

Service Parts

Residential/Commercial Generator Sets



Models:

14RES/RESL

20RES/RESL

RRT- Transfer Switch

KOHLER®

POWER SYSTEMS

ISO 9001
KOHLER
POWER SYSTEMS
NATIONALLY REGISTERED

TP-6736 7/12c

Common Replacement Parts

Figure 1 identifies 2000-hour common replacement parts for your generator set. Refer to the groups on the following pages for a complete list of maintenance and service parts.

Description	Part Number	Quantity	
		14RES	20RES
Sensor, oil temperature	GM28823	1	1
Filter, oil	12 050 01-S	8	
Filter, oil	52 050 02-S		8
Switch, oil pressure	52 099 08-S	1	
Switch, oil pressure	48 099 07-S		1
Spark plug	25 132 14-S	2	
Spark plug	62 132 04-S		2
Kit, starter solenoid	25 435 06-S	1	1
Element, air filter	24 083 09-S	1	
Element, air filter	62 083 04-S		1
Fuse, 3 Amp	GM66128	5	5
Fuse, 7.5 Amp	GM66129	5	5
Bushing, linkage retaining	25 158 08-S	4	4
Coupling, stepper motor	358358	4	4

Figure 1 2000-Hour Replacement Parts

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Introduction

This manual lists service replacement parts for 14RES and 20RES generator sets.

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This manual includes the following main sections:

Table of Contents. Lists the sections of the manual.

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

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

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

Kit Sections. List modules and accessories and their parts.

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

Numbering System Significance

This manual uses the following numbering systems:

Specification Number. The product identification number located on the generator set nameplate. 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												
	<i>Crankshaft</i>	<i>Crankcase</i>	<i>Oil Pan/Lubrication</i>	<i>Cylinder Head/Valve/Breather</i>	<i>Ignition/Electrical</i>	<i>Blower Housing & Baffles</i>	<i>Starting System</i>	<i>Carburetor</i>	<i>Engine Controls</i>	<i>Air Intake/Filtration</i>	<i>Engine Exhaust</i>	<i>Engine Decals</i>
Group No.	1	2	3	4	5	6	7	8	9	10	11	12
Spec No.	Variation Number											

14RES/14RESL												
GM66561-GA2	67	372	763	609	1137	352	5	806	486	203	3	570
GM66561-GA4	67	372	763	609	1188	352	5	806	486	371	3	851
GM80874-GA2	67	372	763	609	1188	352	5	855	513	371	3	851
14RESL-SA1	67	372	763	609	1137	352	5	806	486	203	3	570
14RESL-SA2	67	372	763	609	1188	352	5	806	486	371	3	851
14RESL-SA3	67	372	763	609	1188	352	5	855	513	371	3	851
20RES/20RESL												
GM66561-GA1	12	5	15	7	12	3	1	13	13	13	9	7
GM66561-GA3	12	5	15	7	30	3	1	13	13	13	9	16
GM80874-GA1	12	5	15	7	30	3	1	16	44	13	9	16
20RESL-SA1	12	5	15	7	12	3	1	13	13	13	9	7
20RESL-SA2	12	5	15	7	12	3	1	13	13	13	9	7
20RESL-SA3	12	5	15	7	30	3	1	13	13	13	9	16
20RESL-SA4	12	5	15	7	30	3	1	16	44	13	9	16

Specification Number Index

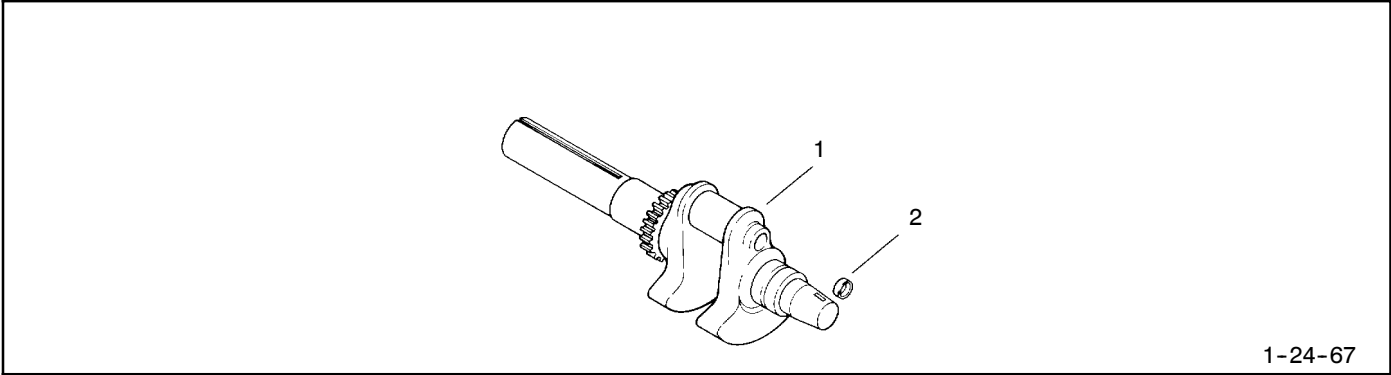
Group Title													
	Fuel System	Engine	Nameplate and Decals	Skid	Customer Connection	Harness	Circuit Breaker	Exhaust	Alternator	Controller	Bulkhead	Enclosure	Literature
Spec No.	Variation Number												

14RES/14RESL													
GM66561-GA2	2	2	1	1	1	1	6	2	2	1	1	1	44
GM66561-GA4	2	4	1	1	2	1	6	2	2	1	1	1	53
GM80874-GA2	4	5	1	1	3	2	3	6	4	1	2	2	53
14RESL-SA1	2	2	1	1	1	1	6	2	2	2	1	1	45
14RESL-SA2	2	4	1	1	2	1	6	2	2	2	1	1	54
14RESL-SA3	4	5	1	1	3	2	3	6	4	2	2	2	54
20RES/20RESL													
GM66561-GA1	1	1	1	1	1	1	11	1	3	1	1	1	46
GM66561-GA3	1	3	1	1	2	1	12	1	3	1	1	1	59
GM80874-GA1	3	6	1	1	3	2	4	5	8	1	2	2	59
20RESL-SA1	1	1	1	1	1	1	11	1	3	2	1	1	47
20RESL-SA2	1	1	1	1	1	1	12	1	3	2	1	1	47
20RESL-SA3	1	3	1	1	2	1	12	1	3	2	1	1	60
20RESL-SA4	3	6	1	1	3	2	4	5	8	2	2	2	60

Notes

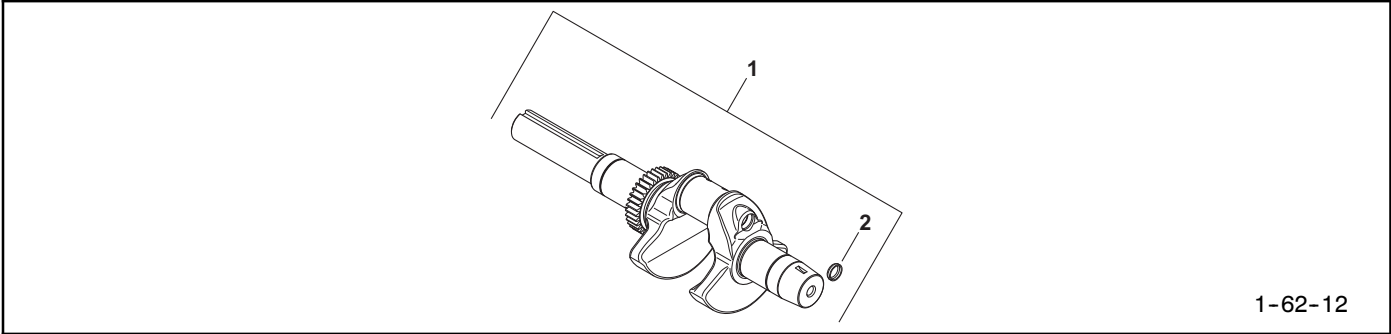
Group 1: Crankshaft

14RES



			Qty.
			Variation
			67
1	24 014 183	Crankshaft assembly	1
2	52 139 09	Plug, cap	1

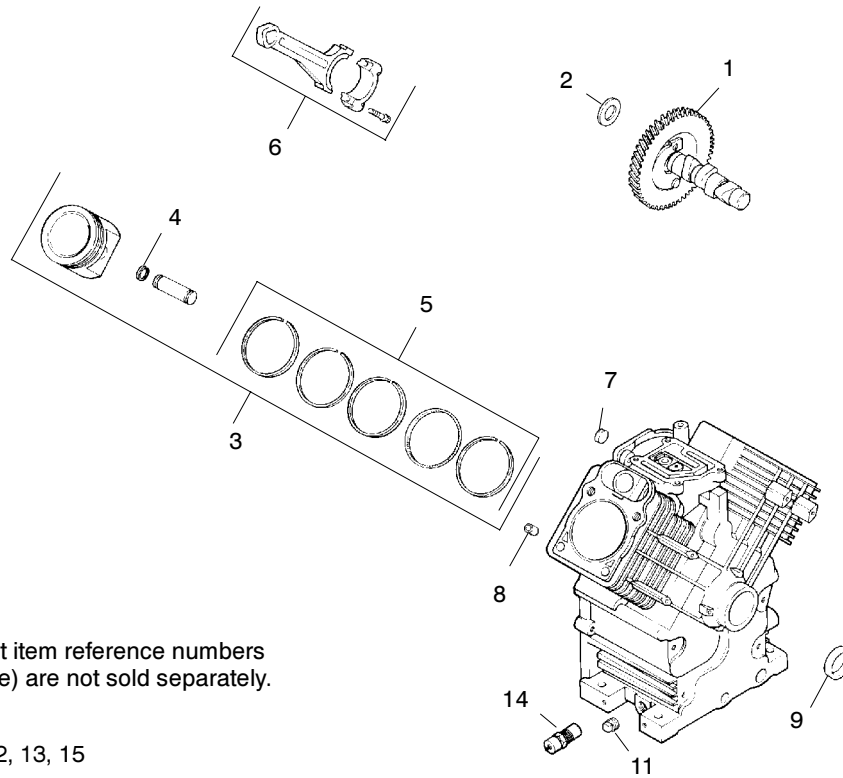
20RES



			Quantity
			Variation
			12
Item	Part Number	Description	
1	62 014 80-S	Crankshaft assembly (includes item 2)	1
2	25 139 27-S	Plug, cup	1

Group 2: Crankcase

14RES



Illustrated parts without item reference numbers
(the piston, for example) are not sold separately.

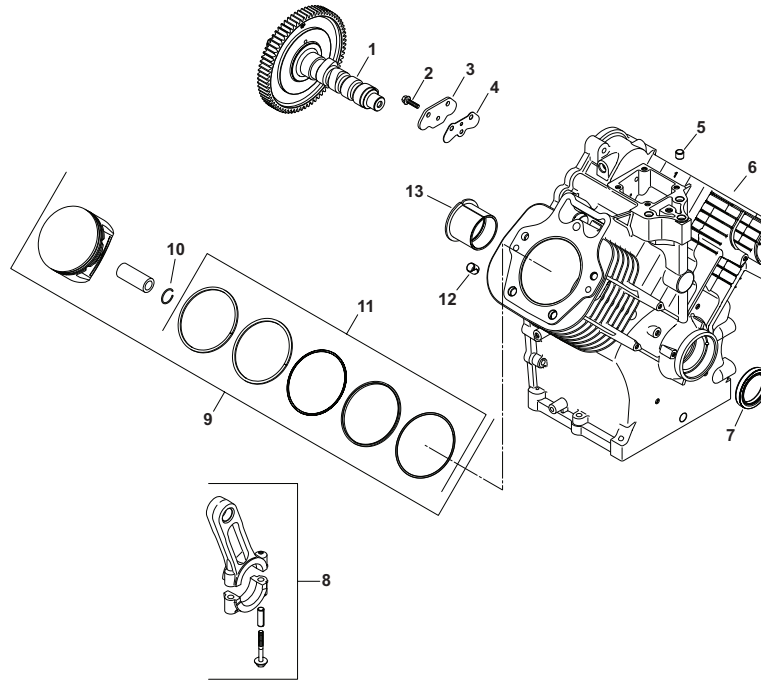
Items not shown: 10, 12, 13, 15

2-24-372

			Qty.
			Variation
			372
1	24 012 26-S	Camshaft	1
3	25 874 01-S	Piston w/ring set, standard	2
3	25 874 02-S	Piston w/ring set, 0.08 OS	2
3	25 874 03-S	Piston w/ring set, 0.25 OS	2
3	25 874 04-S	Piston w/ring set, 0.50 OS	2
4	24 018 01-S	Retainer, piston pin	4
5	24 108 14-S	Ring set, standard	2
5	24 108 15-S	Ring set, 0.08	2
5	24 108 16-S	Ring set, 0.25	2
5	24 108 17-S	Ring set, 0.50	2
6	24 067 28-S	Rod, connecting, standard	2
6	24 067 29-S	Rod, connecting, 0.25	2
7	52 139 09-S	Plug, cup	1
8	24 380 13-S	Dowel, locating	6
9	24 032 19-S	Seal, oil front	1
10	25 139 57-S	Plug, cup (not shown)	1
10	25 139 28-S	Plug, cup (not shown)	1
11	X-75-10	Plug, solid square head, 3/8 in., NPTF	2
14	GM28823	Sensor, oil temperature	1
15	25 158 18-S	Bushing, reducing (not shown)	1

Group 2: Crankcase

20RES



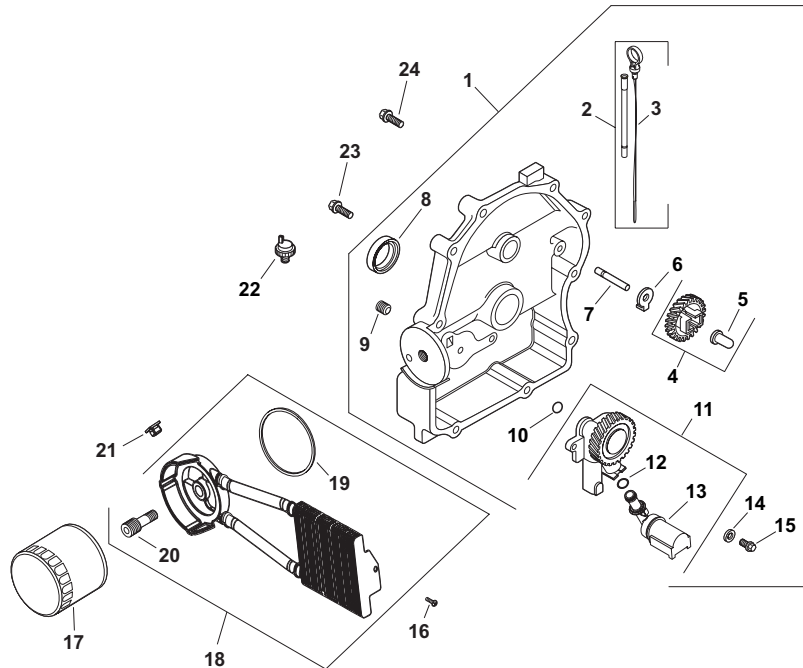
Illustrated parts without item reference numbers
(the piston, for example) are not sold separately.

2-62-5

Item	Part Number	Description	Quantity
			Variation
1	62 010 05-S	Kit, camshaft (includes 25 357 14-S)	5
2	M-551020-S	Screw, hvy flg M5 x 0.8 x 20	1
3	62 096 29-S	Cover, lifter feed	3
4	62 041 24-S	Gasket, lifter feed cover	1
5	15 380 01-S	Pin	1
6	—	Crankcase (use short block)	3
7	62 032 16-S	Seal, oil	1
8	62 067 06-S	Rod, connecting assembly, standard	1
8	62 067 08-S	Rod, connecting assembly, 0.25	2
9	62 874 05-S	Kit, piston assembly, standard, (includes items 11,12)	2
9	62 874 06-S	Kit, piston assembly, 0.25	2
9	62 874 07-S	Kit, piston assembly, 0.50	2
10	62 018 04-S	Retainer, piston pin	4
11	62 108 04-S	Ring set, standard	1
11	62 108 05-S	Ring set, 0.25	1
11	62 108 06-S	Ring set, 0.50	1
12	24 380 16-S	Pin, locating	6
13	62 030 03-S	Bearing, crankshaft (flywheel)	1
—	25 357 14-S	Lubricant, camshaft (not shown)	1

Group 3: Oil Pan/Lubrication

14RES

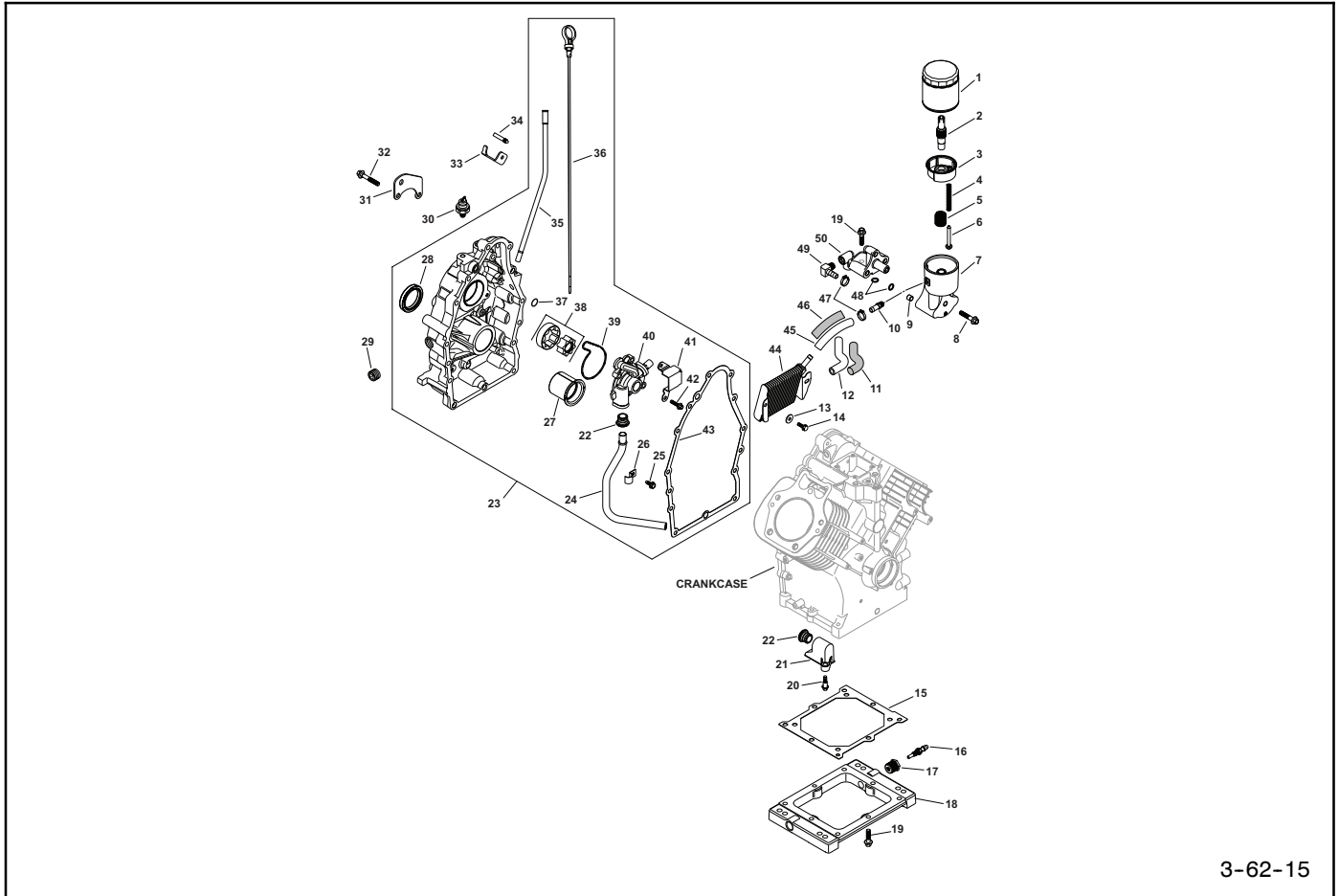


3-24-763

Item	Part Number	Description	Quantity
			Variation 763
1	24 009 92-S	Kit, closure plate assembly	1
2	24 755 121-S	Kit, dipstick/dipstick tubes (includes item 3)	1
3	24 038 10-S	Dipstick	1
4	24 043 12-S	Kit, governor gear w/pin (includes item 5)	1
5	12 380 01-S	Pin, governor regulating	1
6	24 448 02-S	Tab, locking	1
7	12 144 02-S	Shaft, governor gear	1
8	25 032 06-S	Seal, oil	1
9	25 139 60-S	Plug, hex countersunk, 1/8 in.	1
10	24 153 08-S	O-ring	1
11	24 393 51-S	Kit, oil pump assembly (includes items 12, 13)	1
12	24 153 01-S	O-ring	1
13	24 381 04-S	Pickup, oil	1
14	X-25-53	Washer, flat	2
15	M-645030-S	Screw, flange thread forming	2
16	24 086 12-S	Screw, hex cap, M6 x 1.7 x 18	2
17	12 050 01-S	Filter, oil	1
18	54 755 21-S	Kit, alum base oil cool	1
19	24 153 21-S	O-ring , oil cooler	1
20	24 136 05-S	Nipple, oil filter	1
21	25 100 37-S	Nut, plastic	2
22	52 099 08-S	Switch, oil pressure	1
23	24 086 17-S	Screw, hex head	9
24	25 086 317-S	Screw, hex flange	1

