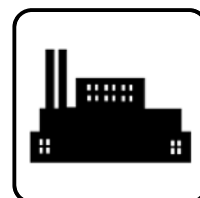


Service Parts

Industrial Generator Sets



Models:

600-2000ROZM

600-2000REOZM

750-2000ROZMC

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)			
	600ROZM	900/1000ROZM, 50Hz	900/1000ROZM, 60Hz	2000ROZM
Oil Filter	GM38852 (2)	GM13942 (4)	GM13942 (4)	GM38852 (4)
Oil Filter (bypass)	GM13950 (1)	GM13943 (1)	GM13943 (1)	GM13950 (1)
Fuel Filter	GM13951 (2)	GM13947 (4)	GM13947 (4)	GM13952 (4)
Tip assembly, nozzle	GM13952 (6)	GM13946 (12)	GM13946 (12)	GM21733 (16)
Thermostat	GM13953 (2)	GM13944 (4)	GM13944 (4)	GM31390 (4)
Thermostat Gasket	GM15765 (1)	GM13945 (2)	GM13945 (2)	GM21727 (2)
V-Belt	GM15752 (1)	GM14525 (set of 4)	GM14526 (set of 4)	GM21122 (1)
V-Belt (alternator)	GM15753 (1)	GM13948 (1)	GM13948 (1)	GM21917 (1)

Description	Part Number (Quantity per Engine)					
	600 REOZM	750/800 REOZM ROZMC	900/1000 REOZM ROZMC	1250 REOZM ROZMC	1600 REOZM ROZMC	1820/2000 REOZM ROZMC
Oil Filter	GM38852 (2)	GM32057 (4)	GM13942 (4)	GM38852 (4)	GM38852 (4)	GM38852 (4)
Oil Filter (bypass)	GM13950 (1)	GM13950 (1)	GM13943 (1)	GM13950 (1)	GM13950 (1)	GM13950 (1)
Fuel Filter	GM21663 (2)	GM13951 (2)	GM13947 (4)	GM13947 (4)	GM13947 (4)	GM21663 (4)
Tip assembly, nozzle	GM31436 (6)	GM35977 (12)	GM34298 (12)	GM37140 (12)	GM37258 (16)	GM31693 (16)
Thermostat	GM31390 (2)	GM13944 (4)	GM13944 (4)	GM31390 (4)	GM31390 (4)	GM31390 (4)
Thermostat Gasket	GM31391 (1)	GM13945 (2)	GM13945 (2)	GM31391 (2)	GM31391 (2)	GM31391 (2)
V-Belt	GM31383 (1)	GM35975 (1) GM36598 (1)	GM14526 (set of 4)	GM19614 (60hz) 361563 (50Hz)	GM19614 (60hz) 361563 (50Hz)	GM21122 (1)
V-Belt (alternator)	GM31384 (1)	GM36962 (1)	GM13948 (1)	GM21917 (1)	GM21917 (1)	GM21917 (1)

Figure 1 Routine Engine Service Parts

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Introduction

This manual lists service replacement parts for generator set models as listed on the front cover.

Information in this publication represents data available at the time of print. Kohler Co. reserves the right to change this publication and the products represented without notice and without any obligation or liability whatsoever.

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. Specification 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							

600ROZM								
GM13277-GA1	*	*	1	GR1	*	*	†	156
GM16981-GA1	*	*	2	GR1	*	*	†	156
900ROZM								
PA-111001	*	*	3	GR2	*	*	†	149
PA-111002	*	*	4	GR2	*	*	†	149
GM16982-GA1	*	*	5	GR2	*	*	†	149
GM16982-GA2	*	*	6	GR2	*	*	†	149
1000ROZM								
PA-111003	*	*	4	GR2	*	*	†	147
PA-111004	*	*	3	GR2	*	*	†	147
GM16983-GA1	*	*	5	GR2	*	*	†	149
GM16983-GA2	*	*	6	GR2	*	*	†	149
2000ROZM								
GM16647-GA1	*	*	7	GR2	*	*	†	161
GM16647-GA2	*	*	8	GR2	*	*	†	161

- * 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 TP-6009 P/C Controllers 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							

600REOZM								
GM30612-GA1	*	*	9	GR1	*	*	†	196
GM30612-GA2	*	*	22	GR1	*	*	†	196
750REOZM								
GM31728-GA1	*	*	13	GR1	*	*	†	202
GM31728-GA2	*	*	14	GR1	*	*	†	202
800REOZM								
GM31728-GA3	*	*	15	GR1	*	*	†	203
GM31728-GA4	*	*	16	GR1	*	*	†	203
900REOZM								
GM31223-GA1	*	*	11	GR2	*	*	†	197
GM31223-GA2	*	*	12	GR2	*	*	†	198
1000REOZM								
GM31223-GA3	*	*	11	GR2	*	*	†	197
GM31223-GA4	*	*	12	GR2	*	*	†	198
1250REOZM								
GM19661-GA3	*	*	20	GR2	*	*	†	204
GM19661-GA4	*	*	21	GR2	*	*	†	204
1600REOZM								
GM19661-GA1	*	*	17	GR2	*	*	†	169
GM19661-GA2	*	*	18	GR2	*	*	†	169
1820REOZM								
GM30949-GA3	*	*	10	GR2	*	*	†	205
GM30949-GA4	*	*	19	GR2	*	*	†	205
2000REOZM								
GM30949-GA1	*	*	10	GR2	*	*	†	195
GM30949-GA2	*	*	19	GR2	*	*	†	195

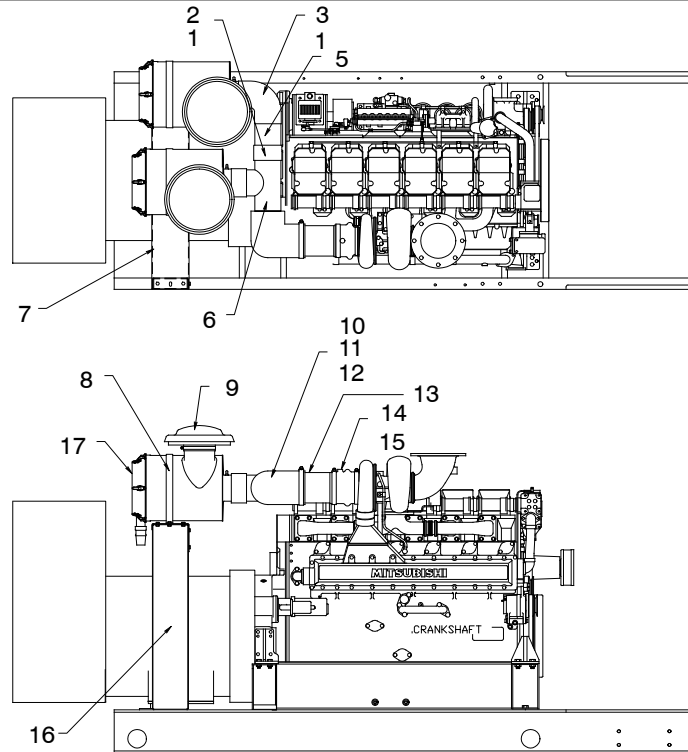
Specification Number Index

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							

750ROZMC								
GM81540-GA1	*	*	13	3	*	*	†	292
GM81540-GA2	*	*	14	3	*	*	†	292
800ROZMC								
GM81540-GA3	*	*	15	3	*	*	†	293
GM81540-GA4	*	*	16	3	*	*	†	293
900ROZMC								
GM81540-GA5	*	*	11	3	*	*	†	294
GM81540-GA6	*	*	12	3	*	*	†	294
1000ROZMC								
GM81540-GA7	*	*	11	3	*	*	†	295
GM81540-GA8	*	*	12	3	*	*	†	295
1250ROZMC								
GM80624-GA1	*	*	20	3	*	*	†	283
GM80624-GA2	*	*	21	3	*	*	†	283
1600ROZMC								
GM80624-GA3	*	*	17	3	*	*	†	284
GM80624-GA4	*	*	18	3	*	*	†	284
1820ROZMC								
GM80624-GA5	*	*	10	3	*	*	†	285
GM80624-GA6	*	*	19	3	*	*	†	285
2000ROZMC								
GM80624-GA7	*	*	10	3	*	*	†	286
GM80624-GA8	*	*	19	3	*	*	†	286

Group 101: Air Intake

600 kW

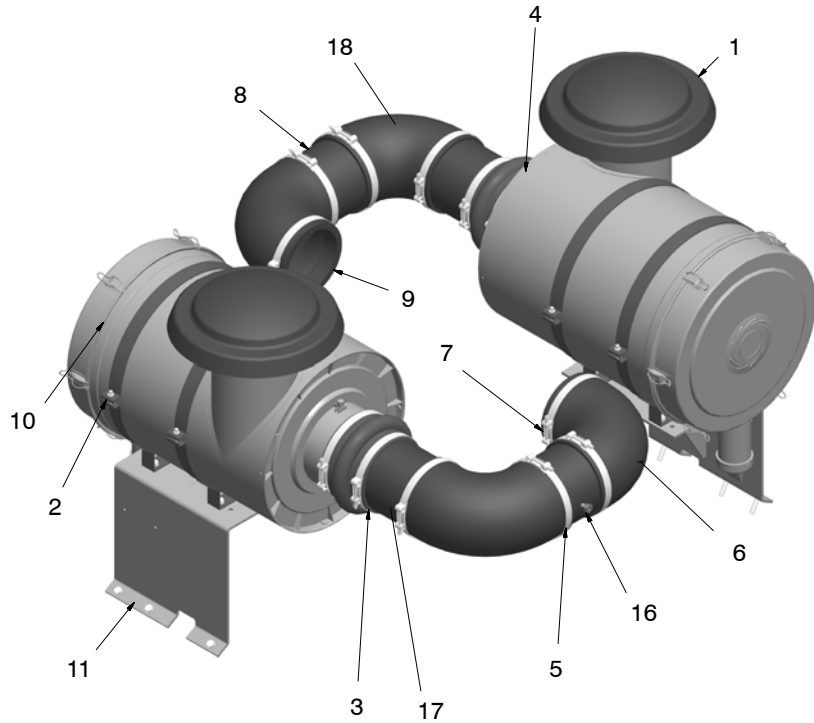


GM69936

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

750-1000 kW



GM69937

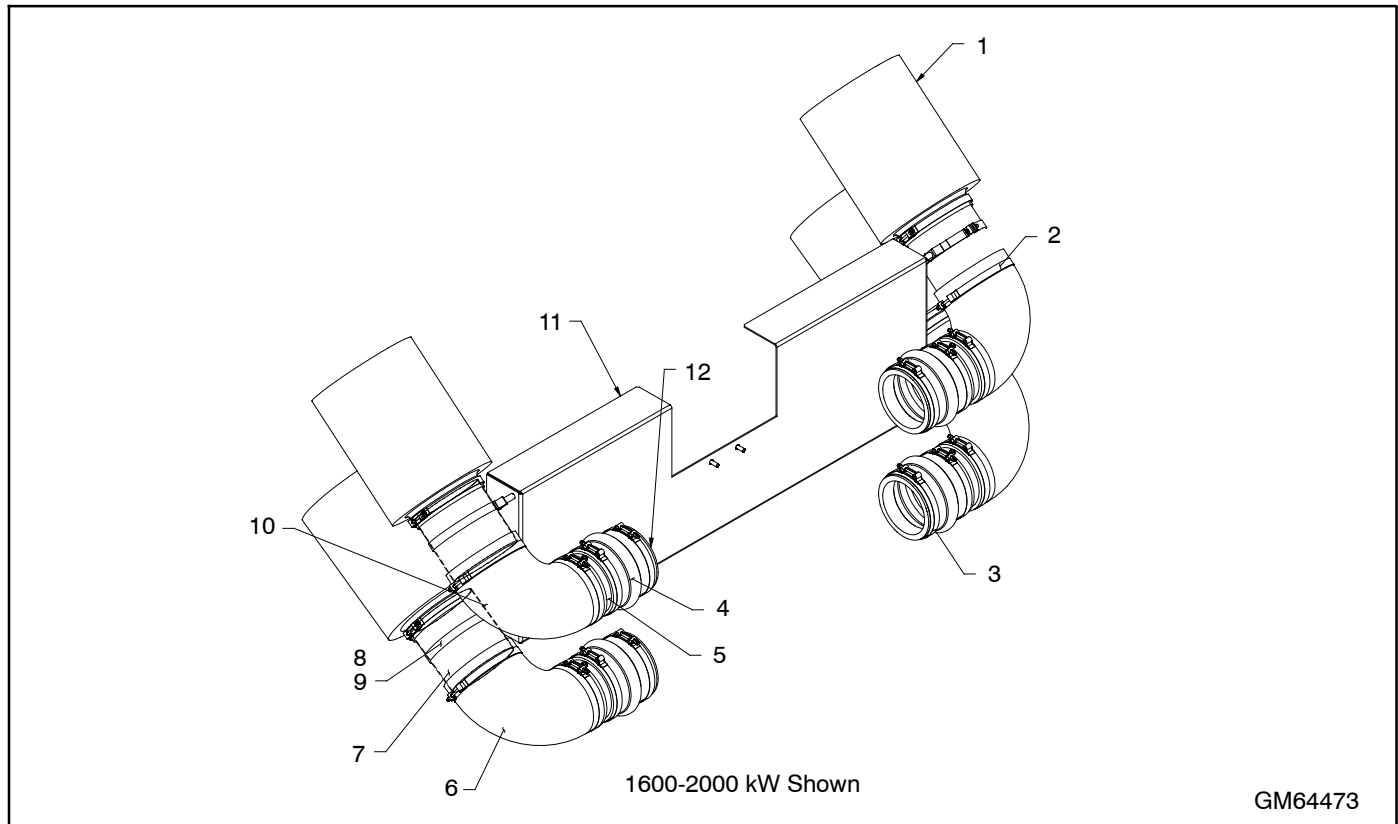
Item	Part Number	Description	Quantity			
			Module Number			
			GM69937-MA1	GM69937-MA2	GM69938-MA1	GM69938-MA2
1	272675	Cap, rain	2		2	2
2	279715	Mount, Air Cleaner/Exhaust (18.00" id)	4	4	4	4
3	279720	Hose, hump reducer (8.00 to 7.00" id)	2	2	2	2
4	279743	Clamp, hose, 8.38/8.69 in.	2	2		
5	280998	Clamp, 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.

Kit No.	Color Dependent Parts	
	Part Number Suffix	Part Number Example (item 11)
GM69938-MA1-BLK	-BLK	GM39406-BLK
GM69938-MA1-BLK	-BLK	GM39395-BLK
GM69937-MA2-BLK	-BLK	GM79188-BLK

Group 101: Air Intake, continued

1250-2000 kW

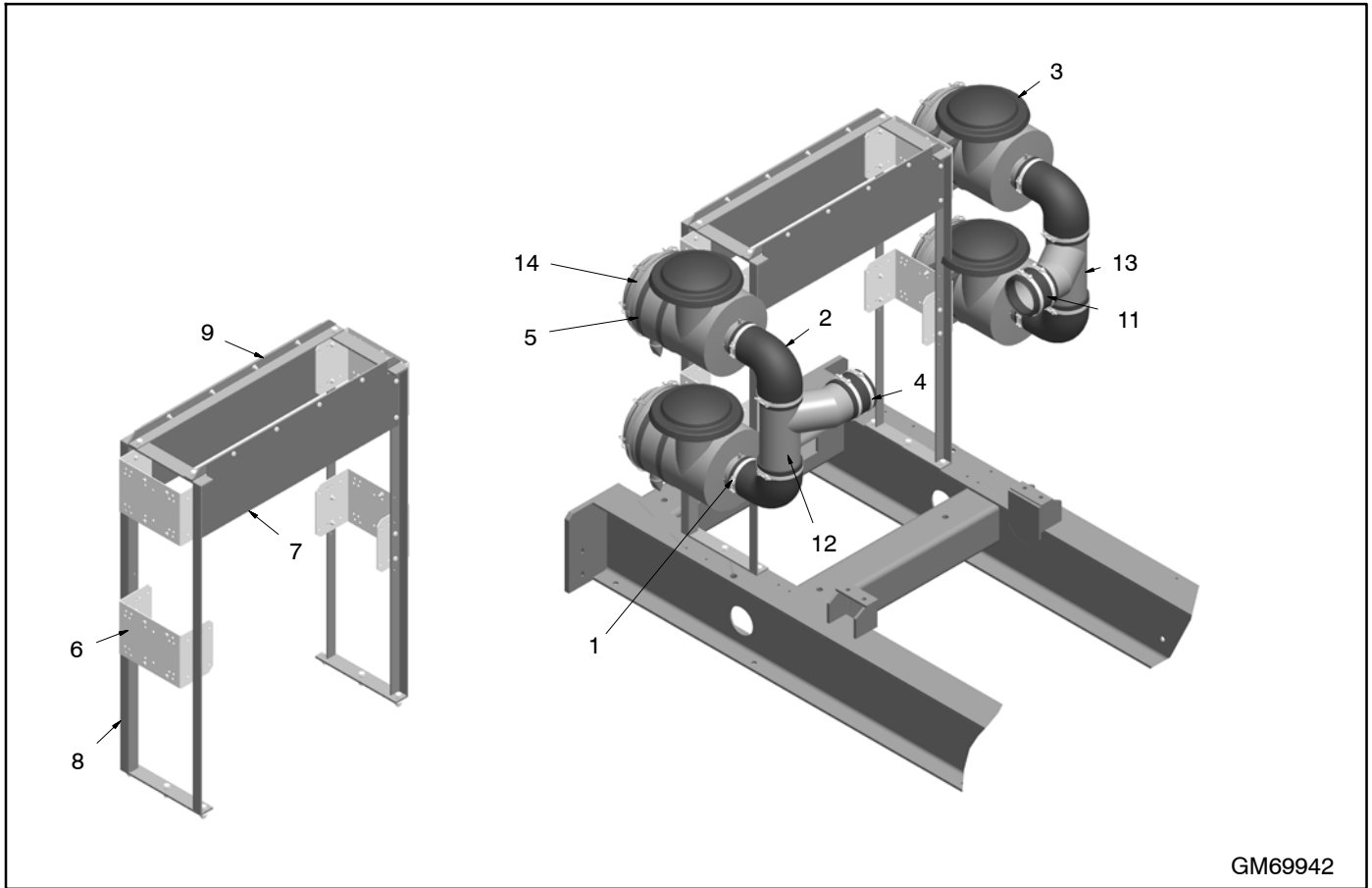


GM64473

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

1250 kW, Heavy Duty



GM69942

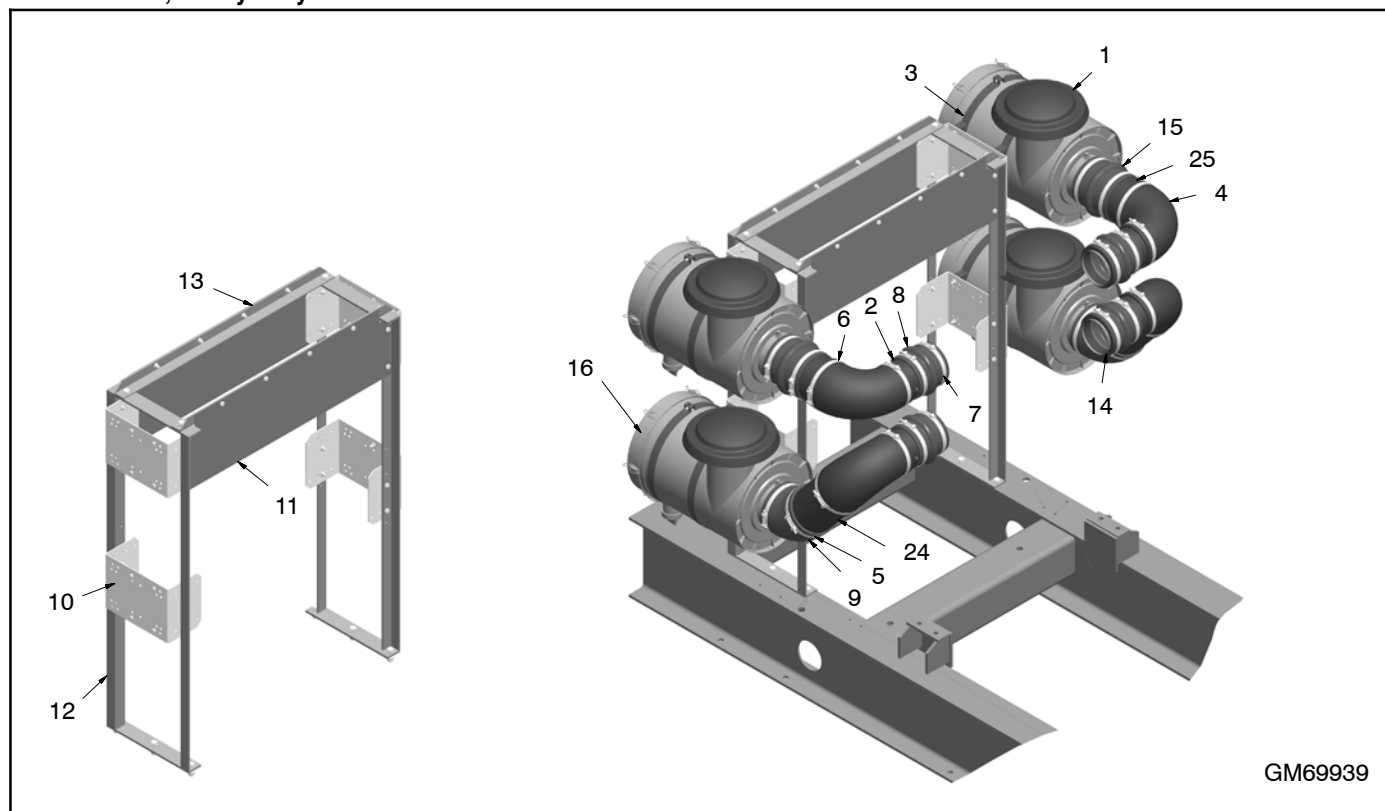
Item	Part Number	Description	Quantity
			Module
			GM69942-MA1
1	254013	Clamp, hose, 6.25/6.56 in.	4
2	272663	Hose, 90 deg. reducer (7.00 - 6.00" id)	4
3	272674	Cap, rain	4
4	280998	Clamp, hose, 7.5/7.81 in.	8
5	291501	Mount, Air Cleaner/Exhaust (15.00" id)	8
6	GM16693**	Bracket, Air Cleaner	4
7	GM16694**	Plate, Air Cleaner Support	2
8	GM16709**	Support, Air Cleaner	2
9	GM16712**	Support, Air Cleaner (Top)	2
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.

Kit No.	Color Dependent Parts	
	Part Number Suffix	Part Number Example (item 6)
GM69942-MA1-BLK	-BLK	GM16693-BLK

Group 101: Air Intake, continued

1600-2000 kW, Heavy Duty



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

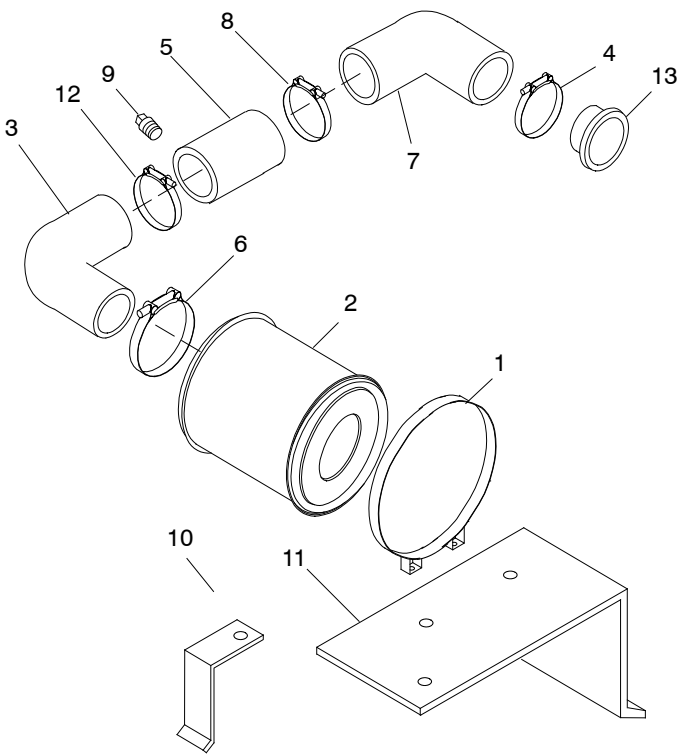
** Use the Kit number and chart below to identify the color suffix.
Add a suffix to this color dependent part number before ordering.

