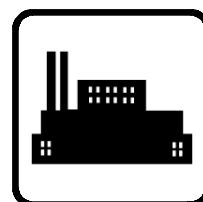


Service Parts

Industrial/Residential Generator Sets



Models:

KG40- KG125
KG80R- KG125R
KG150- KG200
KG150R

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

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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

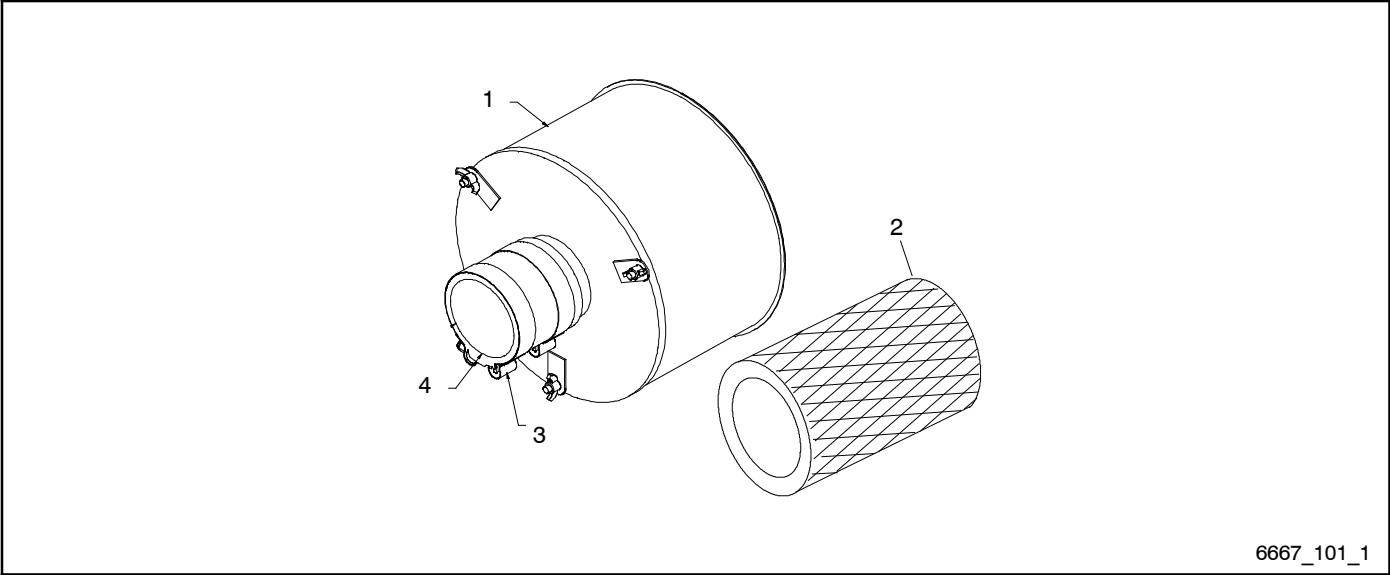
Group Title	Air Intake	Cooling System	Engine	Nameplates and Decals	Skid and Plant Mounting	Generator and Mounting	Control and Harness	Literature
Group No.	101	104	105	107	109	201	301	701
Spec No.	Variation Number							

KG40								
GM102292-GA4	*	*	1	*	*	*	†	555
KG45								
GM102292-GA3	*	*	1	*	*	*	†	556
KG50								
GM102292-GA2	*	*	1	*	*	*	†	557
KG60								
GM102292-GA1	*	*	1	*	*	*	†	558
KG80								
GM105406-GA1	*	*	2	*	*	*	†	563
GM105406-GA2	*	*	2	*	*	*	†	563
KG80R								
GM105302-GA1	*	*	2	*	*	*	†	564
GM105302-GA2	*	*	2	*	*	*	†	564
KG100								
GM105405-GA1	*	*	3	*	*	*	†	565
KG100R								
GM105303-GA1	*	*	3	*	*	*	†	566
KG125								
GM105405-GA2	*	*	3	*	*	*	†	567
KG125R								
GM105303-GA2	*	*	3	*	*	*	†	568
KG150								
GM104493-GA2	*	*	4	*	*	*	†	581
GM104493-GA8	*	*	5	*	*	*	†	581
KG150R								
GM104493-GA1	*	*	4	*	*	*	†	580
GM104493-GA7	*	*	5	*	*	*	†	580
KG180								
GM104493-GA3	*	*	5	*	*	*	†	582
GM104493-GA4	*	*	5	*	*	*	†	582
KG200								
GM104493-GA5	*	*	5	*	*	*	†	583
GM104493-GA6	*	*	5	*	*	*	†	583

- * 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 Group 701: Literature for list of controller parts manuals.

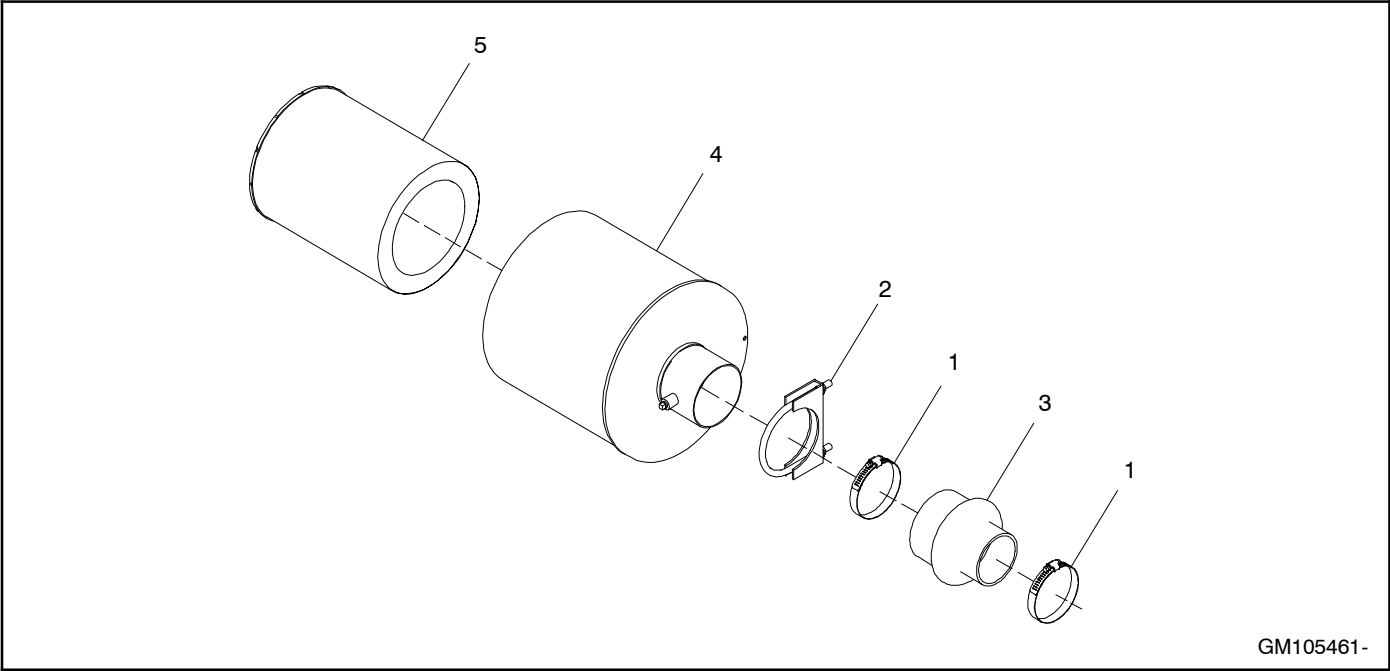
Group 101: Air Intake

KG40- 60, GM66788-MA1



Item	Part Number	Description	Quantity
1	A-253104	Air cleaner assembly	1
2	253107	Element, Air Cleaner	1
3	291542	Clamp, Hose, 3.25/3.56 in.	2
4	X-6014-137	Hose, Wire Insert 3 in. ID	1

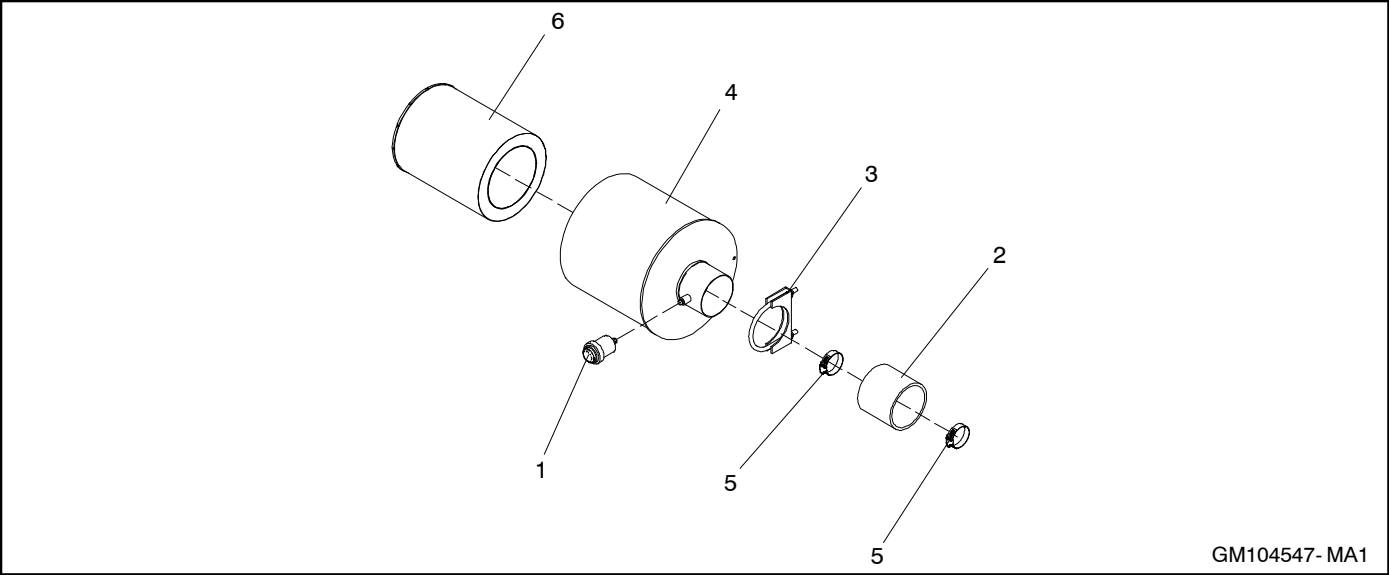
KG80- KG80R, GM105461-MA1



Item	Part Number	Description	Quantity
1	X-426-5	Clamp, Hose, 3.56/4.5 in.	1
2	289372	Clamp, Muffler, 4.12 in.	1
3	253481	Hose, Hump reducer (4 in. to 3 in.)	2
4	GM104787	Air cleaner assembly	1
5	GM62309	Element, Air cleaner	1

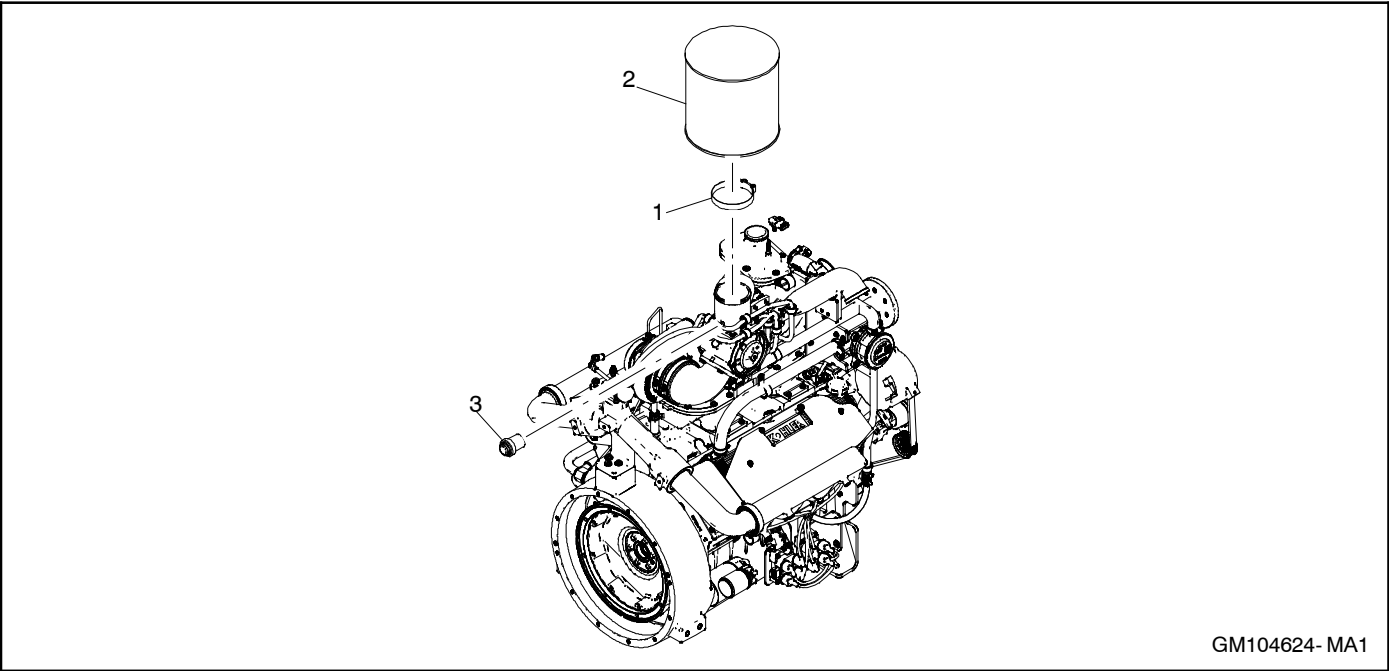
Group 101: Air Intake

KG100(R)- KG125(R), GM104547- MA1



Item	Part Number	Description	Quantity
1	GM11489	Gauge, restriction	1
2	X- 6350- 5	Hose, radiator, straight, 4 in. ID	1
3	289372	Clamp, muffler, 4.12 in.	1
4	GM104787	Air cleaner assy	1
5	X- 426- 7	Clamp, Hose, 4.06/5 in.	2
6	GM62309	Element, Air Cleaner	1

KG150(R)- KG200, GM104624- MA1

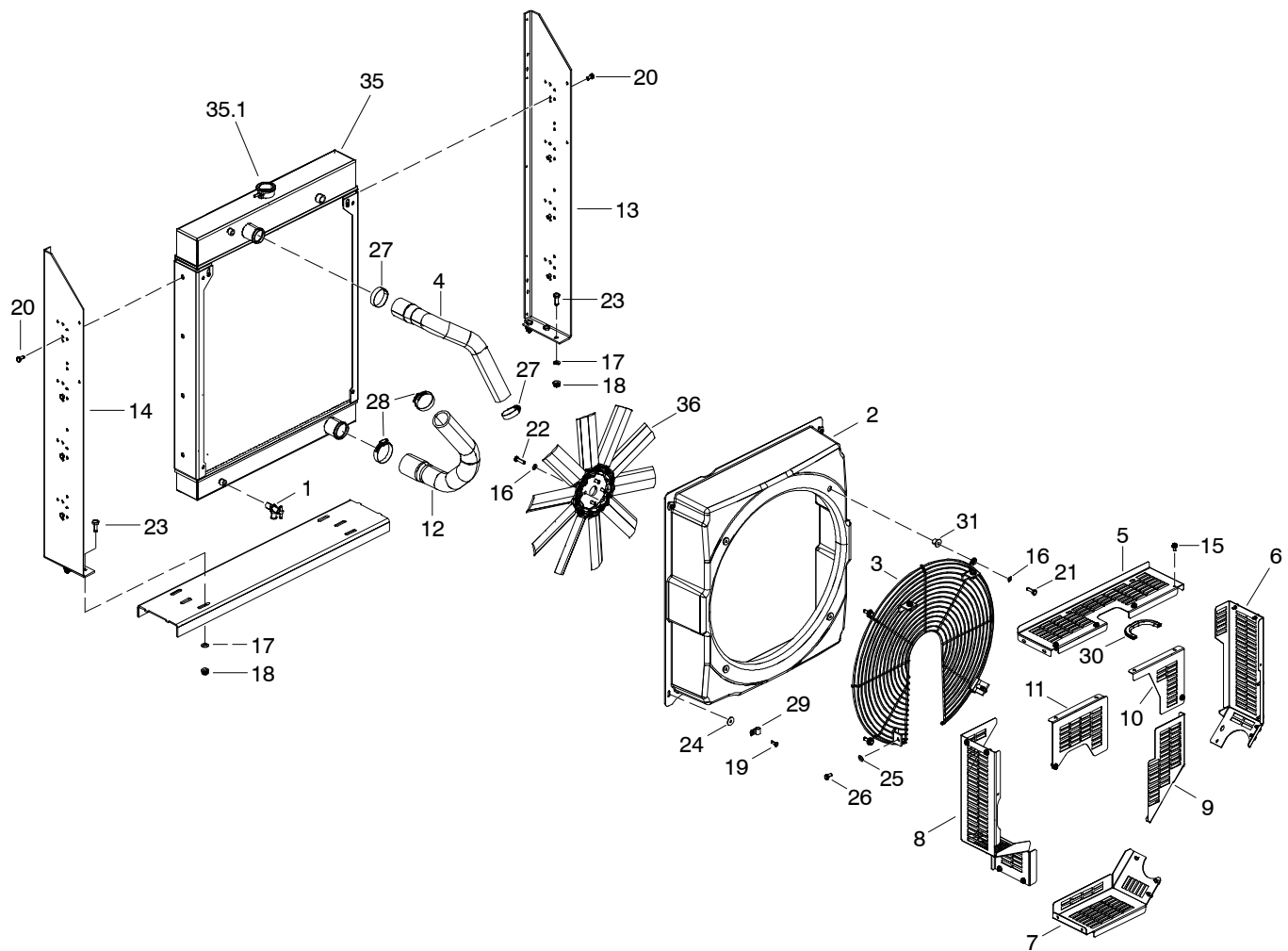


Item	Part Number	Description	Quantity
1	274545	Clamp, hose, 4.31/4.62 in.	1
2	GM105975	Air cleaner, standard duty, 4 in. Out	1
3	GM11489	Gauge, restriction	1

Notes

Group 104: Cooling System

KG40-60, GM102766-



GM102766_B

Group 104: Cooling System

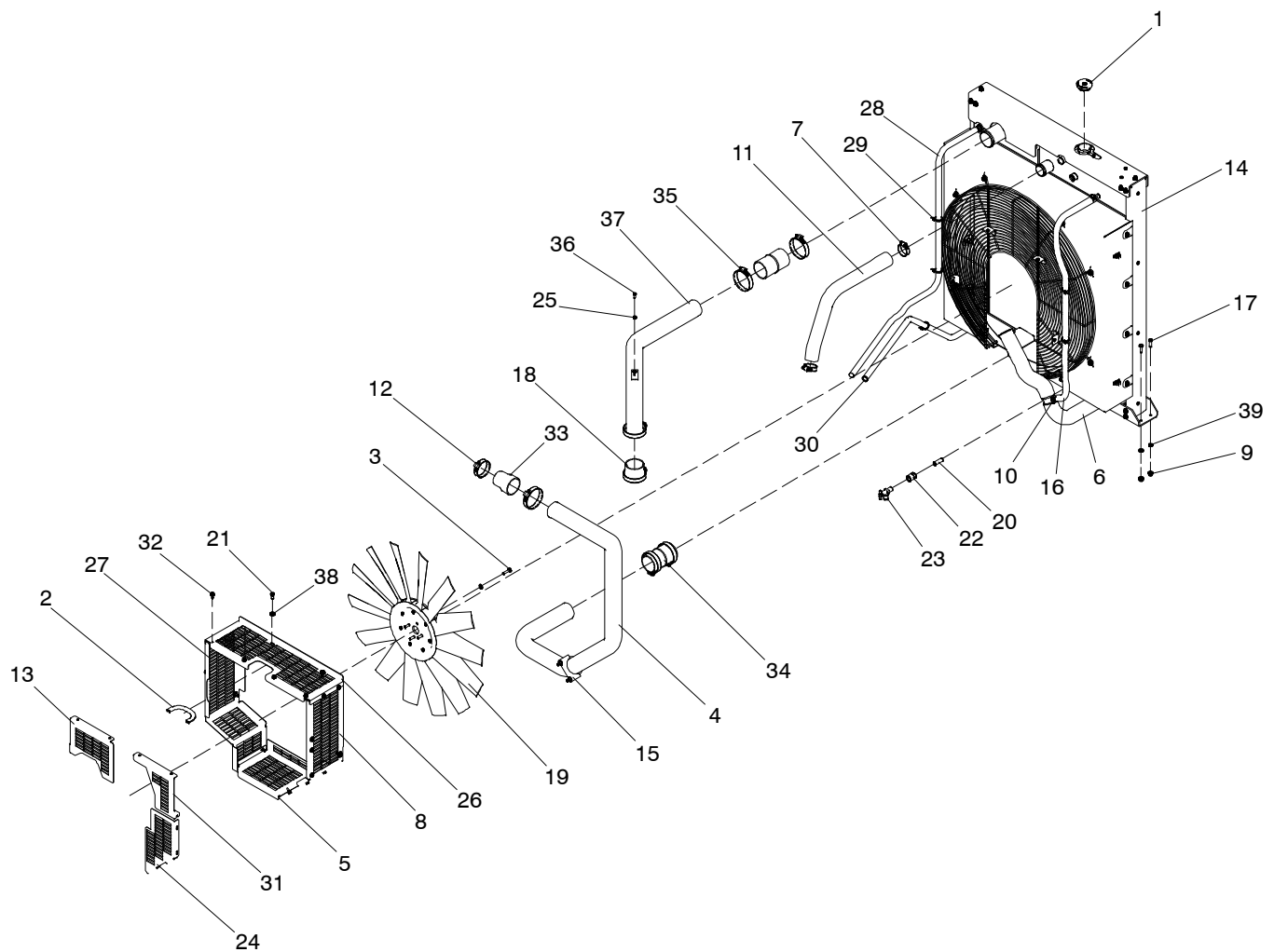
			KG40- 60, GM102766-
Item	Part Number	Description	Quantity
1	278788	Valve, Drain (3/8 in. NPTF)	1
2	324076	Shroud, Fan	1
3	352378	Guard, Wire fan	1
4	GM102769	Hose, Upper radiator	1
5	GM102770	Guard, Belt top	1
6	GM102771	Guard, Belt RH	1
7	GM102772	Guard, Belt bottom	1
8	GM102837	Guard, Belt LH	1
9	GM102838	Guard, Belt back	1
10	GM102839	Guard, Belt upper back RH	1
11	GM102840	Guard, Belt upper back LH	1
12	GM14098	Hose, Lower radiator (44 mm ID)	1
13	GM29987	Support, Radiator	1
14	GM29988	Support, Radiator	1
15	GM78761-1	Screw, Sheet metal M6 x 1 x 16 mm	19
16	M125A-08-80	Washer, Plain 8.4 ID x 16 OD	8
17	M125A-10-80	Washer, Plain 10.5 ID x 20 OD	6
18	M6923-10-80	Nut, Hex 10 mm	6
19	M933-06016-60	Screw, Hex cap	4
20	M933-08016-60	Screw, Hex cap	8
21	M933-08025-60	Screw, Hex cap	4
22	M933-08030-82	Screw, Hex cap	4
23	M933-10025-60	Screw, Hex cap	6
24	X-25-73	Washer, Pl .266 ID x 1 in. OD	4
25	X-25-85	Washer, Plain, .344 ID x .687 in. OD	4
26	X-125-23	Bolt, Hex cap	4
27	X-426-19	Clamp, Hose, 1/2 in.	2
28	X-426-2	Clamp, Hose, 2.31/3.25 in.	2
29	X-672-7	Clamp, Insulated, .44 in.	1
30	X-6047-48	Channel, "U"	1
31	X-6365-2	Insert, Threaded	4
35	GM52730	Radiator assembly	1
35.1	352327	Radiator Cap	1
36	See chart	Fan, Pusher	1
-	GM109949	Coolant, 50/50 Blend EG Gal. (case of 4)	
-	SVC003	Coolant test kit	1

Use this table to identify part numbers of item 36.

Kit No.	Models	Item 36
GM102766-MA1	KG50- 60	GM92877
GM102766-MA2	KG40- 45	GM16769

Group 104: Cooling System, continued

KG80- KG80R, GM105189-MA1



GM105189-

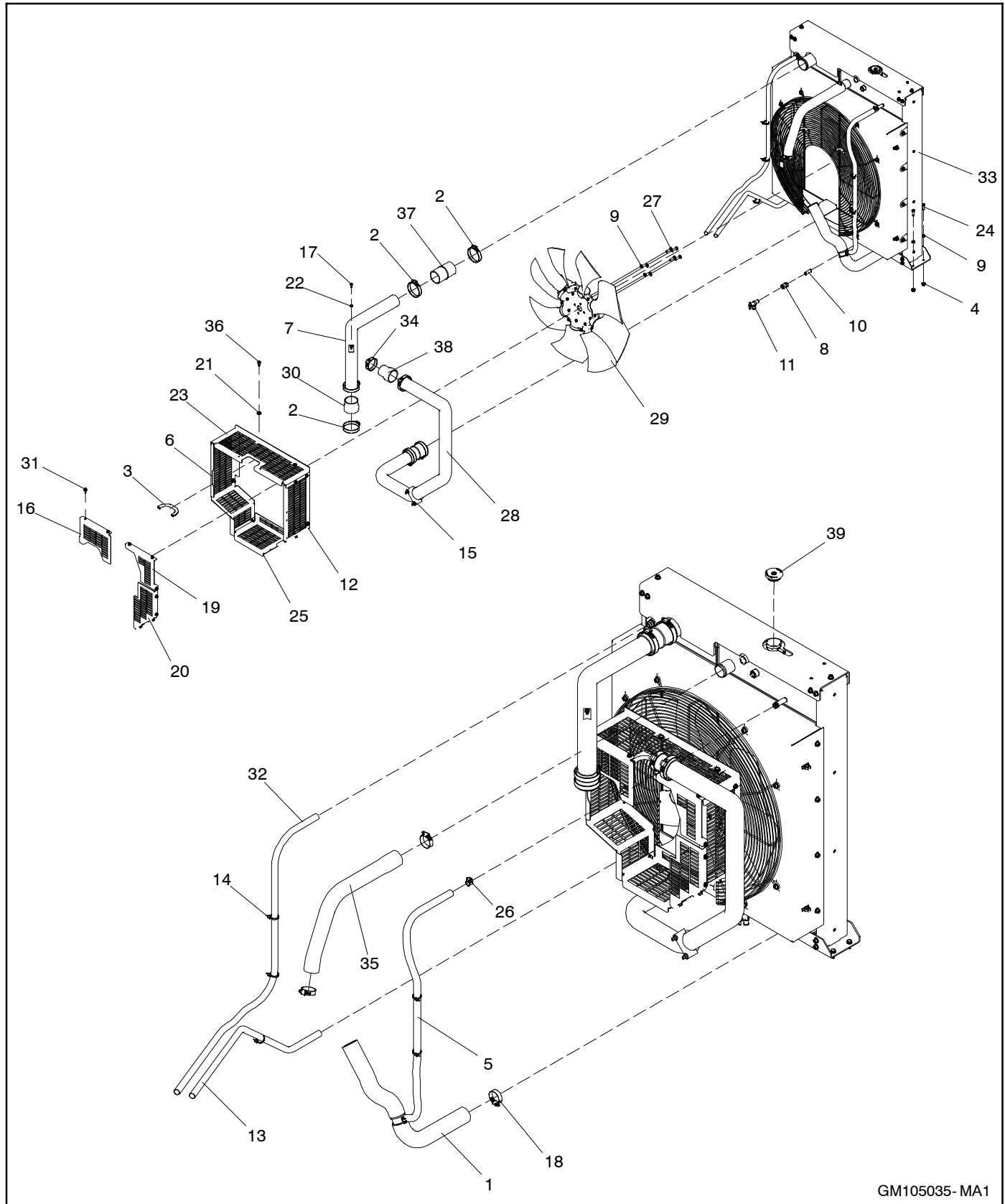
Group 104: Cooling System, continued

KG80- KG80R, GM105189-MA1

Item	Part Number	Description	Quantity
1	GM54994	Cap, Radiator	1
2	X-6047-48	Channel, "U"	1
3	M933-08030-82	Screw, Hex cap M8 x 30	4
4	GM104551	Pipe, CAC lower	1
5	GM104792	Guard, Belt bottom	1
6	GM104549	Hose, Radiator lower	1
7	X-426-16	Clamp, Hose, 1.81/2.75 in.	4
8	GM104791	Guard, Belt RH	1
9	M6923-08-80	Nut, Hex 8 mm	4
10	X-426-12	Clamp, Hose, .69/1.25 in.	2
11	GM104553	Hose, Radiator upper	1
12	GM106396	Clamp, SAE 275, 51- 63 mm	1
13	GM102840	Guard, Belt upper back LH	1
14	GM104987	Radiator assembly, ERC	1
15	X-722-2	Clamp, Muffler, 2.62 in.	1
16	X-312-62	Hose, .63 ID	1
17	M933-08025-60	Screw, Hex cap M8 x 25	4
18	GM104555	Hose, Reducer	1
19	GM105190	Fan, Pusher	1
20	X-220-6	Pipe (1/4 in. NPT x 1.50 in.)	1
21	X-125-23	Bolt, Hex cap	4
22	X-250-2	Coupling, Reducer (3/8 in. x 1/4 in. NPT)	1
23	278788	Valve, Drain (3/8 in. NPTF)	1
24	GM102838	Guard, Belt back	1
25	M125A-06-80	Washer, plain	1
26	GM104790	Guard, Belt top	1
27	GM104793	Guard, Belt LH	1
28	GM105167	Oilcool line, Upper, F6-06-06-8-8-8C-1432	1
29	X-468-1	Cable tie	5
30	GM105166	Oilcool line, Lower, F6-06-06-8-8-8C-920,	1
31	GM102839	Guard, Belt upper back, RH	1
32	GM78761-1	Screw, Sheetmetal	17
33	GM104554	Hose, Reducer	1
34	X-6380-12	Hose, Charged air cooler	2
35	GM106397	Clamp, SAE 338, 67- 80 mm	7
36	M933-06014-60	Screw, Hex cap M6 x 14	1
37	GM104541	Pipe, CAC Upper	1
38	X-25-20	Washer, Flat .312 ID x .75 OD	4
39	M125A-08-80	Washer, Plain 8.4 ID x 16.0 OD	8
-	GM109951	Coolant, 50/50 Blend EG 55 Gal. Drum	
-	SVC003	Coolant test kit	1

Group 104: Cooling System, continued

KG100(R) - KG125(R), GM105035- MA1



GM105035- MA1

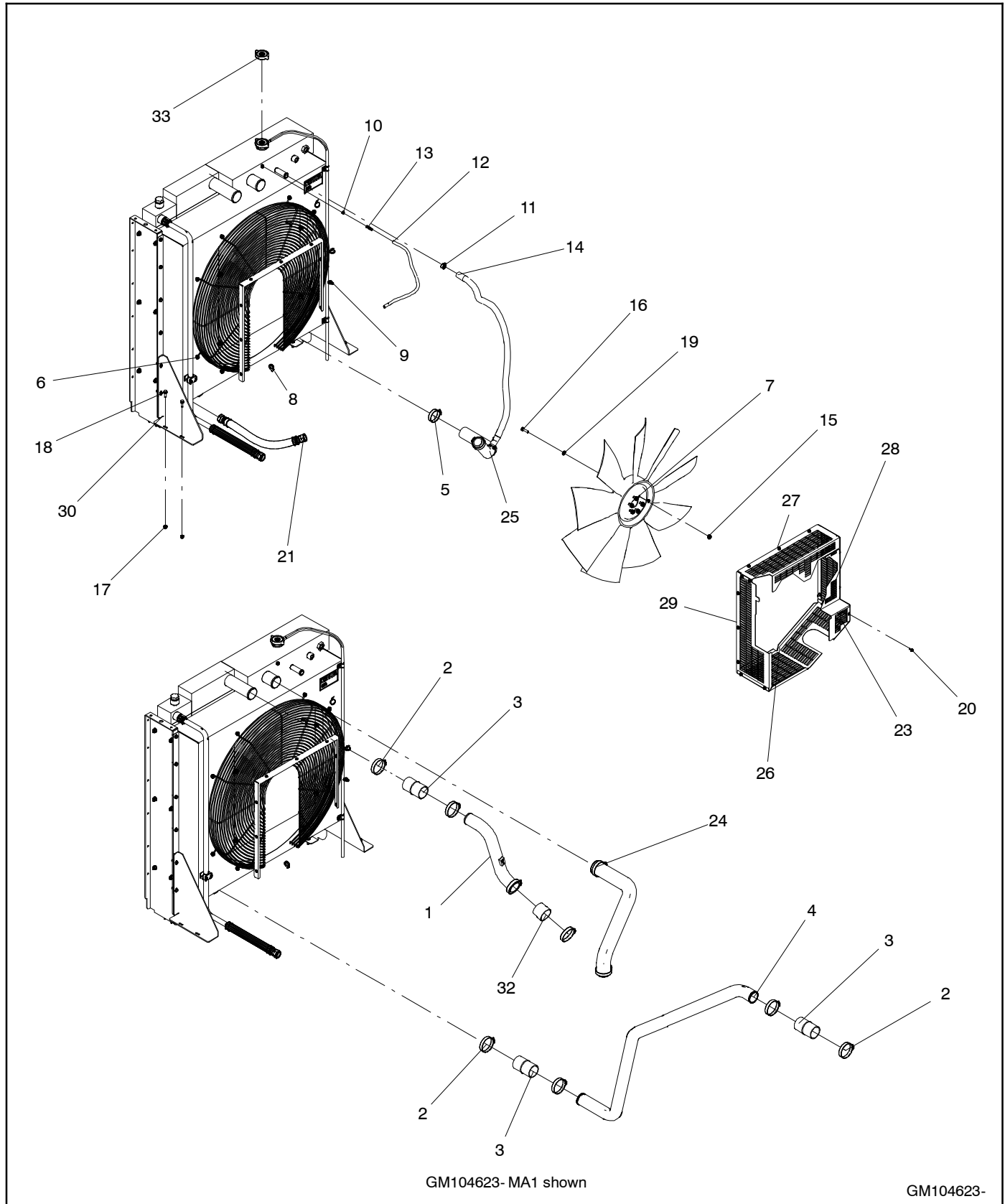
Group 104: Cooling System, continued

KG100(R) - KG125(R), GM105035- MA1

Item	Part Number	Description	Quantity
1	GM104549	Hose, Radiator Lower	1
2	GM106397	Clamp, SAE 338, 67- 80 mm	7
3	X- 6047- 48	Channel, "U"	1
4	M6923- 08- 80	Nut, Hex 8 mm	4
5	X- 312- 62	Hose, .63 ID.	1
6	GM104793	Guard, Belt LH	1
7	GM104541	Pipe, CAC upper	1
8	X- 250- 2	Coupling, Reducer (3/8 in. x 1/4 in. NPT)	1
9	M125A- 08- 80	Washer, Plain 8.4 ID x 16.0 OD	8
10	X- 220- 6	Pipe (1/4 in. NPT x 1.50 in.)	1
11	278788	Valve, Drain (3/8 in. NPTF)	1
12	GM104791	Guard, Belt RH	1
13	GM109327	Hose: F6- 10- 920- 06- 10- 06- 10	1
14	X- 468- 1	Cable Tie	5
15	X- 722- 2	Clamp, Muffler, 2.62 in.	1
16	GM102840	Guard, Belt Upper Back LH	1
17	M933- 06014- 60	Screw, Hex Cap M6 x 14	1
18	X- 426- 16	Clamp, Hose, 1.81/2.75 in.	4
19	GM102839	Guard, Belt Upper Back, RH	1
20	GM102838	Guard, Belt Back	1
21	X- 25- 20	Washer, Flat .312 ID x .75 OD	4
22	M125A- 06- 80	Washer, Plain	1
23	GM104790	Guard, Belt Top	1
24	M933- 08025- 60	Screw, Hex Cap M8 x 25	4
25	GM104792	Guard, Belt Bottom	1
26	X- 426- 12	Clamp, Hose, .69/1.25 in.	2
27	M933- 08030- 82	Screw, Hex Cap M8 x 30	4
28	GM104551	Pipe, CAC Lower	1
29	GM104556	Fan, Pusher	1
30	GM104555	Hose, Reducer	1
31	GM78761- 1	Screw, Sheetmetal	17
32	GM109328	Hose: F6- 10- 1280- 06- 10- 06- 10	1
33	GM104943	Radiator Assembly	1
34	GM106396	Clamp, SAE 275, 51- 63 mm	1
35	GM104553	Hose, Radiator Upper	1
36	X- 125- 23	Bolt, Hex Cap	4
37	X- 6380- 12	Hose, Charged Air Cooler	2
38	GM104554	Hose, Reducer	1
39	GM54994	Cap, Radiator	1
-	GM109952	Coolant, 50/50 Blend EG 264 Gal. Tote	
-	SVC003	Coolant test kit	1

Group 104: Cooling System, continued

KG150(R)- KG200, GM104623-



Group 104: Cooling System, continued

KG150(R)- KG200, GM104623-

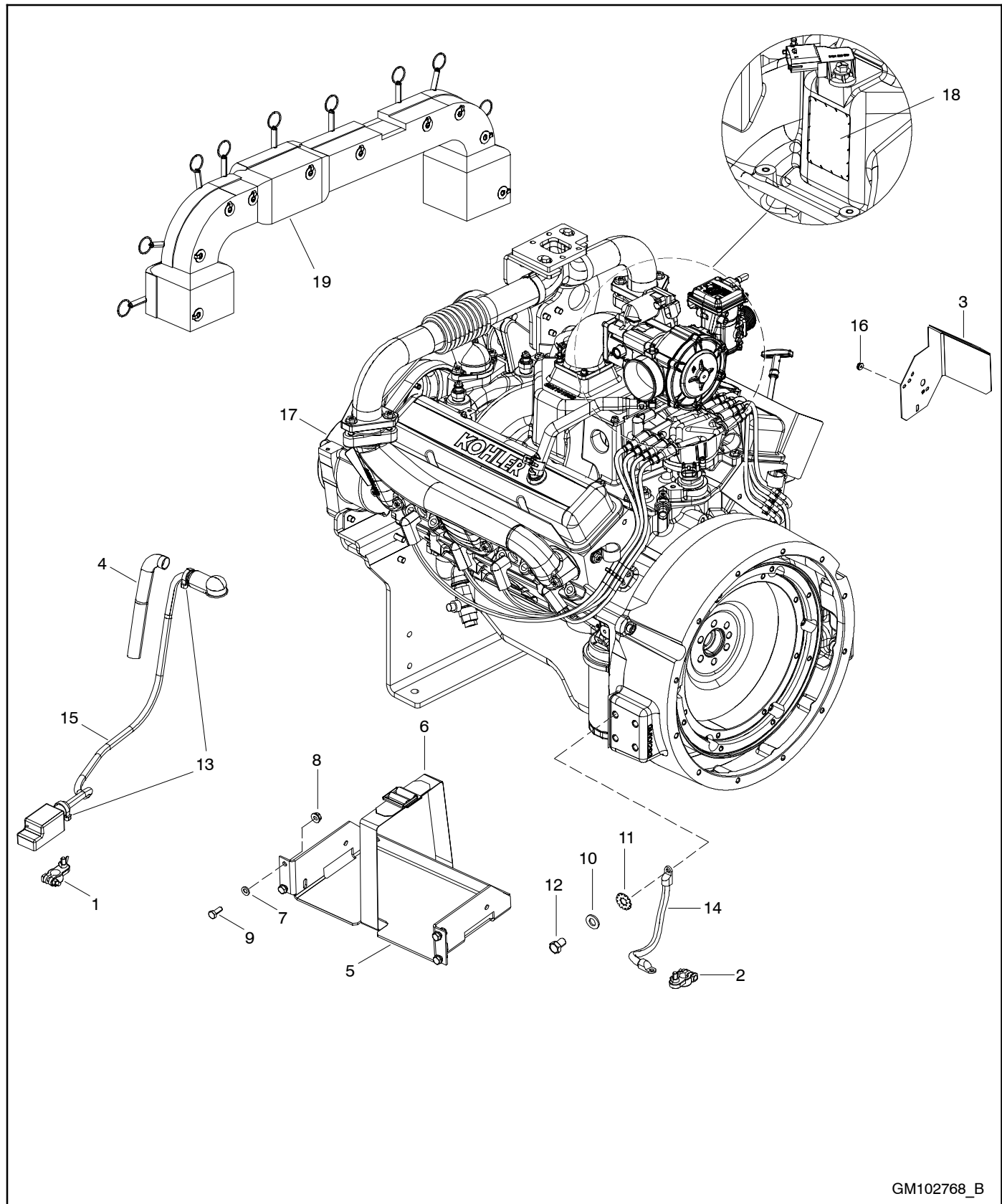
Item	Part Number	Description	Quantity
1	See chart	Tube, CAC Engine Inlet	1
2	GM106397	Clamp, SAE 338, 67- 80 mm	10
3	X-6380-12	Hose, Charged Air Cooler	3
4	See chart	Tube, CAC Turbo Outlet, ERC	1
5	GM106396	Clamp, SAE 275, 51- 63 mm	2
6	See chart	Radiator, KG150- 200	1
7	See chart	Fan, Radiator, Pusher, 900 mm Diameter	1
8	X-468-4	Cable Tie	2
9	X-468-1	Cable Tie	3
10	X-426-9	Clamp, Hose, .25/.70 In.	2
11	X-426-21	Clamp, Hose, .81/1.75 In.	2
12	X-386-70	Fuel Line, Flexible	1
13	X-380-5	Connector, Hose + Vibra Seal	1
14	X-356-50	Hose, SAE 20R1 (1.0 in. ID) (51.0 in.)	1
15	M982-10-80	Nut, Hex Elastic Stop	6
16	M933-10035-60	Screw, Hex Cap M10 X 35	10
17	M6923-08-80	Nut, Hex 8 mm	4
18	M6921-08030-60	Screw, Hex Flange (M8- 1.25 X 30 mm)	4
19	M125A-10-80	Washer, Plain 10.5 ID X 20.0 OD	10
20	GM78761-1	Screw, Sheetmetal	19
21	GM113889	Hose: F6-16-745-AF9-06-16-06-16	1
22	GM113888	Oil Line, Hot	1
23	GM107013	Guard, Belt, Btm Rt, Kg150- 200	1
24	GM105930	Hose, Upper Radiator	1
25	GM105929	Hose, Lower Radiator	1
26	GM105926	Guard, Belt 10.3L Btm	1
27	GM105925	Guard, Belt 10.3L Top	1
28	GM105924	Guard, Belt 10.3L RH	1
29	GM105923	Guard, Belt 10.3L LH	1
30	GM104835	Brace, Radiator Angle LH	1
31	GM104834	Brace, Radiator Angle RH	1
32	GM104555	Hose, Reducer	1
33	GM114938	Cap, Radiator	1

Use this table to identify part numbers of items 1, 4, 6, 7.

