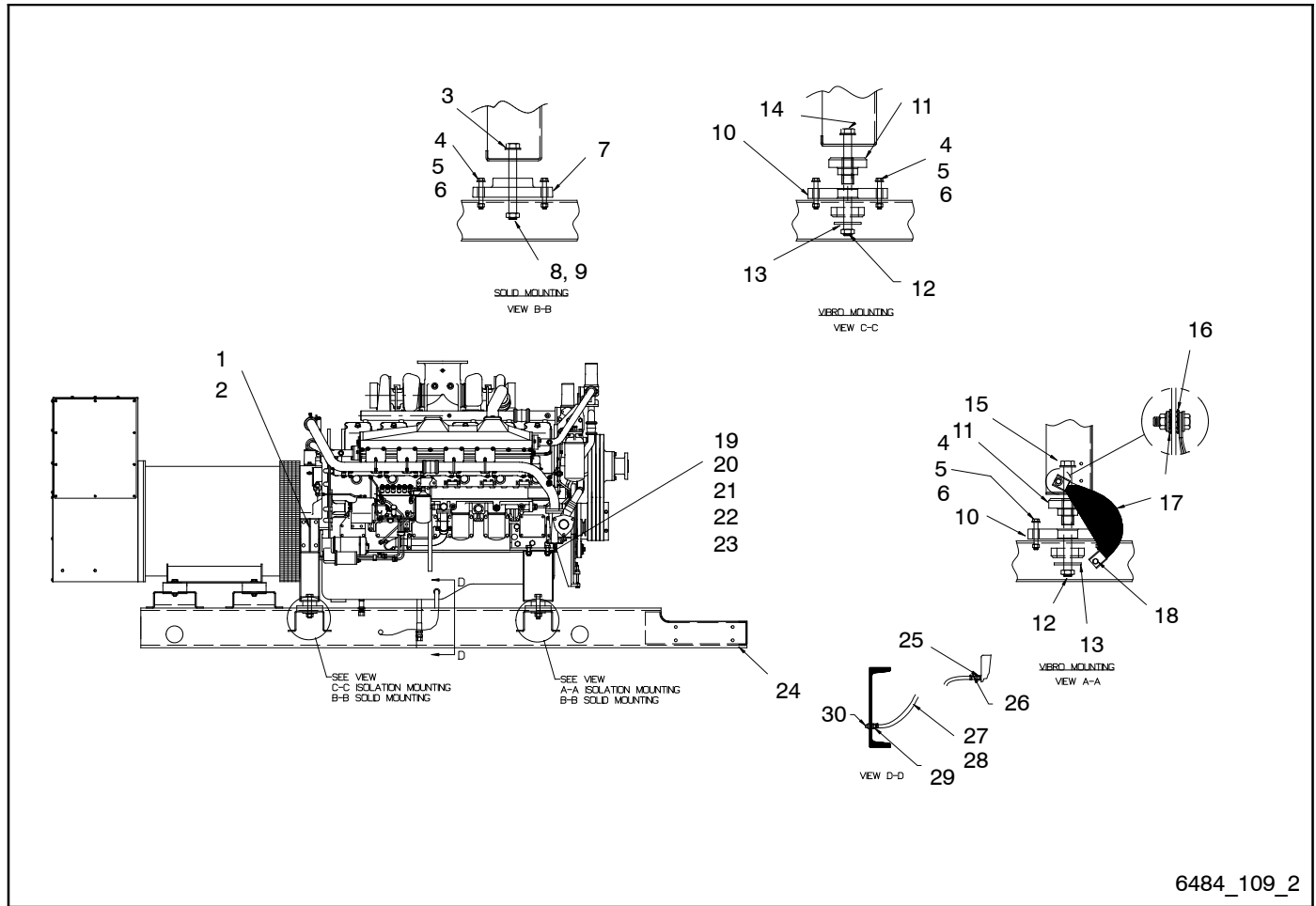
Group 109: Skid and Plant Mounting, continued

600 kW

Item	Part Number	Description	Quantity	
			Module	
			GM77241-MA3	GM77241-MA4
2	X-25-155	Washer, plain	8	8
3	M931-20120-60	Screw, hex cap	4	4
3	M982-20-80	Nut, hex elastic stop	4	4
5	M125A-18-80	Washer, plain	12	12
5	M6797A-18-80	Washer, lock	12	12
5	M933-18050-60	Screw, hex cap	12	12
5	M934-18-80	Nut, hex	12	12
6	X-22-16	Washer, lock, .326 ID x .883 in. OD	3	3
7	365190	Vibromount	2	2
9	361734	Vibromount	2	2
10	361733	Plate, engine mounting	4	4
11	GM21085	Strap, ground (16 in.)	1	1
12	X-202-41	Bushing, reducing, 1/2 x 3/4 in. NPT	1	1
12	GM10577	Adapter bushing	1	1
13	272701	Valve, oil drain	1	1
14	X-582-1	Coupling, hose	1	1
14	X-75-28	Plug, pipe, 1/2 in.	1	1
16	GM77254	Skid	1	
16	GM77255	Skid		1
19	GM49365	Mount, engine, front	4	4
20	X-426-12	Clamp, hose, .69/1.25 in.	2	2
21	X-577-48	Hose, rubber, straight, .62 in. ID	1	1

Group 109: Skid and Plant Mounting, continued

750/800 kW



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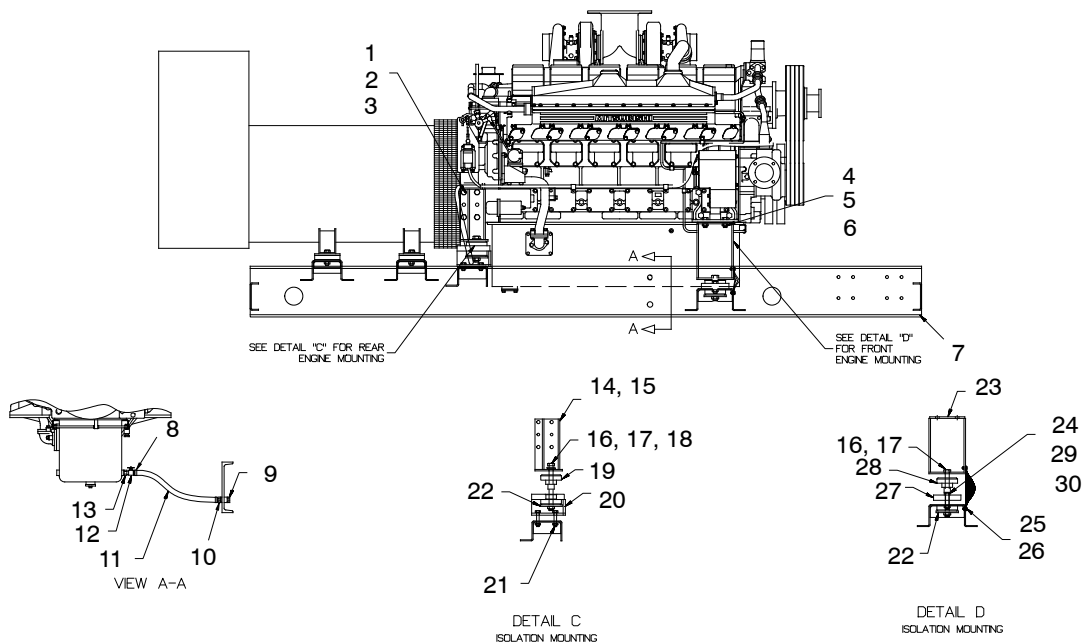
Group 109: Skid and Plant Mounting, continued

750/800 kW

Item	Part Number	Description	Quantity Module					
			GM51272-MA1	GM51272-MA2	GM77243-MA1	GM77243-MA2	GM80793-MA1	GM80793-MA2
1	GM51273	Mount, rear engine	2	2	2	2	2	2
2	M933-18035-60	Screw, hex cap	8	8	8	8	8	8
3	M931-24120-60	Screw, hex cap	4	4	4			
4	M931-20065-60	Screw, hex cap	8	8	4	8	8	8
5	M934-20-80	Nut, hex	12	12	12	12	12	12
6	M125A-20-80	Washer, plain	8	8	8	8	8	8
7	361668	Plate, spacer mounting	4		4			
8	M934-24-80	Nut, hex	4		4			
9	M125A-24-80	Washer, plain	4		4			
10	361039	Plate, generator mounting		4		4	4	4
11	361054	Vibromount		4		4	4	4
12	M982-24-60	Nut, hex elastic stop		4		4	4	4
13	X-25-152	Washer, plain, 1.06 ID x 5.25 in. OD		4		4	4	4
14	M931-24160-60	Screw, hex cap		2		2	2	2
15	M931-24160-60	Screw, hex cap		2		2	2	2
16	X-22-16	Washer, lock., 0.326 ID x 0.883 in. OD		2		2	2	2
17	GM21085	Strap, ground, 16 in.		2		2	2	2
18	X-22-26	Washer, lock, 0.521 ID x 1.24 in. OD		2		2	2	2
19	GM52625	Mount, front engine right	1	1	1	1	1	1
20	GM51274	Mount, front engine left	1	1	1	1	1	1
21	M933-20050-60	Screw, hex cap	4	4	4	4	4	4
22	M125A-20-80	Washer, plain	4	4	4	4		
23	M934-20-80	Nut, hex	4	4	4	4		
24	GM51079	Skid	1	1				
24	GM77256	Skid			1	1		
24	GM80791	Skid					1	
24	GM80831	Skid						1
25	X-202-41	Bushing, reducing, 1/2 x 3/4 in. NPT	1	1	1	1	1	1
26	272701	Valve, oil drain	1	1	1	1	1	1
27	X-577-28	Hose, rubber, straight, 0.62 in. ID	1	1	1	1	1	1
28	X-426-12	Clamp, hose, 0.69/1.25 in.	2	2	2	2	2	2
29	X-582-1	Connector, hose + vibra seal	1	1	1	1	1	1
30	X-75-28	Plug, pipe, 1/2 in. NPTF	1	1	1	1	1	1

Group 109: Skid and Plant Mounting, continued

900/1000 kW



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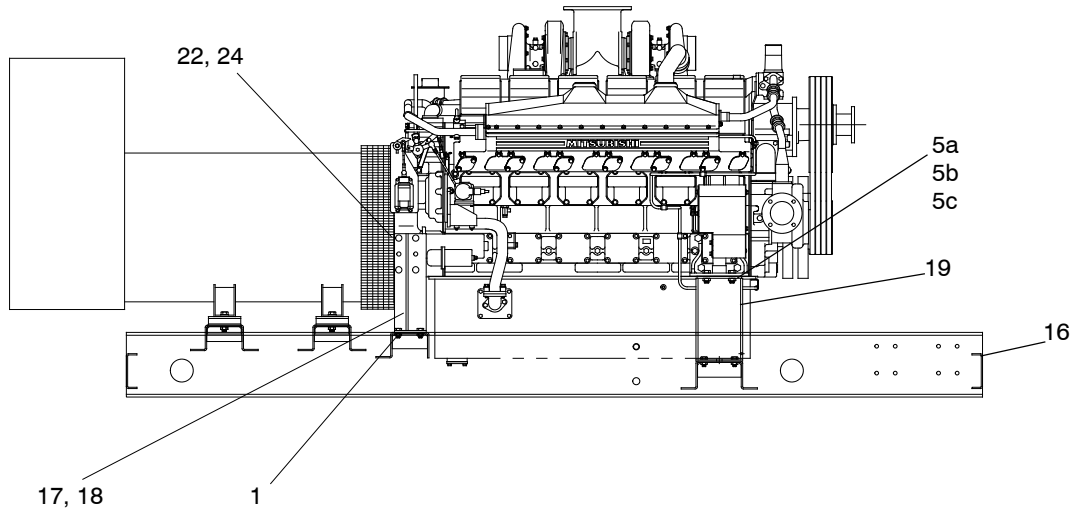
Group 109: Skid and Plant Mounting, continued

900/1000 kW

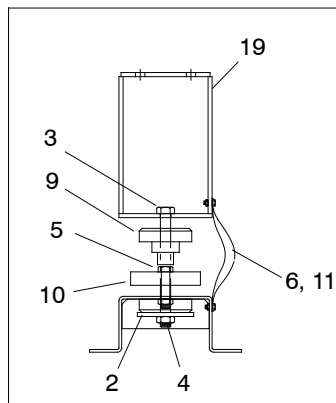
Item	Part Number	Description	Quantity			
			Module			
			GM31224-MA3	GM31224-MA4	GM31226-MA3	GM31226-MA4
1	M933-18035-60	Screw, hex cap	8	8	8	8
2	M125A-18-80	Washer, plain	8	8	8	8
3	M6797A-18-80	Washer, lock	1	1	1	1
4	M933-20055-60	Screw, hex cap	8	8	8	8
5	M934-20-80	Nut, hex	8	8	8	8
6	M125A-20-80	Washer, plain	8	8	8	8
7	GM50978	Skid	1		1	
7	GM50979	Skid		1		1
8	X-426-3	Clamp, hose, 0.56/1.06 in.	2	2	2	2
9	X-75-28	Plug, pipe, 1/2 in.	1	1	1	1
10	X-582-1	Coupling, hose	1	1	1	1
11	X-577-28	Hose, rubber, straight, 0.62 in. ID	1	1	1	1
12	272701	Valve, oil drain	1	1	1	1
13	X-202-41	Bushing, reducing, 1/2 x 3/4 in. NPT	1	1	1	1
14	GM10458	Support, rear engine, right side	1	1		
14	GM10521	Support, rear engine, right side			1	1
15	GM10459	Support, rear engine, left side	1	1		
15	GM10522	Support, rear engine, left side			1	1
16	M931-24160-60	Screw, hex cap	4	4		
17	M982-24-60	Nut, hex elastic stop	4	4		
18	X-801-10	Washer, hardened, 1.062 ID x 2 in. OD	2	2		
19	361919	Vibromount	2	2		
20	361024	Mount, engine	2	2		
21	X-6011-3	Washer, beveled, 0.68 ID x 1.5 in. OD	4	4	4	4
22	X-25-152	Washer, plain, 1.06 ID x 5.25 in. OD	4	4		
23	GM10457	Support, front engine	2	2		
23	GM10520	Support, front engine			2	2
24	M931-20065-60	Screw, hex cap	4	4		
24	M933-16050-60	Screw, hex cap			8	8
25	GM21085	Strap, ground, 16 in.	2	2		
26	X-22-16	Washer, lock, 0.326 ID x 0.883 in. OD	3	3		
27	361039	Plate, generator mounting	2	2		
28	361179	Vibromount	2	2		
29	M934-20-80	Nut, hex	4	4		
29	M6923-16-80	Nut, hex			8	8
30	M125A-20-80	Washer, plain	4	4		
30	M125A-16-80	Washer, plain			8	8

Group 109: Skid and Plant Mounting, continued

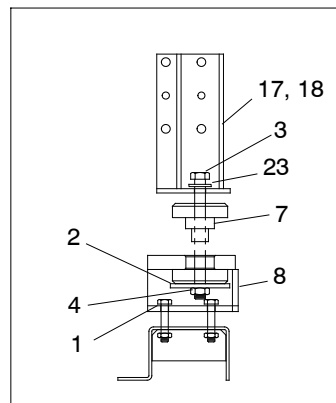
900/1000 kW



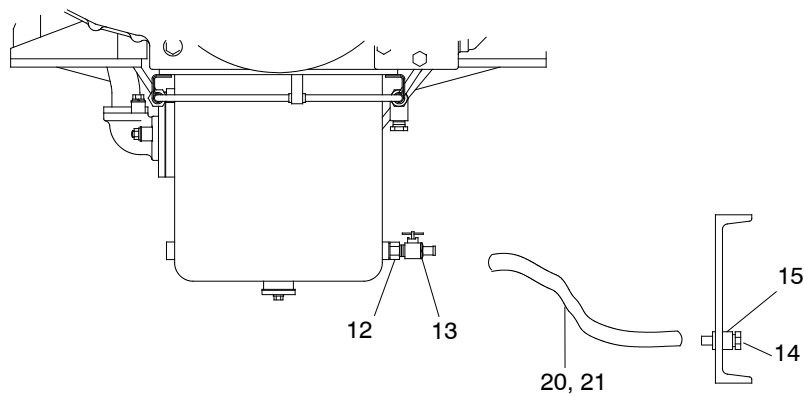
Isolation Mounting



Radiator End



Generator End



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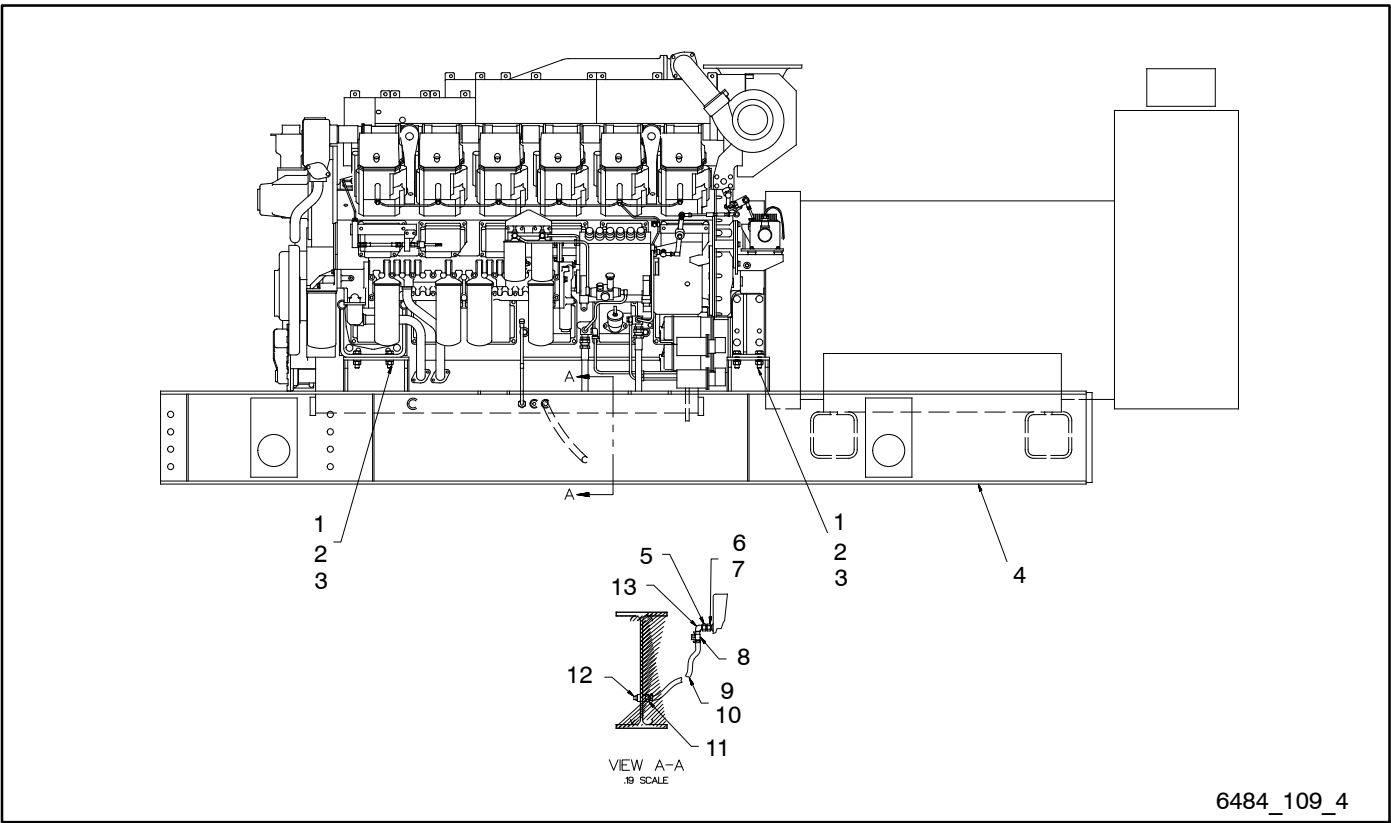
Group 109: Skid and Plant Mounting, continued

900/1000 kW

Item	Part Number	Description	Quantity							
			Module							
			GM80855-MA1	GM80855-MA2	GM80855-MA3	GM80855-MA4	GM80855-MA5	GM80855-MA6	GM80855-MA7	GM80855-MA8
1	X-6011-3	Washer, beveled, .68 ID x 1.5 in. OD	4	4	4	4	4	4	4	4
2	X-25-152	Washer, plain, 1.06 ID x 5.25 in. OD	4	4	4	4	4	4	4	4
3	M931-24160-60	Screw, hex cap	4	4	4	4	4	4	4	4
4	M982-24-60	Nut, hex elastic stop	4	4	4	4	4	4	4	4
5a	M934-20-80	Nut, hex	12	12	12	12	12	12	12	12
5b	M125A-18-80	Washer, plain	7	7	7	7	7	7	7	7
5c	M6797A-18-80	Washer, lock	1	1	1	1	1	1	1	1
6	X-22-15	Washer, lock	1	1	1	1	1	1	1	1
6	X-22-26	Washer, lock	1	1	1	1	1	1	1	1
6	X-25-26	Washer, plain	1	1	1	1	1	1	1	1
7	361919	Vibromount	2	2	2	2	2	2	2	2
8	361024	Mount, engine	2	2	2	2	2	2	2	2
9	361179	Vibromount	2	2	2	2	2	2	2	2
10	361039	Plate, generator mounting	2	2	2	2	2	2	2	2
11	GM21085	Strap, ground (16 in.)	2	2	2	2	2	2	2	2
12	X-202-41	Bushing, reducing, 1/2 x 3/4 in. NPT	1	1	1	1	1	1	1	1
13	272701	Valve, oil drain	1	1	1	1	1	1	1	1
14	X-582-1	Coupling, hose	1	1	1	1	1	1	1	1
14	X-75-28	Plug, pipe, 1/2 in.	1	1	1	1	1	1	1	1
16	GM81140	Skid	1							
16	GM80849	Skid		1						
16	GM81144	Skid			1					
16	GM80853	Skid				1				
16	GM80847	Skid					1			
16	GM80859	Skid						1		
16	GM80851	Skid							1	
16	GM81142	Skid								1
17	GM10458	Support, rear engine, RS	2	2	2	2	2	2	2	2
18	GM10459	Support, rear engine, LS	2	2	2	2	2	2	2	2
19	GM10457	Support, front engine	2	2	2	2	2	2	2	2
20	X-426-12	Clamp, hose, .69/1.25 in.	2	2	2	2	2	2	2	2
21	X-577-28	Hose, rubber, straight, .62 in. ID	1	1	1	1	1	1	1	1
22	M933-18035-60	Screw, hex cap	8	8	8	8	8	8	8	8
23	X-801-10	Washer, hardened, 1.062 ID x 2 in. OD	2	2	2	2	2	2	2	2
24	M6797A-18-80	Washer, lock	1	1	1	1	1	1	1	1

Group 109: Skid and Plant Mounting, continued

1250-2000 kW



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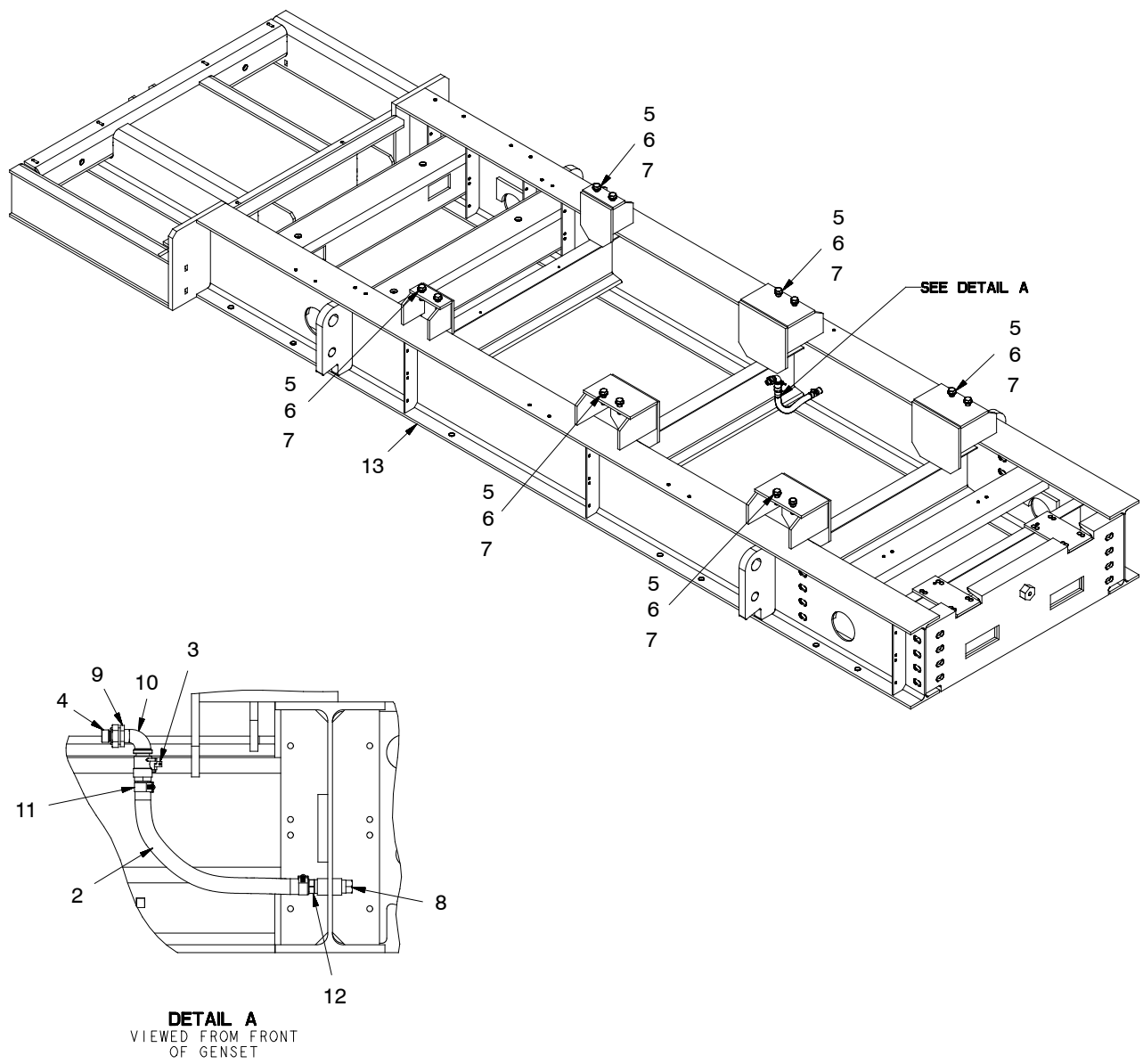
Group 109: Skid and Plant Mounting, continued

1250-2000 kW

Item	Part Number	Description	Quantity			
			Module			
			GM19377-MA3	GM19377-MA4	GM32742-MA3	GM32742-MA4
1	M933-18060-60	Screw, hex cap	12	12	8	8
2	M125A-18-80	Washer, plain	12	12	8	8
3	M934-18-80	Nut, hex	12	12	8	8
4	GM50739	Skid	1			
4	GM50774	Skid		1		
4	GM51411	Skid			1	
4	GM51410	Skid				1
5	X-202-41	Bushing, reducing, 1/2 x 3/4 in. NPT	1	1	1	1
6	GM10577	Adapter bushing	1	1	1	1
7	X-6278-4	Washer, nylon			1	1
8	272701	Valve, oil drain	1	1	1	1
9	X-577-47	Hose, rubber, straight, 0.62 in. ID	1	1	1	1
10	X-426-3	Clamp, hose, 0.56/1.06 in.	2	2	2	2
11	X-582-1	Coupling, hose	1	1	1	1
12	X-75-28	Plug, pipe, 1/2 in.	1	1	1	1
13	X-211-1	Elbow, street, 90° x 1/2 in. NPT	1	1	1	1