Kit No.	Color Dependent Parts	
	Part Number Suffix	Part Number Example (item 10)
GM69939-MA1-BLK	-BLK	GM16693-BLK

Notes

Group 101: Air Intake, continued

600-1000 kW



GM10568

Group 101: Air Intake, continued

600-1000 kW

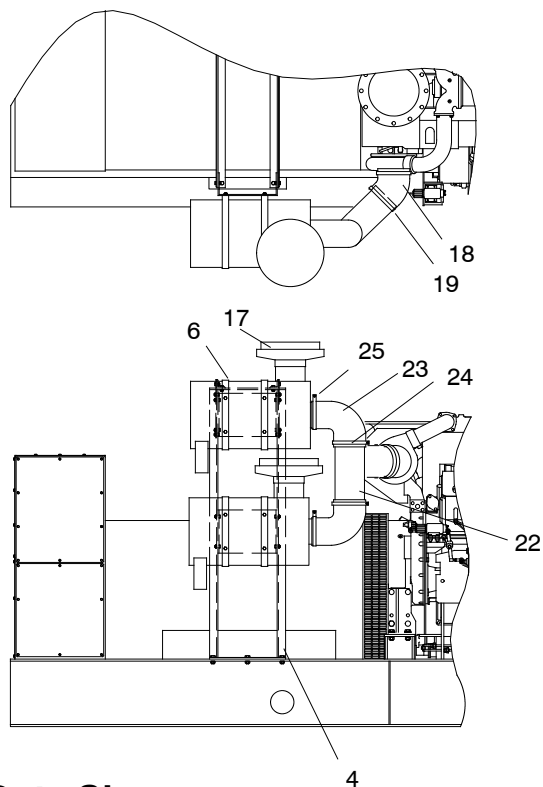
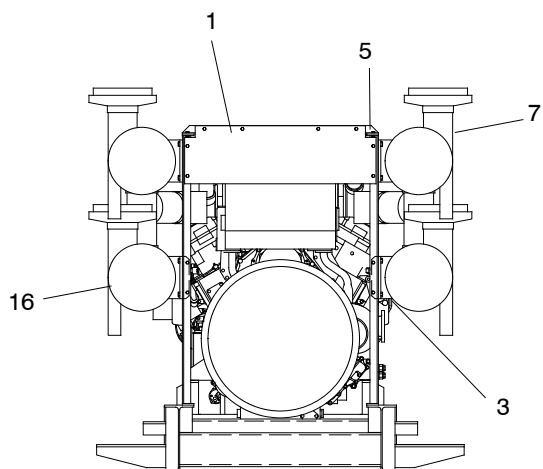
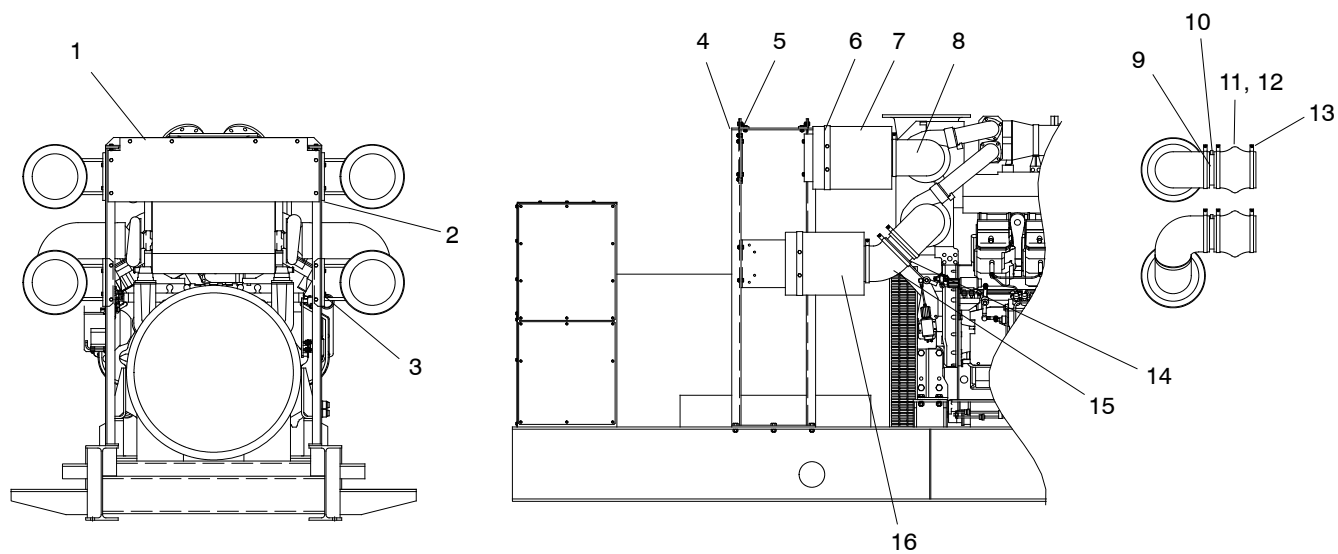
Item	Part Number	Description	Quantity												
			Module												
			GM10568-MA1	GM10655-MA1	GM12004-MA1	GM12052-MA1	GM23329-MA1	GM23330-MA1	GM30609-MA1	GM30610-MA1	GM31227-MA1	GM31734-MA1	GM31735-MA1	GM39625-MA1	GM39414-MA1
1	272983	Clamp	2		1		2		1		2	2			
1	279715	Mount, air cleaner		4		2		4		2			4	4	4
2	354842	Air cleaner, industrial			1				1						
2	272981	Air cleaner, industrial	2				2				2	2			
2	A-361366	Air cleaner		2				2					2		
2	279738	Element, air cleaner (heavy-duty air cleaner)		2				2					2		
2	A-279714	Air cleaner				1				1				2	2
2	279738	Element, air cleaner (heavy-duty air cleaner)		2		1				1				2	2
2	279739	Element, air cleaner (inner)		2		1				1				2	2
2	279722	Cap, rain (not shown)		2		1		2		1			2	2	2
3	272663	Hose, elbow, 90°, molded, 7 in. ID	2	2			2	2			2	2			2
3	279716	Hose, elbow, 90°, 8 x 7 in. ID				1				1			2	2	
3	X-522-95	Tube, steel, 177.8 OD x 165 long (not shown)		2				2							2
3	279720	Hose, hump, straight, 7 in. ID (not shown)		2				2							2
3	361847	Hose, hump (not shown)			1										
3	279743	Clamp, hose, 8.38/8.69 in. (not shown)		2				2							2
3	GM16083	Hose, hump, 7 in. ID (not shown)							1	1					
3	343587	Clamp, hose, 7.38/7.69 in. (not shown)		2	1			2	2	2					2
4	272960	Clamp, hose, 6.56/6.87 in.	2	2	1	1						2			
4	280998	Clamp, hose, 7.5/7.81 in.					2	2			2		2	2	2
5	361278	Tube assembly	2				2				2				
5	GM10757	Tube assembly		2				2							2
5	279754	Tube assembly										2			
5	X-522-96	Tube, steel				1				1					
5	354236	Tube, air restriction, 7 in. OD x 7.5 in.											2	2	
6	280998	Clamp, hose, 7.5/7.81 in.	2	2			2	2			2				2
6	279482	Clamp, hose, 7.69/8 in.										2			
6	279717	Clamp, hose, 8.63/8.94 in.				1				1			2	2	
7	272627	Fitting, elbow, 90°	2	2											
7	GM23198	Hose, 90 deg. reducer (7 to 6 in.)					2	2			2	2			2
7	361847	Hose, hump				1									
7	291678	Hose, 90 deg. elbow (7.00 in. ID)											2	2	
8	254013	Clamp, hose, 6.25/6.56 in.	2	2			2	2							2
8	343587	Clamp, hose, 7.38/7.69 in.				1									
8	279482	Clamp, hose, 7.69/8 in.										2			
8	280998	Clamp, hose, 7.5/7.81 in.											2	2	
9	X-268-7	Cap, pipe	2	2			2	2			2	2	2	2	2
10	GM10519**	Bracket, air cleaner	2				2				2				
10	GM10651	Bracket, air cleaner, heavy-duty (not shown)		2				2							
10	GM10652	Bracket, air cleaner, heavy-duty		2				2							
10	GM39406	Bracket, air cleaner													2
11	GM10518	Bracket, air cleaner	2				2				2	2			
11	GM33099**	Plate, air cleaner									2	2			
11	GM11699**	Plate, air cleaner					2				2				
11	GM11994	Bracket, air cleaner			1				1						
11	GM10654	Bracket, air cleaner, heavy-duty (not shown)		2				2							2
11	GM10653	Bracket, air cleaner, heavy-duty		2				2							
11	GM12034	Bracket, air cleaner, heavy-duty				1				1					
11	GM33097	Bracket, air cleaner, heavy-duty (not shown)											2		
11	GM39649	Bracket, air cleaner, heavy-duty (not shown)												2	
11	GM39395	Bracket, air cleaner (not shown)													2
12	272960	Clamp, hose, 6.56/6.87 in.	2	2			2	2			4				2
12	280998	Clamp, hose, 6.7/7.81 in.				1				1					
12	279482	Clamp, hose, 7.69/8 in.											2	2	
13	GM16748	Insert, reducer (7 to 6.25 in.)					2	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.

Kit No.	Color Dependent Parts	
	Part Number Suffix	Part Number Example (item 11)
GM31227-MA1-BLK	-BLK	GM11699-BLK
GM31734-MA1-BLK	-BLK	GM33099-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	GM16761-MA1	GM32743-MA1	GM32744-MA1	GM40747-MA1	GM40748-MA1	GM39472-MA1
1	GM16694	Plate, air cleaner support	2	2	2	2	2	2	2
2	GM18403	Bracket, air cleaner	2						
3	GM16693	Bracket, air cleaner	2	2	4	4	4	4	4
4	GM16709	Support, air cleaner	2	2	2	2	2	2	2
5	GM16712	Support, air cleaner, top	2	2	2	2	2	2	2
6	272983	Clamp, air cleaner	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	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		
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						
9	274623	Tube assembly		4					2
9	279754	Tube assembly							2
9	GM40732	Tube, intake					2		
10	X-75-1	Plug, pipe, 1/8 in. NPT	4						
10	X-268-1	Cap, pipe, 1/8 in. NPT		4					4
11	291679	Hose, hump, 7 in. ID	4						
11	279744	Hose, hump, 7 in. to 6 in. ID		4					4
11	GM40731	Hose, straight air (7" ID)					2		
12	GM16748	Insert, hose insert	4	4			2	2	4
13	280998	Clamp, hose, 7.5/7.81 in.	20	4			12		4
13	254013	Clamp, hose, 6.25/6.56 in.		20					20
14	X-522-66	Tube, steel	2						
14	X-522-86	Tube, steel, 6 in. OD x 12 in.		2					2
15	347958	Hose, elbow, molded, 7 in. ID	2						
15	347806	Hose, elbow, molded, 6 in. ID		2					2
16	272981	Air cleaner, industrial	2		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	

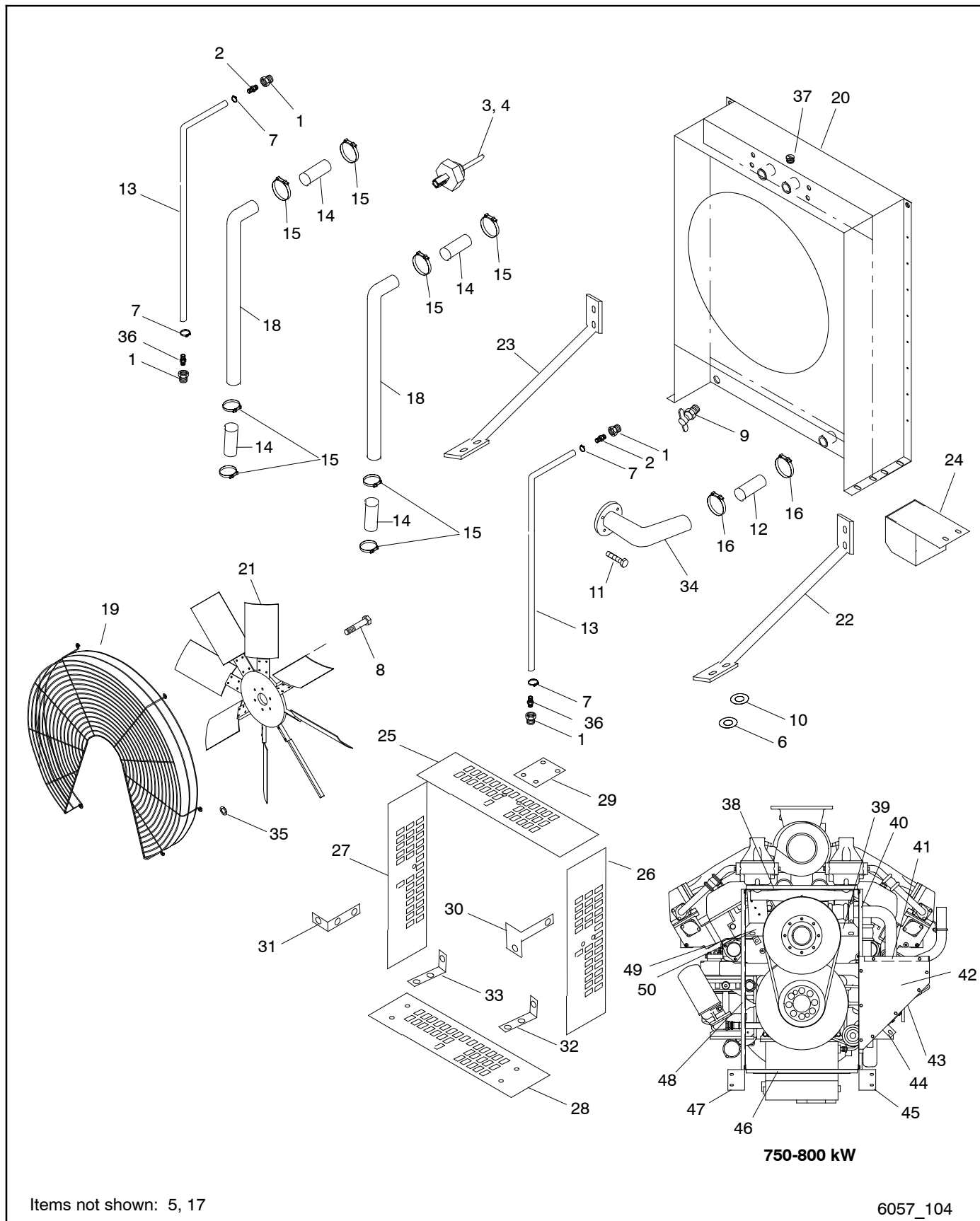
Note: A-279713 air cleaner assembly is no longer available. Replace with kit GM75957-S (1250 kW) or GM75958-S (1600/2000 kW).

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 104: Cooling System

600-1000 kW



Group 104: Cooling System

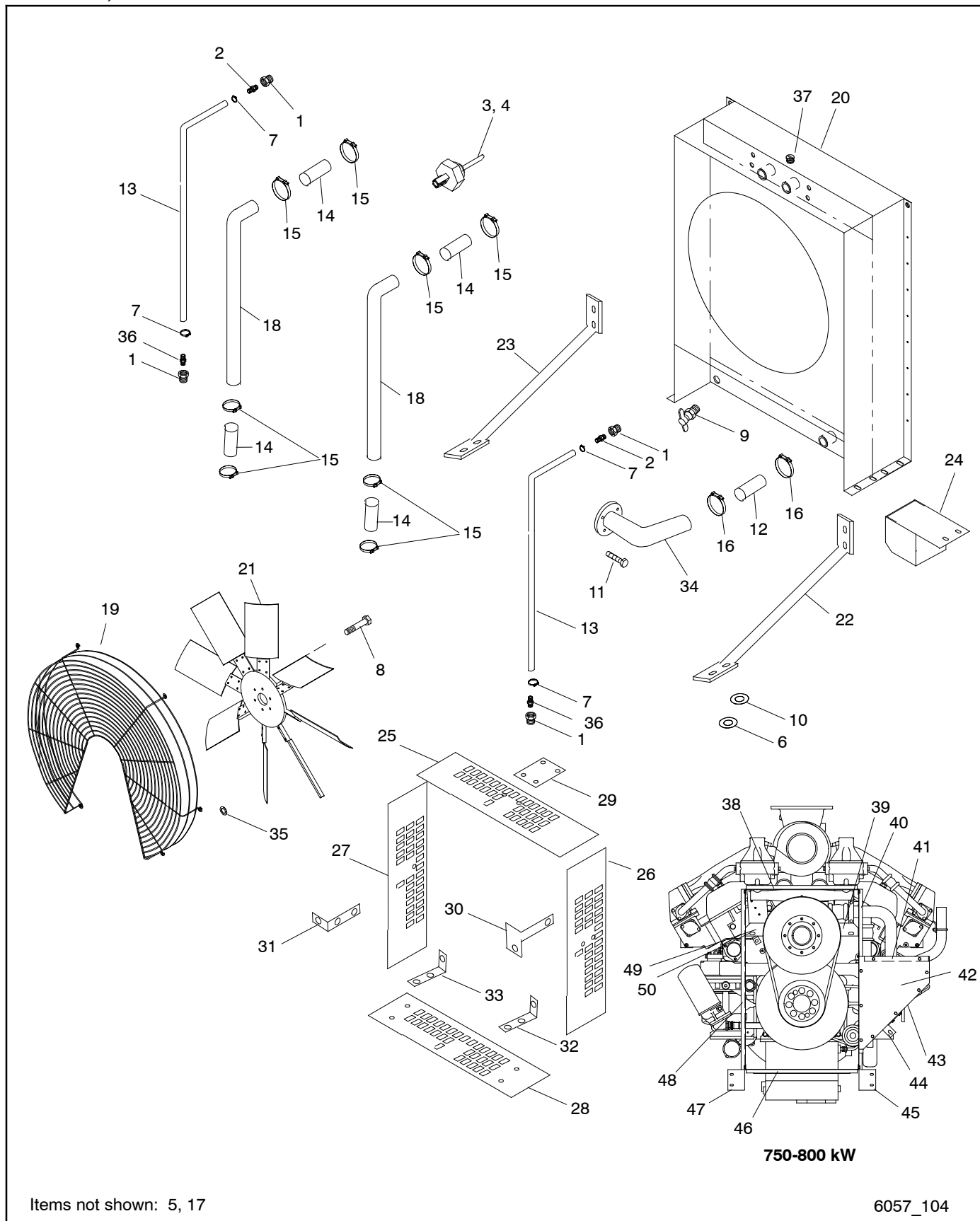
600-1000 kW

Item	Part Number	Description	Quantity						
			Module						
			GM12013-MA1	GM71421-MA1	GM10569-MA1	GM31225-MA1	GM81188-MA1	GM31731-MA1	GM81542-MA1
1	X-202-30	Bushing, reducing, 1/4 x 3/8 in. NPT			4	4	4	2	2
2	X-652-3	Connector, hose		2	2	2	2	2	2
2	X-751-1	Connector, hose + Vibra Seal		1					
3	365289	Sensor, low fluid	1	1	1	1		1	
4	X-6003-120	Conduit, convoluted	1	1	1	1		1	
5	X-468-7	Cable tie			6	6	6	6	6
6	X-801-9	Washer, hardened, .688 ID x 1.373 in.	8	8	8	32	32	24	24
7	X-426-9	Clamp, hose, .25/.70 in., GM-NRP			4	4	4	4	4
7	X-426-18	Clamp, hose, .38/.88 in.		2					
7	X-426-20	Clamp, hose, .63/1.5 in.		2					
8	M961-12040-82	Screw, HC			8	8	8		
8	M961-12050-82	Screw, HC						6	6
8	290945	Washer, hardened, .531 IDx1.06 in.OD				8	8	6	6
9	278788	Valve, drain (3/8"nptf)	1	1	1	1	1	1	1
9	X-202-28	Bushing, reducing (3/8 x 1/2"npt)	1	1	1	1	1	1	1
10	X-6011-3	Washer, beveled, .68 ID x 1.5 in. OD	4	4	4	4	4	4	4
11	M961-16040-60	Screw, hex cap			4	4	4		
12	X-6014-92	Hose, radiator, straight, 4 in. ID			1	1	1		
12	X-6014-89	Hose, radiator, straight, 3.5 in. ID			2	2	2	1	1
13	X-6359-9	Hose, rubber, straight, .25 in. ID						2	2
13	X-6359-7	Hose, rubber, straight, .25 in. ID		1					
13	X-6014-12	Hose, Radiator Wire Inset 1.00 ID		1					
14	X-507-7	Hose, radiator, straight, 3 in. ID			4	4	4	4	4
15	275527	Clamp, hose, 2.81/3.12 in.	1	1					
15	291542	Clamp, hose, 3.25/3.56 in.	1	1	8	8	8	8	8
16	291537	Clamp, hose, 3.75/4.06 in.	2	2					
16	274545	Clamp, hose, 4.31/4.62 in.			2	2	2		
16	274824	Clamp, hose, 3.68/4 in.						2	2
17	225127	Bushing, adapter, 3/8-18 x M16 x 1.5 in.			2	2	2	2	2
18	GM11965	Hose, upper radiator	1	1					
18	GM11962	Flange, water connection outlet	1	1					
18	M961-10030-60	Screw, hex cap	4	4					
18	GM10396	Tube, upper radiator			2	2	2		
18	GM31921	Tube, upper radiator						2	2
19	GM10379	Guard, wire fan			1	1	1		
20	GM11938	Radiator assembly (Service with Kit GM84712-S)	1						
20	GM64480	Radiator assembly		1					
20	GM10376	Radiator assembly			1	1	1		
20	GM31951	Radiator assembly						1	1
21	GM11890	Fan, pusher	1	1					
21	GM10378	Fan, pusher			1	1	1		
21	299892	Fan, pusher						1	1
21	GM32444	Spacer, fan						1	1
22	354532	Support, radiator, RS	1	1					
22	GM10384	Support, radiator, RS			1	1	1		
22	GM30351	Support, radiator, RS						1	1
23	354533	Support, radiator, LS	1	1					
23	GM10385	Support, radiator, LS			1	1	1		
23	GM30352	Support, radiator, LS						1	1
24	GM11966	Support, radiator	2	2					
24	GM10383	Support, radiator			4	4	4		
24	GM31887	Support, radiator						2	2
25	GM12347	Guard, belt, top	1						
25	GM71419	Guard, belt, top		1					
25	GM10539	Guard, belt, top			1	1	1		
26	GM12350	Guard, belt, RS	1						
26	GM65338	Guard, belt, RS		1					
26	GM10540	Guard, belt, RS			1	1	1		
27	GM12348	Guard, belt, LS	1						
27	GM65337	Guard, belt, LS		1					
27	GM10541	Guard, belt, LS			1	1	1		

Parts list continues on next page.

Group 104: Cooling System, continued

600-1000 kW, continued



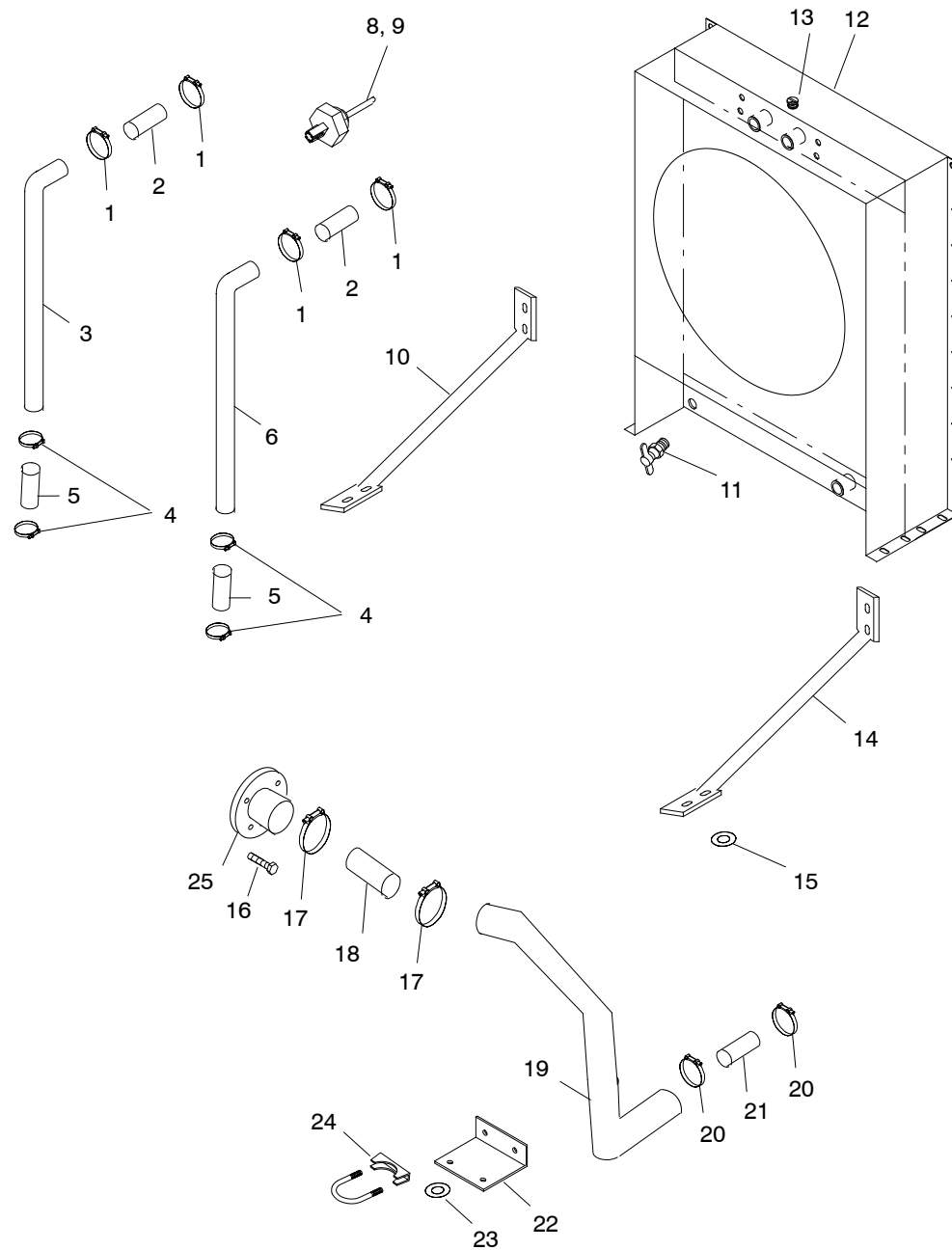
Group 104: Cooling System, continued

600-1000 kW

Item	Part Number	Description	Quantity Module						
			GM12013-MA1	GM71421-MA1	GM10569-MA1	GM31225-MA1	GM81188-MA1	GM31731-MA1	GM81542-MA1
28	GM12349	Guard, belt, bottom	1						
28	GM71420	Guard, belt, bottom		1					
28	GM10542	Guard, belt, bottom			1	1	1		
29	GM12352	Bracket, belt guard mounting	1	1					
29	GM10543	Bracket, belt guard mounting			1	1	1		
30	GM12351	Bracket, belt guard mounting	1	1					
30	GM12355	Bracket, belt guard mounting	1	1					
30	GM10544	Bracket, belt guard mounting			1	1	1		
31	GM12353	Bracket, belt guard mounting	1	1					
31	GM10545	Bracket, belt guard mounting			1	1	1		
32	GM10546	Bracket, belt guard mounting			1	1	1		
32	GM12354	Bracket, belt guard mounting	2	2					
33	GM10547	Bracket, belt guard mounting			1	1	1		
34	GM13749	Flange, water connection inlet	1						
34	GM71418	Flange, water connection inlet		1					
34	M961-12030-60	Screw, hex cap	3	3					
34	GM11964	Hose, lower radiator	1	1					
34	GM10382	Tube, lower radiator			1	1	1		
34	GM31922	Tube, lower radiator						1	1
35	X-25-75	Washer, plain, .344 ID x .875 in. OD			12	12	12	12	
36	X-391-20	Connector, 90 deg., 1/4 in. ID hose			2	2	2	2	2
37	GM16641	Cap, radiator	1						
37	GM23500	Cap, radiator			1	1	1	1	1
38	GM31977	Guard, belt, top						1	1
38	GM49055	Guard, belt				1	1		
39	GM31983	Bracket, guard, LS						1	1
40	GM31978	Guard, belt, LS						1	1
41	GM31985	Guard, belt (alternator)						1	1
42	GM31986	Guard, belt (alternator)						1	1
43	GM31987	Guard, belt (alternator)						1	1
44	GM32108	Bracket, guard, belt (alternator)						1	1
45	GM31984	Bracket, guard LS						1	1
46	GM31980	Guard, belt, bottom						1	1
47	GM31982	Bracket, guard RS						1	1
48	GM31979	Guard, belt, RS						1	1
49	GM31981	Bracket, guard, RS						1	1
50	X-400-230	Spacer, 0531 ID x 1 OD x 1 in.						1	1

Group 104: Cooling System, continued

1250/1600 kW



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Group 104: Cooling System, continued