Kit No.	Models	Item 1	Item 4	Item 6	Item 7
GM104623-MA1	KG150(R)- KG200	GM104822	GM105928	GM107057	GM109308
GM104623-MA2	KG150(R)- KG200	GM109176	GM109175	GM108064	GM107184
GM104623-MA3	KG150(R)- KG200	GM104822	GM105928	GM107057	GM111003

Group 105: Engine

KG40-60, GM102768-GR1



GM102768_B

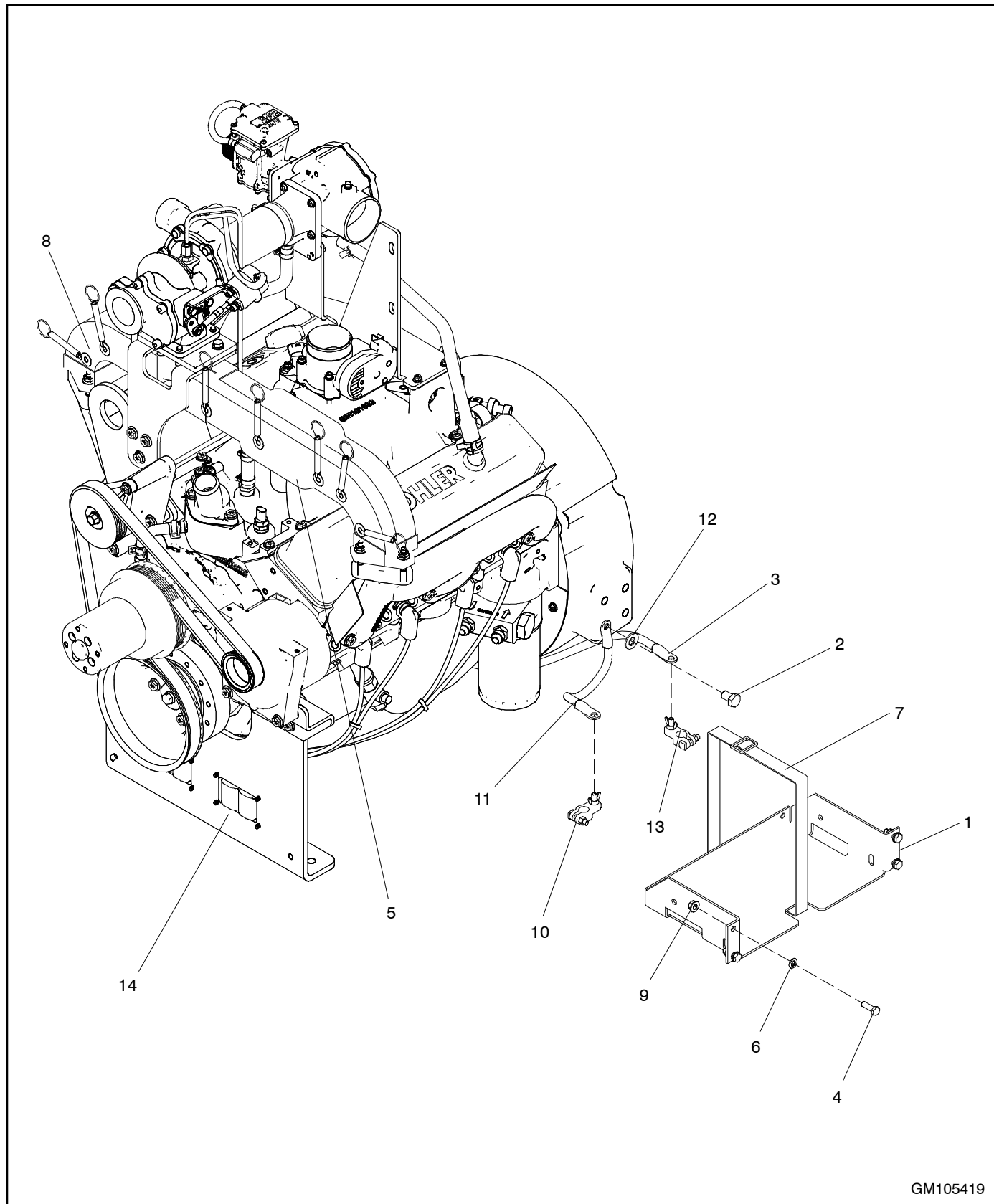
Group 105: Engine

KG40- 60, GM102768-GR1

Item	Part Number	Description	Qty.
			Var. No.
1	345039	Terminal, Battery	1
2	345056	Terminal, Battery	1
3	GM21188	Shield, Heat	1
4	GM21335	Shield, Heat (20 mm ID x 412 mm length)	1
5	GM57161	Rack, Battery	1
6	GM61432	Strap, Battery	1
7	M125A-08-80	Washer, Plain 8.4 ID x 16.0 OD	4
8	M6923-08-80	Nut, Hex 8 mm	4
9	M933-08020-60	Screw, Hex cap	4
10	X-22-26	Washer, Lock	1
11	X-25-26	Washer, Plain, .531 ID x 1.062 in. OD	1
12	X-129-15	Bolt, Hex cap	1
13	X-468-1	Cable tie	2
14	X-545-112	Cable, Battery (No. 2 x 16 in.) black-	1
15	X-545-137	Cable, Battery (No. 2 x 30 in.) red+	1
16	X-6210-5	Nut, Flange serrated, 10- 24	2
17	GM102281	Engine, Kohler, KG6208, 12V	1
18	GM93951	Nameplate	1
19	GM104268	Insulation, Exhaust tube	1

Group 105: Engine, continued

KG80- KG80R, GM105419-GR1



GM105419

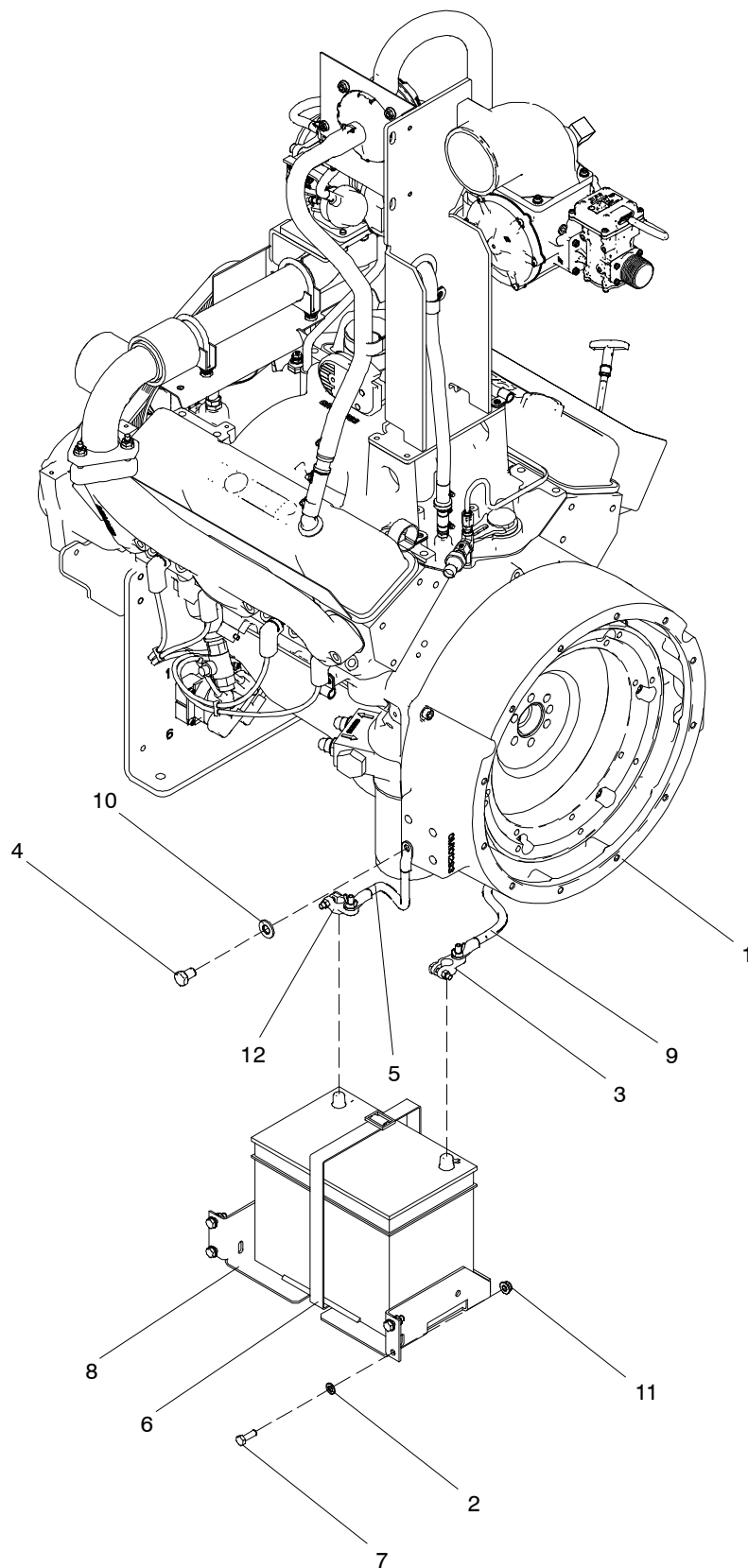
Group 105: Engine, continued

KG80- KG80R, GM105419-GR1

Item	Part Number	Description	Qty.
			Var. No.
			2
1	GM57161	Rack, Battery	1
2	X-129-15	Bolt, Hex cap	1
3	X-545-135	Cable, Battery (No. 0 x 30 in.) red+	1
4	M933-08025-60	Screw, Hex cap M8 x 25	4
5	GM106217	Insulation, Exhaust tube left	1
6	M125A-08-80	Washer, Plain 8.4 ID x 16.0 OD	4
7	GM61432	Strap, Poly battery	1
8	GM106216	Insulation, Exhaust tube right	1
9	M6923-08-80	Nut, Hex 8 mm (NRP)	4
10	345056	Terminal, Battery	1
11	X-545-112	Cable, Battery (No. 2 x 16 in.) black-	1
12	X-25-26	Washer, Plain, .531 ID x 1.062 in. OD	1
13	345039	Terminal, Battery	1
14	GM103045	Engine, Gaseous fuel, Turbo, 6.2L, 80kW	1

Group 105: Engine, continued

KG100(R)-KG125(R), GM104542-GR1



GM104542-GR1

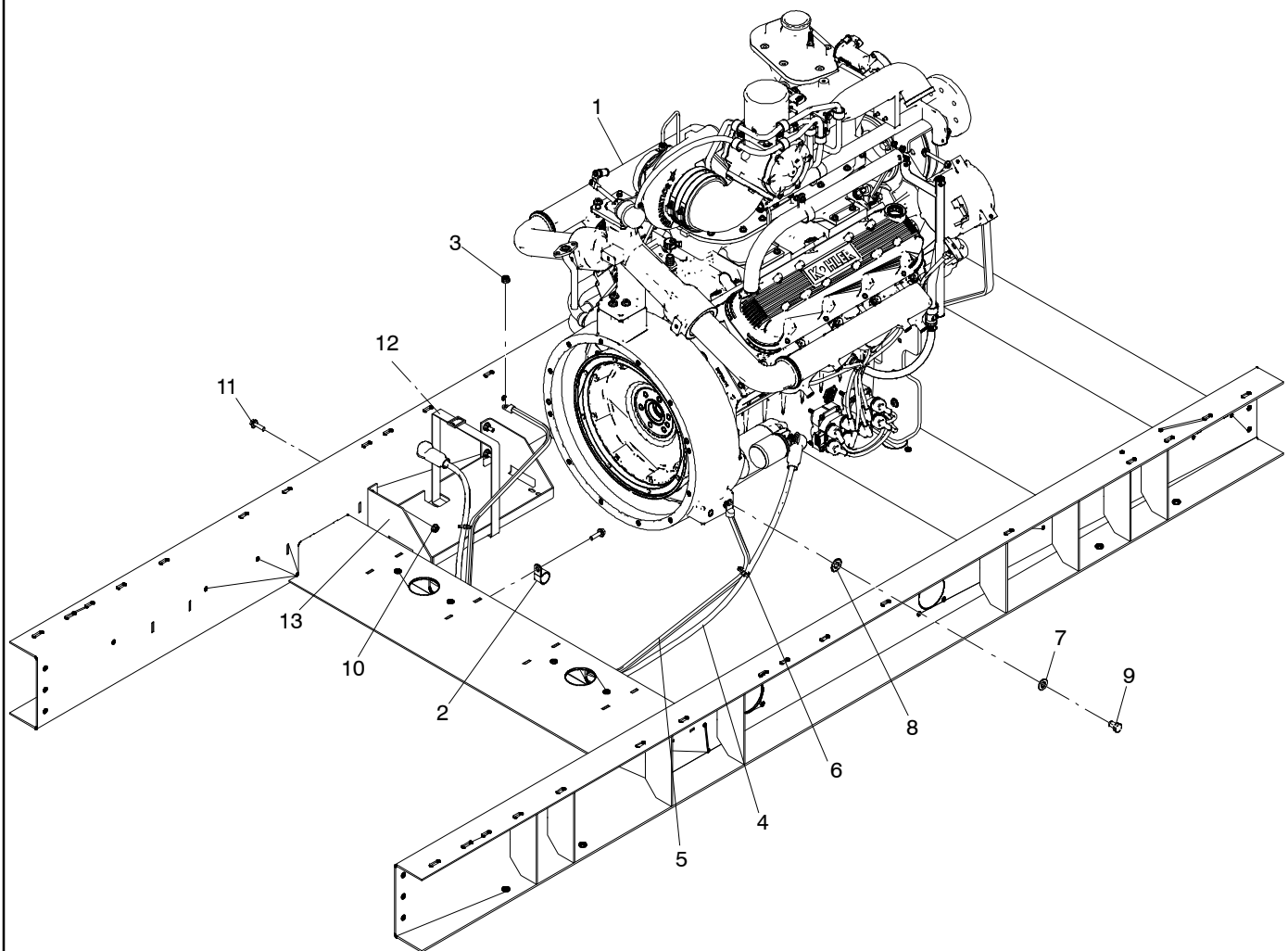
Group 105: Engine, continued

KG100(R)-KG125(R), GM104542-GR1

Item	Part Number	Description	Qty.
			Var. No. 3
1	GM100214	Engine, Gaseous Fuel, Turbo, 6.2L, 100kW+	1
2	M125A-08-80	Washer, Plain 8.4 ID x 16.0 OD	4
3	345039	Terminal, Battery	1
4	X-129-15	Bolt, Hex Cap	1
5	X-545-112	Cable, Battery (No.2 x 16 in.) Black-	1
6	GM61432	Strap, Poly Battery	1
7	M933-08025-60	Screw, Hex Cap M8 x 25	4
8	GM57161	Rack, Battery	1
9	X-545-135	Cable, Battery (No. 0 x 30 in.) Red+	1
10	X-25-26	Washer, Plain, .531 ID x 1.062 in. OD	1
11	M6923-08-80	Nut, Hex 8 mm	4
12	345056	Terminal, Battery	1

Group 105: Engine, continued

KG150(R)-KG200, GM104779-



GM104779- GR1 shown

GM104779-

Group 105: Engine, continued

KG150(R)- KG200, GM104779-

Item	Part Number	Description	Qty.	
			Var. No. 4	Var. No. 5
1	GM109253	Engine, Gaseous Fuel, Turbo, 10.3L, 150kW	1	
1	GM106900	Engine, Gaseous Fuel, Turbo, 10.3L		1
2	X-672-32	Clamp, Insulated, 1.06 In.	2	2
3	X-6210-9	Nut, Flange Spirallock, 3/8- 16	2	2
4	X-545-285	Cable, Battery (No. 2/0 X 1600 mm) Red+	1	1
5	X-545-284	Cable, Battery (No. 2/0 X 1600 mm) Black-	1	1
6	X-468-1	Cable Tie	2	2
7	X-25-26	Washer, Plain, .531 ID x 1.062 In. OD	1	1
8	X-22-26	Washer, Lock .521 ID x 1.24 In.	1	1
9	X-129-15	Bolt, Hex Cap	1	1
10	M6923-08-80	Nut, Hex 8 mm	4	4
11	M6921-08030-60	Screw, Hex Flange (M8- 1.25 X 30 mm)	6	6
12	GM61432	Strap, Poly Battery	1	1
13	GM104914	Rack, Battery	1	1

Group 107: Nameplate and Decals

KG40- KG80(R), GM79168-

Item	Part Number	Description	Qty.	
			GM79168-GR1	GM79168-GR2
1	238402	Decal, Caution positive term. only	1	1
2	249808	Decal, Warning rotating parts	1	1
3	249809	Decal, Caution Hot Engine	2	2
4	249810	Decal, Warning hot coolant	1	1
5	273780	Decal, Warning explosion	1	1
6	GM106120	Decal, Warning	1	1
7	GM156122	Decal, UL	1	1
8	GM15300	Decal, Exhaust Piping	1	1
9	GM70157-3	Decal, Kohler J- box	1	
10	GM70157-2	Decal, Kohler J- box		1

Use this table to identify the kit number.

Kit No.	Alternator Type	Models
GM79168-GR1	4P_X, 4Q_X	KG40, KG45, KG50, KG60, KG80, KG80R
GM79168-GR2	4R_X, 4T_X	KG80, KG80R

KG100(R)- KG125(R), GM107475-GR2

Item	Part Number	Description	Qty.
			GM107475-GR2
1	GM106122	Decal, UL	1
2	238402	Decal, Caution positive term. Only	1
3	GM107363	Decal, Danger, Rotating Parts	1
4	GM107366	Decal, Caution, Hot Surface	2
5	GM107367	Decal, Warning, Hot Coolant	1
6	GM15300	Decal, Exhaust Piping	1
7	GM106120	Decal, Warning	1
8	GM107369	Decal, Warning, Spark Explosion	1
9	X- 6348- 24	Decal, Kohlerpower.com	2
10	GM91124- 11	Decal, Kohler Logo	2
11	X- 6368- CST	Decal, Model	2
12	GM13776	Decal, FRII Reconnection	1
13	GM107362	Decal, Warning, Voltage Backfeed	1
14	GM39683	Tag, Hang	1
15	GM107357	Decal, Danger Hazardous Voltage	2
16	GM107363	Decal, Danger, Rotating Parts	3
17	224233	Decal, 1- 800 number	1
18	GM60531	Decal, Control Height	1
19	354518	Tag, Ground	1
20	GM62217	Nameplate, 5 in. Tall, Blank	3
21	GM107364	Decal, Warning, Lifting Eye	1
22	GM85417	Decal, Attention (For KG100R- 125R only)	1

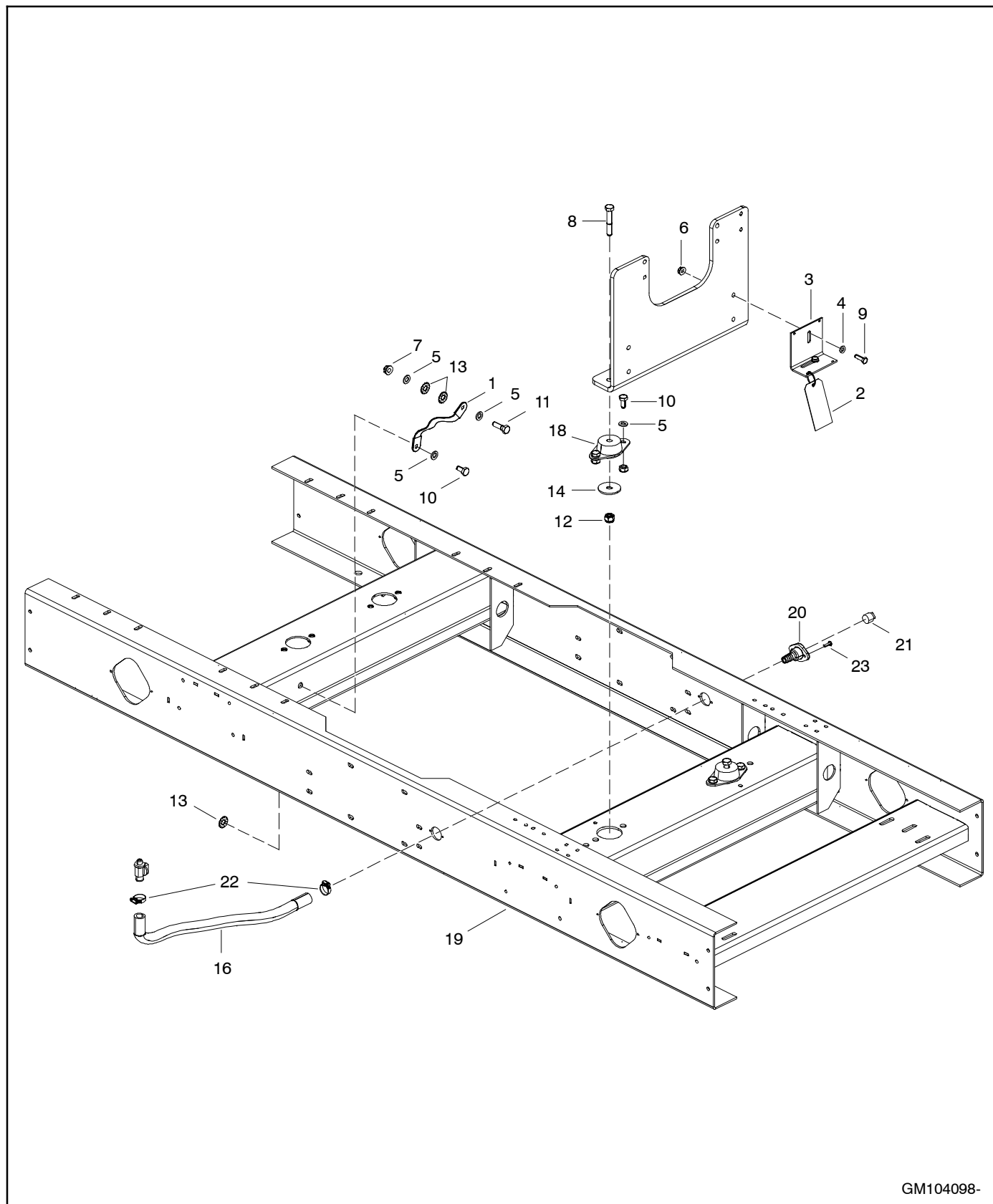
Group 107: Nameplate and Decals

KG150(R)- KG200, GM107671-
Qty.

Item	Part Number	Description	GM107671-GR1	GM107671-GR2
1	GM15300	Decal, Exhaust Piping	1	1
2	GM91124-18	Decal, Kohler Logo	2	-
2	GM91124-11	Decal, Kohler Logo	-	2
3	X-6348-24	Decal, Kohlerpower.Com	2	2
4	GM60531	Decal, Control Height	1	1
5	GM107367	Decal, Warning, Hot Coolant	1	1
6	GM62217	Nameplate, 5 in. Tall, Blank	4	4
7	GM106120	Decal, Warning	1	1
8	224233	Decal, 1 - 800 Number	1	1
9	GM106122	Decal, UI	1	1
10	GM39683	Tag, Hang	1	1
11	GM107362	Decal, Warning, Voltage Backfeed	1	1
12	354518	Tag, Ground	1	1
13	GM13776	Decal, Frii Reconnection	1	1
14	GM107363	Decal, Danger, Rotating Parts	3	3
15	GM107366	Decal, Caution, Hot Surface	2	2
16	238402	Decal, Caution Positive Term.Only	1	1
17	GM107364	Decal, Warning, Lifting Eye	1	1
18	GM107369	Decal, Warning, Spark Explosion	1	1
19	GM107357	Decal, Danger Hazardous Voltage	2	2

Group 109: Skid and Plant Mounting

KG40-60, GM104098-MA1



GM104098-

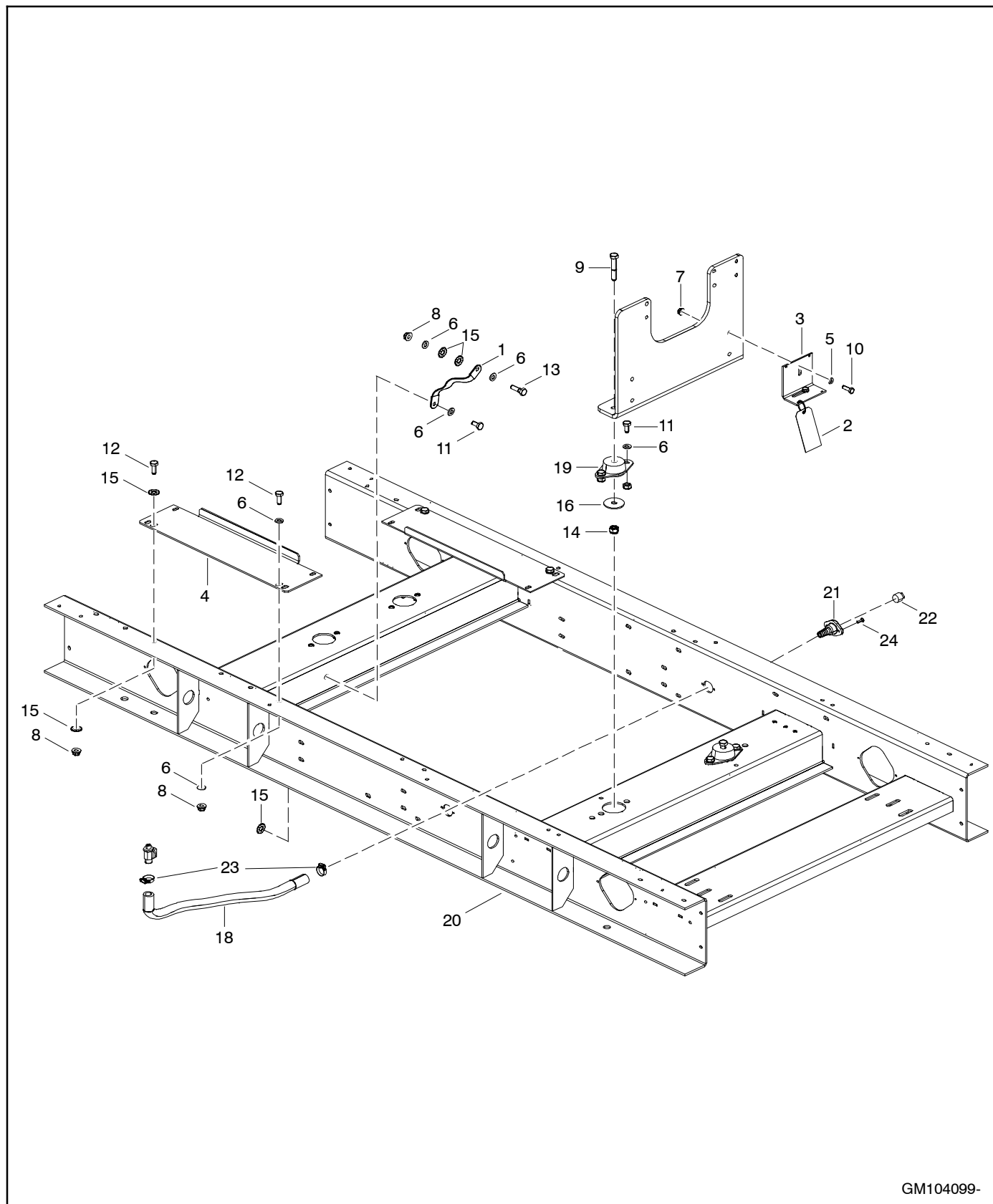
Group 109: Skid and Plant Mounting

KG40- 60, GM104098-MA1

Item	Part Number	Description	Qty.
1	290418	Strap, Ground (8 in.)	1
2	GM28552	Tag, Hang shipping bracket	1
3	GM51689	Bracket, Shipping	1
4	M125A-08-80	Washer, Plain 8.4 ID x 16 OD	2
5	M125A-10-80	Washer, Plain 10.5 ID x 20 OD	7
6	M6923-08-80	Nut, Hex 8 mm	2
7	M6923-10-80	Nut, Hex 10 mm	1
8	M931-12065-60	Screw, Hex cap	2
9	M933-08025-60	Screw, Hex cap	2
10	M933-10020-60	Screw, Hex cap	5
11	M933-10035-60	Screw, Hex cap	1
12	M982-12-80	Nut, Hex elastic stop	2
13	X-22-15	Washer, Lock	3
14	X-25-140	Washer, Plain, .531 ID x 2 in. OD	2
16	X-577-24	Hose, Rubber, straight, .62 in ID	1
18	324073	Vibromount	2
19	GM104101	Skid, KG, 34 in.	1
20	GM59015	Fitting, Bulkhead drain	1
21	X-75-58	Plug, Pipe	1
22	X-426-10	Clamp, Hose, .5/1 in.	2
23	X-781-22	Rivet, Pop, .187 in	2

Group 109: Skid and Plant Mounting, continued

KG40-60, GM104099-MA1



GM104099-

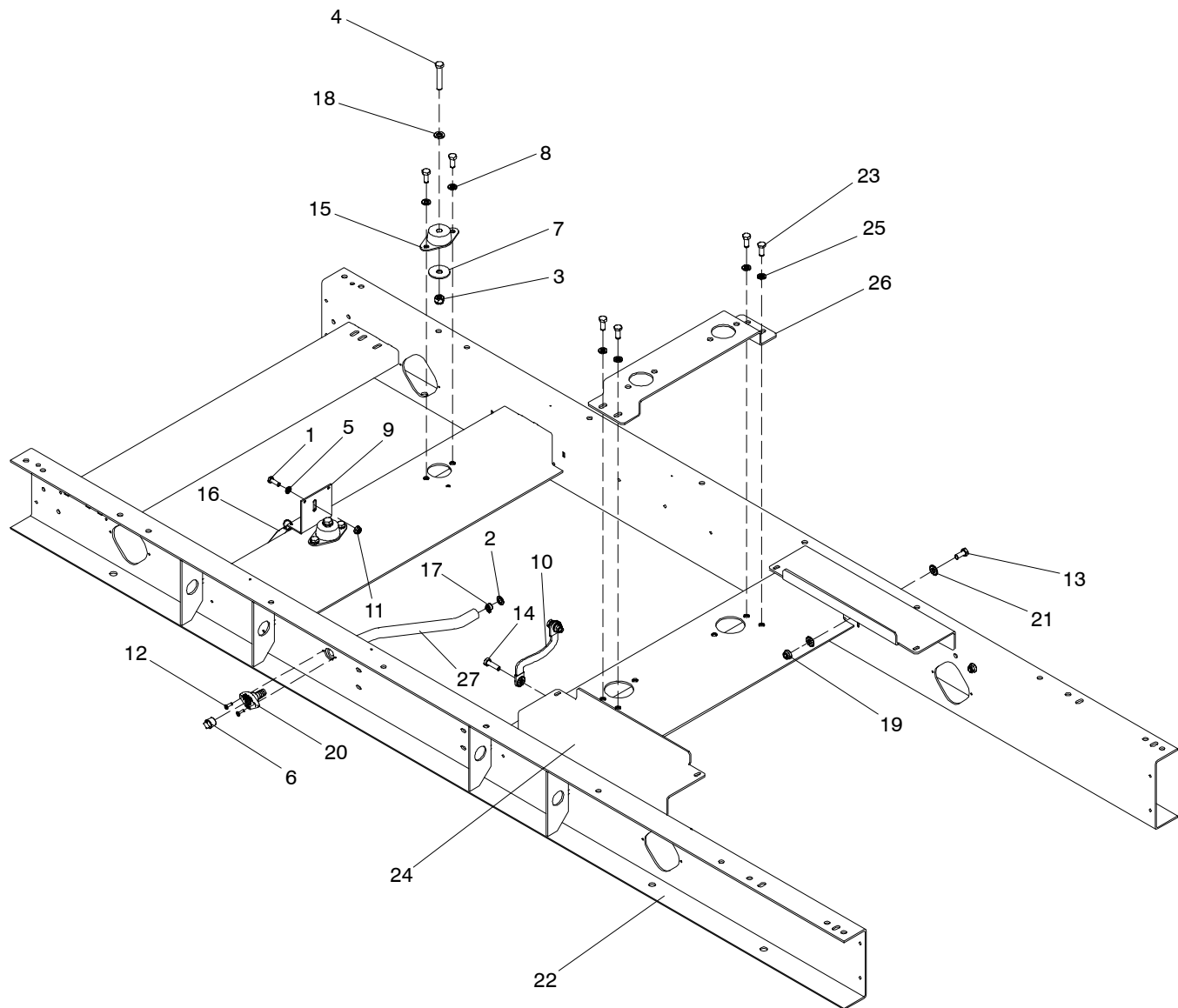
Group 109: Skid and Plant Mounting, continued

KG40- 60, GM104099-MA1

Item	Part Number	Description	Qty.
1	290418	Strap, Ground (8 in.)	1
2	GM28552	Tag, Hang shipping bracket	1
3	GM51689	Bracket, Shipping	1
4	GM65811	Support, Junction box	2
5	M125A-08-80	Washer, Plain 8.4 ID x 16 OD	2
6	M125A-10-80	Washer, Plain 10.5 ID x 20 OD	13
7	M6923-08-80	Nut, Hex 8 mm	2
8	M6923-10-80	Nut, Hex 10 mm	5
9	M931-12065-60	Screw, Hex cap	2
10	M933-08025-60	Screw, Hex cap	2
11	M933-10020-60	Screw, Hex cap	5
12	M933-10025-60	Screw, Hex cap	4
13	M933-10035-60	Screw, Hex cap	1
14	M982-12-80	Nut, Hex elastic stop	2
15	X-22-15	Washer, Lock	5
16	X-25-140	Washer, Plain, .531 ID x 2 in. OD	2
18	X-577-24	Hose, Rubber, straight, .62 in. ID	1
19	324073	Vibromount	2
20	GM104100	Skid, KG, 41 in.	1
21	GM59015	Fitting, Bulkhead drain	1
22	X-75-58	Plug, Pipe	1
23	X-426-10	Clamp, Hose, .5/1 in.	2
24	X-781-22	Rivet, Pop, .187 in	2

Group 109: Skid and Plant Mounting, continued

KG80(R) - KG125(R), GM104537-



GM104537- MA2 shown

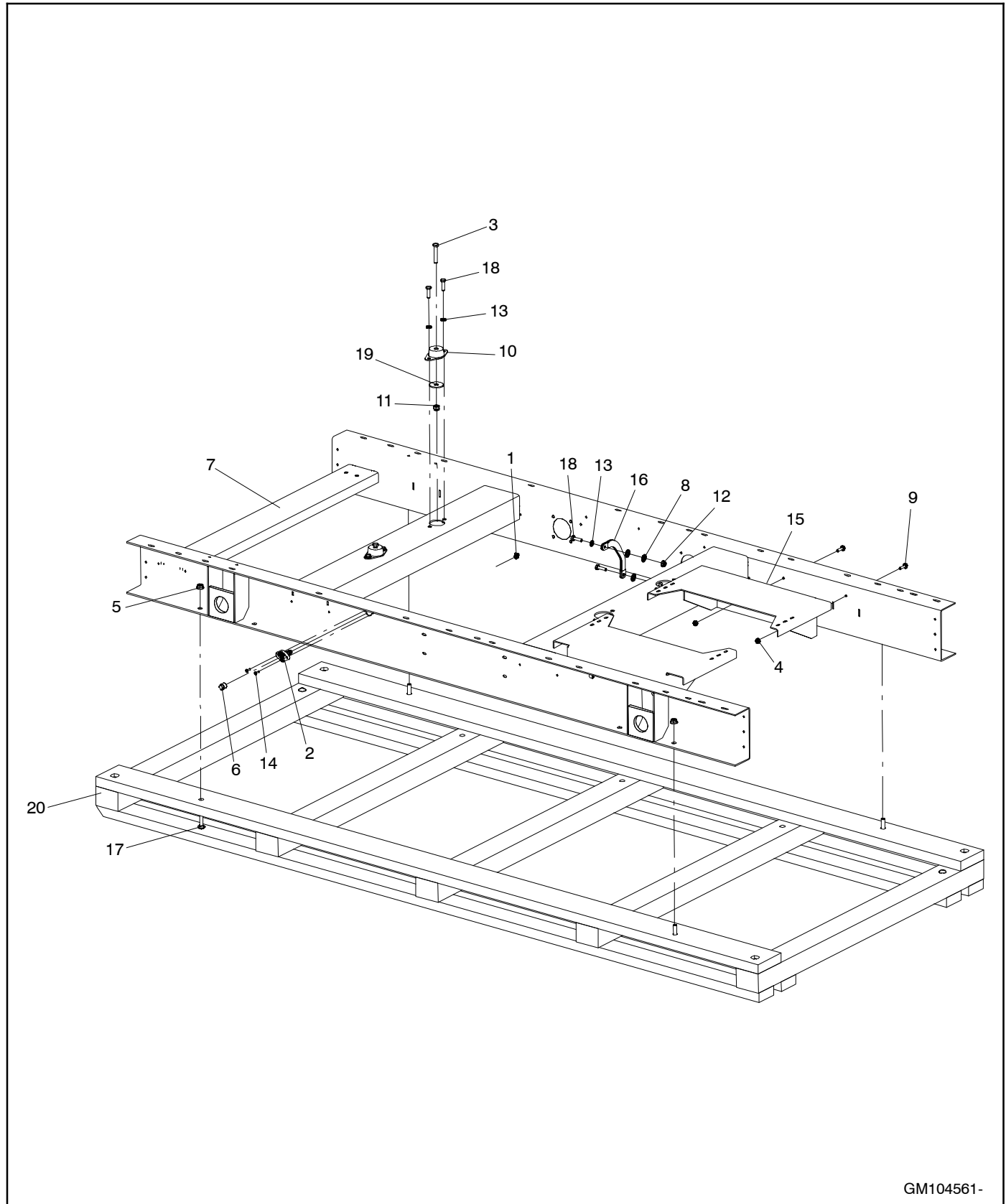
GM104537-

Group 109: Skid and Plant Mounting, continued

Item	Part Number	Description	KG80(R)- KG125(R), GM104537- Qty.	
			GM104537-MA1	GM104537-MA2
1	M933-08025-60	Screw, Hex cap M8 x 25	2	2
2	X-6278-9	Washer, Nylon, .48 ID x .825 in. OD	1	1
3	M982-12-80	Nut, Hex elastic stop	2	2
4	M931-12065-60	Screw, Hex cap M12 x 65	2	2
5	M125A-08-80	Washer, Plain 8.4 ID x 16.0 OD	2	2
6	X-75-58	Plug, Pipe	1	1
7	X-25-140	Washer, Plain, .531 ID x 2 in. OD	2	2
8	M125A-10-80	Washer, Plain 10.5 ID x 20.0 OD	10	10
9	GM51689	Bracket, Shipping	1	1
10	290418	Strap, Ground (11 in.)	2	2
11	M6923-08-80	Nut, Hex 8 mm	1	1
12	X-781-22	Rivet, Pop	2	2
13	M933-10025-60	Screw, Hex cap M10 x 25	8	8
14	M933-10035-60	Screw, Hex cap M10 x 35	2	2
15	324073	Vibromount	2	2
16	GM28552	Tag, Hang shipping brkt.	1	1
17	X-426-10	Clamp, Hose, .5/1 in.	2	2
18	M125A-12-80	Washer, Plain	2	2
19	M6923-10-80	Nut, Hex 10 mm	5	5
20	GM59015	Fitting, Bulkhead drain	1	1
21	X-22-15	Washer, Lock	5	5
22	GM104538	Skid, 44 in.	1	1
23	M933-10025-60	Screw, Hex cap M10 x 25		4
24	GM64117	Support, Junction box	2	
24	GM105307	Support, Junction box		2
25	M125A-10-80	Washer, Plain 10.5 ID x 20.0 OD		4
26	GM105209	Support, Alternator adapter		1
27	X-577-27	Hose, Rubber, Straight, .62 in. ID	1	1

Group 109: Skid and Plant Mounting, continued

KG150(R)-KG200, GM104561-MA1



GM104561-

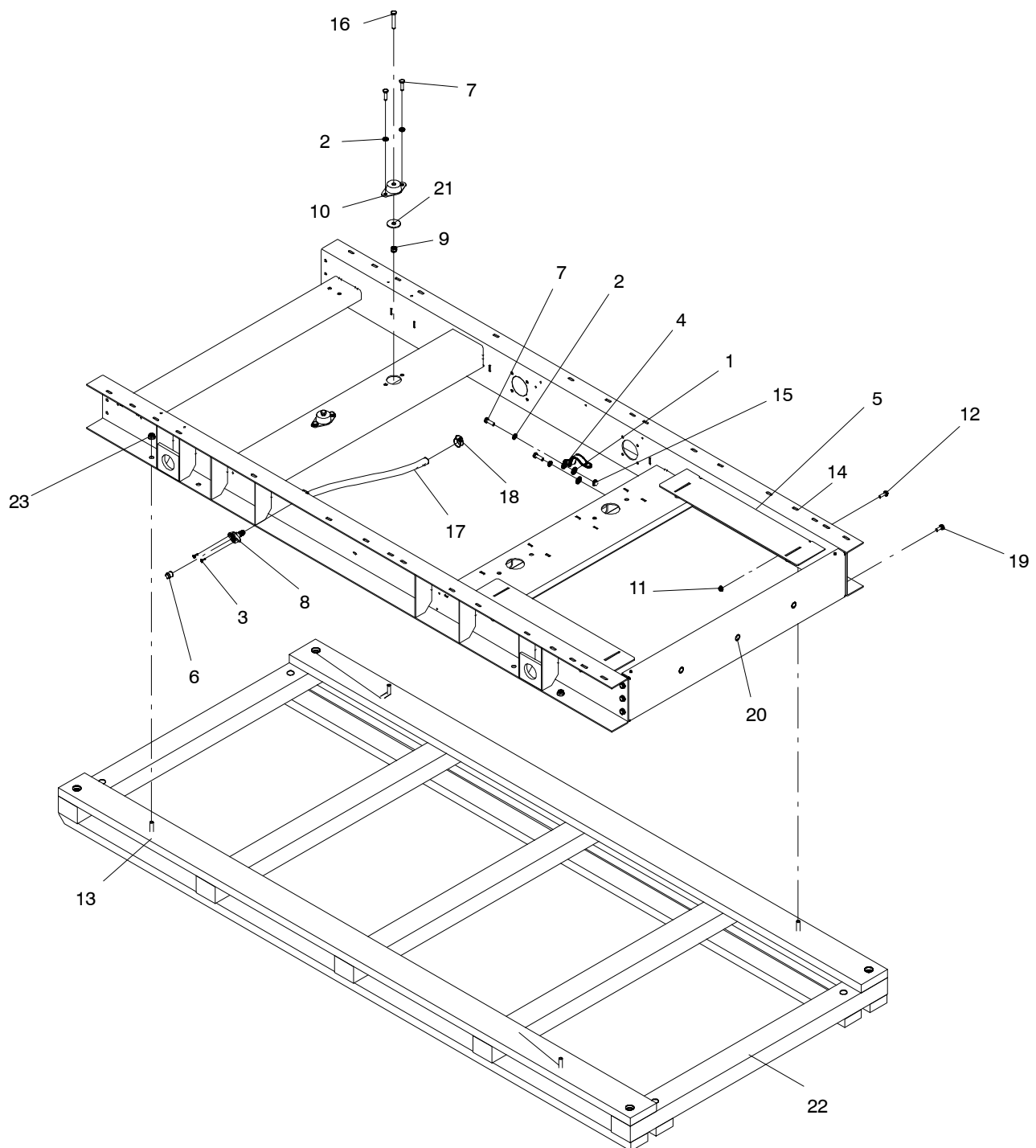
Group 109: Skid and Plant Mounting, continued

KG150(R)- KG200, GM104561-MA1

Item	Part Number	Description	Qty.
1	X-426-10	Clamp, hose, .5/1 in.	2
2	GM59015	Fitting, Bulkhead Drain	1
3	M931-12065-60	Screw, Hex Cap M12 X 65	2
4	M6923-08-80	Nut, Hex 8 mm	4
5	X-6210-12	Nut, flange spirallock, 1/2- 13	4
6	X-75-58	Plug, Pipe	1
7	GM107123	Skid, 4SX	1
8	X-22-15	Washer, lock, .456 ID x 1.058 in. OD	3
9	M6921-08030-60	Screw, Hex Flange (M8- 1.25 X 30 mm)	4
10	324074	Vibromount	2
11	M982-12-80	Nut, hex elastic stop	2
12	M6923-10-80	Nut, Hex 10 mm	1
13	M125A-10-80	Washer, Plain 10.5 ID x 20.0 OD	6
14	X-781-22	Rivet, Pop	2
15	GM104620	Brkt, Mounting, J- Box 4SX	2
16	290418	Strap, Ground (11 in.)	3
17	PNP-2002-30	Bolt, carriage (1/2- 13 x 3.00 in.)	4
18	M933-10035-60	Screw, Hex Cap M10 X 35	6
19	X-25-140	Washer, plain, .531 IDx2in.OD	2
20	GM105950	Base, Wood	1
21	X-577-24	Hose, rubber, straight, .62 in. ID	1

Group 109: Skid and Plant Mounting, continued

KG180-KG200, GM104563-MA1



GM104563-

Group 109: Skid and Plant Mounting, continued

KG180- KG200, GM104563-MA1

Item	Part Number	Description	Qty.
1	X-22-15	Washer, lock, .456 ID x 1.058 in. OD	3
2	M125A-10-80	Washer, Plain 10.5 ID x 20.0 OD	12
3	X-781-22	Rivet, Pop	2
4	290418	Strap, Ground (11 in.)	3
5	GM107197	Bracket, J- Box Mtg, 4UA	2
6	X-75-58	Plug, Pipe	1
7	M933-10035-60	Screw, Hex Cap M10 X 35	6
8	GM59015	Fitting, Bulkhead Drain	1
9	M982-12-80	Nut, hex elastic stop	2
10	324074	Vibromount	2
11	M6923-08-80	Nut, Hex 8 mm	6
12	M6921-08030-60	Screw, Hex Flange (M8- 1.25 X 30 mm)	6
13	PNP-2002-30	Bolt, carriage (1/2- 13 x 3.00 in.)	4
14	GM107124	Skid, 4UA	1
15	M6923-10-80	Nut, Hex 10mm	7
16	M931-12065-60	Screw, Hex Cap M12 X 65	2
17	X-577-24	Hose, rubber, straight, .62 in. ID	1
18	X-426-10	Clamp, hose, .5/1 in.	2
19	M933-10025-60	Screw, Hex Cap M10 X 25	6
20	GM106571**	Cap, Skid End	1
21	X-25-140	Washer, plain, .531 ID x 2 in. OD	2
22	GM105950	Base, Wood	1
23	X-6210-12	Nut, flange spiralock, 1/2- 13	4

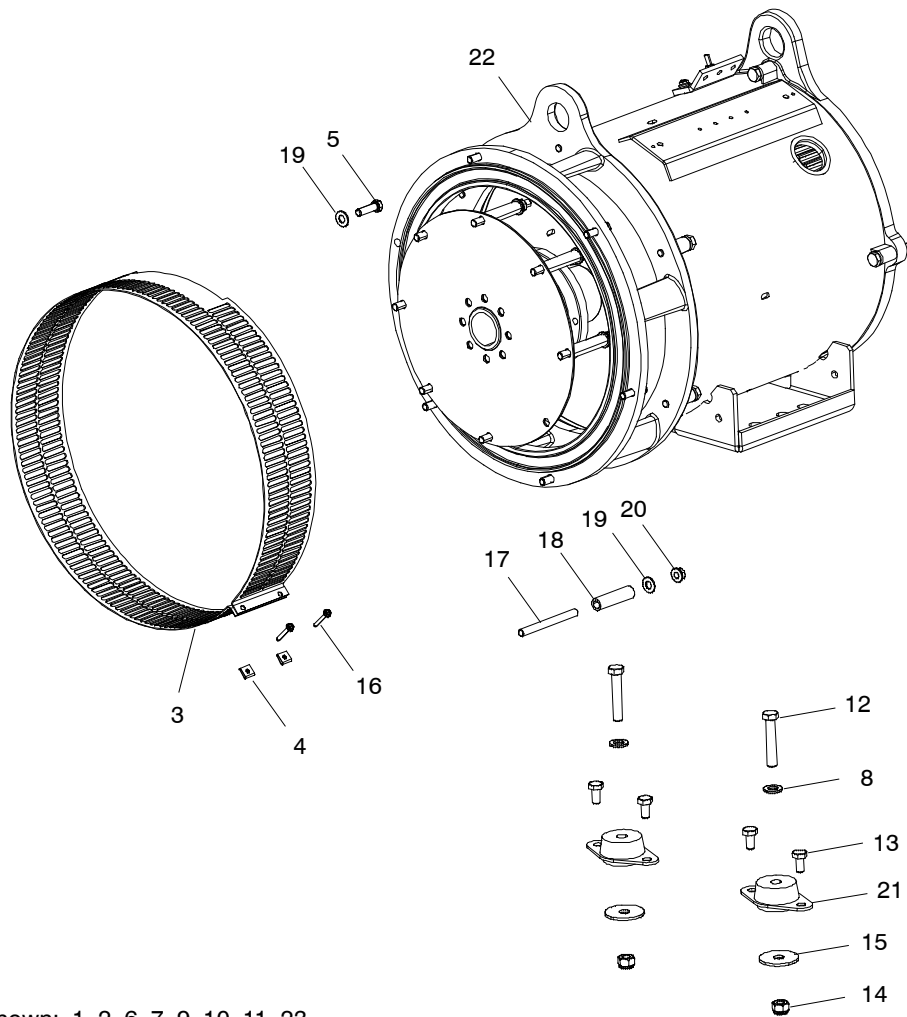
** Use the Module number and chart below to identify the color suffix.