Group 3: Oil Pan/Lubrication

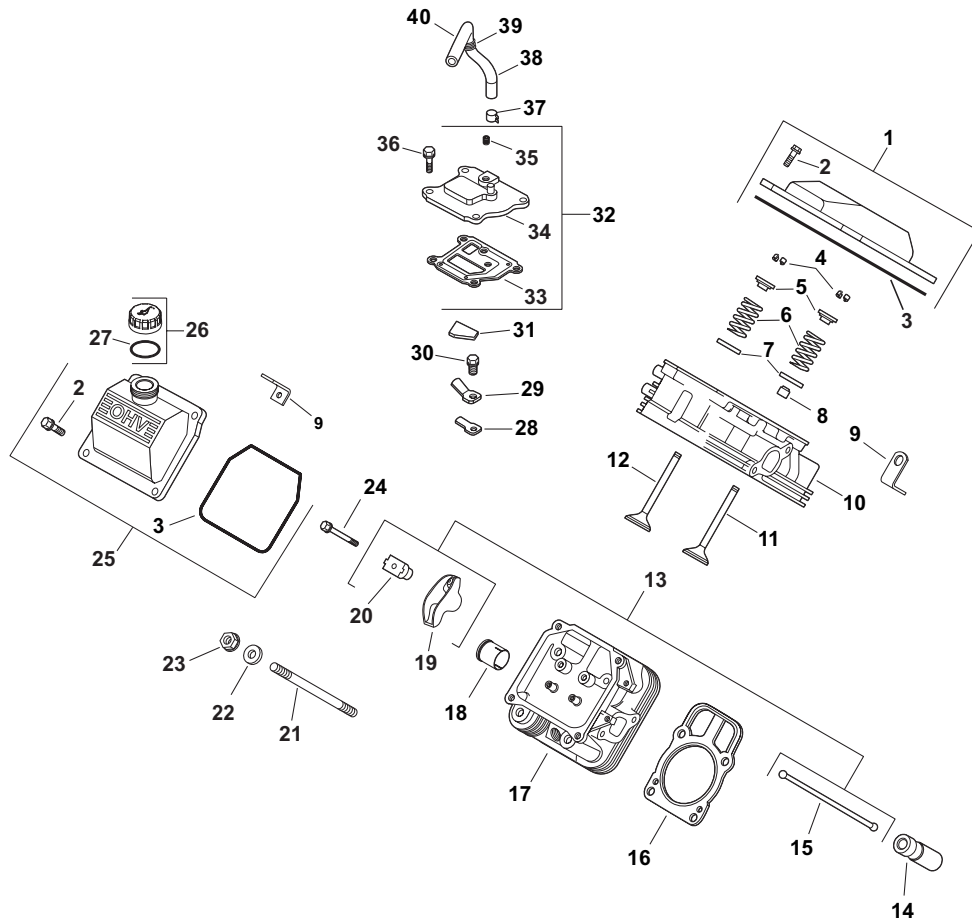
20RES



Item	Part Number	Description	Qty.	Item	Part Number	Description	Qty.
			Var. 15				Var. 15
1	52 050 02-S	Filter, oil	1	26	62 237 02-S	Clamp	1
2	62 136 01-S	Nipple, oil filter	1	27	62 030 04-S	Bearing, crankshaft (PTO)	1
3	62 109 01-S	Cup, oil filter	1	28	62 032 16-S	Seal, oil	1
4	62 089 11-S	Spring, oil filter valve	1	29	25 139 74-S	Plug, pipe, 1/2 NPTF sq ctsk	1
5	62 089 12-S	Spring, oil filter cup	1	30	48 099 07-S	Switch, oil pressure	1
6	62 462 02-S	Valve, oil filter	1	31	62 445 04-S	Strap, lifting	1
7	62 081 11-S	Housing, horizontal oil filter	1	32	62 086 07-S	Screw, flg, M8 x 1.25 x 50	14
8	M-851040-S	Screw, flg M8 x 1.25 x 40	1	33	62 126 13-S	Bracket, dipstick tube	1
9	15 380 01-S	Pin	3	34	25 237 14-S	Clamp, spring hose, 1/2 in.	1
10	12 294 04-S	Fitting, hose to pipe	1	35	62 123 15-S	Kit, dipstick tube (includes 25 597 05-S)	1
11	25 431 11-S	Sleeve, anti abrasion	1	36	62 038 04-S	Dipstick	1
12	62 326 06-S	Hose, oil supply	1	37	24 153 08-S	O-ring	1
13	X-25-52-S	Washer, flat 1/4 in.	2	38	62 393 01-S	Pump assembly, oil/gerotor	1
14	24 086 12-S	Screw, tap M6 x 1.7 x 18	2	39	62 153 04-S	O-ring, oil pump housing	1
15	62 041 22-S	Gasket, oil reservoir	1	40	62 081 08-S	Housing assembly, oil pump	1
16	GM28823	Sensor, temperature	1	41	62 063 14-S	Baffle, relief valve	1
17	25 158 19-S	Bushing, reducer 1/2-1/8 in. NPT, steel	1	42	M-639025-S	Screw, flg, M6 x 1.0 x 25	3
18	62 199 02-S	Kit, oil reservoir	1	43	62 041 21-S	Gasket, oil pan	1
19	M-851030-S	Screw, flg M8 x 1.25 x 30	9	44	62 594 02-S	Cooler, oil assembly	1
20	32 086 01-S	Screw, shd thd frm, M6 x 1.0 x 26.5	1	45	62 326 10-S	Hose, oil return	1
21	62 081 06-S	Housing assembly, oil pickup	1	46	25 431 16-S	Sleeve, anti abrasion	1
22	62 032 19-S	Seal, oil pick-up tube	2	47	25 237 02-S	Clamp	4
23	62 009 15-S	Kit, closure plate (includes items 22 [qty.1], 24-28, 35-43)	1	48	24 153 01-S	O-ring, oil pick-up	6
24	62 123 05-S	Tube, oil pickup	1	49	24 294 12-S	Fitting, 90 deg. barbed	1
25	M-645016-S	Screw, flg thd frm, M6 x 1.0 x 16	1	50	62 029 04-S	Adapter, horizontal oil filter	1
				—	25 597 05-S	Sealant, Loctite (not shown)	1

Group 4: Cylinder Head/Valve/Breather

14RES

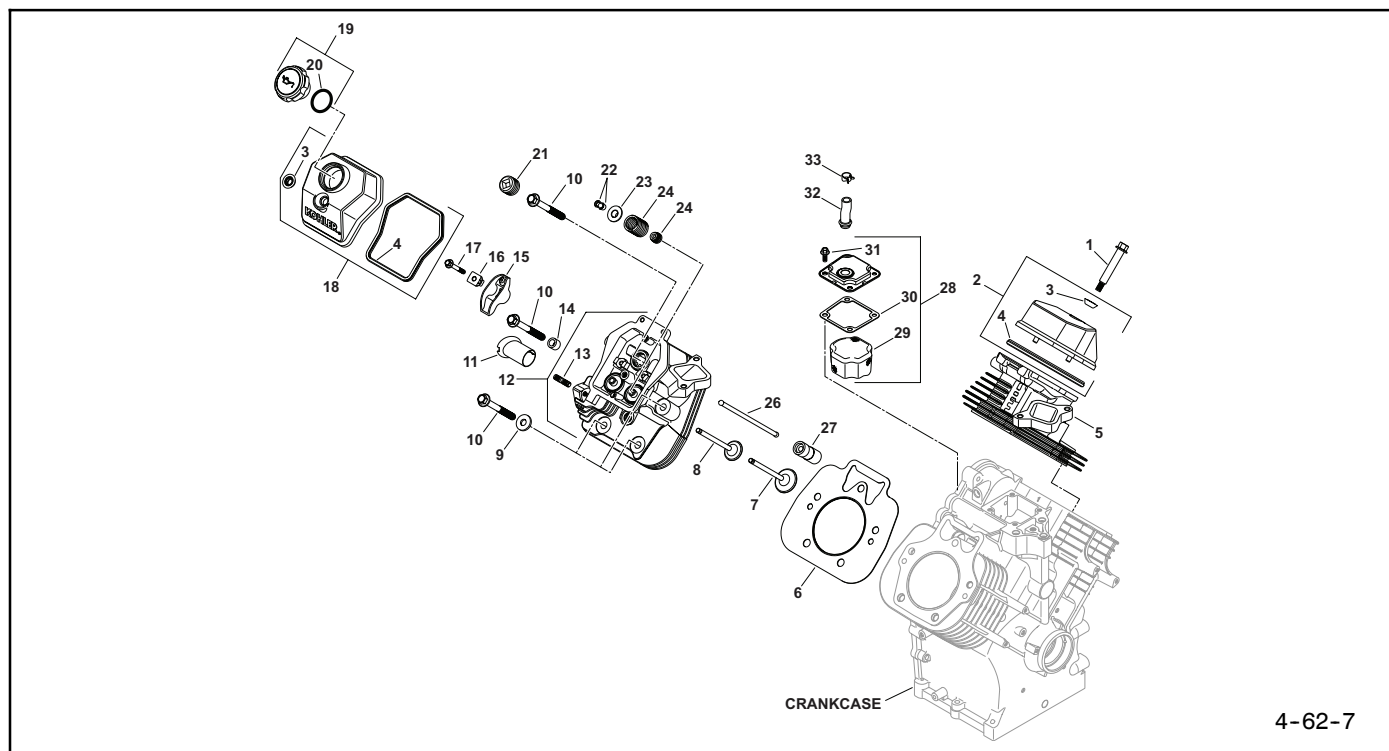


4-24-609

Item	Part Number	Description	Qty Var 609	Item	Part Number	Description	Qty Var 609
1	24 755 141-S	Kit, valve cover-plain (includes items 2, 3)	1	21	24 072 04-S	Stud	8
2	M-651030-S	Screw, flange, M6 x 1.0 x 30	4	22	24 468 16-S	Washer, flat	8
3	24 153 30-S	O-ring	2	23	24 100 10-S	Nut, hex flange	8
4	12 755 03-S	Kit, retainer	2	24	M-640034-S	Screw, flange, M6 x 1.0 x 34	4
5	25 173 28-S	Cap, valve spring	4	25	24 755 140-S	Kit, oil fill rocker cover	1
6	24 089 02-S	Spring, valve	2	26	24 755 46-S	Kit, oil fill cap (includes 26)	1
7	235011-S	Retainer, spring	2	27	25 153 02-S	O-ring	1
8	66 032 05-S	Seal, valve stem	2	28	24 402 03-S	Reed, breather	1
9	12 445 02-S	Strap	2	29	66 018 04-S	Retainer, reed	1
10	24 318 110-S	Kit, cylinder head assembly	1	30	M-545010-S	Screw, flange thread forming, M5 x 0.8 x 10	1
11	24 017 01-S	Valve, intake, standard	2	31	24 050 11-S	Filter, breather	1
11	24 017 02-S	Valve, intake, 0.25	2	32	24 033 01-S	Kit, breather w/plug (includes 33-35)	1
12	24 016 01-S	Valve, exhaust, standard	2	33	24 041 67-S	Gasket, breather	1
12	24 016 02-S	Valve, exhaust, 0.25	2	34	-	Cover (See item 32)	1
13	24 755 66-S	Kit, valve train	1	35	25 139 60-S	Plug, pipe, 1/8 NPTF hex countersunk	1
14	25 351 07-S	Kit, hydraulic valve lifter	4	36	M-645020-S	Screw, thread forming, M6 x 1.0 x 20	4
15	24 411 05-S	Rod, push	2	37	25 237 08-S	Hose clamp	1
16	24 841 03-S	Kit, cylinder head gasket (includes 22, 23)	2	38	24 326 89-S	Hose, breather	1
17	24 318 118-S	Kit, cylinder head assembly	1	39	-	Not used	1
18	-	Not used	-	40	-	Not used	1
19	25 186 01-S	Arm, rocker	2	—	24 755 147-S	Kit, cylinder head hardware (includes 4-8, 11, 12, 15, 19, 20, 24)	1
20	24 599 02-S	Pivot, rocker arm	2				

Group 4: Cylinder Head/Valve/Breather

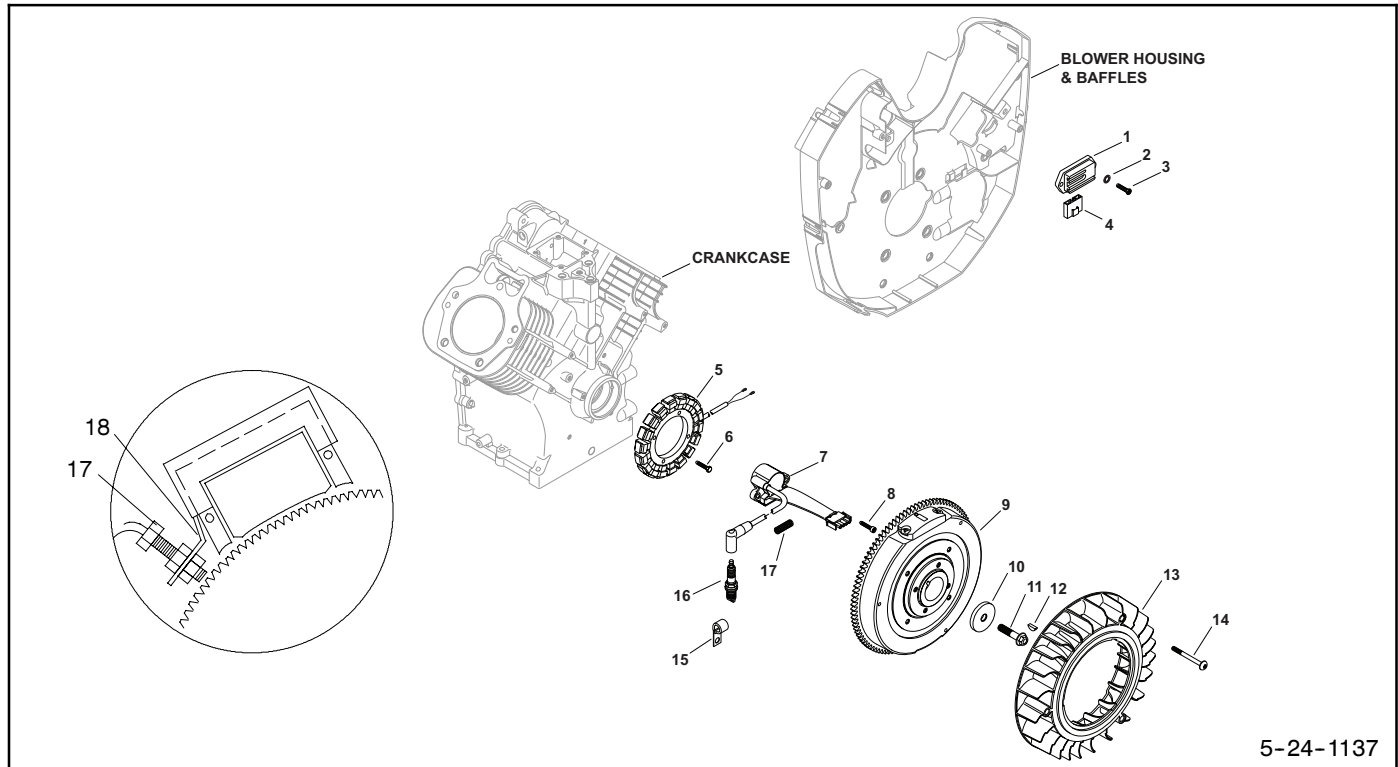
20RES



Item	Part Number	Description	Quantity
			Variation
1	25 086 272-S	Screw, shoulder	2
2	62 096 26-S	Kit, cover, valve (includes items 3, 4)	1
3	62 313 04-S	Grommet, valve cover screw	2
4	62 032 15-S	Seal, valve cover	2
5	62 318 12-S	Kit, cylinder head #1 (includes item 13 [qty2])	1
6	62 841 01-S	Kit, cylinder head gasket (includes 62 041 14-S, 62 041 13-S)	2
7	62 017 01-S	Valve, intake	2
8	62 016 02-S	Valve, exhaust	2
9	12 468 05-S	Washer, flat, 13/32 in.	6
10	62 086 08-S	Screw, flg, M10 x 1.5 x 90	10
11	62 605 05-S	Liner, exhaust port	2
12	62 318 13-S	Kit, cylinder head #2 (includes item 13 [qty2])	1
13	25 072 04-S	Stud, M8 x 1.25 x 33	4
14	62 112 03-S	Spacer	2
15	25 186 01-S	Arm, rocker	4
16	24 599 02-S	Pivot, rocker arm	4
17	32 086 04-S	Screw, flg, M6 x 1.0 x 45	4
18	62 096 27-S	Kit, cover, valve (includes items 3, 4)	1
19	62 173 03-S	Cap, oil fill assembly (includes item 20)	1
20	62 153 10-S	O-ring	1
21	25 139 66-S	Plug, pipe, 3/4 NPTF sq ctsk	2
22	12 755 03-S	Kit, retainer	4
23	25 173 28-S	Cap, valve spring	4
24	24 089 02-S	Spring, valve	4
25	66 032 05-S	Seal, valve stem	4
26	12 411 04-S	Rod, push	4
27	25 351 04-S	Kit, hydraulic valve lifter (includes 25 357 14-S)	4
28	62 033 06-S	Kit, breather assembly (includes items 29-31)	1
29	62 050 08-S	Filter, breather	1
30	62 041 27-S	Gasket, breather	1
31	M-651016-S	Screw, flg, M6 x 1.0 x 16	4
32	62 326 15-S	Hose, breather horizontal generator	1
33	25 237 08-S	Clamp, band spring hose	1
—	62 755 03-S	Kit, cylinder head hardware (services 1 head. Quantities listed are for both heads) (includes items 7, 8, 15-17, 22-26)	2
—	25 357 14-S	Lubricant, camshaft (not shown)	1
—	62 041 14-S	Gasket, exhaust (not shown)	2
—	62 041 13-S	Gasket, intake manifold (not shown)	2