Group 109: Skid and Plant Mounting, continued

1250-2000 kW



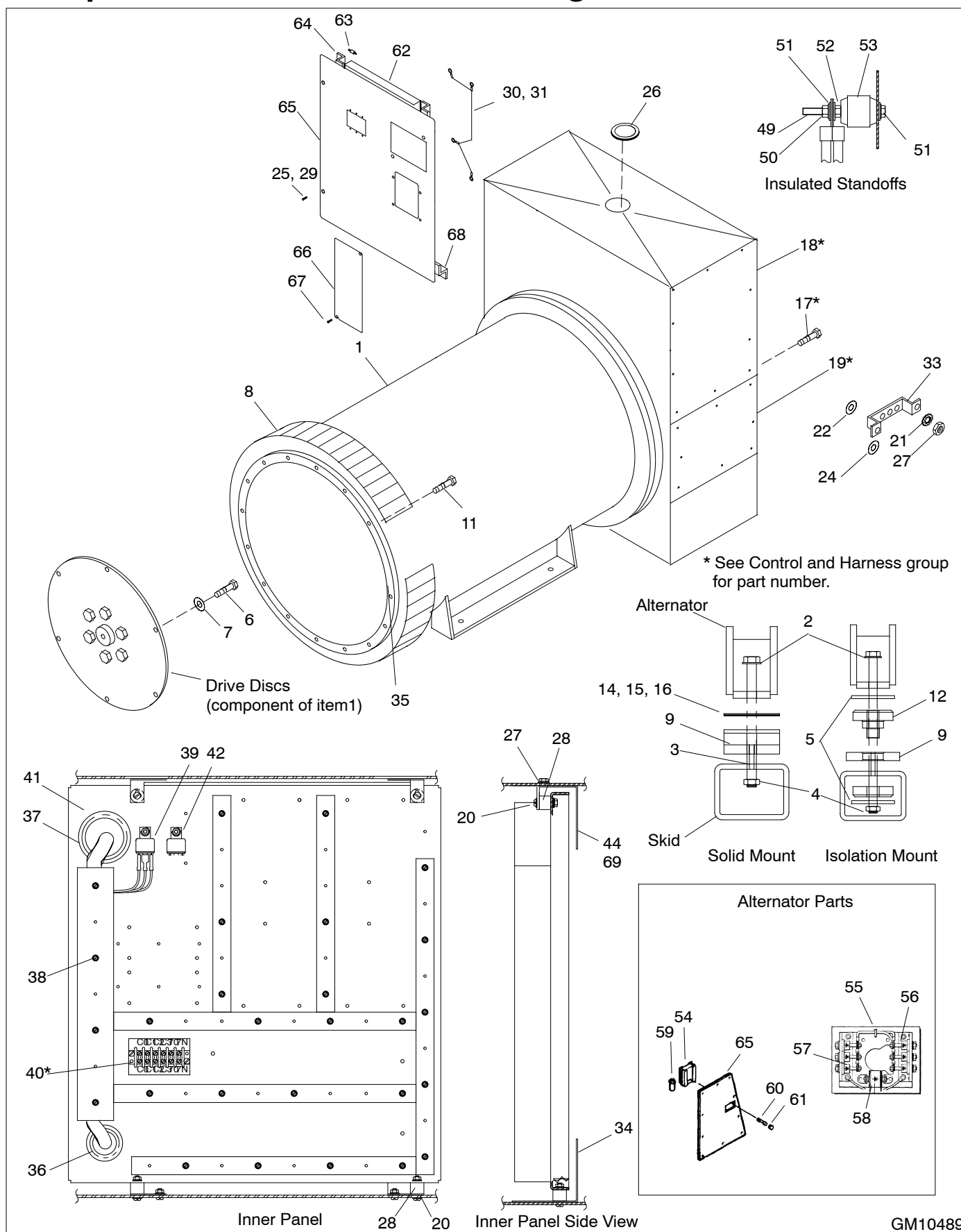
GM80627

Group 109: Skid and Plant Mounting, continued

1250-2000 kW

Item	Part Number	Description	Quantity								
			Module								
			GM80626-MA1	GM80626-MA2	GM80626-MA3	GM80626-MA4	GM80626-MA5	GM80626-MA6	GM79362-MA1	GM79362-MA2	GM79362-MA3
2	X-577-28	Hose, rubber, straight, .62 in. ID	1	1	1	1	1	1			
2	X-577-47	Hose, rubber, straight, .62 in. ID									
3	272701	Valve, oil drain	1	1	1	1	1	1	1	1	1
4	GM10577	Adapter, bushing	1	1	1	1	1	1	1	1	1
5	M125A-18-80	Washer, plain	8	8	8	8	8	8	12	12	12
6	M933-18060-60	Screw, hex cap	8	8	8	8	8	8	12	12	12
7	M934-18-80	Nut, hex	8	8	8	8	8	8	12	12	12
8	X-75-28	Plug, pipe, 1/2 in.	1	1	1	1	1	1	1	1	1
9	X-202-41	Bushing, reducing, 1/2 x 3/4 in. NPT	1	1	1	1	1	1	1	1	1
10	X-211-1	Elbow, Street(90 deg x 1/2"nptf)	1	1	1	1	1	1	1	1	1
11	X-426-12	Clamp, hose, .69/1.25 in.	2	2	2	2	2	2	2	2	2
12	X-582-1	Connector, Hose 5/8" x 1/2" MIP Brass	1	1	1	1	1	1	1	1	1
13	GM80611	Skid	1								
13	GM80612	Skid		1							
13	GM80613	Skid			1						
13	GM80614	Skid				1					
13	GM80615	Skid					1				
13	GM80616	Skid						1			
13	GM79125	Skid							1		
13	GM80623	Skid								1	
13	GM80620	Skid									1

Group 201: Alternator and Mounting



Group 201: Alternator and Mounting

600-800 kW

Item	Part Number	Description	Qty.
1	See chart below	Alternator assembly	1
2	M931-20140-60	Screw, hex cap (isolation mount)	4
2	M931-20120-60	Screw, hex cap (solid mount)	4
3	M934-20-80	Nut, hex (isolation mount)	8
4	M982-20-80	Nut, hex elastic stop (isolation mt.)	4
4	M934-20-80	Nut, hex elastic stop (solid mount)	4
5	X-25-155	Washer, plain	4
6	M961-16030-82	Screw, hex cap	6
7	X-801-5	Washer, harden., 0.656 ID x 1.06 in.	6
8	328903	Screen	1
9	361733	Plate, mounting (isolation mount)	4
9	GM30445	Plate, mounting (solid mount)	4
10	X-400-241	Spacer	4
11	M961-12050-82	Screw, hex cap, 600 kW	16
11	M931-12050-82	Screw, hex cap, 750/800 kW	16
11	M125A-12-80	Washer, hardened, 600 kW	16
11	290945	Washer, hardened, 750/800 kW	16
12	361734	Vibromount	2
13	X-400-239	Spacer	4
14	365410	Shim	4
15	365411	Shim	4
16	365412	Shim	4
17	*	Screw, hex flange machine	12
18	*	Panel, junction box, front	1
19	*	Cover, louvered	1
20	X-22-12	Washer, lock, 0.262 ID x 0.743 in.	8
21	X-22-14	Washer, lock, 0.391 ID x 0.975 in.	4
22	X-25-118	Washer, plain, 0.406 ID x 1 in. OD	4
23	X-468-9	Cable tie, NRP	2
24	X-6086-6	Washer, spring, .39 ID x .81 in. OD	2
25	X-6217-10	Screw, hex flange machine	25
26	X-634-23	Bushing, 1.968 x 2.50 in. NPT	2
27	X-83-7	Nut, hex, zinc, 3/8-16	2
28	229353	Mount, controller	4
29	295009	Retainer	2
30	GM21264	Harness, inner panel ground	1

Item	Part Number	Description	Qty.
31	361567	Base, tie wrap snapin	2
33	361271	Bus, ground	1
34	361478	Retainer, inner panel	2
35	GM10640	Guard, alternator	1
36	X-634-16	Bushing, 1.312 x 1.50 in. NPT	1
37	X-634-23	Bushing, 1.968 x 2.50 in. NPT	1
38	X-67-43	Screw, thread-cutting	27
39	272684	Relay	1
40	*	Terminal block	1
41	361186	Panel, junction box, inner	1
42	272684	Relay	1
44	365476	Bracket, inner panel	1
49	X-6274-7	Rod, threaded	3
50	X-6086-6	Washer, spring, .39 ID x .81 in. OD	6
51	X-25-118	Washer, plain, .406 ID x 1 in. OD	9
52	X-83-7	Nut, hex, 3/8-16, zinc	6
53	X-6128-29	Insulator, standoff, 3/8-16 x 2 in.	3
54	GM24876	Voltage regulator, DVR2000E	1
55	347071	Exciter rectifier assembly	1
56	279773	Diode, standard polarity	1
57	279775	Diode, reversing polarity	1
58	279776	Surge suppressor	1
59	347160	Capacitor	1
60	279778	Fuse, 5-amp	1
61	279779	Fuse cap	1
62	GM13563	Panel, inner door	1
63	282829	Vibromount	6
64	GM13562	Bracket, door panel mounting, top	2
65	GM13564	Door, junction box	1
66	GM13565	Cover, access	1
67	X-50-2	Screw, slotted pan head machine	6
68	GM13561	Bracket, door panel mtg, bottom	1
69	GM15336	Bracket, inner panel mounting	1

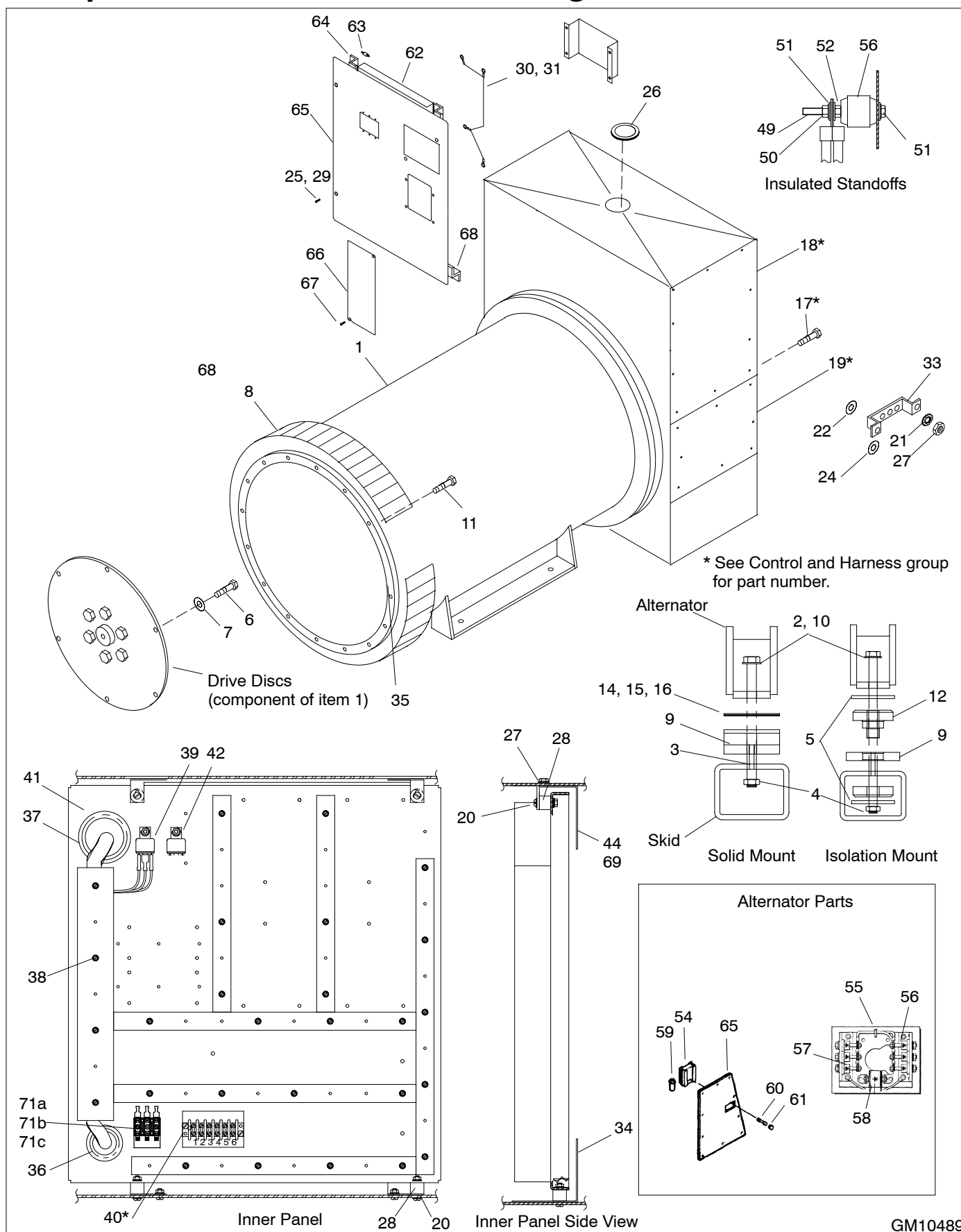
* See Control and Harness group for part number.

Alternator Part Number and Mount Type

Use this table to identify the module number's alternator part number (item 1 of the parts illustration on the previous page) and mount type.

Module Number	Mount Type	Part Number Item 1, Alternator
GM30678-MA7	Isolation	GM11976
GM30678-MA8	Isolation	A-361756
GM30678-MA9	Isolation	GM12022
GM30678-MA10	Isolation	GM12023
GM30678-MA11	Isolation	A-361760
GM31730-MA1	Isolation	A-361756
GM31730-MA2	Solid	A-361756
GM31730-MA3	Isolation	A-361757
GM31730-MA4	Solid	A-361757
GM31730-MA5	Isolation	A-361758
GM31730-MA6	Solid	A-361758
GM31730-MA7	Isolation	A-361762
GM31730-MA8	Solid	A-361762
GM31730-MA11	Isolation	A-361759
GM31730-MA12	Solid	A-361759
GM31730-MA13	Isolation	A-361763
GM31730-MA14	Solid	A-361763
GM31730-MA15	Isolation	A-361760
GM31730-MA16	Solid	A-361760
GM31730-MA17	Isolation	A-361761
GM31730-MA18	Solid	A-361761
GM31730-MA19	Isolation	A-361764
GM31730-MA20	Solid	A-361764

Group 201: Alternator and Mounting, continued



Group 201: Alternator and Mounting, continued

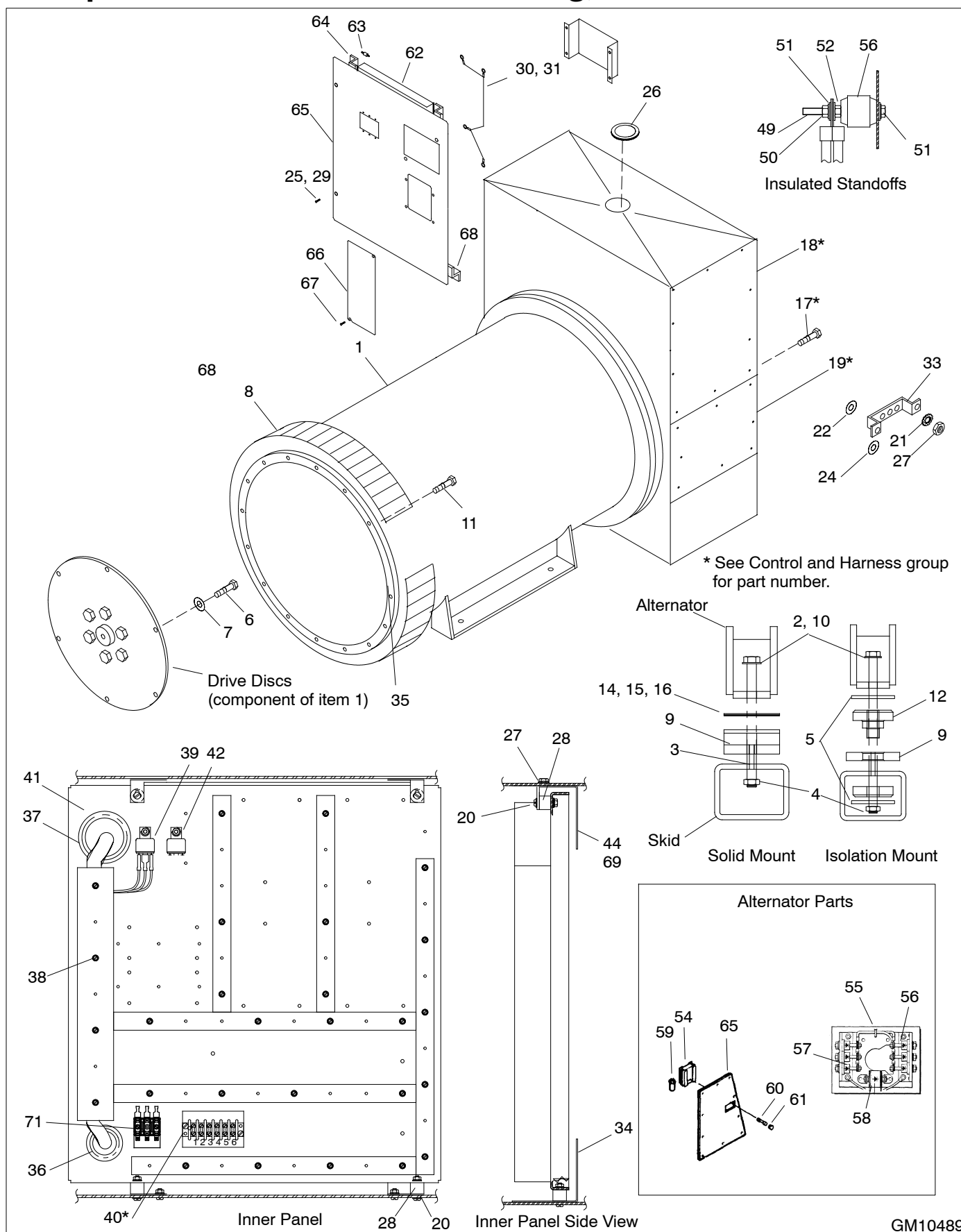
900-2000 kW

Item	Part Number	Description	Qty.
1	See chart	Alternator assembly	1
2	See chart	Screw, hex cap	4
3	M934-20-80	Nut, hex, 900/1000 kW	8
4	See chart	Nut, hex	4
5	X-25-152	Washer, plain, 1.06 ID x 5.25 in. OD	8
6	See chart	Screw, hex cap	6
7	X-801-5	Washer, hardened, 0.656 ID x 1.06 in. OD	6
8	GM10562	Screen (7M frames)	1
8	328903	Screen (5M frames)	1
8	328904	Screen, 1250-2000 kW	1
9	361039	Plate, generator mtg. (iso. mt.)	4
9	361061	Plate, generator mtg., 900/1000 kW (solid mount)	4
10	X-400-241	Spacer, 900/1000 kW (solid mount)	4
10	X-801-10	Washer, hardened, 1250-2000 kW	4
11	See chart	Screw, hex cap	16
12	361919	Vibromount, isolation mount	4
13	X-400-239	Spacer	4
14	290743	Shim, 16 gauge	4
15	290744	Shim, 7 gauge	4
16	291191	Shim, spring	4
17	*	Screw, hex flange machine	12
18	*	Panel, junction box, front	1
19	*	Cover, louvered	1
20	X-22-12	Washer, lock, .262 ID x .743 in. OD	8
21	X-22-14	Washer, lock, .391 ID x .975 in. OD	4
22	X-25-118	Washer, plain, .406 ID x 1 in. OD	4
23	X-468-9	Cable tie	2
24	X-6086-6	Washer, spring, .39 ID x .81 in. OD	2
25	X-6214-10	Screw, hex flange machine	25
26	X-634-23	Bushing, 1.968 x 2.50 in. NPT	2
27	X-83-7	Nut, hex, 3/8-16, zinc	2
28	229353	Mount, controller	4

Item	Part Number	Description	Qty.
29	295009	Retainer	2
30	GM21264	Harness, inner panel ground	1
31	361567	Base, tie wrap snapin	2
33	361271	Bus, ground	1
34	361478	Retainer, inner panel	2
35	GM10640	Guard, alternator	1
36	X-634-16	Bushing, 1.312 x 1.50 in. NPT	1
37	X-634-23	Bushing, 1.968 x 2.50 in. NPT	1
38	X-67-43	Screw, slotted hex washer	27
39	272684	Relay	1
39	GM49747	Relay (GM58144- only)	1
40	295314	Terminal block	1
41	361186	Panel, junction box, inner	1
42	272684	Relay	1
42	-	Relay (GM58144- only: see Group 301)	1
44	365476	Bracket, inner panel	1
49	X-6274-7	Rod, threaded	3
50	X-6086-6	Washer, spring, .39 ID x .81 in. OD	6
51	X-25-118	Washer, plain, .406 ID x 1 in. OD	9
52	X-83-7	Nut, hex, 3/8-16, zinc	6
53	X-6128-29	Standoff insulator, 3/8-16 x 2 in.	3
54	GM24876	Voltage regulator, DVR2000E	1
55	347070	Exciter rectifier assembly	1
56	279773	Diode, standard polarity	1
57	279775	Diode, reversing polarity	1
58	279777	Surge suppressor	1
59	347160	Capacitor	1
60	279778	Fuse, 5-amp	1
61	279779	Fuse cap	1
62	GM13563	Panel, inner door	1
63	282829	Vibromount	6
64	GM13562	Bracket, door panel mounting, top	2
65	GM13564	Door, junction box	1
66	GM13565	Cover, access	1
67	X-50-2	Screw, slotted pan head machine	6
68	GM13561	Bracket, door panel mtg., bottom	1
69	GM15336	Bracket, inner panel mounting	1
70	GM57630	Bracket, Mounting (GM58144- only)	1
71a	292821	Fuse holder (GM58144- only)	1
71b	GM58321	Strip, Marker (GM58144- only)	1
71c	358337	Fuse, 10 A, 250 V (GM58144- only)	2

* See Control and Harness group for part number.

Group 201: Alternator and Mounting, continued



Group 201: Alternator and Mounting, continued

900-2000 kW, continued

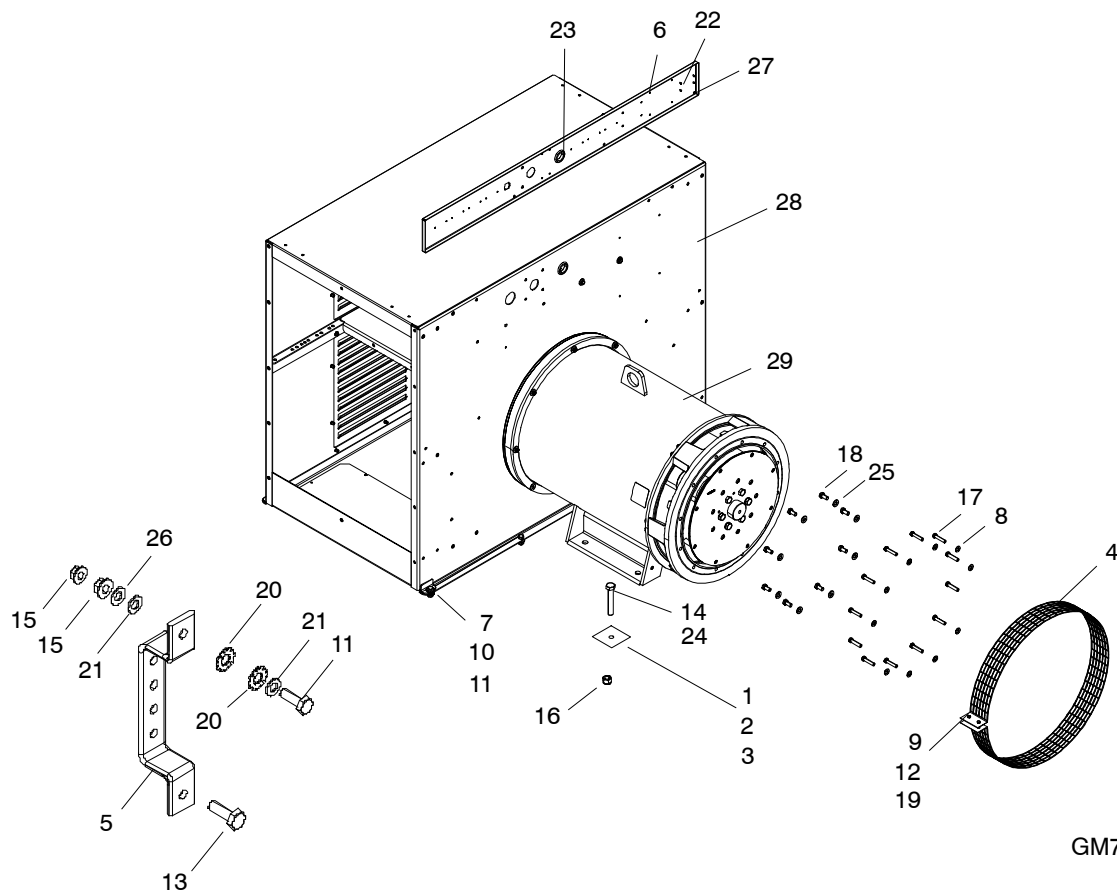
Alternator Part Number and Mount Type

Use this table to identify the module number's alternator part number (item 1), mount type and items 2, 4, 6, and 11.