Add a suffix to this color dependent part number before ordering.

Module No.	Color Dependant Parts	
	Part Number Suffix	Part Number Example (item 20)
GM104563-MA1-BLK	-BLK	GM106571-BLK

Group 201: Generator and Mounting

4P_X/4Q_X Alternator Modules GM77218-



Items not shown: 1, 2, 6, 7, 9, 10, 11, 23

GM77218

Item	Part Number	Description	Qty.
1	X-750-14	Marker, Wire L1 (not shown)	1
2	X-750-15	Marker, Wire L2 (not shown)	1
3	257046	Guard, Generator fan	1
4	257442	Clip, Speed	2
5	270956	Screw, 3/8-16 x 1 1/4, (4P, 4Q alternator)	6
6	GM98936	Spacer, Enhanced FRX Actuator (not shown)	1
7	GM98939-1	PCB Assy. (not shown)	1
8	M125A-12-80	Washer, Plain	2
9	M4014-10050-60	Screw, Hex cap	6
10	M4017-10065-60	Screw, Hex cap	4
11	M7500CE-05020-85	Screw, Metric thread	6
12	M931-12065-60	Screw, Hex cap	2
13	M933-10020-60	Screw, Hex cap	4
14	M982-12-80	Nut, Hex elastic stop	2
15	X-25-140	Washer, Plain, 0.531 ID x 2 in. OD	2
16	X-67-125	Screw, Hex washer, thread-forming	2
17	X-352-63	Stud, 3/8-16 x 4 in.	8
18	X-400-132	Spacer, 0.406 ID x 0.625 OD x 2.531 in.	8
19	X-801-3	Washer, Hardened, 0.406 ID x 0.812 OD	14
20	X-6210-9	Nut, Flange spirallock, 3/8-16	8
21	See chart page 37	Vibromount	2
22	See chart page 37	Alternator assembly	1
23	See chart page 37	Marker, Wire (not shown)	1

Group 201: Generator and Mounting

4P_X/4Q_X Alternator Modules GM77218- Alternator Module Parts

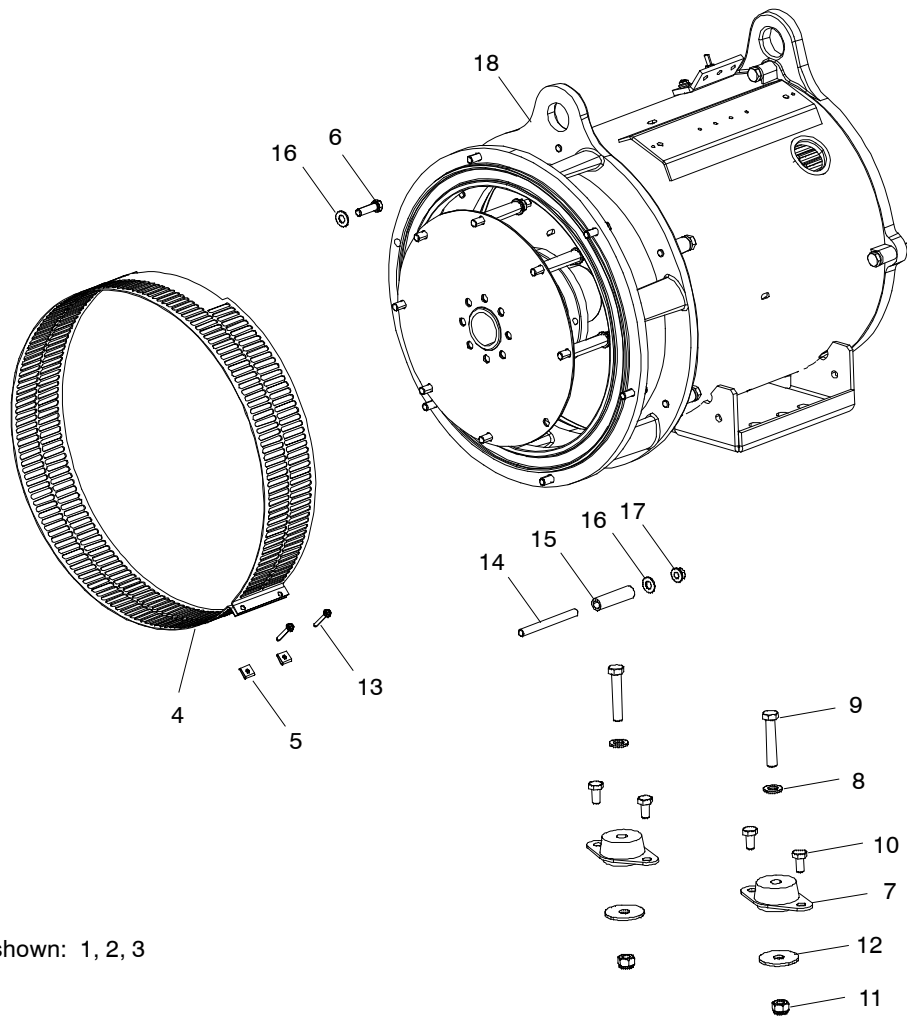
Use this table to identify the module number's alternator part number and vibromount part number.

Module No.	Alternator Description	Item 21	Item 22	Item 23
GM77218-MA4	4P5X	276310	GC70113-8	X-750-16
GM77218-MA5	4P5X, 600 V	276310	GC70113-10	X-750-16
GM77218-MA6	4Q5X	276310	GC70113-12	-
GM77218-MA7	4P7BX	324073	GC70113-20	X-750-16
GM77218-MA8	4P7BX, 600 V	324073	GC70113-22	X-750-16
GM77218-MA9	4Q7BX	324073	GC70113-24	-
GM77218-MA10	4P10X	324074	GC70113-32	X-750-16
GM77218-MA11	4P10X, 600 V	324074	GC70113-35	X-750-16
GM77218-MA12	4Q10X	324074	GC70113-38	-
GM77218-MA13	4P8X	324073	GC70113-26	X-750-16
GM77218-MA14	4P8X, 600 V	324073	GC70113-28	X-750-16
GM77218-MA15	4Q8X, 600 V	324073	GC70113-30	-

Alternator assembly includes items on pages 40- 42.

Group 201: Generator and Mounting, continued

4P10X Alternator Modules GM78276-



GM78276

Item	Part Number	Description	Qty.
1	X-750-14	Marker, Wire L1 (not shown)	1
2	X-750-15	Marker, Wire L2 (not shown)	1
3	X-750-16	Marker, Wire L3 (not shown)	1
4	257046	Guard, Generator fan	1
5	257442	Clip, Speed	2
6	270158	Bolt, Hex Cap	6
7	See chart page 39	Vibromount	2
8	M125A-12-80	Washer, Plain	2
9	M931-12065-60	Screw, Hex cap	2
10	M933-10020-60	Screw, Hex cap	4
11	M982-12-80	Nut, Hex elastic stop	2
12	X-25-140	Washer, Plain, 0.531 ID x 2 in. OD	2
13	X-67-125	Screw, Hex washer, thread-forming	2
14	X-352-63	Stud, 3/8-16 x 4 in.	8
15	X-400-132	Spacer, 0.406 ID x 0.625 OD x 2.531 in.	8
16	X-801-3	Washer, Hardened, 0.406 ID x 0.812 OD	14
17	X-6210-9	Nut, Flange spiralock, 3/8-16	8
18	See chart page 39	Alternator assembly	1

Group 201: Generator and Mounting, continued

4P10X Alternator Modules GM78276- Alternator Module Parts

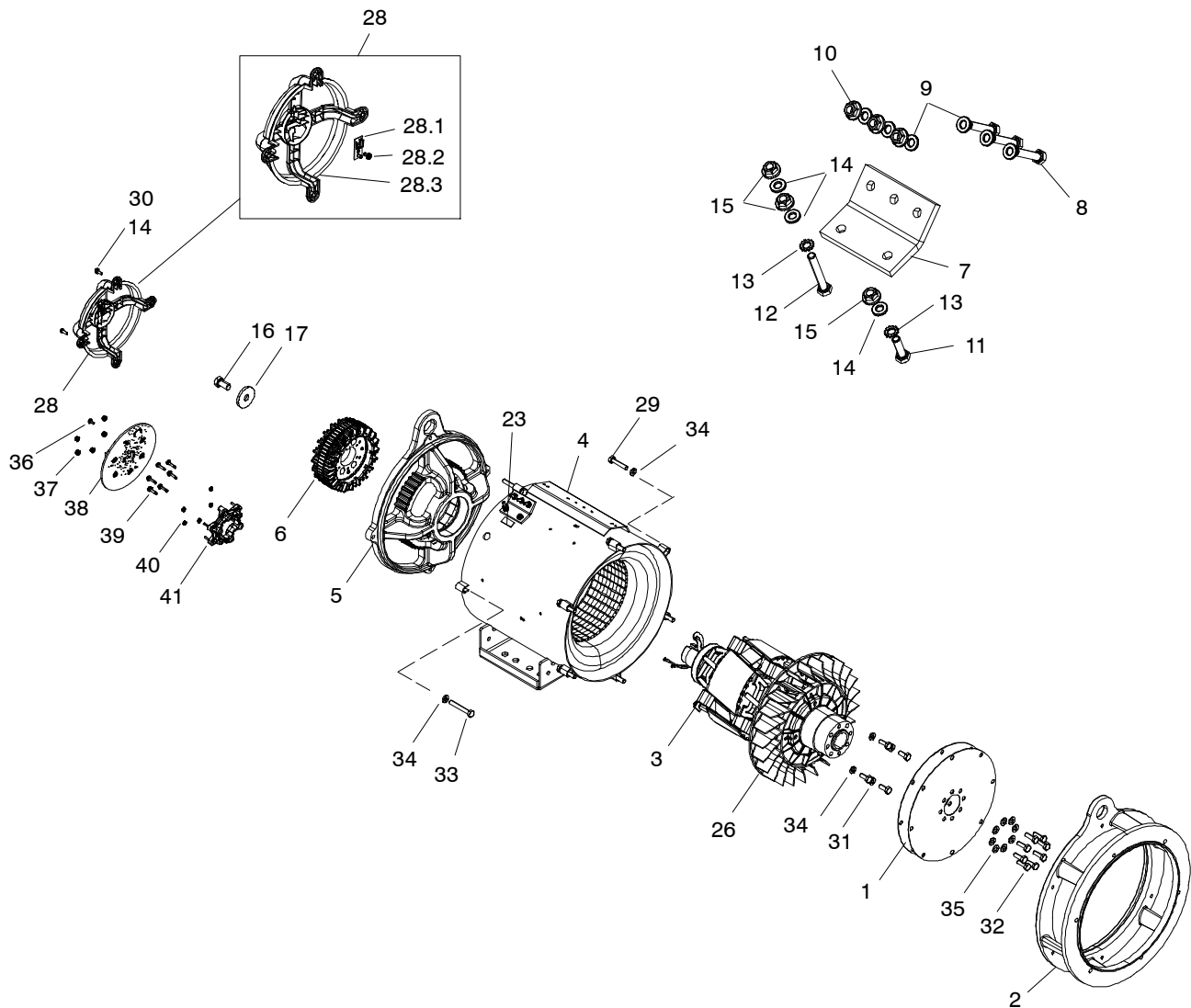
Use this table to identify the module number's alternator part number and vibromount part number.

Module No.	Alternator Description	Item 7, Vibromount	Item 18, Alternator Assembly
GM78276-MA1	4P10X	324075	GC70113-33
GM78276-MA2	4P10X, 600 V	324075	GC70113-36

Alternator assembly includes items on pages 40- 42.

Group 201: Generator and Mounting, continued

4P_X/4Q_X Alternators GC70113-



GC70113

Group 201: Generator and Mounting, continued

4P_X/4Q_X Alternators GC70113-

Item	Part No.	Description	Qty.
1	See chart	Disc, Drive	2
2	See chart	Adapter, Generator	1
3	See chart	Rotor Assembly	1
4	See chart	Stator Assembly	1
5	See chart	Bracket Assembly, End	1
6	See chart	Exciter Armature, SCR	1
7	See chart	Bus, Ground	1
8	See chart	Screw, Hex Cap	3
9	See chart	Washer, Plain	6
10	See chart	Nut, Hex	3
11	M933-06020-60	Screw, Hex cap	1
12	M933-06040-60	Screw, Hex cap	1
13	M6797A-06-SS	Washer, Internal & External Tooth	2
14	M125A-06-80	Washer, Plain	7
15	M6923-06-80	Nut, Hex 6mm	3
16	M933-16030-82	Screw, Hex cap	1
17	GM70070	Washer, FRX Exciter Mtg	1
23	344295	Decal, Equipment grd	1
26	347697	Fan, Alternator	1
28	GM74218	Holder Assy, LED Optic Board	1
28.1	GM74198	PCB Assy, Alt. LED Optic Board	1
28.2	M7500C-05010-83	Screw, Thread Forming Metric	1
28.3	GM74110	Holder, LED Optic Board	1
29	M4014-10050-60	Screw, Hex cap	6
30	M933-06016-60	Screw, Hex cap, M6x16mm, js500 full thrd	4
31	M933-10025-60	Screw, Hex cap, fully thrd M10 x 25mm EXP	4
32	M933-10030-82	Screw, Hex cap	8
33	M4017-10065-60	Screw, Hex Cap	4
34	X-25-93	Washer, Plain .406 ID x .75 in. OD	14
35	X-801-3	Washer, Hardened, .406 ID x .812 in. OD	8
36	X-6071-8	Screw, Thread Forming	1
37	M985-04-SS	Nut, Hex Elastic Stop	5
38	GM98939-1	PCB Assy, FRX Activator, 6-Hole	1
39	M7500CE-05020-85	Screw, Metric Thread Forming	6
40	M934-04-SS	Nut, Hex (Stainless Steel)	5
41	GM98936	Spacer, Enhanced FRX Activator	1

Group 201: Generator and Mounting, continued

4P_X/4Q_X Alternators GC70113-

Alternator Part Numbers and Components

Use this table to identify part numbers of items 1- 5.

Alternator No.	Item/Part Number				
	Item 1, Drive Disc	Item 2, Adapter	Item 3, Rotor Assy.	Item 4, Stator Assy.	Item 5, End Bracket
GC70113-8	257015	GM32006	GC70100-2	GC70110-2	GM70080-1
GC70113-10	257015	GM32006	GC70100-2	GC70111-2	GM70080-1
GC70113-12	257015	GM32006	GC70100-2	GC70112-2	GM70080-1
GC70113-20	257015	GM32006	GC70100-4	GC70110-4	GM70080-2
GC70113-22	257015	GM32006	GC70100-4	GC70111-4	GM70080-2
GC70113-24	257015	GM32006	GC70100-4	GC70112-4	GM70080-2
GC70113-26	257015	GM32006	GC70100-5	GC70110-5	GM70080-2
GC70113-28	257015	GM32006	GC70100-5	GC70111-5	GM70080-2
GC70113-30	257015	GM32006	GC70100-5	GC70112-5	GM70080-2
GC70113-32	257015	GM32006	GC70100-6	GC70110-6	GM70080-2
GC70113-33	257016	GM32006	GC70100-7	GC70110-6	GM70080-2
GC70113-35	257015	GM32006	GC70100-6	GC70111-6	GM70080-2
GC70113-36	257016	GM32006	GC70100-7	GC70111-6	GM70080-2
GC70113-38	257015	GM32006	GC70100-6	GC70112-6	GM70080-2

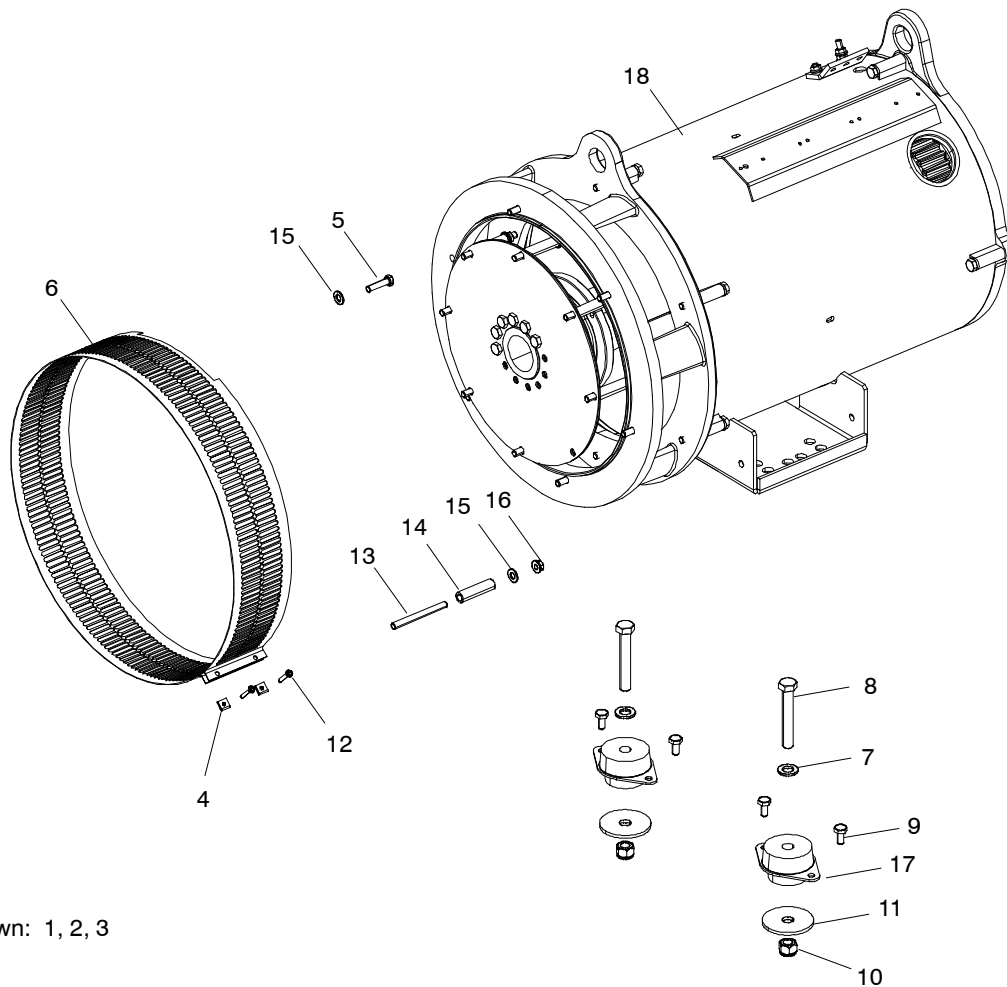
Use this table to identify part numbers of items 6- 10.

Alternator No.	Item/Part Number				
	Item 6, Exciter	Item 7, Ground Bus	Item 8, Screws	Item 9, Washers	Item 10, Nuts
GC70113-8	GC70064-1	257986	M933-06030-60	M125A-06-80	M6923-06-80
GC70113-10	GC70064-1	257986	M933-06030-60	M125A-06-80	M6923-06-80
GC70113-12	GC70064-1	257985	M933-08030-60	M125A-08-80	M6923-08-80
GC70113-20	GC70064-2	257986	M933-06030-60	M125A-06-80	M6923-06-80
GC70113-22	GC70064-2	257986	M933-06030-60	M125A-06-80	M6923-06-80
GC70113-24	GC70064-2	257985	M933-08030-60	M125A-08-80	M6923-08-80
GC70113-26	GC70064-2	257986	M933-06030-60	M125A-06-80	M6923-06-80
GC70113-28	GC70064-2	257986	M933-06030-60	M125A-06-80	M6923-06-80
GC70113-30	GC70064-2	257985	M933-08030-60	M125A-08-80	M6923-08-80
GC70113-32	GC70064-2	257986	M933-06030-60	M125A-06-80	M6923-06-80
GC70113-33	GC70064-2	257986	M933-06030-60	M125A-06-80	M6923-06-80
GC70113-35	GC70064-2	257986	M933-06030-60	M125A-06-80	M6923-06-80
GC70113-36	GC70064-2	257986	M933-06030-60	M125A-06-80	M6923-06-80
GC70113-38	GC70064-2	257985	M933-08030-60	M125A-08-80	M6923-08-80

Notes

Group 201: Generator and Mounting, continued

4R_X/4T_X Alternator Modules GM77540-



GM77540

Item	Part Number	Description	Qty.
1	X-750-14	Marker, Wire L1 (not shown)	1
2	X-750-15	Marker, Wire L2 (not shown)	1
3	X-750-16	Marker, Wire L3 (not shown)	1
4	257442	Clip, Speed	2
5	270158	Bolt, Hex Cap	6
6	GM70117	Guard, Generator fan	1
7	M125A-16-80	Washer, Plain	2
8	M931-16100-60	Screw, Hex cap	2
9	M933-10020-60	Screw, Hex cap	4
10	M982-16-80	Nut, Hex elastic stop	2
11	X-25-112	Washer, Plain	2
12	X-67-125	Screw, Hex washer, thread-forming	2
13	X-352-63	Stud, 3/8-16 x 4 in.	8
14	X-400-132	Spacer, 0.406 ID x 0.625 OD x 2.531 in.	8
15	X-801-3	Washer, Hardened, 0.406 ID x 0.812 OD	14
16	X-6210-9	Nut, Flange spiralock, 3/8-16	8
17	See chart page 45	Vibromount	2
18	See chart page 45	Alternator assembly	1

Group 201: Generator and Mounting, continued

4R_X/4T_X Alternator Modules GM77540- Alternator Module Parts

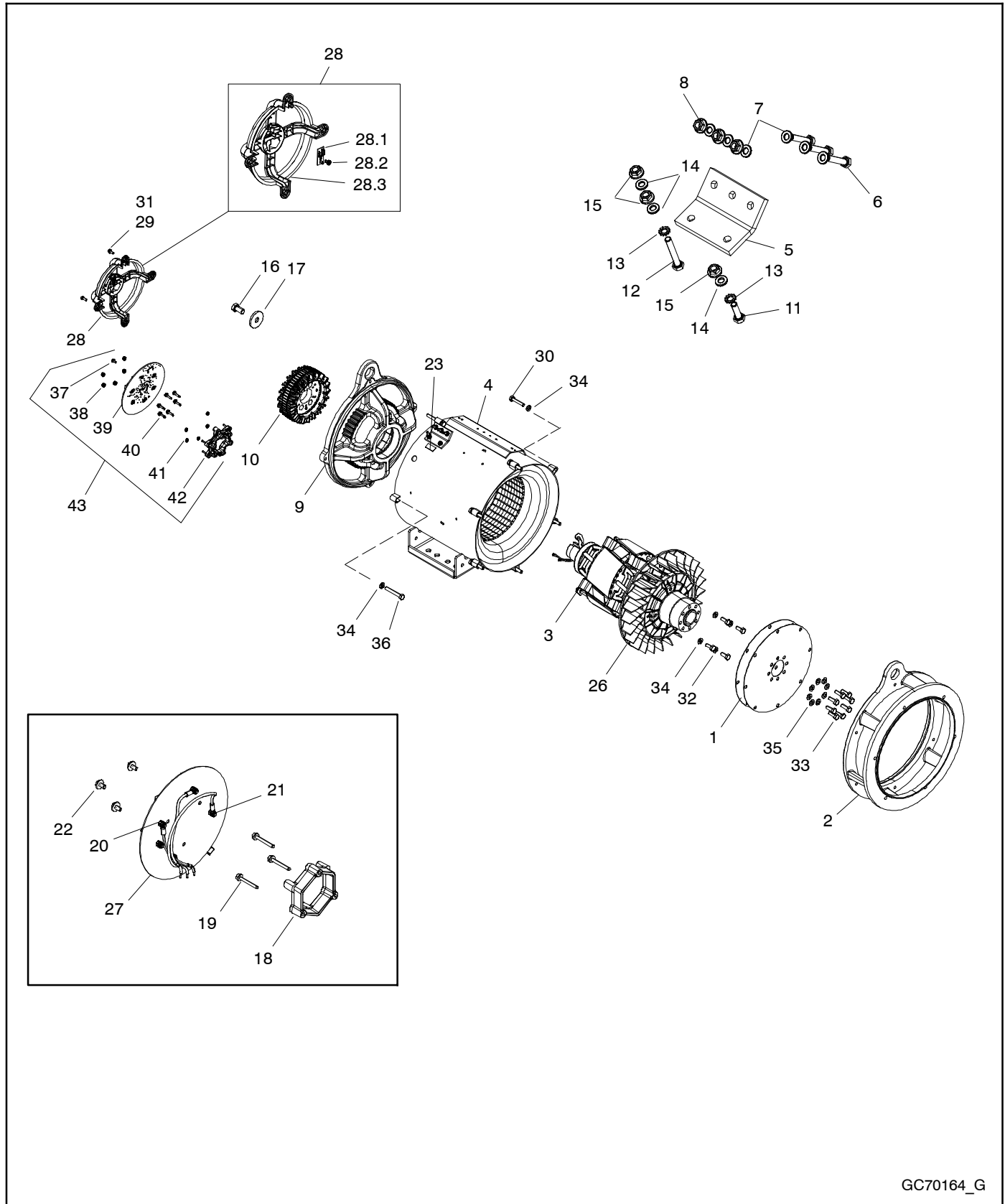
Use this table to identify the module number's alternator part number and vibromount part number.

Module No.	Alternator Description	Item 17, Vibromount	Item 18, Alternator Assembly
GM77540-MA1	4R9X	336813	GC70164-2
GM77540-MA2	4R9X, 600 V	336813	GC70164-4
GM77540-MA3	4R12X	324391	GC70164-8
GM77540-MA4	4R12X, 600 V	324391	GC70164-11
GM77540-MA5	4R13X	336024	GC70164-17
GM77540-MA6	4R13X, 600 V	336024	GC70164-21
GM77540-MA8	4T13X	336024	GC70164-25
GM77540-MA9	4T9X	336813	GC70164-6

Alternator assembly includes items on pages 46- 47.

Group 201: Generator and Mounting, continued

4R_X/4T_X Alternators GC70164-



GC70164_G

Group 201: Generator and Mounting, continued

4R_X/4T_X Alternators GC70164-

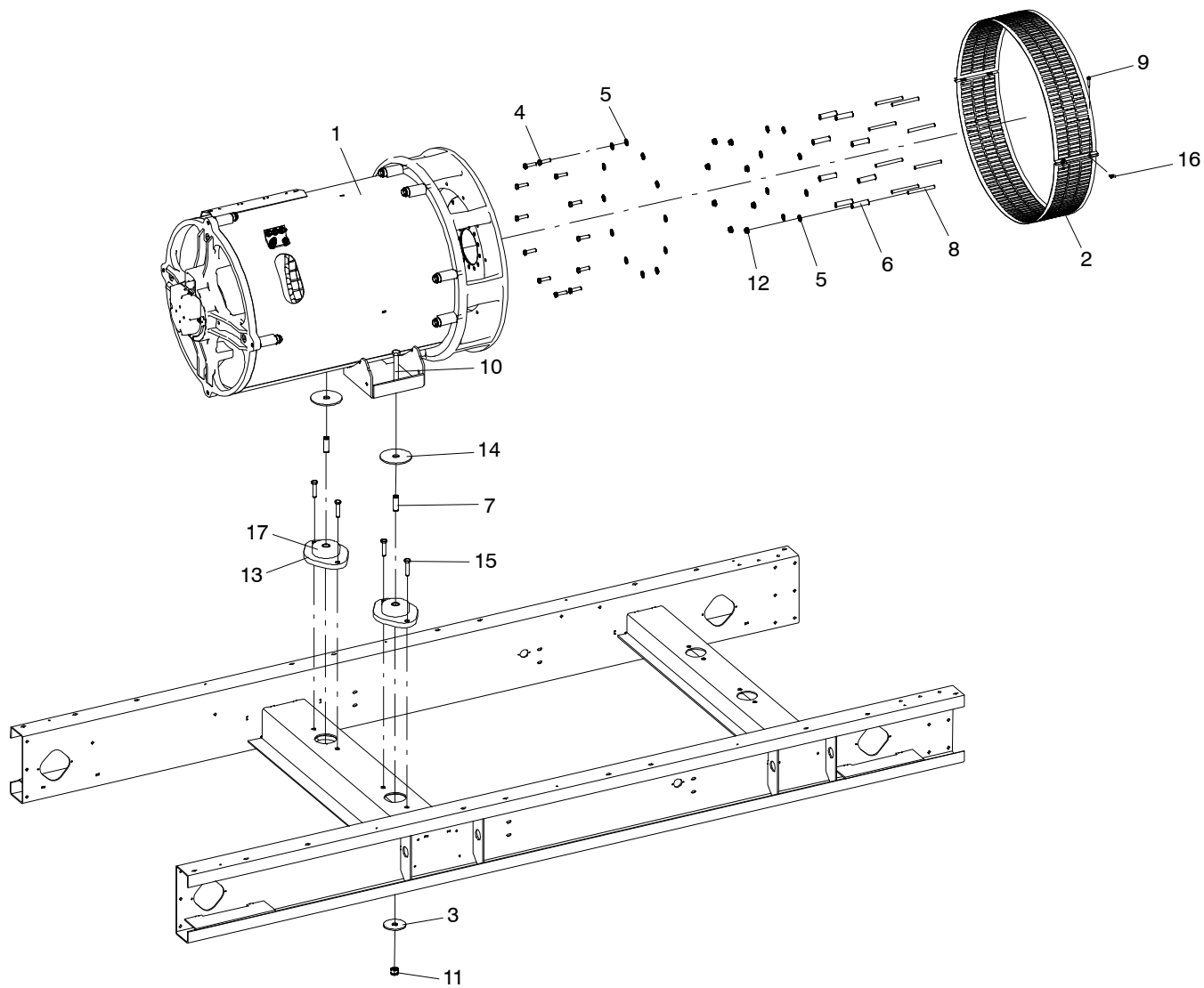
Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	See chart	Disc, Drive	3	28	GM74218	Holder Assy, LED Optic Board	1
2	See chart	Adapter, Generator	1	28.1	GM74198	PCB ASSY, Alt. LED Optic Board	1
3	See chart	Rotor Assembly	1	28.2	M7500C-05010-83	Screw, Thread Forming Metric	1
4	See chart	Stator Assembly	1	28.3	GM74110	Holder, LED Optic Board	1
5	See chart	Bus, Ground	1	29	M125A-06-80	Washer, Plain	4
6	See chart	Screw, Hex Cap	3	30	M4014-10080-60	Screw, Hex cap	6
7	See chart	Washer, Plain	6	31	M933-06016-60	Screw, Hex cap, M6x16mm, js500 full thrd	4
8	See chart	Nut, Hex	3	32	M933-10025-60	Screw, Hex cap, fully thrd M10 x 25mm EXP	4
9	GM70116	Bracket Assembly, End	1	33	M933-10030-82	Screw, Hex cap	12
10	GC70064-3	Exciter Armature, SCR	1	34	X-25-93	Washer, Plain .406 ID x .75 in. OD	14
11	M933-08025-60	Screw, Hex cap	1	35	X-801-3	Washer, Hardened, .406 ID x .812 in. OD	12
12	M933-08045-60	Screw, Hex cap	1	36	M4017-10100-60	Screw, Hex cap	4
13	M6797A-08-SS	Washer, Internal & External Tooth	2	37	X-6071-8	Screw, Thread Forming	1
14	M125A-08-80	Washer, Plain	3	38	M985-04-SS	Nut, Hex Elastic Stop	5
15	M6923-08-80	Nut, Hex 8mm	3	39	GM98939-1	PCB Assy, FRX Activator, 6-Hole	1
16	M933-16030-82	Screw, Hex cap	1	40	M7500CE-05020-85	Screw, Metric Thread Forming	6
17	GM70070	Washer, FRX Exciter Mtg	1	41	M934-04-SS	Nut, Hex (Stainless Steel)	5
18	GM96975	Spacer, FRX Activator (3-Hole)	1	42	GM98936	Spacer, Enhanced FRX Activator	1
19	M7500D-05035-85	Screw, Metric Thread Forming	3	43	GM101821-S	Service Kit, FRX Activator Board (for replacing 3-hole activator board on units before alternator serial number 96779)	1
20	M934-04-SS	Nut, Hex (Stainless Steel)	5				
21	M985-04-SS	Nut, Hex Elastic Stop	5				
22	X-6071-8	Screw, Thread Forming	3				
23	344295	Decal, Equipment grd	1				
26	GM81609	Fan, Alternator	1				
27	-	PCB Assy, Alternator Activator (3-hole) (Order item 43)	1				

Use this table to identify part numbers of items 1-8.

Alternator No.	Item/Part Number							
	Item 1, Drive Disc	Item 2, Adapter	Item 3, Rotor Assy.	Item 4, Stator Assy.	Item 5, Ground Bus	Item 6, Screws	Item 7, Washers	Item 8, Nuts
GC70164-2	257103	GM81773	GC70145-2	GC70161-1	257985	M933-08030-60	M125A-08-80	M6923-08-80
GC70164-4	257103	GM81773	GC70145-2	GC70162-1	257985	M933-08030-60	M125A-08-80	M6923-08-80
GC70164-6	257103	GM81773	GC70145-2	GC70163-1	257978	M933-10030-60	M125A-10-80	M6923-10-80
GC70164-8	257103	GM81773	GC70145-4	GC70161-2	257985	M933-08030-60	M125A-08-80	M6923-08-80
GC70164-11	257103	GM81773	GC70145-4	GC70162-2	257985	M933-08030-60	M125A-08-80	M6923-08-80
GC70164-17	257103	GM81773	GC70145-7	GC70161-3	257985	M933-08030-60	M125A-08-80	M6923-08-80
GC70164-18	257103	GM81774	GC70145-7	GC70161-3	257985	M933-08030-60	M125A-08-80	M6923-08-80
GC70164-21	257103	GM81773	GC70145-7	GC70162-3	257985	M933-08030-60	M125A-08-80	M6923-08-80
GC70164-22	257103	GM81774	GC70145-7	GC70162-3	257985	M933-08030-60	M125A-08-80	M6923-08-80
GC70164-25	257103	GM81773	GC70145-7	GC70163-3	257978	M933-10030-60	M125A-10-80	M6923-10-80
GC70164-26	257103	GM81774	GC70145-7	GC70163-3	257978	M933-10030-60	M125A-10-80	M6923-10-80

Group 201: Generator and Mounting, continued

4UA9/4UA13 GM104872-



Items not shown: 18, 19, 20, 21

GM104872-

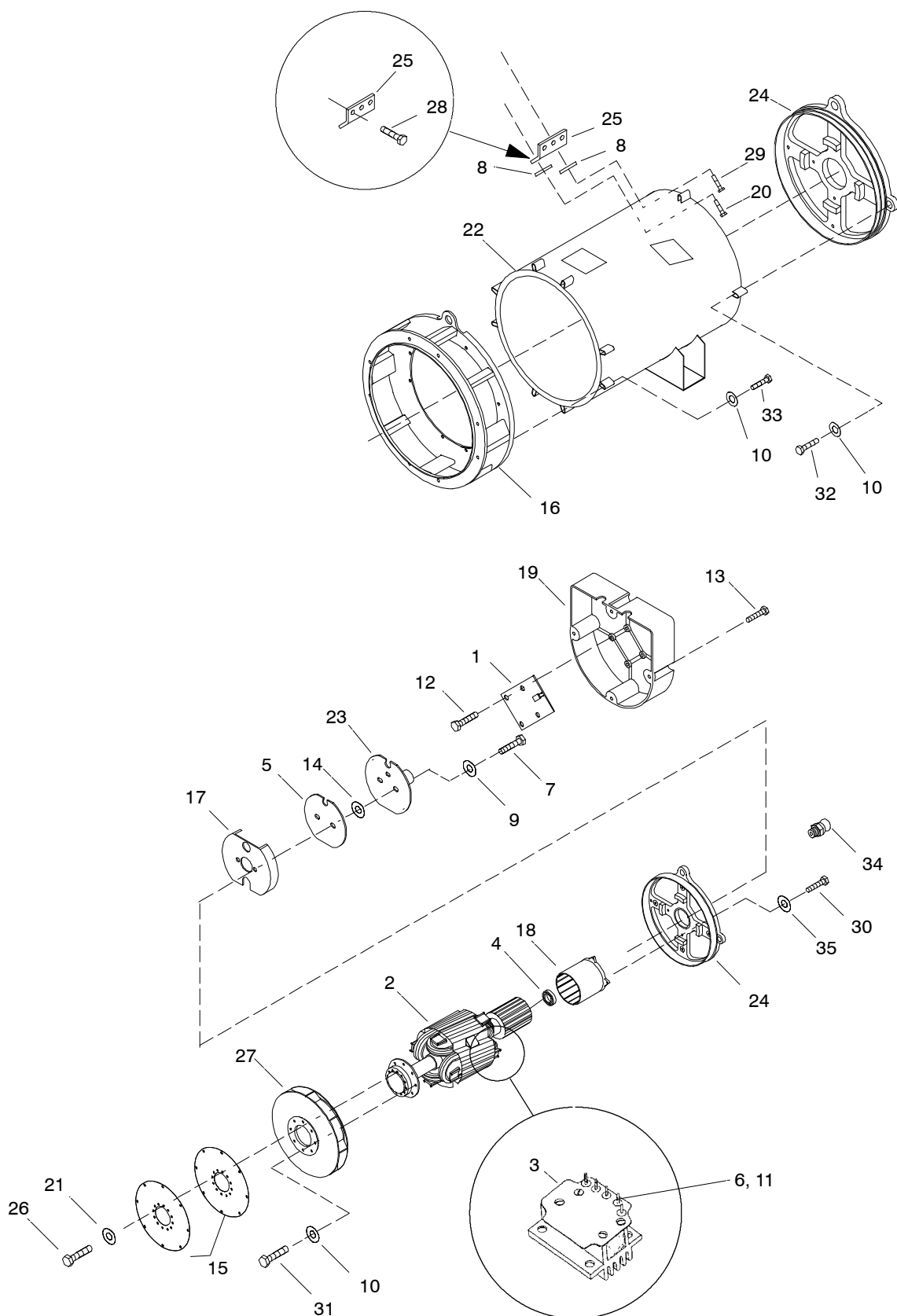
Group 201: Generator and Mounting, continued

4UA9/4UA13 GM104872-

Item	Part No.	Description	Qty.			
			GM104872			
			- MA1	- MA2	- MA3	- MA4
1	GC58673-11	Alternator Assy, 4UA9 3PH SAE 11.5 #2	1			
1	GC58673-12	Alternator Assy, 4UA9 600V SAE 11.5 #2		1		
1	GC58673-15	Alternator Assy, 4UA13 3PH SAE 11.5 #2			1	
1	GC58673-16	Alternator Assy, 4UA13 600V SAE 11.5 #2				1
2	347268	Guard, generator fan	2	2	2	2
3	X-25-112	Washer, plain	2	2	2	2
4	270158	Bolt, Hex Cap	12	12	12	12
5	X-801-3	Washer, hardened,.406 ID x .812 in. OD	20	20	20	20
6	X-400-132	Spacer,.406 ID x .625 OD x 2.531 in	8	8	8	8
7	X-400-251	Spacer	2	2	2	2
8	X-352-63	Stud, 3/8- 16 x 4 in.	8	8	8	8
9	X-67-125	Screw, hex washer, thread-forming	4	4	4	4
10	M931-16100-60	Screw, Hex Cap M16 X 100	2	2	2	2
11	M982-16-80	Nut, Hex Elastic Stop	2	2	2	2
12	X-6210-9	Nut, flange spirallock, 3/8- 16	8	8	8	8
13	354717	Plate, generator mounting	2	2	2	2
14	X-25-150	Washer, plain, .8 ID x 4.25 in. OD	2	2	2	2
15	M931-12050-60	Screw, Hex Cap M12 X 50	4	4	4	4
16	257442	Clip, speed	4	4	4	4
17	354622	Vibromount	2	2	2	2
18	X-750-14	Marker, wire	1	1	1	1
19	X-750-15	Marker, wire	1	1	1	1
20	X-750-16	Marker, wire	1	1	1	1
21	58000 00051	Lubricant, Rubber	1	1	1	1

Group 201: Generator and Mounting, continued

4UA Alternators GC58673-



6102_201_2

Group 201: Generator and Mounting, continued

4UA Alternators GC58673-

Item	Part No.	Description	Qty.
1	B-257099	PCB assembly, LED, FRII	1
2	See chart below	Rotor assembly	1
3	B-354299	Heatsink	1
4	X-758-9	Bearing, ball	1
5	GM34505	PCB assembly, photo receiver	1
6	X-101-24	Nut, hex elastic stop, 6-32	5
7	X-117-5	Screw, hex head machine	2
8	X-22-46	Washer, lock, 0.391 ID x 0.975 in. OD	2
9	X-22-9	Washer, lock, 0.20 ID x 0.373 in. OD	2
10	X-25-93	Washer, plain, 0.406 ID x 0.75 in. OD	8
10	290945	Washer, hardened, 0.531 ID x 1.06 in. OD (under head of bolt)	12
11	X-431-25	Terminal, fast-on, female	4
12	X-6071-1	Screw, Phillips pan head	4
13	X-67-133	Screw, hex washer, thread-forming	3
14	243321	Washer, insulating, 0.195 ID x 0.5 in.	2
15	222881	Disc, drive	4
16	347241	Adapter, generator	1
17	257077	Actuator, magnetic cup	1
18	GC347707	Exciter field assembly	1
19	257258	Cover, FR LED circuit board	1
20	X-791-6	Screw, hex head machine	1
21	X-801-3	Washer, hardened, 0.406 ID x 0.812 in.	12
22	See chart below	Stator assembly	1
23	257850	Insulator	1
24	347236	Bracket, end	1
25	See chart below	Connector, lead	1
26	270158	Bolt, hex cap	12
27	257855	Fan, alternator	1
28	X-6238-5	Screw, hex cap	3
29	X-6238-11	Screw, hex cap	1
30	X-6238-17	Screw, hex cap	4
31	X-6238-11	Screw, hex cap	8
32	X-129-25	Screw, hex cap	4
33	X-129-25	Screw, hex cap	8
34	347119	Fitting, grease	1
35	X-801-3	Washer, hardened, 0.406 ID x 0.812 in.	4

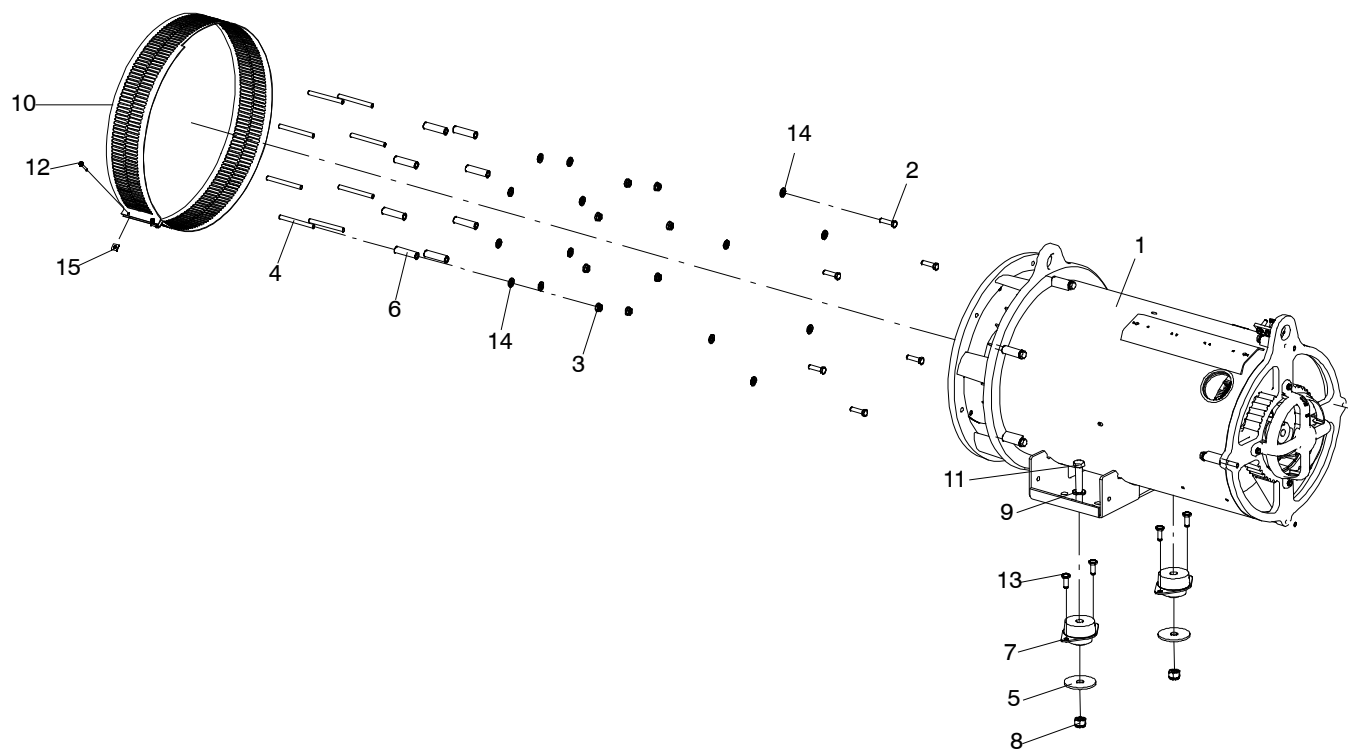
Alternator Part Number and Mount Type

Use this table to identify the part numbers of items 2, 22, and 25.