Group 5: Ignition/Electrical

14RES

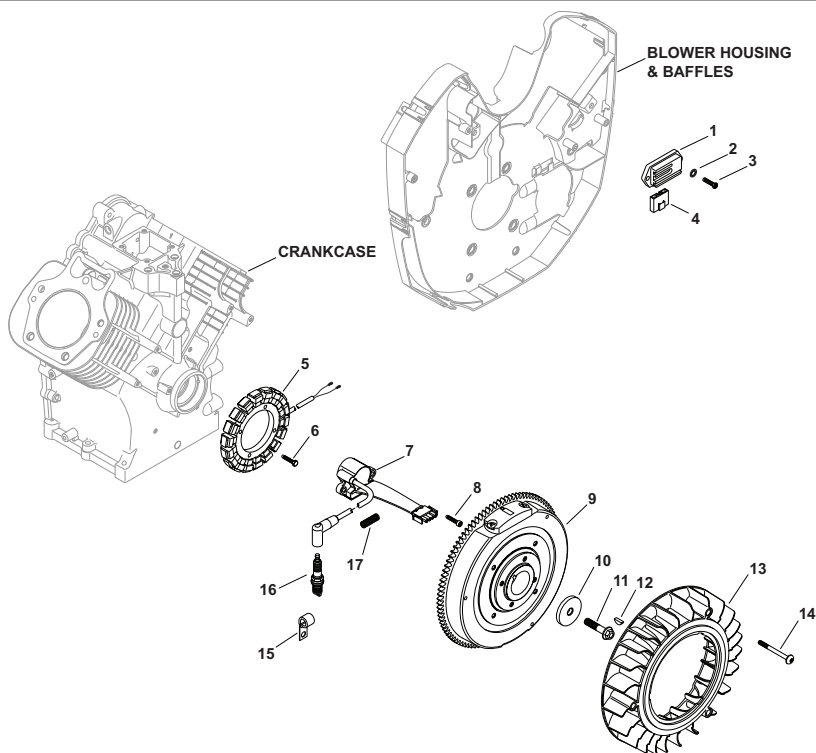


5-24-1137

Item	Part Number	Description	Quantity	
			Variation	
			1137	1188
1	41 403 10-S	Rectifier-regulator	1	
2	X-22-11-S	Washer, int tooth lock, 1/4 in.	2	
3	24 086 18-S	Screw, phl hd #11-16 x 7/8 in.	2	
4	25 155 41-S	Connector (3 contact)	1	
5	237878-S	Kit, 15 amp stator (includes 25 452 01-S)	1	
6	M-548025-S	Screw, thd frm, M5 x 0.8 x 25	2	
7	24 584 65-S	Module, spark advance (DSA) assembly	2	2
8	M-561025-S	Screw, skt thd frm, M5 x 0.8 x 25	4	4
9	24 025 58-S	Flywheel assembly	1	
9	24 025 15-S	Flywheel assembly		1
10	12 468 03-S	Washer, flat	1	1
11	12 086 14-S	Screw, flg, M10 x 1.5 x 45	1	1
12	X-42-15-S	Key, 3/16 in. x 5/8 in.	1	1
13	24 157 16-S	Fan	1	1
14	25 086 47-S	Screw	4	4
15	235173-S	Clip, cable	1	1
16	25 132 14-S	Plug, spark	2	2
17	62 418 02-S	Sensor assembly	1	1
18	24 126 171-S	Bracket, sensor mounting	1	1
—	25 518 34-S	Lead (not shown)	1	
—	25 454 07-S	Tie (not shown)	2	2
—	24 176 147-S	Harness, wiring (not shown)	1	1
—	24 126 171-S	Bracket, ground strap (not shown)	1	1

Group 5: Ignition/Electrical

20RES

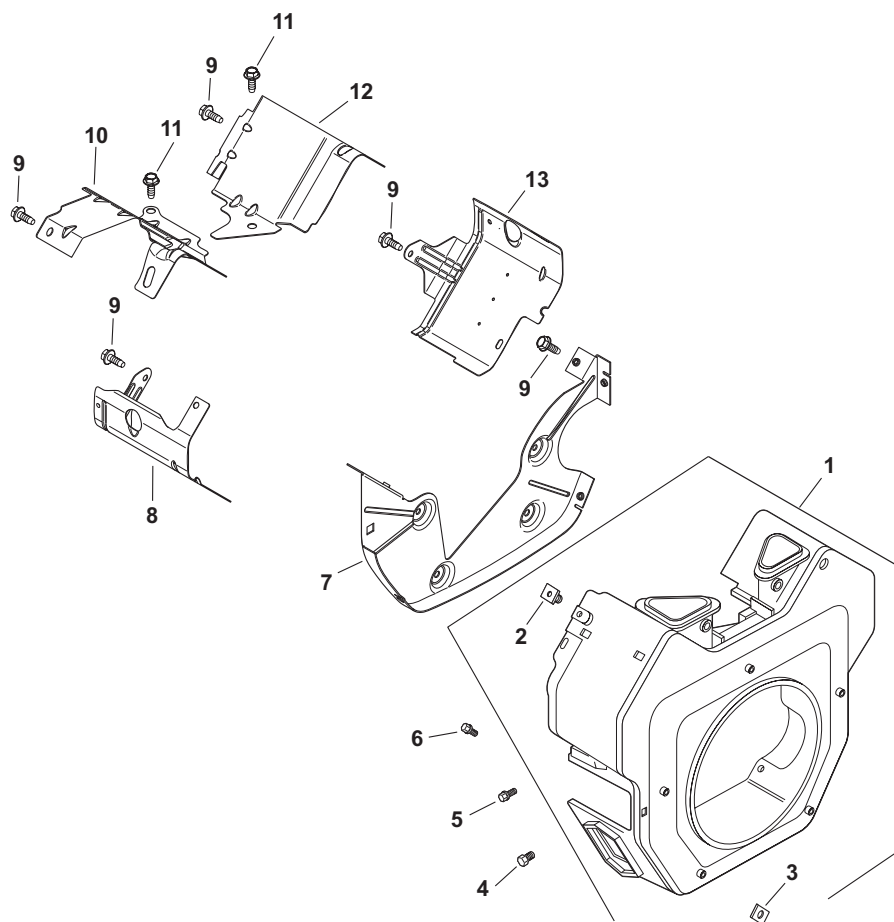


5-62-12

Item	Part Number	Description	Quantity	
			Variation	
			12	30
1	41 403 10-S	Rectifier-regulator	1	
2	X-22-11-S	Washer, int tooth lock, 1/4 in.	2	
3	24 086 18-S	Screw, phl hd #11-16 x 7/8 in.	2	
4	25 155 41-S	Connector	1	
5	237878-S	Kit, 15 amp stator (includes 25 452 01-S)	1	
6	M-548025-S	Screw, thd frm, M5 x 0.8 x 25	2	
7	62 584 15-S	Module, spark advance (DSAII) assembly	2	2
8	M-561025-S	Screw, skt thd frm, M5 x 0.8 x 25	4	4
9	62 025 05-S	Flywheel assembly	1	1
10	62 468 01-S	Washer, flat 13/32 in.	1	1
11	12 086 14-S	Screw, flg, M10 x 1.5 x 45	1	1
12	X-42-15-S	Key, 3/16 in. x 5/8 in.	1	1
13	62 157 02-S	Fan, front drive adapter hole	1	1
14	25 086 132-S	Screw, trs hd, M6 x 1.0 x 65	3	3
15	25 154 04-S	Clip, cable	1	1
16	62 132 04-S	Plug, spark	2	2
17	62 431 02-S	Sleeve, corrugated	2	2
—	12 454 03-S	Tie, cable (not shown)	1	1
—	24 518 12-S	Lead (not shown)	1	1
—	25 452 01-S	Terminal (not shown)	1	
—	25 454 07-S	Tie (not shown)	2	2
—	62 176 15-S	Harness, wiring (not shown)	1	1
—	62 518 01-S	Lead, B+ to starter solenoid (not shown)	1	

Group 6: Blower Housing and Baffles

14RES

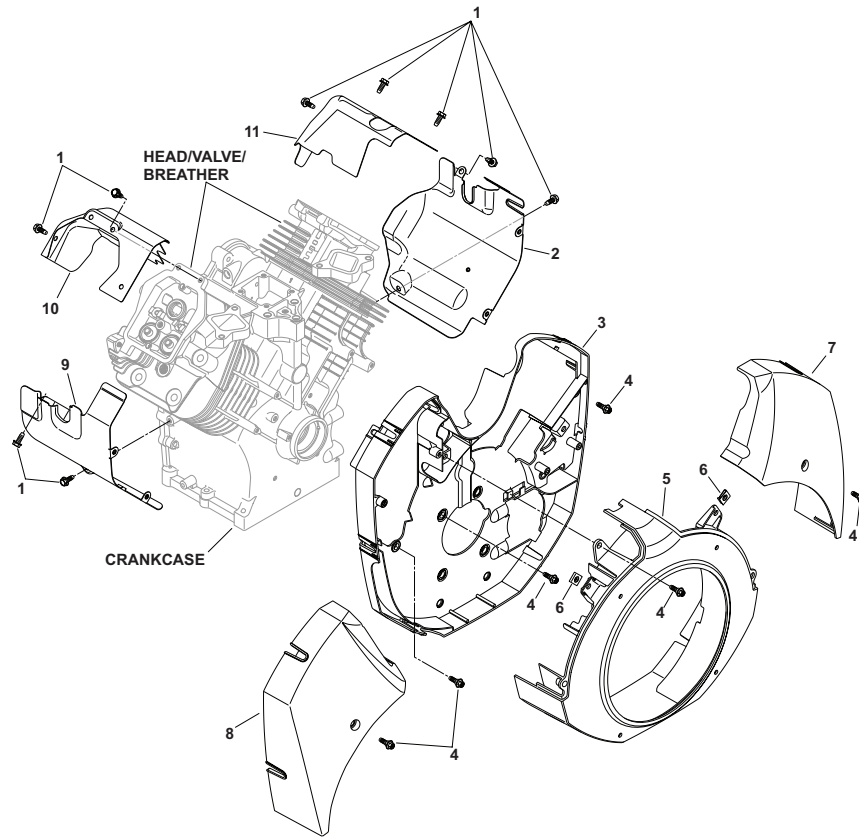


6-24-352

Item	Part Number	Description	Quantity
			Variation 352
1	24 027 195-S	Kit, blower housing assembly (includes items 2 and 3)	1
2	25 100 37-S	Nut, plastic	3
3	24 100 02-S	Nut, plastic	2
4	M-561016-S	Screw, flange thread forming, M5 x 0.8 x 16	1
5	M-545016-S	Screw, flange thread forming, M5 x 0.8 x 16	7
6	M-545020-S	Screw, flange thread forming, M5 x 0.8 x 20	4
7	24 146 59-S	Plate, backing	1
8	24 063 88-S	Baffle, left barrel	1
9	M-645016-S	Screw, flange thread forming, M6 x 1.0 x 16	8
10	24 063 94-S	Baffle, valley #2 side	1
11	M-545010-S	Screw, flange thread forming, M5 x 0.8 x 10	2
12	24 063 93-S	Baffle, valley #1	1
13	24 063 85-S	Baffle, right barrel	1
—	25 154 11-S	Clip, repair (U bolt speed nut) (not shown)	1

Group 6: Blower Housing and Baffles

20RES

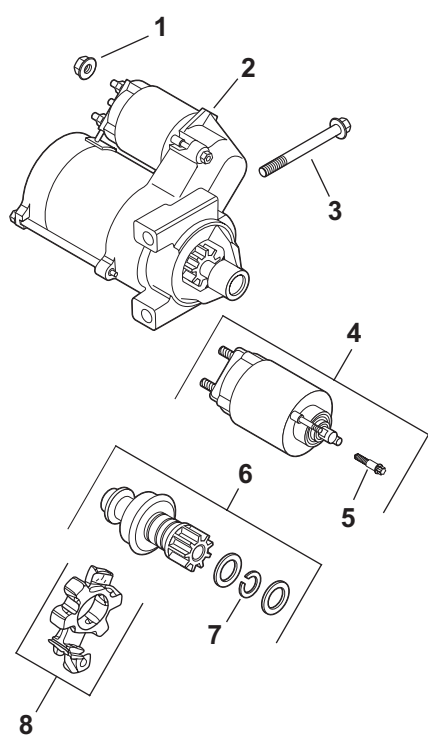


6-62-3

Item	Part Number	Description	Quantity
			Variation
1	M-645016-S	Screw, flg thd frm, M6 x 1.0 x 16	10
2	62 063 03-S	Baffle, cyl barrel #1 side	1
3	62 424 07-S	Shroud, backing	1
4	62 086 10-S	Screw, shd thd frm	18
5	62 027 03-S	Kit, blower housing assembly (includes 41 037 10-S)	1
6	25 154 02-S	Clip, mounting	12
7	62 424 08-S	Shroud, #1 cylinder	1
8	62 424 09-S	Shroud, #2 cylinder	1
9	62 063 04-S	Baffle, cyl barrel #2 side	1
10	62 063 10-S	Baffle, valley #2 side	1
11	62 063 07-S	Baffle, valley #1 side	1
—	41 037 10-S	Nameplate, service (not shown)	1

Group 7: Starter

14RES/20RES

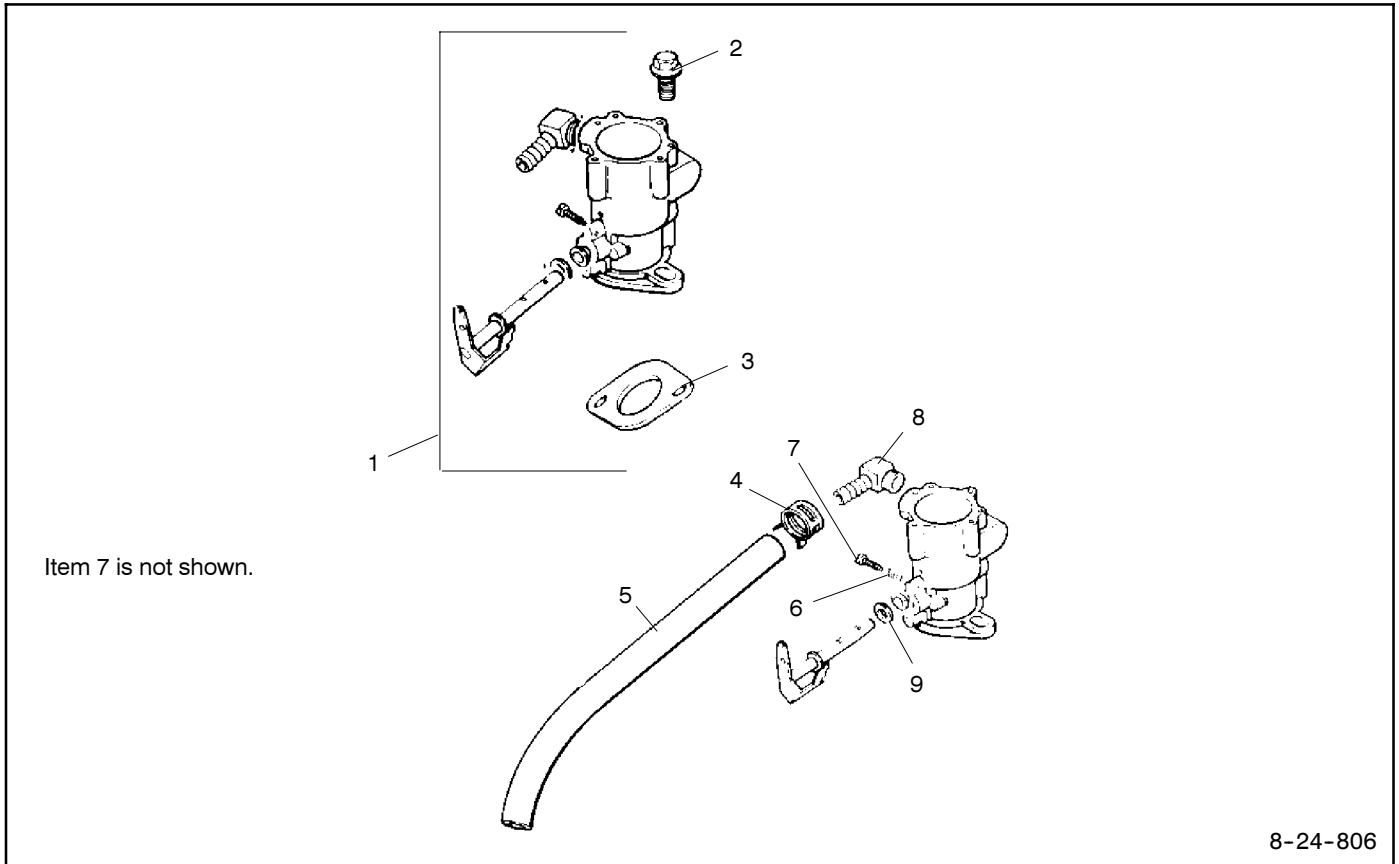


7-24-5
7-62-1

Item	Part Number	Description	Quantity	
			Variation	
			1	5
1	M-841080-S	Nut, flg, M8 x 1.25	1	1
2	25 098 11-S	Starter assembly, solenoid shift (includes items 4-8)	1	1
3	M-851080-S	Screw, flg, M8 x 1.25 x 80	2	2
4	25 435 06-S	Kit, solenoid (includes item 5)	1	1
5	25 086 113-S	Screw, external torx head	3	3
6	25 755 33-S	Kit, starter pinion (includes item 7)	1	1
7	25 141 05-S	Ring, retaining	1	1
8	25 221 01-S	Kit, brush holder	1	1

Group 8: Carburetor

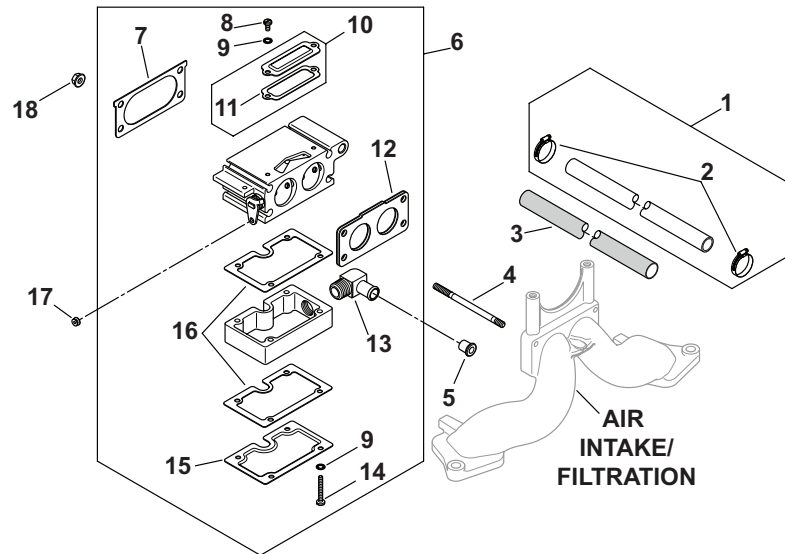
14RES



Item	Part Number	Description	Quantity	
			Variation	
			806	855
1	24 853 49-S	Kit, carburetor w/gaskets	1	1
2	M-851030-S	Screw, flg M8 x 1.25 x 30	2	2
3	24 041 26-S	Gasket, carburetor	1	1
4	25 237 12-S	Clamp, hose	1	1
5	24 353 31	Line, LP fuel	1	
5	24 353 40-S	Line, LP fuel, 29 in.		1
6	232555-S	Spring	1	1
7	232556-S	Screw, special	1	1
8	24 294 23-S	Fitting	1	1
9	X-25-8-S	Washer	1	1
—	25 431 19-S	Sleeve, anti-abrasion (not shown)	1	1
—	46 086 04-S	Screw	2	2