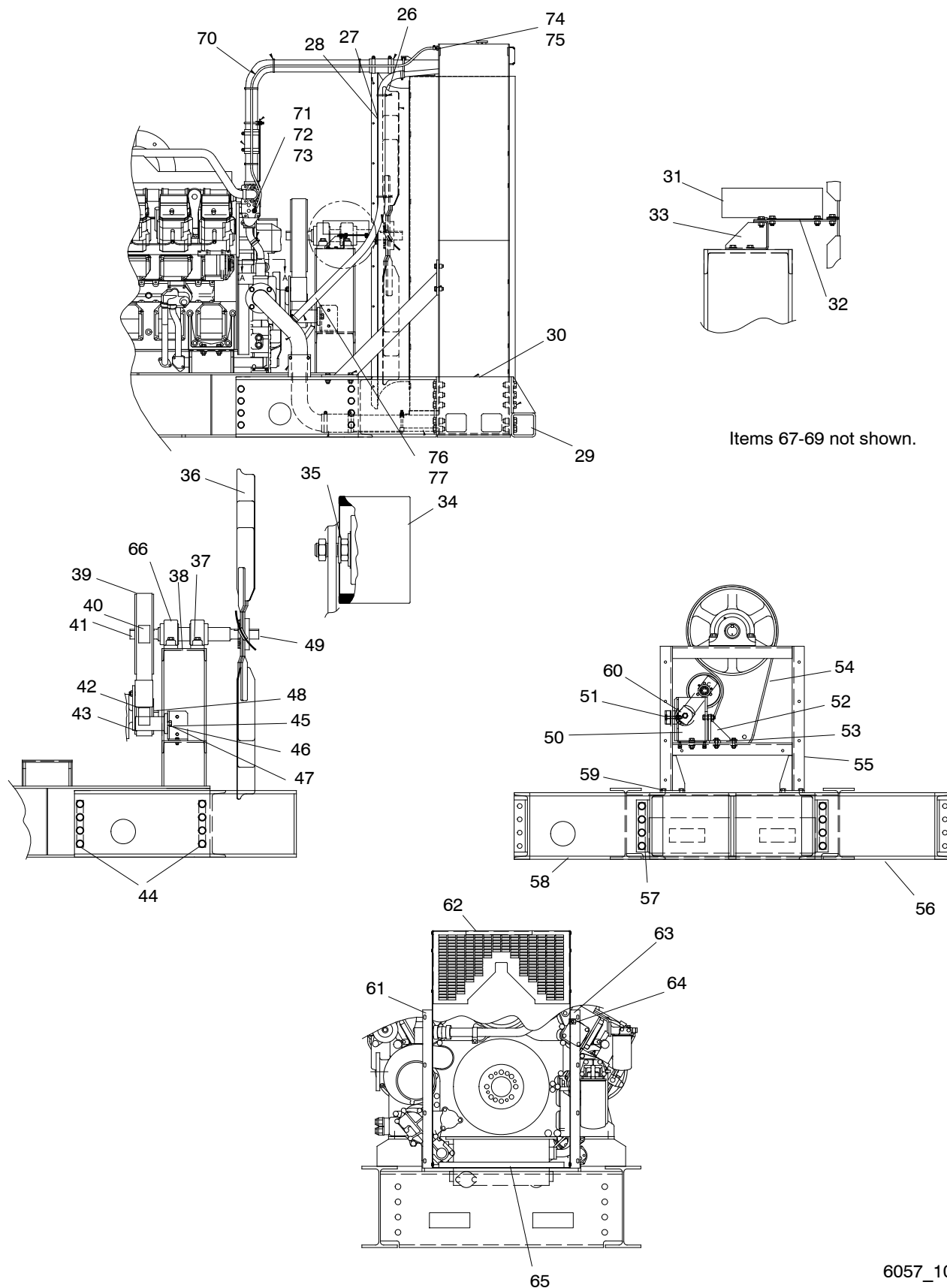
1250/1600 kW

Item	Part Number	Description	Quantity				
			Module				
			GM19627-MA1	GM19627-MA2	GM19627-MA3	GM19627-MA4	GM19627-MA5
1	291542	Clamp, hose, 3.25/3.56 in.	4	4	4	4	4
2	X-507-6	Hose, straight coolant (3.00 in. ID)	2	2	2	2	2
3	GM19342	Tube, upper radiator (LS)	1	1	1	1	1
4	291542	Clamp, hose, 3.25/3.56 in.	4	4	4	4	4
5	X-507-6	Hose, straight coolant (3.00 in. ID)	2	2	2	2	2
6	GM19511	Tube, upper radiator (RS)	1	1	1	1	1
8	365289	Sensor, low fluid assembly	1	1	1	1	1
9	X-6003-8	Conduit, convoluted	1	1	1	1	1
10	354969	Brace, radiator	1	1	1	1	1
11	278788	Valve, drain (3/8"nptf)	1	1	1	1	1
11	X-202-28	Bushing, reducing (3/8 x 1/2"npt)	1	1	1	1	1
12	GM18435	Radiator assembly	1	1			1
12	GM32693	Radiator assembly			1	1	
13	GM23500	Cap, radiator	1	1	1	1	1
14	354969	Brace, radiator	1	1	1	1	1
15	X-6011-3	Washer, beveled, .68 ID x 1.5 in. OD	4	4	4	4	4
15	X-801-9	Washer,hardened,.688 ID x 1.373 in.OD	8	8	8	8	8
16	M961-16040-60	Screw, hex cap	4	4	4	4	4
17	274545	Clamp, hose, 4.31/4.62 in.	2	2	2	2	2
18	X-6014-91	Hose, radiator, straight, 4 in. ID	1	1	1	1	1
19	GM19322	Tube, lower radiator	1	1	1	1	1
20	274545	Clamp, hose, 4.31/4.62 in.	2	2	2	2	2
21	X-6014-31	Hose, straight coolant (4.00 in. ID)	1	1	1	1	1
22	GM19963	Bracket, inlet tube	1	1	1	1	1
23	X-6011-4	Washer, beveled	2	2	2	2	2
24	289372	Clamp, muffler, 4.12 in.	1	1	1	1	1
25	GM19337	Flange, Water Connection (inlet)	1	1	1	1	1

Parts list continues on next page.

Group 104: Cooling System, continued

1250/1600 kW, continued



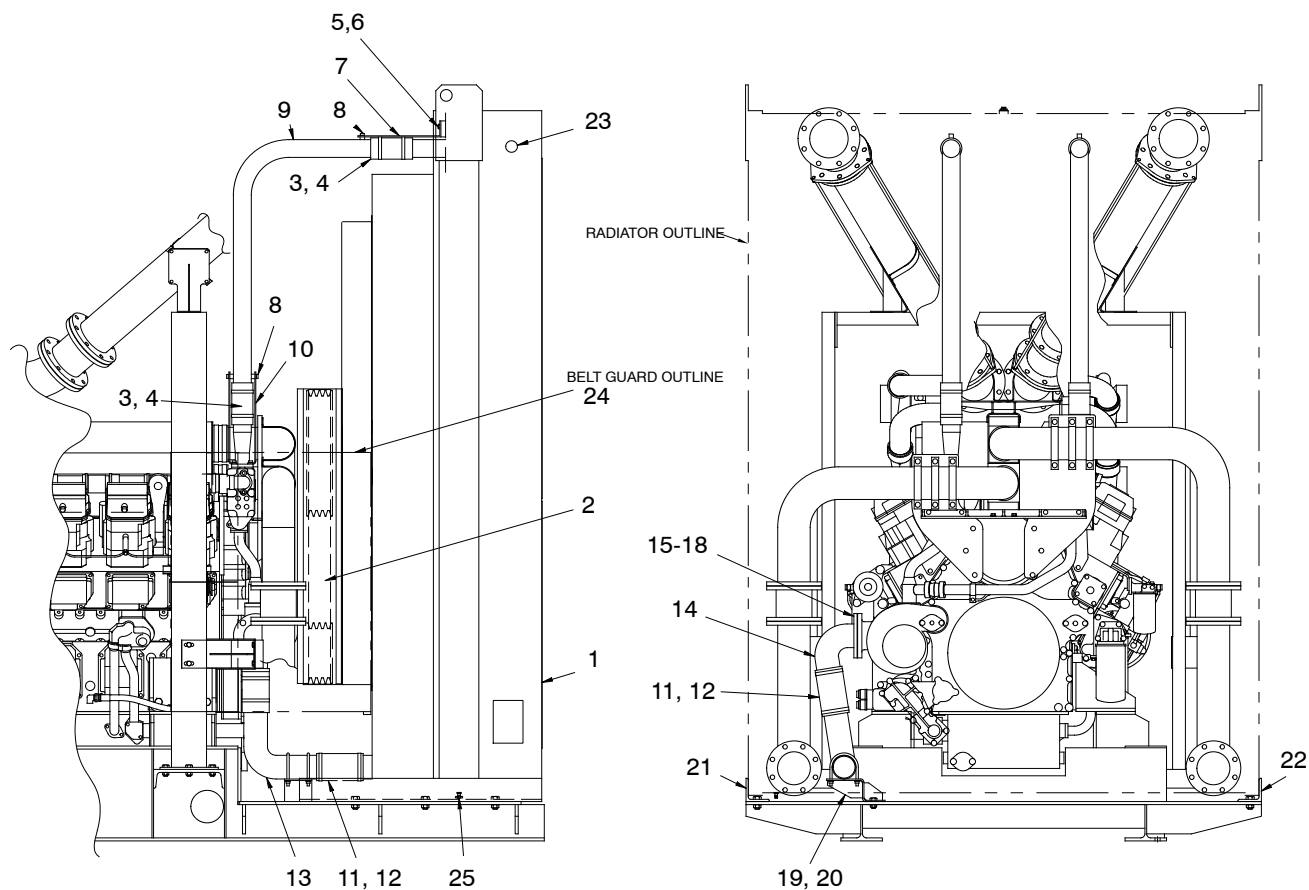
Group 104: Cooling System, continued

1250/1600 kW, continued

Item	Part Number	Description	Quantity				
			Module				
			GM19627-MA1	GM19627-MA2	GM19627-MA3	GM19627-MA4	GM19627-MA5
26	354195	Shroud, venturi fan	3	3	3	3	3
27	354959	Guard, flat fan	4	4	4	4	4
28	GM17890	Plate, support	12	12	12	12	12
29	GM22413	Guard, radiator	1	1	1	1	1
30	354999	Bracket, radiator mounting	2	2	2	2	2
31	GM19605	Guard, shaft	1	1	1	1	1
32	365645	Support, fan guard	2	2	2	2	2
33	365644	Support, fan guard	2	2	2	2	2
34	GM19452	Pulley, idler	1	1	1	1	1
35	X-25-29	Washer, plain, .812 ID x 1.469 in. OD	1	1	1	1	1
36	328246	Fan, pusher	1	1	1	1	1
37	347430	Block, pillow	2	2	2	2	2
38	M934-20-80	Nut, hex	4	4	4	4	4
39	354986	Pulley	1		1		1
39	328253	Pulley		1		1	
40	274905	Bushing, pulley, 3.998 in. NPT	1	1	1	1	1
41	328256	Key	1	1	1	1	1
42	GM19477	Bushing, pulley	1	1	1	1	1
43	GM19476	Pulley, engine	1	1	1	1	1
44	GM20151	Plate, bolting	4	4	4	4	4
45	GM28243	Shim (110 mm OD x 16 gauge stainless)	8	8	8	8	8
46	GM28244	Shim (110 mm OD x 22 gauge stainless)	2	2	2	2	2
47	GM28245	Shim (110 mm OD x 28 gauge stainless)	2	2	2	2	2
48	328256	Key	1	1	1	1	1
49	GM19587	Shaft, fan	1	1	1	1	1
50	GM28531	Plate, mounting (idler)	1	1	1	1	1
51	GM26579	Shaft, pivot	1	1	1	1	1
52	GM26339	Bracket, adjusting	1	1	1	1	1
53	X-801-15	Washer, hardened	6	6	6	6	6
54	GM19614	Belt, poly V (81.5 in.)	1		1		1
54	361563	Belt, poly V (78 in.)		1		1	
55	GM64371	Frame, fan support	1	1	1	1	1
56	GM19304	Frame, radiator LS	1	1	1	1	1
57	GM20151	Plate, bolting	2	2	2	2	2
58	GM19303	Frame, radiator RS	1	1	1	1	1
59	X-6011-3	Washer, beveled, .68 ID x 1.5 in. OD	8	8	8	8	8
60	GM19558	Tensioner, belt	1	1	1	1	1
61	GM19960	Guard, belt (RS)	1	1			
51	GM34896	Guard, belt (RS)			1	1	1
62	GM19958	Guard, belt (top)	1	1			
62	GM34898	Guard, belt (top)			1	1	1
63	GM19959	Guard, belt (LS)	1	1			
63	GM34897	Guard, belt (LS)			1	1	1
64	GM19962	Bracket, belt guard	1	1	1	1	1
65	GM19961	Guard, bottom	1	1	1	1	1
66	GM30510	Shim	AR	AR	AR	AR	AR
67	286283	Clamp, muffler, 3.12 in.	2	2	2	2	2
68	GM19607	Support, radiator tube	2	2	2	2	2
69	M934-24-80	Nut, hex	24	24	24	24	24
70	X-6359-14	Hose, Rubber	2	2	2	2	2
71	X-391-44	Elbow, Hose	2	2	2	2	2
72	X-202-28	Bushing, reducing (3/8 x 1/2"npt)	2	2	2	2	2
73	X-429-9	Clamp, hose, .25/.70 in.	2	2	2	2	2
74	X-582-25	Connector, hose + Vibra Seal 6.4	2	2	2	2	2
75	X-426-9	Clamp, hose, .25/.70 in.	2	2	2	2	2
76	X-6014-115	Hose, Radiator Wire Inset 1.25 ID	1	1	1	1	1
77	X-426-19	Clamp, hose, 1.00/2.00 in.	2	2	2	2	2

Group 104: Cooling System, continued

1820-2000 kW



GM17019

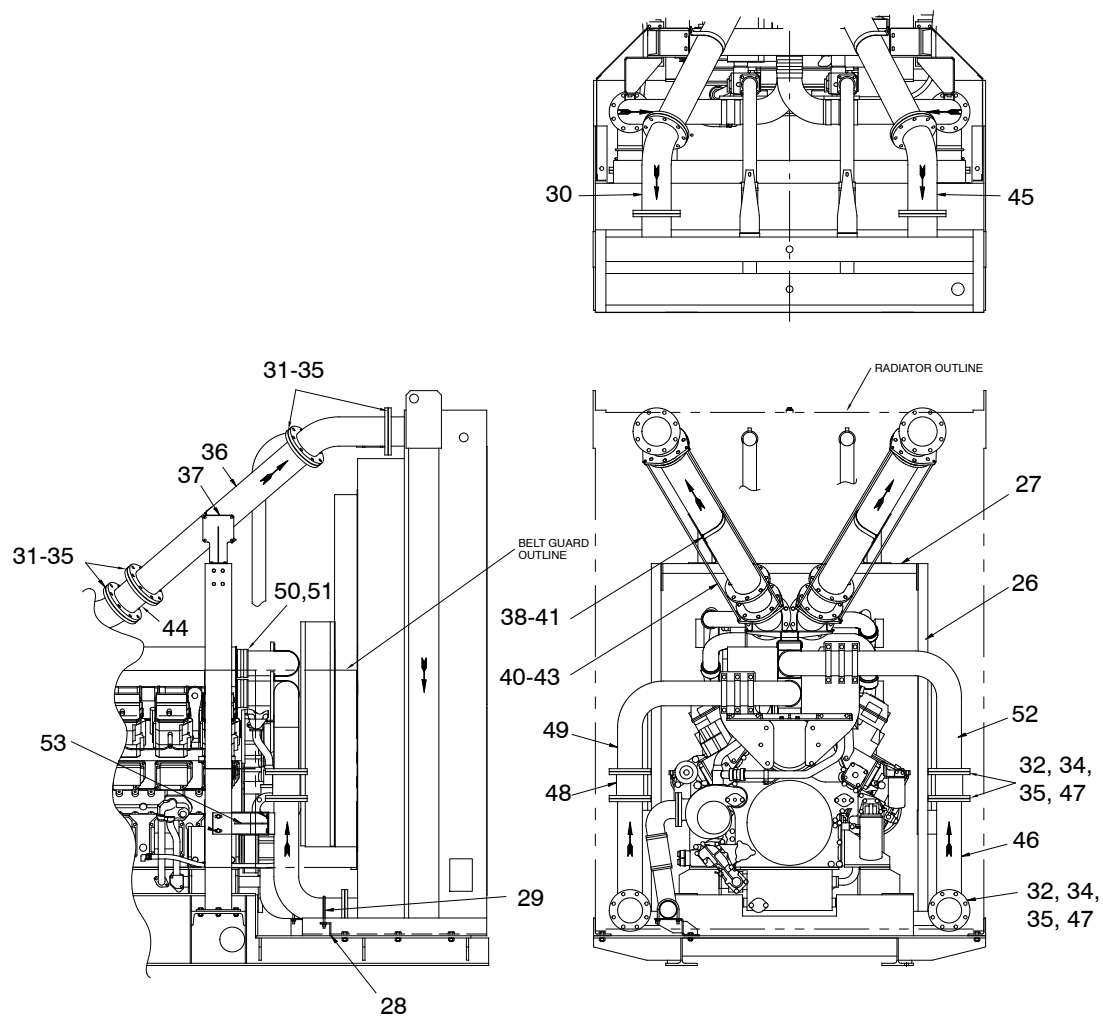
Group 104: Cooling System, continued

1820-2000 kW

Item	Part Number	Description	Quantity
			Module Number GM17019-MA1
1	GM16929	Radiator, 60 Hz, S16R-PTAA2	1
2	GM21122	V-belt	1
3	GM21150	Hose, rubber	4
4	GM21136	Clamp	8
5	GM15180	Washer, spring	4
6	GM15111	Bolt	4
7	GM21144	Stay, pipe	2
8	GM15153	Bolt with washer	6
9	GM21132	Pipe, water	2
10	GM21143	Stay, pipe	4
11	GM21142	Hose, rubber	2
12	GM21135	Clamp	8
13	GM21131	Pipe, water	1
14	GM21130	Pipe, water	1
15	GM21133	Gasket	1
16	GM15963	Bolt	4
17	GM21149	Washer	4
18	GM15182	Washer, spring	4
19	GM17018	Support, tube	1
20	X-397-11	Bolt, 1/2-13 x 6 in.	2
20	257951	Washer, special, .562 IDx1.13 in.OD	8
21	GM17403	Bracket, radiator mounting, RS	1
22	GM17402	Bracket, radiator mounting, LS	1
23	365289	Sensor, low fluid	1
24	GM17660	Belt guard subassembly	1
25	278788	Valve, drain (3/8"nptf)	1
25	X-202-28	Bushing, reducing (3/8 x 1/2"npt)	1
26	GM16833	Support, radiator tube	2
27	GM16834	Support, radiator tube top	1
28	GM16942	Support, tube	2
29	X-722-11	Clamp, muffler, 5.62 in.	2
30	GM21124	Duct, air	1
31	GM21146	Gasket	8
32	GM21148	Bolt	112
33	GM21149	Washer	112
34	GM15182	Washer, spring	112
35	GM15984	Nut	112
36	GM21123	Duct, air	2
37	GM21139	Stay, air duct	2
38	GM21137	Clamp, air duct	2
39	GM21147	Bolt	4
40	GM15174	Washer	64
41	GM15164	Nut	54
42	GM21128	Turnbuckle	6
43	GM15179	Washer, spring	64
44	GM21141	Joint, flexible	2
45	GM21125	Duct, air	1
46	GM21129	Duct, air	2
47	GM21145	Gasket	6
48	GM21138	Joint, flexible	2
49	GM21126	Duct, air	1
50	GM21140	Hose, rubber	4
51	GM21134	Clamp	8
52	GM21127	Duct, air	1
53	GM19871	Bracket, air tube	2

Group 104: Cooling System, continued

1820-2000 kW, continued



GM17019_2

Group 104: Cooling System, continued

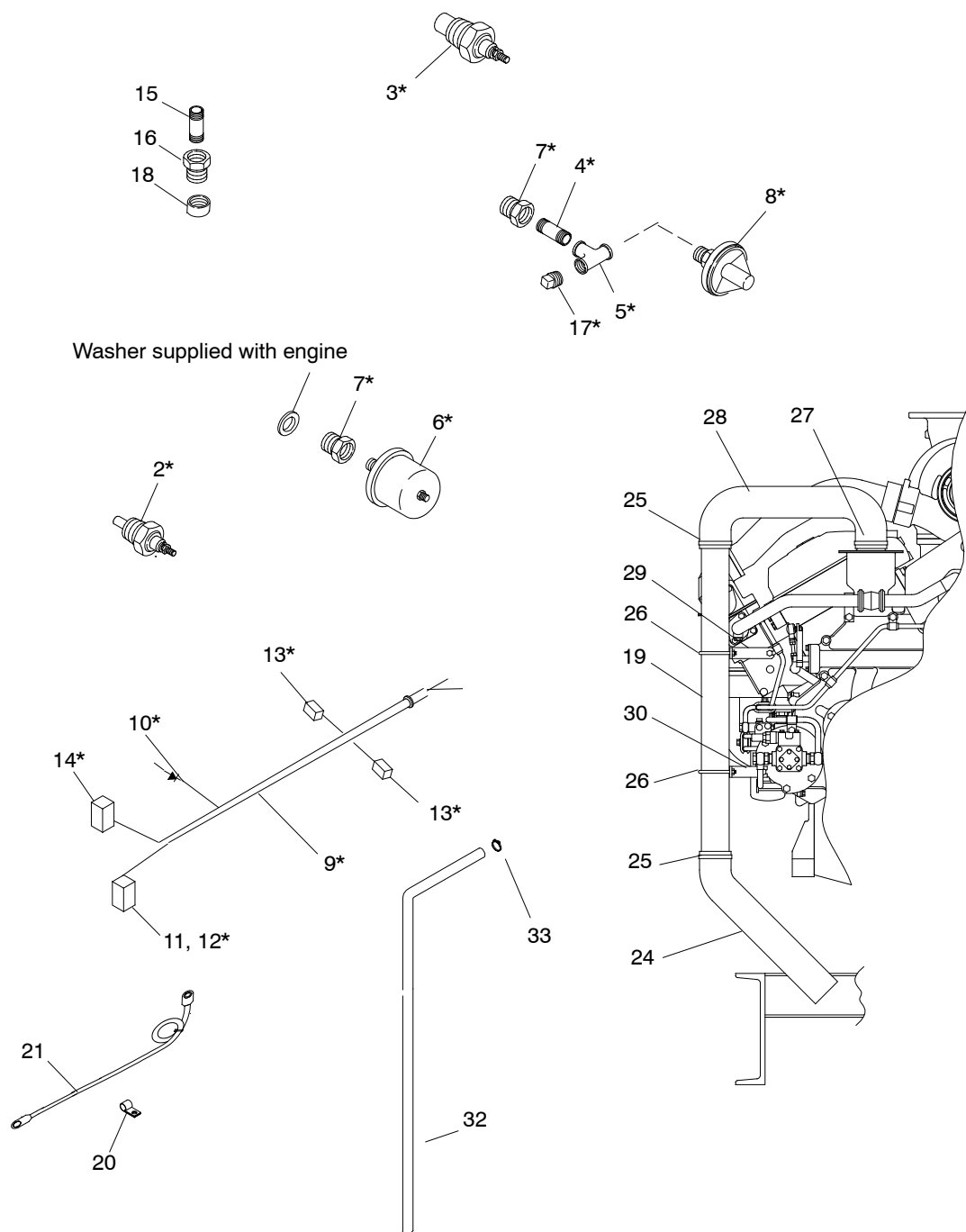
1820-2000 kW, continued

Item	Part Number	Description	Quantity
			Module Number GM17019-MA1
1	GM16929	Radiator, 60 Hz, S16R-PTAA2	1
2	GM21122	V-belt	1
3	GM21150	Hose, rubber	4
4	GM21136	Clamp	8
5	GM15180	Washer, spring	4
6	GM15111	Bolt	4
7	GM21144	Stay, pipe	2
8	GM15153	Bolt with washer	6
9	GM21132	Pipe, water	2
10	GM21143	Stay, pipe	4
11	GM21142	Hose, rubber	2
12	GM21135	Clamp	8
13	GM21131	Pipe, water	1
14	GM21130	Pipe, water	1
15	GM21133	Gasket	1
16	GM15963	Bolt	4
17	GM21149	Washer	4
18	GM15182	Washer, spring	4
19	GM17018	Support, tube	1
20	X-397-11	Bolt, 1/2-13 x 6 in.	2
20	257951	Washer, special, .562 IDx1.13 in.OD	8
21	GM17403	Bracket, radiator mounting, RS	1
22	GM17402	Bracket, radiator mounting, LS	1
23	365289	Sensor, low fluid	1
24	GM17660	Belt guard subassembly	1
25	278788	Valve, drain (3/8"nptf)	1
25	X-202-28	Bushing, reducing (3/8 x 1/2"npt)	1
26	GM16833	Support, radiator tube	2
27	GM16834	Support, radiator tube top	1
28	GM16942	Support, tube	2
29	X-722-11	Clamp, muffler, 5.62 in.	2
30	GM21124	Duct, air	1
31	GM21146	Gasket	8
32	GM21148	Bolt	112
33	GM21149	Washer	112
34	GM15182	Washer, spring	112
35	GM15984	Nut	112
36	GM21123	Duct, air	2
37	GM21139	Stay, air duct	2
38	GM21137	Clamp, air duct	2
39	GM21147	Bolt	4
40	GM15174	Washer	64
41	GM15164	Nut	54
42	GM21128	Turnbuckle	6
43	GM15179	Washer, spring	64
44	GM21141	Joint, flexible	2
45	GM21125	Duct, air	1
46	GM21129	Duct, air	2
47	GM21145	Gasket	6
48	GM21138	Joint, flexible	2
49	GM21126	Duct, air	1
50	GM21140	Hose, rubber	4
51	GM21134	Clamp	8
52	GM21127	Duct, air	1
53	GM19871	Bracket, air tube	2

Group 105: Engine

Items not shown: 1, 22, 23, 31

* See Control and Harness group for part number.