Alternator No.	Assembly		
	Item 2, Rotor Assembly	Item 22, Stator Assembly	Item 25, Lead Connector
GC58673-11	GCA-347191	GC58670-2	257978
GC58673-12	GCA-347191	GC58671-2	257978
GC58673-15	GCA-365222	GC58670-4	257979
GC58673-16	GCA-365222	GC58671-4	257978

Group 201: Generator and Mounting, continued

4R_X/4S_X/4T_X GM106512-



Items not shown: 16, 17, 18, 19

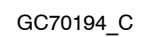
GM106512-

Group 201: Generator and Mounting, continued

4R_X/4S_X/4T_X GM106512-

Item	Part No.	Description	Qty.						
			GM106512						
			- MA1	- MA2	- MA3	- MA4	- MA5	- MA6	- MA7
1	GC70164-18	Alternator Assy, 4R13X (SAE 11.5 in., #2)	1						
1	GC70164-22	Alternator Assy, 4R13X (SAE 11.5 in., #2, 600V)		1					
1	GC70164-26	Alternator Assy, 4T13X (SAE 11.5 in., #2)			1				
1	GC70194-2	Alternator Assy, 4S12X (SAE 11.5 in., #2)				1			
1	GC70194-5	Alternator Assy, 4S12X (SAE 11.5 in., #2, 600V)					1		
1	GC70194-7	Alternator Assy, 4S13X (SAE 11.5 in., #2)						1	
1	GC70194-9	Alternator Assy, 4S13X (SAE 11.5 in., #2, 600V)							1
2	270158	Bolt, Hex Cap	6	6	6	6	6	6	6
3	X-6210-9	Nut, flange spirallock, 3/8- 16	8	8	8	8	8	8	8
4	X-352-63	Stud, 3/8- 16 x 4 in.	8	8	8	8	8	8	8
5	X-25-112	Washer, plain	2	2	2	2	2	2	2
6	X-400-132	Spacer,.406 ID x .625 OD x 2.531 in	8	8	8	8	8	8	8
7	336024	Vibromount	2	2	2	2	2	2	2
8	M982-16-80	Nut, Hex Elastic Stop	2	2	2	2	2	2	2
9	M125A-16-80	Washer, Plain	2	2	2	2	2	2	2
10	GM70117	Guard, Gen Fan (4RX SAE# 2&3)	1	1	1				
10	257179	Guard, Generator Fan				1			
11	M931-16100-60	Screw, Hex Cap M16 X 100	2	2	2	2	2	2	2
12	X-67-125	Screw, hex washer, thread-forming	2	2	2	2	2	2	2
13	M933-10025-60	Screw, Hex Cap M10 X 25	4	4	4	4	4	4	4
14	X-801-3	Washer, hardened,.406 ID x .812 in. OD	14	14	14	14	14	14	14
15	257442	Clip, speed	2	2	2	2	2	2	2
16	X-750-14	Marker, wire	1	1	1	1	1	1	1
17	X-750-15	Marker, wire	1	1	1	1	1	1	1
18	X-750-16	Marker, wire	1	1	1	1	1	1	1
19	58000 00051	Lubricant, Rubber	1	1	1	1	1	1	1

4S_X Alternators GC70194-



Group 201: Generator and Mounting, continued

4S_X Alternators GC70194-

Item	Part No.	Description	Qty.
1	See chart below	Disc, Drive	3
2	See chart below	Adapter, Generator	1
3	See chart below	Rotor Assembly	1
4	See chart below	Stator Assembly	1
5	GM70167	Bracket Assembly, End	1
6	GC70064-4	Exciter Armature, SCR	1
7	257978	Bus, Ground	1
8	M933-10030-60	Screw, hex cap	1
9	M933-10050-60	Screw, hex cap	1
10	M6797A-10-SS	Washer, Internal & External Tooth	2
11	M933-10035-60	Screw, Hex Cap	3
12	M125A-10-80	Washer, Plain	9
13	M6923-10-80	Nut, Hex 10mm	6
14	M933-16030-82	Screw, hex cap	1
15	GM70070	Washer, FRX Exciter Mtg	1
16	GM70076	Spacer, FRX Activator	1
17	M7500D-05035-85	Screw, Metric Thread Forming	3
18	M934-04-SS	Nut, Hex (Stainless Steel)	5
19	M985-04-SS	Nut, Hex Elastic Stop	5
20	X-6071-8	Screw, Thread Forming	3
21	344295	Decal, equipment grd	1
24	GM79507	Fan, Alternator	1
25	GM72391	PCB ASSY, World Alternator Activator	1
26	GM74218	Holder Assy, LED Optic Board	1
26.1	GM74198	PCB ASSY, Alt. LED Optic Board	1
26.2	M7500C-05010-83	Screw, Thread Forming Metric	1
26.3	GM74110	Holder, LED Optic Board	1
27	M125A-06-80	Washer, Plain	4
28	M931-10080-60	Screw, hex cap	5
29	M933-06016-60	Screw, hex cap, M6x16mm, js500 full thrd	4
30	M933-10025-60	Screw, hex cap, fully thrd M10 x 25mm EXP	4
31	M933-12040-82	Screw, hex cap	10
32	M931-10055-60	Screw, hex cap	1
33	X-25-93	Washer, plain .406ID x .75in. OD	14
34	290945	Washer, hardened, .531 ID x 1.06 in. OD	10
35	M933-10100-60	Screw, hex cap	4

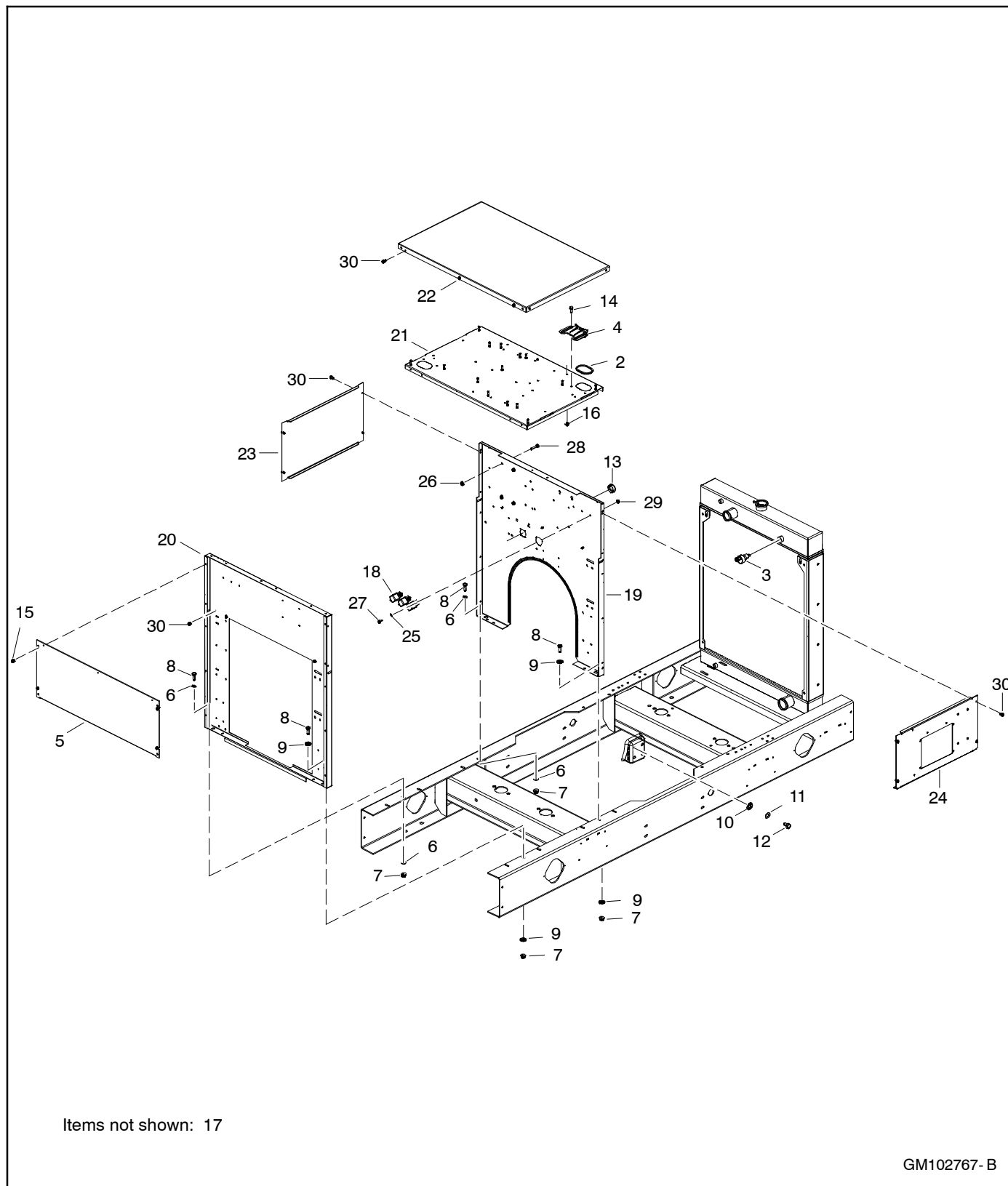
Alternator Part Number and Mount Type

Use this table to identify part numbers of items 1 - 4.

Alternator No.	Assembly			
	Item 1, Drive Disc	Item 2, Adapter	Item 3, Rotor Assy.	Item 4, Stator Assy.
GC70194-2	GM70180	GM78316	GC70182-1	GC70192-1
GC70194-5	GM70180	GM78316	GC70182-1	GC70193-1
GC70194-7	GM70180	GM78316	GC70182-3	GC70192-2
GC70194-9	GM70180	GM78316	GC70182-3	GC70193-2

Group 301: Control and Harness

KG40-60, GM105305-MA1



Group 301: Control and Harness

KG40- 60, GM105305-MA1

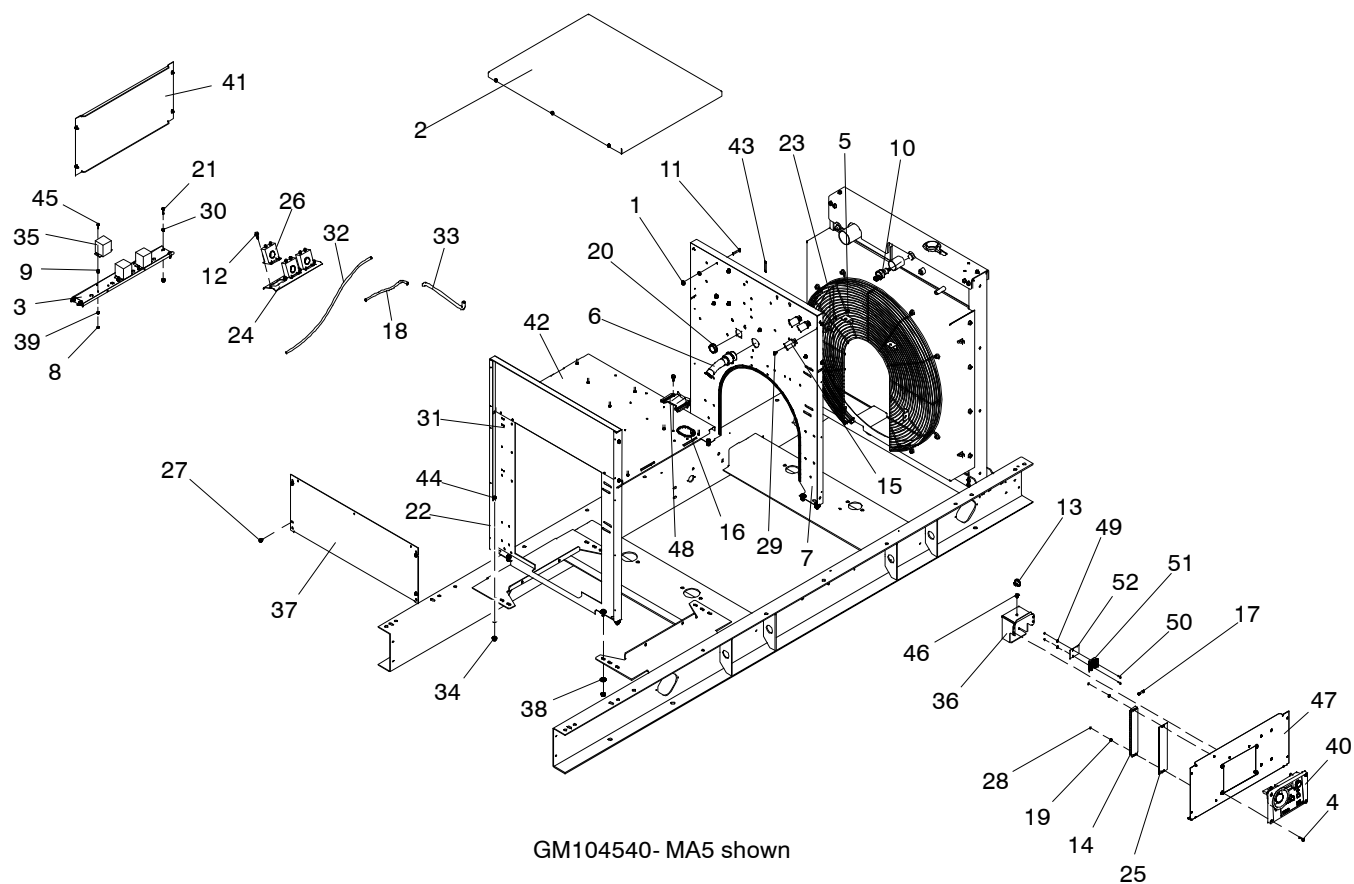
Item	Part Number	Description	Qty.
2	X-6033-5	Grommet	1
3	GM66270	Sensor, Low coolant level	1
4	GM74531	Guard, Rodent	1
5	GM76175	Cover, Controller (rear)	1
6	M125A-08-80	Washer, Plain 8.4 ID x 16 OD	4
7	M6923-08-80	Nut, Hex 8 mm	4
8	M933-08020-60	Screw, Hex cap	4
9	X-22-16	Washer, Lock	4
10	X-22-26	Washer, Lock	1
11	X-25-26	Washer, Plain, .531 ID x 1.062 in. OD	1
12	X-129-15	Bolt, Hex cap	1
13	X-301-35	Button, Plug	1
14	X-794-1	Screw, Drill	2
15	X-6216-1	Screw, Phillips hex crimpite	4
16	361567	Base, Tie wrap snapin	2
17	GM103151	Harness, J-box 40- 60 kW gas	1
18	GM49746	Relay, 12 VDC	3
19	GM76167**	Panel, Junction box (front)	1
20	GM76168	Panel, Junction box (rear)	1
21	GM76169	Panel, Junction box (shelf)	1
22	GM76170**	Cover, Junction box (top)	1
23	GM76173	Cover, Controller (left)	1
24	GM76174	Panel, J- box APM402 mnt.	1
25	M125A-05-80	Washer, Plain	3
26	M6923-06-80	Nut, Hex 6 mm	4
27	M7985A-05012-20	Screw, Pan head mach.	3
28	M933-06030-60	Screw, Hex cap	4
29	M934-05-50	Nut, Hex 5 mm	3
30	X-6216-1	Screw, Phillips hex crimpite	21

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

Module No.	Color Dependant Parts	
	Part Number Suffix	Part Number Example (item 19)
GM105305-MA1-BLK	-BLK	GM76167-BLK

Group 301: Control and Harness, continued

KG80(R) - KG125(R), GM104540-



Items not shown: 53, 54

GM104540

Group 301: Control and Harness, continued

KG80(R) - KG125(R), GM104540-

Item	Part Number	Description	Qty. GM104540				
			- MA1	- MA2	- MA3	- MA4	- MA5
1	M6923-06-80	Nut, Hex 6 mm	4	4	4	4	8
2	GM76179**	Cover, Junction box (Top)	1	1	1	1	1
3	GM35175	Bracket, PT mounting	-	-	-	-	1
4	M7985A-05020-20	Screw, Pan head machine	4	4	4	4	4
5	M934-05-50	Nut, Hex 5 mm	3	3	3	3	3
6	GM104025	Harness, Ctrl 6.2L Ind Turbo KG80/100/125	1	1	1	1	1
7	GM76176**	Panel, Junction box (Front) 4RX/4TX	1	1	1	1	1
8	M934-04-50	Nut, Hex 4 mm	-	-	-	-	6
9	X-400-145	Spacer, .209 ID x .375 OD x .234 in.	-	-	-	-	6
10	GM66270	Sensor, Low coolant level	1	1	1	1	1
11	M933-06035-60	Screw, Hex cap M6 x 35	4	4	4	4	4
12	X-794-1	Screw, Hex wshr hd, Drill 1/4- 14 X 5/8	6	6	6	6	6
13	X-468-1	Cable Tie	1	1	1	1	1
14	273769	Terminal Block, 20- Position, 2- Row	1	1	1	1	1
15	GM49746	Relay, 12 VDC	3	3	3	3	3
16	X-6033-5	Grommet, U- channel	1	1	1	1	1
17	291207	Fuse, 1.5A, 250V, 0.25 x 1.25, Time delay	3	3	3	3	3
18	GM17424	Harness, Wiring current transformer	1	1	1	1	1
19	X-22-6	Washer, Lock .146 ID x .285 in. OD	2	2	2	2	2
20	X-301-35	Button, Plug	1	1	1	1	1
21	M933-06020-60	Screw, Hex cap M6 x 20	-	-	-	-	4
22	M125A-08-80	Washer, Plain 8.4 ID x 16.0 OD	8	8	8	8	8
23	M125A-05-80	Washer, Plain	3	3	3	3	3
24	276417	Bracket, CT mounting	-	-	-	-	1
25	GM75602	Strip, Marker	1	1	1	1	1
26	GM16252	Transformer, Current 200A	-	-	-	-	3
26	GM16257	Transformer, Current 400A	3	-	2	-	-
26	GM24898	Transformer, Current 800A	-	3	-	2	-
27	X-6216-1	Screw, Phillips hex crimpfitte	24	24	24	24	24
28	M934-03-50	Nut, hex 3 mm	6	6	6	6	6
29	M7985A-05012-20	Screw, Pan head mach.	3	3	3	3	3
30	M125A-06-80	Washer, Plain	4	4	4	4	8
31	GM76177	Panel, Junction box (Rear)	1	1	1	1	1
32	GM59010	Harness, Wiring 4S	-	-	-	-	1
33	GM77888	Harness, A/C APM402	1	1	1	1	1
34	M6923-08-80	Nut, Hex 8 mm	8	8	8	8	8
35	258990	Transformer, 347 V, 115.6 V	-	-	-	-	3
36	GM71802	Cover, Controller	1	1	1	1	1
37	GM76175	Cover, Controller (Rear)	1	1	1	1	1
38	X-22-16	Washer, Lock .326 ID x .883 in. OD	8	8	8	8	8
39	X-22-7	Washer, Lock .172 ID x .333 in. OD	-	-	-	-	6
40	GM65741-3	Controller assy, APM402	1	1	1	1	1
41	GM76181	Cover, Controller (Left)	1	1	1	1	1
42	GM76178	Panel, Junction box (Shelf)	1	1	1	1	1
43	GM103735	Module, 6.2L NA ECM, ERC	1	1	1	1	1
44	M933-08020-60	Screw, Hex cap M8 x 20	8	8	8	8	8
45	M7985A-04016-20	Screw, Pan head machine	-	-	-	-	6
46	361567	Base, Tie wrap snapin	1	1	1	1	1
47	GM76182-S	Panel, J- Box APM402 mnt	1	1	1	1	1
48	GM74531	Guard, Rodent	1	1	1	1	1
49	M125A-03-60	Washer, Plain	2	2	2	2	2
50	M7985A-03012-20	Screw, Pan head M3 x 12	2	2	2	2	2
51	292821	Fuse holder	1	1	1	1	1
52	225179	Strip, Marker	1	1	1	1	1
53	23369 00101	Grommet, Nylon	0.698 ft	0.698 ft	0.698 ft.	0.698 ft.	0.698 ft.
54	GM104026	Diagram, Wiring, 6.2L Industrial Turbo	1	1	1	1	1

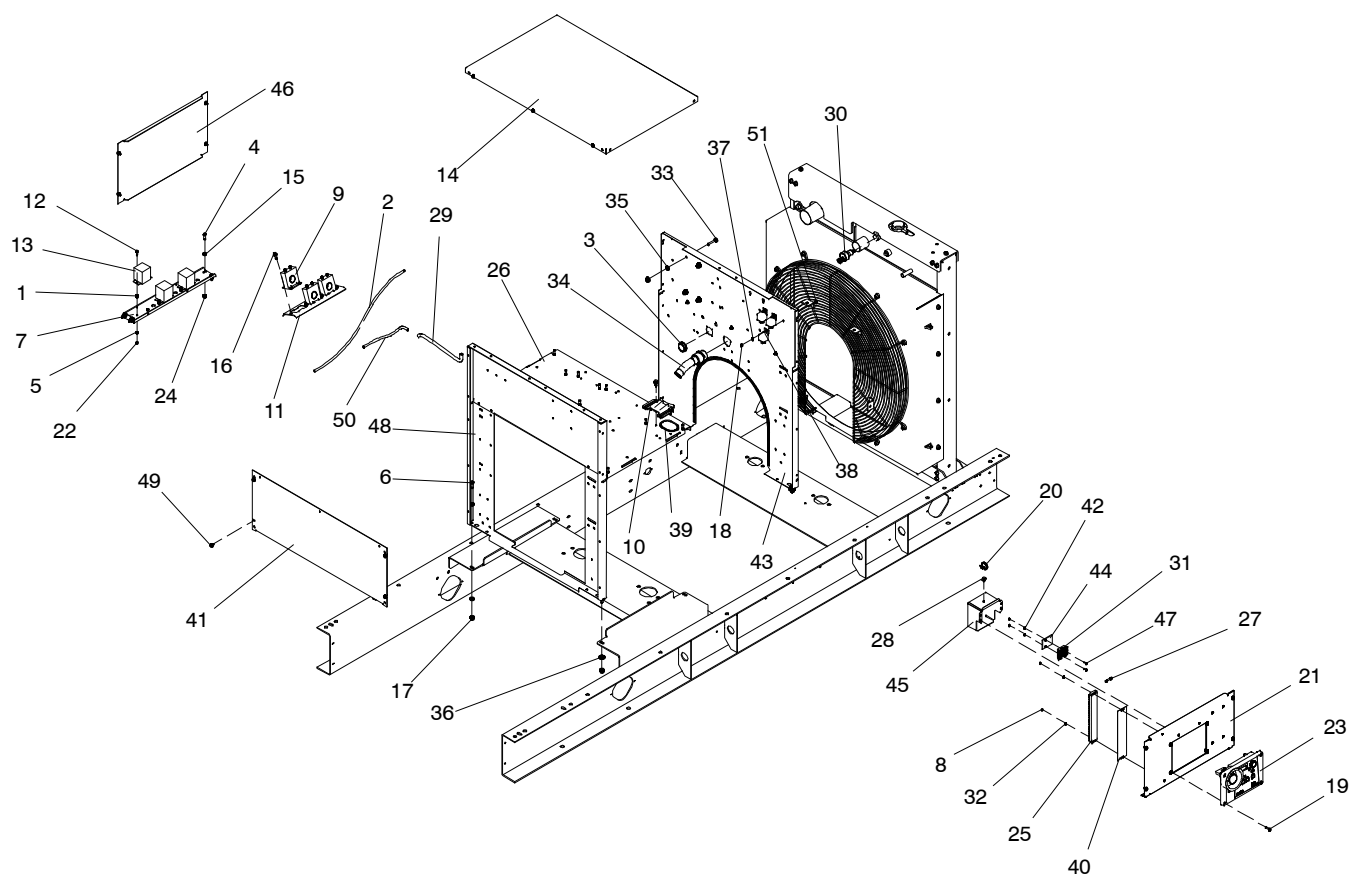
** Use the Module number and chart below to identify the color suffix.

Add a suffix to this color dependent part number before ordering.

Module No.	Color Dependant Parts	
	Part Number Suffix	Part Number Example (item 2)
GM104540-MA1-BLK	-BLK	GM76179-BLK
GM104540-MA2-BLK	-BLK	GM76179-BLK
GM104540-MA3-BLK	-BLK	GM76179-BLK
GM104540-MA4-BLK	-BLK	GM76179-BLK
GM104540-MA5-BLK	-BLK	GM76179-BLK

Group 301: Control and Harness, continued

KG80- KG80R, GM105304-



GM105304- MA2 shown

Items not shown: 52, 53

GM105304

Group 301: Control and Harness, continued

KG80- KG80R, GM105304-

Item	Part Number	Description	Qty.	
			GM105304- MA1	GM105304- MA2
1	X-400-145	Spacer, .209 ID x .375 OD x .234 in.	-	6
2	GM59010	Harness, Wiring 4S	-	1
3	X-301-35	Button, Plug	1	1
4	M933-06020-60	Screw, Hex cap M6 x 20	-	4
5	X-22-7	Washer, Lock .172 ID x .333 in. OD	-	6
6	M933-08020-60	Screw, Hex cap M8 x 20	4	4
7	GM58692	Bracket, PT mounting	-	1
8	M934-03-50	Nut, Hex 3 mm	6	6
9	GM16252	Transformer, Current 200A:3 VAC	3	3
10	GM74531	Guard, Rodent	1	1
11	276417	Bracket, CT mounting	1	1
12	M7985A-04016-20	Screw, Pan head machine	-	6
13	258990	Transformer, 347 V, 115.6 V	-	3
14	GM76170**	Cover, Junction box	1	1
15	M125A-06-80	Washer, Plain	-	4
16	X-794-1	Screw, Hex wshr Hd, Drill 1/4- 14 x 5/8	6	6
17	M6923-08-80	Nut, Hex 8 mm	8	8
18	M934-05-50	Nut, Hex 5 mm	3	3
19	M7985A-05020-20	Screw, Pan head machine	4	4
20	X-468-1	Cable tie	1	1
21	GM76174-S	Panel, J- Box APM402 mnt	1	1
22	M934-04-50	Nut, Hex 4 mm	-	6
23	GM65741-3	Controller assy, APM402	1	1
24	M6923-06-80	Nut, Hex 6 mm	-	4
25	273769	Terminal block, 20- Position, 2- Row	1	1
26	GM76169	Panel, Junction box (shelf)	1	1
27	291207	Fuse, 1.5A, 250V, 0.25 x 1.25, Time delay	3	3
28	361567	Base, Tie wrap snapin	1	1
29	GM77888	Harness, A/C APM402	1	1
30	GM66270	Sensor, Low coolant level	1	1
31	292821	Fuse holder	1	1
32	X-22-6	Washer, Lock .146 ID x .285 in. OD	2	2
33	M931-08040-60	Screw, Hex cap M8 x 40	4	4
34	GM104025	Harness, Ctrl 6.2L Ind Turbo KG80/100/125	1	1
35	M125A-08-80	Washer, Plain 8.4 ID x 16.0 OD	8	8
36	X-22-16	Washer, Lock .326 ID x .883 in. OD	4	4
37	M125A-05-80	Washer, Plain	3	3
38	GM49746	Relay, 12 VDC	3	3
39	X-6033-5	Grommet, U- Channel	1	1
40	GM75602	Strip, Marker	1	1
41	GM76175	Cover, Controller (Rear)	1	1
42	M125A-03-60	Washer, Plain	2	2
43	GM76167**	Panel, Junction box (Front)	1	1
44	225179	Strip, Marker	1	1
45	GM71802	Cover, Controller	1	1
46	GM76173	Cover, Controller (Left)	1	1
47	M7985A-03012-20	Screw, Pan Head M3 x 12	2	2
48	GM76168	Panel, Junction box (Rear)	1	1
49	X-6216-1	Screw, Phillips hex crimp	21	21
50	GM17424	Harness, Wiring current transformer	1	1
51	M7985A-05012-20	Screw, Pan head mach.	3	3
52	23369 00101	Grommet, Nylon	0.2127504	0.2127504
53	GM104026	Diagram, Wiring, 6.2L industrial turbo	1	1

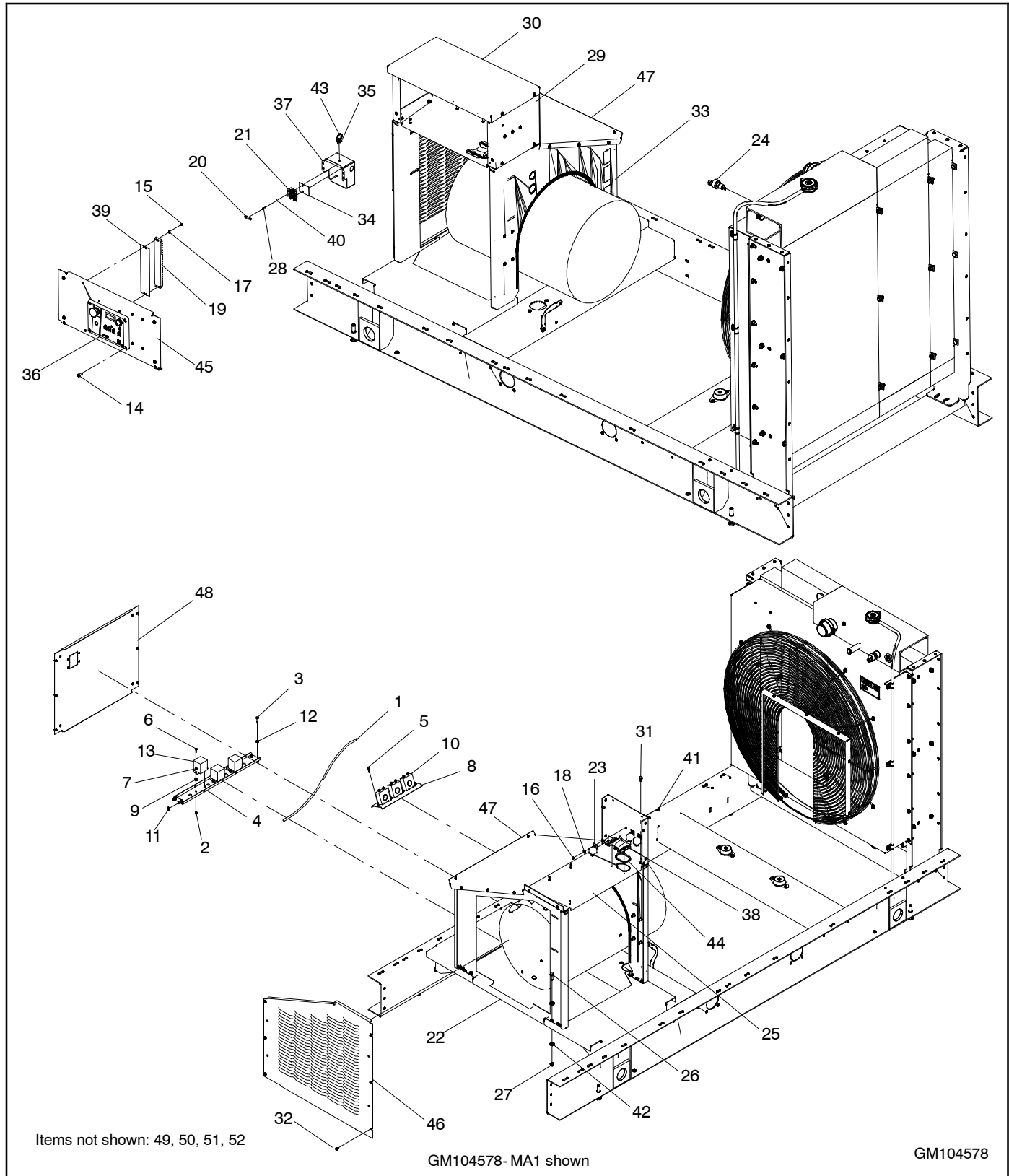
** Use the Module number and chart below to identify the color suffix.

Add a suffix to this color dependent part number before ordering.

Module No.	Color Dependant Parts	
	Part Number Suffix	Part Number Example (item 14)
GM105304-MA1-BLK	-BLK	GM76170-BLK
GM105304-MA2-BLK	-BLK	GM76170-BLK

Group 301: Control and Harness, continued

KG150(R), GM104578-



Group 301: Control and Harness, continued

Item	Part Number	Description	KG150(R), GM104578-Qty.			
			GM104578			
			- MA1	- MA2	- MA3	- MA4
1	GM59010	Harness, Wiring 4S	1			
2	M934-04-50	Nut, Hex 4mm	6			
3	M933-06020-60	Screw, Hex Cap M6 X 20	4			
4	GM35175	Bracket, PT Mounting	1			
5	X-794-1	Screw, hex wshr hd, drill 1/4- 14 x 5/8	6	6	6	6
6	M7985A-04016-20	Screw, Pan Head Machine	6			
7	X-22-7	Washer, lock.172 ID x.333 in. OD	6			
8	276417	Bracket, CT mounting	1	1		
8	299966	Bracket, CT mounting			1	1
9	X-400-145	Spacer, .209 ID x .375 OD x .234 in.	6			
10	GM16252	Transformer, Current 200A:3 VAC	3			
10	GM16257	Transformer, Current 400A:3 VAC		3		
10	GM24898	Transformer, Current 800A:3 VAC			2	3
11	M6923-06-80	Nut, Hex 6mm	4			
12	M125A-06-80	Washer, Plain	4			
13	258990	Transformer, 347 V, 115.6 V	3			
14	M7985A-05020-20	Screw, Pan Head Machine	4	4	4	4
15	M934-03-50	Nut, Hex 3mm	6	6	6	6
16	M934-05-50	Nut, Hex 5mm	3	3	3	3
17	X-22-6	Washer, lock.146 ID x .285 in. OD	2	2	2	2
18	X-25-36	Washer, plain,.219 ID x .5 in. OD	3	3	3	3
19	273769	Terminal Block, 20- Position, 2- Row	1	1	1	1
20	291207	Fuse, 1.5A, 250V, 0.25x1.25, Time Delay	3	3	3	3
21	292821	Fuse holder	1	1	1	1
22	GM107024-S**	Panel, Junction Box (Rear) 4R/4S/4T	1	1	1	1
23	GM49746	Relay, 12 VDC	3	3	3	3
24	GM66270	Sensor, Low Coolant Level	1	1	1	1
25	GM107026	Box, Junction, 4R/4S/4T Shelf	1	1	1	1
26	M6921-08030-60	Screw, Hex Flange (M8- 1.25 X 30 mm)	8	8	8	8
27	M6923-08-80	Nut, Hex 8mm	8	8	8	8
28	M7985A-03012-20	Screw, pan head M3X12	2	2	2	2
29	GM105884**	Box, Controller, Side	2	2	2	2
30	GM107027**	Box, Junction, 4R/4S/4T Top	1	1	1	1
31	M6921-06016-60	Screw, Hex Flange M6x16mm fly thrd JS500	4	4	4	4
32	X-6216-1	Screw, Phillips hex crimp tite	34	34	34	34
33	GM107023-S**	Panel, Junction Box (Front) 4R/4S/4T	1	1	1	1
34	225179	Strip, marker	1	1	1	1
35	361567	Base, tie wrap snapin	1	1	1	1
36	GM104661	Controller, APM402 Service Replacement	1	1	1	1
37	GM71802	Cover, Controller	1	1	1	1
38	GM74531	Guard, Rodent	1	1	1	1
39	GM75602	Strip, Marker	1	1	1	1
40	M125A-03-SS	Washer, Plain	2	2	2	2
41	M7985A-05012-20	Screw, pan head mach.	3	3	3	3
42	X-22-16	Washer, Lock .326 in. ID x .883 in. OD	8	8	8	8
43	X-468-1	Cable Tie	1	1	1	1
44	X-6033-5	Grommet, U- Channel	1	1	1	1
45	GM107025-S**	Panel, J- Box APM402 Mount	1	1	1	1
46	GM107028**	Box, Junction, 4R/4S/4T (Rear Cover)	1	1	1	1
47	GM107029**	Box, Junction, 4R/4S/4T (Cover)	1	1	1	1
48	GM107030-KCB	Box, Junction, 4R/4S/4T (Left)	1	1	1	1
49	GM17424	Harness, Wiring Current Transformer	1	1	1	1
50	GM77888	Harness, A/C APM402	1	1	1	1
51	GM107156	Harness, J- Box,10.3L 150- 200kW, APM402	1	1	1	1
52	GM107157	Diagram, Wiring,10.3L 150- 200kW, APM402	1	1	1	1

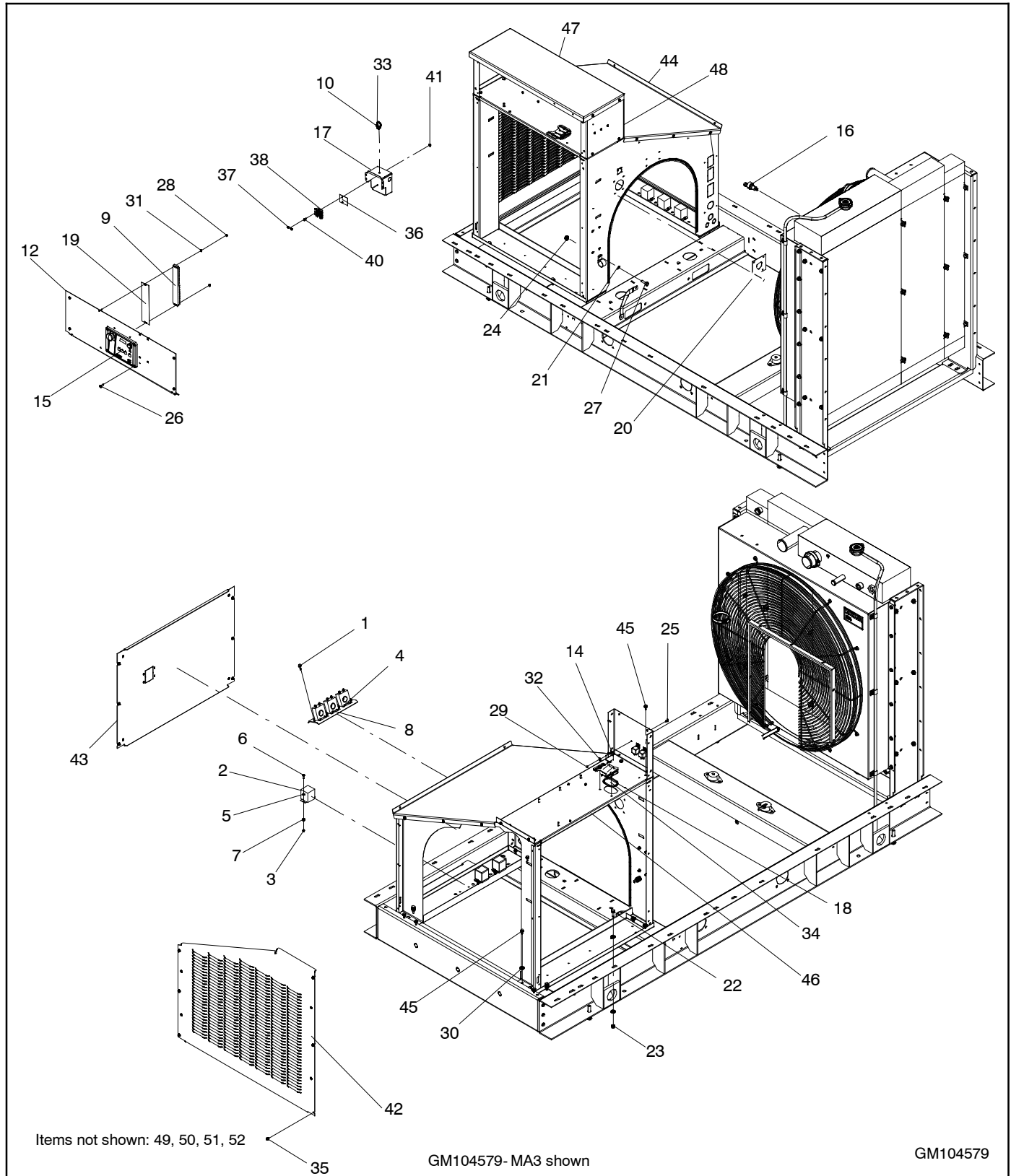
** Use the Module number and chart below to identify the color suffix.

Add a suffix to this color dependent part number before ordering.

Module No.	Color Dependant Parts	
	Part Number Suffix	Part Number Example (item 22)
GM104578-MA1-BLK	-BLK	GM107024-S-BLK
GM104578-MA2-BLK	-BLK	GM107024-S-BLK
GM104578-MA3-BLK	-BLK	GM107024-S-BLK
GM104578-MA4-BLK	-BLK	GM107024-S-BLK

Group 301: Control and Harness, continued

KG180-KG200, GM104579-



Group 301: Control and Harness, continued

KG180- KG200, GM104579-

Item	Part Number	Description	Qty. GM104579		
			- MA1	- MA2	- MA3
1	X-794-1	Screw, hex wshr hd, drill 1/4- 14 x 5/8	6	6	6
2	258990	Transformer, 347 V, 115.6 V			3
3	M934-04-50	Nut, Hex 4 mm			6
4	GM24898	Transformer, Current 800A:3 VAC	3	2	
4	GM16257	Transformer, Current 400A:3 VAC			3
5	X-22-7	Washer, lock.172 ID x.333 in. OD			6
6	M7985A-04016-20	Screw, Pan Head Machine			6
7	X-400-145	Spacer, .209 ID x .375 OD x .234 in.			6
8	299966	Bracket, CT mounting	1	1	
8	276417	Bracket, CT mounting			1
9	273769	Terminal Block, 20- Position, 2- Row	1	1	1
10	361567	Base, tie wrap snapin	1	1	1
11	GM105888-S**	Box, Junction, 4UA (Back)	1	1	1
12	GM70132-S	Panel, Controller Face	1	1	1
13	GM105881-S**	Box, Junction, 4UA Bottom	1	1	1
14	GM49746	Relay, 12 VDC	3	3	3
15	GM104661	Controller, APM402 Service Replacement	1	1	1
16	GM66270	Sensor, Low Coolant Level	1	1	1
17	GM71802	Cover, Controller	1	1	1
18	GM74531	Guard, Rodent	1	1	1
19	GM75602	Strip, Marker	1	1	1
20	GM75812	Plate, Harness Connector	1	1	1
21	M125A-10-80	Washer, Plain10.5 ID x 20.0 OD	1	1	1
22	M6921-08030-60	Screw, Hex Flange (M8- 1.25 X 30 mm)	4	4	4
23	M6923-08-80	Nut, Hex 8 mm	4	4	4
24	M6923-10-80	Nut, Hex 10 mm	1	1	1
25	M7985A-05012-20	Screw, pan head mach.	3	3	3
26	M7985A-05020-20	Screw, Pan Head Machine	4	4	4
27	M933-10035-60	Screw, Hex Cap M10 X 35	1	1	1
28	M934-03-50	Nut, Hex 3 mm	4	4	4
29	M934-05-50	Nut, Hex 5 mm	3	3	3
30	X-22-16	Washer, Lock .326 in. ID x .883 in. OD	6	6	6
31	X-22-6	Washer, lock.146 ID x .285 in. OD	2	2	2
32	X-25-36	Washer, plain,.219 ID x .5 in. OD	3	3	3
33	X-468-1	Cable Tie	1	1	1
34	X-6033-5	Grommet, U- Channel	1	1	1
35	X-6216-1	Screw, Phillips hex crimp tite	38	38	38
36	225179	Strip, marker	1	1	1
37	291207	Fuse, 1.5A, 250V, 0.25x1.25, Time Delay	3	3	3
38	292821	Fuse holder	1	1	1
39	GM105880-S**	Box, Junction, 4UA (Front)	1	1	1
40	X-49-26	Screw, Machine	2	2	2
41	X-6210-3	Nut, flange serrated, 6- 32	2	2	2
42	GM105885**	Box, Junction, 4UA (Rear Cover)	1	1	1
43	GM105886-KCB	Box, Junction, 4UA (Left)	1	1	1
44	GM105887**	Box, Junction, 4UA Top (Cover)	1	1	1
45	M6921-06016-60	Screw, Hex Flange M6x16mm fly thrd js500	12	12	12
46	GM105882	Box, Junction, 4UA Shelf	1	1	1
47	GM105883**	Box, Junction, 4UA Top	1	1	1
48	GM105884**	Box, Controller, Side	2	2	2
49	GM77888	Harness, A/C APM402	1	1	1
50	GM17424	Harness, Wiring Current Transformer	1	1	1
51	GM107157	Diagram, Wiring,10.3L 150- 200kW, APM402	1	1	1
52	GM107156	Harness, J- Box,10.3L 150- 200kW, APM402	1	1	1

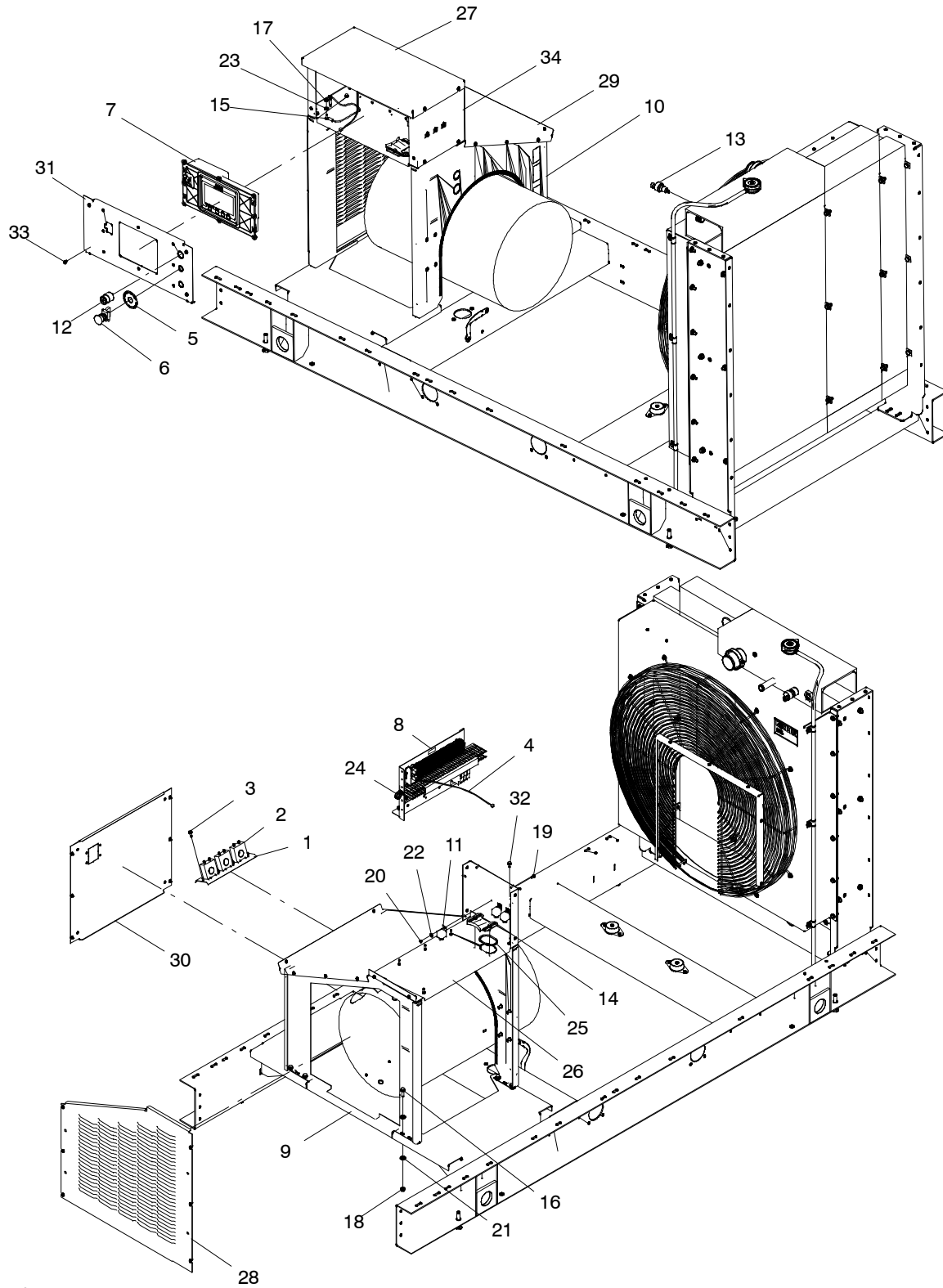
** Use the Module number and chart below to identify the color suffix.