Group 8: Carburetor, continued

20RES

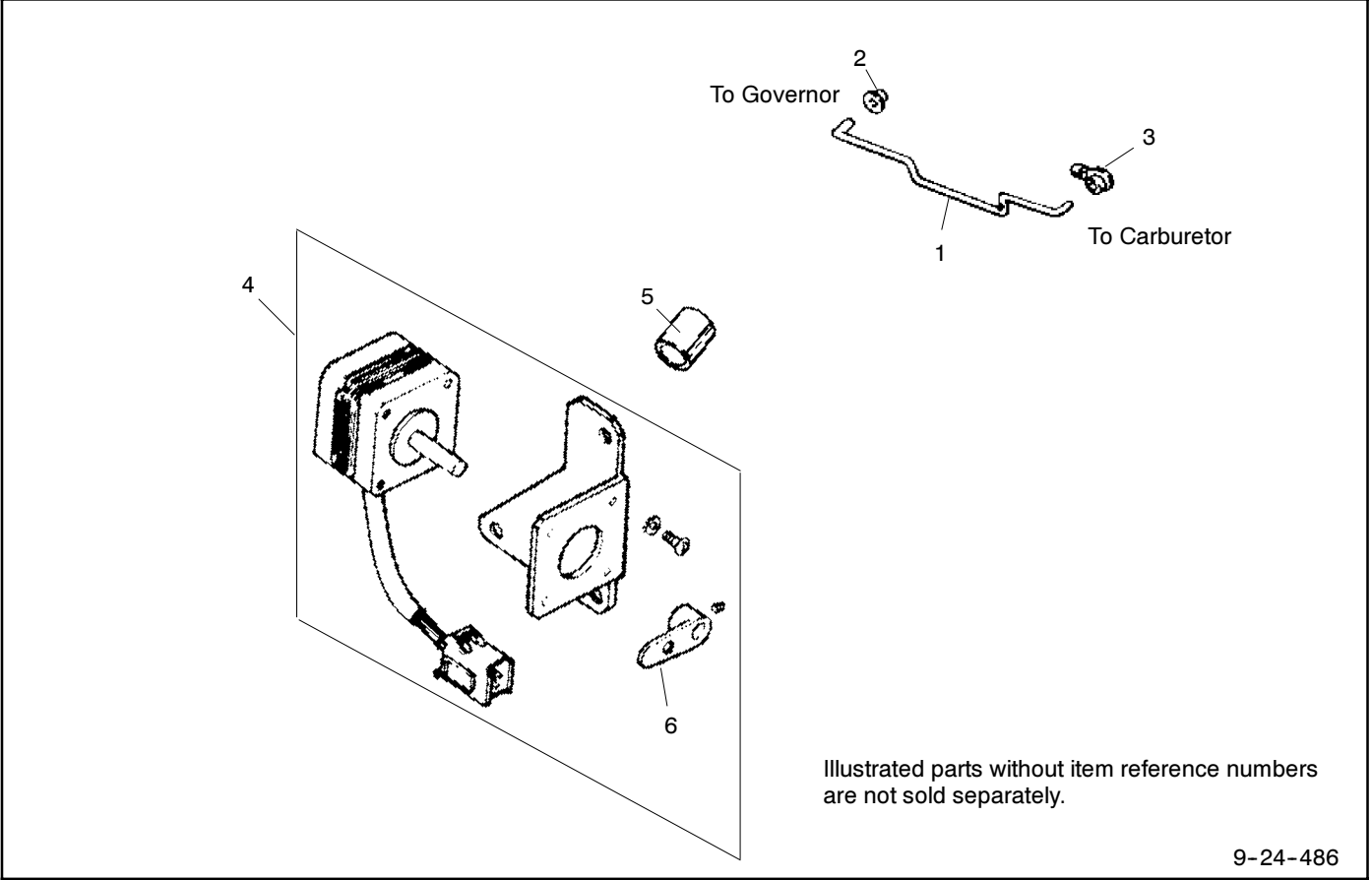


8-62-13

Item	Part Number	Description	Quantity	
			Variation	
			13	16
1	25 353 30-S	Kit, LP fuel line (includes item 2)	1	
1	25 353 34	LP fuel line	1	1
2	25 237 12-S	Clamp, hose	2	2
3	25 431 19-S	Sleeve, anti-abrasion	1	1
4	M-629095-S	Stud, M6 x 1.0 x 96	4	4
5	-	Fitting, restrictor (See Fuel System group)	1	1
6	62 853 29-S	Carburetor, w/gaskets (includes items 7-13)	1	1
7	62 041 29-S	Gasket, air cleaner elbow	1	1
8	25 086 133-S	Screw, slotted pan, M4 x 0.7 x 8	2	2
9	X-22-7-S	Washer, int tooth lock #8	6	6
10	62 096 30-S	Cover, idle circuit	1	1
11	62 041 30-S	Gasket, idle circuit plate	1	1
12	24 041 60-S	Gasket, carburetor	1	1
13	25 294 19-S	Fitting, 90 deg. elbow	1	1
14	25 086 134-S	Screw, slotted pan, M4 x 0.7 x 30	4	4
15	62 096 31-S	Cover, plenum	1	1
16	62 041 31-S	Gasket, plenum-carburetor	2	2
17	45 158 03-S	Bushing	1	1
18	14 100 09	Nut, hex flange lock (M6)	4	4

Group 9: Engine Controls

14RES

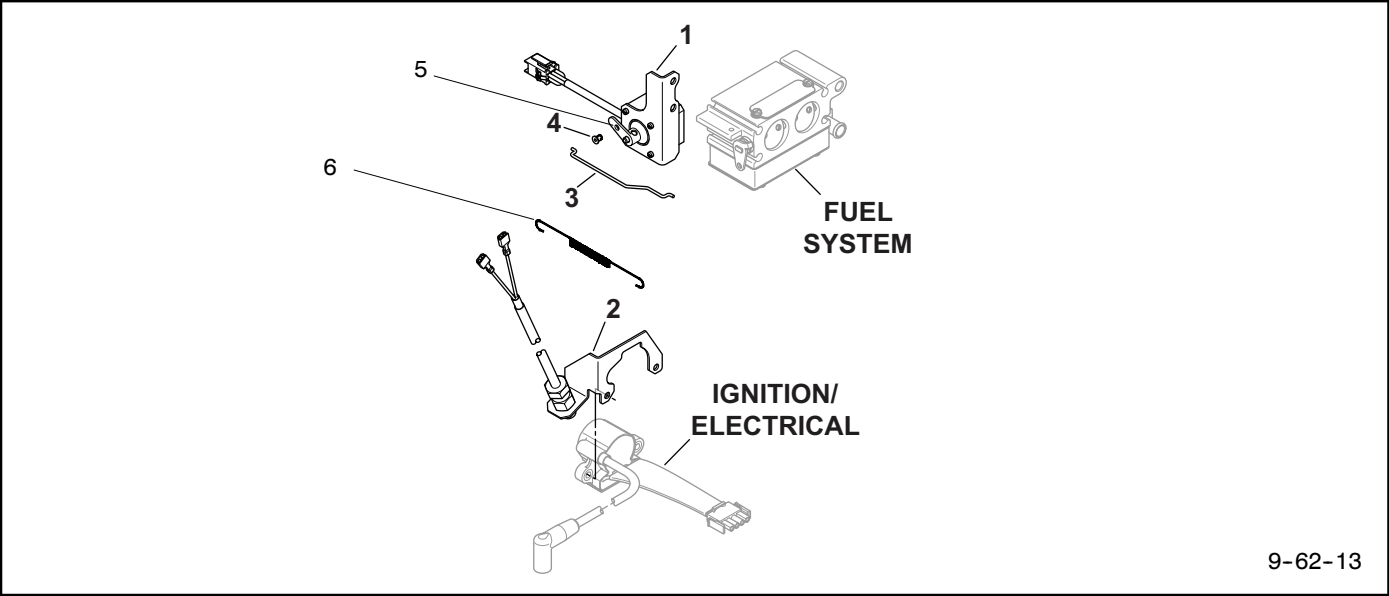


9-24-486

Item	Part Number	Description	Quantity	
			Variation	
			486	513
1	24 079 09-S	Linkage, throttle	1	1
2	25 158 08-S	Bushing, linkage	1	1
3	25 158 11-S	Bushing, throttle linkage	1	1
4	24 310 03-S	Governor (actuator/stepper motor)	1	
4	GM81314	Governor assembly		1
5	25 112 09-S	Spacer	3	3
6	358359	Coupling, stepper motor	1	1

Group 9: Engine Controls, continued

20RES

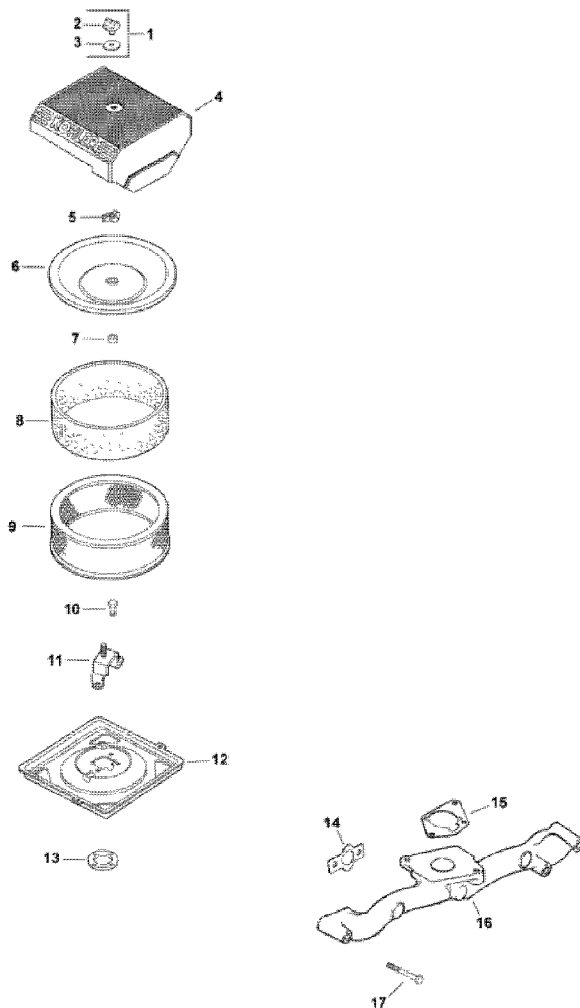


9-62-13

Item	Part Number	Description	Quantity	
			13	44
1	62 310 02-S	Governor assembly (electronic)	1	
1	GM81265	Governor assembly		1
2	62 418 04-S	Sensor assembly, speed	1	1
3	62 079 16-S	Linkage, throttle	1	1
4	25 158 08-S	Bushing, linkage retaining	1	1
5	358358	Coupling, stepper motor	1	1
6	62 089 45-S	Spring, linkage	1	1

Group 10: Air Intake/Filtration

14RES

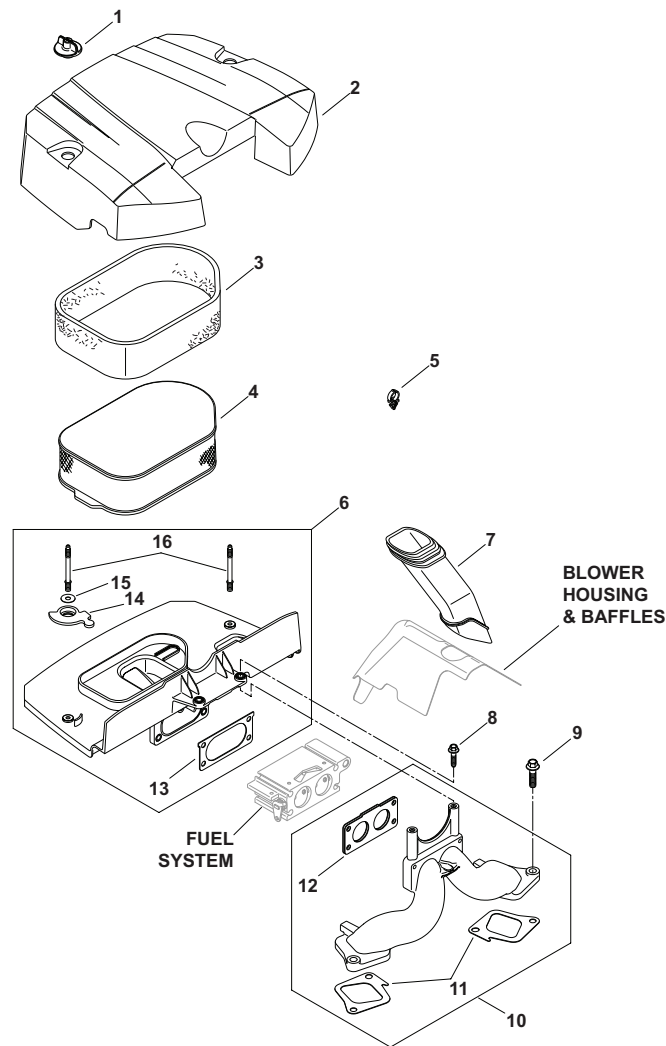


10-24-203

Item	Part Number	Description	Quantity	
			Variation	
			203	371
1	54 755 01-S	Kit, knob w/seal	1	1
2	25 341 04-S	Knob, air cleaner cover	1	1
3	24 153 20-S	O-ring	1	1
4	24 096 67-S	Cover, air cleaner	1	1
5	12 100 01-S	Nut, wing	1	1
6	24 096 01-S	Cover, inner air cleaner	1	1
7	230046-S	Seal	1	1
8	24 083 05-S	Precleaner	1	
9	24 083 09-S	Element, air filter	1	1
10	25 086 84-S	Screw, flange M6 x 1.0 x 55	4	4
11	24 126 74-S	Bracket, air cleaner	1	1
12	24 094 29-S	Base, air cleaner	1	1
13	52 112 12-S	Spacer	1	
13	52 112 12-S	Spacer, air cleaner		1
14	24 041 01-S	Gasket, intake manifold	2	2
15	277093-S	Gasket	2	2
16	24 164 18-S	Manifold, intake	1	1
17	25 086 48-S	Screw, HD 10-32 x 3/4 in.	4	4
—	24 153 27-S	O-ring, intake port	2	2
—	24 041 52-S	Gasket, carburetor	1	1

Group 10: Air Intake/Filtration, continued

20RES

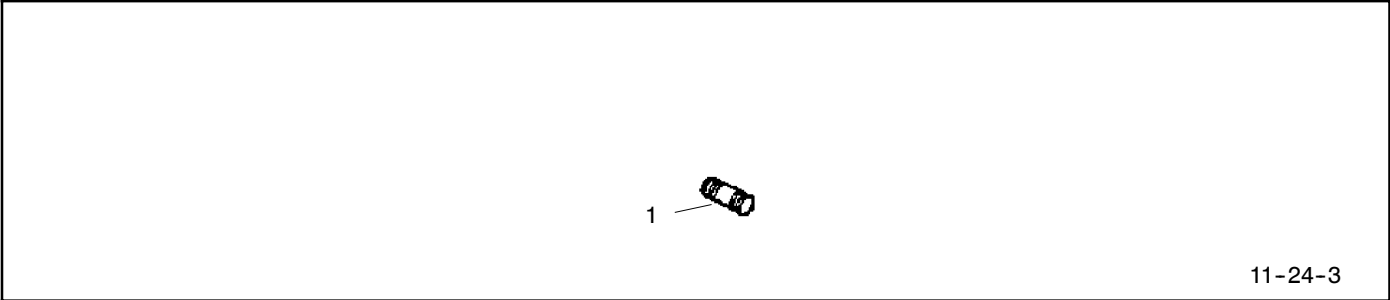


10-62-13

Item	Part Number	Description	Quantity
			Variation
1	25 341 04-S	Knob, cover	13
2	62 096 17-S	Cover, air cleaner	2
3	—	Not used	1
4	62 083 04-S	Element, air filter	1
5	62 154 05-S	Clip, fuel line	1
6	62 094 26-S	Base, air cleaner assembly (includes items 13-16)	1
7	62 123 19-S	Tube, air intake	1
8	25 086 124-S	Screw, flg, M6 x 1.0 x 25	2
9	M-851030-S	Screw, flg, M8 x 1.25 x 30	4
10	62 164 08-S	Kit, intake manifold (includes items 11,12)	1
11	62 041 13-S	Gasket, intake manifold	2
12	24 041 60-S	Gasket, carburetor	1
13	62 041 29-S	Gasket, air cleaner elbow	1
14	-	not used	
15	-	not used	
16	20 072 04-S	Stud, air cleaner base	2

Group 11: Engine Exhaust

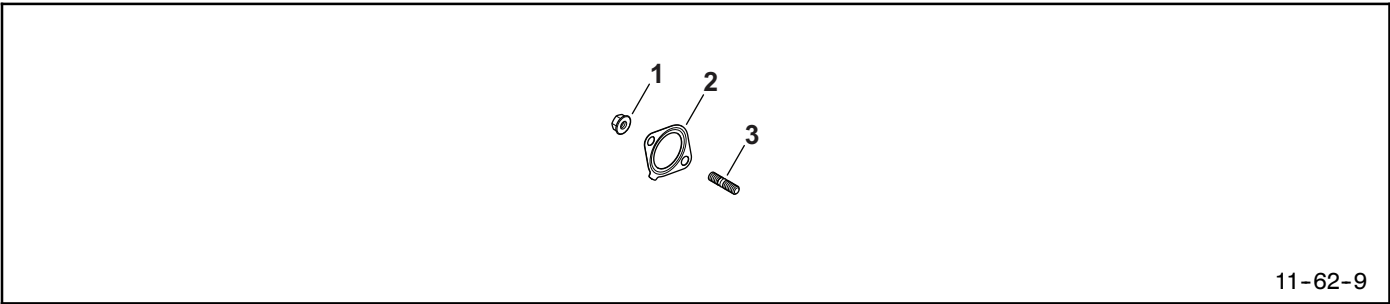
14RES



11-24-3

Item	Part Number	Description	Quantity
			Variation
1	25 072 04-S	Stud, exhaust	3
			4

20RES



11-62-9

Item	Part Number	Description	Quantity
			Variation
1	M-841080-S	Nut, flg, M8 x 1.25	9
2	62 041 14-S	Gasket, exhaust	4
3	25 072 04-S	Stud, M8 x 1.25 x 33	2
			4

Group 12: Engine Decals

Decals are not illustrated.