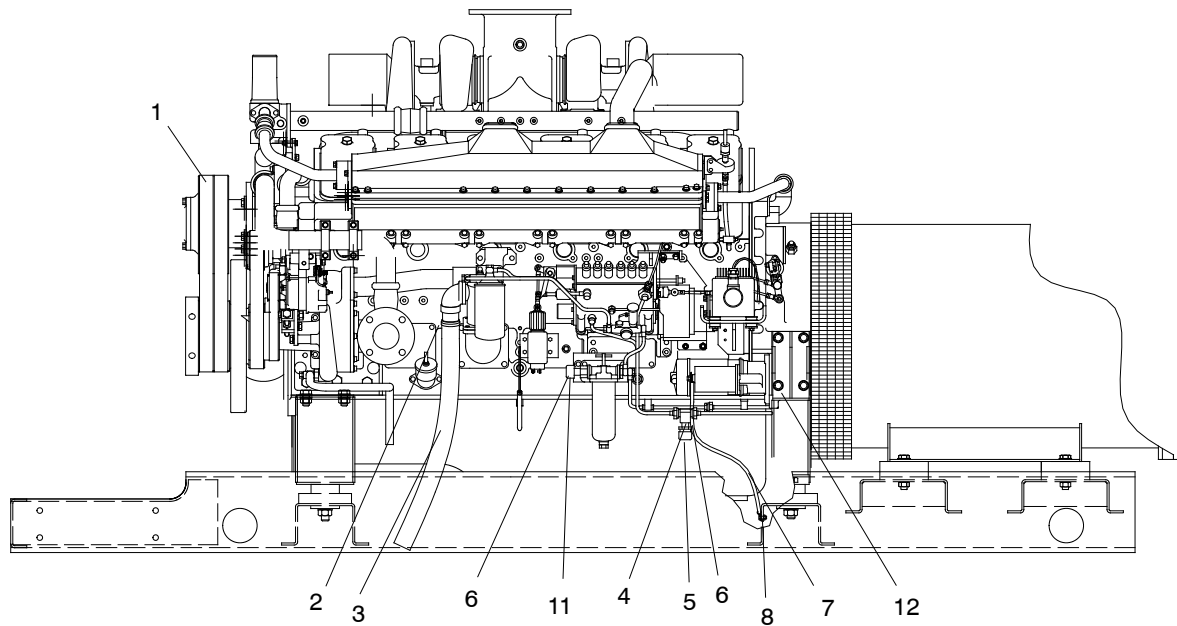


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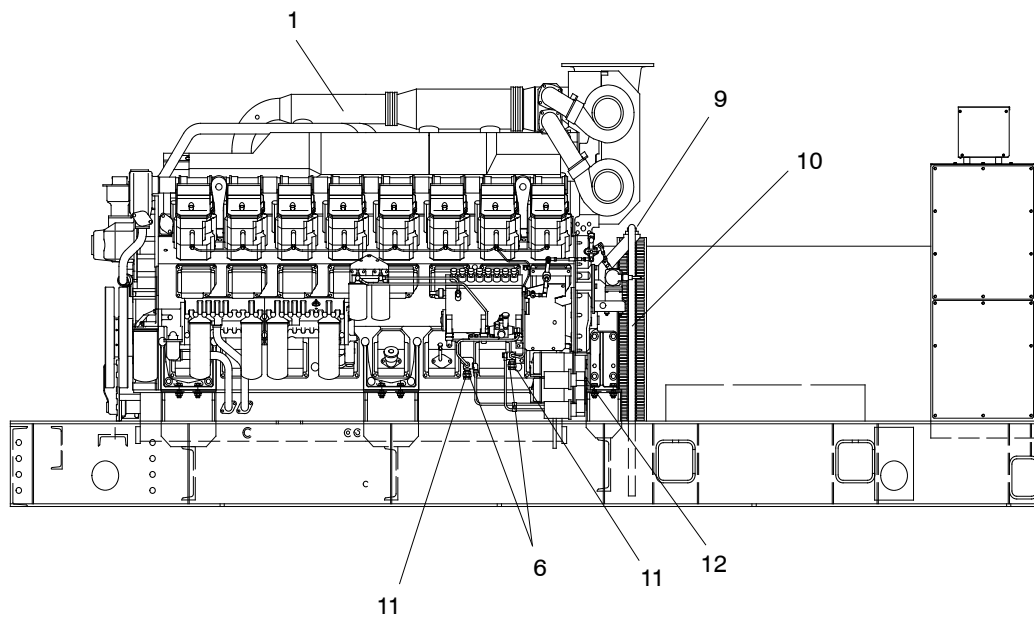
Group 105: Engine

Item	Part Number	Description	Quantity													
			Variation Number													
			1	2	3	4	5	6	7	8	9	10	11	12	22	
1	GM10524	Engine assembly, Mitsubishi			1		1									
1	GM10523	Engine assembly, Mitsubishi				1		1								
1	GM11874	Engine assembly, Mitsubishi	1	1												
1	GM16631	Engine assembly, Mitsubishi							1							
1	GM17888	Engine assembly, Mitsubishi								1						
1	GM30608	Engine assembly, Kohler D600									1					
1	GM31565-SP	Engine Assy, D600 24.5 A50													1	
1	GM30951	Engine assembly, Kohler D2000										1				
1	GM31046	Engine assembly, Kohler D1000 37.1A60											1			
1	GM31047	Engine assembly, Kohler D1000 37.1A50												1		
2	*	Sender, water temperature	1		1	1										
3	*	Switch, high temperature shutoff	1		1	1										
4	*	Nipple, pipe, 1/8 x 3/4 in.	1		1	1										
5	*	Fitting, pipe tee, 1/8 x 1/8 x 1/8 in.	1		1	1										
6	*	Sender, oil pressure	1		1	1										
7	*	Adapter bushing			2	2										
7	*	Adapter bushing	2													
7	*	Fitting, 45° street elbow	2													
8	*	Switch pressure assembly	1		1	1										
9	*	Harness, engine			1	1										
9	*	Harness, engine	1													
10	*	Diode, 6 A	4		5	5										
11	*	Connector, cable	1		1	1										
12	*	Connector, 24-position	1		1	1										
13	*	Connector	2		3	3										
14	*	Connector	1		1	1										
15	X-209-5	Nipple, pipe, 1/2 x 1 1/2 in.			2	2	2	2					2	2		
15	X-206-9	Nipple, pipe	2						2	2		2				
15	X-204-9	Pipe, 3/8 in. NPT x 1 in.		2												
15	X-204-8	Pipe, 3/8 in. NPT x 1.5 in.									2				2	
16	168848	Bushing, reducing, 1/2 x 1 in. NPT			2	2	2	2					2	2		
16	X-202-23	Bushing, reducing, 3/8 x 3/4 in. NPT	2	2							2				2	
16	GM10841	Adapter bushing	2	2							2				2	
17	*	Plug, pipe, 1/8	1		1	1										
18	X-268-4	Cap, pipe			2	2	2	2					2	2		
18	X-268-1	Cap, pipe, 3/4 in.	2						2	2	2	2			2	
19	GM10579	Tube, breather			1	1	1	1					1	1		
20	X-672-32	Clamp, insulated			4	4	4	4					4	4		
20	X-672-3	Clamp, insulated			2	2	2	2					2	2		
20	X-672-37	Clamp	5	5							5				5	
21	X-545-145	Cable, battery, 1575mm, No. 2/0 wire, type 5			1	1	1	1					1	1		
22	X-22-15	Washer, lock, .456 ID x 1.058 in. OD			3	3										
23	226917	Decal, negative battery connection			1	1	1	1					1	1		
24	X-6014-57	Hose, radiator, straight, 3 in. ID			1	1	1	1					1	1		
25	291542	Clamp, hose, 3.25/3.56 in.			2	2	2	2					2	2		
26	286283	Clamp, muffler, 3.12 in.			2	2	2	2					2	2		
27	324342	Clamp, hose, 3.43/3.75 in.			1	1	1	1					1	1		
28	GM10964	Hose, breather			1	1	1	1					1	1		
29	GM10965	Bracket, breather tube			1	1	1	1					1	1		
30	GM10966	Bracket, breather tube			1	1	1	1					1	1		
31	X-6214-4	Cap			1	1	1	1					1	1		
32	X-6014-97	Hose, straight, 1 in. ID							2	2		2				
33	X-426-8	Clamp, hose, .81/1.75 in.							2	2		2				
34	GM74535	Terminal, Ground									2	2			2	

Group 105: Engine, continued



780/800 kW



1250-1820 kW

6057_105_2a

Group 105: Engine, continued

Item	Part Number	Description	Quantity								
			Variation Number								
			13	14	15	16	17	18	19	20	21
1	GM31591	Engine assembly, D800 33.9A60, 60 Hz, 24 V	1		1						
1	GM31592	Engine assembly, D750 33.9A50, 50 Hz, 24 V		1		1					
1	GM31813	Engine assembly, D1600 65.4A60, 60 Hz, 24 V					1				
1	GM31814	Engine assembly, D1600 65.4A50, 50 Hz, 24 V						1			
1	GM31992	Engine assembly, D2000/D1820 65.4A50							1		
1	GM31811	Engine assembly, D1250 49.0A60, 60 Hz, 24 V								1	
1	GM31812	Engine assembly, D1250 49.0A50, 50 Hz, 24 V									1
2	X-426-19	Clamp, hose, 1.00/2.00 in.	1	1	1	1					
3	X-6292-4	Hose	1	1	1	1					
4	X-209-5	Pipe (1/2 NPT x 1.50 in.)	1	1	1	1					
5	153659	Bushing, reducing (1/2 x 3/4 in. NPT)	1	1	1	1					
6	X-268-1	Cap, pipe (3/4 in. NTPF)	2	2	2	2	2	2	2	2	2
7	X-545-145	Cable, battery (No. 2/0 x 62 in.) red +	1	1	1	1					
8	X-672-32	Clamp, insulated, 1.06 in.	2	2	2	2					
9	X-426-12	Clamp, hose, .69/1.25 in.					2	2	2	2	2
10	X-6014-97	Hose, radiator, straight, 1 in. ID					2	2	2	2	2
11	X-206-9	Pipe (3/4 in. NPT x 1.38 in.)	1	1	1	1	2	2	2	2	2
12	GM74535	Terminal, Ground	2	2	2	2			2		
12	GM77363	Terminal, Ground					2	2		2	2

Group 107: Nameplates and Decals

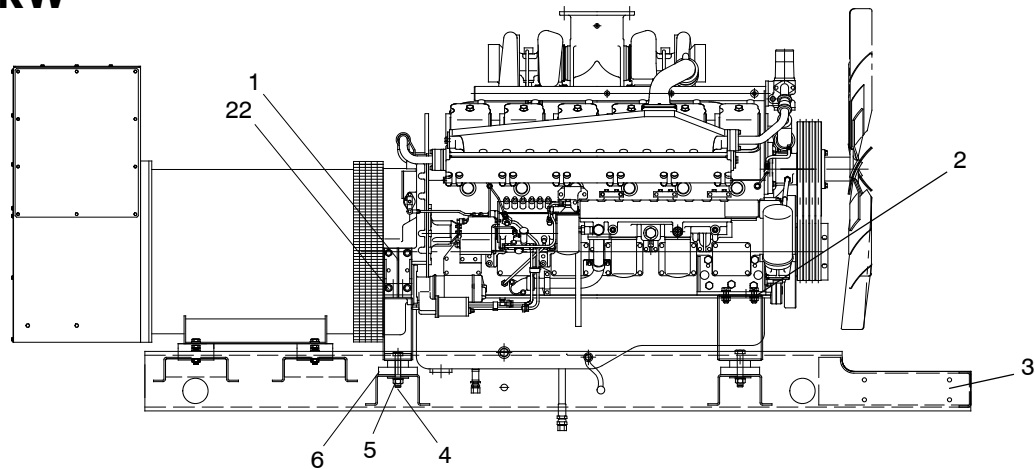
Item	Part Number	Description	Quantity		
			Variation Number		
			GR1	GR2	3
1	X-6232-3	Decal, stripes	1	1	
1	X-6232-6	Decal, stripe			1
2	X-6246-1	Decal, Kohler Power System	1	1	1
3	X-6276-8	Logo, Kohler	2	2	
4	224233	Decal, 1-800 number	1	1	1
5	226917	Decal, negative battery connection	1	1	1
6	238402	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	1
17	GM13227	Decal, warning generator fan force	1	1	
18	GM13228	Decal, warning lifting support	1	1	
19	364116	Decal, caution welding disconnect	2	2	2
20	279748	Decal, caution	1	1	
21	GM60531	Decal, Control Height	1	1	1
22	258815	Decal, warning voltage backfeed			2
23	345211	Decal, ground			1
24	GM79042	Decal, Phasing			1
25	GM79043	Decal, Phasing C-B-A			1

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

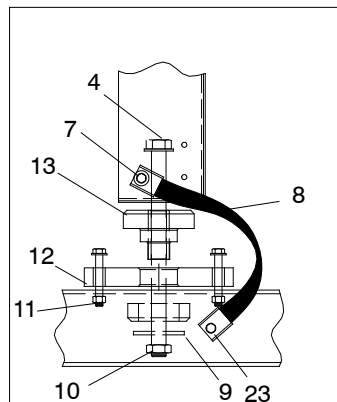
Notes

Group 109: Skid and Plant Mounting

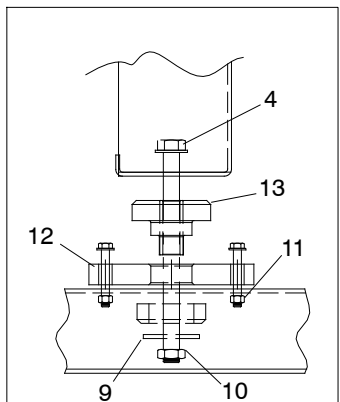
750/800 kW



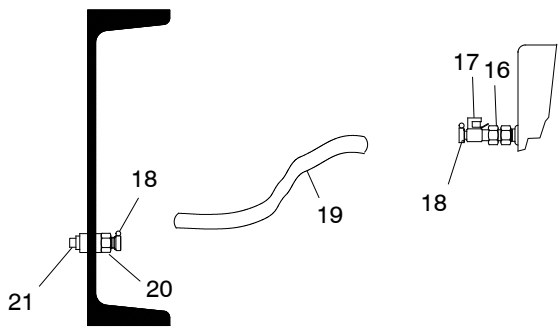
Isolation Mounting



Radiator End



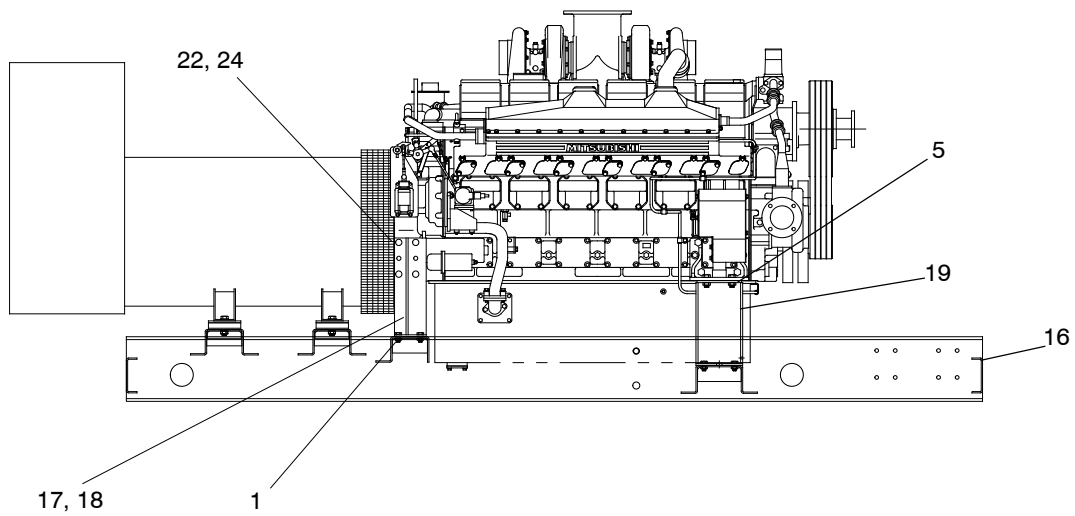
Generator End



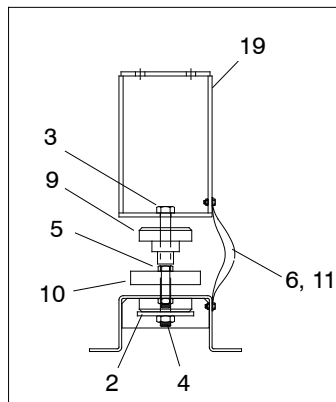
Group 109: Skid and Plant Mounting

Item	Part Number	Description	Quantity Module					
			GM31733-MA1	GM31733-MA2	GM77242-MA1	GM77242-MA2	GM80803-MA1	GM80803-MA2
1	GM31759	Mount, rear engine	2	2	2	2	2	2
2	GM31760	Mount, front engine	2	2	2	2	2	2
3	GM31886	Skid	1	1				
3	GM77253	Skid			1	1		
3	GM80815	Skid					1	
3	GM80792	Skid						1
4	M931-24160-60	Screw, hex cap	4	4	4	4	4	4
5	M934-24-80	Nut, hex		4		4		
6	361668	Plate, spacer mounting	4		4			
7	X-22-16	Washer, lock., 326 ID x .883 in. OD	3		3			
8	GM21085	Strap, ground (16 in.)	2		2		2	2
9	X-25-152	Washer, plain, 1.06 ID x 5.25 in. OD	4		4		4	4
10	M982-24-60	Nut, hex elastic stop	4		4		4	4
11	M934-20-80	Nut, hex	12	12	12	12	12	12
12	361039	Plate, generator mounting	4		4		4	4
13	361054	Vibromount	4		4		4	4
16	X-202-41	Bushing, reducing (1/2 x 3/4 in. NPT)	1	1	1	1	1	1
17	272701	Valve, oil drain	1	1	1	1	1	1
18	X-426-12	Clamp, hose, .69/1.25 in.	2	2	2	2	2	2
19	X-577-28	Hose, rubber, straight, .62 in. ID	1	1	1	1	1	1
20	X-582-1	Connector, hose + vibra seal	1	1	1	1	1	1
21	X-75-28	Plug, pipe (1/2 in. NPTF)	1	1	1	1	1	1
22	M933-18035-60	Screw, hex cap	8	8	8	8	8	8
23	X-22-26	Washer, lock, .521 ID x 1.24 in. OD	3	3	3	3	2	2

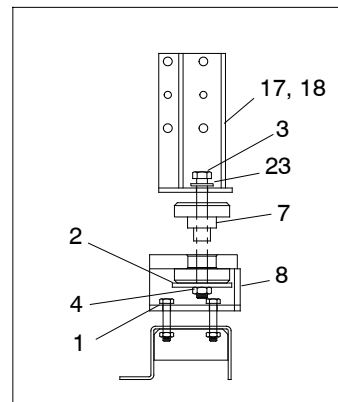
Group 109: Skid and Plant Mounting, continued



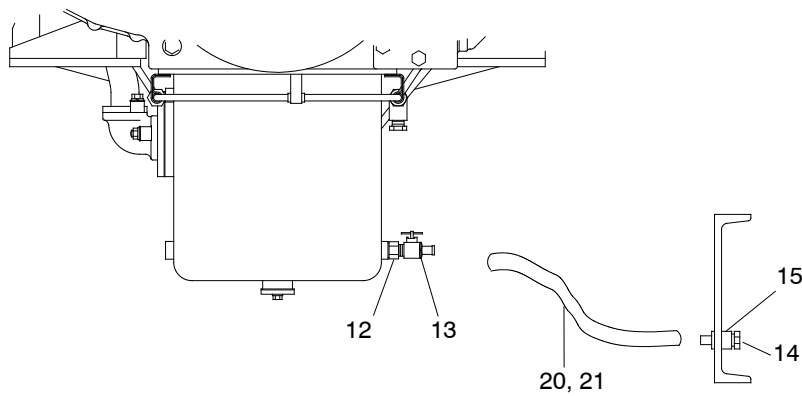
Isolation Mounting



Radiator End



Generator End

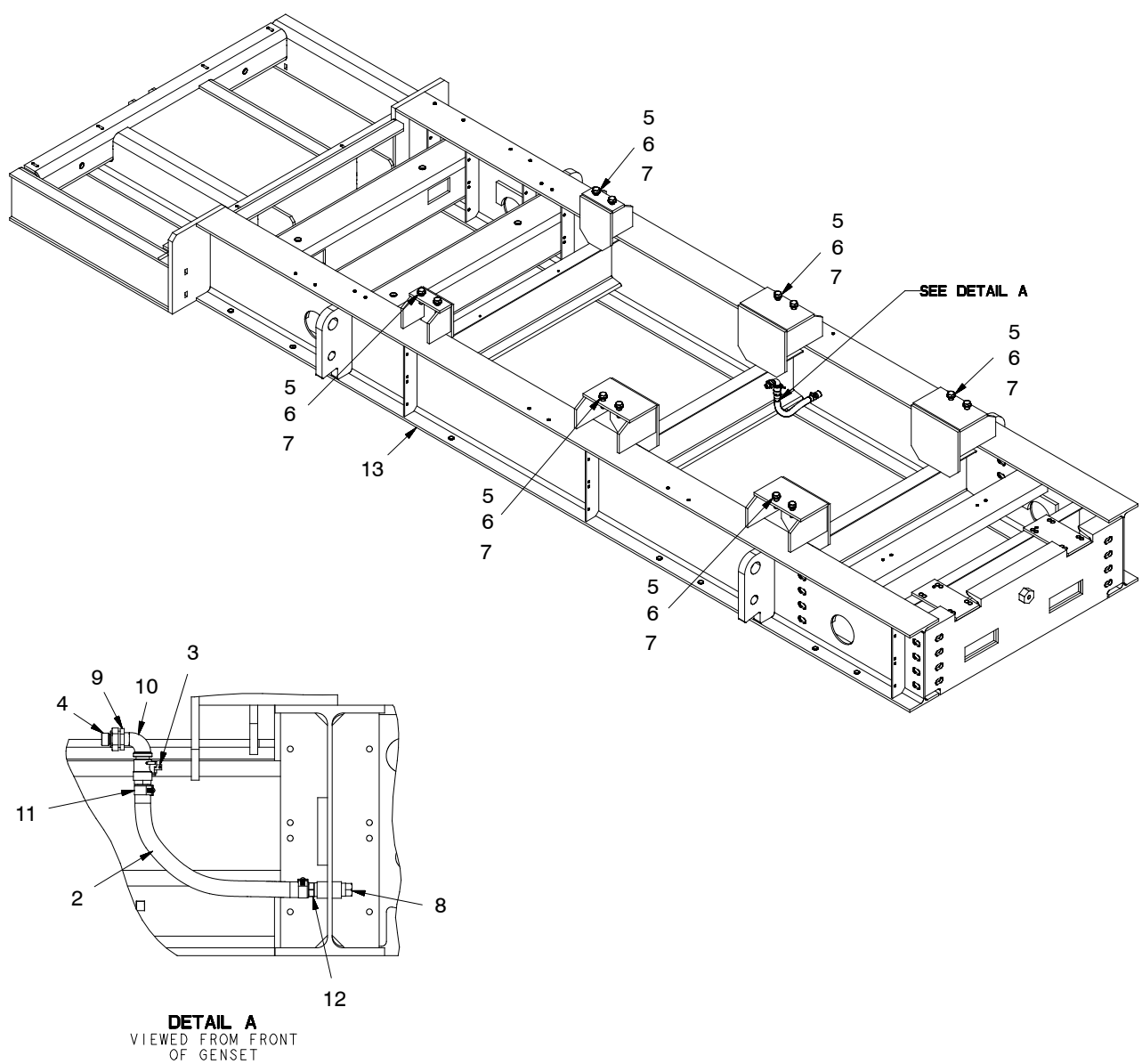


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Group 109: Skid and Plant Mounting, continued

Item	Part Number	Description	Quantity															
			Module															
			GM10566-MA1	GM10567-MA1	GM10659-MA1	GM10660-MA1	GM12012-MA1	GM12012-MA2	GM16648-MA1	GM31224-MA1	GM31224-MA2	GM31226-MA1	GM31226-MA2	GM19377-MA1	GM32742-MA1	GM32742-MA2	GM77241-MA1	GM77241-MA2
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								
2	X-25-155	Washer, plain					8	8								4	4	
3	M931-24160-60	Screw, hex cap	4		4				4	4								
3	M931-20120-60	Screw, hex cap					4	4								4	4	
3	M982-20-80	Nut, hex elastic stop					4	4								4	4	
4	M982-24-80	Nut, hex elastic stop	4		4				4	4								
5	M934-20-80	Nut, hex	12	8	12	8			12	12	8	8						
5	M125A-18-80	Washer, plain					12	12	12					12	8	8	12	
5	M6797A-18-80	Washer, lock					12	12									12	
5	M933-18050-60	Screw, hex cap					12	12									12	
5	M933-18060-60	Screw, hex cap							12					12	8	8		
5	M934-18-80	Nut, hex					12	12	12					12	8	8	12	
6	X-22-16	Washer, lock, .326 ID x .883 in. OD	3		3		3	3		3	3					3	3	
7	361919	Vibromount	2		2					2	2							
7	365190	Vibromount					2	2								2	2	
8	361024	Mount, engine	2		2					2	2							
9	361179	Vibromount	2		2					2	2							
9	361734	Vibromount					2	2								2	2	
10	361039	Plate, generator mounting	2		2					2	2							
10	361733	Plate, engine mounting					4	4								4	4	
11	GM21085	Strap, ground (16 in.)	1		1		1	1		1	1					1	1	
12	X-202-41	Bushing, reducing, 1/2 x 3/4 in. NPT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12	GM10577	Adapter bushing					1	1	1					1	1	1	1	
12	X-6278-4	Washer, nylon							1					1	1	1		
12	X-274-2	Fitting, 45° street elbow					1	1								1	1	
12	X-211-1	Elbow, street, 90° x 1/2 in. NPT							1					1	1	1		
13	272701	Valve, oil drain	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14	241062	Plug, drain	1	1	1	1												
14	X-582-1	Coupling, hose					1	1	1	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	1	1	1	
15	276552	Washer, nylon, .878 ID x 1.132 in. OD	1	1	1	1												
16	GM10658	Skid			1	1					1		1					
16	GM10427	Skid	1	1						1			1					
16	GM11967	Skid					1											
16	GM12024	Skid						1										
16	GM16624	Skid							1									
16	GM19297	Skid												1				
16	GM32746	Skid													1			
16	GM32745	Skid														1		
16	GM77251	Skid															1	
16	GM77252	Skid															1	
17	GM10458	Support, rear engine, RS	1		1					1	1							
17	GM10521	Support, rear engine, RS		1		1						1	1					
18	GM10459	Support, rear engine, LS	1		1					1	1							
18	GM10522	Support, rear engine, LS		1		1						1	1					
19	GM10457	Support, front engine	2		2					2	2							
19	GM10520	Support, front engine		2		2						2	2					
19	GM11972	Mount, engine, front					4	4								4	4	
20	X-426-3	Clamp, hose, .56/1.06 in.	2	2	2	2	2	2	2	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					
21	X-577-47	Hose, rubber, straight, .62 in. ID					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							
24	M6797A-18-80	Washer, lock	1	1	1	1				1	1	1	1					

Group 109: Skid and Plant Mounting, continued

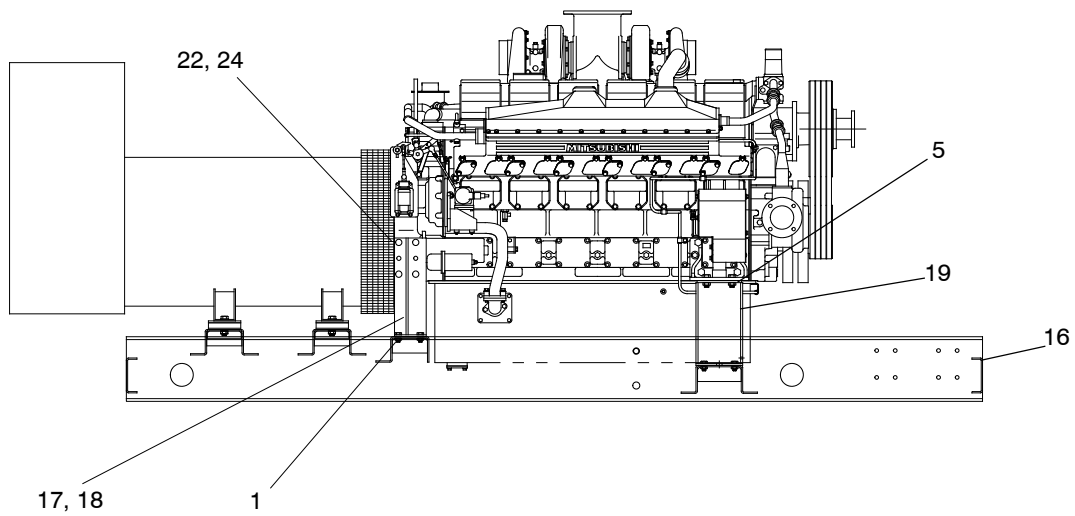


GM80627

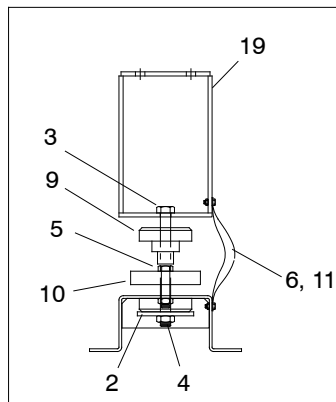
Group 109: Skid and Plant Mounting, continued

Item	Part Number	Description	Quantity Module											
			GM80626-MA1	GM80626-MA2	GM80626-MA3	GM80626-MA4	GM80626-MA5	GM80626-MA6	GM80627-MA1	GM80627-MA2	GM80627-MA3	GM80627-MA4	GM80627-MA5	GM80627-MA6
2	X-577-28	Hose, rubber, straight, .62 in. ID	1	1	1	1	1	1	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	1	1	1
4	GM10577	Adapter, bushing	1	1	1	1	1	1	1	1	1	1	1	1
5	M125A-18-80	Washer, plain	8	8	8	8	8	8	12	12	12	12	12	12
6	M933-18060-60	Screw, hex cap	8	8	8	8	8	8	12	12	12	12	12	12
7	M934-18-80	Nut, hex	8	8	8	8	8	8	12	12	12	12	12	12
8	X-75-28	Plug, pipe, 1/2 in.	1	1	1	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	1	1	1
10	X-211-1	Elbow, Street(90 deg x 1/2"nptf)	1	1	1	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	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	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	GM80617	Skid							1					
13	GM80618	Skid								1				
13	GM80619	Skid									1			
13	GM80620	Skid										1		
13	GM80621	Skid											1	
13	GM80622	Skid												1