Add a suffix to this color dependent part number before ordering.

Module No.	Color Dependant Parts	
	Part Number Suffix	Part Number Example (item 11)
GM104579-MA1-BLK	-BLK	GM105888-S-BLK
GM104579-MA2-BLK	-BLK	GM105888-S-BLK
GM104579-MA3-BLK	-BLK	GM105888-S-BLK

Group 301: Control and Harness, continued

KG150-KG200, GM106615-



Items not shown: 35, 36, 37, 38, 39

GM106615- MA2 shown

GM106615

Group 301: Control and Harness, continued

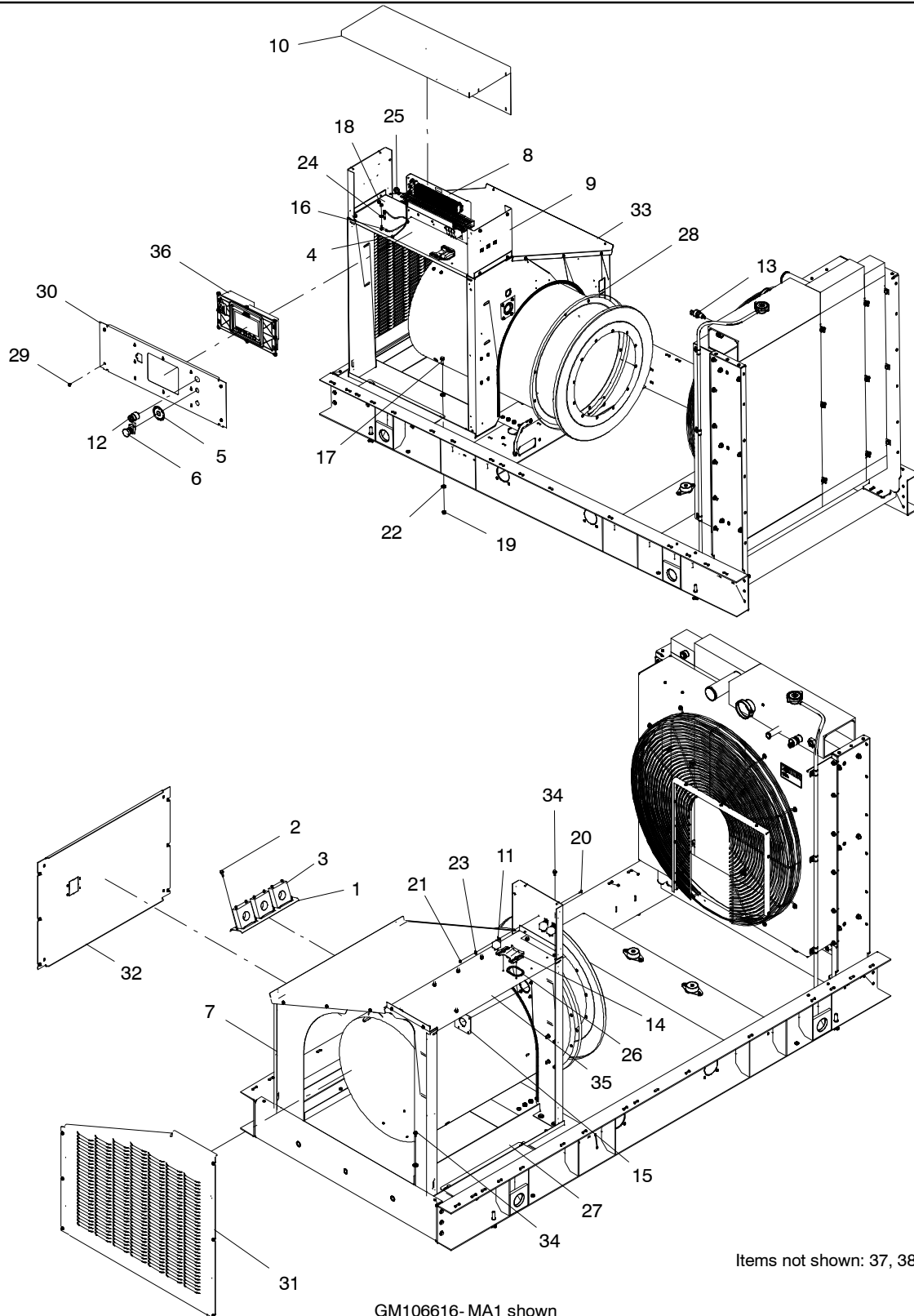
Item	Part Number	Description	KG150- KG200, GM106615- Qty.		
			GM106615		
			- MA2	- MA3	- MA4
1	276417	Bracket, CT mounting	1		
1	299966	Bracket, CT mounting		1	1
2	GM16257	Transformer, Current 400A:3 VAC	3		
2	GM24898	Transformer, Current 800A:3 VAC		2	3
3	X-794-1	Screw, hex wshr hd, drill 1/4- 14 x 5/8	6	6	6
4	357477	Cable, Patch, 3 Ft. RJ- 45	1	1	1
5	GB31311173101	Decal, Emergency Stop	1	1	1
6	GB31613392201	Switch, Emergency Stop	1	1	1
7	GM109412-S	Kit, APM603 Controller Service	1	1	1
8	GM105961	Controller Terminal Block Subassembly	1	1	1
9	GM107024-S**	Panel, Junction Box (Rear) 4R/4S/4T	1	1	1
10	GM107023-S**	Panel, Junction Box (Front) 4R/4S/4T	1	1	1
11	GM49746	Relay, 12 VDC	3	3	3
12	GM63146	Alarm, Piezo Sound	1	1	1
13	GM66270	Sensor, Low Coolant Level	1	1	1
14	GM74531	Guard, Rodent	1	1	1
15	LK-1212-1515	Lead	1	1	1
16	M6921-08030-60	Screw, Hex Flange (M8- 1.25 X 30 mm)	8	8	8
17	M6923-06-80	Nut, Hex 6 mm	12	12	12
18	M6923-08-80	Nut, Hex 8 mm	8	8	8
19	M7985A-05012-20	Screw, pan head mach.	3	3	3
20	M934-05-50	Nut, Hex 5mm	3	3	3
21	X-22-16	Washer, Lock .326 in. ID x .883 in. OD	8	8	8
22	X-25-36	Washer, plain,.219 ID x .5 in. OD	3	3	3
23	X-25-40	Washer, plain, .281 ID x .625 in. OD	2	2	2
24	X-468-6	Cable tie	3	3	3
25	X-6033-5	Grommet, U- Channel	1	1	1
26	GM107026	Box, Junction, 4R/4S/4T Shelf	1	1	1
27	GM107027**	Box, Junction, 4R/4S/4T Top	1	1	1
28	GM107028**	Box, Junction, 4R/4S/4T (Rear Cover)	1	1	1
29	GM107029**	Box, Junction, 4R/4S/4T (Cover)	1	1	1
30	GM107030-KCB	Box, Junction, 4R/4S/4T (Left)	1	1	1
31	GM107031**	Panel, Controller Face, APM603	1	1	1
32	M6921-06016-60	Screw, Hex Flange M6x16mm fly thrd JS500	4	4	4
33	X-6216-1	Screw, Phillips hex crimp tite	34	34	34
34	GM105884**	Box, Controller, Side	2	2	2
35	X-6135-4	Fuse, 15 A, 600 V	1	1	1
36	X-6135-6	Fuse, 10 A, 600 V	2	2	2
37	GM105368	Harness, APM603, J- Box, Current Sense	1	1	1
38	GM107432	Harness, Control Box APM603 10.3L Turbo	1	1	1
39	GM107538	Diagram, Wiring,10.3L 150- 200kW, APM603	1	1	1

** Use the Module number and chart below to identify the color suffix.

Add a suffix to this color dependent part number before ordering.

Module No.	Color Dependant Parts	
	Part Number Suffix	Part Number Example (item 9)
GM106615-MA2-BLK	-BLK	GM107024-S-BLK
GM106615-MA3-BLK	-BLK	GM107024-S-BLK
GM106615-MA4-BLK	-BLK	GM107024-S-BLK

KG180- KG200, GM106616-



Group 301: Control and Harness, continued

KG150- KG200, GM106616-

Item	Part Number	Description	Qty.		
			GM106616		
			- MA1	- MA2	- MA3
1	299966	Bracket, CT mounting	1	1	
1	276417	Bracket, CT mounting			1
2	X-794-1	Screw, hex wshr hd, drill 1/4- 14 x 5/8	6	6	6
3	GM24898	Transformer, Current 800A:3VAC	3	2	
3	GM16257	Transformer, Current 800A:3VAC			3
4	357477	Cable, Patch, 3 Ft. RJ- 45	1	1	1
5	GB31311173101	Decal, Emergency Stop	1	1	1
6	GB31613392201	Switch, Emergency Stop	1	1	1
7	GM105888-S**	Box, Junction, 4UA (Back)	1	1	1
8	GM105961	Controller Terminal Block Subassembly	1	1	1
9	GM105884**	Box, Controller, Side	2	2	2
10	GM105883**	Box, Junction, 4UA Top	1	1	1
11	GM49746	Relay, 12 VDC	3	3	3
12	GM63146	Alarm, Piezo Sound	1	1	1
13	GM66270	Sensor, Low Coolant Level	1	1	1
14	GM74531	Guard, Rodent	1	1	1
15	GM75812	Plate, Harness Connector	1	1	1
16	LK-1212-1515	Lead	1	1	1
17	M6921-08030-60	Screw, Hex Flange (M8- 1.25 X 30 mm)	4	4	4
18	M6923-06-80	Nut, Hex 6mm	12	12	12
19	M6923-08-80	Nut, Hex 8mm	4	4	4
20	M7985A-05012-20	Screw, pan head mach.	3	3	3
21	M934-05-50	Nut, Hex 5mm	3	3	3
22	X-22-16	Washer, Lock .326 in. ID x .883 in. OD	6	6	6
23	X-25-36	Washer, plain,.219 ID x .5 in. OD	3	3	3
24	X-25-40	Washer, plain, .281 ID x .625 in. OD	2	2	2
25	X-468-6	Cable tie	3	3	3
26	X-6033-5	Grommet, U- Channel	1	1	1
27	GM105881-S**	Box, Junction, 4UA Bottom	1	1	1
28	GM105880-S**	Box, Junction, 4UA (Front)	1	1	1
29	X-6216-1	Screw, Phillips hex crimpite	38	38	38
30	GM104973	Panel, Controller Face	1	1	1
31	GM105885**	Box, Junction, 4UA (Rear Cover)	1	1	1
32	GM105886- KCB	Box, Junction, 4UA (Left)	1	1	1
33	GM105887**	Box, Junction, 4UA Top (Cover)	1	1	1
34	M6921-06016-60	Screw, Hex Flange M6x16mm fly thrd js500	12	12	12
35	GM105882	Box, Junction, 4UA Shelf	1	1	1
36	GM109412-S	Kit, APM603 Controller Service	1	1	1
37	GM105368	Harness, APM603, J- Box, Current Sense	1	1	1
38	GM107432	Harness, Control Box APM603 10.3L Turbo	1	1	1
39	GM107538	Diagram, Wiring,10.3L 150- 200KW, APM603	1	1	1
40	X-6135-4	Fuse, 15 A, 600 V	1	1	1
41	X-6135-6	Fuse, 10 A, 600 V	2	2	2

** Use the Module number and chart below to identify the color suffix.

Add a suffix to this color dependent part number before ordering.

Module No.	Color Dependant Parts	
	Part Number Suffix	Part Number Example (item 7)
GM106616-MA1-BLK	-BLK	GM105888-S-BLK
GM106616-MA2-BLK	-BLK	GM105888-S-BLK
GM106616-MA3-BLK	-BLK	GM105888-S-BLK

Group 701: Literature

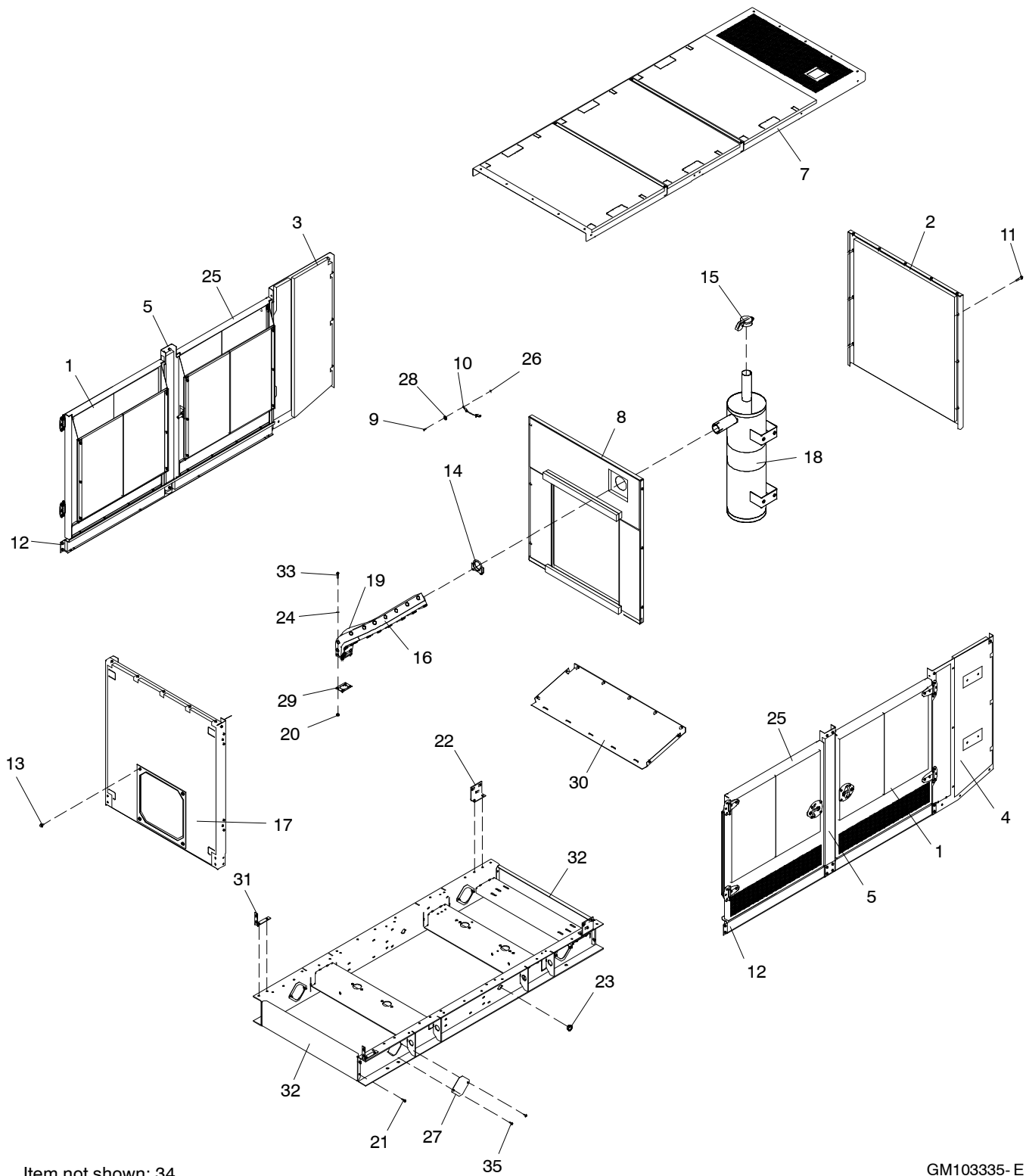
Item	Part Number	Description	Quantity					
			Variation Number					
			555	556	557	558	563	564
1	TP-5374	Warranty 1-Year Limited, Industrial	1	1	1	1	1	1
2	TP-5700	I/M 20- 3250kW, Industrial	1	1	1	1	1	1
3	TP-6356	S/M Controllers, 20- 3250 kW, Industrial	1	1	1	1	1	1
4	TP-6694	O/M APM402/DEC 3000 Controller	1	1	1	1	1	1
5	TP-6781	P/C APM402/DEC 3000 Controller	1	1	1	1	1	1
6	TP-6783	S/M Fast Response X (FR- X) Alternator	1	1	1	1	1	1
7	TP-7095	O/M KG6208 6.2L Engine	1	1	1	1	1	1
8	TP-7096	S/M KG6208 6.2L Engine	1	1	1	1	1	1
9	TP-7097	S/M KG6208 Fuel System and Diagonst	1	1	1	1	1	1
10	TP-7098	S/M KG6208 Fuel System and Diagonst					1	1
11	TP-7112	W/D KG40- 80, Gas, Industrial	1	1	1	1	1	
12	TP-7118	P/C KG40- KG80, Industrial					1	1
13	TP-7124	O/I/M Engine Display Interface Soft					1	1
14	TP-7125	Warranty, CARB/EPA SORE 2- Yr 6.2L					1	1
15	TP-7130	W/D KG80R- 125R, Gas, Residential						1

Item	Part Number	Description	Quantity							
			Variation Number							
			565	566	567	568	580	581	582	583
1	G18- 376	Seismic Certification, KG40- 125	1	1	1	1	1	1	1	1
2	G4- 287	S/S KG100, Gas, Industrial	1							
2	G4- 288	S/S KG100R, Gas, Residential		1						
2	G4- 289	S/S KG125, Gas, Kohler, Industrial			1					
2	G4- 290	S/S KG125R, Gas, Kohler, Residential				1				
2	G4- 292	S/S KG150R, Gas, Residential					1			
2	G4- 293	S/S KG150, Gas, Industrial						1		
2	G4- 294	S/S KG180, Gas, Industrial							1	
2	G4- 295	S/S KG200, Gas, Industrial								1
3	TP- 5374	Warranty 1- Year Limited, Industrial	1	1	1	1	1	1	1	1
4	TP- 5374- F	Warranty, 1- Yr Ltd, Standby, French	1	1	1	1	1	1	1	1
5	TP- 5374- P	Warranty, 1- Yr Ltd, Standby, Portuguese	1	1	1	1		1	1	1
6	TP- 5374- S	Warranty, 1- Yr Ltd, Standby, Spanish	1	1	1	1		1	1	1
7	TP- 5700	I/M 20- 3250kW, Industrial	1	1	1	1	1	1	1	1
8	TP- 5700- CS	I/M Industrial, Chinese Simplified	1	1	1	1				
9	TP- 5700- CT	I/M Industrial, Chinese Traditional	1	1	1	1				
10	TP- 5700- F	I/M Industrial, French	1	1	1	1	1	1	1	1
11	TP- 5700- G	I/M Industrial, German	1	1	1	1				
12	TP- 5700- S	I/M Industrial, Spanish	1	1	1	1		1	1	1
13	TP- 6356	S/M Controllers, 20- 3250 kW, Ind.	1	1	1	1				
14	TP- 6694	O/M APM402/DEC3000 Controller	1	1	1	1	1	1	1	1
15	TP- 6694- F	O/M DEC3000 Controller, French	1	1	1	1	1	1	1	1
16	TP- 6694- R	O/M DEC3000 Controller, Russian	1	1	1	1				
17	TP- 6694- S	O/M DEC3000 Controller, Spanish	1	1	1	1		1	1	1
18	TP- 6781	P/C APM402/DEC 3000 Controller	1	1	1	1		1	1	1
19	TP- 6783	S/M 20- 200, Fst Rspnse X (FR- X) Altr, Ind	1	1	1	1				
20	TP- 7095	O/M Kohler, KG6208, 48- 60RCL, KG40- 80	1	1	1	1				
21	TP- 7096	S/M KG6208 6.2L Engine	1	1	1	1				
22	TP- 7097	S/M KG6208 Fuel System and Diagnostics	1	1	1	1				
23	TP- 7098	P/C KG6208 6.2L Engine	1	1	1	1				
24	TP- 7112	W/D KG40- 80, Gas, Industrial	1		1					
24	TP- 7130	W/D KG80R- 125R, Gas, Residential		1		1				
25	TP- 7118	P/C KG40- 125, Industrial	1	1	1	1		1	1	1
26	TP- 7124	O/I/M Engine Display Interface Software	1	1	1	1				
27	TP- 7125	Warranty, CARB/EPA SORE 2- yr 6.2L	1	1	1	1				
28	TP- 7139	P/C APM603 Controller, Industrial						1	1	1
29	TP- 7165	O/M 80- 500 Gaseous w/APM603, Ind., EN					1	1	1	1
30	TP- 7165- FR	O/M 80- 500 Gaseous w/APM603, Ind., FR					1	1	1	1
31	TP- 7165- ES	O/M 80- 500 Gaseous w/APM603, Ind., ES						1	1	1
32	TP- 7172	O/M KG 10.3L Engines					1	1	1	1
33	TP- 7172- FR	O/M KG 10.3L Engines, French					1	1	1	1
34	TP- 7172- ES	O/M KG 10.3L Engines, Spanish						1	1	1
35	TP- 7173	M/M Maintenance, KG80- KG200					1	1	1	1
36	TP- 7173- FR	M/M Maintenance, KG150, KG180, KG200 FR					1	1	1	1
37	TP- 7173- ES	M/M Maintenance, KG150, KG180, KG200 SP						1	1	1
38	TP- 7174	W/D, KG150, KG180, KG200, Industrial						1	1	1
39	TP- 7175	W/D, KG150R, Residential					1			
40	TP- 7177	P/C, KG10V08T 10.3L Engines						1	1	1

Notes

Enclosure

KG40-60, GM103335-KA1-KCB



GM103335-E

Enclosure

KG40- 60, GM103335-KA1-KCB

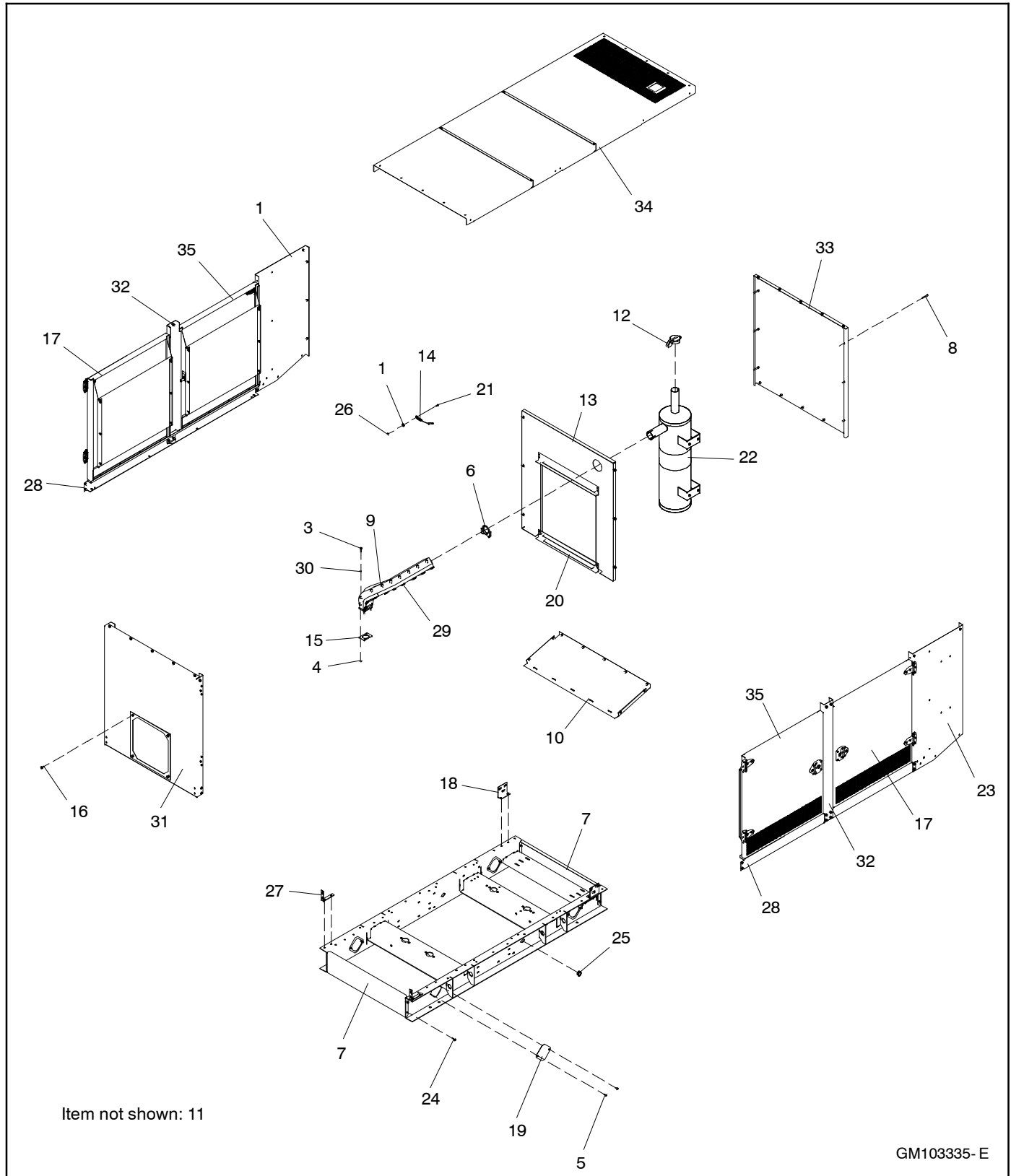
Item	Part Number	Description	Qty.
1	GM69227-4-S-KCB	Door assy, air intake	2
2	GM103845-1-S-KCB	Panel asm, enclosure front	1
3	GM103326-1-S-KCB	Panel, front side (LH)	1
4	GM103325-1-S-KCB	Panel, front side (RH)	1
5	GM103327-1-S-KCB	Support, center	2
6	25493 00006	Seal, push- on trim	1
7	GM103332-1-S-KCB	Roof asm, enclosure (steel)	1
8	GM103329-1-S-KCB	Baffle, radiator	1
9	M933-06020-60	Screw, hex cap M6 x 20	4
10	LK-1015-1515	Lead, ground	1
11	M6921-08050-60	Screw, hex flange M8 x 50	6
12	GM103328-1-S-KCB	Rail, lower frame	2
13	M6921-08020-60	Screw, hex flange M8 x 20	81
14	X-722-2	Clamp, muffler, 2.62 in.	1
15	324562	Cap, rain 2.5 in. (fits 2.5 in. tube)	1
16	GM104269	Insulation, exhaust tube	1
17	GM103333-1-S-KCB	Panel, rear	1
18	GM103334-S	Silencer	1
19	GM103336	Pipe, flex exhaust	1
20	M6923-08-80	Nut, hex 8 mm	12
21	X-67-141	Screw, hex washer, thread- forming	8
22	GM62597	Bracket, mounting	2
23	X-301-50	Plug, button	1
24	M125A-08-80	Washer, plain 8.4 ID x 16.0 OD	4
25	GM69219-4-S-KCB	Door assy, air intake ERES sound (RH)	2
26	M6923-06-80	Nut, hex 6 mm	4
27	GM11073	Cover, skid hole	4
28	X-22-16	Washer, lock .326 ID x .883 in. OD	12
29	GM102843	Gasket, exhaust	1
30	GM103330-S-KCB	Panel, lower exhaust	1
31	GM62599	Bracket, mounting	2
32	GM66776	End cap, skid	2
33	M931-08035-60	Screw, hex cap M8 x 35	4
34	GM101167-2	Assembly, decal (black)	1
34.1	GM101089-1	Decal, Rating 40	2
34.2	GM101089-2	Decal, Rating 45	2
34.3	GM101089-6	Decal, Rating 50	2
34.4	GM101089-3	Decal, Rating 60	2
34.5	GM15299	Decal, Rainproof Enclosure	2
34.6	GM91124-4	Decal, Kohler Logo	4
34.7	X-6348-22	Decal, KohlerPower.com	2
35	X-794-4	Screw, hex wshr hd, drill 1/4- 14 x 7/8	8

Use the chart below to identify the complete service assembly part number.

Kit No.	Enclosure Type	Complete Service Assembly
GM103335-KA1-KCB	Sound, Steel	GM103335-S1-KCB

Enclosure, continued

KG40-60, GM103335-KA2-KCB



Enclosure, continued

KG40-60, GM103335-KA2-KCB

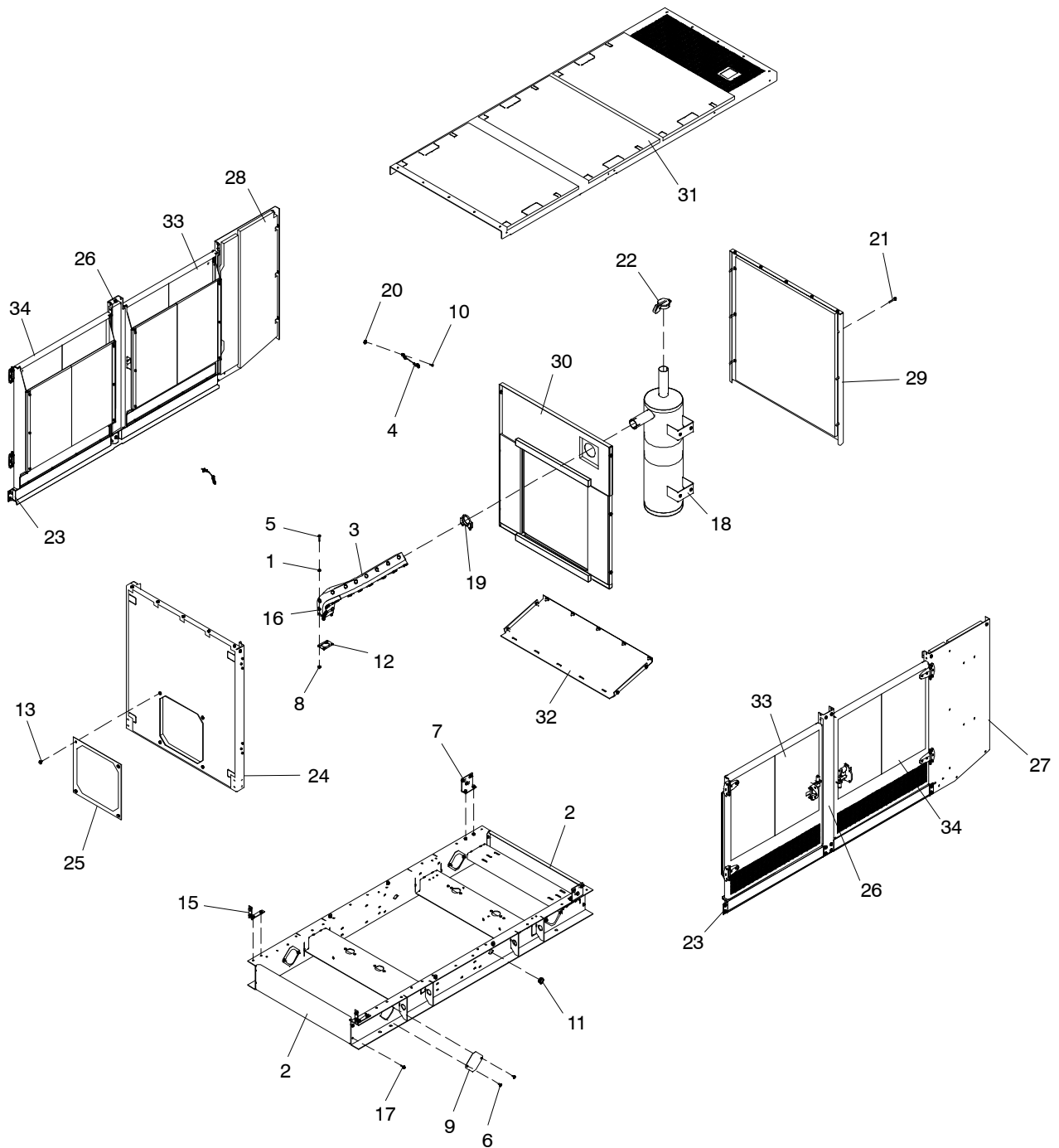
Item	Part Number	Description	Qty.
1	X-22-16	Washer, lock .326 ID x .883 in. OD	12
2	GM103326-2-S-KCB	Panel, front side (LH)	1
3	M931-08035-60	Screw, hex cap M8 x 35	4
4	M6923-08-80	Nut, Hex 8 mm	16
5	X-794-4	Screw, hex wshr hd, drill 1/4- 14 x 7/8	8
6	X-722-2	Clamp, muffler, 2.62 in.	1
7	GM66776	End cap, skid	2
8	M6921-08050-60	Screw, hex flange M8 x 50	6
9	GM103336	Pipe, flex exhaust	1
10	GM103330-2-S-KCB	Panel, lower exhaust	1
11.1	GM101089-1	Decal, Rating 40	2
11.2	GM101089-2	Decal, Rating 45	2
11.3	GM101089-6	Decal, Rating 50	2
11.4	GM101089-3	Decal, Rating 60	2
11.5	GM15299	Decal, Rainproof Enclosure	2
11.6	GM91124-4	Decal, Kohler Logo	4
11.7	X-6348-22	Decal, KohlerPower.com	2
12	324562	Cap, rain 2.5 in. (Fits 2.5 in. Tube)	1
13	GM103329-2-S-KCB	Baffle, radiator	1
14	LK-1015-1515	Lead, ground	4
15	GM102843	Gasket, exhaust	1
16	M6921-08020-60	Screw, hex flange M8 x 20	85
17	GM69227-5-S-KCB	Door assy, air intake	2
18	GM62597	Bracket, mounting	2
19	GM11073	Cover, skid hole	4
20	GM82183	Flange, radiator duct	2
21	M933-06020-60	Screw, Hex cap M6 x 20	4
22	GM103334-S	Silencer	1
23	GM103325-2-S-KCB	Panel, front side (RH)	1
24	X-67-141	Screw, hex washer, thread-forming	8
25	X-301-50	Plug, button	1
26	M6923-06-80	Nut, hex 6 mm	4
27	GM62599	Bracket, mounting	2
28	GM103328-2-S-KCB	Rail, lower frame	2
29	GM104269	Insulation, exhaust tube	1
30	M125A-08-80	Washer, plain 8.4 ID x 16.0 OD	4
31	GM103333-2-S-KCB	Panel, rear	1
32	GM103327-2-S-KCB	Support, center	2
33	GM103845-2-S-KCB	Panel asm, enclosure front	1
34	GM103332-2-S-KCB	Roof asm, enclosure (steel)	1
35	GM69219-5-S-KCB	Door assy air intake	2

Use the chart below to identify the complete service assembly part number.

Kit No.	Enclosure Type	Complete Service Assembly
GM103335-KA2-KCB	Weather, Steel	GM103335-S2-KCB

Enclosure, continued

KG40-60, GM103335-KA3-KCB



Items not shown: 14

GM103335- E

Enclosure, continued

KG40- 60, GM103335-KA3-KCB

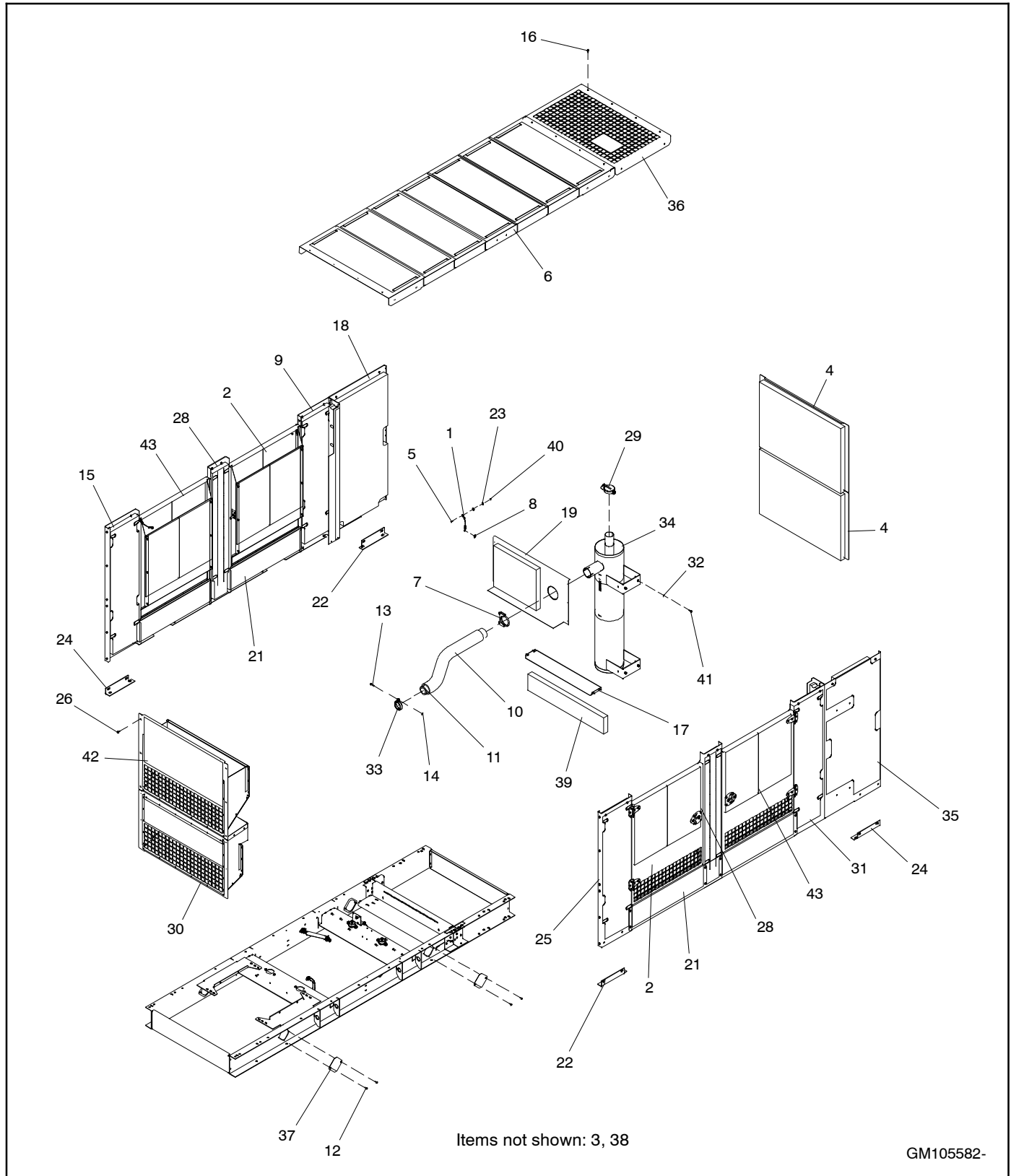
Item	Part Number	Description	Qty.
1	M125A-08-80	Washer, plain 8.4 ID x 16.0 OD	4
2	GM66776	End cap, skid	2
3	GM103336	Pipe, flex exhaust	1
4	LK-1015-1515	Lead, ground	4
5	M931-08035-60	Screw, hex cap M8 x 35	4
6	X-794-4	Screw, hex wshr hd, drill 1/4- 14 x 7/8	8
7	GM62597	Bracket, mounting	2
8	M6923-08-80	Nut, hex 8 mm	12
9	GM11073	Cover, skid hole	4
10	SA11939	Screw, drill, 1/4- 14, hex hd	4
11	X-301-50	Plug, button	1
12	GM102843	Gasket, exhaust	1
13	M6921-08020-60	Screw, hex flange M8 x 20	81
14.1	GM101089-1	Decal, Rating 40	2
14.2	GM101089-2	Decal, Rating 45	2
14.3	GM101089-6	Decal, Rating 50	2
14.4	GM101089-3	Decal, Rating 60	2
14.5	GM15299	Decal, Rainproof Enclosure	2
14.6	GM91124-4	Decal, Kohler Logo	4
14.7	X-6348-22	Decal, KohlerPower.com	2
15	GM62599	Bracket, mounting	2
16	GM104269	Insulation, exhaust tube	1
17	X-67-141	Screw, hex washer, thread- forming	8
18	GM103334-S	Silencer	1
19	X-722-2	Clamp, muffler, 2.62 in.	1
20	X-22-16	Washer, lock .326 ID x .883 in. OD	12
21	M6921-08050-60	Screw, hex flange M8 x 50	6
22	324562	Cap, rain 2.5 in. (Fits 2.50 in. Tube)	1
23	GM104010-1-S-KCB	Rail, lower frame	2
24	GM104014-1-S-KCB	Panel, rear	1
25	GM84217-1-S-KCB	Plate, alt access	1
26	GM104009-1-S-KCB	Support, center	2
27	GM104007-1-S-KCB	Panel, front side (RH)	1
28	GM104008-1-S-KCB	Panel, front side (RH)	1
29	GM104206-1-S-KCB	Panel, enclosure front	1
30	GM104011-1-S-KCB	Baffle, radiator	1
31	GM104013-1-S-KCB	Roof, enclosure	1
32	GM104012-1-S-KCB	Panel, lower exhaust	1
33	GM69221-4-S-KCB	Door assy, air intake	2
34	GM69229-4-S-KCB	Door assy, air intake	2

Use the chart below to identify the complete service assembly part number.