14RES

Item	Part Number	Description	Quantity	
			Variation	
			570	851
1	25 113 39-S	Decal, clear laminate	1	1
2	25 113 05-S	Decal, oil sentry	1	1
3	62 113 32-S	Decal, CO warning	1	1
4	24 113 25-S	Decal, oil cooler	1	

20RES

Item	Part Number	Description	Quantity	
			Variation	
			7	16
1	25 113 39-S	Decal, clear laminate	1	1
2	25 113 50-S	Decal, Powered by Kohler-white	1	1
3	62 113 24-S	Decal, air cleaner	1	1
4	24 113 25-S	Decal, oil cooler	1	

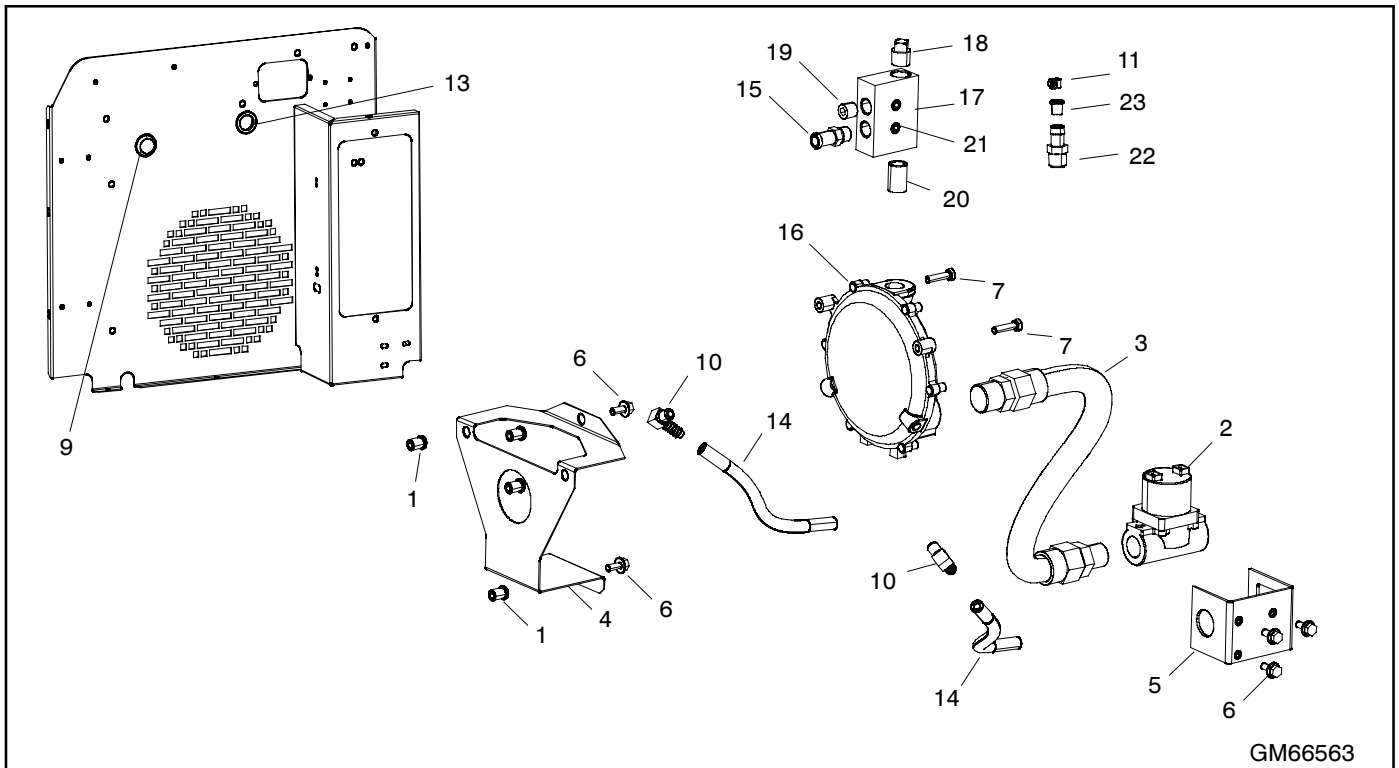
Group 13: Gasket Set

20RES

Gasket set not illustrated.

Item	Part Number	Description	Quantity
			Variation
			1
1	62 755 02-S	Gasket set	1

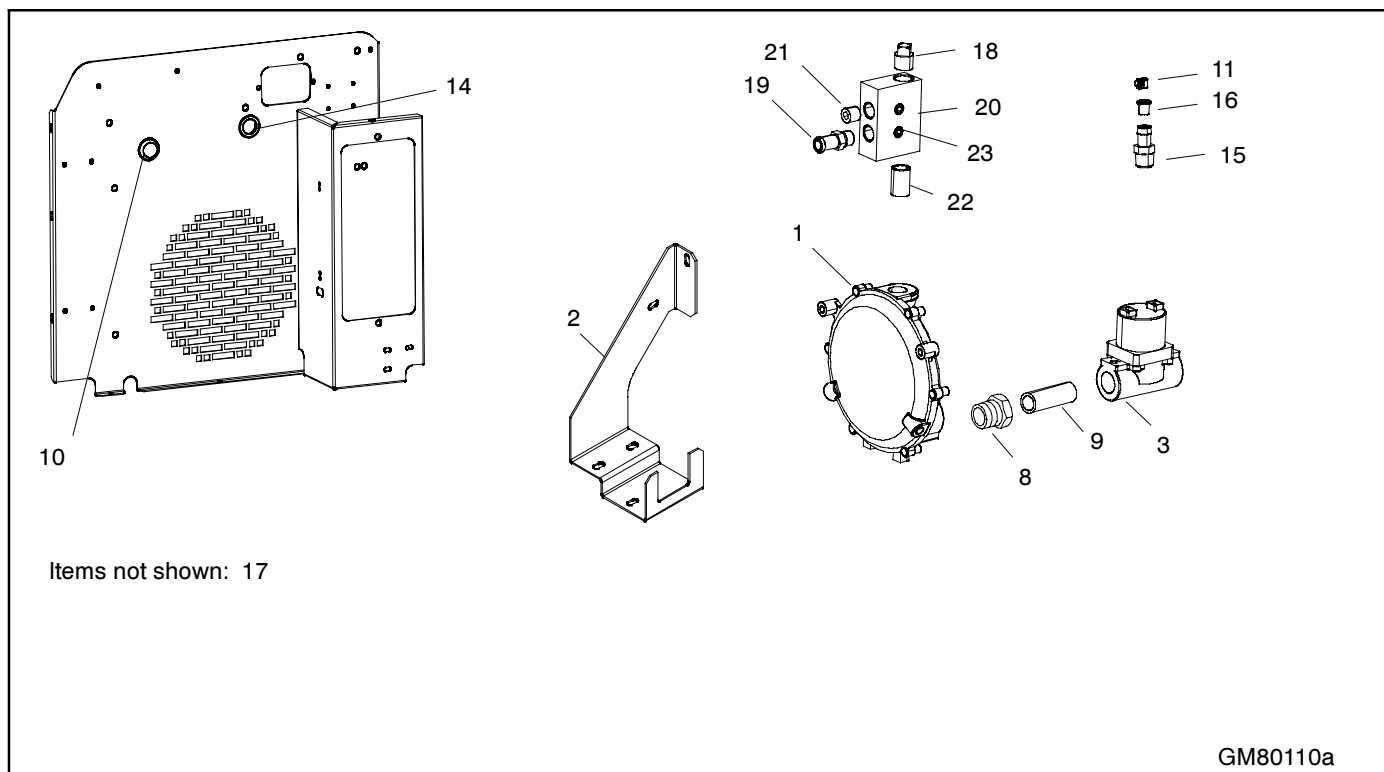
Fuel System



GM66563-MA2, MA3

Item	Part Number	Description	Quantity	
			Variation	
			1	2
1	GM11040-2	Insert, Threaded M6 x 1.0	2	2
2	GM39554	Valve, Gas Shut-Off	1	1
3	GM69857	Line, Flex Fuel Stainless Steel	1	1
4	GM69920	Bracket, Fuel Regulator Mtg.	1	1
5	GM69921	Bracket, Fuel Valve Mtg.	1	1
6	M6921-06014-60	Screw, Hex Cap Flange	5	5
7	M6923-06-83	Nut, hex 6mm	2	2
7	M933-06025-60	Screw, hex cap	2	2
9	X-301-45	Plug, Button, 1.37 (Hole Dia. 1.01)	1	1
10	25 155 38	Connector, hose	2	
11	X-426-3	Clamp, hose, .56/1.06 in.	1	1
13	X-634-28	Bushing	1	
14	GM76024	Tubing, flexible	2	
15	344508	Connector, hose + Vibra Seal		1
16	GM71184	Regulator, Gas	1	
16	X-75-1	Plug, pipe (1/8" nptf) (not shown)	1	
16	A-227531	Regulator, gas		1
17	GM16807	Valve, Fuel Metering		1
18	25 139 57	Plug, pipe (1/8" nptf)		1
19	X-75-51	Plug, pipe (1/4" nptf)		2
20	X-204-9	Pipe (3/8"npt x 1.00")		1
21	X-6219-9	Screw, hex socket set		2
22	25 294 21-S	Fitting, straight	1	
23	62 294 06-S	Fitting, restrictor	1	

Fuel System, continued

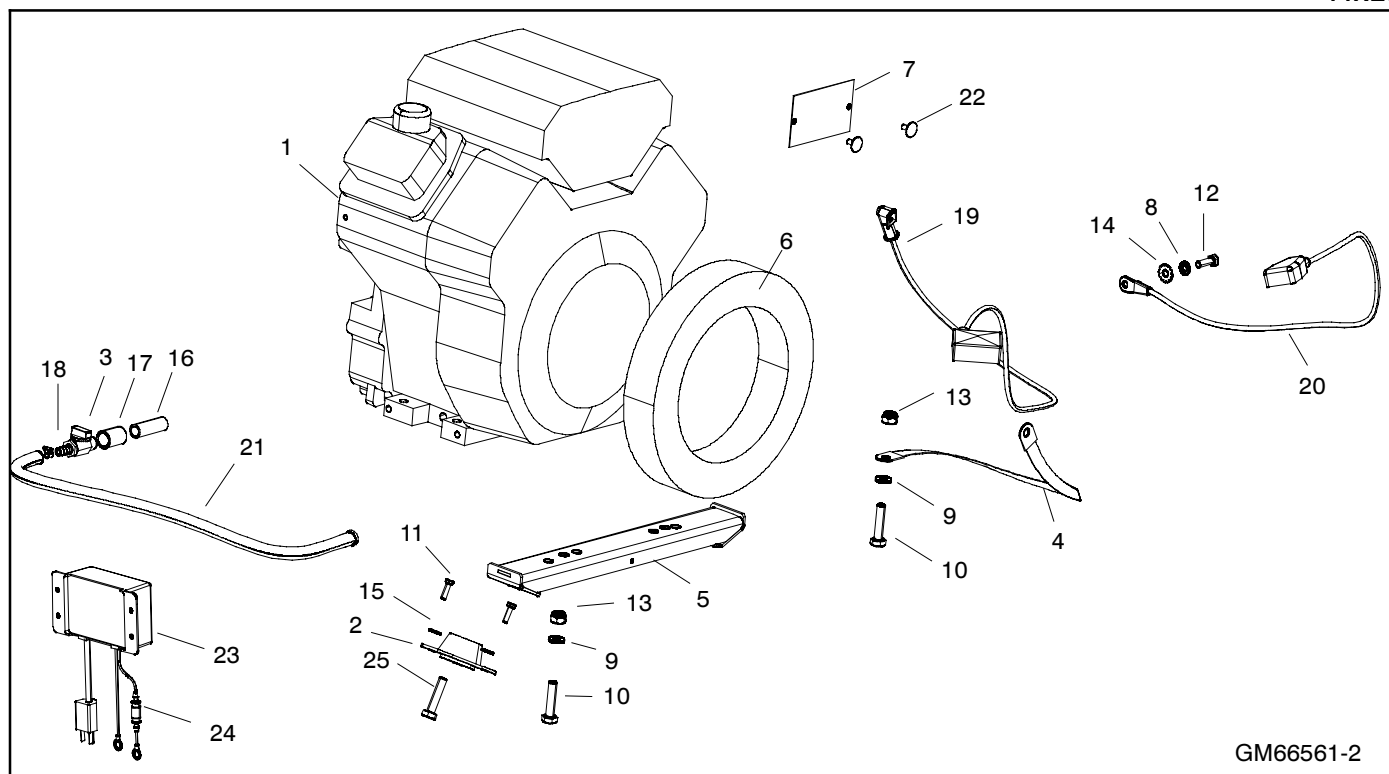


GM80110-GR1, GR2

Item	Part Number	Description	Quantity	
			Variation	
			3	4
1	GM71184	Regulator, Gas	1	
1	A-227531	Regulator, gas		1
2	GM80024	Bracket, Fuel Regulator Mtg.	1	1
3	GM80111	Valve, Gas Shut-Off	1	1
8	X-202-41	Bushing, reducing (1/2 x 3/4"npt)	1	1
9	X-209-2	Pipe (1/2"npt x 1.19")	1	1
10	X-301-45	Plug, Button, 1.37 (Hole Dia. 1.01)	1	1
11	X-426-12	Clamp, hose, .69/1.25 in.	1	1
14	X-634-28	Bushing	1	1
15	25 294 21-S	Fitting, hose connector	1	
16	62 294 06-S	Fitting, restrictor	1	
17	X-75-1	Plug, pipe (1/8" nptf) (not shown)	1	
18	25 139 57	Plug, pipe (1/8" nptf)		1
19	344508	Connector, hose + Vibra Seal		1
20	GM16807	Valve, Fuel Metering		1
21	X-75-51	Plug, pipe (1/4" nptf)		2
22	X-204-9	Pipe (3/8"npt x 1.00")		1
23	X-6219-9	Screw, hex socket set		2

Engine

14RES



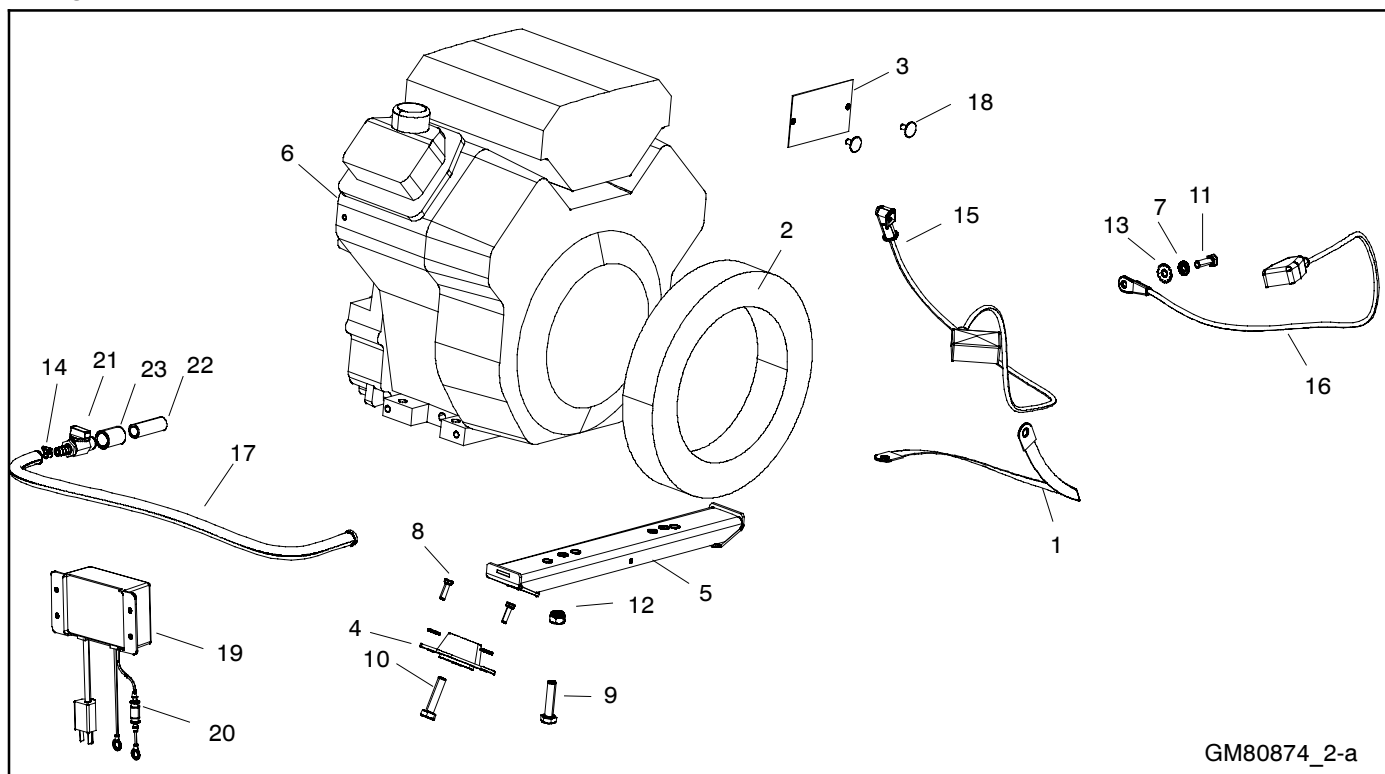
GM66561-2

GM66561-GA2, GA4

Item	Part Number	Description	Quantity	
			Variation	
			2	4
1	PS-CH740-0141	Engine, CH740EP E3 KPS GM70206	1	
1	PS-CH740-0146	Engine, CH740EP E3 KPS GM78173		1
2	GM75548	Vibromount	2	2
3	359653	Valve, oil drain (3/8-18 npt)	1	1
4	GM50449	Strap, Ground	1	1
5	GM78223	Mount, Engine	1	1
6	GM69902	Insulation, Engine Air Inlet	1	1
7	GM69919	Cover, Air Inlet	1	1
8	M125A-08-80	Washer, plain 8.4 ID x 16.0 OD	1	1
9	M125A-10-80	Washer, Plain 10.5 ID x 20.0 OD	2	2
10	M931-10050-60	Screw, hex cap	2	2
11	M6921-06016-60	Screw, hex cap	4	4
12	M933-08025-60	Screw, hex cap	1	1
13	M982-10-80	Nut, hex elastic stop	2	2
14	X-22-14	Washer, lock, .391 ID x .975 in. OD	1	1
15	X-25-40	Washer, plain, .281 ID x .625 in. OD	4	4
16	X-204-6	Pipe, Nipple (3/8" npt x 2.00")	1	1
17	X-216-23	Coupling, pipe (3/8"npsc)	1	1
18	X-426-9	Clamp, hose, .25/.70 in.	1	1
19	X-545-230	Cable, Battery	1	1
20	X-545-231	Cable, Battery	1	1
21	X-612-28	Hose, Oil Proof	1	1
22	X-6340-2	Clip, panel fastener	2	2
23	GM28341	Charger, Battery 12V-6A Float Equal	1	1
24	223316	Fuse, 10A	1	1
25	M933-10030-60	Screw, hex cap	2	2