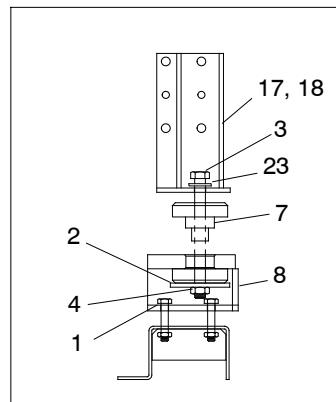
Group 109: Skid and Plant Mounting, continued



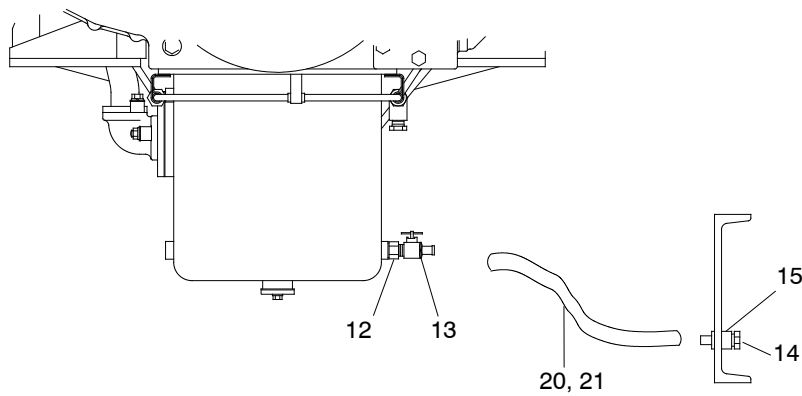
Isolation Mounting



Radiator End



Generator End

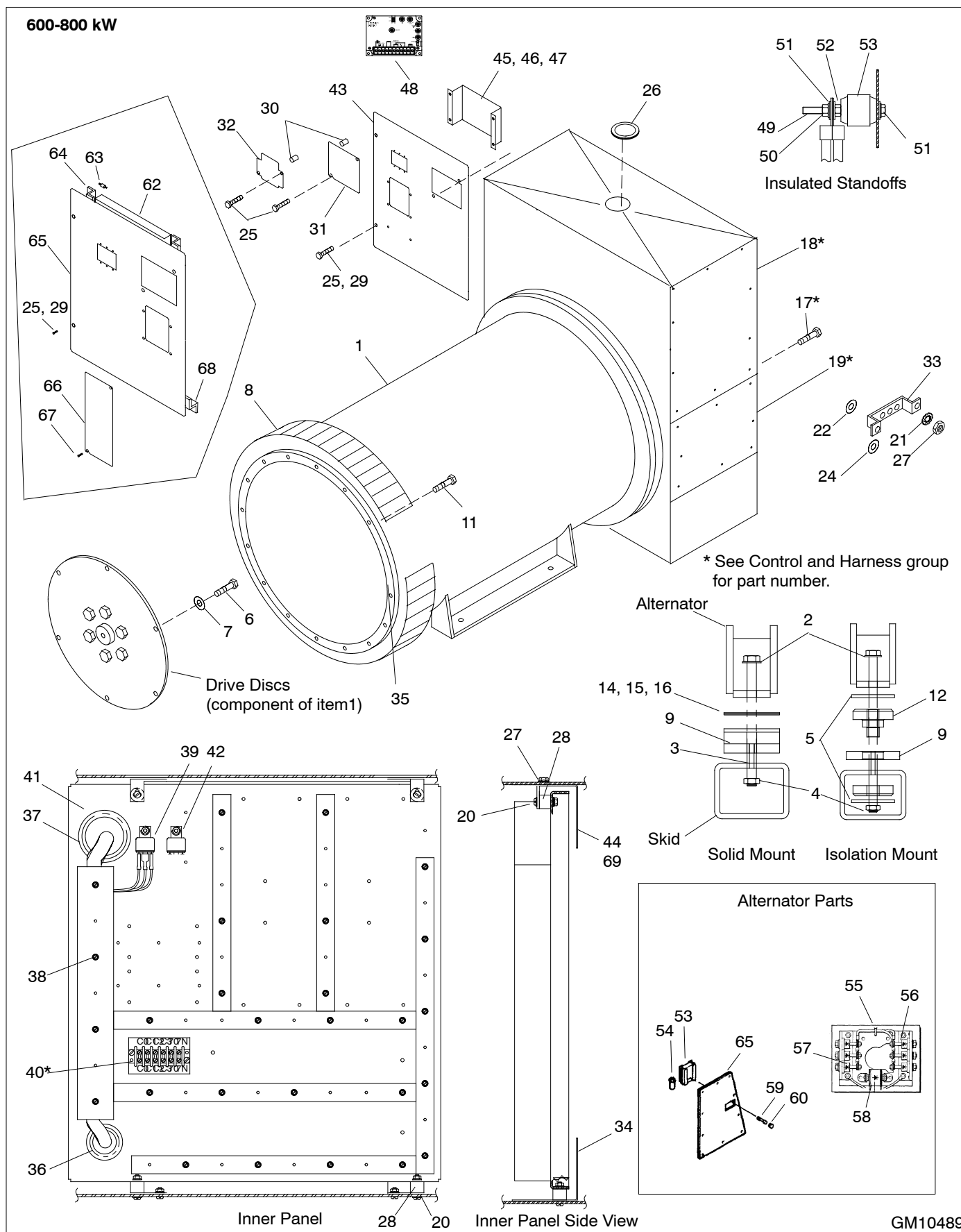


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Group 109: Skid and Plant Mounting, continued

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
5	M934-20-80	Nut, hex	12	12	12	12	12	12	12	12
5	M125A-18-80	Washer, plain	7	7	7	7	7	7	7	7
5	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 201: Alternator and Mounting



Group 201: Alternator and Mounting

600-800 kW

Item	Part Number	Description	Qty.
1	See chart on following page	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., .656 ID x 1.06 in.	6
7	X-801-5	Washer (750/800 kW)	12
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, .262 ID x .743 in.	8
21	X-22-14	Washer, lock, .391 ID x .975 in.	4
22	X-25-118	Washer, plain, .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	320828	Insert, threaded, 1/4-20 in.	4
31	361190	Cover, access	1
32	361191	Cover, DVR access	1
33	361271	Bus, ground	1
34	361478	Retainer, inner panel	2
35	GM10640	Guard, alternator	1

Item	Part Number	Description	Qty.
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
43	361518	Door, junction box	1
44	365476	Bracket, inner panel	1
45	See chart on following page	Bracket, governor mounting	1
46	See chart on following page	Vibromount	4
47	See chart on following page	Washer, lock, .172 ID x .595 in. OD	8
48	See chart on following page	Controller, governor	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.

Group 201: Alternator and Mounting, continued

600-800 kW

Alternator Part Number and Mount Type

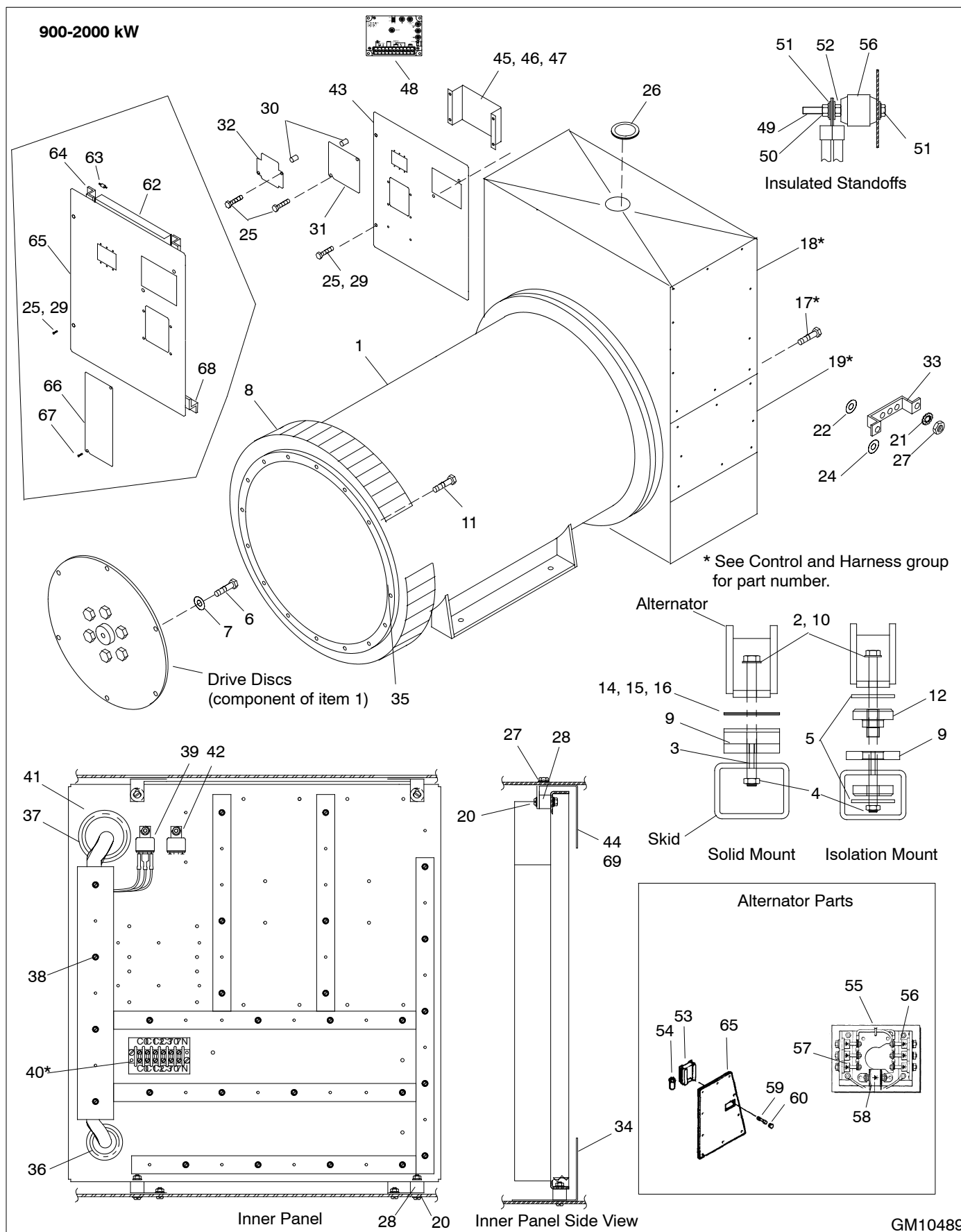
Use this table to identify the module number's alternator part number (item 1 of the parts illustration on the previous page), mount type, and governor (items 45-48 below).

Module Number	Mount Type	Part Number				
		Item 1, Alternator	Item 45, Bracket	Item 46, Vibromount	Item 47, Lock Washer	Item 48, Controller, Governor
GM12001-MA1	Isolation	GM11976	GM10429	282829	X-22-18	347841
GM12001-MA2	Isolation	GM12021	GM10429	282829	X-22-18	347841
GM12001-MA3	Isolation	A-361756	GM10429	282829	X-22-18	347841
GM12001-MA4	Isolation	GM12022	GM10429	282829	X-22-18	347841
GM12001-MA5	Isolation	GM12023	GM10429	282829	X-22-18	347841
GM12001-MA6	Isolation	A-361760	GM10429	282829	X-22-18	347841
GM17023-MA1†	Isolation	GM12021	GM10429	282829	X-22-18	347841
GM17023-MA2†	Isolation	GM11976	GM10429	282829	X-22-18	347841
GM17023-MA3†	Isolation	A-361756	GM10429	282829	X-22-18	347841
GM17023-MA4†	Isolation	GM12022	GM10429	282829	X-22-18	347841
GM17023-MA5†	Isolation	GM12023	GM10429	282829	X-22-18	347841
GM17023-MA6†	Isolation	A-361760	GM10429	282829	X-22-18	347841
GM30678-MA1†	Isolation	GM12021	See items 23, 24, and 28 in Control and Harness Group.			Governor Controller number varies by engine model. See engine parts catalog for part number. Engine parts catalog numbers are listed in Group 701: Literature.
GM30678-MA2†	Isolation	GM11976				
GM30678-MA3†	Isolation	A-361756				
GM30678-MA4†	Isolation	GM12022				
GM30678-MA5†	Isolation	GM12023				
GM30678-MA6†	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				

† Module uses vibration isolation door-mounted component items 62-69 on previous illustration.

Notes

Group 201: Alternator and Mounting, continued



Group 201: Alternator and Mounting, continued

Item	Part Number	Description	Qty.
1	See chart	Alternator assembly	1
1	M931-20120-60	Screw, HC (5M frames, solid mt.)	4
2	M931-20160-60	Screw, HC (5M frames, iso. mt.)	4
2	M931-24160-60	Screw, HC (7M frames, iso. mt.)	4
2	M931-24120-60	Screw, HC (7M frames, solid mt.)	4
2	M933-24065-60	Screw, hex cap (1250-2000 kW)	4
3	M934-20-80	Nut, hex (900/1000 kW)	8
4	M982-20-80	Nut, hex (5M frames, isolation mt.)	4
4	M934-20-80	Nut, hex (5M frames, solid mount)	4
4	M982-24-60	Nut, hex (7M frames, isolation mt.)	4
4	M934-24-80	Nut, hex (7M frames, solid mount)	4
5	X-25-152	Washer, plain, 1.06 ID x 5.25 in. OD	8
6	M933-16030-82	Screw, hex cap	6
6	M933-16045-82	Screw, hex cap (7M, 4-bus alt.)	6
6	M961-16045-82	Screw, hex cap (1250-2000 kW)	12
7	X-801-5	Washer, hardened, .656 ID x 1.06 in. OD	6
7	X-801-5	Washer, hardened, .656 ID x 1.06 in. OD (1250-2000 kW)	12
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
11	M961-12050-82	Screw, hex cap (5M frames)	16
11	M961-12050-82	Screw, hex cap (7M frames)	16
11	M961-14050-82	Screw, hex cap (1250-2000 kW)	16
12	361919	Vibromount, isolation mount	4
13	X-400-239	Spacer	4
14	290743	Shim (16 ga.)	4
15	290744	Shim (7 ga.)	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
29	295009	Retainer	2
30	320828	Insert, threaded, 1/4-20 in.	4
31	361190	Cover, access	1
32	361191	Cover, DVR access	1
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
40	*	Terminal block	1
41	361186	Panel, junction box, inner	1
42	272684	Relay	1
43	361518	Door, junction box	1
44	365476	Bracket, inner panel	1

Parts list continues on next page.

* See Control and Harness group beginning on page 38 for part number.

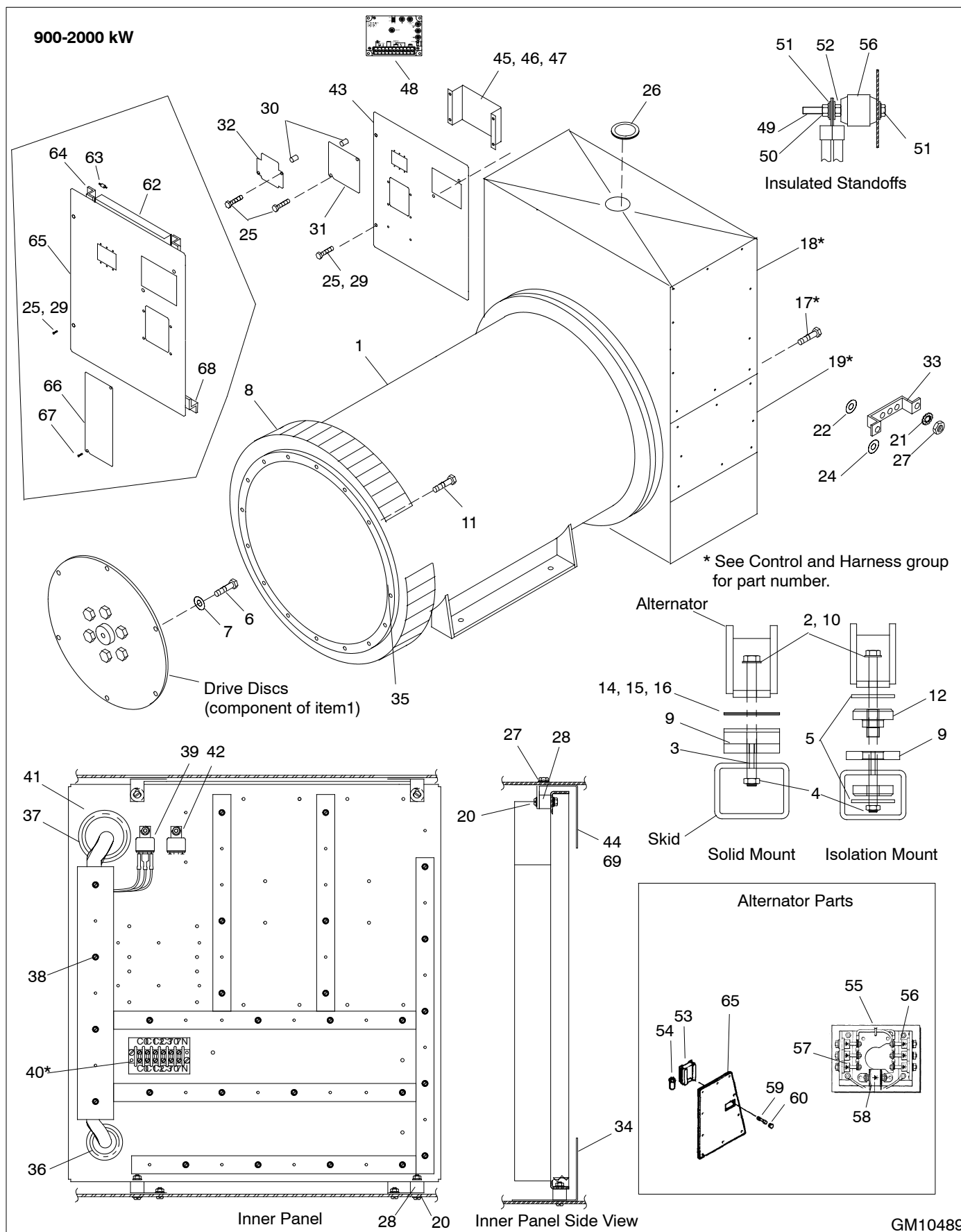
† Module uses vibration isolation door-mounted components items 62-69 on following page.

Alternator Part Number and Mount Type

Use this table to identify the module number's alternator part number (item 1) and mount type.

Module Number	Alternator Part Number	Mount Type
GM10443-MA1	A-361758	Isolation
GM10443-MA2	A-361762	Isolation
GM10443-MA3	A-361758	Solid
GM10443-MA4	A-361762	Solid
GM10443-MA5	A-361765	Isolation
GM10443-MA6	A-361765	Solid
GM10443-MA7	GM10490	Isolation
GM10443-MA8	GM10490	Solid
GM10443-MA9	A-361763	Isolation
GM10443-MA10	A-361763	Solid
GM10443-MA11	A-361764	Isolation
GM10443-MA12	A-361764	Solid
GM10443-MA13	GM10549	Isolation
GM10443-MA14	GM10549	Solid
GM10443-MA15	GM10550	Isolation
GM10443-MA16	GM10550	Solid
GM10443-MA17	GM10551	Isolation
GM10443-MA18	GM10551	Solid
GM17024-MA1†	A-361758	Isolation
GM17024-MA2†	A-361758	Solid
GM17024-MA3†	A-361762	Isolation
GM17024-MA4†	A-361762	Solid
GM17024-MA5†	A-361765	Isolation
GM17024-MA6†	A-361765	Solid
GM17024-MA7†	GM10490	Isolation
GM17024-MA8†	GM10490	Solid
GM17024-MA9†	A-361763	Isolation
GM17024-MA10†	A-361763	Solid
GM17024-MA11†	GM10549	Isolation
GM17024-MA12†	GM10549	Solid
GM17024-MA13†	A-361764	Isolation
GM17024-MA14†	A-361764	Solid
GM17024-MA15†	GM10550	Isolation
GM17024-MA16†	GM10550	Solid
GM17024-MA17†	GM10551	Isolation
GM17024-MA18†	GM10551	Solid
GM16900-MA1†	F-361007	Solid
GM16900-MA2†	F-361008	Solid
GM16900-MA3†	F-361011	Solid
GM16900-MA4†	F-361014	Solid
GM16900-MA5†	F-361018	Solid
GM16900-MA6†	B-361005	Solid
GM16900-MA7†	B-361006	Solid
GM16900-MA8†	B-361010	Solid
GM16900-MA9†	B-361013	Solid
GM16900-MA10†	F-361016	Solid
GM16900-MA11†	F-361017	Solid
GM16900-MA12†	A-361003	Solid
GM16900-MA13†	B-361004	Solid
GM16900-MA14†	B-361009	Solid
GM16900-MA15†	B-361012	Solid
GM16900-MA16†	B-361015	Solid
GM16900-MA17†	GM41656	Solid
GM16900-MA18†	GM47964	Solid
GM31617-MA1†	A-361758	Isolation
GM31617-MA2†	A-361758	Solid
GM31617-MA3†	A-361762	Isolation
GM31617-MA4†	A-361762	Solid
GM31617-MA5†	A-361765	Isolation
GM31617-MA6†	A-361765	Solid
GM31617-MA7†	GM10490	Isolation
GM31617-MA8†	GM10490	Solid
GM31617-MA9†	A-361763	Isolation
GM31617-MA10†	A-361763	Solid
GM31617-MA11†	GM10549	Isolation
GM31617-MA12†	GM10549	Solid
GM31617-MA13†	A-361764	Isolation
GM31617-MA14†	A-361764	Solid
GM31617-MA15†	GM10550	Isolation
GM31617-MA16†	GM10550	Solid
GM31617-MA17†	GM10551	Isolation
GM31617-MA18†	GM10551	Solid

Group 201: Alternator and Mounting, continued



Group 201: Alternator and Mounting, continued

900-2000 kW

Item	Part Number	Description	Qty.
45	See chart below	Bracket, gov. mounting	1
46	See chart below	Vibromount	4
47	See chart below	Washer, lock, .172 ID x .373 in. OD	8
48	See chart below	Controller, governor	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 mounting, bottom	1
69	GM15336	Bracket, inner panel mounting	1

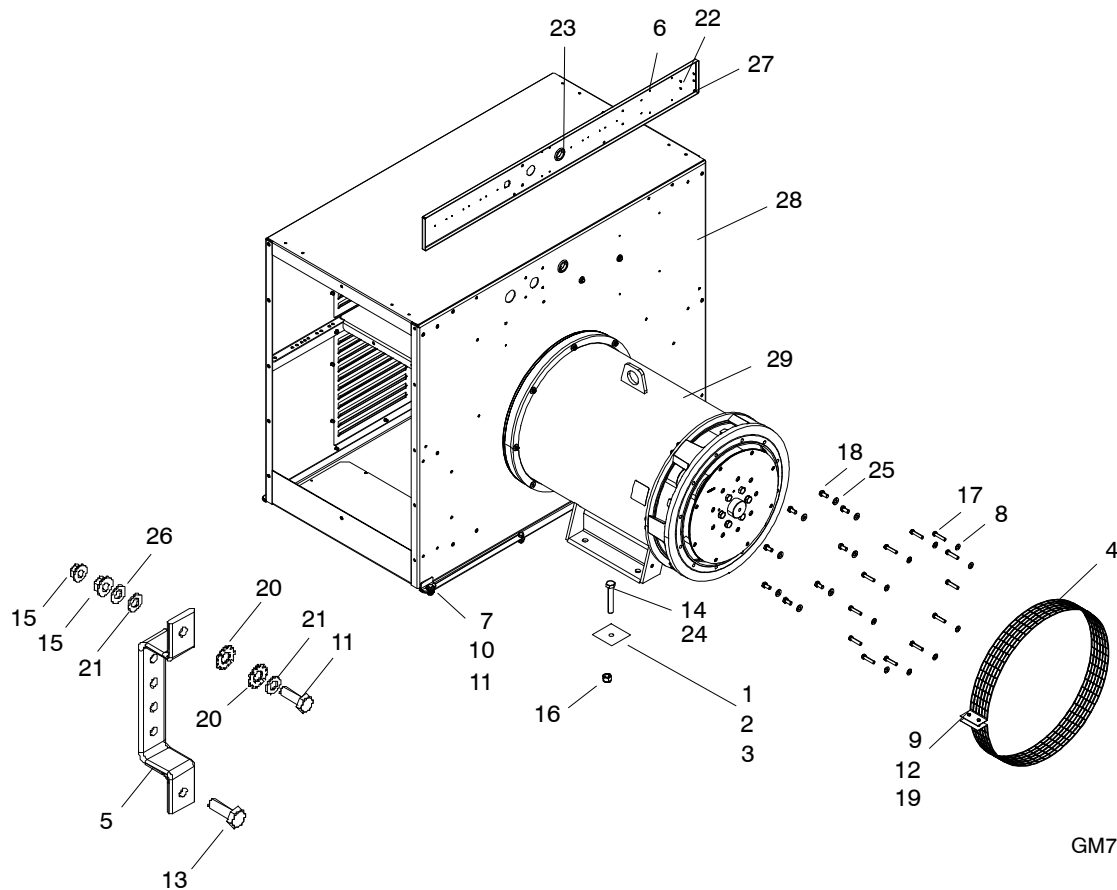
Governor Part Number

Use the alternator module number and this table to identify the module number's governor part numbers.

Alternator Module Number	kW	Item 45, Bracket	Item 46, Vibromount	Item 47, Lock Washer	Item 48, Governor Controller
GM10443-xxx	900/1000	GM10429	282829	X-22-18	347841
GM17024-xxx	900/1000	GM10429	282829	X-22-18	347841
GM16900-xxx	1250-2000	Items 45, 46, and 47 are shown in Control and Harness Group.			Governor Controller number varies by engine model.
GM31617-xxx	900/1000	Items 45, 46, and 47 are shown in Control and Harness Group.			See engine parts catalog for part number. Engine parts catalog numbers are listed in Group 701: Literature.

Group 201: Alternator and Mounting, continued

GM79361-



GM79361-

Item	Part No.	Description	Qty.
1	290743	Shim	AR
2	290744	Shimjh	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.