Kit No.	Enclosure Type	Complete Service Assembly
GM103335-KA3-KCB	Sound, Aluminum	GM103335-S3-KCB

Enclosure, continued

KG80-80R, GM105582-



Enclosure, continued

KG80- 80R, GM105582-

Item	Part Number	Description	Qty. GM105582		
			- KA1	- KA2	- KA3
1	LK-1015-1515	Lead, Ground	4	4	4
2	See chart	Door assy, Air intake (RH)	2	2	2
3	19000 08100	Foam, Gasket seal (7/8 in. tape)	2	2	1
4	See Chart	Panel, Front	2	2	2
5	M933-06020-60	Screw, Hex cap M6 x 20	4	4	4
6	See chart	Roof	1	1	1
7	286286	Clamp, Muffler, 3.62 in.	1	1	1
8	X-22-16	Washer, Lock .326 ID x .883 in. OD	4	4	4
9	See Chart	Panel, Corner left	1	1	1
10	GM105003	Wrap, Flex exhaust	1	1	1
11	GM104552	Exhaust, Flex	1	1	1
12	X-794-1	Screw, Hex wshr hd, drill 1/4- 14 x 5/8	8	8	8
13	336851	Screw, Hex head machine, special thread	1	1	1
14	X-6210-7	Nut, Flange spiralock, 5/16- 18	1	1	1
15	See chart	Panel, Corner right	1	1	1
16	X-794-4	Screw, Hex wshr hd, drill 1/4- 14 x 7/8	34	34	-
17	See chart	Panel, Radiator lower	1	1	1
18	See chart	Panel, Front LH	1	1	1
19	See chart	Baffle, Radiator upper	1	1	1
21	See chart	Frame, Lower door	2	2	2
22	GM62594	Bracket, Mounting (LH)	2	2	2
23	X-22-12	Washer, Lock .262 ID x .743 in. OD	8	8	8
24	GM62593	Bracket, Mounting (RH)	2	2	2
25	See chart	Panel, Corner left	1	1	1
26	M6921-08020-60	Screw, Hex flange M8 x 20	74	74	126
28	See chart	Panel, Center support	2	2	2
29	253191	Cap, Rain (fits 3 in. tube)	1	1	1
30	See chart	Panel, Rear intake (lower)	1	1	1
31	See chart	Panel, Corner right	1	1	1
32	M125A-08-80	Washer, Plain 8.4 ID x 16.0 OD	4	4	4
33	GM22535	Clamp, exhaust (3.34 in.)	1	1	1
34	GM104902-S	Silencer	1	1	1
35	See chart	Panel, Front RH	1	1	1
36	See chart	Roof, Front exhaust	1	1	1
37	GM11073	Cover, Skid hole	4	4	4
38	GM101167	Dwg, Decal Assy.	1	1	1
39	GM71078-4	Insulation, Acoustic Foam	1	1	1
40	M6923-06-80	Nut, Hex 6mm	4	4	4
41	M933-08025-60	Screw, Hex cap M8 x 25	4	4	4
42	See chart	Panel, Rear intake (upper)	1	1	1
43	See chart	Door assy, Air intake (LH)	2	2	2

Use these tables to identify part numbers of items 2, 4, 6, 9, 15, 17, 18-21, 25, 28, 30-31, 35-36, 42-43

Module	Part Number					
	Item 2	Item 4	Item 6	Item 9	Item 15	Item 17
GM105582-KA1	GM64179-4-S**	GM104121-1-S**	GM104126-1-S**	GM104472-1-S**	GM104118-1-S**	GM105588**
GM105582-KA2	GM64179-5-S**	GM104121**	GM104126-2-S**	GM104472-2-S**	GM104118-2-S**	GM105588**
GM105582-KA3	GM65608-4-S**	GM104143-1-S**	GM104147-1-S**	GM104474-1-S**	GM104140-1-S**	GM105592**

Module	Part Number					
	Item 18	Item 19	Item 21	Item 25	Item 28	Item 30
GM105582-KA1	GM105585-1-S**	GM105587-1-S**	GM104124-1-S**	GM104117-1-S**	GM104125-1-S**	GM104120-1-S**
GM105582-KA2	GM105585-2-S**	GM105587**	GM104124-2-S**	GM104117-2-S**	GM104125-2-S**	GM104120-2-S**
GM105582-KA3	GM105590-1-S**	GM105591-1-S**	GM104138-1-S**	GM104139-1-S**	GM104146-1-S**	GM104142-1-S**

Module	Part Number				
	Item 31	Item 35	Item 36	Item 42	Item 42
GM105582-KA1	GM104471-1-S**	GM105586-1-S**	GM104123**	GM104119-1-S**	GM64176-1-S**
GM105582-KA2	GM104471-1-S**	GM105586-2-S**	GM104123**	GM104119-2-S**	GM64176-2-S**
GM105582-KA3	GM104473-1-S**	GM105589-1-S**	GM104145-S**	GM104141-1-S**	GM65611-1-S**

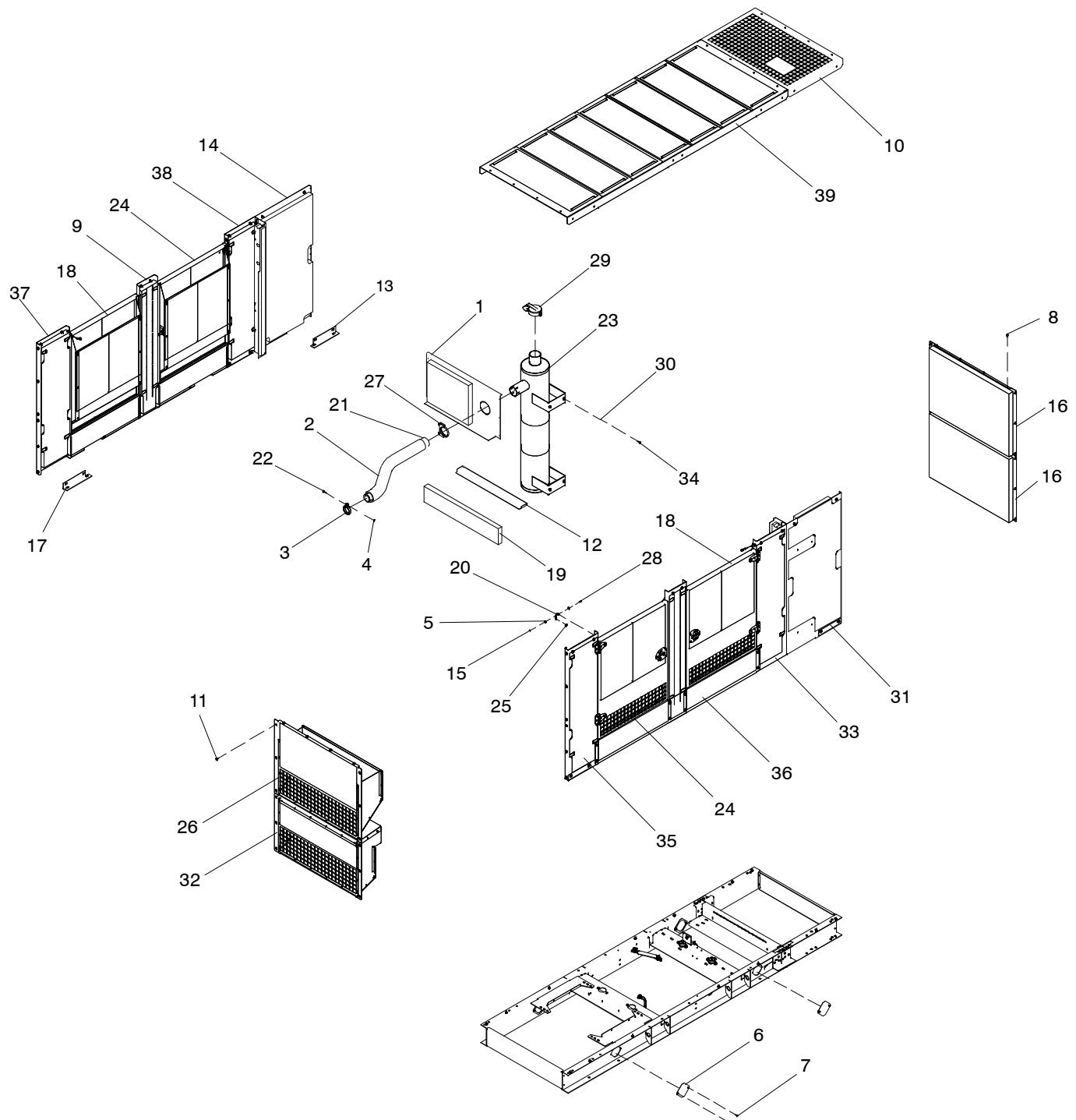
** Use the Module number and chart below to identify the color suffix and to identify the complete service assembly part number.

Add a suffix to this color dependent part number before ordering.

Module No.	Complete Service Assembly	Color Dependant Parts	
		Part Number Suffix	Part Number Example (item 2)
GM105582-KA1-KCB	GM105582-S1-KCB	-KCB	GM64179-4-S-KCB
GM105582-KA2-KCB	GM105582-S2-KCB	-KCB	GM64179-5-S-KCB
GM105582-KA3-KCB	GM105582-S3-KCB	-KCB	GM64179-5-S-KCB
GM105582-KA1-CAS	GM105582-S1-CAS	-CAS	GM64179-4-S-CAS
GM105582-KA3-CAS	GM105582-S1-CAS	-CAS	GM65608-4-S-CAS

Enclosure, continued

KG100(R)-125(R), GM104103-



Items not shown: 40, 41, 42, 43, 44

GM104103-

Enclosure, continued

KG100(R) - 125(R), GM104103-

Item	Part Number	Description	Qty. GM104103-		
			KA1	KA2	KA3
1	See chart	Baffle, Radiator Upper	1	1	1
2	GM105003	Wrap, Flex exhaust	1	1	1
3	GM22535	Clamp, exhaust (3.34 in.)	1	1	1
4	X- 6210- 7	Nut, flange spiralock, 5/16- 18	1	1	1
5	X- 22- 12	Washer, lock.262 ID x .743 in. OD	8	8	8
6	GM11073	Cover, Skid Hole	4	4	4
7	X- 794- 1	Screw, hex wshr hd, drill 1/4- 14 x 5/8	8	8	8
8	See chart	Screw, hex wshr hd, drill 1/4- 14 x 7/8	34	34	-
9	See chart	Panel, Center Support (NST)	2	2	2
10	See chart	Roof, Front Exhaust	1	1	1
11	M6921- 08020- 60	Screw, Hex Flange M8 x 20	74	74	126
12	See chart	Panel, Radiator Lower	1	1	1
13	GM62594	Bracket, Mounting (LH)	2	2	2
14	See chart	Panel, Front LH	1	1	1
15	M6923- 06- 80	Nut, Hex 6 mm	4	4	4
16	See chart	Panel, Front	2	2	2
17	GM62593	Bracket, Mounting (RH)	2	2	2
18	See chart	Door Assy, Air Intake (LH)	2	2	2
19	GM71078- 4	Insulation, Acoustic Foam	1	1	1
20	LK- 1015- 1515	Lead, Ground	4	4	4
21	GM104552	Exhaust, Flex	1	1	1
22	336851	Screw, hex head machine, special thread	1	1	1
23	GM104904- S	Silencer	1	1	1
24	See chart	Door Assy, Air Intake	2	2	2
25	X- 22- 16	Washer, Lock .326 in. ID x .883 in. OD	4	4	4
26	See chart	Panel, Rear Intake (Upper)	1	1	1
27	286286	Clamp, muffler, 3.62 in.	1	1	1
28	M933- 06020- 60	Screw, Hex Cap M6 x 20	4	4	4
29	253990	CAP, RAIN (FITS 4.0 IN TUBES)	1	1	1
30	M125A- 08- 80	Washer, Plain 8.4 ID x 16.0 OD	4	4	4
31	See chart	Panel, Front RH	1	1	1
32	See chart	Panel, Rear Intake (Lower)	1	1	1
33	See chart	Panel, Corner Right	1	1	1
34	M933- 08025- 60	Screw, Hex Cap M8 x 25	4	4	4
35	See chart	Panel, Corner Left	1	1	1
36	See chart	Frame, Lower Door (NST)	2	2	2
37	See chart	Panel, Corner Right	1	1	1
38	See chart	Panel, Corner Left	1	1	1
39	See chart	Roof	1	1	1
40	GM101167	Dwg, Decal Assembly	1	1	1
41	19000 08100	Foam, gasket seal (7/8 in. tape)	2	2	2
42	25493- 00001	Seal: B1- M2- S1- C1- T1	1	1	1
43	See chart	Seal: B3- M3- S1- C1- T1	1	1	
43	See chart	Seal: B4- M2- S1- C1- T1			1
44	See chart	Sealant, Dow RTV 732	1	1	-

Use these tables to identify part numbers of items 1, 8-10, 12, 14, 16, 18, 24, 26, 31-33, 35-39, 43-44

Module	Part Number				
	Item 1	Item 8	Item 9	Item 10	Item 12
GM104103-KA1	GM104109-1-S**	X- 794- 4	GM104125-1-S**	GM104123**	GM104888**
GM104103-KA2	GM104109	X- 794- 4	GM104125-2-S**	GM104123**	GM104888**
GM104103-KA3	GM104129-1-S**	-	GM104146-1-S**	GM104145-S**	GM105285**

Module	Part Number					
	Item 14	Item 16	Item 18	Item 24	Item 26	Item 31
GM104103-KA1	GM104107-1-S**	GM104121-1-S**	GM64176-1-S**	GM64179-4-S**	GM104119-1-S**	GM104108-1-S**
GM104103-KA2	GM104107-2-S**	GM104121**	GM64176-2-S**	GM64179-5-S**	GM104119-2-S**	GM104108-2-S**
GM104103-KA3	GM104128-1-S**	GM104143-1-S**	GM65611-1-S**	GM65608-4-S**	GM104141-1-S**	GM104127-1-S**

Module	Part Number					
	Item 32	Item 33	Item 35	Item 36	Item 37	Item 38
GM104103-KA1	GM104120-1-S**	GM104471-1-S**	GM104117-1-S**	GM104124-1-S**	GM104118-1-S**	GM104472-1-S**
GM104103-KA2	GM104120-2-S**	GM104471-2-S**	GM104117-2-S**	GM104124-2-S**	GM104118-2-S**	GM104472-2-S**
GM104103-KA3	GM104142-1-S**	GM104473-1-S**	GM104139-1-S**	GM104138-1-S**	GM104140-1-S**	GM104474-1-S**

Module	Part Number		
	Item 39	Item 43	Item 44
GM104103-KA1	GM104126-1-S**	25493 00006	32200 00198
GM104103-KA2	GM104126-2-S**	25493 00006	32200 00198
GM104103-KA3	GM104147-1-S**	25493 00007	-

** Use the Module number and chart below to identify the color suffix and to identify the complete service assembly part number.

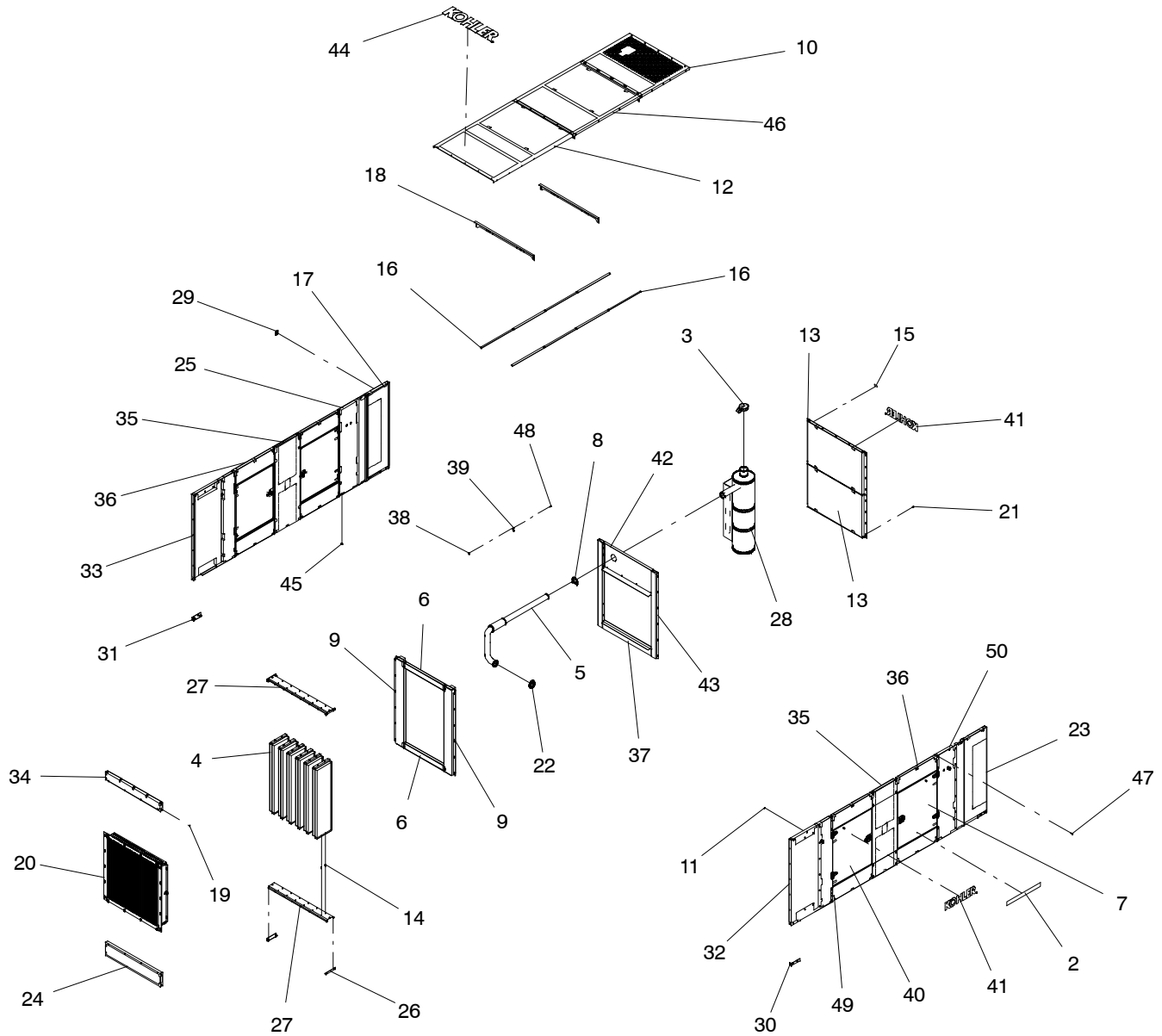
Add a suffix to this color dependent part number before ordering.

Module No.	Complete Service Assembly	Color Dependant Parts	
		Part Number Suffix	Part Number Example (item 9)
GM104103-KA1-KCB	GM104103-S1-KCB	-KCB	GM104125-1-S-KCB
GM104103-KA2-KCB	GM104103-S2-KCB	-KCB	GM104125-2-S-KCB
GM104103-KA3-KCB	GM104103-S3-KCB	-KCB	GM104146-1-S-KCB
GM104103-KA1-CAS	GM104103-S1-CAS	-CAS	GM104125-1-S-CAS
GM104103-KA3-CAS	GM104103-S3-CAS	-CAS	GM104146-1-S-CAS

Notes

Enclosure, continued

KG150(R)-KG200



Items not shown: 51, 52, 53, 54, 55

GM106528-

Enclosure, continued

KG150(R)- KG200

Item	Part Number	Description	Quantity									
			Module Number									
			GM106528-KA1-KCB	GM105313-KA1-KCB	GM105315-KA2-KCB	GM105317-KA1-KCB	GM106530-KA1-KCB	GM106530-KA2-KCB	GM106532-KA1-KCB	GM106532-KA2-KCB	GM105317-KA1-CAS	GM106532-KA1-CAS
1	See chart	Enclosure, Sound, Steel	1	1	1	1	1	1	1	1	1	1
2	X-6348-22	Decal, KohlerPower.com	2	2	2	2	2	2	2	2	2	2
3	324601	Cap, Rain (Fits 5.0 In Tubes)	1	1	1	1	1	1	1	1	1	1
4	GM107577-1-S	Panel, Intake Baffle	6	6								
5	GM105539	Tube, Exhaust Flex	1	1	1	1	1	1	1	1	1	1
6	GM107570-1-S	Panel, Intake Plenum Top/Btm	2	2								
7	See chart	Assy, Door Right Alum	2	2	2	2	2	2	2	2	2	2
8	286286	Clamp, muffler, 3.62 in.	1	1	1	1	1	1	1	1	1	1
9	GM107576-1-S	Panel, Intake Plenum Side	2	2								
10	See chart	Panel, Roof Discharge	1	1	1	1	1	1	1	1	1	1
11	M933-06010-60	Screw, Hex Cap M6 X 10	4	4	4	4	4	4	4	4	4	4
12	See chart	Panel, Roof	1				1	1	1	1		1
13	See chart	Panel, Discharge End	2	2	2	2	2	2	2	2	2	2
14	X-794-4	Screw, hex wshr hd, drill 1/4- 14 x 7/8	12	12								
15	GM15299	Decal, Rainproof Enclosure	2	2	2	2	2	2	2	2	2	2
16	See chart	Support, Foam	8	8	8	6	8		6		6	6
17	See chart	Panel, Corner (RH)	1	1	1	1	1	1	1	1	1	1
17	See chart	Panel, Corner (RH)			1	1	1	1	1	1	1	1
18	See chart	Support, Roof	2	2	2	2	2	2	2	2	3	2
19	M6923-08-80	Nut, Hex 8 mm	22	22	4	14	14	4	14	14	4	14
20	GM108074	Louver, Intake Assy	1	1								
21	M6921-08020-60	Screw, Hex Flange M8 x 20	238	233	183	183	188	188	188	188	183	188
22	GM111078	Band, V- Band (4.25 In.)	1	1	1	1	1	1	1	1	1	1
23	See chart	Panel, Corner (LH)	1	1	1	1	1	1	1	1	1	1
23	See chart	Panel, Corner (LH)			1	1	1	1	1	1	1	1
24	See chart	Panel, Intake End Lower	1	1	1	1	1	1	1	1	1	1
25	See chart	Panel, Door Hinge LH	1	1	1	1	1	1	1	1	1	1
26	GM107569-S	Support, Intake Channel	4	4								
27	GM107568	Support, Intake Baffle	2	2								
28	GM107092-S	Silencer, ERC	1	1		1	1	1	1	1	1	1
29	GM107366	Decal, Caution, Hot Surface	1	1	1	1	1	1	1	1	1	1
30	GM107409-S**	Bracket, Housing Support	2	2	2	2	2	2	2	2	2	2
31	GM107408-S**	Bracket, Housing Support	2	2	2	2	2	2	2	2	2	2
32	See chart	Panel, Door Hinge RH	1	1								
33	See chart	Panel, Door Hinge LH	1	1								
34	See chart	Panel, Intake End Upper	1	1	1	1	1	1	1	1	1	1
35	See chart	Panel, Center Support	2	2	2	2	2	2	2	2	2	2
36	See chart	Panel, Upper Door	2	2	2	2	2	2	2	2	2	2
37	See chart	Panel, Discharge Plenum Lower	1	1	1	1	1	1	1	1	1	1
38	X-22-12	Washer, lock.262 IDx.743 in. OD	8	8	8	8	8	8	8	8	8	8
39	LK-1015-1515	Lead, Ground	4	4	4	4	4	4	4	4	4	4
40	See chart	Assy, Door Left Alum	2	2	1	2	1	1	2	2	2	2
40	See chart	Assy, Intake Door Left Alum			1		1	1				
41	GM91124-4	Decal, Kohler Logo	3	3	4	4	4	4	4	4	4	4
42	GM106590-S	Panel, Discharge Plenum Upper	1	1	1	1	1	1	1	1	1	1
43	See chart	Panel, Discharge Plenum Side	2	2	2	2	2	2	2	2	2	2
44	GM91124-5	Decal, Kohler Logo	1	1								
45	X-22-14	Washer, lock, .391 ID x .975 in. OD	8	8	8	8	8	8	8	8	8	8
46	See chart	Panel, Roof	1	1	1	1	1	1	1	1	1	1
47	M6921-08030-60	Screw, Hex Flange (M8- 1.25 X 30 mm)	8	8	8	8	8	8	8	8	8	8
48	SA11939	Screw, Hex Hd, Drill 1/4- 14 X 7/8 in.	8	8	8	8	8	8	8	8	8	8
49	See chart	Panel, Lower Door	2	2	2	2	2	2	2	2	2	2
50	See chart	Panel, Door Hinge RH	1	1	1	1	1	1	1	1	1	1
51	25493 00007	Seal: B4-M2-S1-C1-T1 (Length - 50.40 ft.)	4	4	4	4	4	4	4	4	4	4
52	See chart	Foam, Neoprene Blend	5	5	1	1	2	2	2	2	1	2
53	25493 00001	Seal: B1-M2-S1-C1-T1 (Length - 14.40 ft.)	4	4	4	4	4	4	4	4	4	4
54	32000 00110	Tape, Black Bonding (Length - 17.20 ft.)	1		1	1	1		1	1	4	3
55	See chart	Encl Assy, Sound, Alum	1	1	1	1					1	
-	GM109424-1	Assembly, Decal (Black)	1	1								
-	GM11040-4	Insert, Threaded, M8 x 1.25, Hex	8	8	8	8	8	8	8	8	8	8

Use these tables to identify part numbers of items 1, 7, 10, 12, 13, 16- 18, 23- 25, 32- 37, 40, 43, 46, 49, 50, 52, 53

Module	Part Number					
	Item 1	Item 7	Item 10	Item 12	Item 13	Item 16
GM106528-KA1	GM106528-S1**	GM107065-2**	GM106585-1-S**	GM111118-1-S**	GM106586-1-S**	GM106575-S
GM105313-KA1	GM105313-S1**	GM107061-2**	GM107779-1-S**	-	GM107987-1-S**	GM106575-S
GM105315-KA1	GM105315-S1**	GM107063-2**	GM107986-1-S**	-	GM107987-1-S**	GM106575-S
GM105317-KA1	GM105317-S1**	GM107063-2**	GM107986-1-S**	-	GM107987-1-S**	GM106552-S
GM106530-KA1	GM106530-S1**	GM107067-2**	GM106585-1-S**	GM111117-1-S**	GM106586-1-S**	GM106575-S
GM106530-KA2	GM106530-S2**	GM107067-1**	GM106585-2-S**	GM111117-2-S**	GM106586-2-S**	-
GM106532-KA1	GM106532-S1**	GM107067-2**	GM106585-1-S**	GM111116-1-S**	GM106586-1-S**	GM106552-S
GM106532-KA2	GM106532-S2**	GM107067-1**	GM106585-2-S**	GM111116-2-S**	GM106586-2-S**	-
GM105317-KA1	GM105317-S1**	GM107063-2**	GM107986-1-S**	-	GM107987-1-S**	GM106552-S
GM106532-KA1	GM106532-S1**	GM107067-2**	GM106585-1-S**	GM111116-1-S**	GM106586-1-S**	GM106552-S

Module	Part Number					
	Item 17	Item 18	Item 23	Item 24	Item 25	Item32
GM106528-KA1	GM106583-1-S**	GM106574-S**	GM106584-1-S**	GM107565-1-S**	GM106582-1-S**	GM107412-1-S**
GM105313-KA1	GM107984-1-S**	GM107951-S**	GM107985-1-S**	GM107566-1-S**	GM107983-1-S**	GM107134-2-S**
GM105315-KA1	GM107984-1-S**	GM107951-S**	GM107985-1-S**	GM107989-1-S**	GM107983-1-S**	-
	GM107952-1-S**		GM107953-1-S**			
GM105317-KA1	GM107984-1-S**	GM107951-S**	GM107985-1-S**	GM107989-1-S**	GM107983-1-S**	-
	GM107977-1-S**		GM107978-1-S**			
GM106530-KA1	GM106583-1-S**	GM106574-S**	GM106584-1-S**	GM106588-1-S**	GM106582-1-S**	-
	GM107379-1-S**		GM107380-1-S**			
GM106530-KA2	GM106583-2-S**	GM106574-S**	GM106584-2-S**	GM106588-2-S**	GM106582-2-S**	-
	GM107379-2-S**		GM107380-2-S**			
GM106532-KA1	GM106583-1-S**	GM106574-S**	GM106584-1-S**	GM106588-1-S**	GM106582-1-S**	-
	GM106576-1-S**		GM106577-1-S**			
GM106532-KA2	GM106583-2-S**	GM106574-S**	GM106584-2-S**	GM106588-2-S**	GM106582-2-S**	-
	GM106576-2-S**		GM106577-2-S**			
GM105317-KA1	GM107977-1-S**	GM107951-S**	GM107978-1-S**	GM107989-1-S**	GM107983-1-S**	-
	GM107984-1-S**		GM107985-1-S**			
GM106532-KA1	GM106576-1-S**	GM106574-S**	GM106577-1-S**	GM106588-1-S**	GM106582-1-S**	-
	GM106583-1-S**		GM106584-1-S**			

Module	Part Number					
	Item 33	Item 34	Item 35	Item 36	Item 37	Item40
GM106528-KA1	GM107413-1-S**	GM107564-1-S**	GM107410-1-S**	GM107411-1-S**	GM106592-1-S	GM107064-2**
GM105313-KA1	GM107135-1-S**	GM107780-1-S**	GM107777-1-S**	GM107133-1-S**	GM106592-1-S	GM107060-2**
GM105315-KA1	-	GM107988-1-S**	GM107777-1-S**	GM107133-1-S**	GM106592-1-S	GM107062-2**
						GM111142-2**
GM105317-KA1	-	GM107988-1-S**	GM107979-1-S**	GM107980-1-S**	GM106592-1-S	GM107062-2**
GM106530-KA1	-	GM106587-1-S**	GM107410-1-S**	GM107411-1-S**	GM106592-1-S	GM107066-2**
						GM111141-2**
GM106530-KA2	-	GM106587-2-S**	GM107410-2-S**	GM107411-2-S**	GM106592-2-S	GM107066-1**
						GM111141-1**
GM106532-KA1	-	GM106587-1-S**	GM106578-1-S**	GM106579-1-S**	GM106592-1-S	GM107066-2**
GM106532-KA2	-	GM106587-2-S**	GM106578-2-S**	GM106579-2-S**	GM106592-2-S	GM107066-1**
GM105317-KA1	-	GM107988-1-S**	GM107979-1-S**	GM107980-1-S**	GM106592-1-S	GM107062-2**
GM106532-KA1	-	GM106587-1-S**	GM106578-1-S**	GM106579-1-S**	GM106592-1-S	GM107066-2**

Module	Part Number					
	Item 43	Item 46	Item 49	Item 50	Item 52	Item 55
GM106528-KA1	GM106591-1-S**	GM107383-1-S**	GM107391-1-S**	GM106581-1-S**	19010 08114	GM106527-1**
GM105313-KA1	GM106591-1-S**	GM107969-1-S**	GM107964-1-S**	GM107982-1-S**	19010 08114	GM105312-1**
GM105315-KA1	GM106591-1-S**	GM107956-1-S**	GM107964-1-S**	GM107982-1-S**	19010 08114	GM105314-1**
GM105317-KA1	GM106591-1-S**	GM107981-1-S**	GM107964-1-S**	GM107982-1-S**	19010 08114	GM105316-1**
GM106530-KA1	GM106591-1-S**	GM107383-1-S**	GM107391-1-S**	GM106581-1-S**	19010 08114	-
GM106530-KA2	GM106591-2-S**	GM107383**	GM107391-2-S**	GM106581-2-S**	19010 08114	-
GM106532-KA1	GM106591-1-S**	GM106580-1-S**	GM106589-1-S**	GM106581-1-S**	19010 08114	-
GM106532-KA2	GM106591-2-S**	GM106580S**	GM106589-2-S**	GM106581-2-S**	19010 08114	-
GM105317-KA1	GM106591-1-S**	GM107981-1-S**	GM107990-1-S**	GM107982-1-S**	19010 08114	GM105316-1**
GM106532-KA1	GM106591-1-S**	GM106580-1-S**	GM106589-1-S**	GM106581-1-S**	19010 08114	-

** Use the Module number and chart below to identify the color suffix
and to identify the complete service assembly part number.

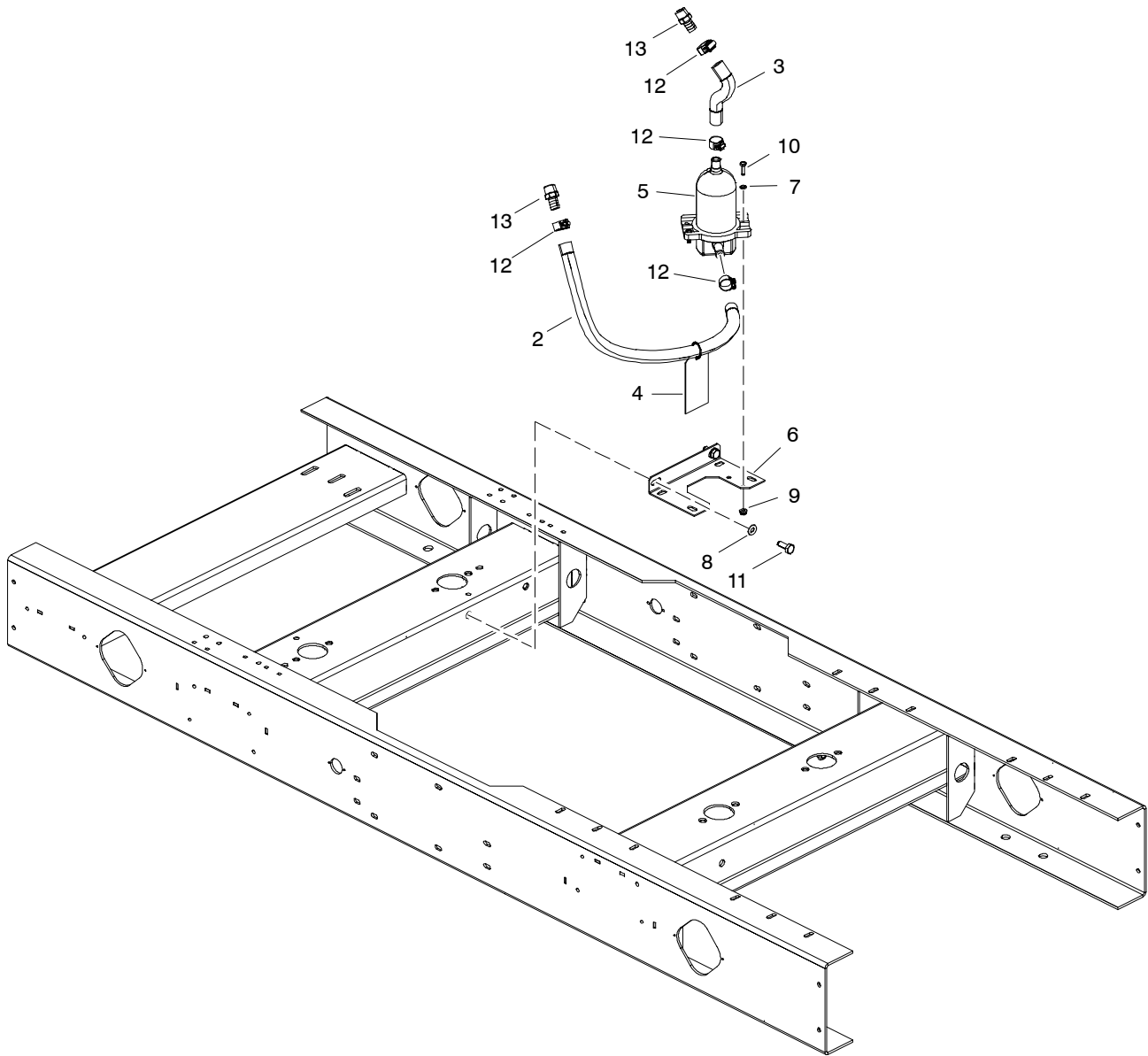
Add a suffix to this color dependent part number before ordering.

Module No.	Complete Service Assembly	Color Dependant Parts	
		Part Number Suffix	Part Number Example (item 10)
GM106528-KA1-KCB	GM106528-S1-KCB	-KCB	GM106585-1-S-KCB
GM105313-KA1-KCB	GM105313-S1-KCB	-KCB	GM107779-1-S-KCB
GM105315-KA1-KCB	GM105315-S1-KCB	-KCB	GM107986-1-S-KCB
GM105317-KA1-KCB	GM105317-S1-KCB	-KCB	GM107986-1-S-KCB
GM106530-KA1-KCB	GM106530-S1-KCB	-KCB	GM106585-1-S-KCB
GM106530-KA2-KCB	GM106530-S2-KCB	-KCB	GM106585-2-S-KCB
GM106532-KA1-KCB	GM106532-S1-KCB	-KCB	GM106585-1-S-KCB
GM106532-KA2-KCB	GM106532-S2-KCB	-KCB	GM106585-2-S-KCB
GM105317-KA1-CAS	GM105317-S1-CAS	-CAS	GM107986-1-S-CAS
GM106532-KA1-CAS	GM106532-S1-CAS	-CAS	GM106585-1-S-CAS

Module No.	Color Dependant Parts		
	Part Number Suffix	Part Number Example (item 30)	Part Number Example (item 31)
GM106528-KA1-KCB	-BLK	GM107409-S-BLK	GM107408-S-BLK
GM105313-KA1-KCB	-BLK	GM107409-S-BLK	GM107408-S-BLK
GM105315-KA1-KCB	-BLK	GM107409-S-BLK	GM107408-S-BLK
GM105317-KA1-KCB	-BLK	GM107409-S-BLK	GM107408-S-BLK
GM106530-KA1-KCB	-BLK	GM107409-S-BLK	GM107408-S-BLK
GM106530-KA2-KCB	-BLK	GM107409-S-BLK	GM107408-S-BLK
GM106532-KA1-KCB	-BLK	GM107409-S-BLK	GM107408-S-BLK
GM106532-KA2-KCB	-BLK	GM107409-S-BLK	GM107408-S-BLK
GM105317-KA1-CAS	-BLK	GM107409-S-BLK	GM107408-S-BLK
GM106532-KA1-CAS	-BLK	GM107409-S-BLK	GM107408-S-BLK

Block Heater

KG40-60, GM104799-KA1



GM104799- B

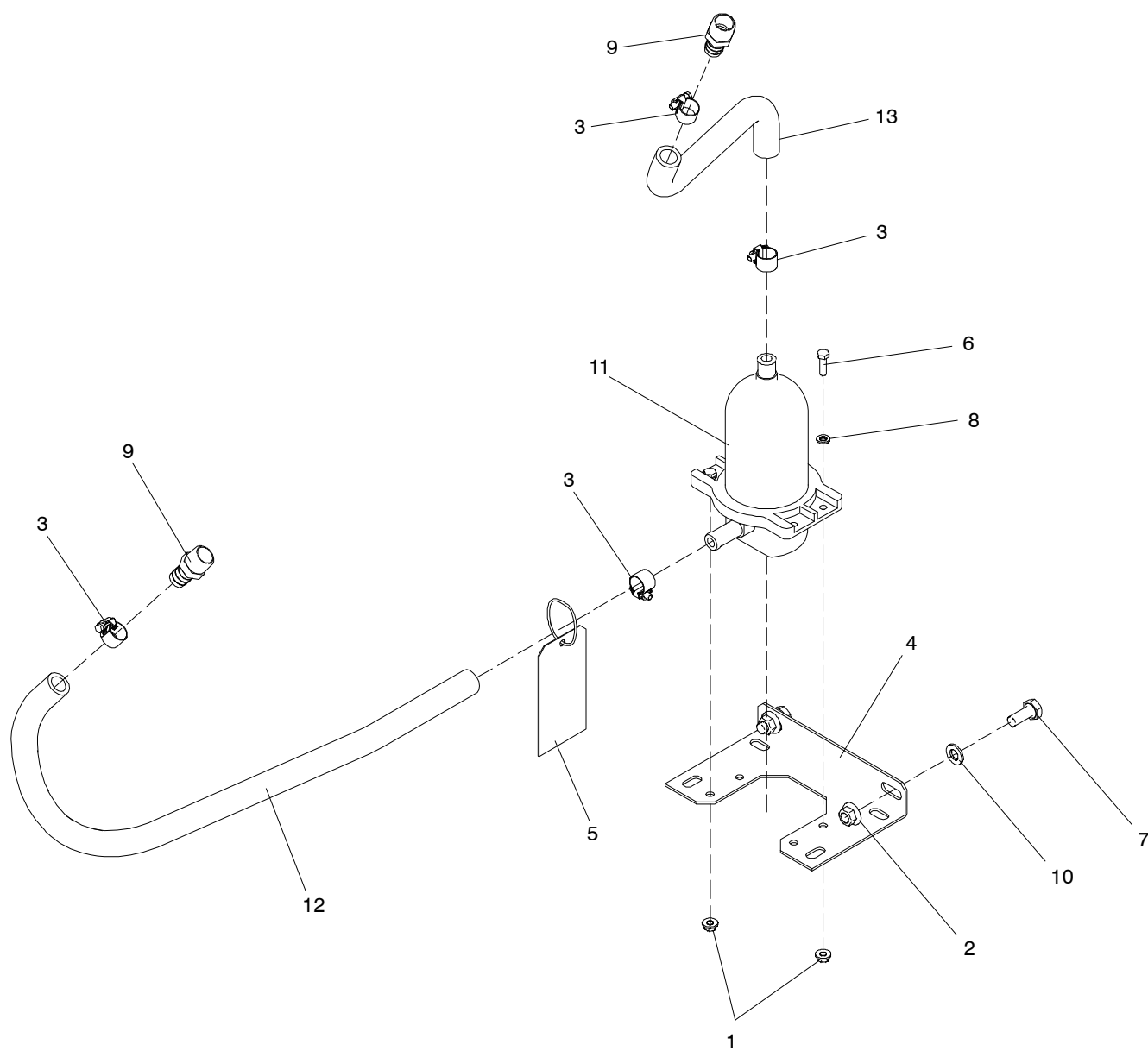
Block Heater

KG40-60, GM104799-KA1

Item	Part Number	Description	Qty.
2	X-312-50	Hose	1
3	X-571-2	Hose	1
4	279047	Tag, Hang	1
5	352945	Heater, Block (120V, 1500W)	1
6	GM64285	Bracket, Block heater mtg.	1
7	M125A-06-80	Washer, Plain 6.4 ID x 12.0 OD	2
8	M125A-10-80	Washer, Plain 10.5 ID x 20.0 OD	2
9	M6923-06-80	Nut, Hex 6 mm	2
10	M933-06020-60	Screw, Hex cap	2
11	M933-10025-60	Screw, Hex cap	2
12	X-426-12	Clamp, Hose, .69/1.25 in.	4
13	X-582-1	Connector, Hose 5/8 in. x 1/2 in. mip brass	2

Block Heater, continued

KG80- KG80R, GM105165-



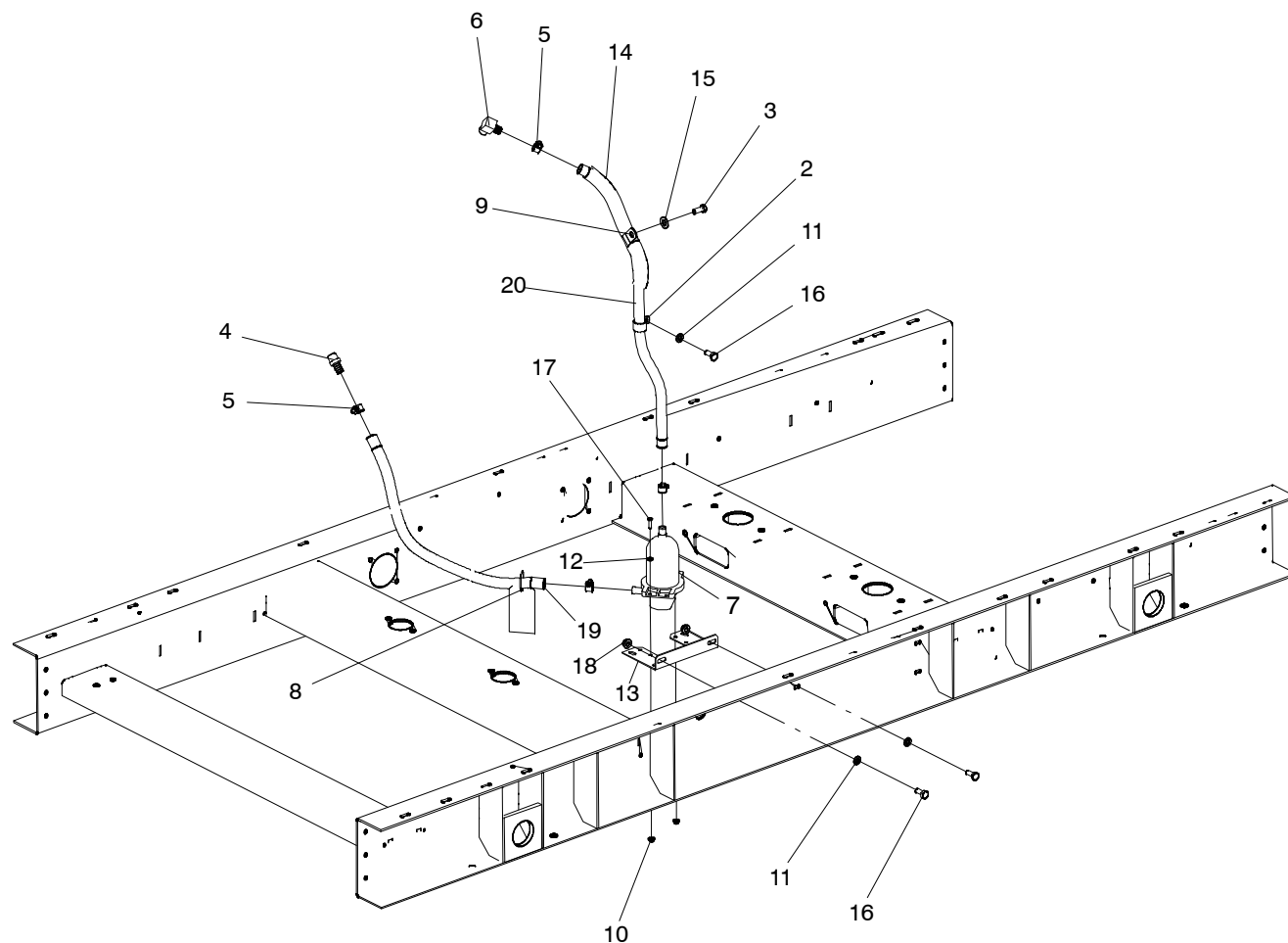
GM105165

Block Heater, continued

Item	Part Number	Description	KG80(R)- KG125(R), GM105165- Qty.	
			GM105165- KA1	GM105165- KA2
1	M6923-06-80	Nut, Hex 6 mm	2	2
2	M6923-10-80	Nut, Hex 10 mm	2	2
3	X-426-12	Clamp, Hose, .69/1.25 in.	4	4
4	GM64285	Bracket, Block heater mtg.	1	1
5	279047	Tag, Hang	1	1
6	M933-06020-60	Screw, Hex cap M6 x 20	2	2
7	M933-10025-60	Screw, Hex cap M10 x 25	2	2
8	M125A-06-80	Washer, Plain 6.4 ID x 12 OD	2	2
9	X-582-1	Connector, Hose 5/8 in. x 1/2 in. MIP brass	2	2
10	M125A-10-80	Washer, Plain 10.5 ID x 20 OD	2	2
11	352945	Heater, Block (120V, 1500W)	1	
11	352946	Heater, Block (240V, 1500W)		1
12	X-312-24	Hose, 0.63 in. ID	1	1
13	276206	Hose, Molded (0.62 in. ID)	1	1

Block Heater, continued

KG150(R)-KG200, GM105409-



GM105409

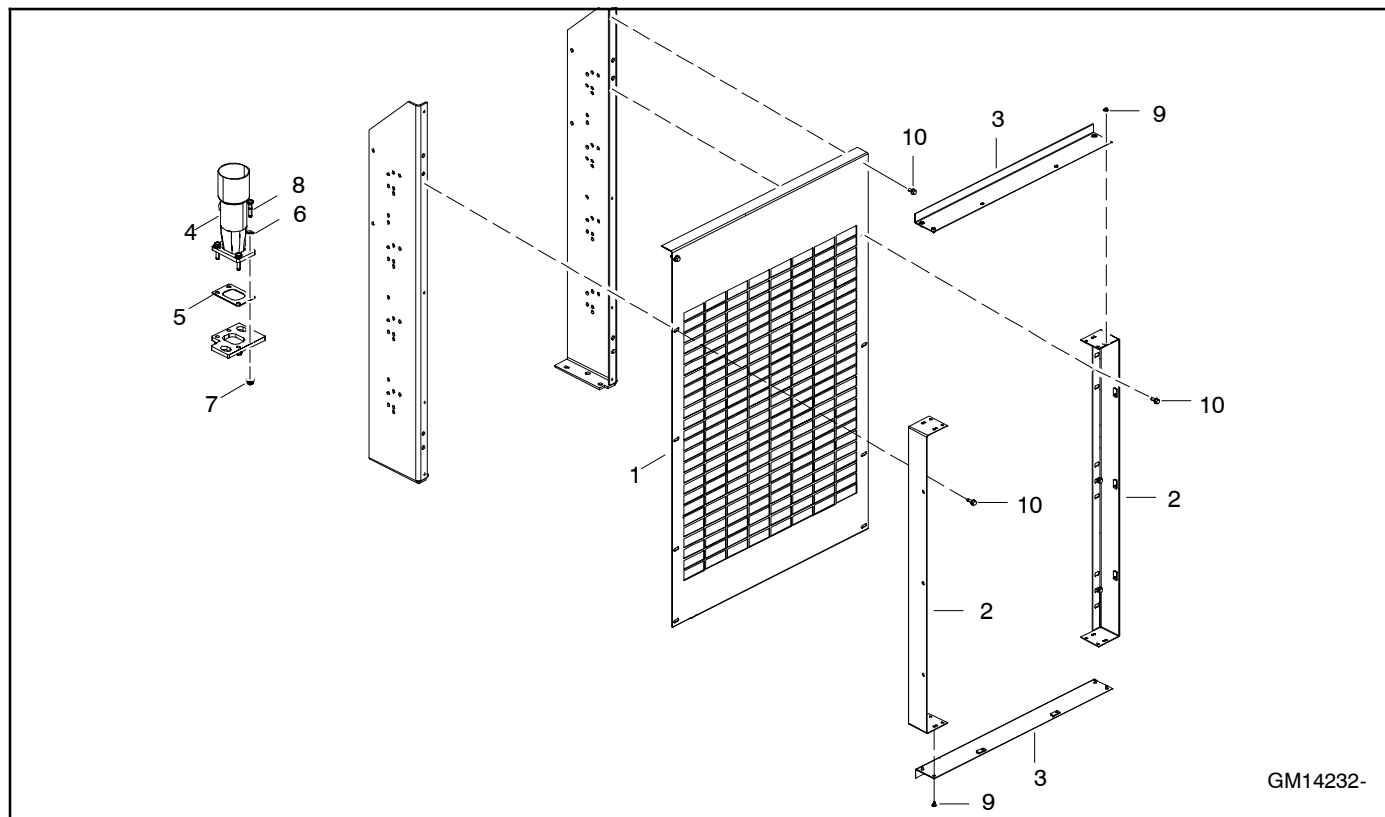
Block Heater, continued

KG150(R)- KG200, GM105409-
Qty.