Engine, continued

14RES



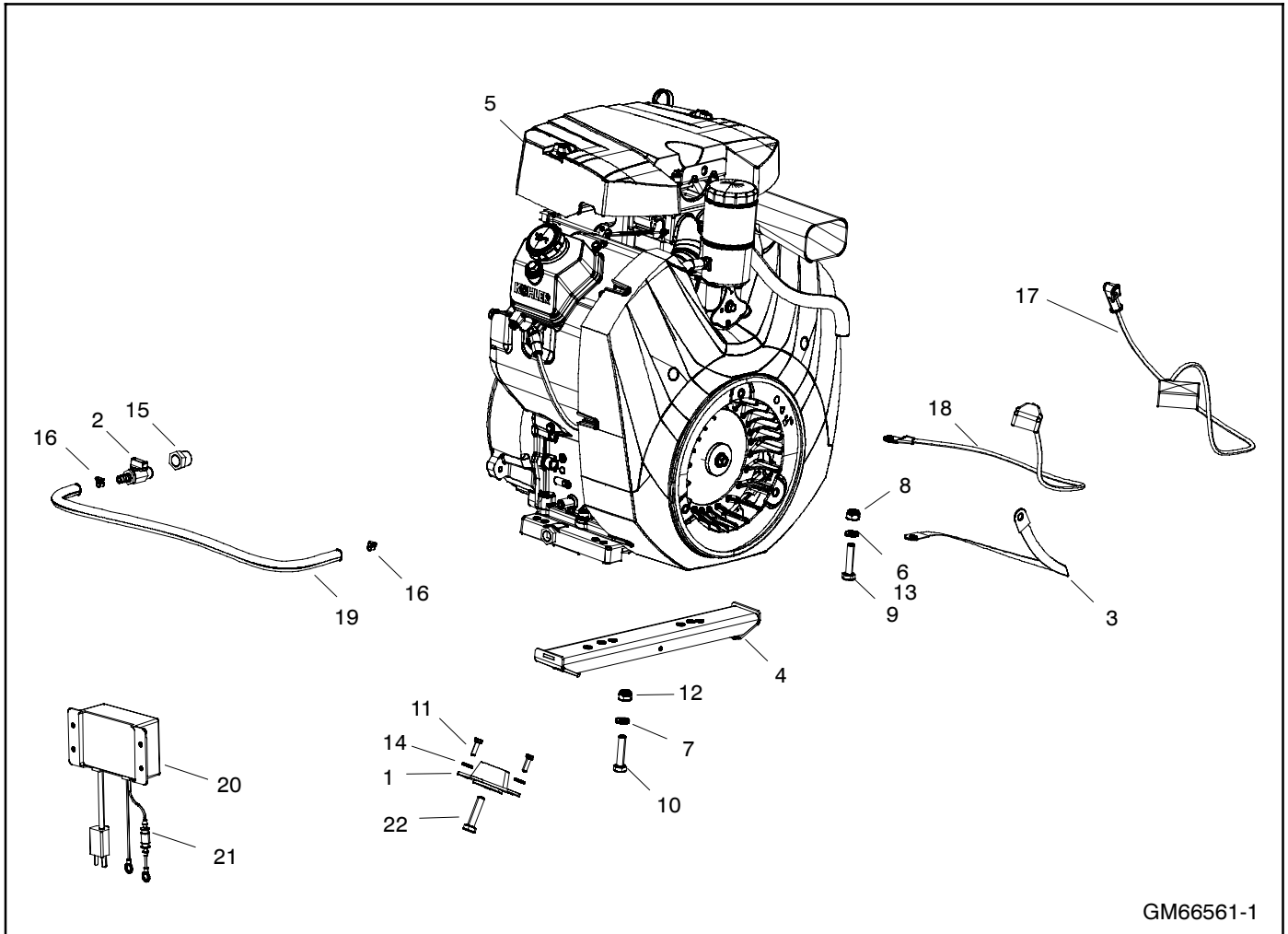
GM80874_2-a

GM80874-GA2

Item	Part Number	Description	Quantity
			Variation
1	GM50449	Strap, Ground	5
2	GM69902	Insulation, Engine Air Inlet	1
3	GM69919	Cover, Air Inlet	1
4	GM75548	Vibromount	2
5	GM78223	Casting, Mounting Foot	1
6	PS-CH740-0148	CH740EP E3 KPS GM80830	1
7	M125A-08-80	Washer, plain 8.4 ID x 16.0 OD	1
8	M6921-06016-60	Screw, hex cap	4
9	M931-10050-60	Screw, hex cap	2
10	M931-10055-60	Screw, hex cap	2
11	M933-08025-60	Screw, hex cap	1
12	M982-10-80	Nut, hex elastic stop	4
13	X-22-14	Washer, lock, .391 ID x .975 in. OD	1
14	X-426-9	Clamp, hose, .25/.70 in.	1
15	X-545-230	Cable, Battery	1
16	X-545-231	Cable, Battery	1
17	X-612-28	Hose, Oil Proof	1
18	X-6340-2	Clip, panel fastener	2
19	GM28341	Charger, Battery 12V-6A Float Equal	1
20	223316	Fuse, 10A	1
21	359653	Valve, oil drain (3/8-18 npt)	1
22	X-204-6	Pipe, Nipple (3/8" npt x 2.00")	1
23	X-216-23	Coupling, pipe (3/8"npvc)	1

Engine, continued

20RES



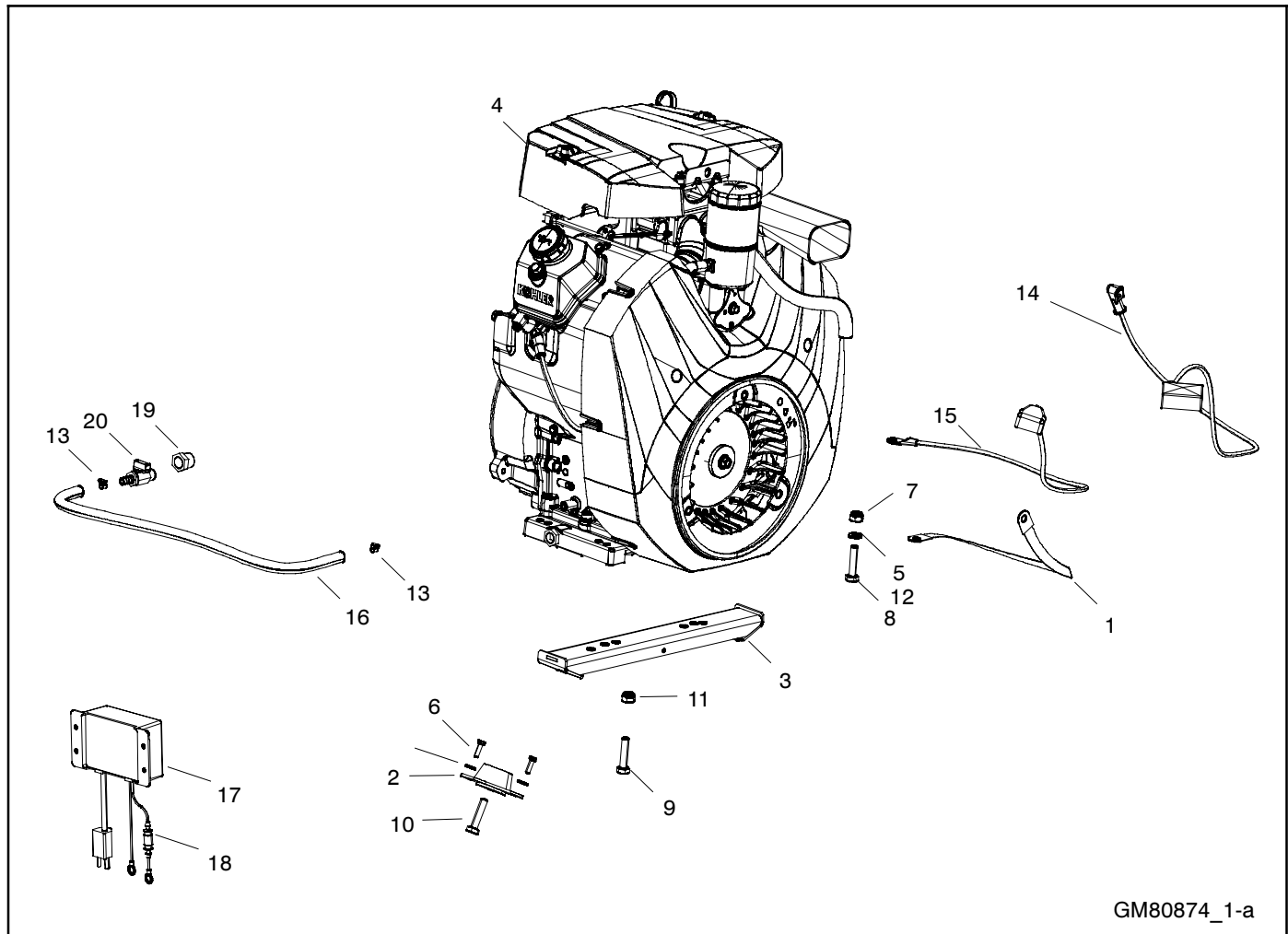
GM66561-1

GM66561-GA1, GA3

Item	Part Number	Description	Quantity	
			Variation	
			1	3
1	GM75548	Vibromount	2	2
2	359653	Valve, oil drain (3/8-18 npt)	1	1
3	GM50449	Strap, Ground	1	1
4	GM78223	Mount, Engine	1	1
5	PS-CH1000-0015	Engine, CH1000EP E3 KPS - GM65988	1	
5	PS-CH1000-0017	Engine, CH1000EP E3 KPS - GM78172		1
6	M125A-08-80	Washer, Plain 8.4 ID x 16.0 OD	1	1
7	M125A-10-80	Washer, Plain 10.5 ID x 20.0 OD	2	2
8	M6923-08-80	Nut, Hex 8mm	1	1
9	M931-08050-60	Screw, hex cap	1	1
10	M931-10050-60	Screw, hex cap	2	2
11	M6921-06016-60	Screw, hex cap	4	4
12	M982-10-80	Nut, hex elastic stop	2	2
13	X-22-14	Washer, lock, .391 ID x .975 in. OD	2	2
15	X-202-28	Bushing, reducing (3/8 x 1/2"npt)	1	1
16	X-426-9	Clamp, hose, .25/.70 in.	2	2
17	X-545-230	Cable, Battery	1	1
18	X-545-231	Cable, Battery	1	1
19	X-612-28	Hose, Oil Proof	1	1
20	GM28341	Charger, Battery 12V-6A Float Equal	1	1
21	223316	Fuse, 10A	1	1
22	M933-10030-60	Screw, hex cap	2	2

Engine, continued

20RES



GM80874_1-a

GM80874-GA1

Item	Part Number	Description	Quantity
			Variation
1	GM50449	Strap, Ground	6
2	GM75548	Vibromount	1
3	GM78223	Casting, Mounting Foot	2
4	PS-CH1000-2021	Engine, CH1000EP E3 KPS - GM80829	1
5	M125A-08-80	Washer, Plain 8.4 ID x 16.0 OD	1
6	M6921-06016-60	Screw, hex cap	4
7	M6923-08-80	Nut, Hex 8mm	1
8	M931-08050-60	Screw, hex cap	1
9	M931-10050-60	Screw, hex cap	2
10	M931-10055-60	Screw, hex cap	2
11	M982-10-80	Nut, hex elastic stop	4
12	X-22-14	Washer, lock, .391 ID x .975 in. OD	2
13	X-426-9	Clamp, hose, .25/.70 in.	2
14	X-545-230	Cable, Battery	1
15	X-545-231	Cable, Battery	1
16	X-612-28	Hose, Oil Proof	1
17	GM28341	Charger, Battery 12V-6A Float Equal	1
18	223316	Fuse, 10A	1
19	X-202-28	Bushing, reducing (3/8 x 1/2"npt)	1
20	359653	Valve, oil drain (3/8-18 npt)	1

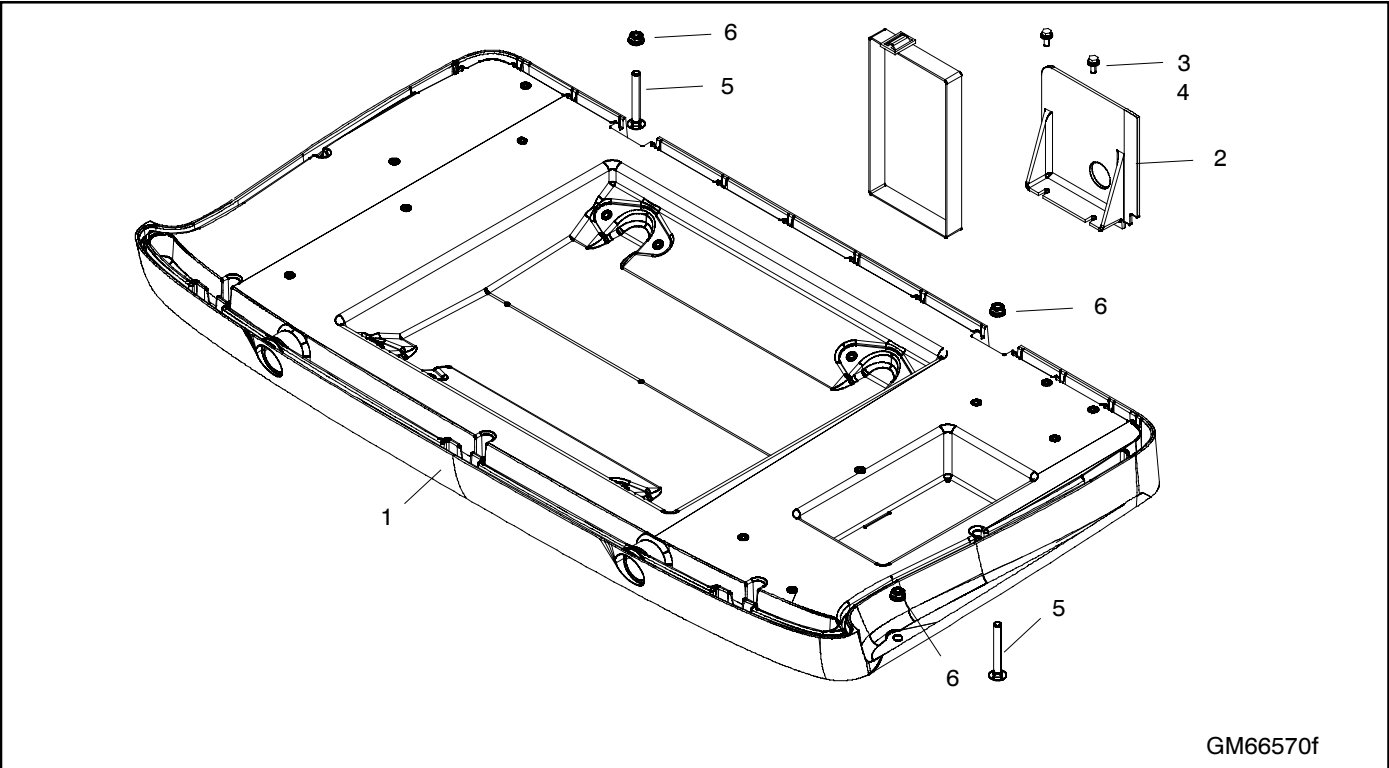
Nameplate and Decals

Nameplate and decals are not illustrated.

GM75547-MA1, GR1

Item	Part Number	Description	Quantity
			Variation
1	255882	Decal, caution stdby svc connect	1
2	239789	Decal, notice, neutral bonded to frame	1
3	GM60175	Decal, warning non gfci outlet	1
4	249808	Decal, warning rotating parts	1
5	GM29924	Decal, notice, fuel connection	1
6	294520	Decal, danger, high voltage	1
7	224233	Decal, 1-800 number	1
8	GM47407	Decal, fuel type	1
9	GM75580	Decal, ROC fault codes	1
10	GM53084	Decal, power breaker	1
11	249809	Decal, caution hot engine	2
12	257438	Decal, danger moving rotor	1
13	GM75579	Decal, Kohler logo	1
14	GM75728	Decal, fuel type	1
15	GM15299	Decal, rainproof enclosure	1
16	GM81763	Label, Warning	1
17	GM20172	Decal, Unbalance Load	1

Skid

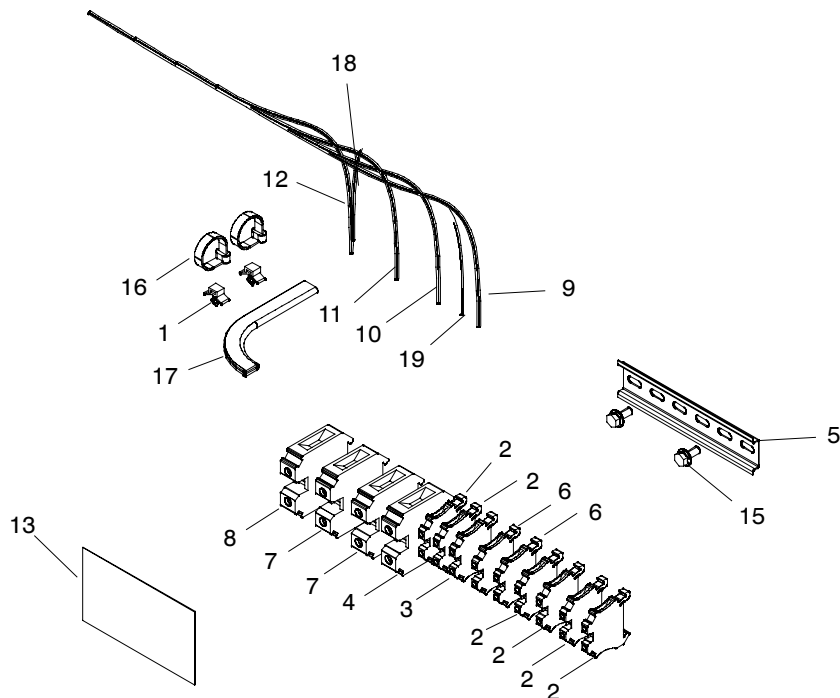


GM66570f

GM66570-MA1, GR1

Item	Part Number	Description	Quantity
			Variation
1	GM66985	Enclosure, Base	1
2	GM69846	Enclosure, Wire Access Panel	1
3	M125A-06-80	Washer, Plain	2
4	M6921-06014-60	Screw, Hex Cap Flange	2
5	PNP-2003-30	Bolt, carriage (3/8-16 x 3.00")	4
6	X-6210-9	Nut, flange spiralock, 3/8-16	4
	GM61432	Strap, Poly Battery	1

Customer Connection (Terminal Block)