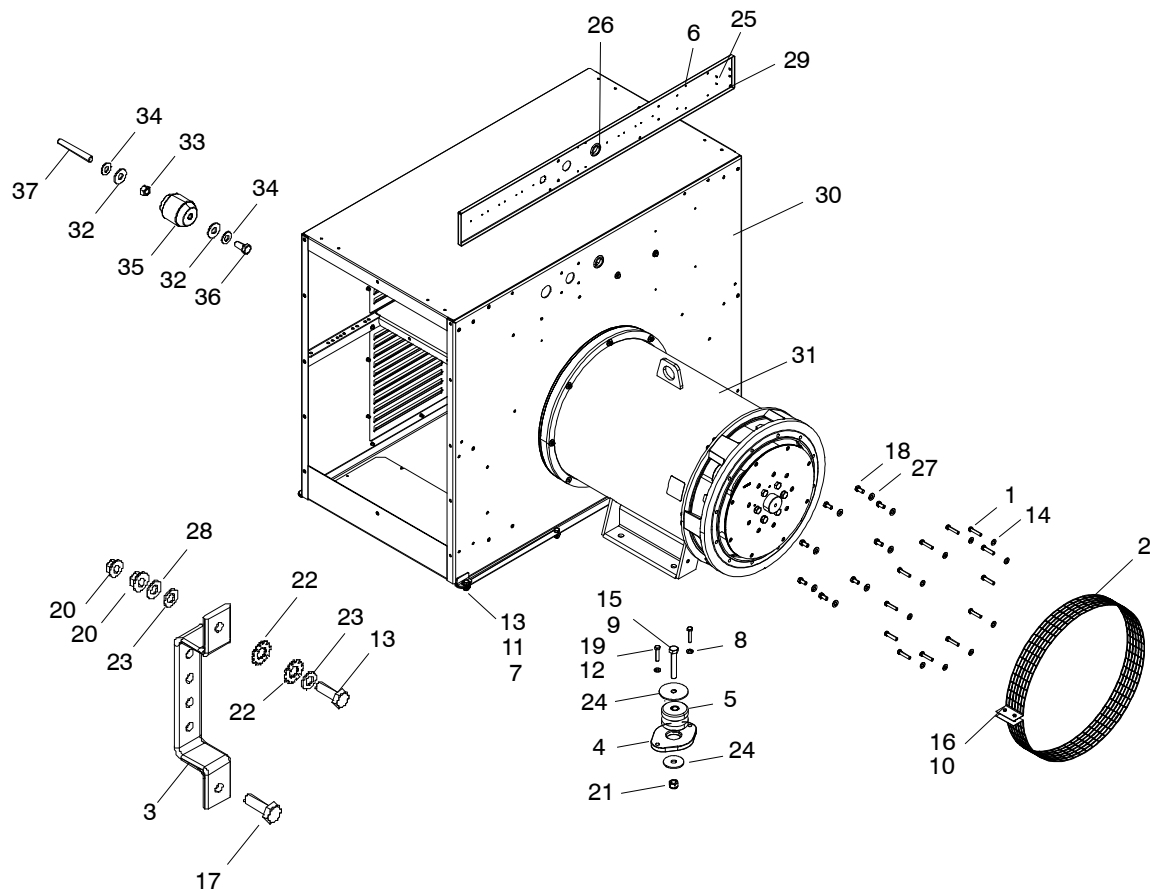
Module No.	Alternator Description	Item 28, Junction Box Assembly	Item 29, Alternator Assembly
GM79361-MA1	7M4046	GM75930-2**	GM77510-1
GM79361-MA2	7M4048	GM75930-3**	GM77510-2
GM79361-MA3	7M4050	GM75930-3**	GM77510-3
GM79361-MA4	7M4172	GM75930-3**	GM77510-4
GM79361-MA5	7M4366	GM75930-3**	GM77510-5
GM79361-MA6	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

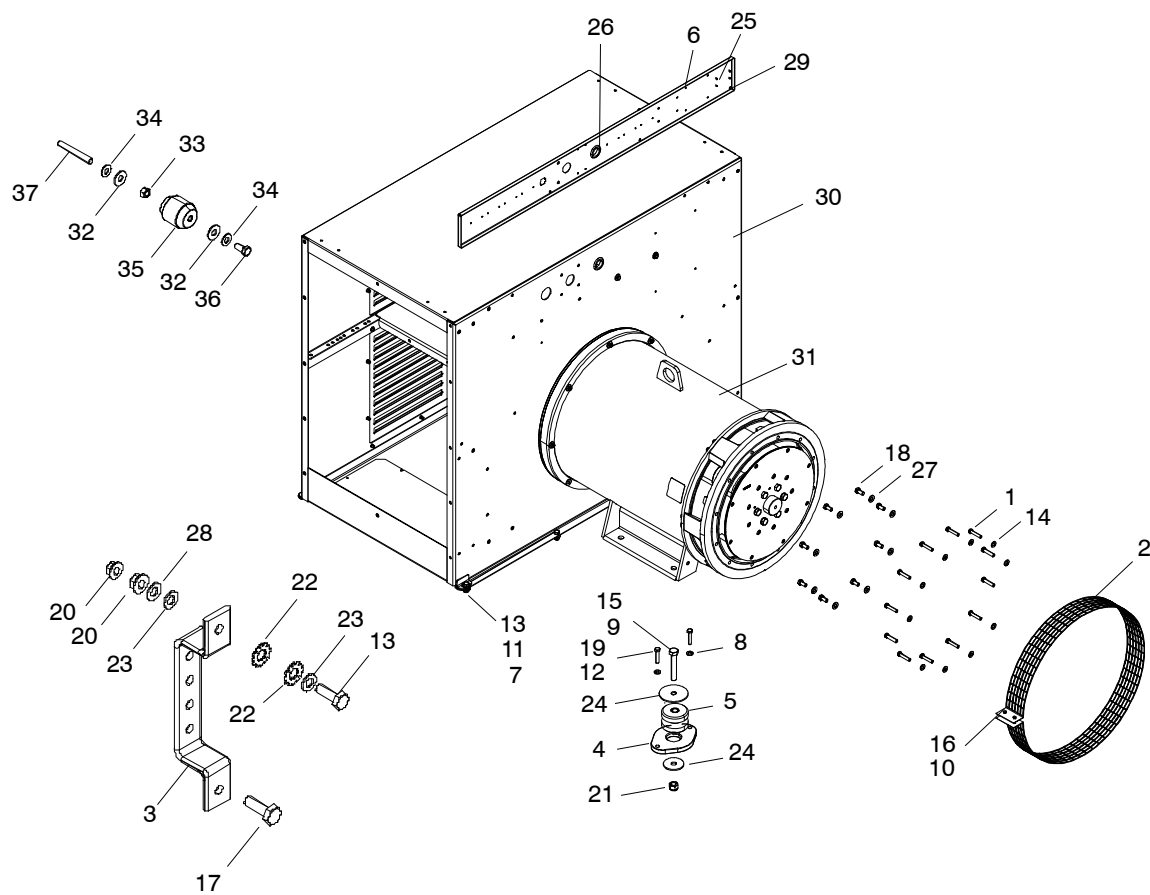
Item	Part Number	Description	Quantity		
			Module		
			GM80796-MA1	GM80796-MA2	GM80796-MA3
1	290945	Washer, hardened, .531 IDx1.06 in.OD	16	16	16
2	328903	Screen	1	1	1
3	361271	Bus, ground	1	1	1
4	361733	Plate, generator mounting	4	4	4
5	361734	Vibromount	4	4	4
6	GM75910	Panel, Component Mtg.	1	1	1
7	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-MA2-BLK	-BLK	GM75930-2-BLK

Group 201: Alternator and Mounting, continued

GM81167-



GM81167-

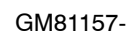
Group 201: Alternator and Mounting, continued

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-



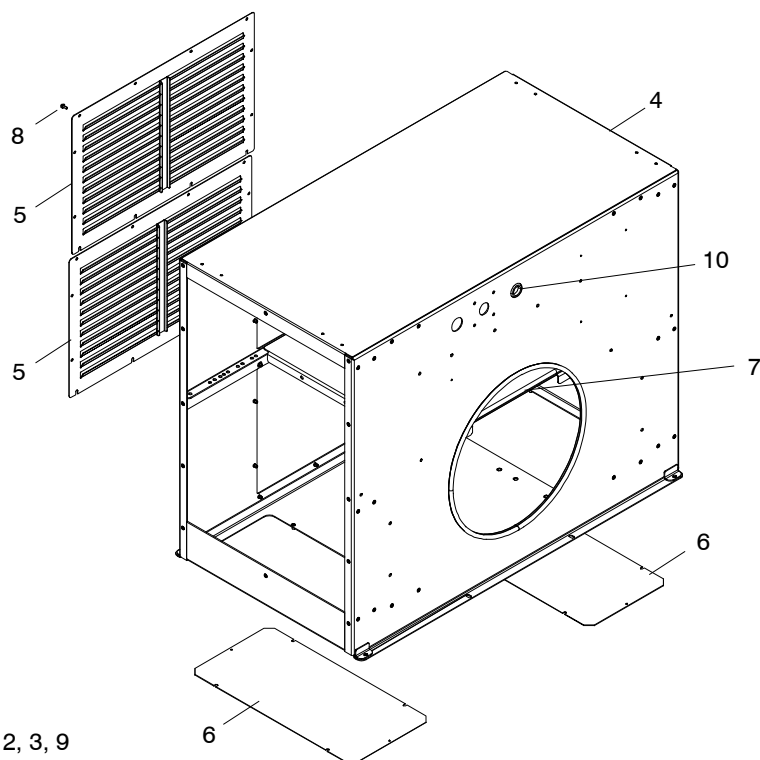
Group 201: Alternator and Mounting, continued

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	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
31	GM77507-4	Alternator Assy, 5M4036	1								
31	GM77507-5	Alternator Assy, 5M4038		1							
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
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-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: 2, 3, 9

GM75930-D

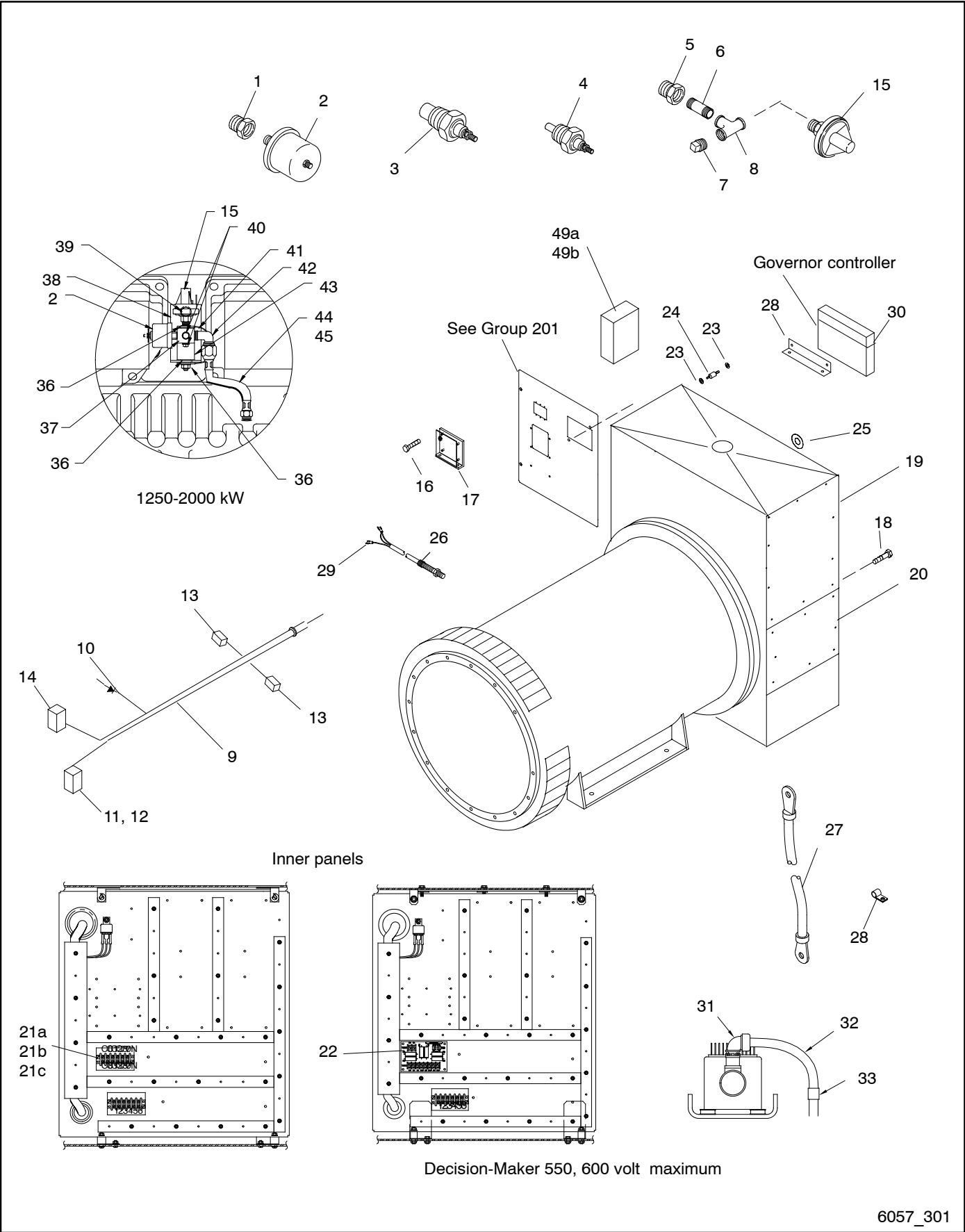
Item	Part Number	Description	Quantity		
			Module Number		
			GM75930-1	GM75930-2	GM75930-3
2	361567	Base, tie wrap snapin	5	5	5
3	GM11040-7	Insert, Threaded (M6 x 1.0 Hex)	76	76	76
4	GM75889**	Box, Junction (4M)	1		
4	GM75890**	Box, Junction (5M)		1	
4	GM75891**	Box, Junction (7M)			1
5	GM75892	Panel, 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

Notes

Control and Harness



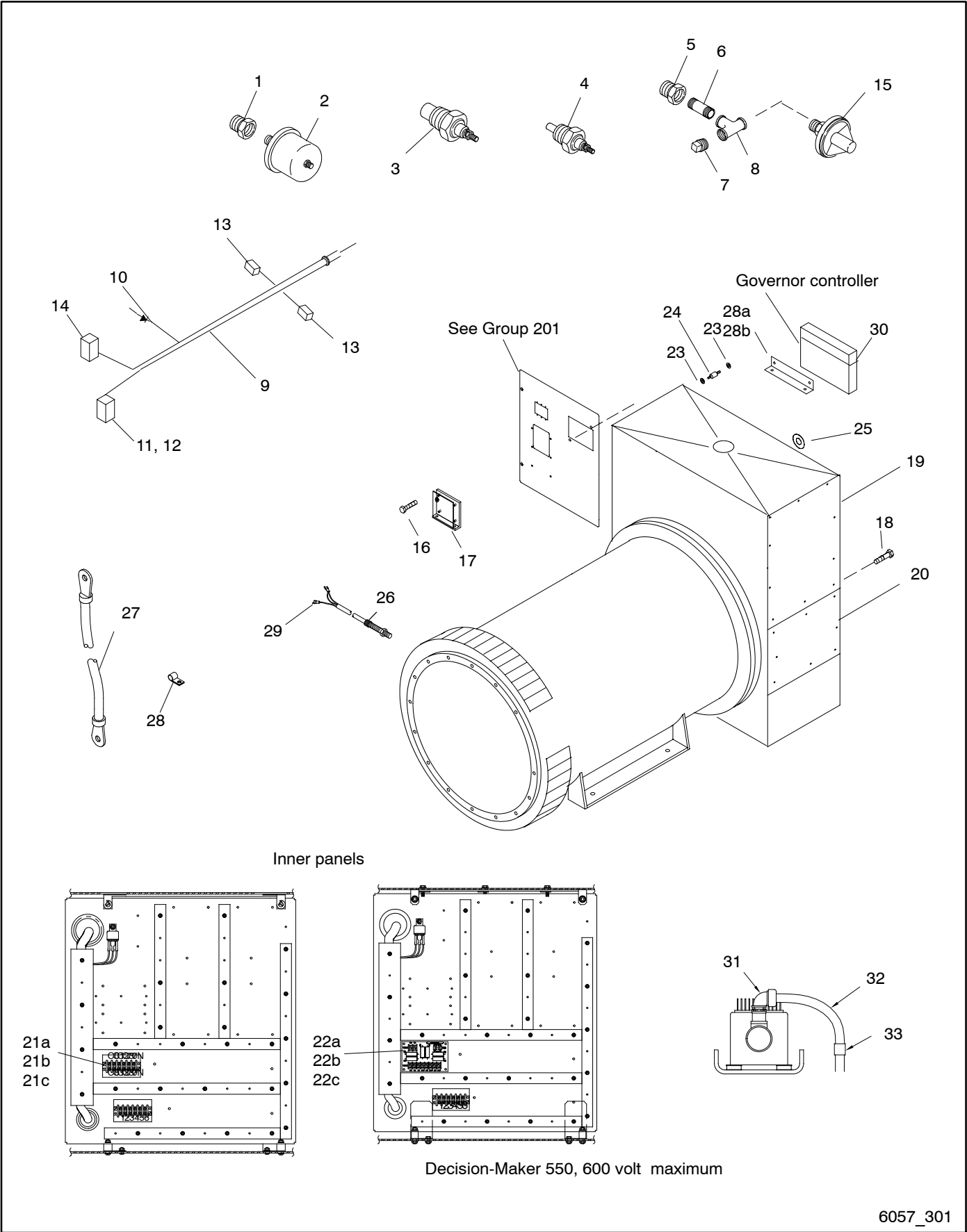
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Control and Harness

Item	Part Number	Description	Quantity											Generator Set Spec Number*											
			Module									GM13277-GA1	PA-111001	PA-111202	PA-111203	PA-111004									
			GM16967-MA1	GM31503-MA1	GM31503-MA2	GM16968-MA1	GM16933-MA1	GM16933-MA2	GM16968-MA2	GM30662-MA1	GM31736-MA1														
1	GM10576	Adapter bushing																							
1	267428	Fitting, 45 deg. street elbow	1	1	1	1					1		2												
1	X-555-2	Elbow, street (90 deg. x 1/8 in.)																							
1	GM12035	Adapter bushing	1									1	1	1											
2	343474	Sender, oil pressure	1	1	1	2	1	1	2	1	1	1	1	1	1	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	268298	Sender, water temperature	1				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	GM12035	Adapter bushing	1																						
5	GM12576	Adapter bushing					1				1										1	1	1	1	1
6	X-217-6	Nipple, pipe, 1/8 x 3/4 in.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	X-75-1	Plug, pipe 1/8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	X-203-16	Fitting, tee, 1/8 x 1/8 x 1/8 in., pipe	1	1	1	1	1	1	1	1	1										1	1	1	1	1
8	164037	Cross pipe, 1/8 in.																							
9	GM10613	Harness, engine					1				1										1	1	1	1	1
9	GM12551	Harness, engine	1																		1				
9	GM30614	Harness, engine											1												
9	GM31234	Harness, engine		1	1																				
9	GM31853	Harness, engine																							
9	GM16935	Harness, engine																							
10	233959	Diode, 6 A	4	7	7	5	7	7	5	5	7	4	5	5	5	5	5	5	5	5	5	5	5	5	5
11	292800	Connector, cable	1	1	1	1	1	1	1	1	1	1	1	1	1	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	1	1	1	1	1	1	1	1	1	1	1	1	1
13	GM11422	Connector	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
14	GM11423	Connector	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	GM10574	Switch, pressure, LOP	1	1	1	1																			
15	GM10575	Switch, pressure																							
18	X-6217-10	Screw, hex flange machine	22	22	24	22	28	28	24	28	12	22	24	24	24	24	24	24	24	24	24	24	24	24	24
19	361184	Panel, junction box, front	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	361826	Panel, junction box (5M and 7M4046 alt.)	1	1																					
20	328901	Panel, junction box (7M alt. except 7M4046)			1		1	1	1	1															
21a	X-49-6	Screw, cross recess	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
21c	255080	Marker, strip	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21c	295314	Terminal block	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	X-22-11	Washer, lock		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														
26	-	Pickup, mag. (supplied with engine)		1	1																				
27	X-545-149	Cable, battery					1	1																	
28	GM30658	Bracket, governor mounting		3	3		3	3		3	3														
28	GM46823	Bracket, Gov. Mounting		1	1		1	1		1	1														
29	X-431-29	Terminal		2	2																				
30	GM46824	Cover, Governor		1	1		1	1		1	1														
31	X-6027-5	Connector, conduit		1			1																		
32	X-6026-30	Conduit, flexible		1			1																		
33	GM51521	Conduit, inner sleeve		1			1																		
36	X-22-12	Washer, lock, 0.262 ID x 0.743 in. OD					3	3																	
37	267548	Block, oil gauge					1	1																	
38	GM35184	Bracket, sender					1	1																	
39	X-22-26	Washer, lock, 0.521 ID x 1.24 in. OD					1	1																	
40	X-75-4	Plug, pipe, 1/8 in. NPT					2	2																	
41	223033	Strap, ground, 5 in.					1	1																	
42	X-447-10	Elbow, male tube, 90°					1	1																	
43	259632	Bumper					1	1																	
44	270727	Fuel line, flexible					1	1																	
45	GM12035	Adapter, bushing					1	1																	
49a	GM24876-S	Regulator, Voltage (Digital)		1	1		1	1																	
49b	GM66039	Screw, Plastic Tapping, 6-19 x 0.625		6	6		6	6																	

*This table lists parts for control and harness modules and generator set spec numbers. Your generator set uses a control and harness module number if the generator set spec number is not listed in this table heading.

Control and Harness, continued



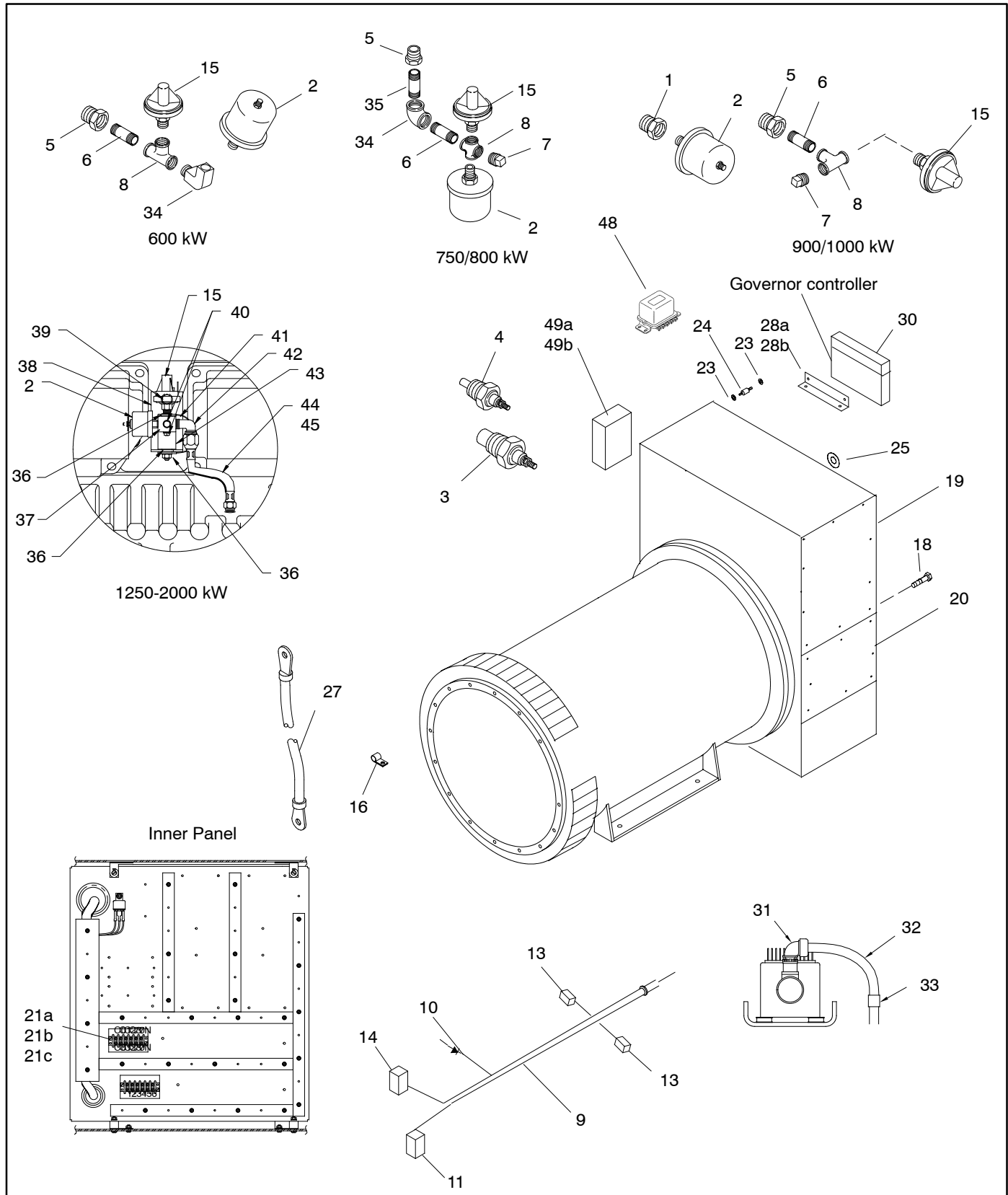
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Control and Harness, continued

Item	Part Number	Description	Quantity Module										
			GM16972-MA1	GM31504-MA1	GM31504-MA2	GM16973-MA1	GM16973-MA2	GM17232-MA1	GM17232-MA2	GM30663-MA1	GM30952-MA1	GM30952-MA2	GM31851-MA1
1	GM10576	Adapter bushing		1	1	1	1						
1	267428	Fitting, 45 deg. street elbow	1							1			
1	X-555-2	Fitting, elbow, 1/8 x 1/8 in., street		1	1	1	1						1
1	GM12035	Adapter bushing	1					1	1				
2	GM70917-1	Sender, Pressure, 0~150psi, 1/8~27	1	1	1	1	1	1	1	1	1	1	1
4	GM31990	Kit, temperature sensor	1	1	1	1	1	1	1	1	1	1	1
5	GM12035	Adapter bushing								1	1	1	1
9	GM15495	Harness, engine	1										
9	GM15496	Harness, engine				1	1						
9	GM17434	Harness, engine						1	1		1	1	
9	GM30679	Harness, engine								1			
9	GM31853	Harness, engine											1
9	GM46930	Harness, 5 ft.						1	1		1	1	
10	233959	Diode, 6 A	5	7	7	7	7	7	7	7	7	7	7
11	292800	Connector, cable	1			1	1	1	1	1	1	1	1
12	295145	Connector, 24-position	1	1	1	1	1	1	1	1	1	1	1
13	GM11422	Connector	2	1	1	3	3	3	3	1	3	3	3
14	GM11423	Connector	1	1	1	1	1	1	1	1	1	1	
16	M965A-06012-20	Screw, pan head machine	4	4	4	4	4	4	4	4	4	4	4
17	GM11718	PCB assy., Marathon excitation inter.	1	1	1	1	1	1	1	1	1	1	1
18	X-6217-10	Screw, hex flange machine	22	22	24	22	24	24	24	28	24	24	12
19	361184	Panel, junction box, front	1	1	1	1	1	1	1	1	1	1	1
20	361826	Panel, junction box (5M and 7M4046 alt.)	1	1		1				1			1
20	328901	Panel, junction box (7M alt. except 7M4046)			1		1	1			1	1	
21a	X-49-6	Screw, cross recess							2			2	
21b	254127	Marker, strip							1			1	
21c	X-405-2	Terminal block							1			1	
22a	GM13980	PCB assembly, CT burden resistor	1	1	1	1	1	1		1	1		1
22b	X-70-12	Nut, hex machine screw, 8-32	4	4	4	4	4	4		4	4		4
22c	X-712-9	Spacer, .25 OD, .5 in.	4	4	4	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	-	Pickup, mag. (supplied with engine)						1	1				
26	255749	Pickup, magnetic						1	1				
27	X-545-149	Cable, battery						1	1		1	1	
28a	GM30658	Bracket, governor mounting		3	3					3	3	3	3
28b	GM46823	Bracket, Gov. Mounting		1	1					1	1	1	1
29	X-431-29	Terminal		2	2								2
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