Item	Part Number	Description	Qty.	
			GM105409- KA1	GM105409- KA2
1	GM105409-S1	Block Heater, 1500W, 120V (Includes parts below)	1	
1	GM105409-S2	Block Heater, 1500W, 240V (Includes parts below)		1
2	X-672-32	Clamp, insulated, 1.06 in.	1	1
3	X-6024-2	Bolt, Hex Cap	1	1
4	X-582-1	Connector, Hose 5/8 in. x 1/2 in. MIP Brass	1	1
5	X-426-12	Clamp, hose, .69/1.25 in.	4	4
6	X-391-19	Connector, 90 deg. (5/8 in. ID hose)	1	1
7	352945-S	Heater, block (120V, 1500W)	1	
7	352946-S	Heater, block (240V, 1500W)		1
8	279047	Tag, hang	1	1
9	X-672-37	Clamp	1	1
10	M6923-06-80	Nut, Hex 6 mm	2	2
11	M125A-10-80	Washer, Plain 10.5 ID x 20.0 OD	3	3
12	M125A-06-80	Washer, Plain	2	2
13	GM64285	Bracket, Block Heater Mtg.	1	1
14	GM10669	Shield, heat (32mm ID x 305 mm length)	1	1
15	X-25-26	Washer, Plain, .531 IDx1.062 in. OD	1	1
16	M933-10025-60	Screw, Hex Cap M10 X 25	3	3
17	M933-06020-60	Screw, Hex Cap M6 X 20	2	2
18	M6923-10-80	Nut, Hex 10 mm	2	2
19	X-312-50	Hose, .63 ID	1	1
20	X-312-15	Hose, .63 in. ID	1	1

Open Unit Acc. Kit

KG40-60, GM104232-KA1

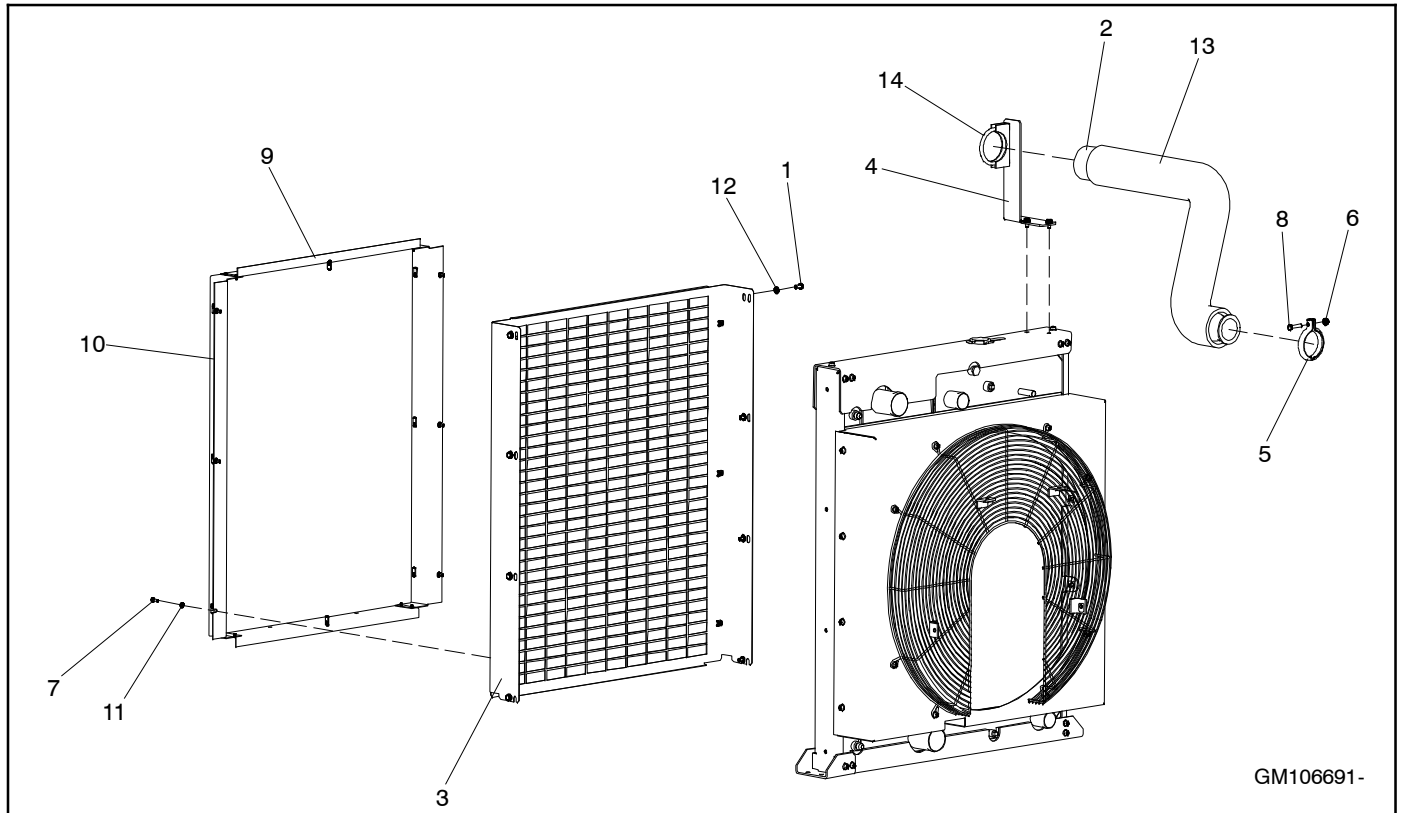


GM14232-

Item	Part Number	Description	Qty.
1	GM14100	Guard, Radiator	1
2	GM13898	Frame, Air duct	2
3	GM13897	Frame, Air duct	2
4	GM104214	Pipe, Flex exhaust	1
5	GM102843	Gasket, Exhaust	1
6	M125A-08-80	Washer, Plain 8.4 ID x 16.0 OD	4
7	M6923-08-80	Nut, Hex 8 mm	4
8	M931-08035-60	Screw, Hex cap	4
9	X-781-11	Rivet, Pop, .187 in.	8
10	X-794-1	Screw, Drill	8

Open Unit Acc. Kit, continued

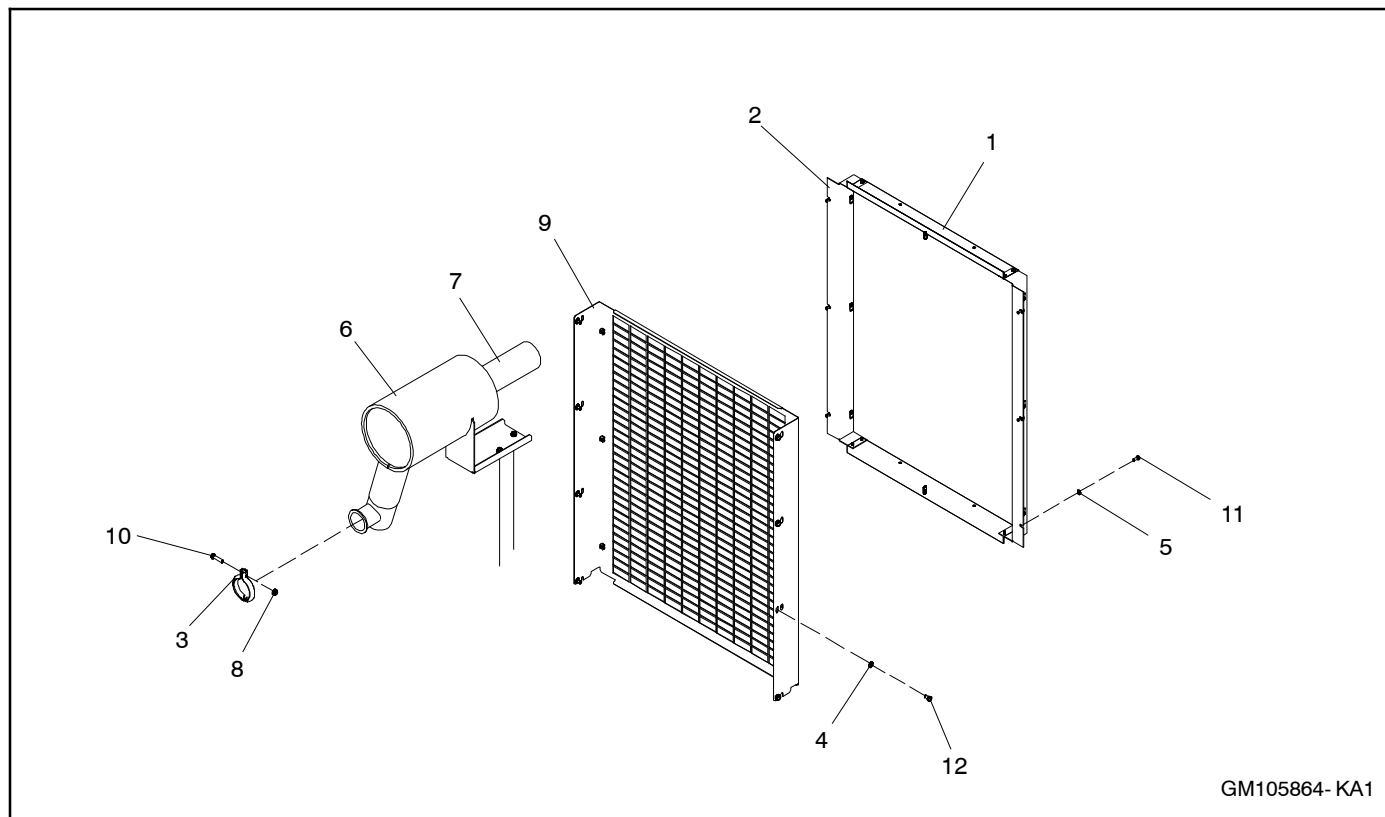
KG80- KG80R, GM106691-KA1



Item	Part Number	Description	Qty.
1	X-125-23	Bolt, Hex cap	10
2	GM104552	Exhaust, Flex	1
3	GM105861	Guard, Radiator	1
4	GM105593	Bracket, Flex support	1
5	GM22535	Clamp, Exhaust (3.34 in.)	1
6	X-6210-7	Nut, Flange spiralock, 5/16- 18	1
7	M933-06016-60	Screw, Hex cap M6x 16	6
8	336851	Screw, Hex head machine, special thread	1
9	GM32061-S	Frame, Air duct	2
10	GM105863	Frame, Air duct (Vertical)	2
11	M125A-06-80	Washer, Plain	6
12	X-25-33	Washer, Plain, .312 ID x .625 in. OD	10
13	GM105003	Wrap, Flex exhaust	1
14	286283	Clamp, Muffler, 3.12 in.	1

Open Unit Acc. Kit, continued

KG100- KG125, GM105864- KA1

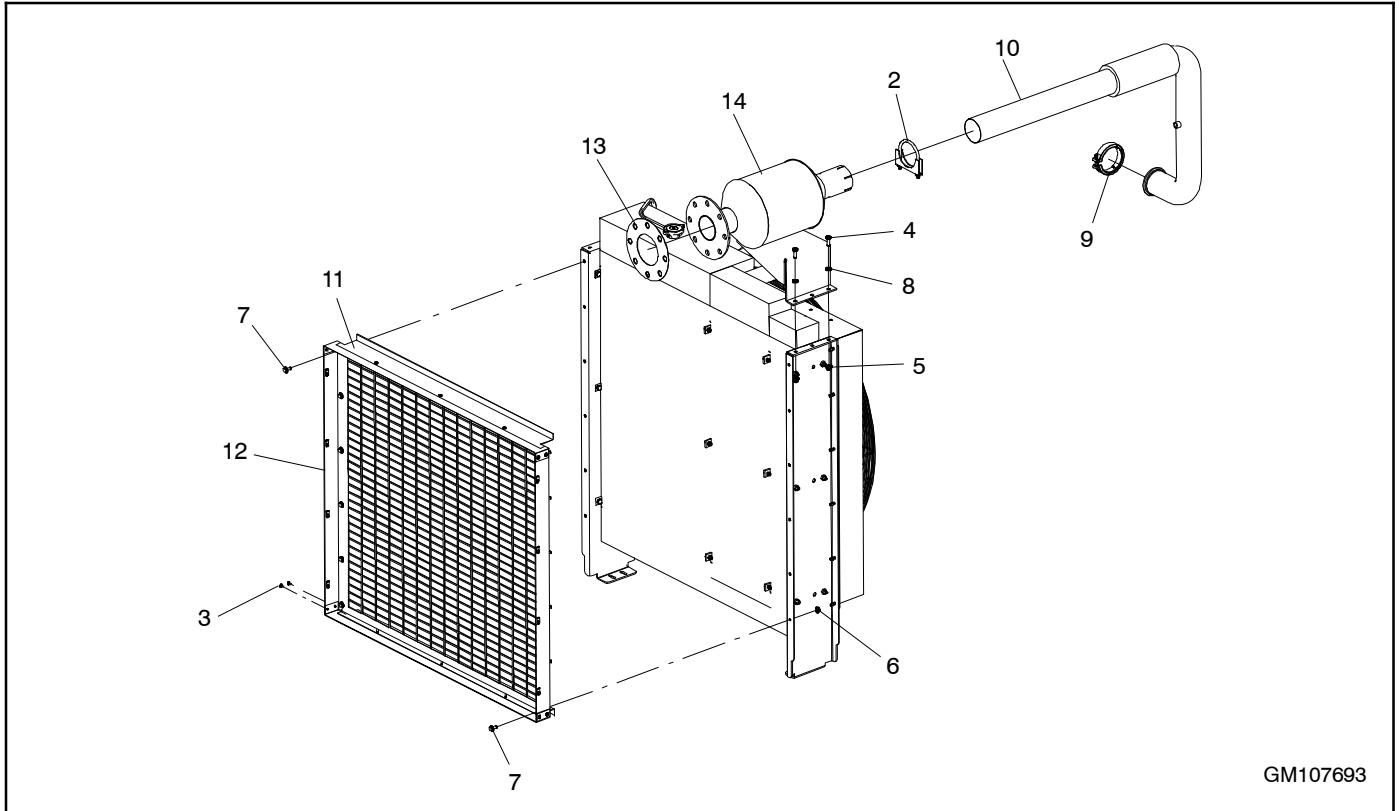


GM105864- KA1

Item	Part Number	Description	Qty.
1	GM32061- S	Frame, Air Duct	2
2	GM105863- S	Frame, Air Duct (Vertical)	2
3	GM22535	Clamp, exhaust (3.34 in.)	1
4	X- 25- 33	Washer, plain, .312 ID x .625 in. OD	10
5	M125A- 06- 80	Washer, Plain	6
6	GM105244	Wrap, Flex Exhaust Catalyst	1
7	GM104550	Catalyst, Flex Exhaust	1
8	X- 6210- 7	Nut, flange spiralock, 5/16- 18	1
9	GM105861	Guard, Radiator	1
10	336851	Screw, hex head machine, special thread	1
11	M933- 06016- 60	Screw, Hex Cap M6 x 16	6
12	X- 125- 23	Bolt, Hex Cap	10

Open Unit Acc. Kit, continued

KG150(R)- KG200, GM107693-KA1

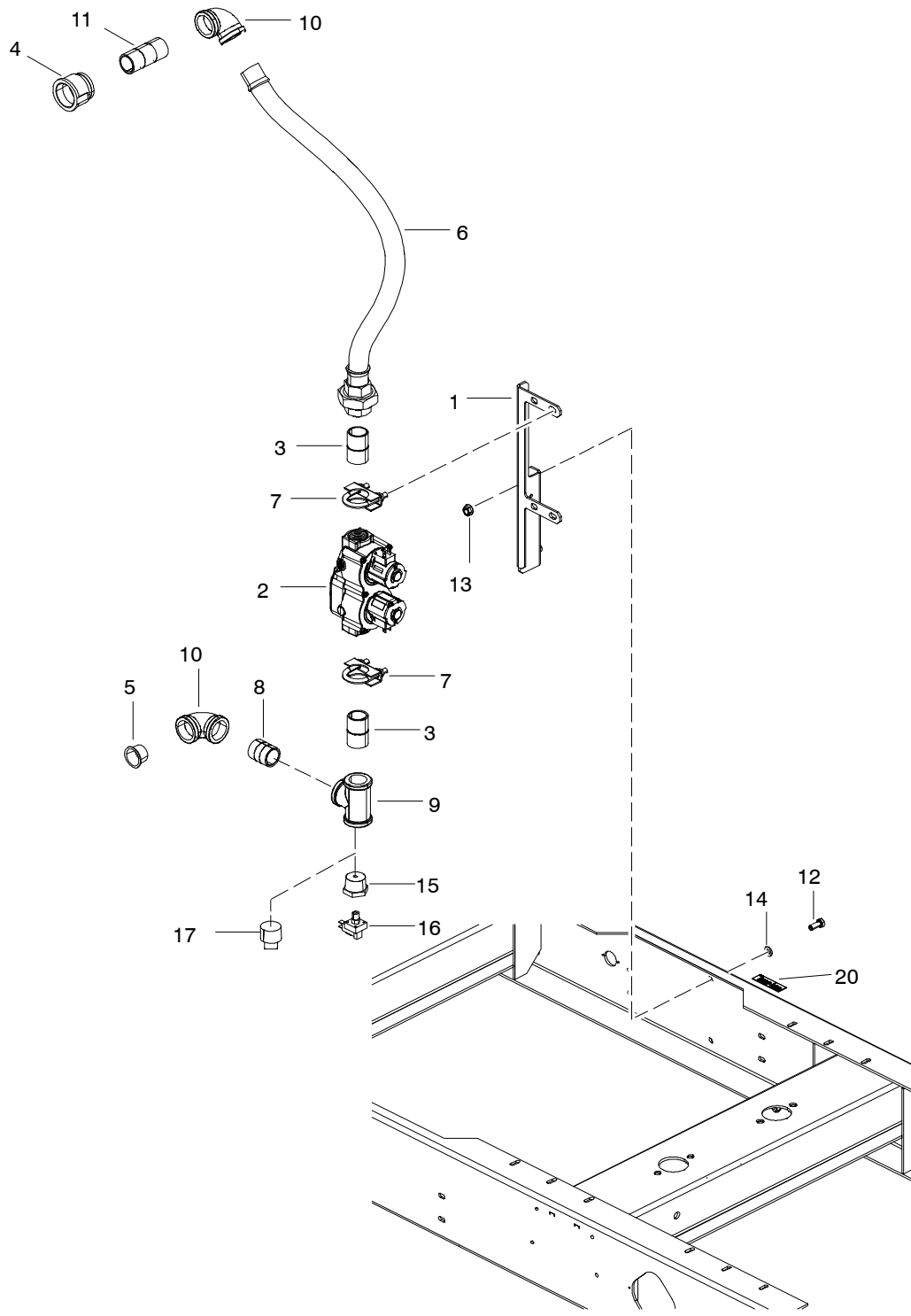


GM107693

Item	Part Number	Description	Qty.
1	GM107693- S1	Open Unit, Accessories (Includes parts below)	1
2	286286	Clamp, Muffler, 3.62 in.	1
3	X- 781- 10	Rivet, Pop, .187 in. AL/Steel	14
4	M933- 10025- 60	Screw, Hex Cap M10 X 25	2
5	M6923- 10- 80	Nut, Hex 10 mm	2
6	M6923- 08- 80	Nut, Hex 8 mm	12
7	M6921- 08020- 60	Screw, Hex Flange M8 x 20	12
8	M125A- 10- 80	Washer, Plain 10.5 ID x 20.0 OD	2
9	GM111078	Clamp, V- Band (4.25 In.)	1
10	GM109313	Tube, Exhaust Flex, ERC	1
11	GM109259	Flange, Radiator Duct, KG150- 200	2
12	GM109258	Flange, Radiator Duct, KG150- 200	1
13	GM109254	Gasket, Exhaust Silencer	1
14	GM107729	Catalyst, KG150- 200, Open Unit, ERC	1

Fuel System Kits

KG40-60, Single Fuel, GM103202-



GM103202- B

Fuel System Kits

KG40- 60, Single Fuel, GM103202-

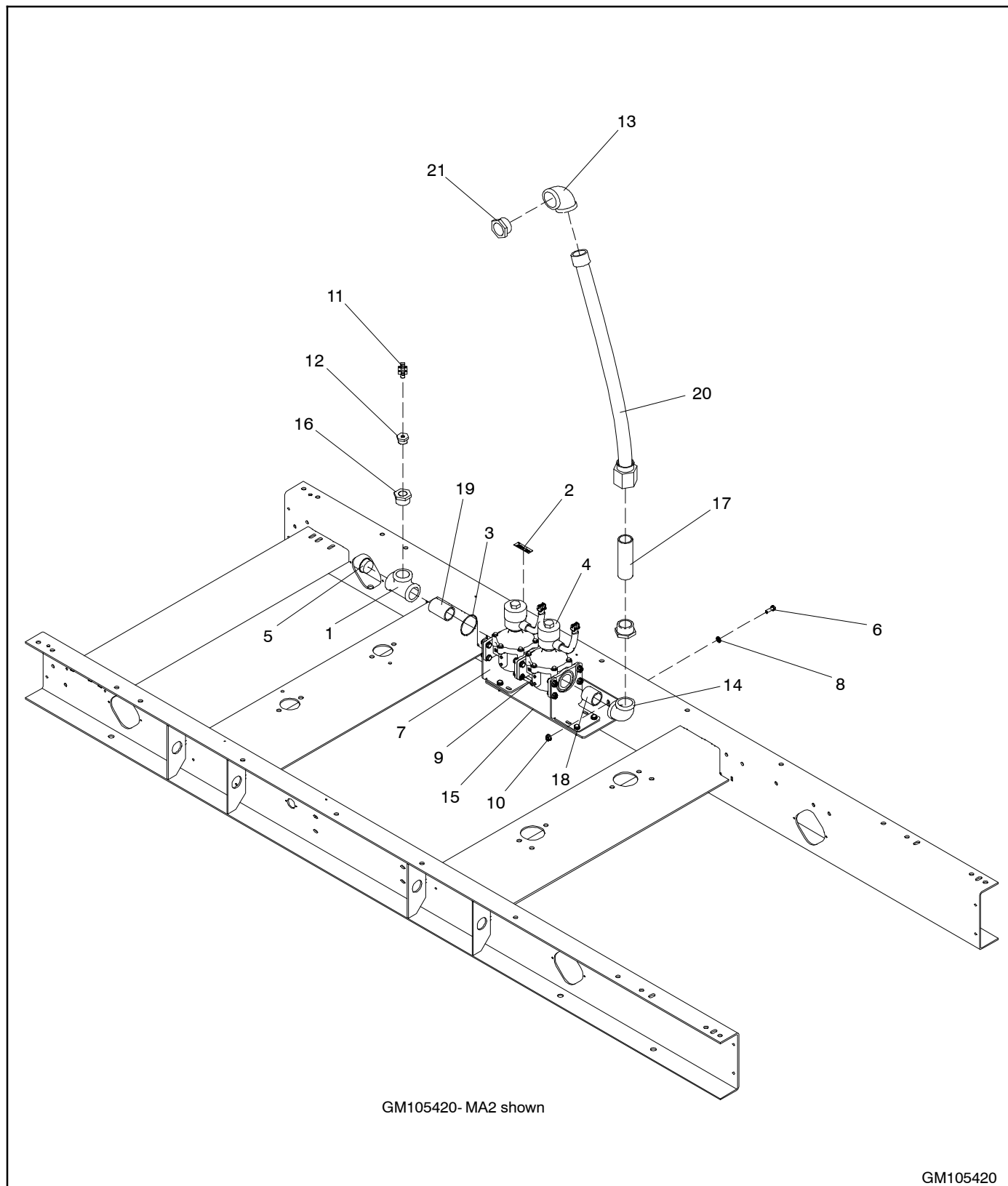
Item	Part Number	Description	Qty.
1	GM104102	Bracket, Fuel solenoid mtg.	1
2	GM96976	Valve, Dual solenoid	1
3	K-122	Pipe (1 in. NPT x 2 in.)	2
4	X-250-6	Coupling, Reducer (1- 1/4 x 1 in. NPT)	1
5	X-519-20	Plug, Cap	1
6	X-504-20	Line, Flexible fuel	1
7	X-722-8	Clamp, Muffler, 1.37 in.	2
8	X-218-24	Pipe (1 in. NPT x 1.5 in.)	1
9	X-203-2	Tee, Pipe (1 x 1 x 1 NPT)	1
10	X-215-15	Elbow, Pipe (90° x 1 in. NPT)	2
11	X-218-22	Pipe, Nipple (1 in. NPT x 3 in.)	1
12	M933-08020-60	Screw, Hex cap	2
13	M6923-08-80	Nut, Hex 8 mm	2
14	M125A-08-80	Washer, Plain 8.4 ID x 16 OD	2
15	See chart	Bushing, Reducing (1/8 x 1 in. NPT)	1
16	See chart	Switch, Pressure 4.5 in. H2O	1
17	See chart	Plug, Pipe (1 in. NPTF)	1
20	GM20577	Decal, Fuel type	1

Use this table to identify part numbers of items 15- 17.

Kit No.	Type	Item 15	Item 16	Item 17
GM103202-MA1	NG/LP	-	-	X-75-13
GM103202-MA3	NG/LP, NFPA	AC-1459	GM69219-5	-

Fuel System Kits, continued

KG80- KG80R, Single Fuel, GM105420-



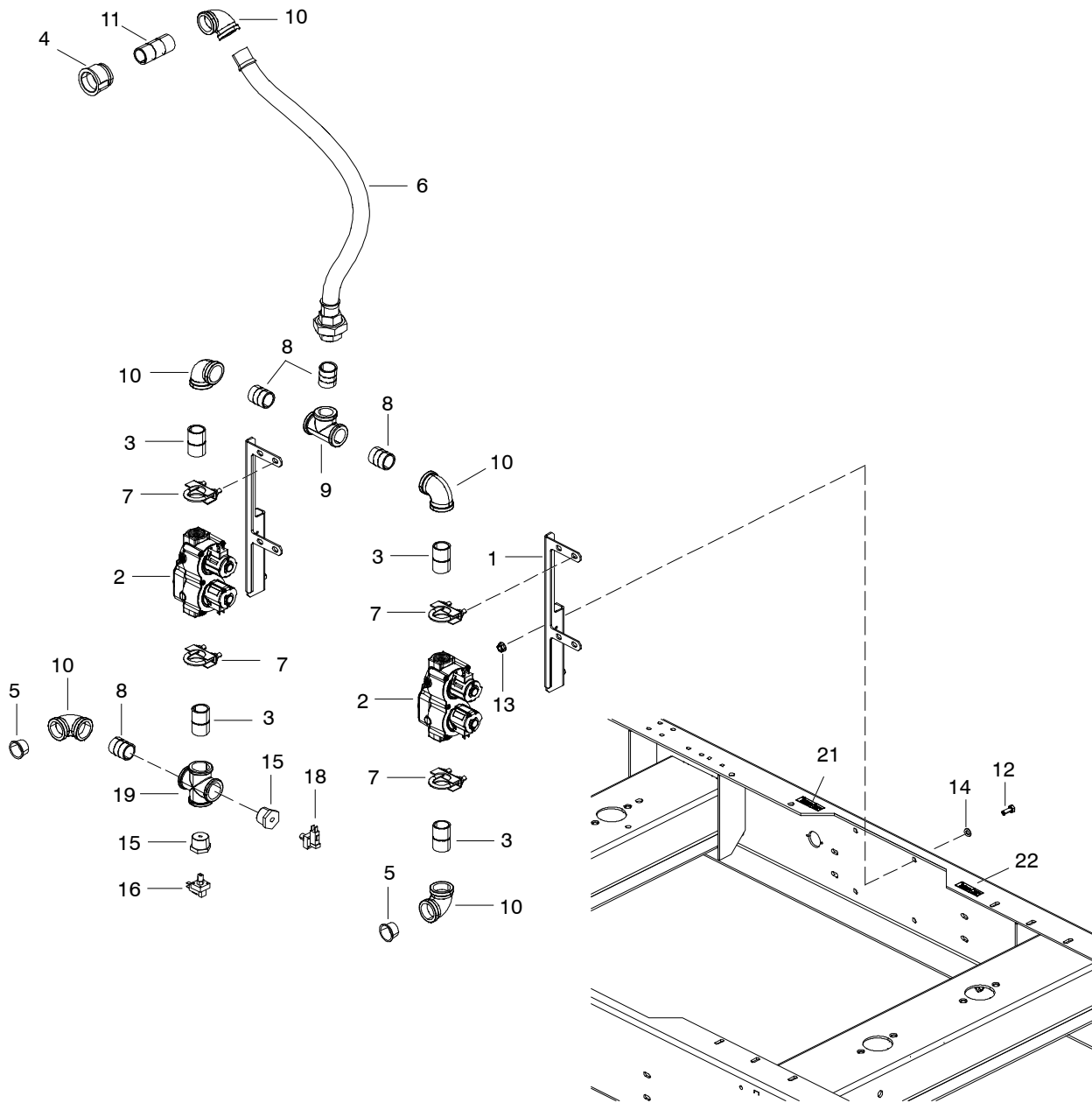
Fuel System Kits, continued

KG80- KG80R, Single Fuel

Item	Part Number	Description	Qty.	
			GM105420-MA1	GM105420-MA2
1	X-203-26	Tee, Pipe (1- 1/4 x 1- 1/4 x 1- 1/4 NPT)		1
2	GM20577	Decal, Fuel type	1	1
3	GM104891	O- ring kit		1
4	GM70497	Valve, Gas assy.	1	2
5	X-519-18	Plug, Cap	1	1
6	M933-08025-60	Screw, Hex cap M8 x 25	9	15
7	GM86089	Bracket, Support	1	2
8	M125A-08-80	Washer, Plain 8.4 ID x 16 OD	9	19
9	M933-08030-60	Screw, Hex cap, M8 x 30		4
10	M6923-08-80	Nut, Hex 8 mm	9	19
11	GM70538	Switch, Pressure 7.0 in. H2O		1
12	X-202-56	Bushing, Reducing (1/8 x 3/4 in. NPT)		1
13	151771	Elbow, Pipe (90 deg x 1- 1/2 in. NPT)	1	1
14	X-215-14	Elbow, Pipe (90 deg x 1- 1/4 in. NPT)	2	1
15	GM104543	Bracket, Support	1	1
16	X-202-18	Bushing, Reducing (3/4 x 1- 1/4 in. NPT)		1
17	X-210-27	Pipe, Nipple (1- 1/4 in. NPT x 5 in.)	1	1
18	X-210-8	Pipe, Nipple (1- 1/4 in. NPT x 1.63 in.)		1
19	X-210-28	Pipe, Nipple (1- 1/4 in. NPT x 2.5 in.)	2	1
20	X-504-22	Fuel line, Flexible (1.5 in. ID x 28.25 in.)	1	1
21	153016	Bushing, Reducing (1- 1/4 x 1- 1/2 in. NPT)	2	2

Fuel System Kits, continued

KG40-60, Dual Fuel, GM103202-



GM103202- MA4 shown

GM103202- B

Fuel System Kits, continued

KG40-60, Dual Fuel, GM103202-

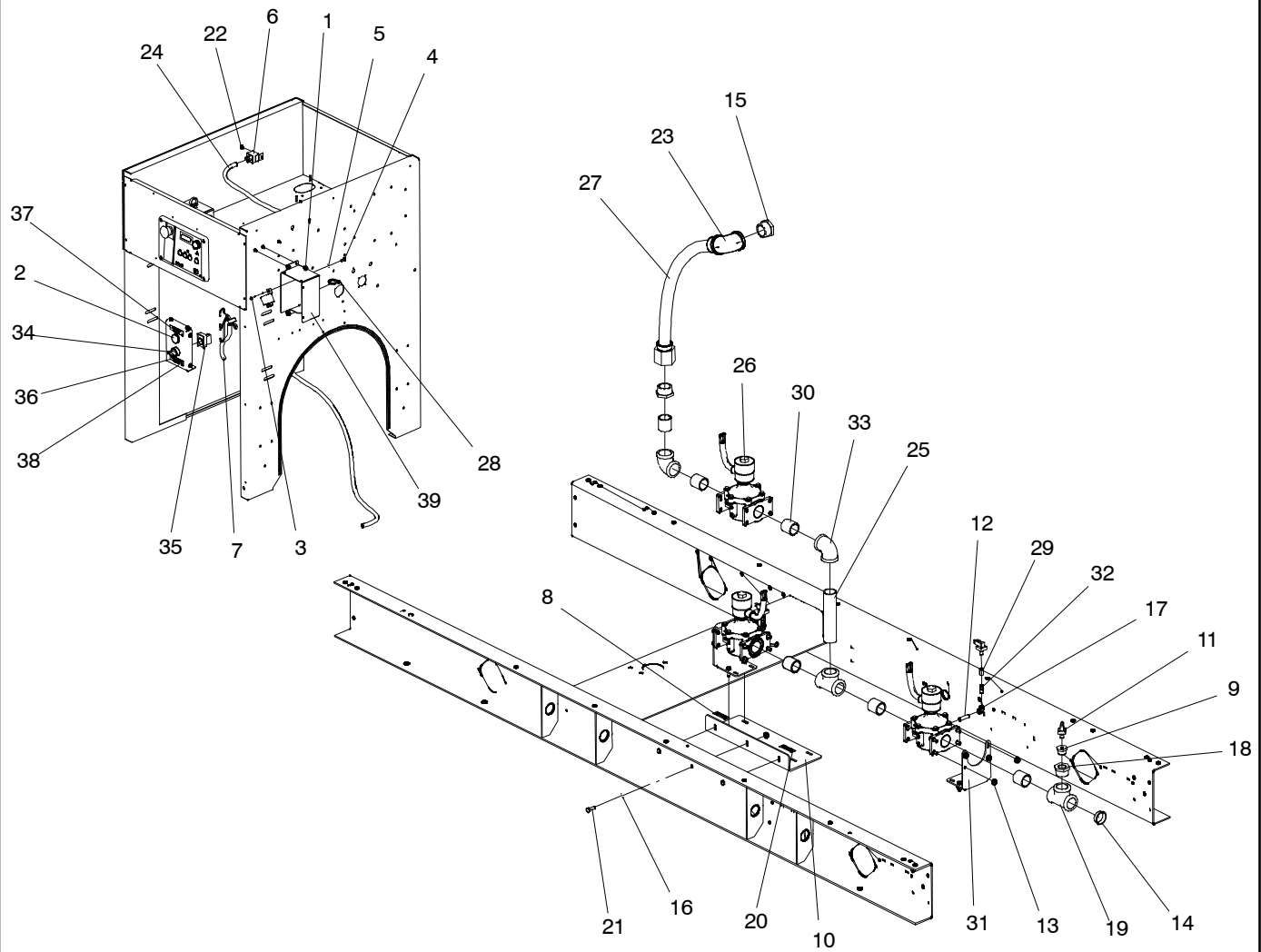
Item	Part Number	Description	Qty.
1	GM104102	Bracket, Fuel solenoid mtg.	2
2	GM96976	Valve, Dual solenoid	2
3	K-122	Pipe (1 in. NPT x 2 in.)	4
4	X-250-6	Coupling, Reducer (1-1/4 x 1 in. NPT)	1
5	X-519-20	Plug, Cap	2
6	X-504-20	Line, Flexible fuel	1
7	X-722-8	Clamp, Muffler, 1.37 in.	4
8	X-218-24	Pipe (1 in. NPT x 1.5 in.)	4
9	See chart	Tee, Pipe (1 x 1 x 1 NPT)	-
10	X-215-15	Elbow, Pipe (90° x 1 in. NPT)	5
11	X-218-22	Pipe, Nipple (1 in. NPT x 3 in.)	1
12	M933-08020-60	Screw, Hex cap	4
13	M6923-08-80	Nut, Hex 8 mm	4
14	M125A-08-80	Washer, Plain 8.4 ID x 16 OD	4
15	See chart	Bushing, Reducing (1/8 x 1 in. NPT)	-
16	See chart	Switch, Pressure 4.5 in. H2O	-
18	See chart	Switch, Pressure 6.27 in. H2O	1
19	See chart	Cross, Pipe (1 in. NPT)	1
21	GM20173	Decal, Fuel type	1
22	GM20174	Decal, Fuel type	1

Use this table to identify part numbers of items 9- 17.