Module Number	Alternator Part Number	Mount Type	Item 2, Screw, HC	Item 4, Nut, Hex	Item 6, Screw, HC	Item 11, Screw, HC
GM16900-MA1	F-361007	Solid	M933-24065-60	M934-24-80	M961-16045-82	M961-14050-82
GM16900-MA2	F-361008	Solid	M933-24065-60	M934-24-80	M961-16045-82	M961-14050-82
GM16900-MA3	F-361011	Solid	M933-24065-60	M934-24-80	M961-16045-82	M961-14050-82
GM16900-MA4	F-361014	Solid	M933-24065-60	M934-24-80	M961-16045-82	M961-14050-82
GM16900-MA5	F-361018	Solid	M933-24065-60	M934-24-80	M961-16045-82	M961-14050-82
GM16900-MA6	B-361005	Solid	M933-24065-60	M934-24-80	M961-16045-82	M961-14050-82
GM16900-MA7	B-361006	Solid	M933-24065-60	M934-24-80	M961-16045-82	M961-14050-82
GM16900-MA8	B-361010	Solid	M933-24065-60	M934-24-80	M961-16045-82	M961-14050-82
GM16900-MA9	B-361013	Solid	M933-24065-60	M934-24-80	M961-16045-82	M961-14050-82
GM16900-MA10	F-361016	Solid	M933-24065-60	M934-24-80	M961-16045-82	M961-14050-82
GM16900-MA11	F-361017	Solid	M933-24065-60	M934-24-80	M961-16045-82	M961-14050-82
GM16900-MA12	A-361003	Solid	M933-24065-60	M934-24-80	M961-16030-82	M961-14050-82
GM16900-MA13	B-361004	Solid	M933-24065-60	M934-24-80	M961-16045-82	M961-14050-82
GM16900-MA14	B-361009	Solid	M933-24065-60	M934-24-80	M961-16045-82	M961-14050-82
GM16900-MA15	B-361012	Solid	M933-24065-60	M934-24-80	M961-16045-82	M961-14050-82
GM16900-MA16	B-361015	Solid	M933-24065-60	M934-24-80	M961-16045-82	M961-14050-82
GM16900-MA17	GM41659	Solid	M933-24065-60	M934-24-80	M961-16045-82	M961-14050-82
GM16900-MA18	GM47964	Solid	M933-24065-60	M934-24-80	M961-16045-82	M961-14050-82
GM31617-MA1	A-361758	Isolation	M931-20160-60	M982-20-80	M933-16030-82	M961-12050-82
GM31617-MA2	A-361758	Solid	M931-20120-60	M934-20-80	M933-16030-82	M961-12050-82
GM31617-MA3	A-361762	Isolation	M931-20160-60	M982-20-80	M933-16030-82	M961-12050-82
GM31617-MA4	A-361762	Solid	M931-20120-60	M934-20-80	M933-16030-82	M961-12050-82
GM31617-MA5	A-361765	Isolation	M931-20160-60	M982-20-80	M933-16030-82	M961-12050-82
GM31617-MA6	A-361765	Solid	M931-20120-60	M934-20-80	M933-16030-82	M961-12050-82
GM31617-MA7	GM10490	Isolation	M931-24160-60	M982-24-60	M933-16030-82	M961-12040-82
GM31617-MA8	GM10490	Solid	M931-24120-60	M934-24-80	M933-16030-82	M961-12040-82
GM31617-MA9	A-361763	Isolation	M931-20160-60	M982-20-80	M933-16030-82	M961-12050-82
GM31617-MA10	A-361763	Solid	M931-20120-60	M934-20-80	M933-16030-82	M961-12050-82
GM31617-MA11	GM10549	Isolation	M931-24160-60	M982-24-60	M933-16045-82	M961-12040-82
GM31617-MA12	GM10549	Solid	M931-24120-60	M934-24-80	M933-16045-82	M961-12040-82
GM31617-MA13	A-361764	Isolation	M931-20160-60	M982-20-80	M933-16030-82	M961-12050-82
GM31617-MA14	A-361764	Solid	M931-20120-60	M934-20-80	M933-16030-82	M961-12050-82
GM31617-MA15	GM10550	Isolation	M931-24160-60	M982-24-60	M933-16045-82	M961-12040-82
GM31617-MA16	GM10550	Solid	M931-24120-60	M934-24-80	M933-16045-82	M961-12040-82
GM31617-MA17	GM10551	Isolation	M931-24160-60	M982-24-60	M933-16045-82	M961-12040-82
GM31617-MA18	GM10551	Solid	M931-24120-60	M934-24-80	M933-16045-82	M961-12040-82
GM58144-MA1	A-361758	Isolation	M931-20160-60	M982-20-80	M933-16030-82	M961-12050-82
GM58144-MA2	A-361758	Solid	M931-20120-60	M934-20-80	M933-16030-82	M961-12050-82
GM58144-MA3	A-361762	Isolation	M931-20160-60	M982-20-80	M933-16030-82	M961-12050-82
GM58144-MA4	A-361762	Solid	M931-20120-60	M934-20-80	M933-16030-82	M961-12050-82
GM58144-MA5	A-361765	Isolation	M931-20160-60	M982-20-80	M933-16030-82	M961-12050-82
GM58144-MA6	A-361765	Solid	M931-20120-60	M934-20-80	M933-16030-82	M961-12050-82
GM58144-MA7	GM10490	Isolation	M931-24160-60	M982-24-60	M933-16030-82	M961-12040-82
GM58144-MA8	GM10490	Solid	M931-24120-60	M934-24-80	M933-16030-82	M961-12040-82
GM58144-MA9	A-361763	Isolation	M931-20160-60	M982-20-80	M933-16030-82	M961-12050-82
GM58144-MA10	A-361763	Solid	M931-20120-60	M934-20-80	M933-16030-82	M961-12050-82
GM58144-MA11	GM10549	Isolation	M931-24160-60	M982-24-60	M933-16045-82	M961-12040-82
GM58144-MA12	GM10549	Solid	M931-24120-60	M934-24-80	M933-16045-82	M961-12040-82
GM58144-MA13	A-361764	Isolation	M931-20160-60	M982-20-80	M933-16030-82	M961-12050-82
GM58144-MA14	A-361764	Solid	M931-20120-60	M934-20-80	M933-16030-82	M961-12050-82
GM58144-MA15	GM10550	Isolation	M931-24160-60	M982-24-60	M933-16045-82	M961-12040-82
GM58144-MA16	GM10550	Solid	M931-24120-60	M934-24-80	M933-16045-82	M961-12040-82
GM58144-MA17	GM10551	Isolation	M931-24160-60	M982-24-60	M933-16045-82	M961-12040-82
GM58144-MA18	GM10551	Solid	M931-24120-60	M934-24-80	M933-16045-82	M961-12040-82

Group 201: Alternator and Mounting, continued

GM79361-



GM79361-

Item	Part No.	Description	Qty.
1	290743	Shim	AR
2	290744	Shim	AR
3	291191	Shim	AR
4	328904	Screen	1
5	361271	Bus, ground	1
6	GM75910	Panel, Component Mtg.	1
7	M125A-10-80	Washer, Plain	7
8	M125A-14-80	Washer, Plain	16
9	M6923-06-80	Nut, Hex 6mm	2
10	M6923-10-80	Nut, Hex 10mm	8
11	M931-10040-60	Screw, Hex Head	9
12	M933-06040-60	Screw, Hex Cap	2
13	M933-10030-60	Screw, Hex Cap	1
14	M933-24065-60	Screw, Hex Cap	4
15	M934-10-60	Nut, hex	3
16	M934-24-80	Nut, hex	4
17	M961-14050-82	Screw, Hex Head	16
18	M961-16045-82	Screw, Hex Head	12
19	X-22-12	Washer, lock	2
20	X-22-15	Washer, lock	6
21	X-25-118	Washer, plain, .406 ID x 1 in. OD	4
22	X-67-59	Screw, hex washer, thread-forming	4
23	X-284-23	Grommet	1
24	X-801-10	Washer, hardened, 1.062 ID x 2 in. OD	4
25	X-801-5	Washer, hardened, .656 ID x 1.06 in. OD	12
26	X-6086-6	Washer, spring	2
27	X-6210-2	Nut, flange spirallock, 1/4-20	8
28	See chart	Junction Box Assembly	1
29	See chart	Alternator Assy	1

Group 201: Alternator and Mounting, continued

Use this table to identify the module number's alternator part number and junction box part number.

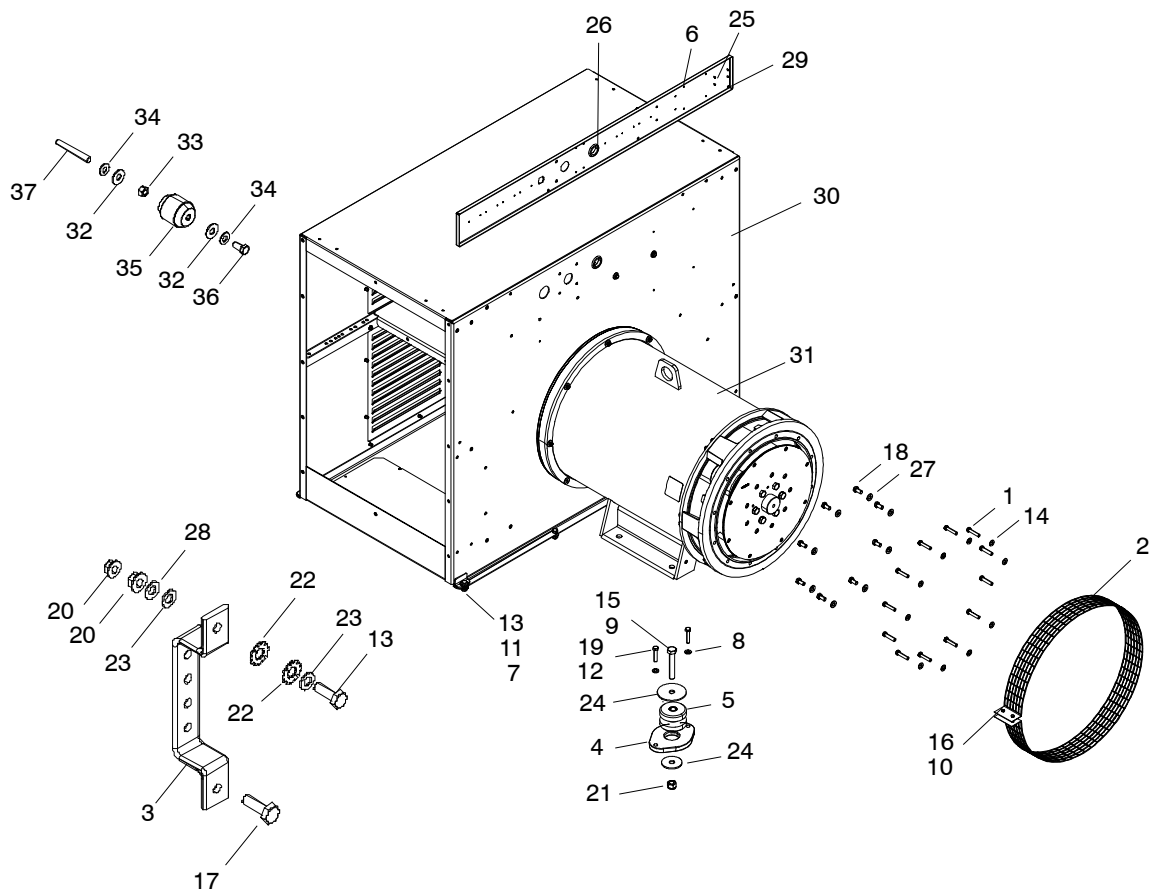
Module No.	Alternator Description	Item 28, Junction Box Assembly	Item 29, Alternator Assembly
GM79361-MA1	7M4046	GM75930-2**	GM77510-1
GM79361-MA2	7M4048	GM75930-3**	GM77510-2
GM79361-MA3	7M4050	GM75930-3**	GM77510-3
GM79361-MA4	7M4172	GM75930-3**	GM77510-4
GM79361-MA5	7M4366	GM75930-3**	GM77510-5
GM79361-MA6	7M4052	GM75930-3**	GM77511-1
GM79361-MA7	7M4054	GM75930-3**	GM77511-2
GM79361-MA8	7M4056	GM75930-3**	GM77511-3
GM79361-MA9	7M4058	GM75930-3**	GM77511-4
GM79361-MA10	7M4174	GM75930-3**	GM77511-5
GM79361-MA11	7M4176	GM75930-3**	GM77511-6
GM79361-MA12	7M4288	GM75930-3**	GM77511-7
GM79361-MA13	7M4290	GM75930-3**	GM77511-8
GM79361-MA14	7M4292	GM75930-3**	GM77511-9
GM79361-MA15	7M4368	GM75930-3**	GM77511-10
GM79361-MA16	7M4370	GM75930-3**	GM77511-11
GM79361-MA17	7M4374	GM75930-3**	GM77511-12
GM79361-MA18	7M4376	GM75930-3	GM77511-13

** Use the Kit number and chart below to identify the color suffix.
Add a suffix to this color dependent part number before ordering.

Kit No.	Color Dependent Parts	
	Part Number Suffix	Part Number Example (item 28)
GM79361-MA1-BLK	-BLK	GM75930-2-BLK
GM79361-MA2-BLK	-BLK	GM75930-3-BLK
GM79361-MA3-BLK	-BLK	GM75930-3-BLK
GM79361-MA4-BLK	-BLK	GM75930-3-BLK
GM79361-MA5-BLK	-BLK	GM75930-3-BLK
GM79361-MA6-BLK	-BLK	GM75930-3-BLK
GM79361-MA7-BLK	-BLK	GM75930-3-BLK
GM79361-MA8-BLK	-BLK	GM75930-3-BLK
GM79361-MA9-BLK	-BLK	GM75930-3-BLK
GM79361-MA10-BLK	-BLK	GM75930-3-BLK
GM79361-MA11-BLK	-BLK	GM75930-3-BLK
GM79361-MA12-BLK	-BLK	GM75930-3-BLK
GM79361-MA13-BLK	-BLK	GM75930-3-BLK
GM79361-MA14-BLK	-BLK	GM75930-3-BLK
GM79361-MA15-BLK	-BLK	GM75930-3-BLK
GM79361-MA16-BLK	-BLK	GM75930-3-BLK
GM79361-MA17-BLK	-BLK	GM75930-3-BLK

Group 201: Alternator and Mounting, continued

GM80796-



GM80796-

Group 201: Alternator and Mounting, continued

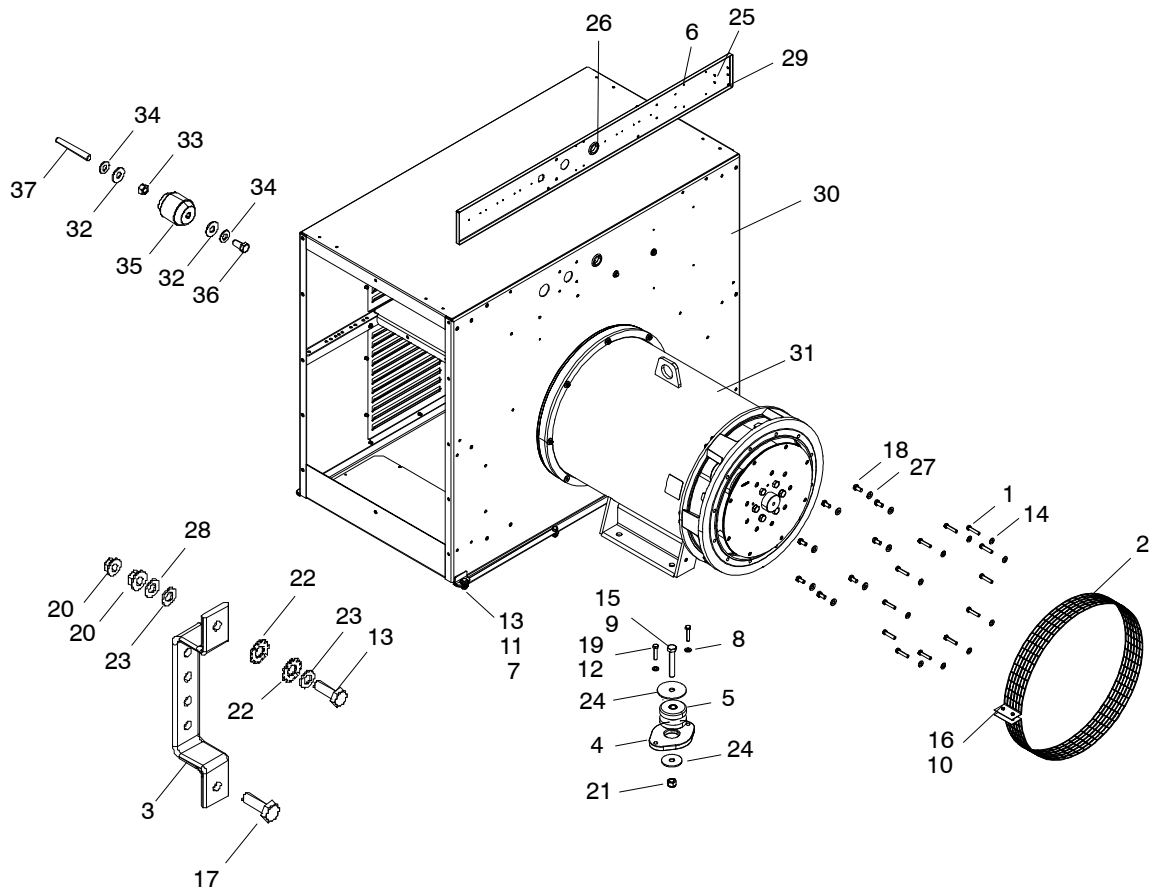
Item	Part Number	Description	Quantity		
			Module		
			GM80796-MA1	GM80796-MA2	GM80796-MA3
1	290945	Washer, hardened, .531 IDx1.06 in.OD	16	16	16
2	328903	Screen	1	1	1
3	361271	Bus, ground	1	1	1
4	361733	Plate, generator mounting	4	4	4
5	361734	Vibromount	4	4	4
6	GM75910	Panel, Component Mtg.	1	1	1
7	M125A-10-80	Washer, Plain	7	7	7
8	M125A-16-80	Washer, Plain	8	8	8
9	M125A-20-80	Washer, Plain	4	4	4
10	M6923-06-80	Nut, Hex 6mm	2	2	2
11	M6923-10-80	Nut, Hex	8	8	8
12	M6923-16-80	Nut, hex	8	8	8
13	M931-10040-60	Screw, Hex Head	9	9	9
14	M931-12050-82	Screw, Hex Cap	16	16	16
15	M931-20140-60	Screw, Hex Head	4	4	4
16	M933-06050-60	Screw, Hex Cap	2	2	2
17	M933-10030-60	Screw, Hex Cap	1	1	1
18	M933-16030-82	Screw, Hex Cap	6	6	6
19	M933-16060-60	Screw, Hex Head	8	8	8
20	M934-10-60	Nut, hex	3	3	3
21	M982-20-80	Nut, hex elastic stop	4	4	4
22	X-22-15	Washer, lock	6	6	6
23	X-25-118	Washer, plain, .406 ID x 1 in. OD	4	4	4
24	X-25-155	Washer, plain	8	8	8
25	X-67-59	Screw, hex washer, thread-forming	4	4	4
26	X-284-23	Grommet	1	1	1
27	X-801-5	Washer, hardened, .656 ID x 1.06 in. OD	6	6	6
28	X-6086-6	Washer, spring	2	2	2
29	X-6210-2	Nut, flange spirallock, 1/4-20	8	8	8
30	GM75930-2**	Junction Box Assembly 5M (See page 60)	1	1	1
31	GM77507-2	Alternator Assy, 5M4032	1		
31	GM77507-3	Alternator Assy, 5M4034		1	
31	GM77507-11	Alternator Assy, 5M4276			1
32	X-25-118	Washer, plain, .406 ID x 1 in. OD	6	6	
33	X-83-7	Nut, hex, 3/8-16, zinc	3	3	
34	X-6086-6	Washer, spring, .39 ID x .81 in. OD	6	6	
35	X-6128-29	Standoff insulator, 3/8-16 x 2 in.	3	3	
36	X-6238-10	Bolt, Hex Cap	3	3	
37	X-6274-7	Stud	3	3	

** Use the Kit number and chart below to identify the color suffix.
Add a suffix to this color dependent part number before ordering.

Kit No.	Color Dependent Parts	
	Part Number Suffix	Part Number Example (item 30)
GM80796-MA1-BLK	-BLK	GM75930-2-BLK
GM80796-MA2-BLK	-BLK	GM75930-2-BLK
GM80796-MA3-BLK	-BLK	GM75930-2-BLK

Group 201: Alternator and Mounting, continued

GM81167-



GM81167-

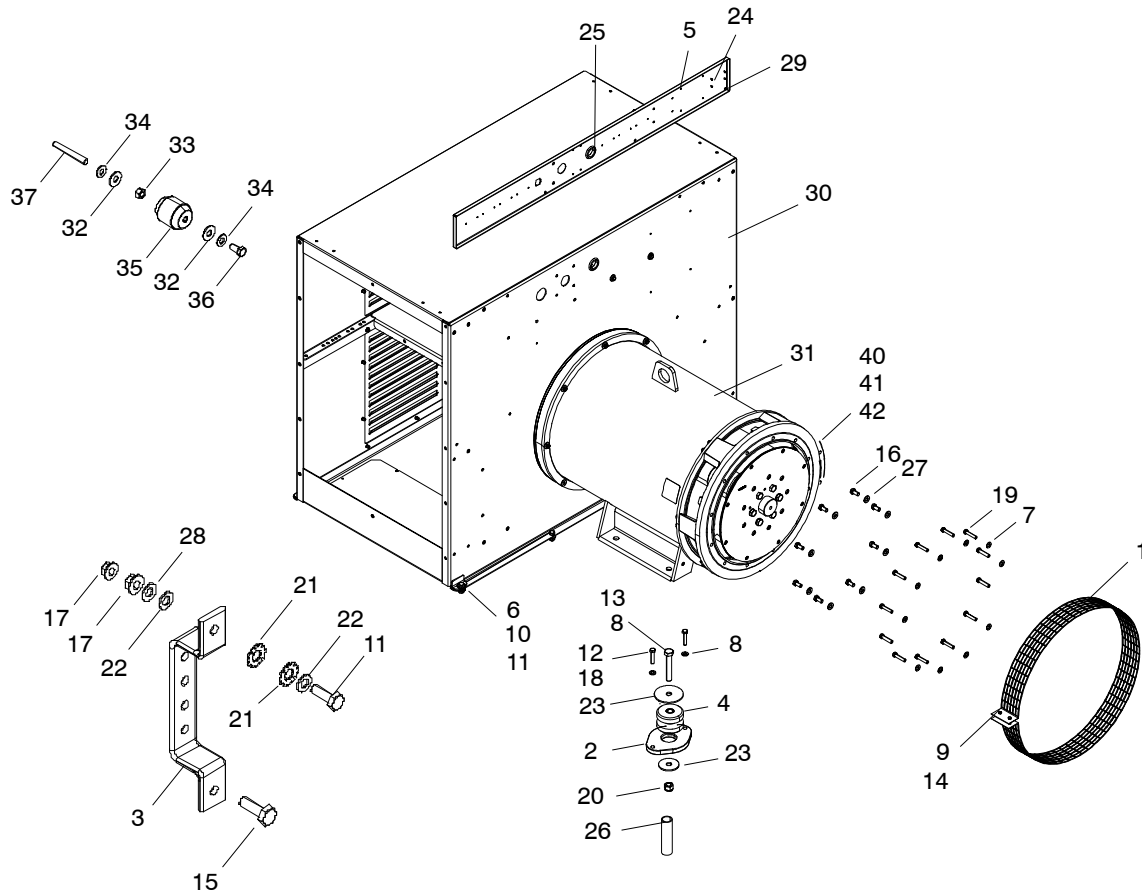
Group 201: Alternator and Mounting, continued

Item	Part Number	Description	Quantity					
			Module					
			GM81167-MA1	GM81167-MA2	GM81167-MA3	GM81167-MA4	GM81167-MA5	GM81167-MA6
1	290945	Washer, hardened, .531 IDx1.06 in.OD	16	16	16	16	16	16
2	328903	Screen	1	1	1	1	1	1
3	361271	Bus, ground	1	1	1	1	1	1
4	361733	Plate, generator mounting	4	4	4	4	4	4
5	361734	Vibromount	4	4	4	4	4	4
6	GM75910	Panel, Component Mtg.	1	1	1	1	1	1
7	M125A-10-80	Washer, Plain	7	7	7	7	7	7
8	M125A-16-80	Washer, Plain	8	8	8	8	8	8
9	M125A-20-80	Washer, Plain	4	4	4	4	4	4
10	M6923-06-80	Nut, Hex 6mm	2	2	2	2	2	2
11	M6923-10-80	Nut, Hex	8	8	8	8	8	8
12	M6923-16-80	Nut, hex	8	8	8	8	8	8
13	M931-10040-60	Screw, Hex Head	9	9	9	9	9	9
14	M931-12050-82	Screw, Hex Cap	16	16	16	16	16	16
15	M931-20140-60	Screw, Hex Head	4	4	4	4	4	4
16	M933-06050-60	Screw, Hex Cap	2	2	2	2	2	2
17	M933-10030-60	Screw, Hex Cap	1	1	1	1	1	1
18	M933-16030-82	Screw, Hex Cap	6	6	6	6	6	6
19	M933-16060-60	Screw, Hex Head	8	8	8	8	8	8
20	M934-10-60	Nut, hex	3	3	3	3	3	3
21	M982-20-80	Nut, hex elastic stop	4	4	4	4	4	4
22	X-22-15	Washer, lock	6	6	6	6	6	6
23	X-25-118	Washer, plain, .406 ID x 1 in. OD	4	4	4	4	4	4
24	X-25-155	Washer, plain	8	8	8	8	8	8
25	X-67-59	Screw, hex washer, thread-forming	4	4	4	4	4	4
26	X-284-25	Grommet	1	1	1	1	1	1
27	X-801-5	Washer,hardened, .656 ID x 1.06 in. OD	6	6	6	6	6	6
28	X-6086-6	Washer,spring	2	2	2	2	2	2
29	X-6210-2	Nut, flange spirallock, 1/4-20	8	8	8	8	8	8
30	GM75930-2**	Junction Box Assembly 5M (See page 60)	1	1	1	1	1	1
31	GM77507-4	Alternator Assy, 5M4036	1					
31	GM77507-5	Alternator Assy, 5M4038		1				
31	GM77507-8	Alternator Assy, 5M4166			1			
31	GM77507-9	Alternator Assy, 5M4168				1		
31	GM77507-12	Alternator Assy, 5M4278					1	
31	GM77507-13	Alternator Assy, 5M4280						1
32	X-25-118	Washer, plain, .406 ID x 1 in. OD	6					
33	X-83-7	Nut, hex, 3/8-16, zinc	3					
34	X-6086-6	Washer,spring, .39 ID x .81 in. OD	6					
35	X-6128-29	Standoff insulator, 3/8-16 x 2 in.	3					
36	X-6238-10	Bolt, Hex Cap	3					
37	X-6274-7	Stud	3					

** Use the Kit number and chart below to identify the color suffix.
Add a suffix to this color dependent part number before ordering.