Control and Harness, continued

3+ Controller



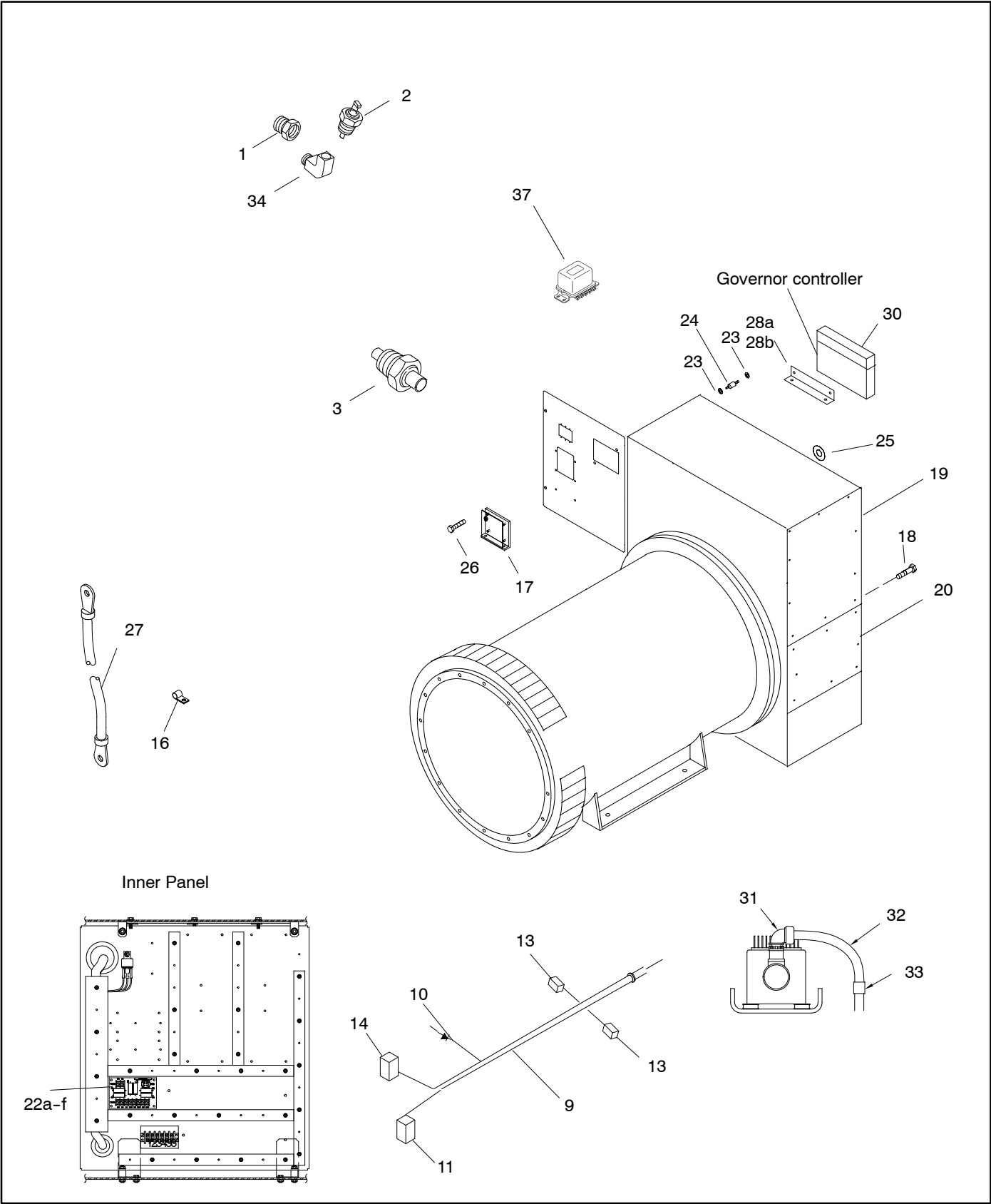
Control and Harness, continued

3+ Controller

Item	Part Number	Description	Quantity					
			Module					
			GM74827-MA1	GM74828-MA1	GM74830-MA1	GM74830-MA2	GM74832-MA1	GM74832-MA2
1	GM10576	Adapter bushing			1	1		
2	343474	Sender, oil pressure	1	1	1	1	1	1
3	241481	Switch, high temperature shutoff	1	1	1	1	1	1
4	268298	Sender, water temperature	1	1	1	1	1	1
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	GM74813	Harness, Eng Mits T1 600kW Dec 3+	1					
9	GM74814	Harness, Eng Mits 750-800kW Dec3+		1				
9	GM74816	Harness, Eng Mits T1 900-1000kW Dec3+			1	1		
9	GM74818	Harness, Eng Mits T1 1250-1600kW Dec3+					1	1
10	233959	Diode, 6 A	5	3	7	7	7	7
11	295145	Connector, 24-position	1	1	1	1	1	1
13	GM11422	Connector	1	2	2	2	2	2
14	GM11423	Connector	1		1	1	1	1
15	GM10574	Switch, pressure, LOP	1	1	1	1		
15	GM10575	Switch, pressure					1	1
16	X-672-31	Clamp, insulated, 0.75 in.					1	1
18	X-6217-10	Screw, hex flange machine	28	12	22	24	38	38
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
21a	X-49-6	Screw, cross recess	2	2	2	2	2	2
21b	255080	Marker, strip	1	1	1	1	1	1
21c	295314	Terminal block	1	1	1	1	1	1
23	X-22-11	Washer, lock	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
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
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
37	267548	Block, oil gauge					1	1
38	GM35184	Bracket, sender					1	1
39	X-22-26	Washer, lock, 0.521 ID x 1.24 in. OD					1	1
40	X-75-4	Plug, pipe, 1/8 in. NPT					2	2
41	223033	Strap, ground, 5 in.					1	1
42	X-447-10	Elbow, male tube, 90°					1	1
43	259632	Bumper					1	1
44	270727	Fuel line, flexible					1	1
45	GM12035	Adapter, bushing					1	1
48	GM74810	Chattering Relay (supplied with engine)	1					
48	GM74811	Synchronizing Relay (supplied with engine)		1	1	1	1	1
49a	GM24876-S	Regulator, Voltage (Digital)	1	1	1	1	1	1
49b	GM66039	Screw, Plastic Tapping, 6-19 x 0.625	6	6	6	6	6	6

Control and Harness, continued

550/6000 Controller



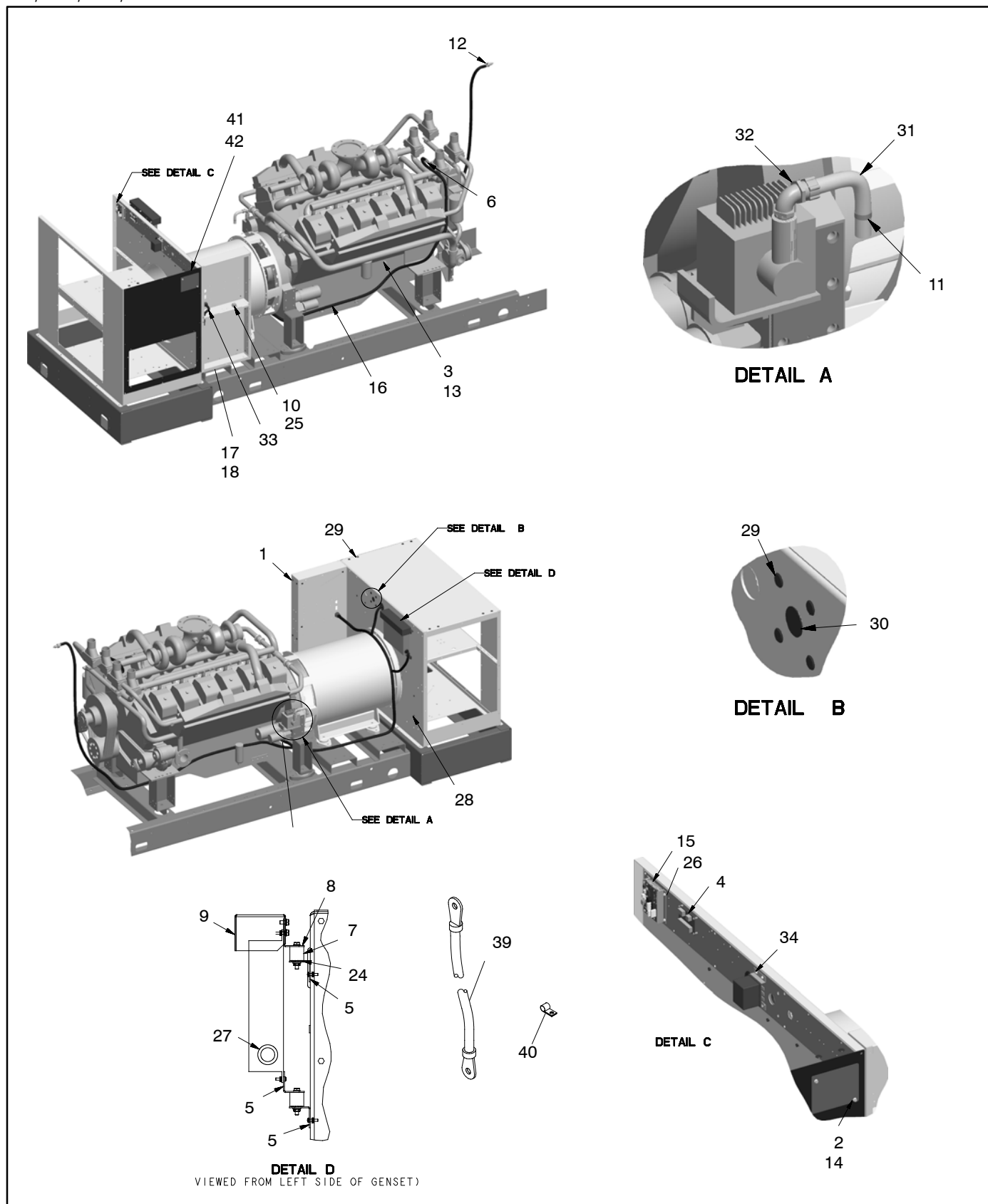
Control and Harness, continued

550/6000 Controller

Item	Part Number	Description	Quantity					
			Module					
			GM74836-MA1	GM74837-MA1	GM74839-MA1	GM74839-MA2	GM74840-MA1	GM74840-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
9	GM74820	Harness, Eng Mits T1 600kW DEC550/6000	1					
9	GM74821	Harness, Eng Mits 750-800kW DEC550/6000		1				
9	GM74823	Harness, Eng MitsT1 900-1000kW DEC550/6000			1	1		
9	GM74825	Harness, EngMitsT1 1250-2000kW DEC550/6000					1	1
9	GM46930	Harness					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	8	8
24	229353	Vibromount	4	4	4	4	4	4
25	X-284-3	Grommet, round	2	2	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
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
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

Control and Harness, continued

550/3000/6000/APM402 Controller



Control and Harness, continued

550/3000/6000/APM402 Controller

Item	Part Number	Description	Quantity									
			Module									
			GM80794-MA1	GM80794-MA2	GM80795-MA1	GM81154-MA1	GM81154-MA2	GM81155-MA1	GM79363-MA1	GM79363-MA2	GM79363-MA3	GM81545-MA1
1	324861	Coupling, black plastic	12	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	2	2	2	4
3	GM12035	Adapter bushing	1	1	1	1	1	1	1	1	1	1
4	GM13980	PCB assy., CT burden resistor	1	1	1	1	1	1	1	1		1
5	GM30658	Bracket, governor mounting	3	3	3	3	3	3	3	3	3	
6	GM31990	Kit, Temperature Sensor	1	1		1	1		1	1	1	
6	GM39458	Sender, Temperature			1			1				1
7	GM38784-3	Vibromount	4	4	4	4	4	4	4	4	4	
8	GM46823	Bracket, governor mounting	1	1	1	1	1	1	1	1	1	
9	GM46824	Cover, governor	1	1	1	1	1	1	1	1	1	
10	GM49747	Relay, 24V DC	1	1	1	1	1	1	1	1	1	2
11	GM51521	Conduit, inner sleeve	1	1	1	1	1	1	1	1	1	
12	GM66270	Sensor, Low Coolant Level	1	1	1	1	1	1				1
13	GM70917-1	Sender, Pressure, 0-150psi, 1/8-27 NPTF	1	1		1	1		1	1	1	
13	GM102100	Sender, oil pressure			1			1				1
14	GM77908**	Cover, Diagnostic	1	1	1	1	1	1	1	1	1	
14	GM77909	Cover, Diagnostic										1
15	GM79677	Board, Assy Marathon Interface	1	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	GM81326	Harness, Engine 900/1000 kW Mitsubishi				1	1					
16	GM81328	Harness, Engine 900/1000 kW Mitsubishi						1				
16	GM81603	Harness, Engine 900/1000 kW Mitsubishi APM402										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	4	4	4	4	4	4	8	8	8	
25	X-67-155	Screw, Tapping	1	1	1	1	1	1	1	1	1	2
26	X-67-156	Screw, Tapping	8	8	8							
26	X-67-59	Screw, Tapping				8	8	8				8
26	GM38784-1	Vibromount							4	4	4	
27	X-284-3	Grommet, round	1	1	1	1	1	1	1	1	1	
28	X-301-34	Plug, Button	7	7	7	7	7	7	7	7	7	7
29	X-301-47	Plug, Button	12	12	12	12	12	12	12	12	12	10
30	X-301-48	Plug, Button	1	1	1	1	1	1	1	1	1	1
31	X-6026-30	Conduit, flexible	1	1	1	1	1	1	1	1	1	
32	X-6027-5	Connector, conduit	1	1	1	1	1	1	1	1	1	
33	GM79393	Harness, Control Box, DEC550	1			1			1		1	
33	GM79394	Harness, Control Box, DEC6000		1			1			1		
33	GM81317	Harness, Control Box, DEC3000			1			1				
33	GM81607	Harness, Control Box, DEC3000										1
33	GM77978	Harness, A/C Control Box										1
34	GM74810	Chattering Relay (supplied with engine)										
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
42	GM81747	Harness, Diagnostic Mits										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
GM81154-MA1-KCB	-KCB	GM77908-KCB
GM81154-MA2-KCB	-KCB	GM77908-KCB
GM81155-MA1-KCB	-KCB	GM77908-KCB

Group 701: Literature

Item	Part Number	Description	Quantity											
			Variation Number											
			147	149	156	161	195	196	197	198	202	203	169	205
1	TP-5583	S/M 350-2800 kW	1	1	1	1	1	1	1	1	1	1	1	1
2	TP-5700	I/M 20-3250kW, Industrial	1	1	1	1	1	1	1	1	1	1	1	1
4	TP-5750	O/M 20-2000 kW	1	1	1			1	1	1	1	1	1	1
5	TP-5829	O/M Decision-Maker 340 Controller	1	1	1	1								
5	TP-6083	O/M Decision-Maker 550 Cont. Before V2.10	1	1	1	1								
5	TP-6200	O/M Decision-Maker 550 Controller V 2.10	1	1	1	1	1	1	1	1	1	1	1	1
5	TP-6140	O/I/M Controller Setup & App. Dec.-Maker 550	1	1	1	1	1	1	1	1	1	1	1	1
6	TP-6009	P/C Controllers	1	1	1	1	1	1	1	1	1	1	1	1
7	TP-6057	P/C 600-2000ROZM, 600-2000REOZM	1	1	1	1	1	1	1	1	1	1	1	1
8	TP-6058	W/D 600-2000ROZM, Industrial	1	1	1	1	1	1	1	1				
8	TP-6289	W/D 600-2000REOZM, Industrial									1	1	1	1
9	TP-6094	O/M Mitsubishi S6R/S6R2, 600 kW			1									
9	TP-6063	O/M Mitsubishi S12H	1	1										
9	TP-6132	O/M Mitsubishi S16R, 2000 kW				1	1							
9	TP-6548	O/M MHI 1820/2000REOZM					1							1
9	TP-6543	O/M MHI 600REOZM						1						
9	TP-6545	O/M MHI 900/1000REOZM							1	1				
9	TP-6544	O/M MHI 750/800REOZM									1	1		
9	TP-6547	O/M MHI 1600REOZM											1	
10	TP-6064	P/C Mitsubishi S12H, 900/1000 kW	1	1										
10	TP-6089	P/C Mitsubishi S6R, 600 kW			1									
10	TP-6131	P/C Mitsubishi S16R, 2000 kW				1								
10	TP-6259	P/C Kohler D2000 Engine (2000REOZM)					1						1	1
10	TP-6257	P/C Kohler D600 Engine (600REOZM)						1						
10	TP-6258	P/C Kohler D1000 Engine (900/1000REOZM)							1	1				
10	TP-6282	P/C Kohler D850 Engine (750-800REOZM)									1	1		
11	TP-6065	S/M Mitsubishi S12H	1	1										
11	TP-6095	S/M Mitsubishi S6R/S6R2, 600 kW			1									
11	TP-6133	S/M Mitsubishi S16R, 2000 kW				1								
11	TP-6528	S/M MHI 1820-2000REOZM					1							1
11	TP-6523	S/M MHI 600REOZM						1						
11	TP-6525	S/M MHI 900-1000REOZM							1	1				
11	TP-6524	S/M MHI 750-800REOZM									1	1		
11	TP-6527	S/M MHI 1600REOZM											1	
12	TP-5578	O/I/S/M Marathon alternator MagnaMAX DVR	1	1	1	1	1	1	1	1	1	1	1	1
13	TP-6199	O/I/S/M Marathon voltage regulator DVR2000E	1	1	1	1	1	1	1	1	1	1	1	1

Group 701: Literature, continued

Item	Part Number	Description	Quantity							
			Variation Number							
			283	284	285	286	292	293	294	295
1	TP-5374	Warranty 1-Year Limited, Industrial	1	1	1	1	1	1	1	1
2	TP-5578	O/I/S/M Marathon Altntr MmaxDVR (GPN008)	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-6057	P/C 600-2000ROZM, 600-2000REOZM, Ind	1	1	1	1	1	1	1	1
5	TP-6140	O/I/M Cntrlr Setup & Appl, DecMaker550	1	1	1	1	1	1	1	1
6	TP-6200	O/M 20-3250 kW, DecMaker550, Ver 2.10+	1	1	1	1	1	1	1	1
7	TP-6283	P/C Kohler D1250 Engine, 1250REOZM(B)	1							
7	TP-6259	P/C Kohler D1600-D2000, 1600-2000REOZM(B)		1	1	1				
7	TP-6282	P/C D750/D800 Engine, 750/800REOZM(B)					1	1		
7	TP-6258	P/C Kohler D1000 37.1A, 900/1000REOZM(B)							1	1
8	TP-6330	O/I/M Woodward ProAct I/II Governor	1	1	1	1	1	1	1	1
9	TP-6356	S/M Controllers, 20-3250 kW, Ind.	1	1	1	1	1	1	1	1
10	TP-6373	S/M Pilot-Excited PM Altntr, 300-3250kW	1	1	1	1	1	1	1	1
11	TP-6526	S/M MHI 1250REOZM, (99246-A0100)	1							
11	TP-6527	S/M MHI 1600REOZM, (99406-A0110)		1						
11	TP-6528	S/M MHI 1820-2000REOZM, (99406-A1100)			1	1				
11	TP-6524	S/M MHI 750-800REOZM, (99266-A0100)					1	1		
11	TP-6525	S/M MHI 900-1000REOZM, (99266-A1100)							1	1
12	TP-6546	O/M MHI 1250REOZM, (99245-A0100)	1							
12	TP-6547	O/M MHI 1600REOZM, (99405-A0110)		1						
12	TP-6548	O/M MHI 1820/2000REOZM, (99405-A1100)			1	1				
12	TP-6544	O/M MHI 750/800REOZM (99265-A0100A)					1	1		
12	TP-6545	O/M MHI 900/1000REOZM, (99265-A1110)							1	1
13	TP-6746	P/C DEC6000 AND DPS System	1	1	1	1	1	1	1	1
14	TP-6750	O/M DEC 6000 Controller	1	1	1	1	1	1	1	1
15	TP-6747	O/I/M DPS System Installation and Setup	1	1	1	1	1	1	1	1
16	TP-6780	P/C DEC 550 Controller (J-Box Panel Mt)	1	1	1	1	1	1	1	1
17	TP-6813	W/D 750-2000ROZMC/750-2000REOZMD	1	1	1	1	1	1	1	1
18	TP-6694	O/M APM402/DEC3000 Controller					1	1	1	1
19	TP-6781	P/C APM402/DEC 3000 Controller					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			
Remote radiator	GM13541-MA1	GM31732-MA1	GM10977-MA1
Remote radiator flex kit	—	GM10976-KP1	GM10976-KP1
Heater, block			
240 V	—	—	GM10699-KA4
380 V	—	—	GM10699-KA3
480 V	—	—	GM10699-KA2
Heater, block including isolation valves		(Obsolete CSS Style)	
208 V, 1-Phase	GM21100-KA1	GM31788-KA6	GM19409-KA6
240 V, 1-Phase	GM21100-KA2	GM31788-KA2	GM19409-KA1
240 V, 3-Phase	—	GM31788-KA4	GM19409-KA3
380 V, 3-Phase	—	GM31788-KA5	GM19409-KA4
480 V, 1-Phase	GM21100-KA3	GM31788-KA3	GM19409-KA2
480 V, 3-Phase	—	GM31788-KA1	GM19409-KA5
Heater, block including isolation valves		(CSM Style)	
208 V, 1-Phase		GM64394-KA6	GM64396-KA6
240 V, 1-Phase		GM64394-KA2	GM64396-KA1
240 V, 3-Phase		GM64394-KA4	GM64396-KA3
380 V, 3-Phase		GM64394-KA5	GM64396-KA4
480 V, 1-Phase		GM64394-KA3	GM64396-KA2
480 V, 3-Phase		GM64394-KA1	GM64396-KA5
Block heater isolation valves	GM12529-KA1	—	PA-365308
Duct flange, radiator	365204	—	GM10991-KA1

	1250 kW	1600–2000 kW
Cooling Systems		
Remote radiator	GM20152-MA1	—
Remote radiator flex kit	—	—
Heater, block		
240 V	—	—
380 V	—	—
480 V	—	—
Heater, block including isolation valves (Obsolete CSS Style)		
208 V, 1-Phase	GM17215-KA12	GM17215-KA11
240 V, 1-Phase	GM17215-KA6	GM17215-KA1
240 V, 3-Phase	GM17215-KA7	GM17215-KA2
380 V, 3-Phase	GM17215-KA8	GM17215-KA3
480 V, 1-Phase	GM17215-KA10	GM17215-KA5
480 V, 3-Phase	GM17215-KA9	GM17215-KA4
Heater, block including isolation valves (CSM Style)		
208 V, 1-Phase	GM64398-KA12	GM64398-KA11
240 V, 1-Phase	GM64398-KA6	GM64398-KA1
240 V, 3-Phase	GM64398-KA7	GM64398-KA2
380 V, 3-Phase	GM64398-KA8	GM64398-KA3
480 V, 1-Phase	GM64398-KA10	GM64398-KA5
480 V, 3-Phase	GM64398-KA9	GM64398-KA4
Block heater isolation valves	—	—
Duct flange, radiator	—	GM17216-KA1

	600 kW	750/800 kW
Cooling Systems		
Heater, block including isolation valves		
208 V, 1-Phase	GM79185-KA1	GM77517-KA6
240 V, 1-Phase	GM79185-KA2	GM77517-KA2
240 V, 3-Phase	—	GM77517-KA4
380 V, 3-Phase	—	GM77517-KA5
480 V, 1-Phase	GM79185-KA3	GM77517-KA3
480 V, 3-Phase	—	GM77517-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.
Remote Radiator Setup		
GM10977-MA1		
1	Bracket, belt guard	GM10546
1	Bracket, belt guard	GM10544
1	Bracket, belt guard	GM10545
1	Bracket, belt guard	GM10547
1	Guard, pulley right side	GM10952
1	Guard, pulley bottom	GM10951
1	Guard, pulley front	GM10955
1	Guard, pulley left side	GM10950
1	Guard, pulley top	GM10949
1	Bracket, guard	GM10948
1	Tube, water inlet	GM10953
1	Tube, outlet	GM10954
4	Clamp, hose, 3.43/3.75 in.	324342
2	Hose, radiator, straight, 3 in. ID	X-507-4
12	Screw, hex washer head, drill	X-794-1
1	Plug, pipe, 1/2	X-75-3
1	Ball, bearing	GM10996

Remote Radiator Setup		
GM13541-MA1		
1	Clamp, hose, 2.81/3.12 in.	275527
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	Guard, belt guard mounting	GM12352
1	Guard, belt guard mounting	GM12353
2	Guard, belt guard mounting	GM12354
1	Guard, belt guard mounting	GM12355
1	Guard, pulley, top	GM13510
1	Guard, pulley, LS	GM13511
1	Guard, pulley, bottom	GM13512
1	Guard, pulley, RS	GM13513
1	Cover, pulley	GM13514
4	Screw, hex cap	M961-10030-60
1	Hose, radiator, straight, 2.5 in. ID	X-424-10
1	Hose, radiator, straight, 3.5 in. ID	X-6014-70

Remote Radiator Setup		
GM20152-MA1		
4	Clamp, hose, 2.81/3.12 in.	275527
1	Tube, water inlet (4 in. OD steel)	GM10953
1	Flange, water connection, outlet	GM11962
1	Tube, outlet	GM20697
1	Guard, pulley, RS	GM20699
1	Guard, pulley, LS	GM20701
2	Screw, hex cap	M961-10025-60
2	Hose, radiator, straight, 2.5 in. ID	X-424-10
2	Washer, beveled, .44 Id x 1.25 in. OD	X-6011-4

Qty.	Description	Part No.
Remote Radiator Setup		
GM31732-MA1		
1	Clamp, 3.62 in.	286286
4	Clamp, hose, 3.25/3.56 in.	291542
1	Guard, belt (top)	GM31977
1	Guard, belt (LS)	GM31978
1	Guard, belt (RS)	GM31979
1	Bracket, guard (RS)	GM31981
1	Bracket, guard (RS)	GM31982
1	Bracket, guard (LS)	GM31983
1	Bracket, guard (LS)	GM31984
1	Guard, belt (chg. alt.)	GM31985
1	Guard, chg. alt	GM31986
1	Guard, belt (chg. alt.)	GM31987
1	Bracket, guard (chg alt)	GM32108
1	Tube, outlet	GM32393
1	Bracket, hose	GM32394
1	Tube, lower remote radiator	GM32395
1	Guard, front	GM32396
1	Guard, bottom	GM32397
2	Bracket, hose	GM32398
2	Hose, radiator, straight, 3 in. ID	X-507-7
16	Screw, hex washer head, drill	X-794-1

Remote Radiator Flex Kit		
GM10976-KP1		
32	Screw, hex head machine	X-6021-1
32	Nut, hex, 5/8-11, zinc	X-85-3
2	Adapter, flexible, radiator	354044

Block Heater, Single		
GM12080-KA1		
1	Bushing, reducing, 1/2 x 3/4 in. NPT	153659
1	Strap, ground	223033
4	Bumper	259632
1	Tag, hang	279047
1	Thermostat, block heater	279813
1	Heater, block	279816
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	Bracket, block heater	354687
1	Bushing, adapter	GM10577
1	Fitting, tee, pipe, 1/2 in.	X-203-13
1	Nipple, pipe, 1/2 x 1 3/16 in.	X-209-2
1	Pipe, 1/2 in. NPT	X-209-21
1	Fitting, elbow, pipe, 1/2 in.	X-215-1
10	Washer, lock, .262 ID x .743 in. OD	X-22-12
2	Washer, lock, .391 ID x .975 in. OD	X-22-14
1	Valve, drain	X-256-5
3	Fitting, 45° street elbow	X-274-13
1	Fitting, 45° street elbow	X-274-15
4	Clamp, hose, .69/1.25 in.	X-426-12
2	Coupling, hose	X-582-7
2	Hose, coolant, 40 in.	X-6367-7
4	Screw, slotted hex washer head machine	X-97-13