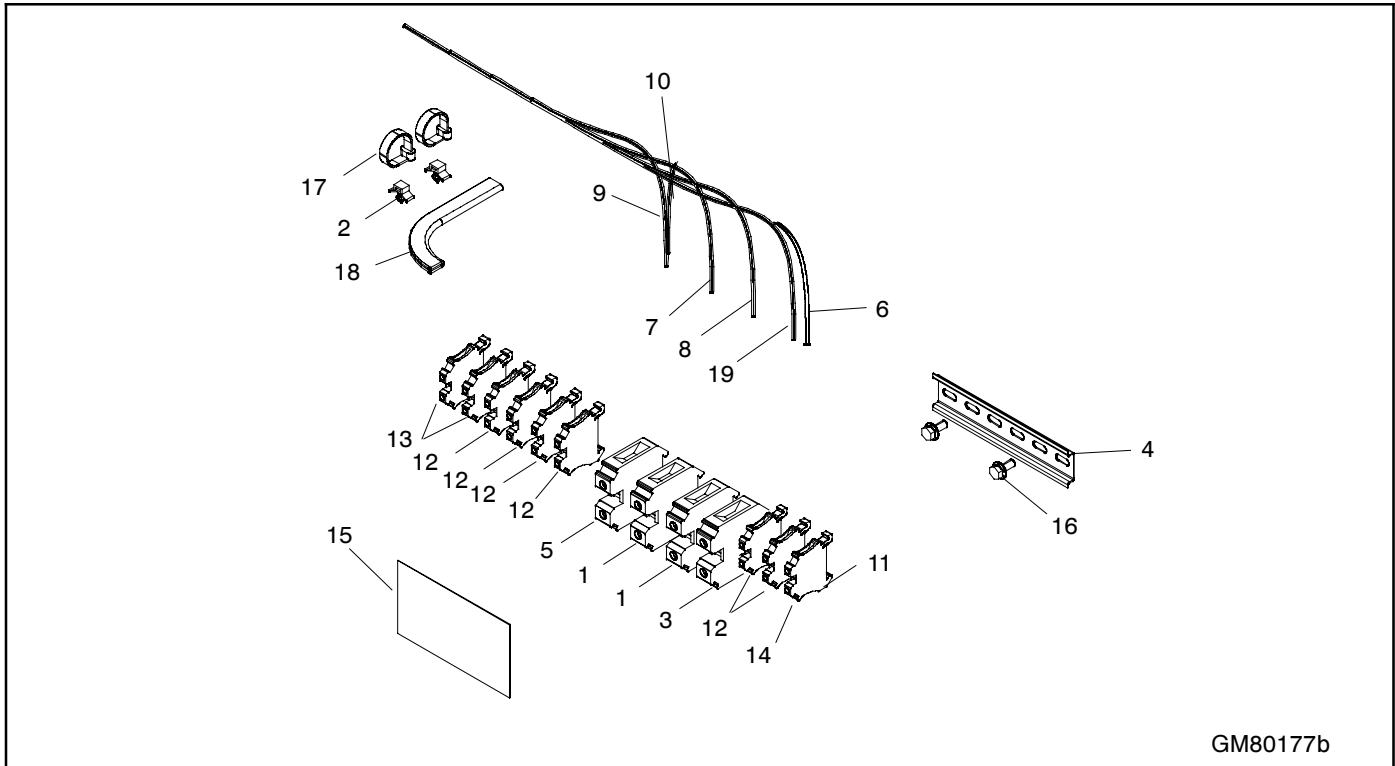


GM66565b

GM66565-MA1, MA2

Item	Part Number	Description	Quantity	
			1	2
1	361567	Base, tie wrap snapin	2	2
2	GB31613529701	Block, Terminal	6	2
2	GM19117	Block, Terminal		6
3	GB31613529703	Block, Terminal	1	
3	GM79119	Block, Terminal		1
4	GB31613529803	Block, Terminal	1	1
5	GM47488	Rail, Din	1	1
6	GM69858	Block, Terminal	2	
6	GM79118	Block, Terminal		2
7	GM69859	Block, Terminal	2	2
8	GM69860	Block, Terminal	1	1
9	GM69982	Lead, Customer Connection	1	1
10	GM69983	Lead, Customer Connection	1	1
11	GM69984	Lead, Customer Connection	1	1
12	GM69985	Lead, Customer Connection	1	1
13	GM73517	Decal, Terminal Block	1	
13	GM74353	Decal, Terminal Block		1
15	M6921-06016-60	Screw, Hex Cap Flange	2	2
16	X-468-1	Cable Tie	2	2
17	X-6047-41	Channel, "U"	1	1
18	GM75874	Lead, jumper	1	1
19	GM69986	Lead, Customer Connection		1

Customer Connection (Terminal Block), continued

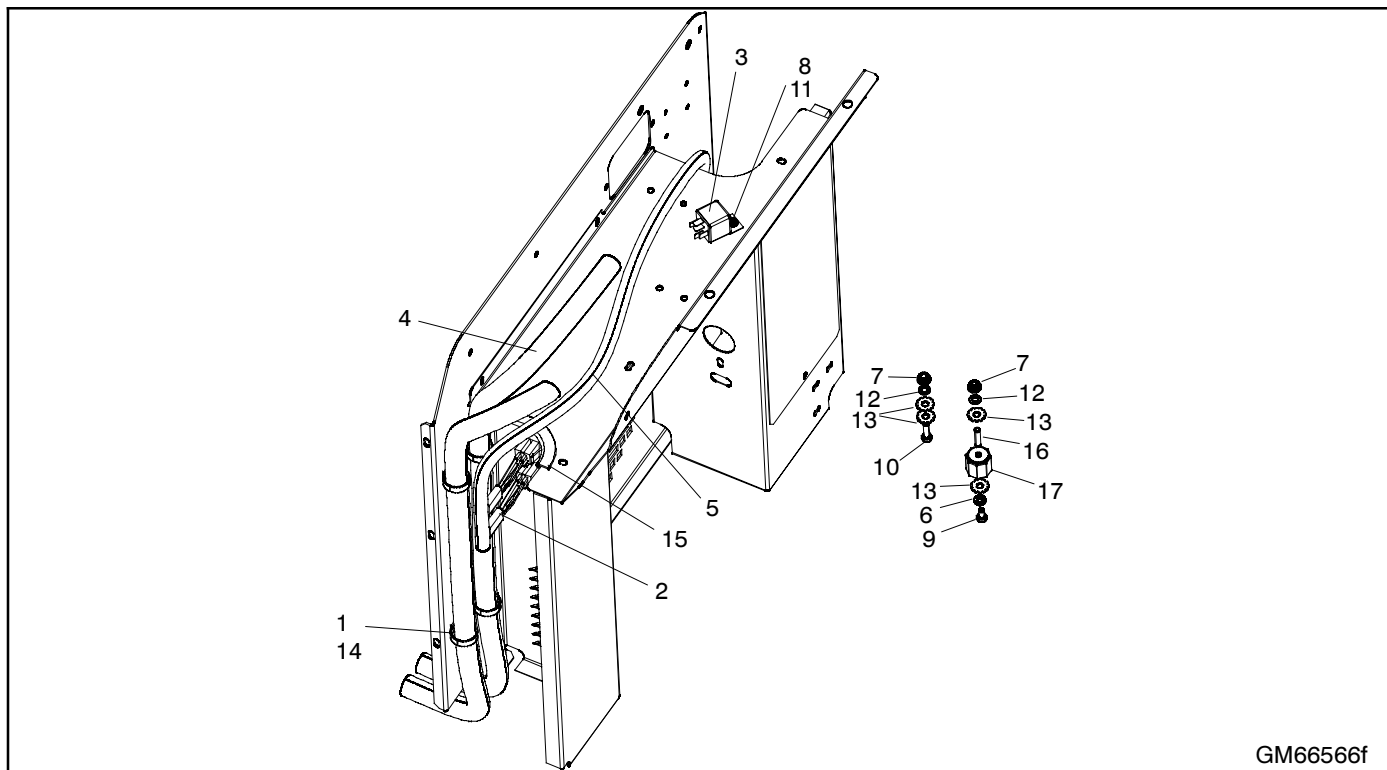


GM80177b

GM80177-GR3, GR4

Item	Part Number	Description	Quantity Variation	
			3	4
1	GM69859	Block, Terminal	2	3
2	361567	Base, tie wrap snapin	2	2
3	GB31613529803	Block, Terminal	1	1
4	GM47488	Rail, Din	1	1
5	GM69860	Block, Terminal	1	1
6	GM69982	Lead, Customer Connection	1	1
7	GM69983	Lead, Customer Connection	1	1
8	GM69984	Lead, Customer Connection	1	1
9	GM69985	Lead, Customer Connection	1	1
10	GM75874	Lead, jumper	1	1
11	GM79116	Plate, End	1	1
12	GM79117	Block, Terminal	6	6
13	GM79118	Block, Terminal	2	2
14	GM79119	Block, Terminal	1	1
15	GM80087	Decal, Terminal Block	1	
15	GM80088	Decal, Terminal Block		1
16	GM78761-1	Screw, Sheetmetal	2	2
17	X-468-1	Cable Tie	2	2
18	X-6047-41	Channel, "U"	1	1
19	GM69986	Lead, Customer Connection		1

Harness

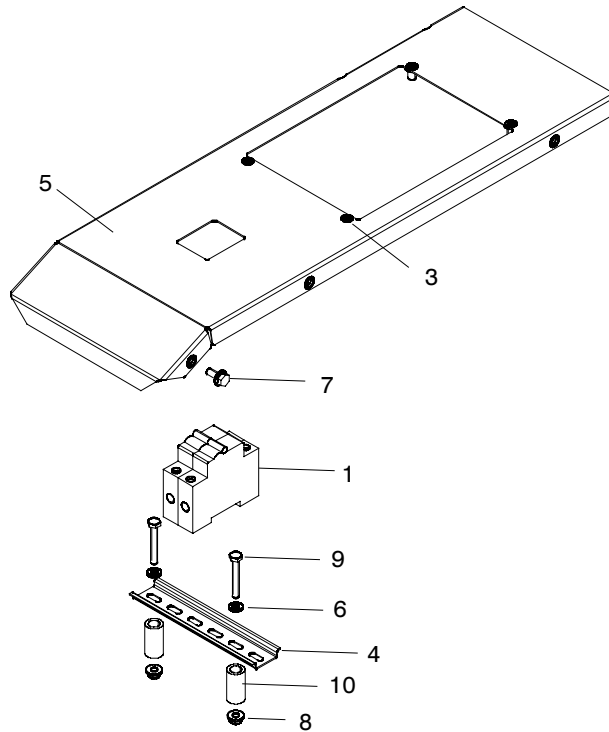


GM66566f

GM66566-MA1, GR1

Item	Part Number	Description	Quantity	
			Variation	
			1	2
1	361567	Base, tie wrap snapin	4	4
2	GM48108	Harness, Pigtail Customer Connection	2	2
3	GM49746	Relay, 12 VDC	1	1
4	GM64280	Harness, Engine	1	
4	GM79123	Harness, Engine		1
5	GM73514	Harness, Wiring Receptacle	1	
5	GM79124	Harness, Wiring Receptacle		1
6	M125A-06-80	Washer, Plain	1	1
7	M6923-06-83	Nut, Hex 6mm	2	2
8	M7985A-05012-20	Screw, pan head mach.	1	1
9	M933-06010-60	Screw, hex cap	1	1
10	M933-06020-60	Screw, hex cap	1	1
11	M982-05-60	Nut, hex elastic stop, 5mm	1	1
12	X-22-11	Washer, lock, .262 ID x .469 OD	2	2
13	X-22-12	Washer, lock, .262 ID x .743 in. OD	4	4
14	X-468-1	Cable Tie	4	4
15	X-6047-41	Channel, "U"	1	1
16	X-6054-23	Stud (Metric)	1	1
17	X-6128-35	Insulator, Standoff	1	1

Circuit Breaker

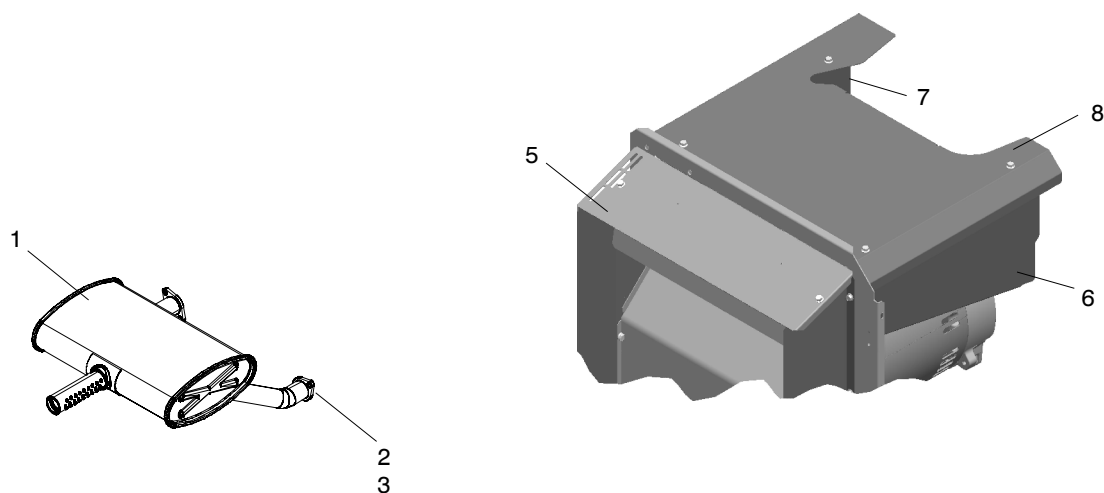


GM66567h

GM66567-MA1, MA2, MA3, MA4, MA5, MA6, MA11, MA12

Item	Part Number	Description	Quantity							
			Variation							
			1	2	3	4	6	11	12	
1	GM75545	Breaker, Circuit 70 amp			1		1			
1	GM28792	Breaker, Circuit 125 amp						1		
1	GM42030	Breaker, Circuit 50 amp	1	1						
1	GM77390	Breaker, Circuit 100 amp				1				1
3	GM11040-6	Insert, Threaded, M5-0.8	4	4	4	4	4	4	4	4
4	GM47488	Rail, Din	1	1	1		1	1		
4	GM77519	Bracket, Circuit Breaker Mtg. (not shown)				1				1
5	GM69748-S	Panel, Controller Mtg.	1				1	1		
5	GM81660-S	Panel, Controller Mtg.		1	1					
5	GM81661-S	Panel, Controller Mtg.				1				
5	GM77392-S	Panel, Controller Mtg.								1
6	M125A-06-80	Washer, Plain	2	2	2		2	2		
6	M125A-05-80	Washer, Plain				2				2
7	GM78761-1	Screw, Sheetmetal	3	3	3	3	3	3	3	3
8	M6923-06-83	Nut, Hex 6mm	2	2	2	2	2	2	2	2
8	M934-05-50	Nut, Hex 5mm				2				2
9	M933-06040-60	Screw, hex cap	2	2	2		2	2		
9	M7985A-05016-20	Screw, pan head machine				2				2
10	X-400-218	Spacer, .406 ID x .625 OD x 1.23 in.	2	2	2		2	2		

Exhaust



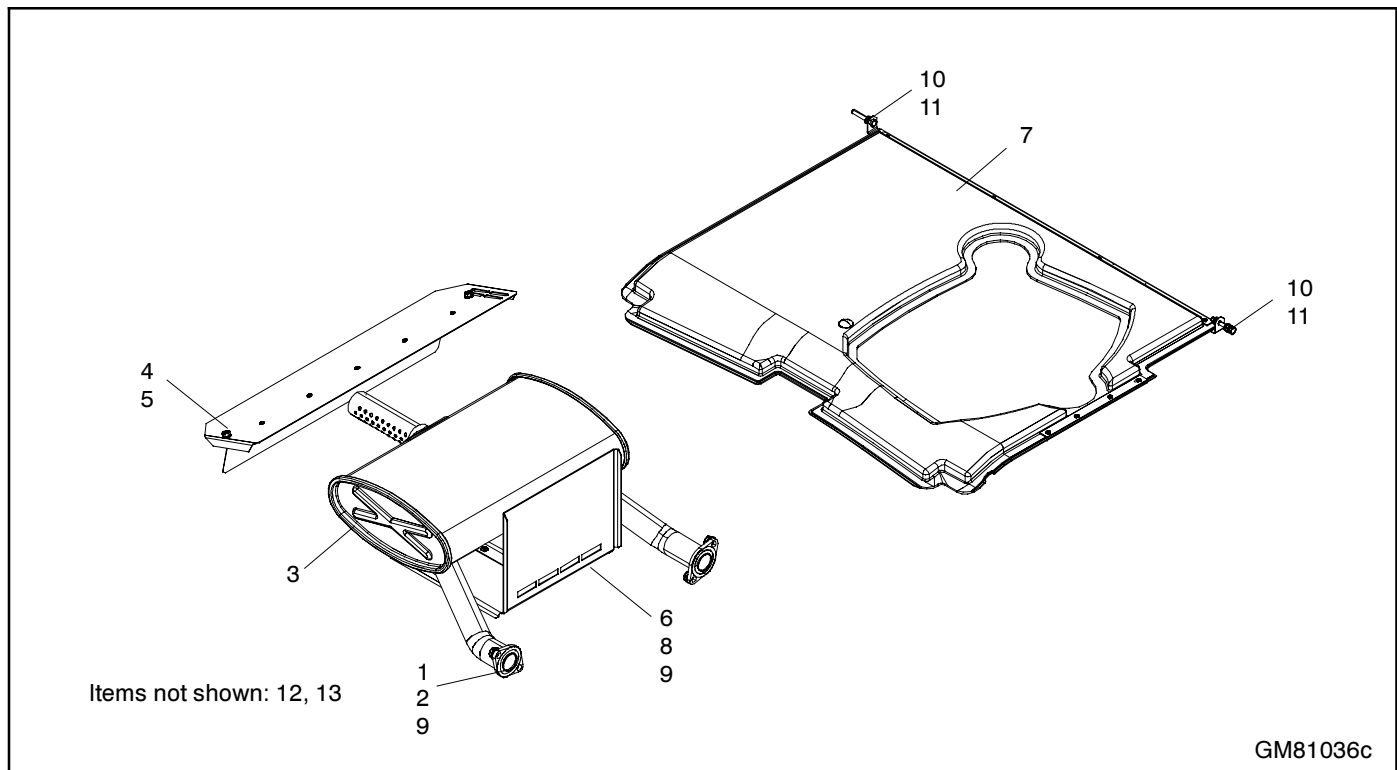
Items not shown: 4, 9, 10, 11

GM66564

GM66564-MA1, MA2, MA3, MA4

Item	Part Number	Description	Quantity			
			Variation			
			1	2	3	4
1	GM74598	Muffler	1		1	
1	GM74908	Muffler		1		1
2	62 041 14-S	Gasket, Exhaust	2		2	
2	24 041 49-S	Gasket, Exhaust		2		2
3	62 605 07-S	Liner, Exhaust Port	2	2	2	2
4	GM11040-2	Insert, Threaded M6 x 1.0	5	5	5	5
5	GM74979	Duct, Exhaust Top	1	1		
5	GM81642	Duct, Exhaust Top			1	1
6	GM75672	Duct, Exhaust Lower (RH)	1	1		
6	GM81666	Duct, Exhaust Lower (RH)			1	1
7	GM75673	Duct, Exhaust Lower (LH)	1	1		
7	GM81667	Duct, Exhaust Lower (LH)			1	1
8	GM75674	Cover, Exhaust duct	1			
8	GM75675	Cover, Exhaust duct		1		
8	GM81668	Cover, Exhaust duct			1	
8	GM81669	Cover, Exhaust duct				1
9	M6921-06014-60	Screw, Hex Cap Flange	11	11		
9	GM78761-1	Screw, Sheetmetal			11	11
10	M6921-08020-60	Screw, Hex Flange M8 x 20	2	2	2	2
11	M6923-08-80	Nut, Hex 8mm	6	6	6	6