Kit No.	Color Dependent Parts	
	Part Number Suffix	Part Number Example (item 30)
GM81167-MA1-BLK	-BLK	GM75930-2-BLK
GM81167-MA2-BLK	-BLK	GM75930-2-BLK
GM81167-MA3-BLK	-BLK	GM75930-2-BLK
GM81167-MA4-BLK	-BLK	GM75930-2-BLK
GM81167-MA5-BLK	-BLK	GM75930-2-BLK
GM81167-MA6-BLK	-BLK	GM75930-2-BLK

GM81156-, GM81157-



GM81157-

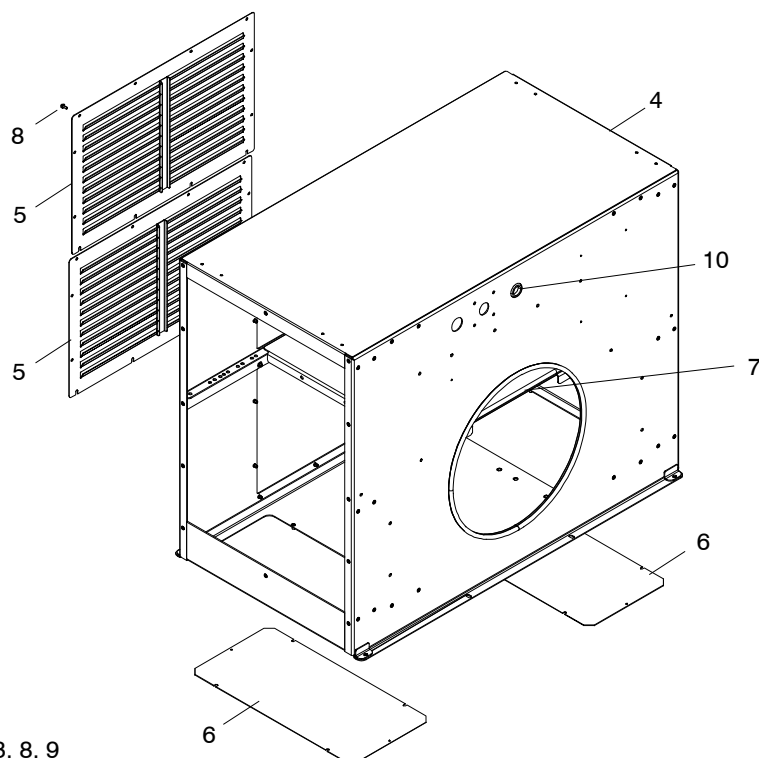
Group 201: Alternator and Mounting, continued

Item	Part Number	Description	Quantity								
			Module								
			GM81156-MA1	GM81156-MA2	GM81156-MA3	GM81156-MA4	GM81156-MA5	GM81157-MA1	GM81157-MA2	GM81157-MA3	GM81157-MA4
1	328903	Screen	1	1	1	1	1				
1	GM10562	Screen						1	1	1	1
2	361039	Plate, generator mounting	4	4	4	4	4	4	4	4	4
3	361271	Bus, ground	1	1	1	1	1	1	1	1	1
4	361919	Vibromount	4	4	4	4	4	4	4	4	4
5	GM75910	Panel, Component Mtg.	1	1	1	1	1	1	1	1	1
6	M125A-10-80	Washer, Plain	7	7	7	7	7	7	7	7	7
7	M125A-12-80	Washer, Plain	16	16	16	16	16	16	16	16	16
8	M125A-20-80	Washer, Plain	12	12	12	12	12	8	8	8	8
8	M125A-24-80	Washer, Plain						4	4	4	4
9	M6923-06-80	Nut, Hex 6mm	2	2	2	2	2	2	2	2	2
10	M6923-10-80	Nut, Hex 10mm	8	8	8	8	8	8	8	8	8
11	M931-10040-60	Screw, Hex Head	9	9	9	9	9	9	9	9	9
12	M931-20065-60	Screw, Hex Cap	8	8	8	8	8	8	8	8	8
13	M931-20160-60	Screw, Hex Head	4	4	4	4	4				
13	M931-24160-60	Screw, Hex Head						4	4	4	4
14	M933-06050-60	Screw, Hex Cap	2	2	2	2	2	2	2	2	2
15	M933-10030-60	Screw, Hex Cap	1	1	1	1	1	1	1	1	1
16	M933-16030-82	Screw, Hex Cap	6	6	6	6	6	6			
16	M933-16045-82	Screw, Hex Cap							6	6	6
17	M934-10-60	Nut, hex	3	3	3	3	3	3	3	3	3
18	M934-20-80	Nut, hex	8	8	8	8	8	8	8	8	8
19	M961-12050-82	Screw, Hex Head	16	16	16	16	16				
19	M933-12040-82	Screw, Hex Head						16	16	16	16
20	M982-20-80	Nut, hex	4	4	4	4	4				
20	M982-24-60	Nut, hex						4	4	4	4
21	X-22-15	Washer, lock	6	6	6	6	6	6	6	6	6
22	X-25-118	Washer, plain, .406 ID x 1 in. OD	4	4	4	4	4	4	4	4	4
23	X-25-152	Washer, plain	8	8	8	8	8	8	8	8	8
24	X-67-59	Screw, hex washer, thread-forming	4	4	4	4	4	4	4	4	4
25	X-284-23	Grommet	1	1	1	1	1	1	1	1	1
26	X-400-239	Spacer	4	4	4	4	4				
27	X-801-5	Washer,hardened, .656 ID x 1.06 in. OD	6	6	6	6	6	6	6	6	6
28	X-6086-6	Washer,spring	2	2	2	2	2	2	2	2	2
29	X-6210-2	Nut, flange spirallock, 1/4-20	8	8	8	8	8	8	8	8	8
30	GM75930-2**	Junction Box Assembly 5M (See page 60)	1	1	1	1	1	1			
30	GM75930-3**	Junction Box Assembly 7M (See page 60)	1						1	1	1
31	GM77507-4	Alternator Assy, 5M4036		1							
31	GM77507-5	Alternator Assy, 5M4038									
31	GM77507-9	Alternator Assy, 5M4168			1						
31	GM77507-13	Alternator Assy, 5M4280				1					
31	GM77507-6	Alternator Assy, 5M4044					1				
31	GM77509-2	Alternator Assy, 7M4046						1			
31	GM77509-4	Alternator Assy, 7M4170							1		
31	GM77509-6	Alternator Assy, 7M4282								1	
31	GM77509-8	Alternator Assy, 7M4284									1
32	X-25-118	Washer, plain, .406 ID x 1 in. OD	6								
33	X-83-7	Nut, hex, 3/8-16, zinc	3								
34	X-6086-6	Washer,spring, .39 ID x .81 in. OD	6								
35	X-6128-29	Standoff insulator, 3/8-16 x 2 in.	3								
36	X-6238-10	Bolt, Hex Cap	3								
37	X-6274-7	Stud	3								
40	GM10640	Guard, alternator						1	1	1	1
41	X-6210-7	Nut, flange spirallock, 5/16-28						2	2	2	2
42	X-6238-1	Bolt, Hex Cap						2	2	2	2

** Use the Kit number and chart below to identify the color suffix.
Add a suffix to this color dependent part number before ordering.

Kit No.	Color Dependent Parts	
	Part Number Suffix	Part Number Example (item 30)
GM81156-MA1-BLK	-BLK	GM75930-2-BLK
GM81156-MA2-BLK	-BLK	GM75930-2-BLK
GM81156-MA3-BLK	-BLK	GM75930-2-BLK
GM81156-MA4-BLK	-BLK	GM75930-2-BLK
GM81156-MA5-BLK	-BLK	GM75930-2-BLK
GM81157-MA1-BLK	-BLK	GM75930-2-BLK
GM81157-MA2-BLK	-BLK	GM75930-3-BLK
GM81157-MA3-BLK	-BLK	GM75930-3-BLK
GM81157-MA4-BLK	-BLK	GM75930-3-BLK

Group 201: Alternator and Mounting, continued



Items not shown: 3, 8, 9

GM75930-D

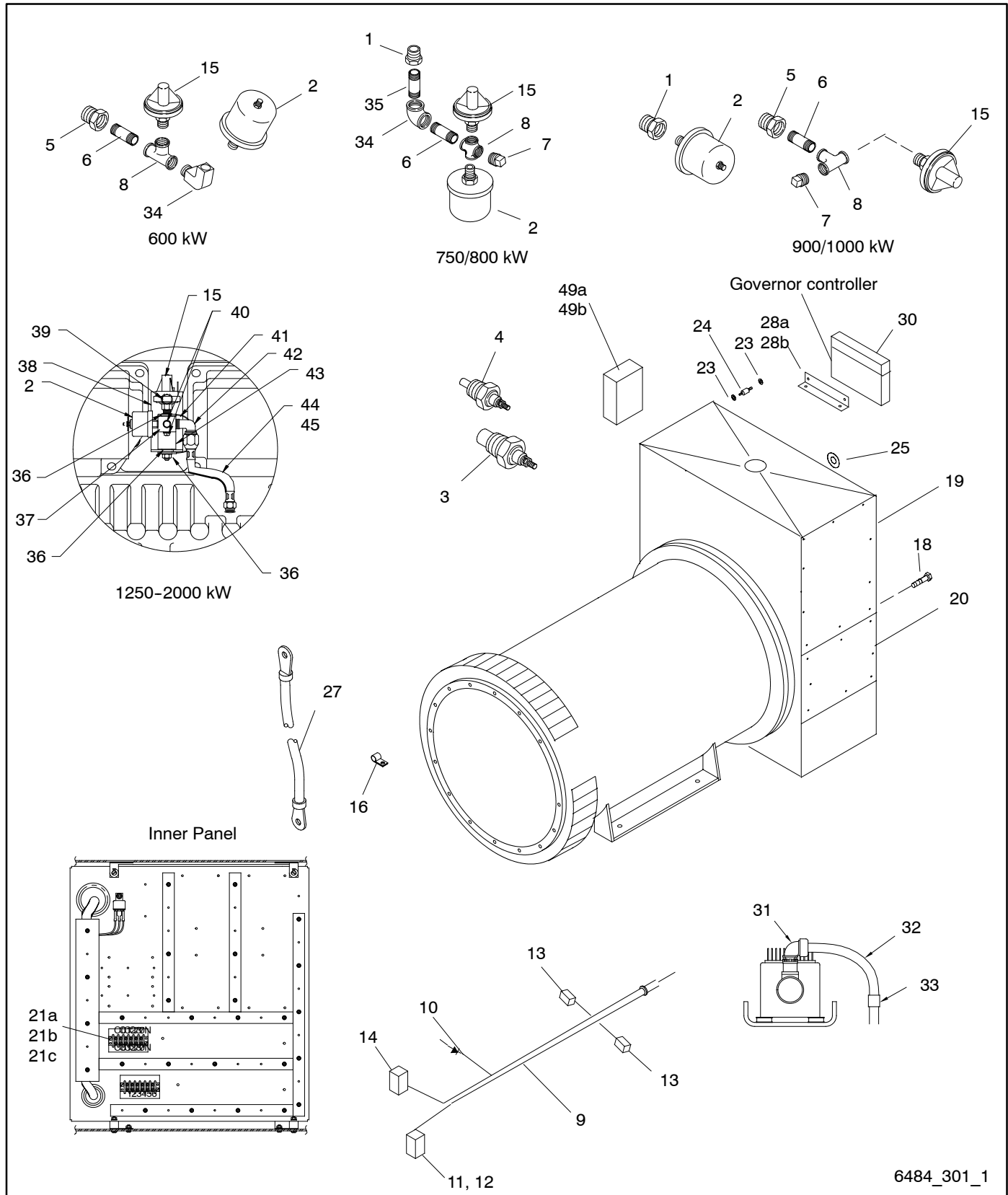
Item	Part Number	Description	Quantity		
			GM75930-1	GM75930-2	GM75930-3
2	361567	Base, tie wrap snapin	5	5	5
3	GM11040-7	Insert, Threaded (M6 x 1.0 Hex)	76	76	76
4	GM75889**	Box, Junction (4M)	1		
4	GM75890**	Box, Junction (5M)		1	
4	GM75891**	Box, Junction (7M)			1
5	GM75892	Panel, J-Box (Louvered)	2	2	2
6	GM75895	Panel, J-Box (Cable Entry)	2	2	2
7	GM78489	Guard, Shelf 4M	1		
7	GM78490	Guard, Shelf 5M/7M		1	1
8	M6921-06016-60	Screw, Hex Flange M6x16mm fly thrd js500	32	32	32
9	X-284-2	Grommet, round (2 in. dia.)	1	1	1
10	X-284-25	Grommet, round	1	1	1

** Use the Kit number and chart below to identify the color suffix.
Add a suffix to this color dependent part number before ordering.

Module No.	Color Dependent Parts	
	Part Number Suffix	Part Number Example (item 4)
GM75930-1-BLK	-BLK	GM75889-BLK
GM75930-2-BLK	-BLK	GM75890-BLK
GM75930-3-BLK	-BLK	GM75891-BLK

Group 301: Control and Harness

3+ Controller



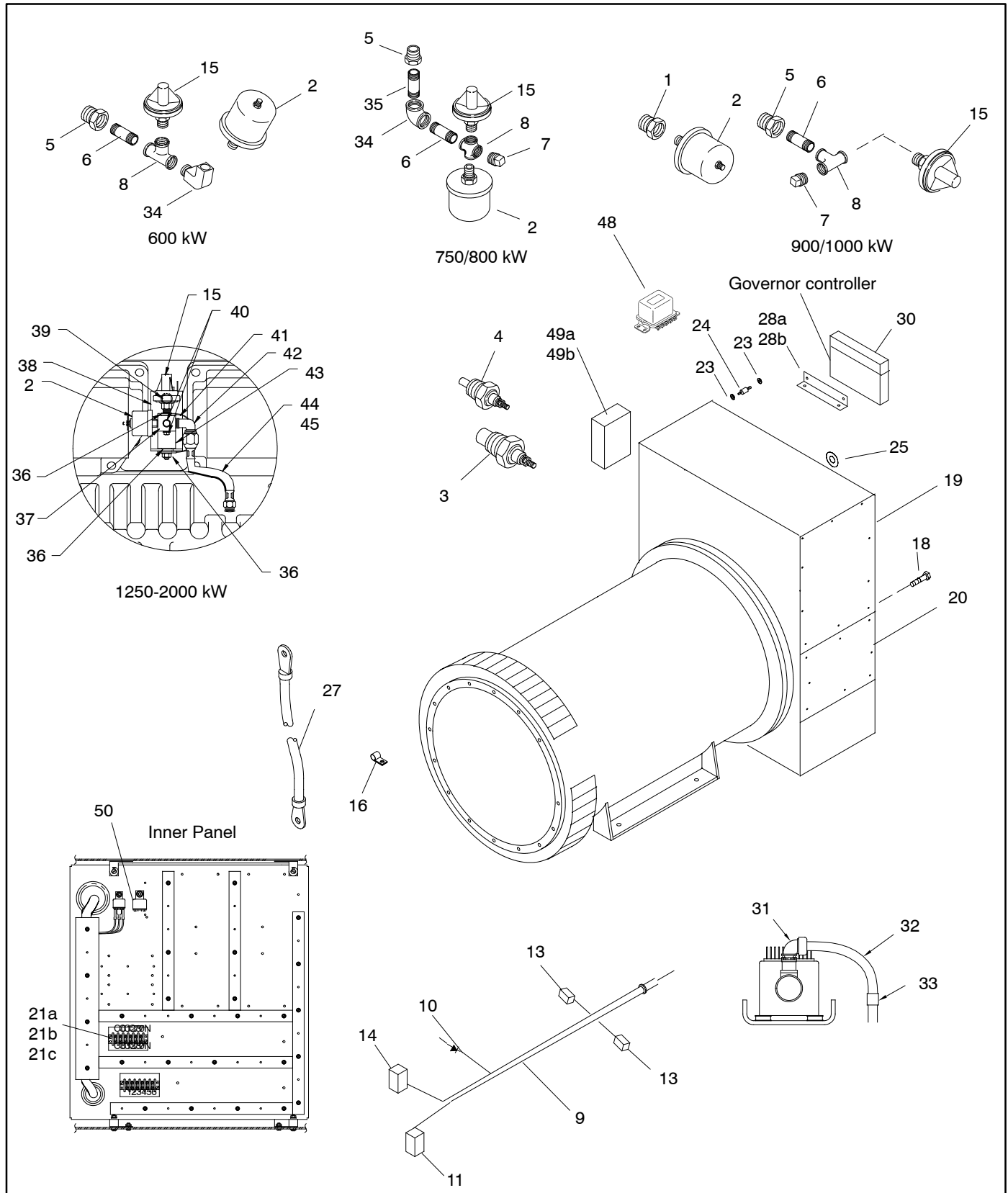
Group 301: Control and Harness

3+ Controller

Item	Part Number	Description	Quantity									
			Module									
			GM31736-MA1	GM50801-MA1	GM31503-MA1	GM31503-MA2	GM16933-MA1	GM16933-MA2	GM54815-MA1	GM54815-MA2	GM60168-MA1	GM60168-MA2
1	GM10576	Adapter bushing			1	1						
2	343474	Sender, oil pressure	1	1	1	1	1	1	1	1	1	1
3	241481	Switch, high temperature shutoff	1		1	1	1	1	1	1	1	1
3	GM50832	Switch-sender		1								
4	268298	Sender, water temperature	1		1	1	1	1	1	1	1	1
5	GM12035	Adapter bushing	1	1					1	1	1	1
5	GM10576	Adapter bushing			1	1						
6	X-217-6	Nipple, pipe, 1/8 x 3/4 in.	1	1	1	1						
7	X-75-1	Plug, pipe, 1/8	1		1	1						
8	X-203-16	Fitting, tee, 1/8 x 1/8 x 1/8 in., pipe		1	1	1						
8	164037	Cross pipe, 1/8 in.	1									
9	GM50744	Harness, engine		1								
9	GM31234	Harness, engine			1	1						
9	GM31852	Harness, engine	1									
9	GM16935	Harness, engine					1	1				
9	GM51493	Harness, engine							1	1	1	1
10	233959	Diode, 6 A	7	5	7	7	7	7	7	7	7	7
11	292800	Connector, cable	1	1	1	1	1	1	1	1	1	1
12	295145	Connector, 24-position	1	1	1	1	1	1	1	1	1	1
13	GM11422	Connector	3	1	2	2	2	2	2	2	2	2
14	GM11423	Connector		1	1	1	1	1	1	1	1	1
15	GM10574	Switch, pressure, LOP	1	1	1	1						
15	GM10575	Switch, pressure					1	1	1	1	1	1
16	X-672-31	Clamp, insulated, 0.75 in.					1	1				
18	X-6217-10	Screw, hex flange machine	12	10	22	24	38	38	24	24	24	24
19	361184-BLK	Panel, junction box, front	1	1	1	1	1	1	1	1	1	1
20	361826-BLK	Panel, junction box (5M and 7M4046 alt.)	1	1	1							
20	328901-BLK	Panel, junction box (7M alt. except 7M4046)				1	1	1	1	1	1	1
21a	X-49-6	Screw, cross recess	2	2	2	2	2	2	2	2	2	2
21b	255080	Marker, strip	1	1	1	1	1	1	1	1	1	1
21c	295314	Terminal block	1	1	1	1	1	1	1	1	1	1
23	X-22-11	Washer, lock	8	8	8	8	8	8	8	8	8	8
24	229353	Vibromount	4	4	4	4	4	4	4	4	4	4
25	X-284-3	Grommet, round	2	2	2	2	2	2	2	2	2	2
27	X-545-149	Cable, battery					1	1	1	1	1	1
28a	GM30658	Bracket, governor mounting	3	3	3	3	3	3	3	3	3	3
28b	GM46823	Bracket, governor mounting	1	1	1	1	1	1	1	1	1	1
30	GM46824	Cover, governor	1	1	1	1	1	1	1	1	1	1
31	X-6027-5	Connector, conduit	1	1	1	1	1	1	1	1	1	1
32	X-6026-30	Conduit, flexible	1	1	1	1	1	1	1	1	1	1
33	GM51521	Conduit, inner sleeve	1	1	1	1	1	1	1	1	1	1
34	X-215-19	Elbow, pipe, 90° x 1/8 in. NPT	1									
34	267428	Fitting, 45° street elbow		1								
35	X-217-2	Pipe, nipple, 1/8 in. NPT x 1.50 in.	1									
36	X-22-12	Washer, lock, 0.262 ID x 0.743 in. OD					3	3	3	3	3	3
37	267548	Block, oil gauge					1	1	1	1	1	1
38	GM35184	Bracket, sender					1	1	1	1	1	1
39	X-22-26	Washer, lock, 0.521 ID x 1.24 in. OD					1	1	1	1	1	1
40	X-75-4	Plug, pipe, 1/8 in. NPT					2	2	2	2	2	2
41	223033	Strap, ground, 5 in.					1	1	1	1	1	1
42	X-447-10	Elbow, male tube, 90°					1	1	1	1	1	1
43	259632	Bumper					1	1	1	1	1	1
44	270727	Fuel line, flexible					1	1	1	1	1	1
45	GM12035	Adapter, bushing					1	1				
46	GM10669	Shield, heat, 32 mm ID x 305 mm (not shown)							1	1	1	1
47	GM54825	Shield, heat, 20 mm ID x 103 mm (not shown)							2	2	2	2
49a	GM24876-S	Regulator, Voltage (Digital)	1	1	1	1	1	1	1	1	1	1
49b	GM66039	Screw, Plastic Tapping, 6-19 x 0.625	6	6	6	6	6	6	6	6	6	6

Group 301: Control and Harness, continued

3+ Controller



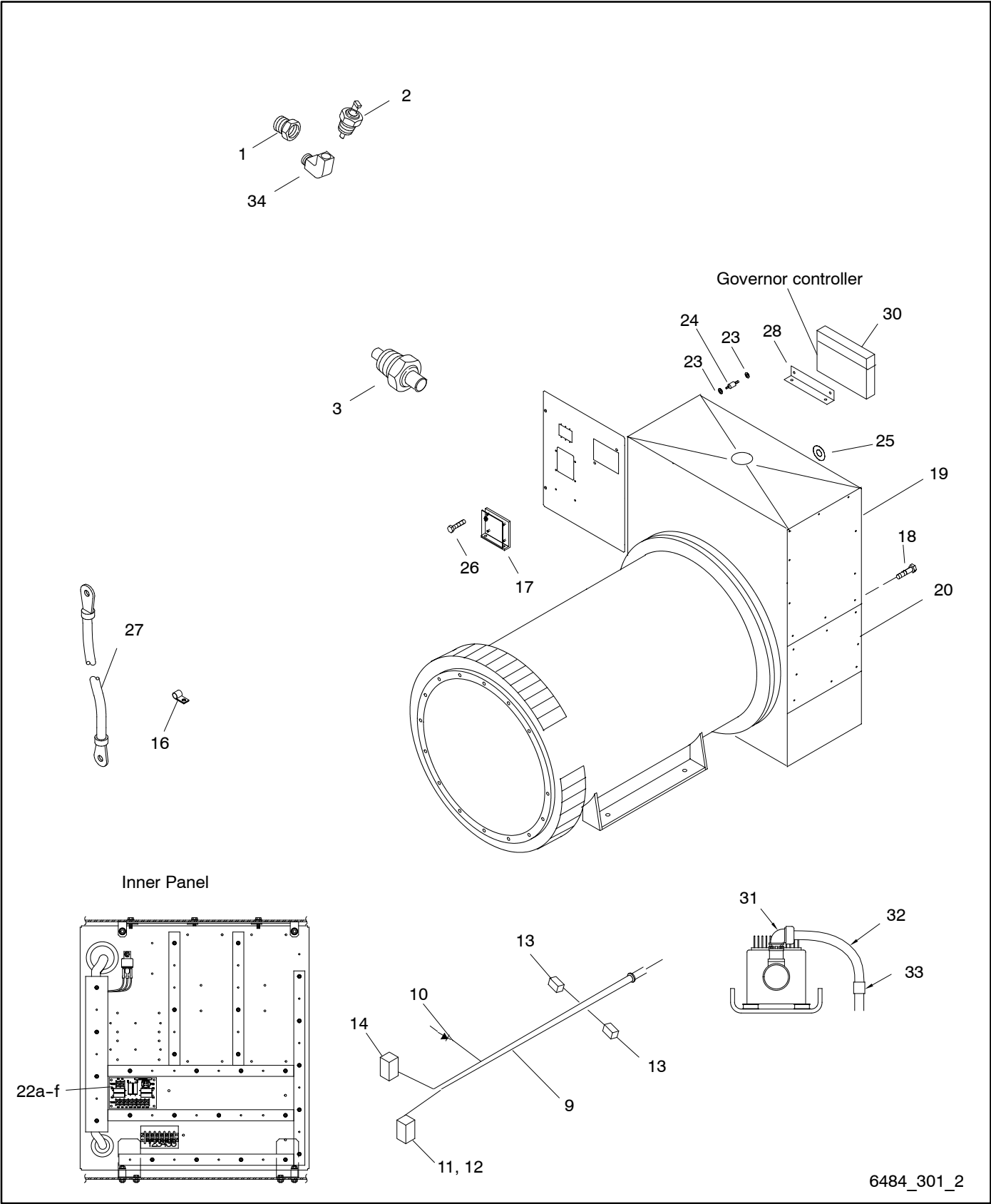
Group 301: Control and Harness, continued

3+ Controller

Item	Part Number	Description	Quantity							
			Module							
			GM74826-MA1	GM74828-MA1	GM74829-MA1	GM74829-MA2	GM74831-MA1	GM74831-MA2	GM74833-MA1	GM74833-MA2
1	GM10576	Adapter bushing			1	1				
2	343474	Sender, oil pressure	1	1	1	1	1	1	1	1
3	241481	Switch, high temperature shutoff		1	1	1	1	1	1	1
3	GM50832	Switch-Sensor	1							
4	268298	Sender, water temperature		1	1	1	1	1	1	1
4	GM10669	Shield, Heat (32mm ID x 305 mm L) (not shown)					1	1	1	1
4	GM54825	Shield, Heat (not shown)					2	2	2	2
5	GM12035	Adapter bushing	1	1						
5	GM10576	Adapter bushing			1	1				
6	X-217-6	Nipple, pipe, 1/8 x 3/4 in.	1	1	1	1				
7	X-75-1	Plug, pipe, 1/8		1	1	1				
8	X-203-16	Fitting, tee, 1/8 x 1/8 x 1/8 in., pipe	1		1	1				
8	164037	Cross pipe, 1/8 in.		1						
9	GM74812	Harness, Eng Mits T2 600kW Dec 3+	1							
9	GM74814	Harness, Eng Mits 750-800kW Dec3+		1						
9	GM74815	Harness, Eng Mits T2 900-1000kW Dec3+			1	1				
9	GM74817	Harness, Eng Mits T1 1250-1600kW Dec3+					1	1	1	1
10	233959	Diode, 6 A	5	3	7	7	7	7	7	7
11	295145	Connector, 24-position	1	1	1	1	1	1	1	1
13	GM11422	Connector	1	2	2	2	2	2	2	2
14	GM11423	Connector	1		1	1	1	1	1	1
15	GM10574	Switch, pressure, LOP	1	1	1	1				
15	GM10575	Switch, pressure					1	1	1	1
16	X-672-31	Clamp, insulated, 0.75 in.								
18	X-6217-10	Screw, hex flange machine	28	12	22	24	24	24	24	24
19	361184-BLK	Panel, junction box, front	1	1	1	1	1	1	1	1
20	361826-BLK	Panel, junction box	1	1	1					
20	328901-BLK	Panel, junction box				1	1	1	1	1
21a	X-49-6	Screw, cross recess	2	2	2	2	2	2	2	2
21b	255080	Marker, strip	1	1	1	1	1	1	1	1
21c	295314	Terminal block	1	1	1	1	1	1	1	1
23	X-22-11	Washer, lock	8	8	8	8	8	8	8	8
24	229353	Vibromount	4	4			4	4	4	4
25	X-284-3	Grommet, round	2	2			2	2	2	2
27	X-545-149	Cable, battery					1	1	1	1
28a	GM30658	Bracket, governor mounting	3	3			3	3	3	3
28b	GM46823	Bracket, governor mounting	1	1			1	1	1	1
30	GM46824	Cover, governor	1	1			1	1	1	1
31	X-6027-5	Connector, conduit	1	1			1	1	1	1
32	X-6026-30	Conduit, flexible	1	1			1	1	1	1
33	GM51521	Conduit, inner sleeve	1	1		1	1	1	1	1
34	X-215-19	Elbow, pipe, 90° x 1/8 in. NPT		1						
34	267428	Fitting, 45° street elbow	1							
35	X-217-2	Pipe, nipple, 1/8 in. NPT x 1.50 in.		1						
36	X-22-12	Washer, lock, 0.262 ID x 0.743 in. OD					3	3	3	3
37	267548	Block, oil gauge					1	1	1	1
38	GM35184	Bracket, sender					1	1	1	1
39	X-22-26	Washer, lock, 0.521 ID x 1.24 in. OD					1	1	1	1
40	X-75-4	Plug, pipe, 1/8 in. NPT					2	2	1	1
41	223033	Strap, ground, 5 in.					1	1	1	1
42	X-447-10	Elbow, male tube, 90°					1	1	1	1
43	259632	Bumper					1	1	1	1
44	265462	Fuel line, flexible					1	1		
44	270727	Fuel line, flexible							1	1
45	GM12035	Adapter, bushing					1	1	1	1
48	GM74810	Chattering Relay (supplied with engine)	1							
48	GM74811	Synchronizing Relay (supplied with engine)		1	1	1	1	1	1	1
49a	GM24876-S	Regulator, Voltage (Digital)	1	1	1	1	1	1	1	1
49b	GM66039	Screw, Plastic Tapping, 6-19 x 0.625	6	6	6	6	6	6	6	6
50	GM49747	Relay, 24V DC			1	1				