Cooling System Kits

Block Heater Kits: GM10699-KA1-GM10699-KA4

Qty.	Description	Common Parts	Unique Parts			
			GM10699-KA1	GM10699-KA2	GM10699-KA3	GM10699-KA4
1	Heater, block (includes items marked *)		347686	GM10700	GM10701	GM10702
1	*Pump		328148	328148	328148	328148
1	*Contactor		328217	328217	GM19498	328217
1	*Transformer		328218	328218	GM19499	328218
1	*Element, replacement		GM19305	GM19496	GM19497	GM19500
1	*Thermostat, high limit		GM19494	GM19494	GM19494	GM19494
1	Washer, nylon, .878 ID x .132 in OD	276552				
1	Tag, hang	279047				
1	Harness, wiring	279956				
1	Relay	291309				
1	Tag, instruction	299896				
1	Track, mounting, 1 in.	347278				
1	Thermostat	347742				
1	Bushing, adapter	GM10577				
1	Bushing, reducing, 1/2 x 3/4 in. NPT	X-202-41				
1	Fitting, tee, pipe, 1 x 1 x 1 in.	X-203-2				
1	Fitting, elbow, street 1/2 in.	X-211-1				
1	Nipple, pipe, 1 x 1 1/2 in.	X-218-24				
4	Clamp, hose, .69/1.25 in.	X-426-12				
2	Coupling, hose	X-582-15				
1	Coupling, hose	X-582-7				
1	Coupling, hose	X-582-8				
2	Washer, beveled, .44 ID x 1.25 in. OD	X-6011-4				
1	Socket	X-6124-4				
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	Plug, pipe (1 in. NPT)	X-75-13				
2	Screw, hex washer head, drill	X-794-2				

Cooling System Kits, continued

Block Heater Kits: GM17215-KA1-GM17215-KA12

Qty.	Description	Common Parts	Unique Parts		
			GM17215-KA1	GM17215-KA2	GM17215-KA3
1	Heater, block (CSS Style; use service kit)		361246	361248	361249
1	Block heater service element		GM29666	GM29668	GM29669
1	Block Heater Service Kit		GM66014-13	GM66014-14	GM66014-15
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			
2	Valve, shutoff	GM19670			
1	Bracket, block heater	GM30921			
1	Bracket, block heater	GM30922			
1	Tee, pipe, 1 x 1 x 1 in. NPT	X-203-3			
4	Pipe, 1/2 in. NPT x 1.5 in.	X-209-5			
2	Elbow, pipe, 90 deg. x 1/2 in. NPT	X-215-1			
1	Pipe, 1 in. NPT x 1.5 in.	X-218-24			
1	Elbow, street (45 deg. x 1 in. NPT)	X-274-10			
4	Stud, 5/16-18 x 1.5 in.	X-352-65			
4	Clamp, hose, .69/1.25 in.	X-426-12			
2	Connector, hose	X-582-15			
2	Connector, hose	X-582-7			
1	Hose, coolant 35 in.	X-6367-11			
1	Hose, coolant 70 in.	X-6367-3			
1	Plug, pipe, 1 in. NPT	X-75-13			

Qty.	Description	Common Parts	Unique Parts			
			GM17215-KA4	GM17215-KA5	GM17215-KA11	GM17215-KA12
1	Heater, block (CSS Style; use service kit)		361240	361247	GM42088	GM42088
1	Block heater service element		GM29665	GM29667	GM42089	GM42089
1	Block Heater Service Kit		GM66014-16	GM66014-17	GM66014-23	GM66014-24
1	Block Heater (CSM Style)		GM62498	GM62500	GM62509	GM62509
1	Block Heater replacement element		GM62638	GM62640	GM62649	GM62649
1	Tag, hang	279047				
1	Tag, instruction	299896				
4	Vibromount	328645				
2	Valve, shutoff	GM19670				
1	Bracket, block heater	GM30921				
1	Bracket, block heater	GM30922				
1	Tee, pipe, 1 x 1 x 1 in. NPT	X-203-3				
4	Pipe, 1/2 in. NPT x 1.5 in.	X-209-5				
2	Elbow, pipe, 90 deg. x 1/2 in. NPT	X-215-1				
1	Pipe, 1 in. NPT x 1.5 in.	X-218-24				
1	Elbow, street (45 deg. x 1 in. NPT)	X-274-10				
4	Stud, 5/16-18 x 1.5 in.	X-352-65				
4	Clamp, hose, .69/1.25 in.	X-426-12				
2	Connector, hose	X-582-15				
2	Connector, hose	X-582-7				
1	Hose, coolant 35 in.	X-6367-11				
1	Hose, coolant 70 in.	X-6367-3				
1	Plug, pipe, 1 in. NPT	X-75-13				
1	Flange					GM10023
1	Gasket					GM10065

Cooling System Kits, continued

Block Heater Kits: GM17215-KA1-GM17215-KA12

Qty.	Description	Common Parts	Unique Parts		
			GM17215-KA6	GM17215-KA7	GM17215-KA8
1	Heater, block (CSS Style; use service kit)		361246	361248	361249
1	Block heater service element		GM29666	GM29668	GM29669
1	Block Heater Service Kit		GM66014-18	GM66014-19	GM66014-20
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			
2	Valve, shutoff	GM19670			
1	Bracket, block heater	GM30921			
1	Bracket, block heater	GM90922			
1	Tee, pipe, 1 x 1 x 1 in. NPT	X-203-3			
4	Pipe, 1/2 in. NPT x 1.5 in.	X-209-5			
2	Elbow, pipe, 90 deg. x 1/2 in. NPT	X-215-1			
1	Pipe, 1 in. NPT x 1.5 in.	X-218-24			
1	Elbow, street (45 deg. x 1 in. NPT)	X-274-10			
4	Stud, 5/16-18 x 1.5 in.	X-352-65			
4	Clamp, hose, .69/1.25 in.	X-426-12			
2	Connector, hose	X-582-15			
2	Connector, hose	X-582-7			
1	Hose, coolant 65 in.	X-6367-9			
1	Hose, coolant 70 in.	X-6367-3			
1	Plug, pipe, 1 in. NPT	X-75-13			
1	Flange	GM10023			
1	Gasket	GM10065			

Qty.	Description	Common Parts	Unique Parts	
			GM17215-KA9	GM17215-KA10
1	Heater, block (CSS Style; use service kit)		361240	361247
1	Block heater service element		GM29665	GM29667
1	Block Heater Service Kit		GM66014-21	GM66014-22
1	Block Heater (CSM Style)		GM62498	GM62500
1	Block Heater replacement element		GM62638	GM62640
1	Tag, hang	279047		
1	Tag, instruction	299896		
4	Vibromount	328645		
2	Valve, shutoff	GM19670		
1	Bracket, block heater	GM30921		
1	Bracket, block heater	GM30922		
1	Tee, pipe, 1 x 1 x 1 in. NPT	X-203-3		
4	Pipe, 1/2 in. NPT x 1.5 in.	X-209-5		
2	Elbow, pipe, 90 deg. x 1/2 in. NPT	X-215-1		
1	Pipe, 1 in. NPT x 1.5 in.	X-218-24		
1	Elbow, street (45 deg. x 1 in. NPT)	X-274-10		
4	Stud, 5/16-18 x 1.5 in.	X-352-65		
4	Clamp, hose, .69/1.25 in.	X-426-12		
2	Connector, hose	X-582-15		
2	Connector, hose	X-582-7		
1	Hose, coolant 65 in.	X-6367-9		
1	Hose, coolant 70 in.	X-6367-3		
1	Plug, pipe, 1 in. NPT	X-75-13		
1	Flange	GM10023		
1	Gasket	GM10065		

Cooling System Kits, continued

Block Heater Kits: GM21100-KA1-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			
4	Vibromount	GM38784-2			
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	Bracket, block heater	GM38834			
1	Bushing, adapter	GM10577			
2	Valve, shutoff	GM19670			
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			
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 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			
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, 5/15-18 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			
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, 5/16-18 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: GM31788-KA1–GM31788-KA5

Qty.	Description	Common Parts	Unique Parts		
			GM31788-KA1	GM31788-KA2	GM31788-KA3
1	Heater, block (CSS Style; use service kit)		361240	361246	361247
1	Element, replacement		GM29665	GM29666	GM29667
1	Block Heater Service Kit		GM66014-49	GM66014-50	GM66014-51
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	Bushing, adapter	GM10577			
1	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 (1 in. NPT x 3.00 in.)	X-218-22			
1	Pipe (3/4 in. NPT x 1.38 in.)	X-206-9			
2	Pipe (1/2 in. NPT x 9.50 in.)	X-209-17			
1	Elbow, street (90 deg x 3/4 in. NPT)	X-211-5			
1	Elbow, pipe (90 deg x 1 in. NPT)	X-215-15			
1	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
4	Stud, 5/16-18 x 1.5 in.	X-352-65			
4	Clamp, hose, .69/1.25 in.	X-426-12			
2	Connector, hose	X-582-15			
1	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-6367-12			
1	Hose, coolant 65 in.	X-6367-9			
1	Plug, pipe (1 in. NPT)	X-75-13			
1	Adapter, Bushing	GM12035			
1	Pipe (1"npt x 6.50")	X-218-9			
1	Elbow, pipe (45 deg x 1"npt)	X-225-9			
1	Valve, drain (1/8"nptf) + Vibra seal	X-256-2			

Block Heater Kits: GM31788-KA1–GM31788-KA6

Qty.	Description	Common Parts	Unique Parts		
			GM31788-KA4	GM31788-KA5	GM31788-KA6
1	Heater, block (CSS Style; use service kit)		361248	361249	GM42088
1	Element, replacement		GM29668	GM29669	GM42089
1	Block Heater Service Kit		GM66014-52	GM66014-53	GM66014-54
1	Block Heater (CSM Style)		GM62501	GM624502	GM624509
1	Block Heater replacement element		GM62641	GM62642	GM62649
1	Tag, hang	279047			
1	Tag, instruction	299896			
4	Vibromount	328645			
1	Bushing, adapter	GM10577			
1	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 (1 in. NPT x 3.00 in.)	X-218-22			
1	Pipe (3/4 in. NPT x 1.38 in.)	X-206-9			
2	Pipe (1/2 in. NPT x 9.50 in.)	X-209-17			
1	Elbow, street (90 deg x 3/4 in. NPT)	X-211-5			
1	Elbow, pipe (90 deg x 1 in. NPT)	X-215-15			
1	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
4	Stud, 5/16-18 x 1.5 in.	X-352-65			
4	Clamp, hose, .69/1.25 in.	X-426-12			
2	Connector, hose	X-582-15			
1	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-6367-12			
1	Hose, coolant 65 in.	X-6367-9			
1	Plug, pipe (1 in. NPT)	X-75-13			
1	Adapter, Bushing	GM12035			
1	Pipe (1"npt x 6.50")	X-218-9			
1	Elbow, pipe (45 deg x 1"npt)	X-225-9			
1	Valve, drain (1/8"nptf) + Vibra seal	X-256-2			

Cooling System Kits, continued

Block Heater Kits: GM64394-KA1–GM64394-KA6

Qty.	Description	Common Parts	Unique Parts		
			GM64394-KA1	GM64394-KA2	GM64394-KA3
1	Block Heater (CSM Style)		GM62498	GM62499	GM62500
1	Block Heater replacement element		GM62638	GM62639	GM62640
1	Elbow, street (90 deg x 1"nptf)	151385			
1	Tag, hang	279047			
1	Tag, instruction	299896			
4	Vibromount	328645			
1	Bushing, adapter	GM10577			
1	Adapter, Bushing	GM12035			
1	Valve, shutoff (3/4-14 NPT)	GM19666			
1	Valve, shutoff (1/2-14 NPT)	GM19670			
1	Bracket, block heater	GM60615			
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			
2	Pipe (1/2 in. NPT x 9.50 in.)	X-209-17			
1	Elbow, street (90 deg x 3/4 in. NPT)	X-211-5			
1	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
1	Valve, drain (1/8"nptf) + Vibra seal	X-256-2			
4	Stud, 5/15-18 x 1.5 in.	X-352-65			
4	Clamp, hose, .69/1.25 in.	X-426-12			
2	Connector, hose	X-582-15			
1	Connector, hose	X-582-7			
1	Connector, hose	X-582-8			
2	Washer, beveled, .44 ID x 1.25 in. OD	X-6011-4			
4	Washer, nylon, .815 ID x 1.068 in. OD	X-6278-4			
1	Hose, coolant	X-6367-16			
1	Hose, coolant	X-6367-19			
1	Plug, pipe (1 in. NPT)	X-75-13			

Qty.	Description	Common Parts	Unique Parts		
			GM64394-KA4	GM64394-KA5	GM64394-KA6
1	Block Heater (CSM Style)		GM62501	GM62502	GM62509
1	Block Heater replacement element		GM62641	GM62642	GM62649
1	Elbow, street (90 deg x 1"nptf)	151385			
1	Tag, hang	279047			
1	Tag, instruction	299896			
4	Vibromount	328645			
1	Bushing, adapter	GM10577			
1	Adapter, Bushing	GM12035			
1	Valve, shutoff (3/4-14 NPT)	GM19666			
1	Valve, shutoff (1/2-14 NPT)	GM19670			
1	Bracket, block heater	GM60615			
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			
2	Pipe (1/2 in. NPT x 9.50 in.)	X-209-17			
1	Elbow, street (90 deg x 3/4 in. NPT)	X-211-5			
1	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
1	Valve, drain (1/8"nptf) + Vibra seal	X-256-2			
4	Stud, 5/15-18 x 1.5 in.	X-352-65			
4	Clamp, hose, .69/1.25 in.	X-426-12			
2	Connector, hose	X-582-15			
1	Connector, hose	X-582-7			
1	Connector, hose	X-582-8			
2	Washer, beveled, .44 ID x 1.25 in. OD	X-6011-4			
4	Washer, nylon, .815 ID x 1.068 in. OD	X-6278-4			
1	Hose, coolant	X-6367-16			
1	Hose, coolant	X-6367-19			
1	Plug, pipe (1 in. NPT)	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			
1	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			

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			
1	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			

Cooling System Kits, continued

Block Heater Kits: GM64398-KA1-GM64398-KA12

Qty.	Description	Common Parts	Unique Parts			
			GM64398-KA1	GM64398-KA2	GM64398-KA3	GM64398-KA4
1	Block Heater (CSM Style)		GM62499	GM62501	GM62502	GM62498
1	Block Heater replacement element		GM62639	GM62641	GM62642	GM62638
1	Hose, coolant 26 in.		X-6367-6	X-6367-6	X-6367-6	X-6367-6
1	Tag, hang	279047				
1	Tag, instruction	299896				
4	Vibromount	328645				
2	Valve, shutoff	GM19670				
1	Bracket, block heater	GM60615				
1	Tee, pipe, 1 x 1 x 1 in. NPT	X-203-2				
4	Pipe, 1/2 in. NPT x 1.5 in.	X-209-5				
2	Elbow, pipe, 90 deg. x 1/2 in. NPT	X-215-1				
1	Pipe, 1 in. NPT x 1.5 in.	X-218-24				
1	Elbow, street (45 deg. x 1 in. NPT)	X-274-10				
4	Stud, 5/16-18 x 1.5 in.	X-352-65				
4	Clamp, hose, .69/1.25 in.	X-426-12				
2	Connector, hose	X-582-15				
2	Connector, hose	X-582-7				
1	Hose, coolant 70 in.	X-6367-3				
1	Plug, pipe, 1 in. NPT	X-75-13				

Qty.	Description	Common Parts	Unique Parts			
			GM64398-KA5	GM64398-KA6	GM64398-KA7	GM64398-KA8
1	Block Heater (CSM Style)		GM62500	GM62499	GM62501	GM62502
1	Block Heater replacement element		GM62640	GM62639	GM62641	GM62642
1	Hose, coolant		X-6367-6	X-6367-6	X-6367-10	X-6367-10
1	Flange				GM10023	GM10023
1	Gasket				GM10065	GM10065
1	Tag, hang	279047				
1	Tag, instruction	299896				
4	Vibromount	328645				
2	Valve, shutoff	GM19670				
1	Bracket, block heater	GM60615				
1	Tee, pipe, 1 x 1 x 1 in. NPT	X-203-2				
4	Pipe, 1/2 in. NPT x 1.5 in.	X-209-5				
2	Elbow, pipe, 90 deg. x 1/2 in. NPT	X-215-1				
1	Pipe, 1 in. NPT x 1.5 in.	X-218-24				
1	Elbow, street (45 deg. x 1 in. NPT)	X-274-10				
4	Stud, 5/16-18 x 1.5 in.	X-352-65				
4	Clamp, hose, .69/1.25 in.	X-426-12				
2	Connector, hose	X-582-15				
2	Connector, hose	X-582-7				
1	Hose, coolant 70 in.	X-6367-3				
1	Plug, pipe, 1 in. NPT	X-75-13				

Qty.	Description	Common Parts	Unique Parts			
			GM64398-KA9	GM64398-KA10	GM64398-KA11	GM64398-KA12
1	Block Heater (CSM Style)		GM62498	GM62500	GM62509	GM62509
1	Block Heater replacement element		GM62638	GM62640	GM62649	GM62649
1	Hose, coolant		X-6367-10	X-6367-10	X-6367-6	X-6367-10
1	Flange		GM10023	GM10023		GM10023
1	Gasket		GM10065	GM10065		GM10065
1	Tag, hang	279047				
1	Tag, instruction	299896				
4	Vibromount	328645				
2	Valve, shutoff	GM19670				
1	Bracket, block heater	GM60615				
1	Tee, pipe, 1 x 1 x 1 in. NPT	X-203-2				
4	Pipe, 1/2 in. NPT x 1.5 in.	X-209-5				
2	Elbow, pipe, 90 deg. x 1/2 in. NPT	X-215-1				
1	Pipe, 1 in. NPT x 1.5 in.	X-218-24				
1	Elbow, street (45 deg. x 1 in. NPT)	X-274-10				
4	Stud, 5/16-18 x 1.5 in.	X-352-65				
4	Clamp, hose, .69/1.25 in.	X-426-12				
2	Connector, hose	X-582-15				
2	Connector, hose	X-582-7				
1	Hose, coolant 70 in.	X-6367-3				
1	Plug, pipe, 1 in. NPT	X-75-13				

Cooling System Kits, continued

Block Heater Kits: GM77517-KA1-GM77517-KA6

Qty.	Description	Common Parts	Unique Parts		
			GM77517-KA1	GM77517-KA2	GM77517-KA3
1	Block Heater (CSM Style)		GM62498	GM62499	GM62500
1	Block Heater replacement element		GM62638	GM62639	GM62640
1	Elbow, street (90 deg x 1"nptf)	151385			
1	Tag, hang	279047			
1	Tag, instruction	299896			
4	Vibromount	328645			
1	Bushing, adapter	GM10577			
1	Adapter, Bushing	GM12035			
1	Valve, shutoff (3/4-14 NPT)	GM19666			
1	Valve, shutoff (1/2-14 NPT)	GM19670			
1	Bracket, block heater	GM60615			
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			
2	Pipe (1/2 in. NPT x 9.50 in.)	X-209-17			
1	Elbow, street (90 deg x 3/4 in. NPT)	X-211-5			
1	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
1	Valve, drain (1/8"nptf) + Vibra seal	X-256-2			
4	Stud, 5/15-18 x 1.5 in.	X-352-65			
4	Clamp, hose, .69/1.25 in.	X-426-12			
2	Connector, hose	X-582-15			
1	Connector, hose	X-582-7			
1	Connector, hose	X-582-8			
4	Washer, nylon, .815 ID x 1.068 in. OD	X-6278-4			
1	Hose, coolant	X-6367-16			
1	Hose, coolant	X-6367-19			
1	Plug, pipe (1 in. NPT)	X-75-13			

Qty.	Description	Common Parts	Unique Parts		
			GM77517-KA4	GM77517-KA5	GM77517-KA6
1	Block Heater (CSM Style)		GM62501	GM62502	GM62509
1	Block Heater replacement element		GM62641	GM62642	GM62649
1	Elbow, street (90 deg x 1"nptf)	151385			
1	Tag, hang	279047			
1	Tag, instruction	299896			
4	Vibromount	328645			
1	Bushing, adapter	GM10577			
1	Adapter, Bushing	GM12035			
1	Valve, shutoff (3/4-14 NPT)	GM19666			
1	Valve, shutoff (1/2-14 NPT)	GM19670			
1	Bracket, block heater	GM60615			
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			
2	Pipe (1/2 in. NPT x 9.50 in.)	X-209-17			
1	Elbow, street (90 deg x 3/4 in. NPT)	X-211-5			
1	Nipple, pipe, 1 x 1 1/2 in.	X-218-24			
1	Valve, drain (1/8"nptf) + Vibra seal	X-256-2			
4	Stud, 5/15-18 x 1.5 in.	X-352-65			
4	Clamp, hose, .69/1.25 in.	X-426-12			
2	Connector, hose	X-582-15			
1	Connector, hose	X-582-7			
1	Connector, hose	X-582-8			
4	Washer, nylon, .815 ID x 1.068 in. OD	X-6278-4			
1	Hose, coolant	X-6367-16			
1	Hose, coolant	X-6367-19			
1	Plug, pipe (1 in. NPT)	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			

Qty.	Description	Part No.
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Block Heater Isolation

PA-365308

1	Nipple, pipe	X-206-9
1	Nipple, pipe, 1/2 x 1 3/16 in.	X-209-2
1	Valve, shutoff	255612
1	Valve	255632

Block Heater Isolation

GM12529-KA1

1	Nipple, pipe, 1/2 x 2 in.	X-209-6
1	Nipple, pipe, 1/2 x 1 3/16 in.	X-209-2
1	Fitting, elbow, street, 1/2 in.	X-211-1
2	Valve, shutoff	255612

Qty.	Description	Part No.
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Radiator Duct Flange

365204

8	Rivet, pop, .187 in.	X-781-10
2	Frame, air duct	365210
2	Frame, air duct	365211

Radiator Duct Flange

GM10991-KA1

8	Rivet, pop, .187 in.	X-781-10
2	Frame, air duct	GM10992
2	Frame, air duct	GM10993

Radiator Duct Flange

GM17216-KA1

12	Rivet, pop, .187 in.	X-781-10
2	Frame, air duct, LS and RS	GM17661
2	Frame, air duct, top and bottom	GM17662

Notes

Appendix A Abbreviations

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

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

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

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.

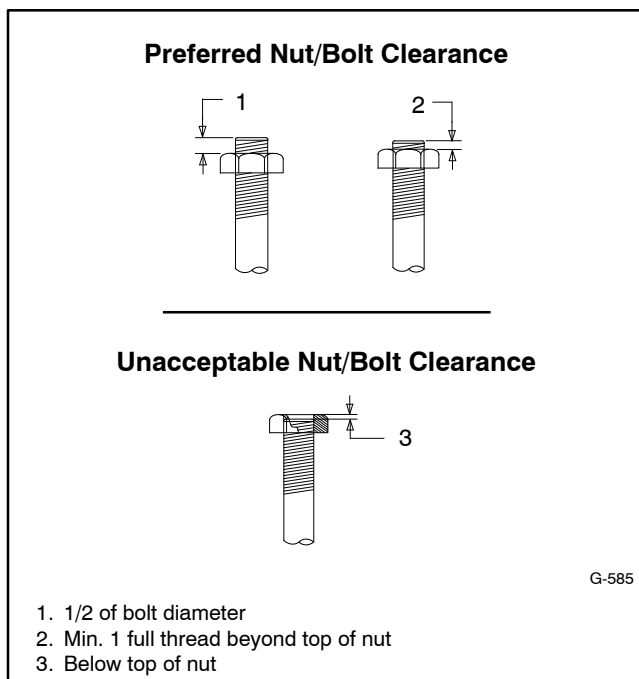


Figure 1 Acceptable Bolt Lengths

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.

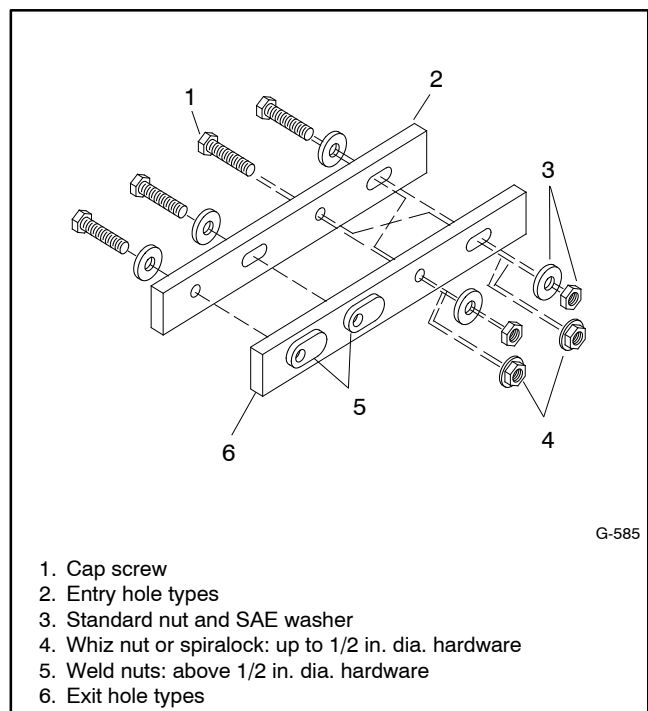


Figure 2 Acceptable Hardware Combinations

Appendix C General Torque Specifications

Use the following torque specifications when service literature instructions give no specific torque values. The charts list values for new plated, zinc phosphate, or

oiled threads. Increase values by 15% for nonplated threads. All torque values are +0%/-10%.

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)	—	1.8 (16)
10-24	Nm (in. lb.)	2.9 (26)	3.6 (32)	—	2.9 (26)
10-32	Nm (in. lb.)	2.9 (26)	3.6 (32)	—	2.9 (26)
1/4-20	Nm (in. lb.)	6.8 (60)	10.8 (96)	14.9 (132)	6.8 (60)
1/4-28	Nm (in. lb.)	8.1 (72)	12.2 (108)	16.3 (144)	8.1 (72)
5/16-18	Nm (in. lb.)	13.6 (120)	21.7 (192)	29.8 (264)	13.6 (120)
5/16-24	Nm (in. lb.)	14.9 (132)	23.1 (204)	32.5 (288)	14.9 (132)
3/8-16	Nm (ft. lb.)	24.0 (18)	38.0 (28)	53.0 (39)	24.0 (18)
3/8-24	Nm (ft. lb.)	27.0 (20)	42.0 (31)	60.0 (44)	27.0 (20)
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	5.6 (4)	9.9 (7)	14.0 (10)	5.6 (4)
M8 x 1.25	13.6 (10)	25.0 (18)	35.0 (26)	13.6 (10)
M8 x 1.00	21.0 (16)	25.0 (18)	35.0 (26)	21.0 (16)
M10 x 1.50	27.0 (20)	49.0 (35)	68.0 (50)	27.0 (20)
M10 x 1.25	39.0 (29)	49.0 (35)	68.0 (50)	39.0 (29)
M12 x 1.75	47.0 (35)	83.0 (61)	117.0 (86)	—
M12 x 1.50	65.0 (48)	88.0 (65)	125.0 (92)	—
M14 x 2.00	74.0 (55)	132.0 (97)	185.0 (136)	—
M14 x 1.50	100.0 (74)	140.0 (103)	192.0 (142)	—
M16 x 2.00	115.0 (85)	200.0 (148)	285.0 (210)	—
M16 x 1.50	141.0 (104)	210.0 (155)	295.0 (218)	—
M18 x 2.50	155.0 (114)	275.0 (203)	390.0 (288)	—
M18 x 1.50	196.0 (145)	305.0 (225)	425.0 (315)	—

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)

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

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

Lock Washers

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
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Flat Head Machine Screws

M965A-04012-SS	M4-0.70 x 12
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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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