Kit No.	Type	Item 9	Item 15	Item 16	Item 18	Item 19
GM103202-MA2	NG/LP, Auto- Changeover	X-203-2 (2)	AC-1459 (1)	GM70537 (1)	-	-
GM103202-MA4	NG/LP, NFPA	X-203-2 (1)	AC-1459 (2)	GM70537 (1)	GM70538	X-207-1

Fuel System Kits, continued

KG80- KG80R, Dual Fuel, GM105420-



GM105420- MA5 shown

Item not shown: 40

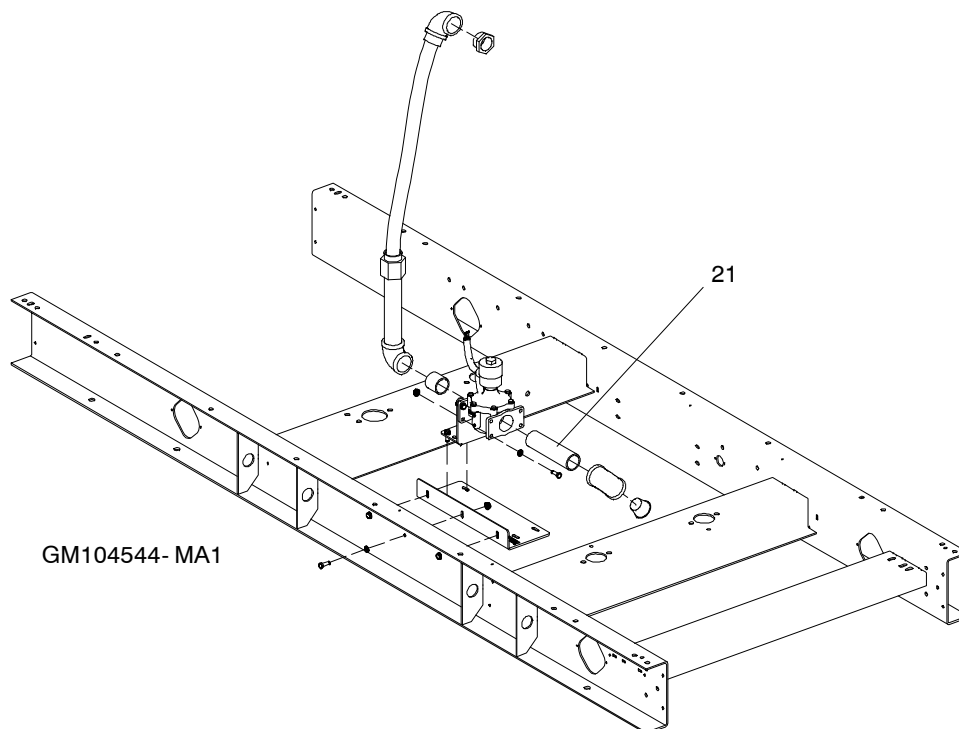
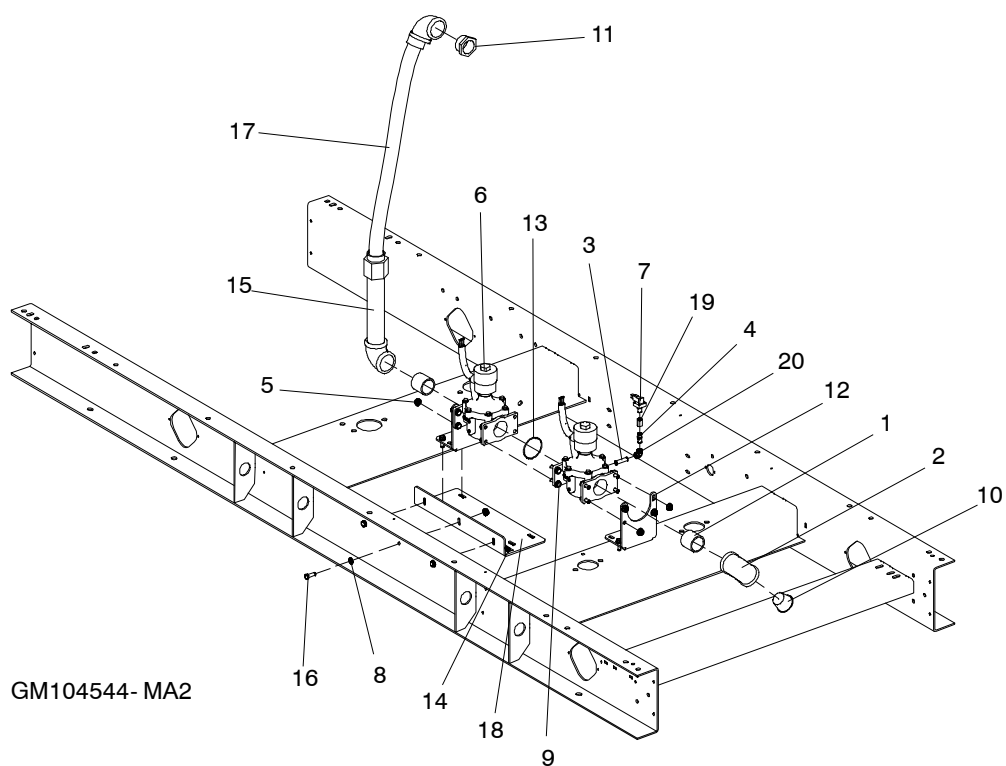
GM105420

Fuel System Kits, continued

KG80- KG80R, Dual Fuel, GM105420-				
Item	Part Number	Description	Qty. GM105420-	
			- MA3	- MA5
1	X-6216-1	Screw, Phillips hex crimpite		8
2	X-6127-70	Light, Pilot (without bulb- shite)		1
3	M934-05-50	Nut, Hex 5 mm		1
4	M7985A-05012-20	Screw, pan head mach.		1
5	M125A-05-80	Washer, Plain		1
6	GM49746	Relay, 12 VDC		2
7	GM107810	Harness, Dual Fuel KG80,100,125		1
8	GM20174	Decal, Fuel Type	1	1
9	X-202-56	Bushing, reducing (1/8 x 3/4 in. npt)	1	1
10	GM104543	Bracket, Support	1	1
11	GM70538	Switch, Pressure 7 in. H ₂ O	2	
11	GM70537	Switch, Pressure 4.5 in. H ₂ O		3
12	X-217-2	Pipe, Nipple (1/8 in. NPT x 1.50 in.)	1	2
13	M6923-08-80	Nut, Hex 8 mm	15	15
14	X-519-18	Plug, cap	2	2
15	153016	Bushing, reducing (1- 1/4 x 1- 1/2 in. npt)	2	2
16	M125A-08-80	Washer, Plain 8.4 ID x 16.0 OD	15	15
17	X-215-19	Elbow, pipe (90 deg x 1/8 in. npt)	1	2
18	X-202-18	Bushing, reducing (3/4 x 1- 1/4 in. npt)	1	1
19	X-203-26	Tee, pipe (1- 1/4 x 1- 1/4 x 1- 1/4 npt)	2	2
20	GM20173	Decal, Fuel Type	1	1
21	M933-08025-60	Screw, Hex Cap M8 X 25	15	15
22	X-67-155	Screw, Tapping		1
23	151771	Elbow, pipe (90 deg x 1- 1/2 in. npt)	1	1
24	GM111289	Harness, APM603, Dual Fuel 80- 200KW		1
25	X-210-18	Pipe (1- 1/4 in. npt x 7.00 in.)	1	1
26	GM70497	Valve, Gas Assy	2	3
26	GM104899	Valve, Gas assy 1- 1/4 NPT	1	
27	X-504-22	Fuel line, flexible (1.50 in.id x 28.25 in.)	1	1
28	X-468-1	Cable Tie		6
29	X-216-24	Coupling, pipe (1/8 in. npt)	1	2
30	X-210-8	Pipe (1- 1/4 in. npt x 1.63 in.)	7	7
31	GM86089	Bracket, Support	2	2
32	GM77915	Fitting, Restriction	1	2
33	X-215-14	Elbow, pipe (90 deg x 1- 1/4 in. npt)	3	3
34	GM49762	Switch, Selector 2- Position		1
35	GM13509	Contact Block Assy One Normally Closed		1
36	GM107844	Decal, Dual Fuel Switch		1
37	GM107843	Decal, Dual Fuel Light		1
38	GM107818	Box, Dual Fuel Reset, Top		1
39	GM107817	Box, Dual Fuel Reset, Bottom		1
40	X-6127-74	Bulb, 12V.DL1- CEO12		1

Fuel System Kits, continued

KG100(R)-KG125(R), Single Fuel, GM104544-



GM104544-

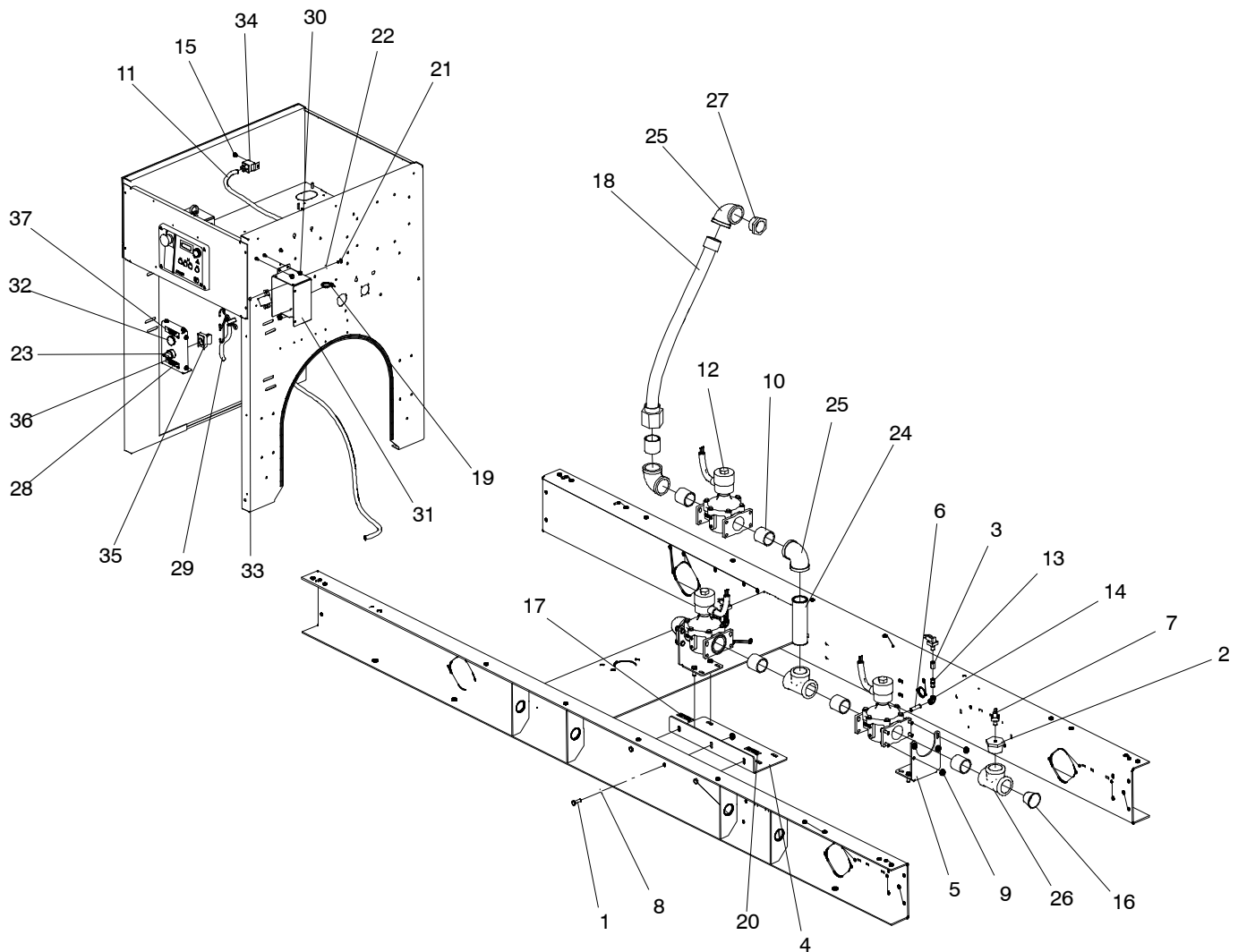
Fuel System Kits, continued

KG100(R)- KG125(R), Single Fuel, GM104544-
Qty.

Item	Part Number	Description	GM104544-MA1	GM104544-MA2	GM104544-MA4
1	155040	Pipe (1- 1/2 in. NPT x 1.75 in.)	1	2	2
2	151771	Elbow, pipe (90 deg x 1- 1/2 in. NPT)	3	3	3
3	X- 217- 2	Pipe, Nipple (1/8 in. NPT x 1.50 in.)		1	
4	GM77915	Fitting, Restriction		1	
5	M6923- 08- 80	Nut, Hex 8 mm	9	19	19
6	GM70498	Valve, Gas Assy	1	2	2
7	GM70537	Switch, Pressure 4.5 in. H2O		1	
8	M125A- 08- 80	Washer, Plain 8.4 ID x 16.0 OD	9	19	19
9	M933- 08030- 60	Screw, Hex Cap M8 x 30		4	4
10	X- 519- 21	Plug, Cap	1	1	1
11	153016	Bushing, reducing (1- 1/4 x 1- 1/2 in. NPT)	1	1	1
12	GM86089	Bracket, Support	1	2	2
13	GM104891	O- Ring Kit		1	1
14	GM20577	Decal, Fuel Type	1	1	1
15	X- 205- 22	Pipe (1- 1/2 in. NPT x 9.25 in.)	1	1	1
16	M933- 08025- 60	Screw, Hex Cap M8 x 25	9	15	15
17	X- 504- 22	Fuel line, flexible (1.50 in. ID x 28.25 in.)	1	1	1
18	GM104543	Bracket, Support	1	1	1
19	X- 216- 24	Coupling, pipe (1/8 in. NPT)		1	
20	X- 215- 19	Elbow, pipe (90 deg x 1/8 in. NPT)		1	
21	X- 205- 15	Elbow, pipe (1- 1/2 in. NPT x 7 in.)	1		

Fuel System Kits, continued

KG100(R)- KG125(R), Dual Fuel, GM104544-



Item not shown: 38

GM104544- MA5 shown

GM104544-

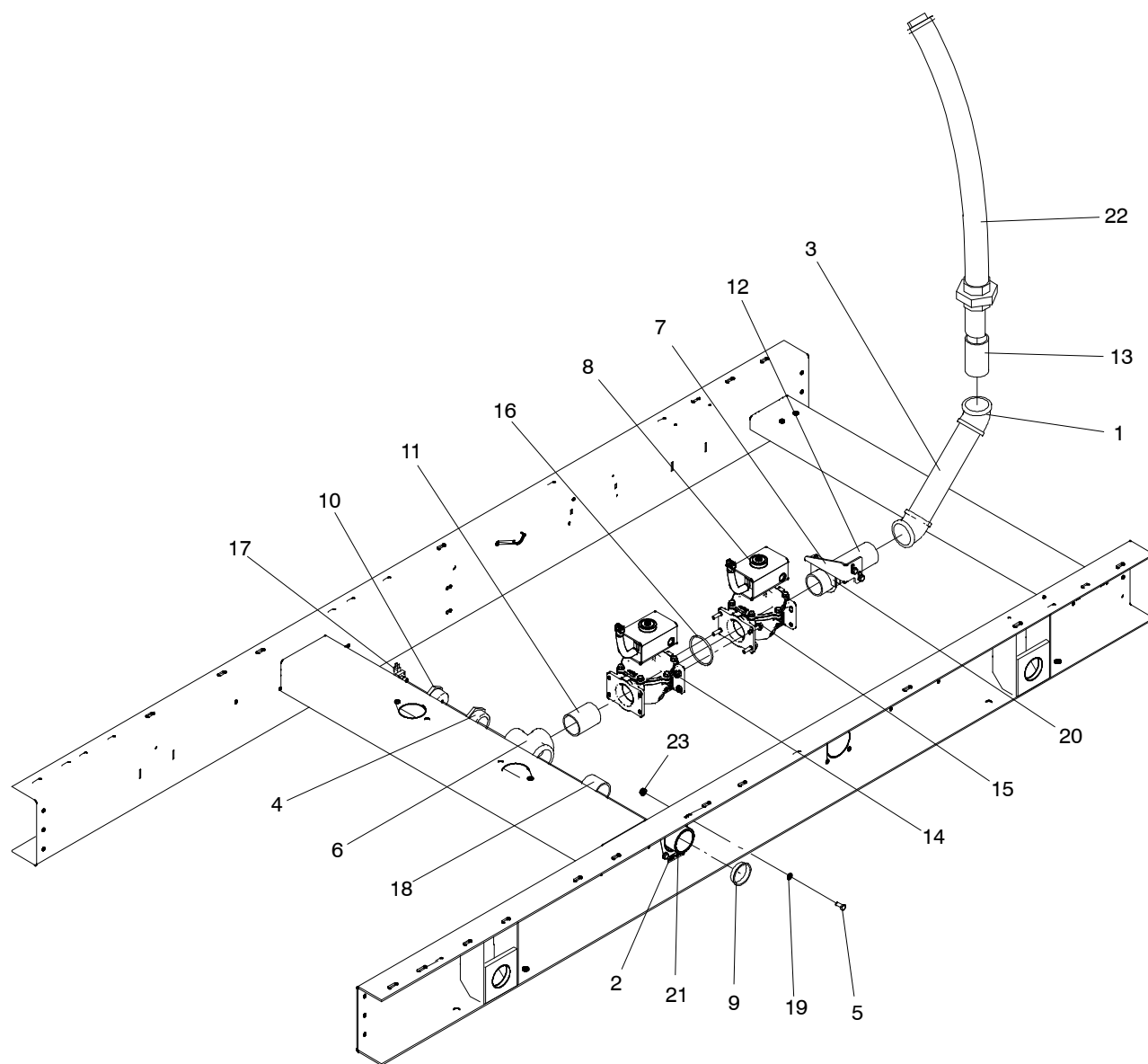
Fuel System Kits, continued

KG100(R)- KG125(R), Dual Fuel, GM104544-

Item	Part Number	Description	Qty.	
			GM104544- - MA3	- MA5
1	M933-08025-60	Screw, Hex Cap M8 X 25	15	15
2	X-202-59	Bushing, reducing (1- 1/2 in. npt to 1/8 in. npt)	1	1
3	X-216-24	Coupling, pipe (1/8 in. npt)	2	2
4	GM104543	Bracket, Support	1	1
5	GM86089	Bracket, Support	2	2
6	X-217-2	Pipe, Nipple (1/8 in. NPT x 1.50 in.)	2	2
7	GM70537	Switch, Pressure 4.5 in. H ₂ O	3	3
8	M125A-08-80	Washer, Plain 8.4 ID x 16.0 OD	15	15
9	M6923-08-80	Nut, Hex 8 mm	15	15
10	155040	Pipe (1- 1/2 in. npt x 1.75 in.)	7	7
11	GM111289	Harness, APM603, Dual Fuel 80- 200KW		1
12	GM70498	Valve, Gas Assy	3	3
13	GM77915	Fitting, Restriction	2	2
14	X-215-19	Elbow, pipe (90 deg x 1/8 in. npt)	2	2
15	X-67-155	Screw, Tapping		1
16	X-519-21	Plug, Cap	2	2
17	GM20174	Decal, Fuel Type	1	1
18	X-504-22	Fuel line, flexible (1.50 in. ID x 28.25 in.)	1	1
19	X-468-1	Cable Tie	1	6
20	GM20173	Decal, Fuel Type	1	1
21	M7985A-05012-20	Screw, pan head mach.	1	1
22	M125A-05-80	Washer, Plain	1	1
23	GM49762	Switch, Selector 2- Position	1	1
24	155029-1	Pipe (1- 1/2 in. npt x 6.00 in.)	1	1
25	151771	Elbow, pipe (90 deg x 1- 1/2 in. npt)	4	4
26	155039	Tee, pipe (1- 1/2 x 1- 1/2 x 1- 1/2 npt)	2	2
27	153016	Bushing, reducing (1- 1/4 x 1- 1/2 in. npt)	1	1
28	GM107818	Box, Dual Fuel Reset, Top	1	1
29	GM107810	Harness, Dual Fuel KG80,100,125	1	1
30	X-6216-1	Screw, Phillips hex crimpite	8	8
31	GM107817	Box, Dual Fuel Reset, Bottom	1	1
32	X-6127-70	Light, Pilot (without bulb- shite)	1	1
33	M934-05-50	Nut, Hex 5 mm	1	1
34	GM49746	Relay, 12 VDC	1	2
35	GM13509	Contact Block Assy One Normally Closed	1	1
36	GM107844	Decal, Dual Fuel Switch	1	1
37	GM107843	Decal, Dual Fuel Light	1	1
38	X-6127-74	Bulb, 12V.DL1- CEO12	1	1

Fuel System Kits, continued

KG150(R)-KG200, Single Fuel, GM107033-



GM107033- MA6 shown

GM107033-

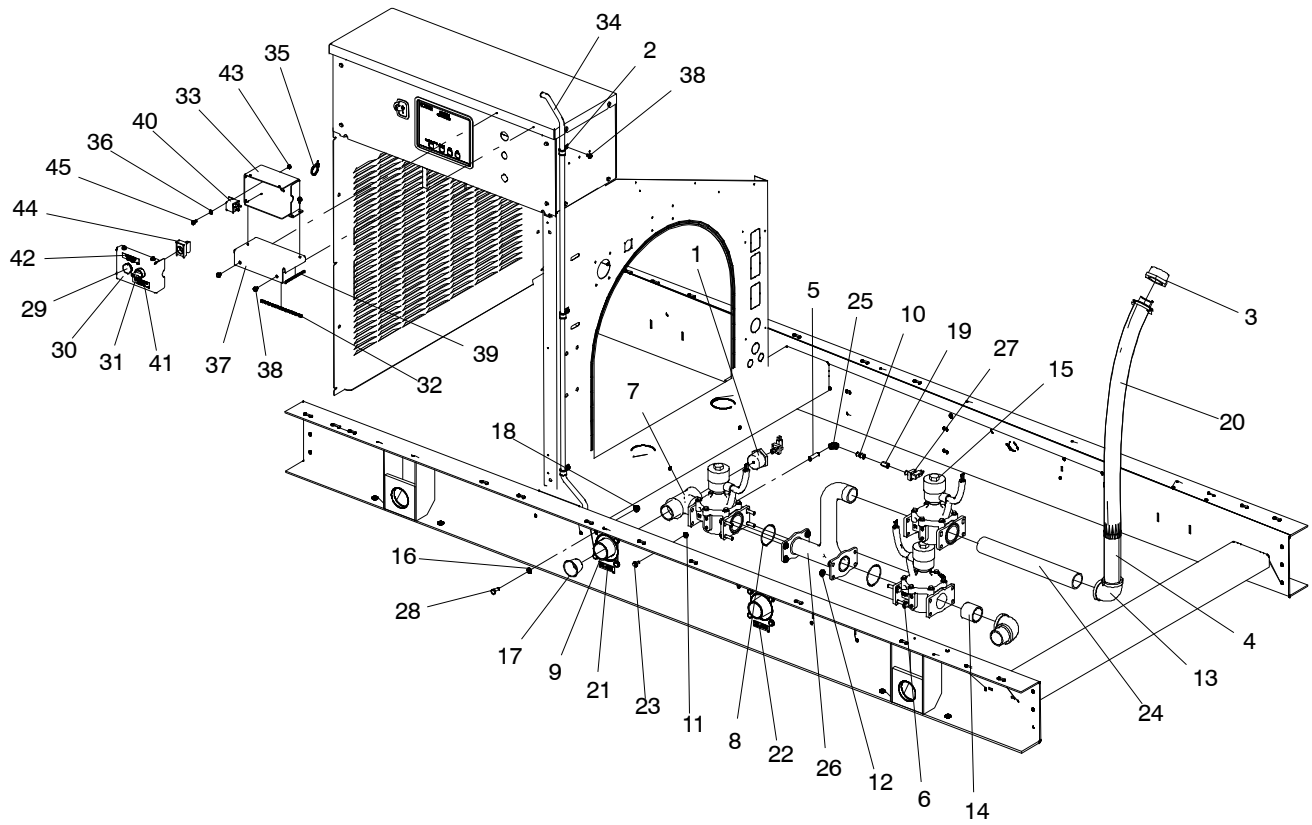
Fuel System Kits, continued

KG150(R)- KG200, Single Fuel, GM107033-
Qty.

Item	Part Number	Description	GM107033					
			-MA1	-MA2	-MA3	-MA4	-MA5	-MA6
1	X-225-3	Elbow, pipe (45 deg x 1- 1/2 in. npt)	2					
1	X-225-4	Elbow, Pipe		2		2		2
2	GM20577	Decal, Fuel Type	1	1	1	1	1	1
3	X-205-33	Pipe (1- 1/2 in. NPT X 12 in.)	2					
3	X-396-23	Pipe (2 in. npt x 11.50 in.)		2		2		1
3	GM114575	Tube, Gas Valves, Outlet, 1 1/2 in.			1		1	
4	160212	Bushing, Reducing (1- 1/2 x 2 in. npt)	1		1		1	1
5	M933-08020-60	Screw, Hex Cap M8 X 20	6	6	6	6	6	6
6	151771	Elbow, pipe (90 deg x 1- 1/2 in. npt)	1		1			
6	X-215-6	Elbow, pipe (90 deg x 2 in. npt)		1		1		
6	155039	Tee, pipe (1- 1/2 x 1- 1/2 x 1- 1/2 npt)					1	
6	X-203-28	Tee, pipe (2 x 2 x 2 npt)						1
7	GM107045	Bracket, Fuel Line Mounting	1	1	1	1	1	1
8	GM70498	Valve, Gas Assy	1		2		2	
8	GM107178	Valve, Gas Assy 2 NPT		1		2		2
9	X-519-21	Plug, Cap	1		1		1	
9	X-519-16	Plug, Cap		1		1		1
10	X-202-59	Bushing, reducing (1- 1/2 in. to 1/8 in. npt)					1	1
11	155029-1	Pipe (1- 1/2 in. npt x 6.00 in.)	1					
11	155040	Pipe (1- 1/2 in. npt x 1.75 in.)			2		2	
11	X-396-19	Pipe (2 in. npt x 3.00 in.)				1		1
12	X-396-24	Pipe (2 in. npt x 8.00 in.)				1		1
13	X-205-15	Pipe (1- 1/2 in. npt x 7.00 in.)	1					
13	X-219-6	Pipe (2 in. npt x 4.00 in.)		2		1		1
14	M6923-08-SS	Nut, Hex 8 mm			8	4	8	4
15	M6921-08035-SS	Screw, Hex Flange M8			8	4	8	4
16	GM104891	O- Ring Kit			2		2	
16	GM105968	O- Ring				1		1
17	GM70537	Switch, Pressure 4.5 in. H ₂ O					1	1
18	155040	Pipe (1- 1/2 in. npt x 1.75 in.)	1					
18	X-219-9	Pipe, Nipple (2 in. npt x 2.00 in.)		1		1		1
19	M125A-08-80	Washer, Plain 8.4 ID x 16.0 OD	6	6	6	6	6	6
20	X-722-5	Clamp, muffler, 2.12 in.	1		1		1	
20	288827	Clamp, muffler, 2.37 in.		1		1		1
21	GM107046	Connection, Fuel Inlet, 1 1/2 in. NPT	1		1		1	
21	GM107035	Connection, Fuel Inlet, 2 in. NPT		1		1		1
22	X-504-22	Fuel line, flexible (1.50 in. ID x 28.25 in.)	1		1		1	
22	X-504-27	Fuel line, flexible (2.00 in. ID x 32.5 in.)		1		1		1
23	M6923-08-80	Nut, Hex 8 mm	6	6	6	6	6	6

Fuel System Kits, continued

KG150- KG200, Dual Fuel, GM107033-



Item not shown: 46

GM107033-

Fuel System Kits, continued

KG150- KG200, Dual Fuel, GM107033-

Item	Part Number	Description	Qty.
1	X-202-59	Bushing, reducing (1- 1/2 in. npt to 1/8 in. npt)	1
2	X-672-24	Clamp, insulated, .62 in.	5
3	160212	Bushing, reducing (1- 1/2 x 2 in. npt)	1
4	See chart	Pipe (1- 1/2 in. npt x 7.00 in.)	1
5	X-217-2	Pipe, Nipple (1/8 in. NPT x 1.50 in.)	2
6	M6921-08035-SS	Screw, Hex Flange M8	8
7	See chart	Tee, pipe (1- 1/2 x 1- 1/2 x 1- 1/2 npt)	1
8	See chart	O- Ring Kit	2
9	See chart	Connection, Fuel Inlet, 1 1/2 in. NPT	2
10	GM77915	Fitting, Restriction	2
11	M6923-06-80	Nut, Hex 6 mm	2
12	M6923-08-SS	Nut, Hex 8 mm	8
13	See chart	Elbow, pipe (90 deg x 1- 1/2 in. npt)	2
14	See chart	Pipe (1- 1/2 in. npt x 1.75 in.)	4
15	See chart	Valve, Gas Assy	3
16	M125A-08-80	Washer, Plain 8.4 ID x 16.0 OD	8
17	See chart	Plug, Cap	2
18	M6923-08-80	Nut, Hex 8 mm	8
19	X-216-24	Coupling, pipe (1/8 in. npt)	2
20	See chart	Fuel line, flexible (1.50 in. ID x 28.25 in.)	1
21	GM20173	Decal, Fuel Type	1
22	GM20174	Decal, Fuel Type	1
23	M6921-06016-60	Screw, Hex Flange M6x16 mm fly thrd js500	2
24	See chart	Pipe (1- 1/2 in. npt x 14.25 in.)	1
25	X-215-19	Elbow, pipe (90 deg x 1/8 in. npt)	2
26	See chart	Manifold, Gas Valves, 1 1/2 in.	1
27	GM70537	Switch, Pressure 4.5 in. H2O	3
28	M933-08020-60	Screw, Hex Cap M8 X 20	8
29	X-6127-70	Light, Pilot (without bulb- shite)	1
30	GM107818	Box, Dual Fuel Reset, Top	1
31	GM49762	Switch, Selector 2- Position	1
32	X-6033-4	Grommet, u- channel	1
33	GM107817	Box, Dual Fuel Reset, Bottom	1
34	GM108010	Harness, Dual Fuel KG150- 200	1
35	X-468-1	Cable Tie	1
36	M125A-05-80	Washer, Plain	1
37	GM107934	Bracket, Fuel Switch Mounting	1
38	X-6216-1	Screw, Phillips hex crimpitite	11
39	X-6033-3	Grommet, u- channel	2
40	GM49746	Relay, 12 VDC	1
41	GM107844	Decal, Dual Fuel Switch	1
42	GM107843	Decal, Dual Fuel Light	1
43	M934-05-50	Nut, Hex 5 mm	1
44	GM13509	Contact Block Assy, One Normally Closed	1
45	M7985A-05012-20	Screw, pan head mach.	1
46	X-6127-74	Bulb, 12V.DL1- CEO12	1

Use this table to identify part numbers of items 4- 26.

Kit No.	Models	Item 4	Item 7	Item 8	Item 9	Item 13
GM107033-MA7	KG150	X-205-15	155039	GM104891	GM107046	151771
GM107033-MA8	KG180- KG200	X-219-6	X-203-28	GM105968	GM107035	X-215-6

Kit No.	Models	Item 14	Item 15	Item 17	Item 20	Item 24	Item 26
GM107033-MA7	KG150	155040	GM70498	X-519-21	X-504-22	X-205-25	GM107051
GM107033-MA8	KG180- KG200	X-219-9	GM107178	X-519-16	X-504-27	X-396-26	GM107040

Miscellaneous Kits

Qty.	Description	Part No.
Critical, 3 in. NPT,SIEO		
1	Silencer, critical SIEO	PA-352663 352647
Critical, 4 in. NPT,SIEO		
1	Silencer, critical SIEO	PA-324470 273720
Flexible Exhaust, 3 in. NPT		
1	Adapter, flexible exhaust	GM13956-KP1 276249
1	Clamp, muffler, 3.12 in.	286283
Flexible Exhaust, 4 in. NPT		
1	Exhaust, flex	GM106723-KP1 GM106709
1	Clamp, muffler, 3.62 in.	286286
Electrical Accessories Loose		
Temperature Compensation for 10A Battery Charger		
GM102253-KP1		
1	Battery Charger Temp. Compensation Sensor	GM102246
Battery Charger, 12V- 6A		
1	Battery Charger, 12V, 6A	GM96391-KP1 GM96383
Battery Charger, 12V- 10A		
1	Battery Charger, 12V, 10A	GM94447-KA1 GM87448
Battery Heater, 120V, 80W		
1	Heater, Battery wrap	GM104703-KP1 GM104699
2	Cable tie	X-468-1
Battery		
1	Battery, opt duty 650CCA, grp24 12Vwet	256985 GM106373
Gen. Heater, 120/240V, 200W		
2	Heater, Strip 120V, 100W	GM79104-KA1 GM79574
Remote Emergency Stop Switch		
PA-293906		
Lockable Emergency Stop		
1	E-stop, NEC remote	GM103279- KP1 GM103743
Flexible Fuel Lines		
1	Pipe	GM13706-KP1 X-218-24
1	Fuel lines, flexible	X-504-21
Flexible Fuel Lines		
1	Pipe	GM13706-KP2 155040
1	Fuel lines, flexible	X-504-22
Flexible Fuel Lines		
2	Pipe	GM14272-KP1 X-218-24
2	Fuel lines, flexible	X-504-21
Gaseous Fuel Filter		
1	Gas filter assembly	PA-343303 343302

Appendix A Abbreviations

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

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

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

Appendix B Common Hardware Application Guidelines

Use the information below and on the following pages to identify proper fastening techniques when no specific reference for reassembly is made.

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

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

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

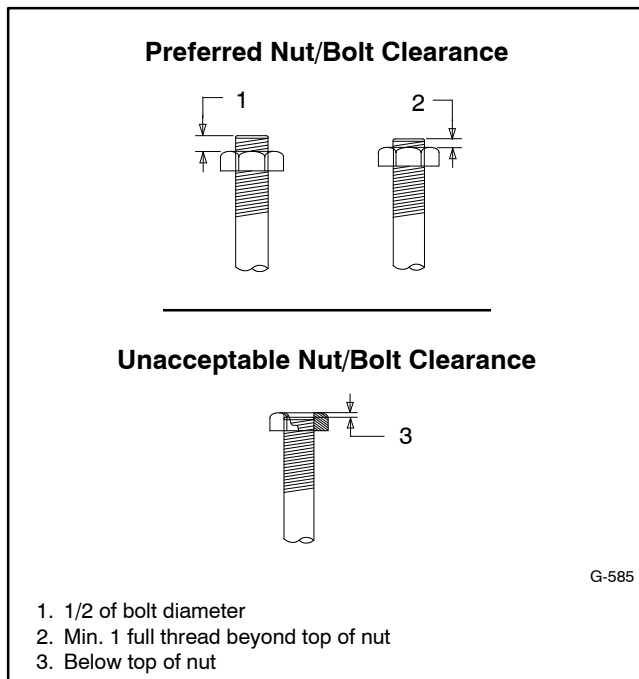


Figure 1 Acceptable Bolt Lengths

Steps for common hardware application:

1. Determine entry hole type: round or slotted.
2. Determine exit hole type: fixed female thread (weld nut), round, or slotted.

For round and slotted exit holes, determine if hardware is greater than 1/2 inch in diameter, or 1/2 inch in diameter or less. Hardware that is *greater than 1/2 inch* in diameter takes a standard nut and SAE washer. Hardware *1/2 inch or less* in diameter can take a properly torqued whiz nut or spirallock nut. See Figure 2.

3. Follow these SAE washer rules after determining exit hole type:
 - a. Always use a washer between hardware and a slot.
 - b. Always use a washer under a nut (see 2 above for exception).
 - c. Use a washer under a bolt when the female thread is fixed (weld nut).
4. Refer to Figure 2, which depicts the preceding hardware configuration possibilities.

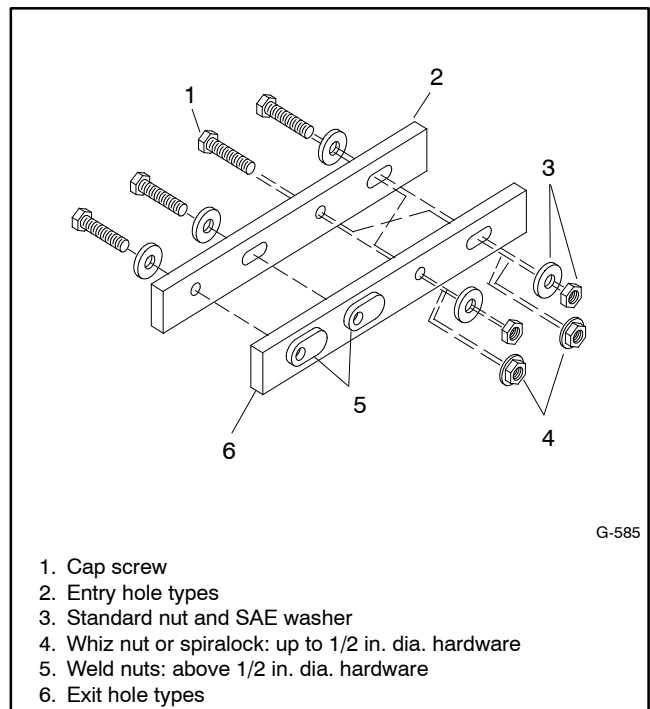


Figure 2 Acceptable Hardware Combinations

Appendix C General Torque Specifications

American Standard Fasteners Torque Specifications						
Size	Assembled into Cast Iron or Steel					Assembled into Aluminum
	Grade 2		Grade 5		Grade 8	
8-32	2.0 Nm	(18 in. lb.)	3.1 Nm	(27 in. lb.)	-	See Note 3
10-24	3.2 Nm	(28 in. lb.)	4.9 Nm	(43 in. lb.)	-	
10-32	3.6 Nm	(32 in. lb.)	5.5 Nm	(49 in. lb.)	-	
12-24	5.0 Nm	(44 in. lb.)	7.7 Nm	(68 in. lb.)	-	
1/4-20	7.6 Nm	(67 in. lb.)	11.6 Nm	(103 in. lb.)	16.5 Nm (146 in. lb.)	
1/4-28	8.6 Nm	(76 in. lb.)	13.2 Nm	(117 in. lb.)	18.8 Nm (166 in. lb.)	
5/16-18	15.5 Nm	(137 in. lb.)	24.0 Nm	(212 in. lb.)	33.9 Nm (300 in. lb.)	
5/16-24	17.1 Nm	(151 in. lb.)	26.4 Nm	(234 in. lb.)	40 Nm (28 ft. lb.)	
3/8-16	27 Nm	(243 in. lb.)	42 Nm	(31 ft. lb.)	60 Nm (44 ft. lb.)	
3/8-24	31 Nm	(274 in. lb.)	47 Nm	(35 ft. lb.)	68 Nm (50 ft. lb.)	
7/16-14	43 Nm	(32 ft. lb.)	68 Nm	(50 ft. lb.)	96 Nm (71 ft. lb.)	
7/16-20	49 Nm	(36 ft. lb.)	76 Nm	(56 ft. lb.)	107 Nm (79 ft. lb.)	
1/2-13	66 Nm	(49 ft. lb.)	103 Nm	(76 ft. lb.)	146 Nm (108 ft. lb.)	
1/2-20	75 Nm	(55 ft. lb.)	117 Nm	(86 ft. lb.)	164 Nm (121 ft. lb.)	
9/16-12	96 Nm	(71 ft. lb.)	149 Nm	(110 ft. lb.)	210 Nm (155 ft. lb.)	
9/16-18	107 Nm	(79 ft. lb.)	165 Nm	(122 ft. lb.)	235 Nm (173 ft. lb.)	
5/8-11	133 Nm	(98 ft. lb.)	206 Nm	(152 ft. lb.)	290 Nm (214 ft. lb.)	
5/8-18	150 Nm	(111 ft. lb.)	232 Nm	(171 ft. lb.)	328 Nm (242 ft. lb.)	
3/4-10	-		365 Nm	(269 ft. lb.)	515 Nm (380 ft. lb.)	
3/4-16	-		405 Nm	(299 ft. lb.)	572 Nm (422 ft. lb.)	
1-8	-		881 Nm	(650 ft. lb.)	1245 Nm (918 ft. lb.)	
1-12	-		961 Nm	(709 ft. lb.)	1357 Nm (1001 ft. lb.)	

Metric Fasteners Torque Specifications, Measured in Nm (ft. lb.)									
Size (mm)	Assembled into Cast Iron or Steel						Assembled into Aluminum		
	Grade 5.8		Grade 8.8		Grade 10.9			Grade 12.9	
Mxxx-04xxx-xx	1.9	(1.4)	2.9	(2.1)	4.3	(3.2)	4.3	(3.2)	See Note 3
Mxxx-05xxx-xx	3.8	(2.8)	5.8	(4.3)	8.5	(6.3)	8.5	(6.3)	
Mxxx-06xxx-xx	6.5	(4.8)	10.4	(7.7)	14.7	(11)	17.6	(13)	
Mxxx-08xxx-xx	16	(12)	25	(17)	36	(26)	43	(31)	
Mxxx-08xxx-xxF	17	(13)	27	(20)	38	(28)	46	(34)	
Mxxx-10xxx-xx	31	(23)	50	(37)	70	(52)	85	(62)	
Mxxx-10xxx-xxF	33	(24)	53	(39)	74	(55)	89	(66)	
Mxxx-12xxx-xx	55	(40)	87	(64)	123	(91)	147	(109)	
Mxxx-12xxx-xxF	60	(44)	95	(70)	134	(99)	161	(119)	
Mxxx-14xxx-xx	87	(64)	135	(103)	196	(145)	236	(174)	
Mxxx-14xxx-xxF	94	(69)	151	(111)	212	(156)	254	(188)	
Mxxx-16xxx-xx	135	(100)	217	(160)	305	(225)	365	(270)	
Mxxx-16xxx-xxF	145	(107)	231	(171)	325	(240)	390	(288)	
Mxxx-18xxx-xx	187	(138)	299	(221)	421	(310)	505	(373)	
Mxxx-18xxx-xxF	210	(155)	336	(248)	473	(349)	567	(419)	
Mxxx-20xxx-xx	264	(195)	423	(312)	595	(439)	714	(526)	
Mxxx-20xxx-xxF	293	(216)	469	(346)	660	(487)	792	(584)	
Mxxx-22xxx-xx	360	(266)	576	(425)	811	(598)	973	(718)	
Mxxx-22xxx-xxF	396	(292)	633	(467)	890	(657)	1068	(788)	
Mxxx-24xxx-xx	457	(337)	731	(539)	1028	(758)	1233	(910)	
Mxxx-24xxx-xxF	498	(367)	797	(588)	1121	(827)	1345	(992)	
Mxxx-27xxx-xx	-		1072	(790)	1507	(1112)	1809	(1334)	
Mxxx-27xxx-xxF	-		1156	(853)	1626	(1199)	1952	(1439)	
Mxxx-30xxx-xx	-		1453	(1072)	2043	(1507)	2452	(1809)	

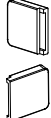
Notes:

1. The torque values above are general guidelines. Always use the torque values specified in the service manuals and/or assembly drawings when they differ from the above torque values.
2. The torque values above are based on new plated threads. Increase torque values by 15% if non-plated threads are used.
3. At minimum, hardware threaded into aluminum must have two diameters of thread engagement. Hardware threaded into steel and cast iron must have 1.25 diameters of thread.
4. Torque values are calculated as equivalent stress loading on American hardware with an approximate preload of 75% of proof strength and a friction coefficient of 0.2.

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	

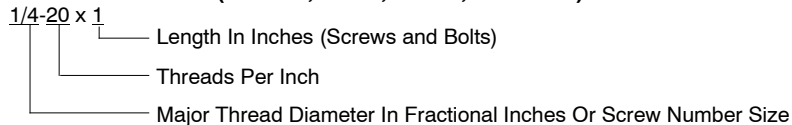
Hardness Grades	
American Standard	
Grade 2	
Grade 5	
Grade 8	
Grade 8/9 (Hex Socket Head)	
Metric	
Number stamped on hardware; 5.8 shown	
Hose Clamp Covers	
Black, EPDM rubber used on worm gear clamps	

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

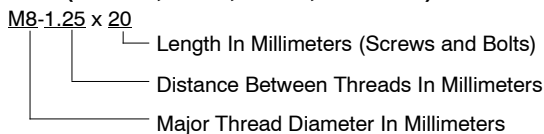
Phillips® screw is a registered trademark of Phillips Screw Company.

Sample Dimensions

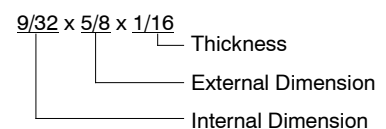
American Standard (Screws, Bolts, Studs, and Nuts)



Metric (Screws, Bolts, Studs, and Nuts)



Plain Washers



Lock Washers



Appendix E Common Hardware List

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

American Standard

Part No.	Dimensions	Part No.	Dimensions	Part No.	Dimensions	Type
Hex Head Bolts (Grade 5)		Hex Head Bolts, cont.		Hex Nuts		
X-465-17	1/4-20 x .38	X-6238-14	3/8-24 x .75	X-6009-1 X-6210-3 X-6210-4 X-6210-5 X-6210-1 X-6210-2 X-6210-6 X-6210-7 X-6210-8 X-6210-9 X-6210-10 X-6210-11 X-6210-12 X-6210-15 X-6210-14	1-8	Standard
X-465-6	1/4-20 x .50	X-6238-16	3/8-24 x 1.25		6-32	Whiz
X-465-2	1/4-20 x .62	X-6238-21	3/8-24 x 4.00		8-32	Whiz
X-465-16	1/4-20 x .75	X-6238-22	3/8-24 x 4.50		10-24	Whiz
X-465-18	1/4-20 x .88				10-32	Whiz
X-465-7	1/4-20 x 1.00	X-6024-5	7/16-14 x .75			
X-465-8	1/4-20 x 1.25	X-6024-2	7/16-14 x 1.00			
X-465-9	1/4-20 x 1.50	X-6024-8	7/16-14 x 1.25			
X-465-10	1/4-20 x 1.75	X-6024-3	7/16-14 x 1.50			
X-465-11	1/4-20 x 2.00	X-6024-4	7/16-14 x 2.00			
X-465-12	1/4-20 x 2.25	X-6024-11	7/16-14 x 2.75			
X-465-14	1/4-20 x 2.75	X-6024-12	7/16-14 x 6.50			
X-465-21	1/4-20 x 5.00					
X-465-25	1/4-28 x .38	X-129-15	1/2-13 x .75			
X-465-20	1/4-28 x 1.00	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-125-33	5/16-18 x .50	X-129-20	1/2-13 x 1.75			
X-125-23	5/16-18 x .62	X-129-21	1/2-13 x 2.00			
X-125-3	5/16-18 x .75	X-129-22	1/2-13 x 2.25	X-85-3	5/8-11	Standard
X-125-31	5/16-18 x .88	X-129-23	1/2-13 x 2.50	X-88-12	3/4-10	Standard
X-125-5	5/16-18 x 1.00	X-129-24	1/2-13 x 2.75	X-89-2	1/2-20	Standard
X-125-24	5/16-18 x 1.25	X-129-25	1/2-13 x 3.00			
X-125-34	5/16-18 x 1.50	X-129-27	1/2-13 x 3.50			
X-125-25	5/16-18 x 1.75	X-129-29	1/2-13 x 4.00			
X-125-26	5/16-18 x 2.00	X-129-30	1/2-13 x 4.50			
230578	5/16-18 x 2.25	X-463-9	1/2-13 x 5.50			
X-125-29	5/16-18 x 2.50	X-129-44	1/2-13 x 6.00			
X-125-27	5/16-18 x 2.75					
X-125-28	5/16-18 x 3.00	X-129-51	1/2-20 x .75			
X-125-22	5/16-18 x 4.50	X-129-45	1/2-20 x 1.25			
X-125-32	5/16-18 x 5.00	X-129-52	1/2-20 x 1.50			
X-125-35	5/16-18 x 5.50					
X-125-36	5/16-18 x 6.00	X-6021-3	5/8-11 x 1.00			
X-125-40	5/16-18 x 6.50	X-6021-4	5/8-11 x 1.25			
		X-6021-2	5/8-11 x 1.50			
X-125-43	5/16-24 x 1.75	X-6021-1	5/8-11 x 1.75			
X-125-44	5/16-24 x 2.50	273049	5/8-11 x 2.00			
X-125-30	5/16-24 x .75	X-6021-5	5/8-11 x 2.25			
X-125-39	5/16-24 x 2.00	X-6021-6	5/8-11 x 2.50			
X-125-38	5/16-24 x 2.75	X-6021-7	5/8-11 x 2.75			
		X-6021-12	5/8-11 x 3.75			
X-6238-2	3/8-16 x .62	X-6021-11	5/8-11 x 4.50			
X-6238-10	3/8-16 x .75	X-6021-10	5/8-11 x 6.00			
X-6238-3	3/8-16 x .88					
X-6238-11	3/8-16 x 1.00	X-6021-9	5/8-18 x 2.50			
X-6238-4	3/8-16 x 1.25					
X-6238-5	3/8-16 x 1.50	X-6239-1	3/4-10 x 1.00			
X-6238-1	3/8-16 x 1.75	X-6239-8	3/4-10 x 1.25			
X-6238-6	3/8-16 x 2.00	X-6239-2	3/4-10 x 1.50			
X-6238-17	3/8-16 x 2.25	X-6239-3	3/4-10 x 2.00			
X-6238-7	3/8-16 x 2.50	X-6239-4	3/4-10 x 2.50			
X-6238-8	3/8-16 x 2.75	X-6239-5	3/4-10 x 3.00			
X-6238-9	3/8-16 x 3.00	X-6239-6	3/4-10 x 3.50			
X-6238-19	3/8-16 x 3.25					
X-6238-12	3/8-16 x 3.50	X-792-1	1-8 x 2.25			
X-6238-20	3/8-16 x 3.75	X-792-5	1-8 x 3.00			
X-6238-13	3/8-16 x 4.50	X-792-8	1-8 x 5.00			
X-6238-18	3/8-16 x 5.50					
X-6238-25	3/8-16 x 6.50					

Metric

Hex head bolts are hardness grade 8.8 unless noted.

Part No. Dimensions Hex Head Bolts (Partial Thread)

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

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

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

Hex Head Bolts (Full Thread)

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

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

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

Pan Head Machine Screws

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

Flat Head Machine Screws

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

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

Metric, continued

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

Washers

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

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

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