Group 301: Control and Harness, continued

550 Controller



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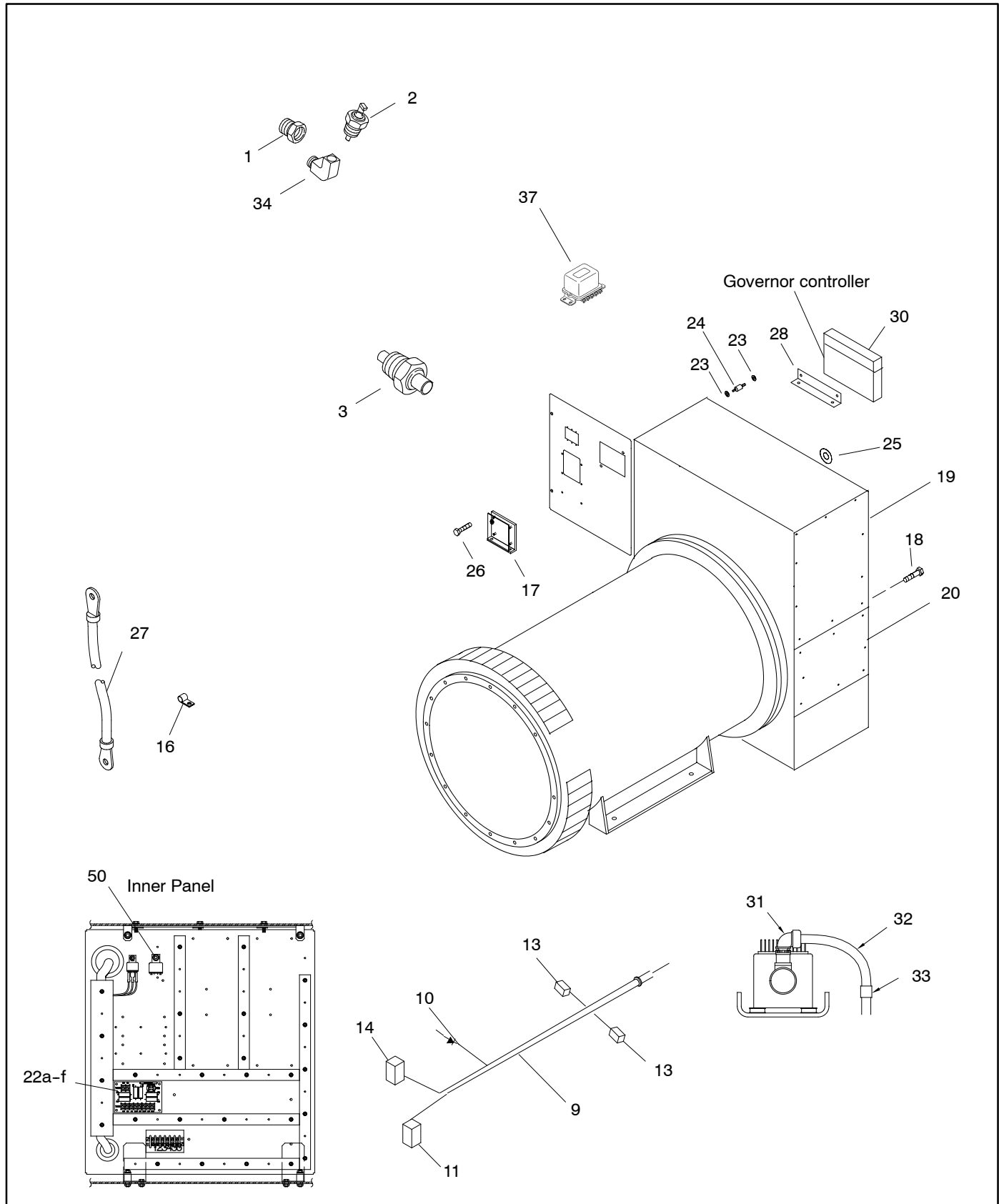
Group 301: Control and Harness, continued

550 Controller

Item	Part Number	Description	Quantity							
			Module							
			GM50802-MA1	GM31851-MA1	GM31504-MA1	GM31504-MA2	GM30952-MA1	GM30952-MA2	GM52968-MA1	GM52968-MA2
1	GM12035	Adapter bushing	1	1			1	1	1	1
1	GM10576	Adapter bushing			1	1	1	1	1	1
2	GM70917-1	Sensor, pressure, 1/8-27 NPT	1	1	1	1	1	1	1	1
3	GM31990	Kit, Sensor, temp.	1	1	1	1	1	1	1	1
9	GM50743	Harness, engine	1							
9	GM31233	Harness, engine			1	1				
9	GM31853	Harness, engine		1						
9	GM17434	Harness, engine					1	1		
9	GM46930	Harness, 5 ft.					1	1		
9	GM51492	Harness, engine							1	1
10	233959	Diode, 6 A	7	7	7	7	7	7	7	7
11	292800	Connector, cable	1	1	1	1	1	1	1	1
12	295145	Connector, 24-position	1	1	1	1	1	1	1	1
13	GM11422	Connector	1	1	1	1	1	1	2	2
14	GM11423	Connector	1	1	1	1	1	1	1	1
16	X-672-31	Clamp, insulated, 0.75 in.					1	1		
17	GM11718	PCB assy., Marathon excitation interface	1	1	1	1	1	1	1	1
18	X-6217-10	Screw, hex flange machine	28	12	20	22	24	24	24	24
19	361184-BLK	Panel, junction box, front	1	1	1	1	1	1	1	1
20	361826-BLK	Panel, junction box (5M and 7M4046 alt.)	1	1	1					
20	328901-BLK	Panel, junction box (7M alt. except 7M4046)				1	1	1	1	1
22a	X-49-6	Screw, cross recess						2		2
22b	254127	Marker, strip						1		1
22c	X-405-2	Terminal block						1		1
22d	GM13980	PCB assy., CT burden resistor	1	1	1	1	1		1	
22e	X-70-12	Nut, hex machine screw, 8-32	4	4	4	4	4		4	
22f	X-712-9	Spacer, 0.25 OD, 0.5 in.	4	4	4	4	4		4	
23	X-22-11	Washer, lock	8	8	8	8	8	8	8	8
24	229353	Vibromount	4	4	4	4	4	4	4	4
25	X-284-3	Grommet, round	2	2	2	2	2	2	2	2
26	M965A-06012-20	Screw, pan head machine	4	4	4	4	4	4	4	4
27	X-545-149	Cable, battery					1	1	1	1
28a	GM30658	Bracket, governor mounting	3	3	3	3	3	3	3	3
28b	GM46823	Bracket, governor mounting	1	1	1	1	1	1	1	1
30	GM46824	Cover, governor	1	1	1	1	1	1	1	1
31	X-6027-5	Connector, conduit	1	1	1	1	1	1	1	1
32	X-6026-30	Conduit, flexible	1	1	1	1	1	1	1	1
33	GM51521	Conduit, inner sleeve	1	1	1	1	1	1	1	1
34	X-555-2	Elbow, street, 90° x 1/8 in. NPTF		1	1	1				
34	267428	Fitting, 45° street elbow	1							
35	GM10669	Shield, heat, 32 mm ID x 305 mm (not shown)							1	1

Group 301: Control and Harness, continued

550/6000 Controller



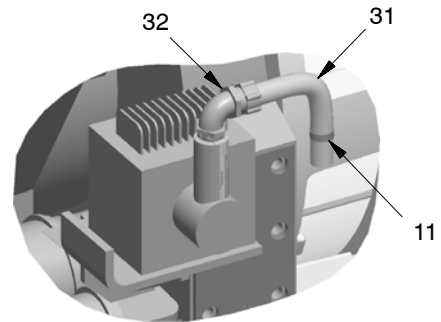
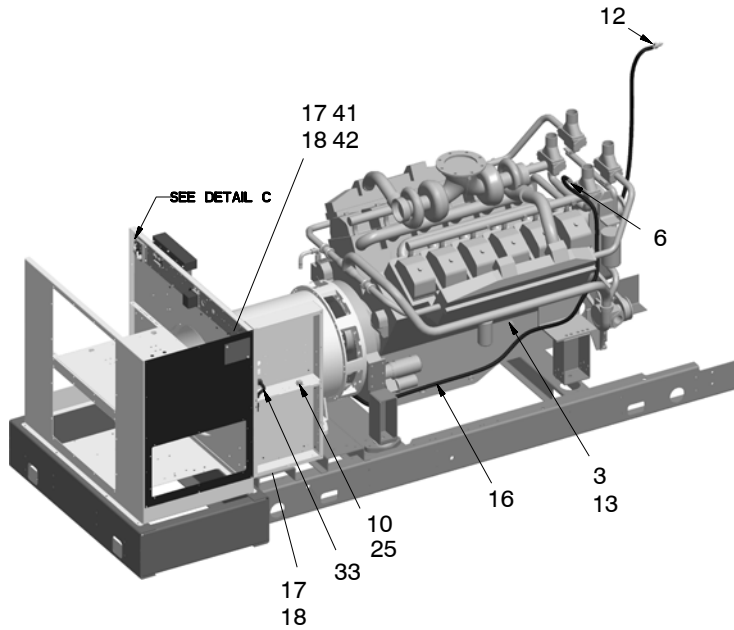
Group 301: Control and Harness, continued

550/6000 Controller

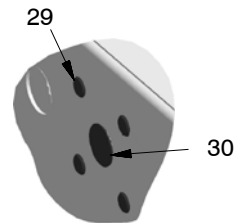
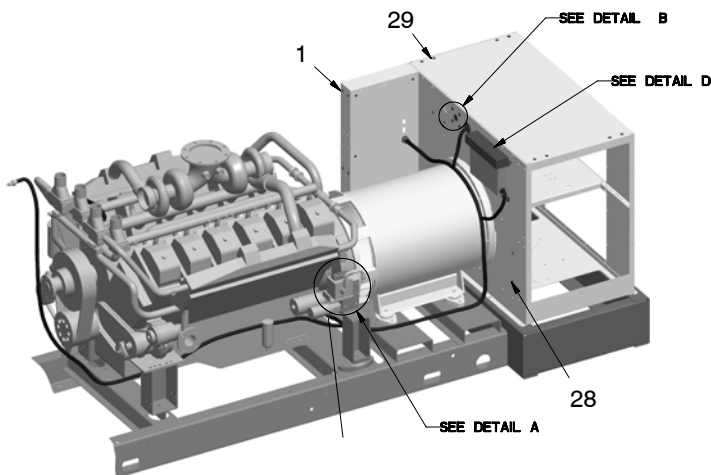
Item	Part Number	Description	Quantity					
			Module					
			GM74835-MA1	GM74837-MA1	GM74838-MA1	GM74838-MA2	GM74841-MA1	GM74841-MA2
1	GM12035	Adapter bushing	1	1	1	1	1	1
2	GM70917-1	Sender, Pressure, 0-150psi, 1/8-27 NPTF	1	1	1	1	1	1
3	GM31990	Kit, Temperature Sensor	1	1	1	1	1	1
3	GM10669	Shield, heat (32mm id x 305mm length)					1	1
9	GM74819	Harness, Eng Mits T2 600kW DEC550/6000	1					
9	GM74821	Harness, Eng Mits 750-800kW DEC550/6000		1				
9	GM74822	Harness, Eng MitsT2 900-1000kW DEC550/6000			1	1		
9	GM74824	Harness, EngMitsT2 1250-2000kW DEC550/6000					1	1
10	233959	Diode, 6 A	2	7	7	7	7	7
11	295145	Connector, 24-position	1	1	1	1	1	1
13	GM11422	Connector	1	3	2	2	2	2
16	X-672-31	Clamp, insulated, 0.75 in.					1	1
17	GM11718	PCB assy., Marathon excitation interface	1	1	1	1	1	1
18	X-6217-10	Screw, hex flange machine	28	12	22	24	24	24
19	361184-BLK	Panel, junction box, front	1	1	1	1	1	1
20	361826-BLK	Panel, junction box	1	1	1			
20	328901-BLK	Panel, junction box				1	1	1
22a	X-49-6	Screw, cross recess						1
22b	254127	Marker, strip						1
22c	X-405-2	Terminal block						1
22d	GM13980	PCB assy., CT burden resistor	1	1	1	1	1	
22e	X-70-12	Nut, hex machine screw, 8-32	4	4	4	4	4	
22f	X-712-9	Spacer, 0.25 OD, 0.5 in.	4	4	4	4	4	
23	X-22-11	Washer, lock	8	8			8	8
24	229353	Vibromount	4	4			4	4
25	X-284-3	Grommet, round	2	2			2	2
26	M965A-06012-20	Screw, pan head machine	4	4	4	4	4	4
27	X-545-149	Cable, battery					1	1
28	GM30658	Bracket, governor mounting	3	3			3	3
28	GM46823	Bracket, governor mounting	1	1			1	1
30	GM46824	Cover, governor	1	1			1	1
31	X-6027-5	Connector, conduit	1	1			1	1
32	X-6026-30	Conduit, flexible	1	1			1	1
33	GM51521	Conduit, inner sleeve	1	1			1	1
34	X-555-2	Elbow, street, 90° x 1/8 in. NPTF		1	1	1		
34	267428	Fitting, 45° street elbow	1					
37	GM74810	Chattering Relay (supplied with engine)	1					
37	GM74811	Synchronizing Relay (supplied with engine)		1	1	1	1	1
50	GM49747	Relay, 24V DC			1	1		

Group 301: Control and Harness, continued

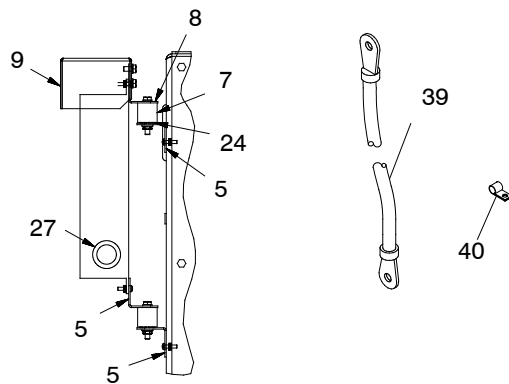
550/3000/6000/APM402 Controller



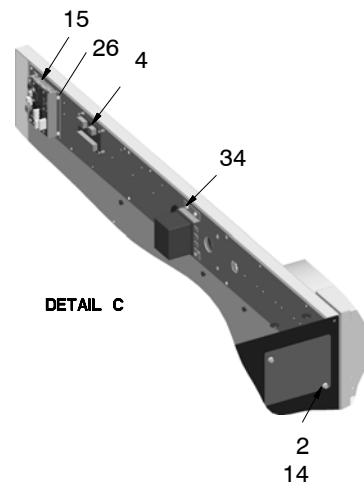
DETAIL A



DETAIL B



DETAIL D
VIEWED FROM LEFT SIDE OF GENSET)



DETAIL C

Group 301: Control and Harness, continued

550/3000/6000/APM402 Controller

Item	Part Number	Description	Quantity Module								
			GM79363-MA1	GM79363-MA2	GM79363-MA3	GM80794-MA1	GM80794-MA2	GM80795-MA1	GM81544-MA1	GM81544-MA2	GM81545-MA1
1	324861	Coupling, black plastic	12	12	12	12	12	12	12	12	12
2	GM11040-7	Insert, Threaded (M6 x 1.0 Hex)	2	2	2	2	2	2	4	4	4
3	GM12035	Adapter bushing	1	1	1	1	1	1	1	1	1
4	GM13980	PCB assy., CT burden resistor	1	1		1	1	1	1	1	1
5	GM30658	Bracket, governor mounting	3	3	3	3	3	3			
6	GM31990	Kit, Temperature Sensor	1	1	1	1	1		1	1	
6	GM39458	Sender, Temperature						1			1
7	GM38784-3	Vibromount	4	4	4	4	4	4			
8	GM46823	Bracket, governor mounting	1	1	1	1	1	1			
9	GM46824	Cover, governor	1	1	1	1	1	1			
10	GM49747	Relay, 24V DC	1	1	1	1	1	1	2	2	2
11	GM51521	Conduit, inner sleeve	1	1	1	1	1	1			
12	GM66270	Sensor, Low Coolant Level				1	1	1	1	1	1
13	GM70917-1	Sender, Pressure, 0-150psi, 1/8-27 NPTF	1	1	1	1	1		1	1	1
13	GM102100	Sender, oil pressure						1			1
14	GM77908**	Cover, Diagnostic	1	1	1	1	1	1			
14	GM77909	Cover, Diagnostic							1	1	1
15	GM79677	Board, Assy Marathon Interface	1	1	1	1	1	1	1	1	1
16	GM81299	Harness, Engine 750/800 kW Mitsubishi				1	1				
16	GM81315	Harness, Engine 750/800 kW Mitsubishi						1			
16	GM81602	Harness, Engine 900/1000 kW Mitsubishi							1	1	
16	GM81603	Harness, Engine 900/1000 kW Mitsubishi									1
16	GM79392	Harness, Engine 2000 kW Mitsubishi	1	1	1						
17	GM79448**	Bracket, Controller	1	1	1						
18	GM38784-2	Vibromount	4	4	4						
24	X-22-12	Washer, lock.262 IDx.743 in.OD	8	8	8		4	4			
25	X-67-155	Screw, Tapping	1	1	1	1	1	1	2	2	2
26	X-67-156	Screw, Tapping				8	8	8			
26	X-67-59	Screw, Tapping							8	8	8
26	GM38784-1	Vibromount	4	4	4						
27	X-284-3	Grommet, round	1	1	1	1	1	1			
28	X-301-34	Plug, Button	7	7	7	7	7	7	7	7	7
29	X-301-47	Plug, Button	12	12	12	12	12	12	10	10	10
30	X-301-48	Plug, Button	1	1	1	1	1	1	1	1	1
31	X-6026-30	Conduit, flexible	1	1	1	1	1	1			
32	X-6027-5	Connector, conduit	1	1	1	1	1	1			
33	GM79393	Harness, Control Box, DEC550	1		1	1					
33	GM79394	Harness, Control Box, DEC6000		1			1				
33	GM81317	Harness, Control Box, DEC3000						1			
33	GM81606	Harness, Control Box, DEC550							1		
33	GM81608	Harness, Control Box, DEC6000								1	
33	GM81607	Harness, Control Box, DEC3000									1
33	GM77978	Harness, A/C Control Box									1
34	GM74811	Synchronizing Relay (supplied with engine)	1	1	1	1	1	1	1	1	1
39	X-545-149	Cable, battery (No.0 x 6.1") red+	1	1	1						
40	X-672-30	Clamp, insulated, 1.06 in.	1	1	1						
41	GM77902	Bracket, Mtg (Diagnostic)							1	1	1
42	GM81747	Harness, Diagnostic Mits							1	1	1

** Use the Kit number and chart below to identify the color suffix.
Add a suffix to this color dependent part number before ordering.

Kit No.	Color Dependent Parts	
	Part Number Suffix	Part Number Example (item 14)
GM79363-MA1-KCB	-KCB	GM77908-KCB
GM79363-MA1-KCB	-BLK	GM79448-BLK
GM79363-MA2-KCB	-KCB	GM77908-KCB
GM79363-MA2-KCB	-BLK	GM79448-BLK
GM79363-MA3-KCB	-KCB	GM77908-KCB
GM79363-MA3-KCB	-BLK	GM79448-BLK
GM80794-MA1-KCB	-KCB	GM77908-KCB
GM80794-MA2-KCB	-KCB	GM77908-KCB
GM80795-MA1-KCB	-KCB	GM77908-KCB
GM104401-MA1-KCB	-KCB	GM77908-KCB

Group 701: Literature

Item	Part Number	Description	Quantity								
			Variation Number								
			241	242	243	244	245	246	247	248	249
1	TP-5578	O/I/S/M Marathon Alternator, MMAX DVR	1	1	1	1	1	1	1	1	1
2	TP-5700	I/M Industrial	1	1	1	1	1	1	1	1	1
3	TP-6009	P/C Controllers	1	1	1	1	1	1	1	1	1
5	TP-6140	O/I/M Controller Setup & App. Decision-Maker 550	1	1	1	1	1	1	1	1	1
6	TP-6161	O/M 20-2250 kW, Industrial	1	1	1	1	1	1	1	1	1
7	TP-6199	O/I/S/M Marathon voltage regulator DVR2000E	1	1	1	1	1	1	1	1	1
8	TP-6200	O/M Decision-Maker 550 Controller V 2.10	1	1	1	1	1	1	1	1	1
9	TP-6257	P/C Kohler D600 Engine, 600REOZM	1								
9	TP-6282	P/C Kohler D750/D800 Engine, 750/800REOZM/B		1	1						
9	TP-6258	P/C Kohler D1000 37.1A Eng, 900/100REOZM/B				1	1				
9	TP-6283	P/C Kohler D1250 Engine, 1250REOZM/B						1			
9	TP-6259	P/C Kohler D1600-2000Eng, 1600-2000REOZM/B							1	1	1
10	TP-6556	O/M MHI 600REOZMB	1								
10	TP-6557	O/M MHI 750/800REOZMB		1	1						
10	TP-6558	O/M MHI 900/1000REOZMB				1	1				
10	TP-6644	O/M MHI ECM3, 900/1000REOZMB				1	1				
10	TP-6559	O/M MHI 1250REOZMB						1			
10	TP-6560	O/M MHI 1600REOZMB							1		
10	TP-6561	O/M MHI 1750/2000REOZMB								1	1
11	TP-6289	W/D 600-2000REOZM, Industrial	1	1	1	1	1	1	1	1	1
12	TP-6330	O/I/M Woodward ProAct I/II Governor	1	1	1	1	1	1	1	1	1
13	TP-6356	S/M Controllers, 20-2800 kW	1	1	1	1	1	1	1	1	1
14	TP-6373	S/M Pilot-Excited PM Alternator, 350-2800 kW	1	1	1	1	1	1	1	1	1
15	TP-6484	P/C 600-2000REOZMB	1	1	1	1	1	1	1	1	1
16	TP-6562	S/M MHI 600REOZM/B	1								
16	TP-6563	S/M MHI 750/800REOZM/B		1	1						
16	TP-6564	S/M MHI 900-1000REOZM/B				1	1				
16	TP-6565	S/M MHI 1250REOZM/B						1			
16	TP-6566	S/M MHI 1600REOZM/B							1		
16	TP-6567	S/M MHI 1820-2000REOZM/B								1	1
17	TP-6746	P/C DEC6000 AND DPS System	1	1	1	1	1	1	1	1	1
18	TP-6747	O/I/M DPS System Installation and Setup	1	1							
19	TP-6750	O/M DEC 6000 Controller	1	1	1	1	1	1	1	1	1

Group 701: Literature

Item	Part Number	Description	Quantity							
			Variation Number							
			297	298	299	300	287	288	289	290
1	TP-5374	Warranty 1-Year Limited, Industrial	1	1	1	1	1	1	1	1
2	TP-5578	O/I/S/M Marathon Alternator, MMAX DVR	1	1	1	1	1	1	1	1
3	TP-5700	I/M 20-3250kW, Industrial	1	1	1	1	1	1	1	1
4	TP-6140	O/I/M Controller Setup & App. Decision-Maker 550	1	1	1	1	1	1	1	1
5	TP-6694	O/M APM402/DEC3000 Controller	1	1	1	1				
6	TP-6200	O/M Decision-Maker 550 Controller V 2.10	1	1	1	1	1	1	1	1
7	TP-6282	P/C Kohler D750/D800 Engine, 750/800REOZM/B	1	1						
7	TP-6258	P/C Kohler D1000 37.1A Eng, 900/100REOZM/B			1	1				
7	TP-6283	P/C Kohler D1250 Engine, 1250REOZM/B					1			
7	TP-6259	P/C Kohler D1600-2000Eng, 1600-2000REOZM/B						1	1	1
8	TP-6557	O/M MHI 750/800REOZMB	1	1						
8	TP-6558	O/M MHI 900/1000REOZMB			1	1				
8	TP-6644	O/M MHI ECM3, 900/1000REOZMB, Industrial			1	1				
8	TP-6559	O/M MHI 1250REOZMB					1			
8	TP-6560	O/M MHI 1600REOZMB						1		
8	TP-6561	O/M MHI 1750/2000REOZMB							1	1
9	TP-6318	W/D 750-2000REOZMD, 750-2000ROZMC	1	1	1	1	1	1	1	1
10	TP-6330	O/I/M Woodward ProAct I/II Governor	1	1	1	1	1	1	1	1
11	TP-6356	S/M Controllers, 20-2800 kW	1	1	1	1	1	1	1	1
12	TP-6373	S/M Pilot-Excited PM Alternator, 350-2800 kW	1	1	1	1	1	1	1	1
13	TP-6484	P/C 600-2000REOZMB	1	1	1	1	1	1	1	1
14	TP-6563	S/M MHI 750/800REOZM/B	1	1						
14	TP-6564	S/M MHI 900-1000REOZM/B			1	1				
14	TP-6565	S/M MHI 1250REOZM/B					1			
14	TP-6566	S/M MHI 1600REOZM/B						1		
14	TP-6567	S/M MHI 1820-2000REOZM/B							1	1
15	TP-6746	P/C DEC6000 AND DPS System	1	1	1	1	1	1	1	1
15	TP-6780	P/C DEC 550 Controller (J-Box Panel Mt)	1	1	1	1	1	1	1	1
15	TP-6781	P/C APM402/DEC 3000 Controller	1	1	1	1				
16	TP-6747	O/I/M DPS System Installation and Setup	1	1	1	1	1	1	1	1
17	TP-6750	O/M DEC 6000 Controller	1	1	1	1	1	1	1	1

Kit List

This section lists the part numbers of modules/kits not listed in the Group Parts Lists on the previous pages. Refer to the generator set nameplate or the list below to identify the module/kit number installed on your generator set. See the sections following this page for the parts list of the module/kit.

	600 kW	750/800 kW	900/1000 kW
Cooling Systems			
Radiator drain valve	GM33830-KA1	GM33830-KA1	GM33830-KA1
Remote radiator setup	GM50923-MA1	GM51078-MA1	GM51433-MA1
Remote radiator flex kit	—	GM51591-KP1	GM51674-KP1
Heater, block including isolation valves		(Obsolete CSS Style)	
190/208 V, 1-phase	GM21100-KA1	GM53095-KA6	GM19409-KA6
210/240 V, 1-phase	GM21100-KA2	GM53095-KA2	GM19409-KA1
240 V, 3-phase	—	GM53095-KA4	GM19409-KA3
380 V, 3-phase	—	GM53095-KA5	GM19409-KA4
380/480 V, 1-phase	GM21100-KA3	GM53095-KA3	GM19409-KA2
480 V, 3-phase	—	GM53095-KA1	GM19409-KA5
Heater, block including isolation valves		(CMS Style)	
190/208 V, 1-phase	GM21100-KA1	GM64395-KA6	GM64396-KA6
210/240 V, 1-phase	GM21100-KA2	GM64395-KA2	GM64396-KA2
240 V, 3-phase	—	GM64395-KA4	GM64396-KA4
380 V, 3-phase	—	GM64395-KA5	GM64396-KA5
380/480 V, 1-phase	GM21100-KA3	GM64395-KA3	GM64396-KA3
480 V, 3-phase	—	GM64395-KA1	GM64396-KA1

	1250 kW	1600–2000 kW
Cooling Systems		
Radiator drain valve	GM33830-MA1	GM33830-MA1
Remote radiator setup	GM51551-MA1	GM51551-MA1
Heater, block including isolation valves (Obsolete CSS Style)		
208 V, 1-phase	GM51438-KA6	GM51266-KA6
240 V, 1-phase	GM51438-KA1	GM51266-KA1
240 V, 3-phase	GM51438-KA2	GM51266-KA2
380 V, 3-phase	GM51438-KA3	GM51266-KA3
480 V, 1-phase	GM51438-KA5	GM51266-KA5
480 V, 3-phase	GM51438-KA4	GM51266-KA4
Heater, block including isolation valves (CMS Style)		
208 V, 1-phase	GM64397-KA6	GM64399-KA6
240 V, 1-phase	GM64397-KA1	GM64399-KA1
240 V, 3-phase	GM64397-KA2	GM64399-KA2
380 V, 3-phase	GM64397-KA3	GM64399-KA3
480 V, 1-phase	GM64397-KA5	GM64399-KA5
480 V, 3-phase	GM64397-KA4	GM64399-KA4

Kit List

	600 kW	750/800 kW
Cooling Systems		
Heater, block including isolation valves		
208 V, 1-Phase	GM79185-KA1	GM77395-KA6
240 V, 1-Phase	GM79185-KA2	GM77395-KA2
240 V, 3-Phase	—	GM77395-KA4
380 V, 3-Phase	—	GM77395-KA5
480 V, 1-Phase	GM79185-KA3	GM77395-KA3
480 V, 3-Phase	—	GM77395-KA1

Touch-Up Paint

Gloss and textured paint is available from Aftermarket Parts.

Description	Part Number
Paint, Gloss KCB, 12oz spray can	GM71383
Paint, Gloss KCB, 1 gallon can	GM71387
Paint, Textured KCB, 12oz spray can	GM82834
Paint, Textured KCB, 1 gallon can	GM82835
Paint, Textured Black, 12 oz spray can	GM82836
Paint, Tank touch up	GM82837

Cooling System Kits

Qty.	Description	Part No.
Radiator Drain Valve		
		GM33820-KA1
1	Valve, drain, 3/8 in. NPTF	278788
1	Bushing, reducing, 3/8 x 1/2 in. NPT	X-202-28
Remote Radiator Setup		
		GM50923-MA1
1	Clamp, hose, 2.81/3.12 in.	275527
1	Clamp, hose, 3.25/3.56 in.	291542
1	Clamp, hose, 2.63/2.94 in.	336228
1	Clamp, hose, 3.88/4.19 in.	336229
1	Flange, water connection, outlet	GM11962
1	Flange, water connection, inlet	GM11963
1	Guard, belt guard mounting	GM12351
1	Flange, water connection, inlet	GM50752
1	Guard, Belt (RS)	GM50754
1	Guard, Belt (Bottom)	GM50755
1	Guard, Belt (LS)	GM50757
1	Guard, Belt (Top)	GM50758
1	Guard, pulley, right side	GM51038
1	Cover, pulley	GM51039
1	Guard, Belt (LS)	GM51583
1	Bracket, belt guard mtg.	GM51724
1	Bracket, belt guard mtg.	GM51725
1	Guard, Belt (LS) Rear	GM51850
1	Bracket, Belt Guard Mtg	GM55038
1	Hose, radiator, straight, 2.5 in. ID	X-424-10
1	Hose, radiator, straight, 3 in. ID	X-507-7
1	Hose, radiator, wire inset, 2.5 in. ID	X-6014-69
1	Hose, radiator, wire inset, 3.5 in. ID	X-6014-70
Remote Radiator Setup		
		GM51078-MA1
1	Clamp, muffler, 3.62 in.	286286
4	Clamp, muffler, 4.12 in.	289372
8	Clamp, hose, 3.25/3.56 in.	291542
1	Bracket, hose	GM32394
1	Tube, lower remote radiator	GM32395
2	Bracket, hose	GM32398
1	Guard, belt (chg. alt.), right	GM51037
1	Guard, Belt (Top)	GM51285
1	Guard, belt, right side	GM51286
1	Bracket, guard, right side	GM51287
1	Guard, Belt (Bottom)	GM51288
1	Bracket, guard, left side	GM51289
1	Guard, belt (chg. alt.), left	GM51290
1	Guard, belt (chg. alt.), left	GM51291
1	Guard, Belt (LS)	GM51292
2	Guard, chg. alt.	GM51338
1	Guard, belt (chg. alt.), right	GM51363
1	Tube, outlet	GM51375
1	Tube, outlet	GM51376
1	Bracket, guard	GM51391
1	Bracket, guard	GM51392
1	Tube, lower remote radiator	GM51435
1	Bracket, hose	GM51436
1	Bracket, Guard (LS)	GM52139
1	Bracket, Guard (RS)	GM52138
1	Guard, Belt LH (BCA)	GM52270
1	Guard, Belt Front	GM66362
1	Bracket, Support	GM66573
3	Cover, Coolant Connection	GM74080
1	Cover, Coolant Connection	GM74081
2	Spacer, 0.531 ID x 1 OD x 1 in.	X-400-230
2	Hose, radiator, straight, 3 in. ID	X-507-10
2	Hose, radiator, straight, 3 in. ID	X-507-7
1	Clamp, muffler, 2.62 in.	X-722-2

Qty.	Description	Part No.
Remote Radiator Setup		
		GM51433-MA1
1	Clamp, muffler, 3.12 in.	286283
2	Clamp, muffler, 4.12 in.	289372
4	Clamp, hose, 3.25/3.56 in.	291542
1	Bracket, belt guard	GM10544
1	Bracket, belt guard	GM10545
1	Bracket, belt guard	GM10546
1	Bracket, belt guard	GM10547
1	Bracket, guard	GM10948
1	Guard, pulley top	GM10949
1	Guard, pulley left side	GM10950
1	Guard, pulley bottom	GM10951
1	Guard, pulley right side	GM10952
1	Tube, water inlet	GM10953
1	Guard, pulley front	GM10955
1	Ball, bearing	GM10996
1	Tube, outlet	GM51464
1	Tube, water inlet	GM51465
1	Bracket, hose	GM51466
1	Bracket, guard	GM51467
1	Tube, lower	GM51505
1	Bracket, tube	GM51522
3	Cover, Coolant Connection	GM74080
1	Cover, Coolant Connection	GM74081
2	Hose, radiator, straight, 3 in. ID	X-507-10
1	Hose, radiator, straight, 3 in. ID	X-507-4
2	Washer, beveled, 0.44 ID x 1.25 in. OD	X-6011-4
1	Clamp, muffler, 2.62 in.	X-722-2
1	Plug, pipe, 1/2	X-75-3
Remote Radiator Setup		
		GM51551-MA1
2	Clamp, muffler, 3.12 in.	286283
1	Clamp, muffler, 3.62 in.	286286
1	Clamp, muffler, 4.12 in.	289372
4	Clamp, hose, 3.25/3.56 in.	291542
1	Tube, water inlet, 4 in. OD steel	GM10953
2	Support, radiator tube	GM19607
1	Tube, water inlet	GM51552
1	Tube, outlet	GM51553
1	Bracket, support	GM51554
1	Guard, pulley, right side	GM51555
1	Guard, pulley, left side	GM51556
1	Guard, pulley top	GM51557
1	Guard, pulley front	GM51558
1	Tube, Water Inlet	GM52986
1	Guard, Belt Lower	GM60790
1	Cover, Coolant Connection	GM74080
2	Hose, radiator, straight, 3 in. ID	X-507-7
1	Hose, radiator, straight, 3.5 in. ID	X-6006-3
2	Washer, beveled, 0.44 ID x 1.25 in. OD	X-6011-4
Remote Radiator Flex Kit		
		GM51591-KP1
32	Screw, hex head machine	X-6021-1
32	Nut, hex, 5/8-11, zinc	X-85-3
3	Adapter, flexible, radiator	354044
1	Adapter, flexible, radiator	354281
Remote Radiator Flex Kit		
		GM51674-KP1
32	Screw, hex head machine	X-6021-1
32	Nut, hex, 5/8-11, zinc	X-85-3
2	Adapter, flexible, radiator	354044
2	Adapter, flexible, radiator	354281

Cooling System Kits

Block Heater Kits: GM21100-KA1 to GM21100-KA3

Qty.	Description	Common Parts	Unique Parts		
			GM21100-KA1	GM21100-KA2	GM21100-KA3
1	Heater, block		GM19667	GM19668	GM19669
1	Block heater service element		GM29480	GM29481	GM29482
1	Thermostat		GM29529	GM29529	
1	Bushing, reducing, 1/2 x 3/4 in NPT	153659			
1	Strap, ground, 5 in.	223033			
1	Tag, hang	279047			
1	Thermostat, block heater	279813			
4	Gasket, washer	297001			
1	Box, block heater control	354316			
1	Cover, block heater control	354317			
1	Gasket, control box	354318			
1	Decal, warning	354325			
1	Label, wiring diagram	354328			
1	Bushing, adapter	GM10577			
2	Valve, shutoff	GM19670			
4	Vibromount	GM38784-2			
1	Bracket, block heater	GM38834			
1	Busing, reducing, 1/4 x 1/2 in. NPT	X-202-47			
1	Tee, pipe, 1/2 x 1/2 x 1/2 in.	X-203-13			
2	Pipe, 1/2 NPT x 1.19 in.	X-209-2			
1	Pipe, 1/2 NPT x 3 in.	X-209-11			
1	Fitting, elbow, street 1/2 in.	X-211-1			
1	Valve, drain, 1/4 in. NPT	X-256-3			
3	Elbow, street, 45° x 1/2 in. NPT	X-274-13			
1	Elbow, street, 45° x 3/4 in. NPT	X-274-15			
4	Clamp, hose, 0.69/1.25 in.	X-426-12			
2	Connector, hose	X-582-7			
2	Hose, coolant 40 in.	X-6367-7			
4	Screw, slotted hex washer head	X-97-13			

Block Heater Kits: GM19409-KA1-GM19409-KA5

Qty.	Description	Common Parts	Unique Parts		
			GM19409-KA1	GM19409-KA2	GM19409-KA3
1	Heater, block (CSS Style; use service kit)		361246	361247	361248
1	Element, replacement		GM29666	GM29667	GM29668
1	Block Heater Service Kit		GM66014-1	GM66014-2	GM66014-3
1	Block Heater (CSM Style)		GM62499	GM62500	GM62501
1	Block Heater replacement element		GM62639	GM62640	GM62641
2	Washer, nylon, .878 ID x .132 in OD	X-6278-4			
1	Tag, hang	279047			
1	Harness, wiring	279956			
1	Tag, instruction	299896			
4	Vibromount	328645			
2	Bushing, adapter	GM10577			
2	Valve, shutoff (3/4-14 NPT)	GM19666			
1	Valve, shutoff (1/2-14 NPT)	GM19670			
1	Bracket, block heater	GM30921			
1	Bracket, block heater	GM30922			
1	Pipe (3/4 in. NPT x 1.38 in.)	X-206-9			
1	Pipe (3/4 in. NPT x 2.50 in.)	X-206-4			
1	Pipe, cross (1 in. NPT)	X-207-1			
1	Pipe (1/2 in. NPT x 1.19 in.)	X-209-2			
1	Fitting, elbow, street 1/2 in.	X-211-1			
2	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
2	Elbow, street (45 deg. x 3/4 in. NPT)	X-274-2			
4	Stud, 5/16-18 x 1.5 in.	X-352-65			
6	Clamp, hose, .69/1.25 in.	X-426-12			
3	Connector, hose	X-582-15			
1	Connector, hose	X-582-7			
2	Connector, hose	X-582-8			
2	Washer, beveled, .44 ID x 1.25 in. OD	X-6011-4			
1	Hose, coolant 70 in.	X-6367-3			
1	Hose, coolant 56 in.	X-6367-5			
2	Clamp, insulated, 1.06 in.	X-672-32			
1	Elbow, pipe (45 deg x 1"npt)	X-225-9			
1	Pipe (1"npt x 6.50")	X-218-9			
2	Pipe, Nipple (1" NPT x 3.00")	X-218-22			
3	Elbow, pipe (90 deg x 1"npt)	X-215-15			

Cooling System Kits, continued

Block Heater Kits: GM19409-KA4-GM19409-KA6

Qty.	Description	Common Parts	Unique Parts		
			GM19409-KA4	GM19409-KA5	GM19409-KA6
1	Heater, block (CSS Style; use service kit)		361249	361240	GM42088
1	Element, replacement		GM29669	GM29665	GM42089
1	Block Heater Service Kit		GM66014-4	GM66014-5	GM66014-6
1	Block Heater (CSM Style)		GM62502	GM62498	GM62509
1	Block Heater replacement element		GM62642	GM62638	GM62649
2	Washer, nylon, .878 ID x .132 in OD	X-6278-4			
1	Tag, hang	279047			
1	Harness, wiring	279956			
1	Tag, instruction	299896			
4	Vibromount	328645			
2	Bushing, adapter	GM10577			
2	Valve, shutoff (3/4-14 NPT)	GM19666			
1	Valve, shutoff (1/2-14 NPT)	GM19670			
1	Bracket, block heater	GM30921			
1	Bracket, block heater	GM30922			
1	Fitting, tee, pipe, 1 x 1 x 1 in.	X-203-2			
1	Pipe (3/4 in. NPT x 1.38 in.)	X-206-9			
1	Pipe (3/4 in. NPT x 2.50 in.)	X-206-4			
1	Pipe, cross (1 in. NPT)	X-207-1			
1	Pipe (1/2 in. NPT x 1.19 in.)	X-209-2			
1	Fitting, elbow, street 1/2 in.	X-211-1			
1	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
2	Elbow, street (45 deg. x 3/4 in. NPT)	X-274-2			
4	Stud, 5/15-18 x 1.5 in.	X-352-65			
4	Clamp, hose, .69/1.25 in.	X-426-12			
3	Connector, hose	X-582-15			
1	Connector, hose	X-582-7			
2	Connector, hose	X-582-8			
2	Washer, beveled, .44 ID x 1.25 in. OD	X-6011-4			
1	Hose, coolant 70 in.	X-6367-3			
1	Hose, coolant 56 in.	X-6367-5			
2	Clamp, insulated, 1.06 in.	X-672-32			
1	Elbow, pipe (45 deg x 1"npt)	X-225-9			
1	Pipe (1"npt x 6.50")	X-218-9			
2	Pipe, Nipple (1" NPT x 3.00")	X-218-22			
3	Elbow, pipe (90 deg x 1"npt)	X-215-15			

Cooling System Kits, continued

Block Heater Kits: GM53095-KA1 to GM53095-KA3

Qty.	Description	Common Parts	Unique Parts		
			GM53095-KA1	GM53095-KA2	GM53095-KA3
1	Heater, block (CSS Style; use service kit)		361240	361246	361247
1	Contactator			328217	
1	Element, replacement		GM29665	GM29666	GM29667
1	Block Heater Service Kit		GM66014-55	GM66014-56	GM66014-57
1	Block Heater (CSM Style)		GM62498	GM62499	GM62500
1	Block Heater replacement element		GM62638	GM62639	GM62640
1	Tag, hang	279047			
1	Tag, instruction	299896			
4	Vibromount	328645			
1	Valve, shutoff, 3/4-14 NPT	GM19666			
2	Valve, shutoff, 1/2-14 NPT	GM19670			
1	Bracket, block heater	GM30921			
1	Bracket, block heater	GM30922			
2	Fitting, tee, pipe, 1 x 1 x 1 in.	X-203-2			
1	Pipe, 3/4 in. NPT x 2 in.	X-206-2			
2	Pipe, 1/2 in. NPT x 1.50 in.	X-209-5			
2	Elbow, street, 90° x 1/2 in. NPT	X-211-3			
1	Elbow, street, 45° x 3/4 in. NPT	X-274-2			
1	Nipple, pipe, 1 x 3 in.	X-218-22			
1	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
1	Elbow, street, 45° x 1/2 in. NPT	X-274-13			
4	Stud, 5/15-18 x 1.5 in.	X-352-65			
6	Clamp, hose, 0.69/1.25 in.	X-426-12			
3	Connector, hose	X-582-15			
2	Connector, hose	X-582-7			
1	Connector, hose	X-582-8			
2	Washer, beveled, 0.44 ID x 1.25 in. OD	X-6011-4			
1	Hose, coolant	X-6367-15			
1	Hose, coolant, 52 in.	X-6367-2			
1	Hose, coolant, 70 in.	X-6367-3			
1	Plug, pipe, 1 in. NPT	X-75-13			

Cooling System Kits, continued

Block Heater Kits: GM53095-KA4 to GM53095-KA6

Qty.	Description	Common Parts	Unique Parts		
			GM53095-KA4	GM53095-KA5	GM53095-KA6
1	Heater, block (CSS Style; use service kit)		361248	361249	GM42088
1	Element, replacement		GM29668	GM29669	GM42089
1	Block Heater Service Kit		GM66014-58	GM66014-59	GM66014-60
1	Block Heater (CSM Style)		GM62501	GM62502	GM62509
1	Block Heater replacement element		GM62641	GM62642	GM62649
1	Tag, hang	279047			
1	Tag, instruction	299896			
4	Vibromount	328645			
1	Valve, shutoff, 3/4-14 NPT	GM19666			
2	Valve, shutoff, 1/2-14 NPT	GM19670			
1	Bracket, block heater	GM30921			
1	Bracket, block heater	GM30922			
2	Fitting, tee, pipe, 1 x 1 x 1 in.	X-203-2			
1	Pipe, 3/4 in. NPT x 2 in.	X-206-2			
2	Pipe, 1/2 in. NPT x 1.50 in.	X-209-5			
2	Elbow, street, 90° x 1/2 in. NPT	X-211-3			
1	Elbow, street, 45° x 3/4 in. NPT	X-274-2			
1	Nipple, pipe, 1 x 3 in.	X-218-22			
1	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
1	Elbow, street, 45° x 1/2 in. NPT	X-274-13			
4	Stud, 5/16-18 x 1.5 in.	X-352-65			
6	Clamp, hose, 0.69/1.25 in.	X-426-12			
3	Connector, hose	X-582-15			
2	Connector, hose	X-582-7			
1	Connector, hose	X-582-8			
2	Washer, beveled, 0.44 ID x 1.25 in. OD	X-6011-4			
1	Hose, coolant	X-6367-15			
1	Hose, coolant, 52 in.	X-6367-2			
1	Hose, coolant, 70 in.	X-6367-3			
1	Plug, pipe, 1 in. NPT	X-75-13			

Block Heater Kits: GM51266-KA1 to GM51266-KA3

Qty.	Description	Common Parts	Unique Parts		
			GM51266-KA1	GM51266-KA2	GM51266-KA3
1	Heater, block (CSS Style; use service kit)		361246	361248	361249
1	Contact or		328217		
1	Block heater service element		GM29666	GM29668	GM29669
1	Block Heater Service Kit		GM66014-25	GM66014-26	GM66014-27
1	Block Heater (CSM Style)		GM62499	GM62501	GM62502
1	Block Heater replacement element		GM62639	GM62641	GM62642
1	Tag, hang	279047			
1	Tag, instruction	299896			
4	Vibromount	328645			
6	Valve, shutoff	GM19670			
1	Bracket, block heater	GM30921			
1	Bracket, block heater	GM30922			
2	Tee, pipe, 1 x 1 x 1 in. NPT	X-203-2			
1	Cross, pipe (1" npt)	X-207-1			
1	Pipe (1/2"npt x 1.19")	X-209-2			
2	Pipe (1/2"npt x 4.50")	X-209-21			
5	Pipe, 1/2 in. NPT x 1.5 in.	X-209-5			
1	Elbow, pipe, 90° x 1/2 in. NPT	X-215-1			
1	Elbow, Street(90 deg x 1/2"nptf)	X-211-1			
2	Elbow, Street(90 deg x 1/2"npt)	X-211-3			
1	Pipe, 1 in. NPT x 1.5 in.	X-218-24			
1	Elbow, street, 45° x 1 in. NPT	X-274-10			
8	Stud, 5/16-18 x 1.5 in.	X-352-65			
12	Clamp, hose, 0.69/1.25 in.	X-426-12			
6	Connector, hose	X-582-15			
6	Connector, hose	X-582-7			
1	Hose, coolant	X-6367-15			
2	Hose, coolant	X-6367-16			
1	Hose, coolant	X-6367-17			
1	Hose, coolant	X-6367-18			
1	Hose, coolant, 56 in.	X-6367-5			
1	Clamp, insulated, 0.75 in.	X-672-31			
2	Plug, pipe, 1 in. NPT	X-75-13			

Cooling System Kits, continued

Block Heater Kits: GM51266-KA4 to GM51266-KA6

Qty.	Description	Common Parts	Unique Parts		
			GM51266-KA4	GM51266-KA5	GM51266-KA6
1	Heater, block(CSS Style; use service kit)		361240	361247	GM42088
1	Block heater service element		GM29665	GM29667	GM42089
1	Block Heater Service Kit		GM66014-28	GM66014-29	GM66014-30
1	Block Heater (CSM Style)		GM62498	GM62500	GM62509
1	Block Heater replacement element		GM62638	GM62640	GM62649
1	Tag, hang	279047			
1	Tag, instruction	299896			
4	Vibromount	328645			
6	Valve, shutoff	GM19670			
1	Bracket, block heater	GM30921			
1	Bracket, block heater	GM30922			
2	Tee, pipe, 1 x 1 x 1 in. NPT	X-203-2			
1	Cross, pipe (1" npt)	X-207-1			
1	Pipe (1/2"npt x 1.19")	X-209-2			
2	Pipe (1/2"npt x 4.50")	X-209-21			
5	Pipe, 1/2 in. NPT x 1.5 in.	X-209-5			
1	Elbow, pipe, 90° x 1/2 in. NPT	X-215-1			
1	Elbow, Street(90 deg x 1/2"nptf)	X-211-1			
2	Elbow, Street(90 deg x 1/2"npt)	X-211-3			
1	Pipe, 1 in. NPT x 1.5 in.	X-218-24			
1	Elbow, street, 45° x 1 in. NPT	X-274-10			
8	Stud, 5/16-18 x 1.5 in.	X-352-65			
12	Clamp, hose, 0.69/1.25 in.	X-426-12			
6	Connector, hose	X-582-15			
6	Connector, hose	X-582-7			
1	Hose, coolant	X-6367-15			
2	Hose, coolant	X-6367-16			
1	Hose, coolant	X-6367-17			
1	Hose, coolant	X-6367-18			
1	Hose, coolant, 56 in.	X-6367-5			
1	Clamp, insulated, 0.75 in.	X-672-31			
2	Plug, pipe, 1 in. NPT	X-75-13			

Block Heater Kits: GM51438-KA1 to GM51438-KA3

Qty.	Description	Common Parts	Unique Parts		
			GM51438-KA1	GM51438-KA2	GM51438-KA3
2	Heater, block (CSS Style; use service kit)		361246	361248	361249
2	Contacto		328217		
2	Block heater service element		GM29666	GM29668	GM29669
2	Block Heater Service Kit		GM66014-7	GM66014-8	GM66014-9
2	Block Heater (CSM Style)		GM62499	GM62501	GM62502
2	Block Heater replacement element		GM62639	GM62641	GM62642
2	Tag, hang	279047			
2	Tag, instruction	299896			
8	Vibromount	328645			
4	Valve, shutoff	GM19670			
1	Bracket, block heater	GM30921			
2	Bracket, block heater	GM30922			
2	Tee, pipe, 1 x 1 x 1 in. NPT	X-203-2			
1	Pipe, 1/2 in. NPT x 3.5 in.	X-209-20			
3	Pipe, 1/2 in. NPT x 1.5 in.	X-209-5			
1	Elbow, pipe, 90° x 1/2 in. NPT	X-211-1			
2	Pipe, 1 in. NPT x 1.5 in.	X-218-24			
2	Elbow, street, 45° x 1 in. NPT	X-274-10			
1	Elbow, street, 45° x 1/2 in. NPT	X-274-13			
8	Stud, 5/16-18 x 1.5 in.	X-352-65			
8	Clamp, hose, 0.69/1.25 in.	X-426-12			
4	Connector, hose	X-582-15			
4	Connector, hose	X-582-7			
2	Hose, coolant	X-6367-15			
1	Hose, coolant	X-6367-17			
1	Hose, coolant, 56 in.	X-6367-5			
1	Clamp, insulated, 1.25 in.	X-672-20			
2	Clamp, insulated, 0.75 in.	X-672-31			
2	Plug, pipe, 1 in. NPT	X-75-13			

Cooling System Kits, continued

Block Heater Kits: GM51438-KA4 to GM51438-KA6

Qty.	Description	Common Parts	Unique Parts		
			GM51438-KA4	GM51438-KA5	GM51438-KA6
2	Heater, block (CSS Style; use service kit)		361240	361247	GM42088
2	Block heater service element		GM29665	GM29667	GM42089
2	Block Heater Service Kit		GM66014-10	GM66014-11	GM66014-12
2	Block Heater (CSM Style)		GM62498	GM62500	GM62509
2	Block Heater replacement element		GM62638	GM62640	GM62649
2	Tag, hang	279047			
2	Tag, instruction	299896			
8	Vibromount	328645			
4	Valve, shutoff	GM19670			
1	Bracket, block heater	GM30921			
2	Bracket, block heater	GM30922			
2	Tee, pipe, 1 x 1 x 1 in. NPT	X-203-2			
1	Pipe, 1/2 in. NPT x 3.5 in.	X-209-20			
3	Pipe, 1/2 in. NPT x 1.5 in.	X-209-5			
1	Elbow, pipe, 90° x 1/2 in. NPT	X-211-1			
2	Pipe, 1 in. NPT x 1.5 in.	X-218-24			
2	Elbow, street, 45° x 1 in. NPT	X-274-10			
1	Elbow, street, 45° x 1/2 in. NPT	X-274-13			
8	Stud, 5/16-18 x 1.5 in.	X-352-65			
8	Clamp, hose, 0.69/1.25 in.	X-426-12			
4	Connector, hose	X-582-15			
4	Connector, hose	X-582-7			
2	Hose, coolant	X-6367-15			
1	Hose, coolant	X-6367-17			
1	Hose, coolant, 56 in.	X-6367-5			
1	Clamp, insulated, 1.25 in.	X-672-20			
2	Clamp, insulated, 0.75 in.	X-672-31			
2	Plug, pipe, 1 in. NPT	X-75-13			

Cooling System Kits, continued

Block Heater Kits: GM64395-KA1-GM64395-KA6

Qty.	Description	Common Parts	Unique Parts		
			GM64395-KA1	GM64395-KA2	GM6435-KA3
1	Block Heater (CSM Style)		GM62498	GM62499	GM62500
1	Block Heater replacement element		GM62638	GM62639	GM62640
1	Tag, hang	279047			
1	Tag, instruction	299896			
4	Vibromount	328645			
2	Valve, shutoff (3/4-14 NPT)	GM19666			
1	Valve, shutoff (1/2-14 NPT)	GM19670			
1	Bracket, block heater	GM60615			
1	Bushing, reducing (3/4 x 1"npt)	X-202-1			
1	Pipe, Nipple (3/4" npt x 2.00")	X-206-2			
1	Cross, pipe (1" npt)	X-207-1			
2	Pipe (1/2"npt x 1.50")	X-209-5			
2	Elbow, street (90 deg x 1/2"nptf)	X-211-3			
1	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
2	Elbow, street (45 deg. x 3/4 in. NPT)	X-274-10			
1	Elbow, street (45 deg. x 3/4 in. NPT)	X-274-13			
1	Elbow, street (45 deg. x 3/4 in. NPT)	X-274-2			
4	Stud, 5/15-18 x 1.5 in.	X-352-65			
6	Clamp, hose, .69/1.25 in.	X-426-12			
3	Connector, hose	X-582-15			
2	Connector, hose	X-582-7			
1	Connector, hose	X-582-8			
2	Washer, beveled, .44 ID x 1.25 in. OD	X-6011-4			
1	Hose, coolant	X-6367-15			
1	Hose, coolant 70"	X-6367-3			
1	Hose, coolant 40"	X-6367-7			
1	Plug, pipe (1" nptf)	X-75-13			

Qty.	Description	Common Parts	Unique Parts		
			GM64395-KA4	GM64395-KA5	GM64395-KA6
1	Block Heater (CSM Style)		GM62501	GM62502	GM62509
1	Block Heater replacement element		GM62641	GM62642	GM62649
1	Tag, hang	279047			
1	Tag, instruction	299896			
4	Vibromount	328645			
2	Valve, shutoff (3/4-14 NPT)	GM19666			
1	Valve, shutoff (1/2-14 NPT)	GM19670			
1	Bracket, block heater	GM60615			
1	Bushing, reducing (3/4 x 1"npt)	X-202-1			
1	Pipe, Nipple (3/4" npt x 2.00")	X-206-2			
1	Cross, pipe (1" npt)	X-207-1			
2	Pipe (1/2"npt x 1.50")	X-209-5			
2	Elbow, street (90 deg x 1/2"nptf)	X-211-3			
1	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
2	Elbow, street (45 deg. x 3/4 in. NPT)	X-274-10			
1	Elbow, street (45 deg. x 3/4 in. NPT)	X-274-13			
1	Elbow, street (45 deg. x 3/4 in. NPT)	X-274-2			
4	Stud, 5/15-18 x 1.5 in.	X-352-65			
6	Clamp, hose, .69/1.25 in.	X-426-12			
3	Connector, hose	X-582-15			
2	Connector, hose	X-582-7			
1	Connector, hose	X-582-8			
2	Washer, beveled, .44 ID x 1.25 in. OD	X-6011-4			
1	Hose, coolant	X-6367-15			
1	Hose, coolant 70"	X-6367-3			
1	Hose, coolant 40"	X-6367-7			
1	Plug, pipe (1" nptf)	X-75-13			

Cooling System Kits, continued

Block Heater Kits: GM64396-KA1-GM64396-KA6

Qty.	Description	Common Parts	Unique Parts		
			GM64396-KA1	GM64396-KA2	GM64396-KA3
1	Block Heater (CSM Style)		GM62499	GM62500	GM62501
1	Block Heater replacement element		GM62639	GM62640	GM62641
1	Elbow, street (90 deg x 1"nptf)	151385			
1	Tag, hang	279047			
1	Tag, instruction	299896			
4	Vibromount	328645			
2	Bushing, adapter	GM10577			
2	Valve, shutoff (3/4-14 NPT)	GM19666			
1	Valve, shutoff (1/2-14 NPT)	GM19670			
1	Bracket, block heater	GM60615			
2	Fitting, tee, pipe, 1 x 1 x 1 in.	X-203-2			
1	Pipe (3/4 in. NPT x 2.50 in.)	X-206-4			
1	Pipe (3/4 in. NPT x 1.38 in.)	X-206-9			
1	Pipe (1/2 in. NPT x 1.19 in.)	X-209-2			
1	Fitting, elbow, street 1/2 in.	X-211-1			
2	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
2	Elbow, street (45 deg. x 3/4 in. NPT)	X-274-2			
4	Stud, 5/15-18 x 1.5 in.	X-352-65			
6	Clamp, hose, .69/1.25 in.	X-426-12			
3	Connector, hose	X-582-15			
1	Connector, hose	X-582-7			
2	Connector, hose	X-582-8			
2	Washer, beveled, .44 ID x 1.25 in. OD	X-6011-4			
2	Washer, nylon, .878 ID x .132 in OD	X-6278-4			
1	Hose, coolant	X-6367-14			
1	Hose, coolant	X-6367-15			
1	Hose, coolant	X-6367-5			
2	Clamp, insulated, 1.06 in.	X-672-32			
1	Plug, pipe (1" nptf)	X-75-13			

Qty.	Description	Common Parts	Unique Parts		
			GM64396-KA4	GM64396-KA5	GM64396-KA6
1	Block Heater (CSM Style)		GM62502	GM62498	GM62509
1	Block Heater replacement element		GM62642	GM62638	GM62649
1	Elbow, street (90 deg x 1"nptf)	151385			
1	Tag, hang	279047			
1	Tag, instruction	299896			
4	Vibromount	328645			
2	Bushing, adapter	GM10577			
2	Valve, shutoff (3/4-14 NPT)	GM19666			
1	Valve, shutoff (1/2-14 NPT)	GM19670			
1	Bracket, block heater	GM60615			
2	Fitting, tee, pipe, 1 x 1 x 1 in.	X-203-2			
1	Pipe (3/4 in. NPT x 2.50 in.)	X-206-4			
1	Pipe (3/4 in. NPT x 1.38 in.)	X-206-9			
1	Pipe (1/2 in. NPT x 1.19 in.)	X-209-2			
1	Fitting, elbow, street 1/2 in.	X-211-1			
2	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
2	Elbow, street (45 deg. x 3/4 in. NPT)	X-274-2			
4	Stud, 5/15-18 x 1.5 in.	X-352-65			
6	Clamp, hose, .69/1.25 in.	X-426-12			
3	Connector, hose	X-582-15			
1	Connector, hose	X-582-7			
2	Connector, hose	X-582-8			
2	Washer, beveled, .44 ID x 1.25 in. OD	X-6011-4			
2	Washer, nylon, .878 ID x .132 in OD	X-6278-4			
1	Hose, coolant	X-6367-14			
1	Hose, coolant	X-6367-15			
1	Hose, coolant	X-6367-5			
2	Clamp, insulated, 1.06 in.	X-672-32			
1	Plug, pipe (1" nptf)	X-75-13			

Cooling System Kits, continued

Block Heater Kits: GM64397-KA1-GM64397-KA6

Qty.	Description	Common Parts	Unique Parts		
			GM64397-KA1	GM64397-KA2	GM64397-KA3
1	Block Heater (CSM Style)		GM62499	GM62501	GM62502
1	Block Heater replacement element		GM62639	GM62641	GM62642
1	Elbow, street (90 deg x 1"nptf)	151385			
1	Tag, hang	279047			
1	Tag, instruction	299896			
4	Vibromount	328645			
4	Valve, shutoff (1/2-14 NPT)	GM19670			
1	Bracket, block heater	GM60615			
2	Tee, pipe, 1 x 1 x 1 in.	X-203-2			
1	Pipe (1/2"npt x 3.50")	X-209-20			
2	Pipe (1/2"npt x 1.50")	X-209-5			
1	Pipe (1/2"npt x 2.00")	X-209-6			
1	Fitting, elbow, street 1/2 in.	X-211-1			
2	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
1	Elbow, street (45 deg x 1"npt)	X-274-10			
1	Elbow, street (45 deg x 1/2"npt)	X-274-13			
8	Stud, 5/15-18 x 1.5 in.	X-352-65			
8	Clamp, hose, .69/1.25 in.	X-426-12			
4	Connector, hose	X-582-15			
4	Connector, hose	X-582-7			
1	Hose, coolant	X-6367-15			
1	Hose, coolant	X-6367-17			
1	Hose, coolant 56"	X-6367-5			
1	Clamp, insulated, 1.25 in.	X-672-20			
2	Clamp, insulated, .75 in.	X-672-31			
2	Plug, pipe (1" nptf)	X-75-13			

Qty.	Description	Common Parts	Unique Parts		
			GM64397-KA4	GM64397-KA5	GM64397-KA6
1	Block Heater (CSM Style)		GM62498	GM62500	GM62509
1	Block Heater replacement element		GM62638	GM62640	GM62649
1	Elbow, street (90 deg x 1"nptf)	151385			
1	Tag, hang	279047			
1	Tag, instruction	299896			
4	Vibromount	328645			
4	Valve, shutoff (1/2-14 NPT)	GM19670			
1	Bracket, block heater	GM60615			
2	Tee, pipe, 1 x 1 x 1 in.	X-203-2			
1	Pipe (1/2"npt x 3.50")	X-209-20			
2	Pipe (1/2"npt x 1.50")	X-209-5			
1	Pipe (1/2"npt x 2.00")	X-209-6			
1	Fitting, elbow, street 1/2 in.	X-211-1			
2	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
1	Elbow, street (45 deg x 1"npt)	X-274-10			
1	Elbow, street (45 deg x 1/2"npt)	X-274-13			
8	Stud, 5/15-18 x 1.5 in.	X-352-65			
8	Clamp, hose, .69/1.25 in.	X-426-12			
4	Connector, hose	X-582-15			
4	Connector, hose	X-582-7			
1	Hose, coolant	X-6367-15			
1	Hose, coolant	X-6367-17			
1	Hose, coolant 56"	X-6367-5			
1	Clamp, insulated, 1.25 in.	X-672-20			
2	Clamp, insulated, .75 in.	X-672-31			
2	Plug, pipe (1" nptf)	X-75-13			

Cooling System Kits, continued

Block Heater Kits: GM64399-KA1-GM64399-KA6

Qty.	Description	Common Parts	Unique Parts		
			GM64399-KA1	GM64399-KA2	GM64399-KA3
1	Block Heater (CSM Style)		GM62499	GM62501	GM62502
1	Block Heater replacement element		GM62639	GM62641	GM62642
1	Elbow, street (90 deg x 1"nptf)	151385			
1	Tag, hang	279047			
1	Tag, instruction	299896			
8	Vibromount	328645			
6	Valve, shutoff (1/2-14 NPT)	GM19670			
2	Bracket, block heater	GM60615			
2	Tee, pipe, 1 x 1 x 1 in.	X-203-2			
1	Cross, pipe (1" npt)	X-207-1			
1	Pipe (1/2"npt x 1.19")	X-209-2			
2	Pipe (1/2"npt x 4.50")	X-209-21			
5	Pipe (1/2"npt x 1.50")	X-209-5			
1	Fitting, elbow, street 1/2 in.	X-211-1			
2	Elbow, street (90 deg x 1/2"nptf)	X-211-3			
2	Elbow, pipe (90 deg x 1/2"npt)	X-215-1			
3	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
1	Elbow, street (45 deg x 1"npt)	X-274-10			
8	Stud, 5/16-18 x 1.5 in.	X-352-65			
12	Clamp, hose, .69/1.25 in.	X-426-12			
6	Connector, hose	X-582-15			
6	Connector, hose	X-582-7			
1	Hose, coolant	X-6367-15			
1	Hose, coolant	X-6367-16			
2	Hose, coolant	X-6367-17			
1	Hose, coolant 70"	X-6367-3			
1	Hose, coolant 56"	X-6367-5			
1	Clamp, insulated, .75 in.	X-672-31			
2	Plug, pipe (1" nptf)	X-75-13			

Qty.	Description	Common Parts	Unique Parts		
			GM64399-KA4	GM64399-KA5	GM64399-KA6
1	Block Heater (CSM Style)		GM62498	GM62500	GM62509
1	Block Heater replacement element		GM62638	GM62640	GM62649
1	Elbow, street (90 deg x 1"nptf)	151385			
1	Tag, hang	279047			
1	Tag, instruction	299896			
8	Vibromount	328645			
6	Valve, shutoff (1/2-14 NPT)	GM19670			
2	Bracket, block heater	GM60615			
2	Tee, pipe, 1 x 1 x 1 in.	X-203-2			
1	Cross, pipe (1" npt)	X-207-1			
1	Pipe (1/2"npt x 1.19")	X-209-2			
2	Pipe (1/2"npt x 4.50")	X-209-21			
5	Pipe (1/2"npt x 1.50")	X-209-5			
1	Fitting, elbow, street 1/2 in.	X-211-1			
2	Elbow, street (90 deg x 1/2"nptf)	X-211-3			
2	Elbow, pipe (90 deg x 1/2"npt)	X-215-1			
3	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
1	Elbow, street (45 deg x 1"npt)	X-274-10			
8	Stud, 5/16-18 x 1.5 in.	X-352-65			
12	Clamp, hose, .69/1.25 in.	X-426-12			
6	Connector, hose	X-582-15			
6	Connector, hose	X-582-7			
1	Hose, coolant	X-6367-15			
1	Hose, coolant	X-6367-16			
2	Hose, coolant	X-6367-17			
1	Hose, coolant 70"	X-6367-3			
1	Hose, coolant 56"	X-6367-5			
1	Clamp, insulated, .75 in.	X-672-31			
2	Plug, pipe (1" nptf)	X-75-13			

Cooling System Kits, continued

Block Heater Kits: GM79185-KA1-GM79185-KA3

Qty.	Description	Common Parts	Unique Parts		
			GM79185-KA1	GM79185-KA2	GM79185-KA3
1	Heater, block		GM79182	GM79183	GM79184
1	Bushing, reducing (1/2 x 3/4 in NPT)	153659			
1	Tag, hang	279047			
1	Bushing, adapter	GM10577			
2	Valve, shutoff	GM19670			
1	Bracket, block heater	GM38834			
1	Bushing, reducing (1/4 x 1/2"npt)	X-202-47			
1	Fitting, tee, pipe, 1/2 x 1/2 x 1/2 in.	X-203-13			
1	Pipe, 1/2 NPT x 3 in.	X-209-11			
2	Pipe, 1/2 NPT x 1.19 in.	X-209-2			
1	Fitting, elbow, street 1/2 in.	X-211-1			
1	Valve, drain (1/4 in. NPT)	X-256-3			
3	Elbow, street (45 deg. x 1/2 in. NPT)	X-274-13			
1	Elbow, street (45 deg. x 3/4 in. NPT)	X-274-15			
4	Clamp, hose, .69/1.25 in.	X-426-12			
2	Connector, hose	X-582-7			
2	Hose, coolant 40 in.	X-6367-7			

Cooling System Kits, continued

Block Heater Kits: GM77395-KA1-GM77395-KA6

Qty.	Description	Common Parts	Unique Parts		
			GM77395-KA1	GM77395-KA2	GM77395-KA3
1	Block Heater (CSM Style)		GM62498	GM62499	GM62500
1	Block Heater replacement element		GM62638	GM62639	GM62640
1	Tag, hang	279047			
1	Tag, instruction	299896			
4	Vibromount	328645			
1	Valve, shutoff (3/4-14 NPT)	GM19666			
2	Valve, shutoff (1/2-14 NPT)	GM19670			
1	Bracket, block heater	GM60615			
1	Bushing, reducing (3/4 x 1"npt)	X-202-1			
1	Pipe, Nipple (3/4" npt x 2.00")	X-206-2			
1	Cross, pipe (1" npt)	X-207-1			
2	Pipe (1/2"npt x 1.50")	X-209-5			
2	Elbow, street (90 deg x 1/2"nptf)	X-211-3			
1	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
2	Elbow, street (45 deg. x 3/4 in. NPT)	X-274-10			
1	Elbow, street (45 deg. x 3/4 in. NPT)	X-274-13			
1	Elbow, street (45 deg. x 3/4 in. NPT)	X-274-2			
4	Stud, 5/15-18 x 1.5 in.	X-352-65			
6	Clamp, hose, .69/1.25 in.	X-426-12			
3	Connector, hose	X-582-15			
2	Connector, hose	X-582-7			
1	Connector, hose	X-582-8			
1	Hose, coolant	X-6367-15			
1	Hose, coolant 70"	X-6367-3			
1	Hose, coolant 40"	X-6367-7			
1	Plug, pipe (1" nptf)	X-75-13			

Qty.	Description	Common Parts	Unique Parts		
			GM77395-KA4	GM77395-KA5	GM77395-KA6
1	Block Heater (CSM Style)		GM62501	GM62502	GM62509
1	Block Heater replacement element		GM62641	GM62642	GM62649
1	Tag, hang	279047			
1	Tag, instruction	299896			
4	Vibromount	328645			
1	Valve, shutoff (3/4-14 NPT)	GM19666			
2	Valve, shutoff (1/2-14 NPT)	GM19670			
1	Bracket, block heater	GM60615			
1	Bushing, reducing (3/4 x 1"npt)	X-202-1			
1	Pipe, Nipple (3/4" npt x 2.00")	X-206-2			
1	Cross, pipe (1" npt)	X-207-1			
2	Pipe (1/2"npt x 1.50")	X-209-5			
2	Elbow, street (90 deg x 1/2"nptf)	X-211-3			
1	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
2	Elbow, street (45 deg. x 3/4 in. NPT)	X-274-10			
1	Elbow, street (45 deg. x 3/4 in. NPT)	X-274-13			
1	Elbow, street (45 deg. x 3/4 in. NPT)	X-274-2			
4	Stud, 5/15-18 x 1.5 in.	X-352-65			
6	Clamp, hose, .69/1.25 in.	X-426-12			
3	Connector, hose	X-582-15			
2	Connector, hose	X-582-7			
1	Connector, hose	X-582-8			
1	Hose, coolant	X-6367-15			
1	Hose, coolant 70"	X-6367-3			
1	Hose, coolant 40"	X-6367-7			
1	Plug, pipe (1" nptf)	X-75-13			

Appendix A Abbreviations

The following list contains abbreviations that may appear in this publication.

A, amp	ampere	CG	center of gravity	etc.	et cetera (and so forth)
ABDC	after bottom dead center	CID	cubic inch displacement	exh.	exhaust
AC	alternating current	CL	centerline	ext.	external
A/D	analog to digital	cm	centimeter	F	Fahrenheit, female
ADC	advanced digital control; analog to digital converter	CMOS	complementary metal oxide substrate (semiconductor)	fglass.	fiberglass
adj.	adjust, adjustment	cogen.	cogeneration	FHM	flat head machine (screw)
ADV	advertising dimensional drawing	com	communications (port)	fl. oz.	fluid ounce
Ah	amp-hour	coml	commercial	flex.	flexible
AHWT	anticipatory high water temperature	Coml/Rec	Commercial/Recreational	freq.	frequency
AISI	American Iron and Steel Institute	conn.	connection	FS	full scale
ALOP	anticipatory low oil pressure	cont.	continued	ft.	foot, feet
alt.	alternator	CPVC	chlorinated polyvinyl chloride	ft. lb.	foot pounds (torque)
Al	aluminum	crit.	critical	ft./min.	feet per minute
ANSI	American National Standards Institute (formerly American Standards Association, ASA)	CRT	cathode ray tube	ftp	file transfer protocol
AO	anticipatory only	CSA	Canadian Standards Association	g	gram
APDC	Air Pollution Control District	CT	current transformer	ga.	gauge (meters, wire size)
API	American Petroleum Institute	Cu	copper	gal.	gallon
approx.	approximate, approximately	cUL	Canadian Underwriter's Laboratories	gen.	generator
AR	as required, as requested	CUL	Canadian Underwriter's Laboratories	genset	generator set
AS	as supplied, as stated, as suggested	cu. in.	cubic inch	GFI	ground fault interrupter
ASE	American Society of Engineers	cw.	clockwise	GND, ⊕	ground
ASME	American Society of Mechanical Engineers	CWC	city water-cooled	gov.	governor
assy.	assembly	cyl.	cylinder	gph	gallons per hour
ASTM	American Society for Testing Materials	D/A	digital to analog	gpm	gallons per minute
ATDC	after top dead center	DAC	digital to analog converter	gr.	grade, gross
ATS	automatic transfer switch	dB	decibel	GRD	equipment ground
auto.	automatic	dB(A)	decibel (A weighted)	gr. wt.	gross weight
aux.	auxiliary	DC	direct current	H x W x D	height by width by depth
avg.	average	DCR	direct current resistance	HC	hex cap
AVR	automatic voltage regulator	deg., °	degree	HCHT	high cylinder head temperature
AWG	American Wire Gauge	dept.	department	HD	heavy duty
AWM	appliance wiring material	DFMEA	Design Failure Mode and Effects Analysis	HET	high exhaust temp., high engine temp.
bat.	battery	dia.	diameter	hex	hexagon
BBDC	before bottom dead center	DI/EO	dual inlet/end outlet	Hg	mercury (element)
BC	battery charger, battery charging	DIN	Deutsches Institut für Normung e. V. (also Deutsche Industrie Normenausschuss)	HH	hex head
BCA	battery charging alternator	DIP	dual inline package	HHC	hex head cap
BCI	Battery Council International	DPDT	double-pole, double-throw	HP	horsepower
BDC	before dead center	DPST	double-pole, single-throw	hr.	hour
BHP	brake horsepower	DS	disconnect switch	HS	heat shrink
blk.	black (paint color), block (engine)	DVR	digital voltage regulator	hsg.	housing
blk. htr.	block heater	E, emer.	emergency (power source)	HWT	high water temperature
BMEP	brake mean effective pressure	ECM	electronic control module, engine control module	Hz	hertz (cycles per second)
bps	bits per second	EFR	emergency frequency relay	IC	integrated circuit
br.	brass	e.g.	for example (<i>exempli gratia</i>)	ID	inside diameter, identification
BTDC	before top dead center	EG	electronic governor	IEC	International Electrotechnical Commission
Btu	British thermal unit	EGSA	Electrical Generating Systems Association	IEEE	Institute of Electrical and Electronics Engineers
Btu/min.	British thermal units per minute	EIA	Electronic Industries Association	IMS	improved motor starting
C	Celsius, centigrade	EI/EO	end inlet/end outlet	in.	inch
cal.	calorie	EMI	electromagnetic interference	in. H ₂ O	inches of water
CAN	controller area network	emiss.	emission	in. Hg	inches of mercury
CARB	California Air Resources Board	eng.	engine	in. lb.	inch pounds
CB	circuit breaker	EPA	Environmental Protection Agency	Inc.	incorporated
cc	cubic centimeter	EPS	emergency power system	ind.	industrial
CCA	cold cranking amps	ER	emergency relay	int.	internal
ccw.	counterclockwise	ES	engineering special, engineered special	int./ext.	internal/external
CEC	Canadian Electrical Code	ESD	electrostatic discharge	I/O	input/output
cert.	certificate, certification, certified	est.	estimated	IP	iron pipe
cfh	cubic feet per hour	E-Stop	emergency stop	ISO	International Organization for Standardization
cfm	cubic feet per minute			J	joule
				JIS	Japanese Industry Standard
				k	kilo (1000)
				K	kelvin
				kA	kiloampere
				KB	kilobyte (2 ¹⁰ bytes)

KBus	Kohler communication protocol	MW	megawatt	rnd.	round
kg	kilogram	mW	milliwatt	ROM	read only memory
kg/cm ²	kilograms per square centimeter	μF	microfarad	rot.	rotate, rotating
kgm	kilogram-meter	N, norm.	normal (power source)	rpm	revolutions per minute
kg/m ³	kilograms per cubic meter	NA	not available, not applicable	RS	right side
kHz	kilohertz	nat. gas	natural gas	RTU	remote terminal unit
kJ	kilojoule	NBS	National Bureau of Standards	RTV	room temperature vulcanization
km	kilometer	NC	normally closed	RW	read/write
kOhm, kΩ	kilo-ohm	NEC	National Electrical Code	SAE	Society of Automotive Engineers
kPa	kilopascal	NEMA	National Electrical Manufacturers Association	scfm	standard cubic feet per minute
kph	kilometers per hour	NFPA	National Fire Protection Association	SCR	silicon controlled rectifier
kV	kilovolt	Nm	newton meter	s, sec.	second
kVA	kilovolt ampere	NO	normally open	SI	<i>Système international d'unités</i> , International System of Units
kVAR	kilovolt ampere reactive	no., nos.	number, numbers	SI/EO	side in/end out
kW	kilowatt	NPS	National Pipe, Straight	sil.	silencer
kWh	kilowatt-hour	NPSC	National Pipe, Straight-coupling	SN	serial number
kWm	kilowatt mechanical	NPT	National Standard taper pipe thread per general use	SNMP	simple network management protocol
kWth	kilowatt-thermal	NPTF	National Pipe, Taper-Fine	SPDT	single-pole, double-throw
L	liter	NR	not required, normal relay	SPST	single-pole, single-throw
LAN	local area network	ns	nanosecond	spec	specification
L x W x H	length by width by height	OC	overcrank	specs	specification(s)
lb.	pound, pounds	OD	outside diameter	sq.	square
lbm/ft ³	pounds mass per cubic feet	OEM	original equipment manufacturer	sq. cm	square centimeter
LCB	line circuit breaker	OF	overfrequency	sq. in.	square inch
LCD	liquid crystal display	opt.	option, optional	SS	stainless steel
ld. shd.	load shed	OS	oversize, overspeed	std.	standard
LED	light emitting diode	OSHA	Occupational Safety and Health Administration	stl.	steel
Lph	liters per hour	OV	overvoltage	tach.	tachometer
Lpm	liters per minute	oz.	ounce	TD	time delay
LOP	low oil pressure	p., pp.	page, pages	TDC	top dead center
LP	liquefied petroleum	PC	personal computer	TDEC	time delay engine cooldown
LPG	liquefied petroleum gas	PCB	printed circuit board	TDEN	time delay emergency to normal
LS	left side	pF	picofarad	TDES	time delay engine start
L _{wa}	sound power level, A weighted	PF	power factor	TDNE	time delay normal to emergency
LWL	low water level	ph., ∅	phase	TDOE	time delay off to emergency
LWT	low water temperature	PHC	Phillips® head Crimptite® (screw)	TDON	time delay off to normal
m	meter, milli (1/1000)	PHH	Phillips® hex head (screw)	temp.	temperature
M	mega (10 ⁶ when used with SI units), male	PHM	pan head machine (screw)	term.	terminal
m ³	cubic meter	PLC	programmable logic control	THD	total harmonic distortion
m ³ /hr.	cubic meters per hour	PMG	permanent magnet generator	TIF	telephone influence factor
m ³ /min.	cubic meters per minute	pot	potentiometer, potential	TIR	total indicator reading
mA	milliampere	ppm	parts per million	tol.	tolerance
man.	manual	PROM	programmable read-only memory	turbo.	turbocharger
max.	maximum	psi	pounds per square inch	typ.	typical (same in multiple locations)
MB	megabyte (2 ²⁰ bytes)	psig	pounds per square inch gauge	UF	underfrequency
MCCB	molded-case circuit breaker	pt.	pint	UHF	ultrahigh frequency
MCM	one thousand circular mils	PTC	positive temperature coefficient	UL	Underwriter's Laboratories, Inc.
meggar	megohmmeter	PTO	power takeoff	UNC	unified coarse thread (was NC)
MHz	megahertz	PVC	polyvinyl chloride	UNF	unified fine thread (was NF)
mi.	mile	qt.	quart, quarts	univ.	universal
mil	one one-thousandth of an inch	qty.	quantity	US	undersize, underspeed
min.	minimum, minute	R	replacement (emergency) power source	UV	ultraviolet, undervoltage
misc.	miscellaneous	rad.	radiator, radius	V	volt
MJ	megajoule	RAM	random access memory	VAC	volts alternating current
mJ	millijoule	RDO	relay driver output	VAR	voltampere reactive
mm	millimeter	ref.	reference	VDC	volts direct current
mOhm, mΩ	milliohm	rem.	remote	VFD	vacuum fluorescent display
MOhm, MΩ	megohm	Res/Coml	Residential/Commercial	VGA	video graphics adapter
MOV	metal oxide varistor	RFI	radio frequency interference	VHF	very high frequency
MPa	megapascal	RH	round head	W	watt
mpg	miles per gallon	RHM	round head machine (screw)	WCR	withstand and closing rating
mph	miles per hour	rly.	relay	w/	with
MS	military standard	rms	root mean square	w/o	without
ms	millisecond			wt.	weight
m/sec.	meters per second			xfrm	transformer
MTBF	mean time between failure				
MTBO	mean time between overhauls				
mtg.	mounting				
MTU	Motoren-und Turbinen-Union				

Appendix B 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 1 as a guide. As a general rule, a minimum length of one thread beyond the nut and a maximum length of 1/2 the bolt/screw diameter beyond the nut is the preferred method.

Washers and Nuts: Use split lock washers as a bolt locking device where specified. Use SAE flat washers with whiz nuts, spirallock nuts, or standard nuts and preloading (torque) of the bolt in all other applications.

See Appendix C, General Torque Specifications, and other torque specifications in the service literature.

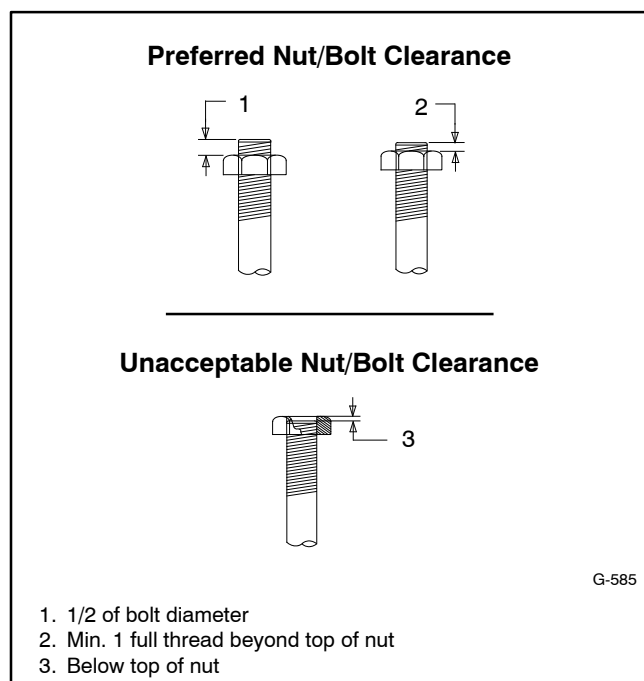


Figure 1 Acceptable Bolt Lengths

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 or spirallock nut. See Figure 2.

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 Figure 2, which depicts the preceding hardware configuration possibilities.

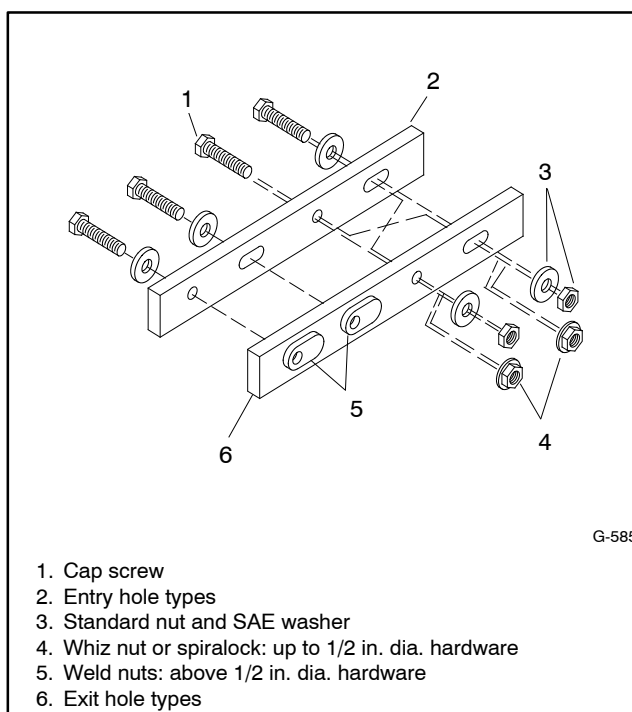


Figure 2 Acceptable Hardware Combinations

Appendix C General Torque Specifications

American Standard Fasteners Torque Specifications					
Size	Torque Measurement	Assembled into Cast Iron or Steel			Assembled into Aluminum Grade 2 or 5
		Grade 2	Grade 5	Grade 8	
8-32	Nm (in. lb.)	1.8 (16)	2.3 (20)	—	See Note 3
10-24	Nm (in. lb.)	2.9 (26)	3.6 (32)	—	
10-32	Nm (in. lb.)	2.9 (26)	3.6 (32)	—	
1/4-20	Nm (in. lb.)	6.8 (60)	10.8 (96)	14.9 (132)	
1/4-28	Nm (in. lb.)	8.1 (72)	12.2 (108)	16.3 (144)	
5/16-18	Nm (in. lb.)	13.6 (120)	21.7 (192)	29.8 (264)	
5/16-24	Nm (in. lb.)	14.9 (132)	23.1 (204)	32.5 (288)	
3/8-16	Nm (ft. lb.)	24.0 (18)	38.0 (28)	53.0 (39)	
3/8-24	Nm (ft. lb.)	27.0 (20)	42.0 (31)	60.0 (44)	
7/16-14	Nm (ft. lb.)	39.0 (29)	60.0 (44)	85.0 (63)	
7/16-20	Nm (ft. lb.)	43.0 (32)	68.0 (50)	95.0 (70)	
1/2-13	Nm (ft. lb.)	60.0 (44)	92.0 (68)	130.0 (96)	
1/2-20	Nm (ft. lb.)	66.0 (49)	103.0 (76)	146.0 (108)	
9/16-12	Nm (ft. lb.)	81.0 (60)	133.0 (98)	187.0 (138)	
9/16-18	Nm (ft. lb.)	91.0 (67)	148.0 (109)	209.0 (154)	
5/8-11	Nm (ft. lb.)	113.0 (83)	183.0 (135)	259.0 (191)	
5/8-18	Nm (ft. lb.)	128.0 (94)	208.0 (153)	293.0 (216)	
3/4-10	Nm (ft. lb.)	199.0 (147)	325.0 (240)	458.0 (338)	
3/4-16	Nm (ft. lb.)	222.0 (164)	363.0 (268)	513.0 (378)	
1-8	Nm (ft. lb.)	259.0 (191)	721.0 (532)	1109.0 (818)	
1-12	Nm (ft. lb.)	283.0 (209)	789.0 (582)	1214.0 (895)	

Metric Fasteners Torque Specifications, Measured in Nm (ft. lb.)				
Size (mm)	Assembled into Cast Iron or Steel			Assembled into Aluminum Grade 5.8 or 8.8
	Grade 5.8	Grade 8.8	Grade 10.9	
M6 x 1.00	6.2 (4.6)	9.5 (7)	13.6 (10)	See Note 3
M8 x 1.25	15.0 (11)	23.0 (17)	33.0 (24)	
M8 x 1.00	16.0 (11)	24.0 (18)	34.0 (25)	
M10 x 1.50	30.0 (22)	45.0 (34)	65.0 (48)	
M10 x 1.25	31.0 (23)	47.0 (35)	68.0 (50)	
M12 x 1.75	53.0 (39)	80.0 (59)	115.0 (85)	
M12 x 1.50	56.0 (41)	85.0 (63)	122.0 (90)	
M14 x 2.00	83.0 (61)	126.0 (93)	180.0 (133)	
M14 x 1.50	87.0 (64)	133.0 (98)	190.0 (140)	
M16 x 2.00	127.0 (94)	194.0 (143)	278.0 (205)	
M16 x 1.50	132.0 (97)	201.0 (148)	287.0 (212)	
M18 x 2.50	179.0 (132)	273.0 (201)	390.0 (288)	
M18 x 1.50	189.0 (140)	289.0 (213)	413.0 (305)	

Notes:

1. The torque values above are general guidelines. Always use the torque values specified in the service manuals and/or assembly drawings when they differ from the above torque values.
2. The torque values above are based on new plated threads. Increase torque values by 15% if non-plated threads are used.
3. Hardware threaded into aluminum must have either two diameters of thread engagement or a 30% or more reduction in the torque to prevent stripped threads.
4. Torque values are calculated as equivalent stress loading on American hardware with an approximate preload of 90% of the yield strength and a friction coefficient of 0.125.

Appendix D Common Hardware Identification

Screw/Bolts/Studs	
Head Styles	
Hex Head or Machine Head	
Hex Head or Machine Head with Washer	
Flat Head (FHM)	
Round Head (RHM)	
Pan Head	
Hex Socket Head Cap or Allen™ Head Cap	
Hex Socket Head or Allen™ Head Shoulder Bolt	
Sheet Metal Screw	
Stud	
Drive Styles	
Hex	
Hex and Slotted	
Phillips®	
Slotted	
Hex Socket	

Nuts	
Nut Styles	
Hex Head	
Lock or Elastic	
Square	
Cap or Acorn	
Wing	
Washers	
Washer Styles	
Plain	
Split Lock or Spring	
Spring or Wave	
External Tooth Lock	
Internal Tooth Lock	
Internal-External Tooth Lock	

Hardness Grades	
American Standard	
Grade 2	
Grade 5	
Grade 8	
Grade 8/9 (Hex Socket Head)	
Metric	
Number stamped on hardware; 5.8 shown	

Allen™ head screw is a trademark of Holo-Krome Co.

Phillips® screw is a registered trademark of Phillips Screw Company.

Sample Dimensions

American Standard (Screws, Bolts, Studs, and Nuts)

$\frac{1}{4}$ -20 x 1
 — Length In Inches (Screws and Bolts)
 — Threads Per Inch
 — Major Thread Diameter In Fractional Inches Or Screw Number Size

Metric (Screws, Bolts, Studs, and Nuts)

M8-1.25 x 20
 — Length In Millimeters (Screws and Bolts)
 — Distance Between Threads In Millimeters
 — Major Thread Diameter In Millimeters

Plain Washers

$\frac{9}{32}$ x $\frac{5}{8}$ x $\frac{1}{16}$
 — Thickness
 — External Dimension
 — Internal Dimension

Lock Washers

$\frac{5}{8}$
 — Internal Dimension

Appendix E Common Hardware List

The Common Hardware List lists part numbers and dimensions for common hardware items.

American Standard

Part No. Dimensions Hex Head Bolts (Grade 5)

X-465-17	1/4-20 x .38
X-465-6	1/4-20 x .50
X-465-2	1/4-20 x .62
X-465-16	1/4-20 x .75
X-465-18	1/4-20 x .88
X-465-7	1/4-20 x 1.00
X-465-8	1/4-20 x 1.25
X-465-9	1/4-20 x 1.50
X-465-10	1/4-20 x 1.75
X-465-11	1/4-20 x 2.00
X-465-12	1/4-20 x 2.25
X-465-14	1/4-20 x 2.75
X-465-21	1/4-20 x 5.00
X-465-25	1/4-28 x .38
X-465-20	1/4-28 x 1.00
X-125-33	5/16-18 x .50
X-125-23	5/16-18 x .62
X-125-3	5/16-18 x .75
X-125-31	5/16-18 x .88
X-125-5	5/16-18 x 1.00
X-125-24	5/16-18 x 1.25
X-125-34	5/16-18 x 1.50
X-125-25	5/16-18 x 1.75
X-125-26	5/16-18 x 2.00
230578	5/16-18 x 2.25
X-125-29	5/16-18 x 2.50
X-125-27	5/16-18 x 2.75
X-125-28	5/16-18 x 3.00
X-125-22	5/16-18 x 4.50
X-125-32	5/16-18 x 5.00
X-125-35	5/16-18 x 5.50
X-125-36	5/16-18 x 6.00
X-125-40	5/16-18 x 6.50
X-125-43	5/16-24 x 1.75
X-125-44	5/16-24 x 2.50
X-125-30	5/16-24 x .75
X-125-39	5/16-24 x 2.00
X-125-38	5/16-24 x 2.75
X-6238-2	3/8-16 x .62
X-6238-10	3/8-16 x .75
X-6238-3	3/8-16 x .88
X-6238-11	3/8-16 x 1.00
X-6238-4	3/8-16 x 1.25
X-6238-5	3/8-16 x 1.50
X-6238-1	3/8-16 x 1.75
X-6238-6	3/8-16 x 2.00
X-6238-17	3/8-16 x 2.25
X-6238-7	3/8-16 x 2.50
X-6238-8	3/8-16 x 2.75
X-6238-9	3/8-16 x 3.00
X-6238-19	3/8-16 x 3.25
X-6238-12	3/8-16 x 3.50
X-6238-20	3/8-16 x 3.75
X-6238-13	3/8-16 x 4.50
X-6238-18	3/8-16 x 5.50
X-6238-25	3/8-16 x 6.50

Part No. Dimensions Hex Head Bolts, cont.

X-6238-14	3/8-24 x .75
X-6238-16	3/8-24 x 1.25
X-6238-21	3/8-24 x 4.00
X-6238-22	3/8-24 x 4.50
X-6024-5	7/16-14 x .75
X-6024-2	7/16-14 x 1.00
X-6024-8	7/16-14 x 1.25
X-6024-3	7/16-14 x 1.50
X-6024-4	7/16-14 x 2.00
X-6024-11	7/16-14 x 2.75
X-6024-12	7/16-14 x 6.50
X-129-15	1/2-13 x .75
X-129-17	1/2-13 x 1.00
X-129-18	1/2-13 x 1.25
X-129-19	1/2-13 x 1.50
X-129-20	1/2-13 x 1.75
X-129-21	1/2-13 x 2.00
X-129-22	1/2-13 x 2.25
X-129-23	1/2-13 x 2.50
X-129-24	1/2-13 x 2.75
X-129-25	1/2-13 x 3.00
X-129-27	1/2-13 x 3.50
X-129-29	1/2-13 x 4.00
X-129-30	1/2-13 x 4.50
X-463-9	1/2-13 x 5.50
X-129-44	1/2-13 x 6.00
X-129-51	1/2-20 x .75
X-129-45	1/2-20 x 1.25
X-129-52	1/2-20 x 1.50
X-6021-3	5/8-11 x 1.00
X-6021-4	5/8-11 x 1.25
X-6021-2	5/8-11 x 1.50
X-6021-1	5/8-11 x 1.75
273049	5/8-11 x 2.00
X-6021-5	5/8-11 x 2.25
X-6021-6	5/8-11 x 2.50
X-6021-7	5/8-11 x 2.75
X-6021-12	5/8-11 x 3.75
X-6021-11	5/8-11 x 4.50
X-6021-10	5/8-11 x 6.00
X-6021-9	5/8-18 x 2.50
X-6239-1	3/4-10 x 1.00
X-6239-8	3/4-10 x 1.25
X-6239-2	3/4-10 x 1.50
X-6239-3	3/4-10 x 2.00
X-6239-4	3/4-10 x 2.50
X-6239-5	3/4-10 x 3.00
X-6239-6	3/4-10 x 3.50
X-792-1	1-8 x 2.25
X-792-5	1-8 x 3.00
X-792-8	1-8 x 5.00

Part No. Dimensions Type

Hex Nuts

X-6009-1	1-8	Standard
X-6210-3	6-32	Whiz
X-6210-4	8-32	Whiz
X-6210-5	10-24	Whiz
X-6210-1	10-32	Whiz
X-6210-2	1/4-20	Spiralock
X-6210-6	1/4-28	Spiralock
X-6210-7	5/16-18	Spiralock
X-6210-8	5/16-24	Spiralock
X-6210-9	3/8-16	Spiralock
X-6210-10	3/8-24	Spiralock
X-6210-11	7/16-14	Spiralock
X-6210-12	1/2-13	Spiralock
X-6210-15	7/16-20	Spiralock
X-6210-14	1/2-20	Spiralock
X-85-3	5/8-11	Standard
X-88-12	3/4-10	Standard
X-89-2	1/2-20	Standard

Washers

Part No.	ID	OD	Thick.	Bolt/ Screw
X-25-46	.125	.250	.022	#4
X-25-9	.156	.375	.049	#6
X-25-48	.188	.438	.049	#8
X-25-36	.219	.500	.049	#10
X-25-40	.281	.625	.065	1/4
X-25-85	.344	.687	.065	5/16
X-25-37	.406	.812	.065	3/8
X-25-34	.469	.922	.065	7/16
X-25-26	.531	1.062	.095	1/2
X-25-15	.656	1.312	.095	5/8
X-25-29	.812	1.469	.134	3/4
X-25-127	1.062	2.000	.134	1

Metric

Hex head bolts are hardness grade 8.8 unless noted.

Part No. Dimensions Hex Head Bolts (Partial Thread)

M931-05055-60	M5-0.80 x 55
M931-06040-60	M6-1.00 x 40
M931-06055-60	M6-1.00 x 55
M931-06060-60	M6-1.00 x 60
M931-06060-SS	M6-1.00 x 60
M931-06070-60	M6-1.00 x 70
M931-06070-SS	M6-1.00 x 70
M931-06075-60	M6-1.00 x 75
M931-06090-60	M6-1.00 x 90
M931-06145-60	M6-1.00 x 145
M931-06150-60	M6-1.00 x 150
M931-08035-60	M8-1.25 x 35
M931-08040-60	M8-1.25 x 40
M931-08045-60	M8-1.25 x 45
M931-08050-60	M8-1.25 x 50
M931-08055-60	M8-1.25 x 55
M931-08055-82	M8-1.25 x 55*
M931-08060-60	M8-1.25 x 60
M931-08070-60	M8-1.25 x 70
M931-08070-82	M8-1.25 x 70*
M931-08075-60	M8-1.25 x 75
M931-08080-60	M8-1.25 x 80
M931-08090-60	M8-1.25 x 90
M931-08095-60	M8-1.25 x 95
M931-08100-60	M8-1.25 x 100
M931-08110-60	M8-1.25 x 110
M931-08120-60	M8-1.25 x 120
M931-08130-60	M8-1.25 x 130
M931-08140-60	M8-1.25 x 140
M931-08150-60	M8-1.25 x 150
M931-08200-60	M8-1.25 x 200
M931-10040-82	M10-1.25 x 40*
M931-10040-60	M10-1.50 x 40
M931-10045-60	M10-1.50 x 45
M931-10050-60	M10-1.50 x 50
M931-10050-82	M10-1.25 x 50*
M931-10055-60	M10-1.50 x 55
M931-10060-60	M10-1.50 x 60
M931-10065-60	M10-1.50 x 65
M931-10070-60	M10-1.50 x 70
M931-10080-60	M10-1.50 x 80
M931-10080-82	M10-1.25 x 80*
M931-10090-60	M10-1.50 x 90
M931-10090-82	M10-1.50 x 90*
M931-10100-60	M10-1.50 x 100
M931-10110-60	M10-1.50 x 110
M931-10120-60	M10-1.50 x 120
M931-10130-60	M10-1.50 x 130
M931-10140-60	M10-1.50 x 140
M931-10180-60	M10-1.50 x 180
M931-10235-60	M10-1.50 x 235
M931-10260-60	M10-1.50 x 260
M960-10330-60	M10-1.25 x 330
M931-12045-60	M12-1.75 x 45
M960-12050-60	M12-1.25 x 50
M960-12050-82	M12-1.25 x 50*
M931-12050-60	M12-1.75 x 50
M931-12050-82	M12-1.75 x 50*
M931-12055-60	M12-1.75 x 55
M931-12060-60	M12-1.75 x 60
M931-12060-82	M12-1.75 x 60*
M931-12065-60	M12-1.75 x 65
M931-12075-60	M12-1.75 x 75
M931-12080-60	M12-1.75 x 80
M931-12090-60	M12-1.75 x 90
M931-12100-60	M12-1.75 x 100
M931-12110-60	M12-1.75 x 110

Part No. Dimensions Hex Head Bolts (Partial Thread), continued

M960-16090-60	M16-1.50 x 90
M931-16090-60	M16-2.00 x 90
M931-16100-60	M16-2.00 x 100
M931-16100-82	M16-2.00 x 100*
M931-16120-60	M16-2.00 x 120
M931-16150-60	M16-2.00 x 150
M931-20065-60	M20-2.50 x 65
M931-20090-60	M20-2.50 x 90
M931-20100-60	M20-2.50 x 100
M931-20120-60	M20-2.50 x 120
M931-20140-60	M20-2.50 x 140
M931-20160-60	M20-2.50 x 160
M931-22090-60	M22-2.50 x 90
M931-22120-60	M22-2.50 x 120
M931-22160-60	M22-2.50 x 160
M931-24090-60	M24-3.00 x 90
M931-24120-60	M24-3.00 x 120
M931-24160-60	M24-3.00 x 160
M931-24200-60	M24-3.00 x 200

Hex Head Bolts (Full Thread)

M933-04006-60	M4-0.70 x 6
M933-05030-60	M5-0.80 x 30
M933-05035-60	M5-0.80 x 35
M933-05050-60	M5-0.80 x 50
M933-06010-60	M6-1.00 x 10
M933-06012-60	M6-1.00 x 12
M933-06014-60	M6-1.00 x 14
M933-06016-60	M6-1.00 x 16
M933-06020-60	M6-1.00 x 20
M933-06025-60	M6-1.00 x 25
M933-06030-60	M6-1.00 x 30
M933-06040-60	M6-1.00 x 40
M933-06050-60	M6-1.00 x 50
M933-07025-60	M7-1.00 x 25
M933-08010-60	M8-1.25 x 10
M933-08012-60	M8-1.25 x 12
M933-08016-60	M8-1.25 x 16
M933-08020-60	M8-1.25 x 20
M933-08025-60	M8-1.25 x 25
M933-08030-60	M8-1.25 x 30
M933-08030-82	M8-1.25 x 30*
M933-10012-60	M10-1.50 x 12
M961-10020-60	M10-1.25 x 20
M933-10020-60	M10-1.50 x 20
M933-10025-60	M10-1.50 x 25
M961-10025-60	M10-1.25 x 25
M933-10025-82	M10-1.50 x 25*
M961-10030-60	M10-1.25 x 30
M933-10030-60	M10-1.50 x 30
M933-10030-82	M10-1.50 x 30*
M961-10035-60	M10-1.25 x 35
M933-10035-60	M10-1.50 x 35
M933-10035-82	M10-1.50 x 35*
M961-10040-60	M10-1.25 x 40

Part No. Dimensions Hex Head Bolts (Full Thread), continued

M933-12016-60	M12-1.75 x 16
M933-12020-60	M12-1.75 x 20
M961-12020-60F	M12-1.50 x 20
M933-12025-60	M12-1.75 x 25
M933-12025-82	M12-1.75 x 25*
M961-12030-60	M12-1.25 x 30
M933-12030-82	M12-1.75 x 30*
M961-12030-82F	M12-1.50 x 30*
M933-12030-60	M12-1.75 x 30
M933-12035-60	M12-1.75 x 35
M961-12040-82	M12-1.25 x 40*
M933-12040-60	M12-1.75 x 40
M933-12040-82	M12-1.75 x 40*
M961-14025-60	M14-1.50 x 25
M933-14025-60	M14-2.00 x 25
M961-14050-82	M14-1.50 x 50*
M961-16025-60	M16-1.50 x 25
M933-16025-60	M16-2.00 x 25
M961-16030-82	M16-1.50 x 30*
M933-16030-82	M16-2.00 x 30*
M933-16035-60	M16-2.00 x 35
M961-16040-60	M16-1.50 x 40
M933-16040-60	M16-2.00 x 40
M961-16045-82	M16-1.50 x 45*
M933-16045-82	M16-2.00 x 45*
M933-16050-60	M16-2.00 x 50
M933-16050-82	M16-2.00 x 50*
M933-16060-60	M16-2.00 x 60
M933-16070-60	M16-2.00 x 70
M933-18035-60	M18-2.50 x 35
M933-18050-60	M18-2.50 x 50
M933-18060-60	M18-2.50 x 60
M933-20050-60	M20-2.50 x 50
M933-20055-60	M20-2.50 x 55
M933-24060-60	M24-3.00 x 60
M933-24065-60	M24-3.00 x 65
M933-24070-60	M24-3.00 x 70

Pan Head Machine Screws

M7985A-03010-20	M3-0.50 x 10
M7985A-03012-20	M3-0.50 x 12
M7985A-04010-20	M4-0.70 x 10
M7985A-04016-20	M4-0.70 x 16
M7985A-04020-20	M4-0.70 x 20
M7985A-04050-20	M4-0.70 x 50
M7985A-04100-20	M4-0.70 x 100
M7985A-05010-20	M5-0.80 x 10
M7985A-05012-20	M5-0.80 x 12
M7985A-05016-20	M5-0.80 x 16
M7985A-05020-20	M5-0.80 x 20
M7985A-05025-20	M5-0.80 x 25
M7985A-05030-20	M5-0.80 x 30
M7985A-05080-20	M5-0.80 x 80
M7985A-05100-20	M5-0.80 x 100
M7985A-06100-20	M6-1.00 x 100

Flat Head Machine Screws

M965A-04012-SS	M4-0.70 x 12
M965A-05012-SS	M5-0.80 x 12
M965A-05016-20	M5-0.80 x 16
M965A-06012-20	M6-1.00 x 12

* This metric hex bolt's hardness is grade 10.9.

Metric, continued

Part No.	Dimensions	Type
Hex Nuts		
M934-03-50	M3-0.50	Standard
M934-04-50	M4-0.70	Standard
M934-04-B	M4-0.70	Brass
M934-05-50	M5-0.80	Standard
M934-06-60	M6-1.00	Standard
M934-06-64	M6-1.00	Std. (green)
M6923-06-80	M6-1.00	Spiralock
M982-06-80	M6-1.00	Elastic Stop
M934-08-60	M8-1.25	Standard
M6923-08-80	M8-1.25	Spiralock
M982-08-80	M8-1.25	Elastic Stop
M934-10-60	M10-1.50	Standard
M934-10-60F	M10-1.25	Standard
M6923-10-80	M10-1.50	Spiralock
M6923-10-62	M10-1.50	Spiralock†
M982-10-80	M10-1.50	Elastic Stop
M934-12-60	M12-1.75	Standard
M934-12-60F	M12-1.25	Standard
M6923-12-80	M12-1.75	Spiralock
M982-12-80	M12-1.75	Elastic Stop
M982-14-60	M14-2.00	Elastic Stop
M6923-16-80	M16-2.00	Spiralock
M982-16-80	M16-2.00	Elastic Stop
M934-18-80	M18-2.5	Standard
M982-18-60	M18-2.50	Elastic Stop
M934-20-80	M20-2.50	Standard
M982-20-80	M20-2.50	Elastic Stop
M934-22-60	M22-2.50	Standard
M934-24-80	M24-3.00	Standard
M982-24-60	M24-3.00	Elastic Stop
M934-30-80	M30-3.50	Standard

Washers

Part No.	ID	OD	Thick.	Bolt/ Screw
M125A-03-80	3.2	7.0	0.5	M3
M125A-04-80	4.3	9.0	0.8	M4
M125A-05-80	5.3	10.0	1.0	M5
M125A-06-80	6.4	12.0	1.6	M6
M125A-08-80	8.4	16.0	1.6	M8
M125A-10-80	10.5	20.0	2.0	M10
M125A-12-80	13.0	24.0	2.5	M12
M125A-14-80	15.0	28.0	2.5	M14
M125A-16-80	17.0	30.0	3.0	M16
M125A-18-80	19.0	34.0	3.0	M18
M125A-20-80	21.0	37.0	3.0	M20
M125A-24-80	25.0	44.0	4.0	M24

† This metric hex nut's hardness is grade 8.

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