Exhaust, continued

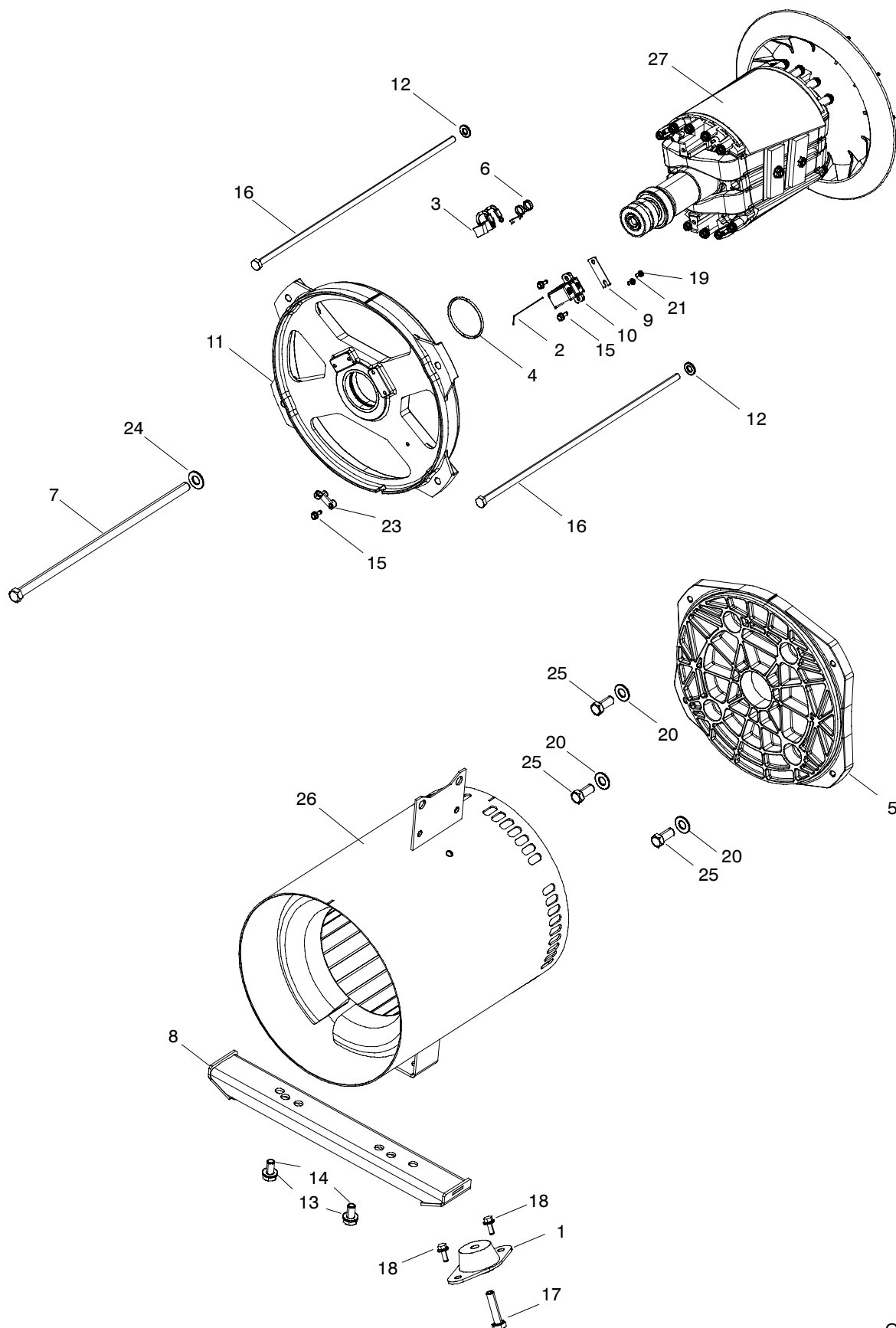


GM81036-GR1, GR2

Item	Part Number	Description	Quantity	
			Variation	
			5	6
1	62 041 14-S	Gasket, Exhaust	2	
1	24 041 49-S	Gasket, Exhaust		2
2	62 605 07-S	Liner, Exhaust Port	2	2
3	GM74598	Muffler	1	
3	GM74908	Muffler		1
4	GM78761-1	Screw, Sheetmetal	2	2
5	GM81642	Duct, Exhaust Top	1	1
6	GM84034	Shield, Heat	1	1
7	GM84044	Cover Assembly, Engine 20RESA	1	
7	GM84045	Cover Assembly, Engine 14RESA		1
8	M6921-08020-60	Screw, Hex Flange M8 x 20	2	2
9	M6923-08-80	Nut, Hex 8mm	6	6
10	M933-06040-60	Screw, Hex Cap	2	2
11	M982-06-80	Nut, hex elastic stop, 6MM	3	3
12	358224	Plug, water		1
13	358306	Gasket		1

Notes

Alternator



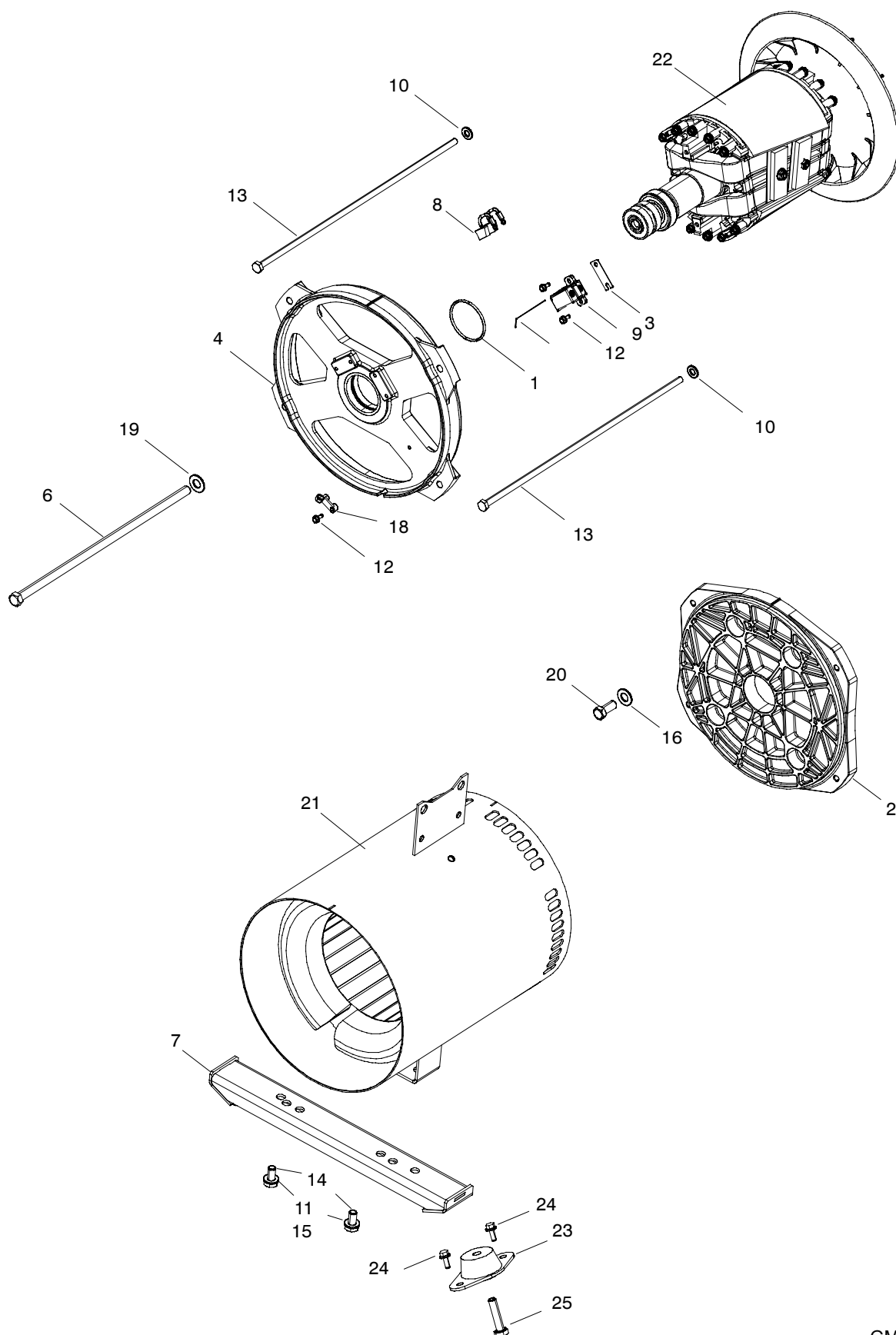
GM67344

Alternator

GM67344-MA1, GM67345-MA1

Item	Part Number	Description	Quantity	
			Variation	
			2	3
1	GM75725	Vibromount	2	2
2	238247	Retainer, wire	1	1
3	239282	Brush	2	2
4	256466	O-Ring (2.050" ID)	1	1
5	GM60283	Adapter, Alternator	1	
6	GM60538	Spring	2	2
7	GM76192	Bolt, Armature Thru	1	
7	GM62982	Bolt, Armature Thru		1
8	GM62986	Mount, Engine	1	1
9	GM62996	Shim, Brush Holder	1	1
10	GM62997	Holder, Brush	1	1
11	GM66767	Bracket, End	1	1
12	M125A-08-80	Washer, Plain 8.4 ID x 16.0 OD	4	4
13	M125A-10-80	Washer, Plain 10.5 ID x 20.0 OD	2	2
14	M6921-06016-60	Screw, Hex Flange M6x16mm flly thrd js500	4	4
15	M7500D-04016-83	Screw, Metric Thread Forming 16mm	3	3
16	M931-08385-60	Screw, Hex Cap (Metric)	4	4
17	M933-10025-60	Screw, hex cap	2	2
18	M6921-06016-60	Screw, hex cap	4	4
19	X-22-6	Washer, lock, .146 ID x .285 in. OD	2	2
20	X-25-34	Washer, plain, .469 ID x .922 in. OD	4	
21	X-49-1	Screw, Machine	2	2
22	X-468-1	Cable Tie	2	
23	X-468-3	Cable tie, nylon	1	
24	X-801-6	Washer, hardened, .469 ID x .922 in. OD	1	1
25	X-6024-2	Bolt, Hex Cap	4	
26	GC67416	Stator Assembly	1	
26	GC67418	Stator Assembly		1
27	GM69562	Rotor Assembly	1	
27	GM69563	Rotor Assembly		1
-	X-6003-63	Conduit, Convolute (.350 ID x 26 in.)	1	1
-	X-6003-130	Conduit, Convolute (1.0 ID x 45 in.)	1	1

Alternator, continued



GM80979-

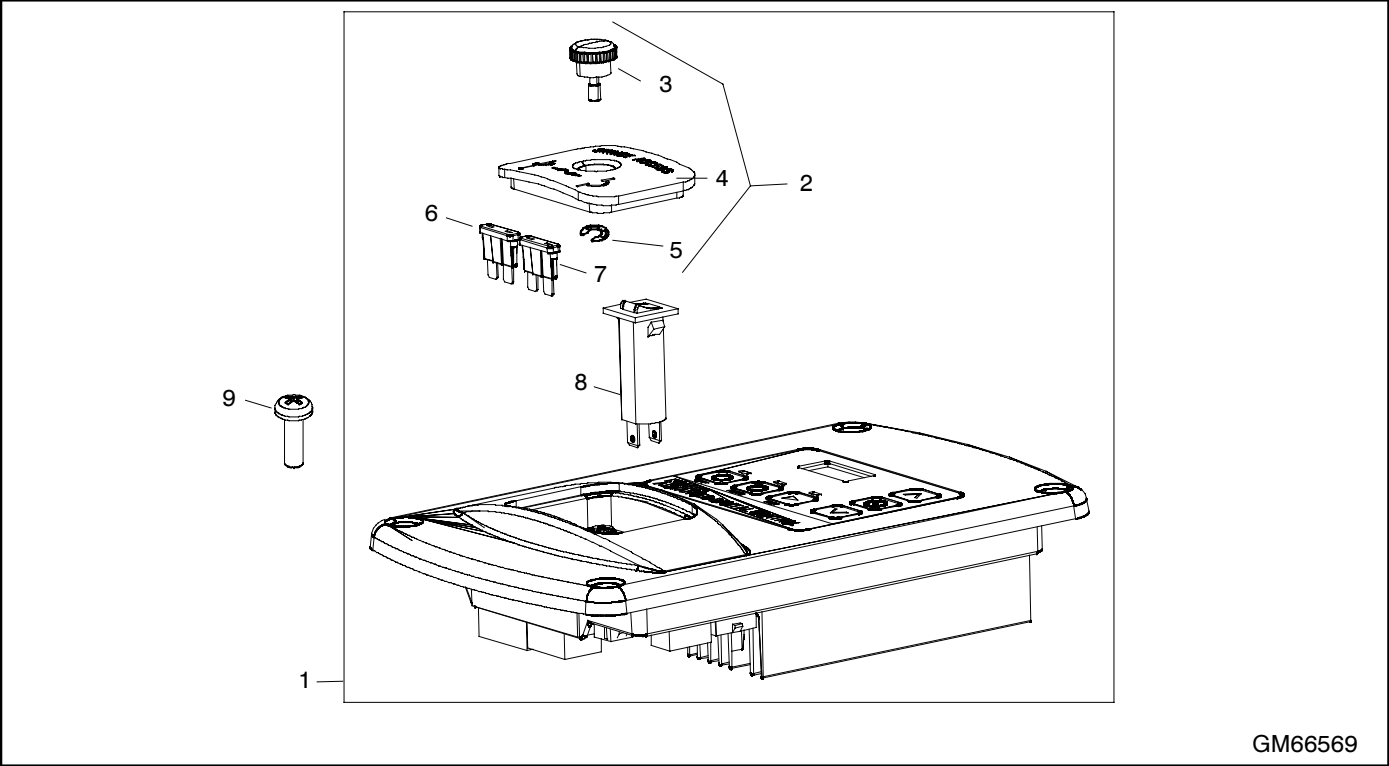
Alternator, continued

GM80979-GR4, GR5, GR6, GR7, GM80980-GR1, GR2

Item	Part Number	Description	Quantity					
			Variation					
			4	5	6	7	8	9
1	256466	O-Ring (2.050" ID)	1	1	1	1	1	1
2	GM60283	Adapter, Alternator	1	1	1	1		
3	GM62996	Shim, Brush Holder	1	1	1	1	1	1
4	GM66767	Bracket, End	1	1	1	1	1	1
6	GM76192	Bolt, Armature Thru	1	1	1	1		
6	GM62982	Bolt, Armature Thru					1	1
7	GM78223	Casting, Mounting Foot	1	1	1	1	1	1
8	GM80981	Brush	2	2	2	2	2	2
9	GM80982	Holder, Brush*	1	1	1	1	1	1
10	M125A-08-80	Washer, Plain 8.4 ID x 16.0 OD	4	4	4	4	4	4
11	M125A-10-80	Washer, Plain 10.5 ID x 20.0 OD	2	2	2	2	2	2
12	M7500D-04016-83	Screw, Metric Thread Forming 16mm	3	3	3	3	3	3
13	M931-08385-60	Screw, Hex Cap (Metric)	4	4	4	4	4	4
14	M933-10020-60	Screw, hex cap	2	2	2	2	2	2
15	M982-10-80	Nut, hex elastic stop	2	2	2	2	2	2
16	X-25-34	Washer, plain, .469 ID x .922 in. OD	4	4	4	4		
17	X-468-1	Cable Tie	2	2	2	2	2	2
18	X-468-3	Cable tie, nylon	1	1	1	1	1	1
19	X-801-6	Washer, hardened, .469 ID x .922 in. OD	1	1	1	1	1	1
20	X-6024-2	Bolt, Hex Cap	4	4	4	4		
21	GC81494	Stator Assembly	1					
21	GC81495	Stator Assembly		1				
21	GC81492	Stator Assembly			1			
21	GC81493	Stator Assembly				1		
21	GC81496	Stator Assembly					1	
21	GC81497	Stator Assembly						1
22	GM69562	Rotor Assembly	1	1				
22	GM69561	Rotor Assembly			1	1		
22	GM69563	Rotor Assembly					1	1
23	GM75725	Vibromount	2	2			2	2
23	GM75548	Vibromount			2	2		
24	M6921-06016-60	Screw, Hex Flnge M6x16mm fly thrd js500	4	4	4	4	4	4
25	M931-10055-60	Screw, hex cap	2	2	2	2	2	2

* Brush Holder Service Kit GM82981-S includes items 8 and 9.

Controller



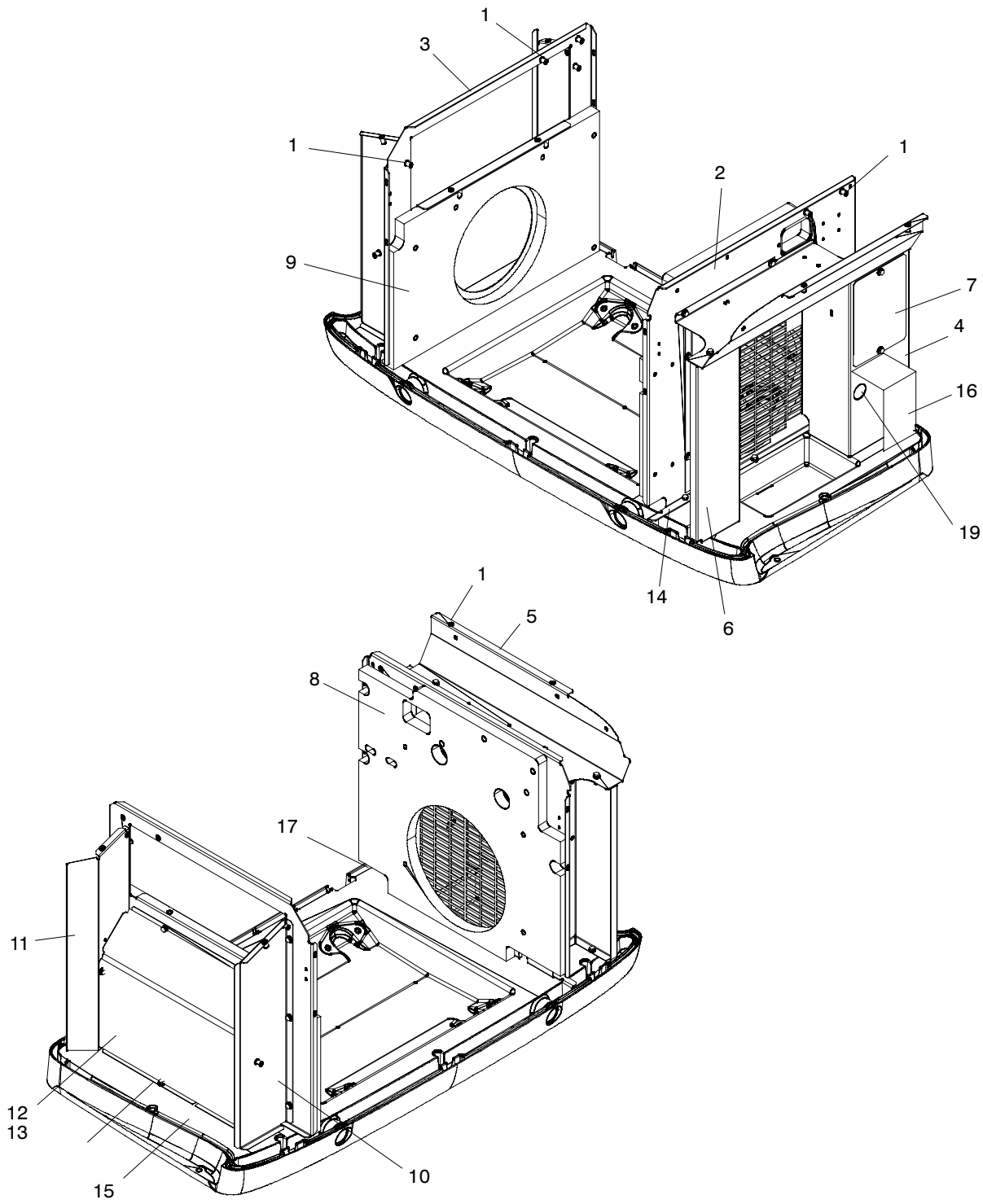
GM66569

GM66569-MA1, GR1, MA2, GR2

Item	Part Number	Description	Quantity	
			Variation	
			1	2
1	GM79884	Service Controller, 14/20RES	1	
1	GM79885	Service Controller, 14/20RESL		1
2	GM71174	Fuse Cover Assembly	1	1
3	GM63652	Screw, Thumb	1	1
4	GM62862	Cover, Fuse	1	1
5	X-269-51	Ring, Retaining	1	1
6	GM66128	Fuse, 3 Amp, ATC Blade, 32V DC	1	1
7	GM66129	Fuse, 7.5 Amp, ATC Blade, 32V DC	1	1
8	GM63134	Breaker, Circuit (20A.)	1	1
9	M7985A-05016-20	Screw, Pan Head Machine	4	4

Notes

Bulkhead



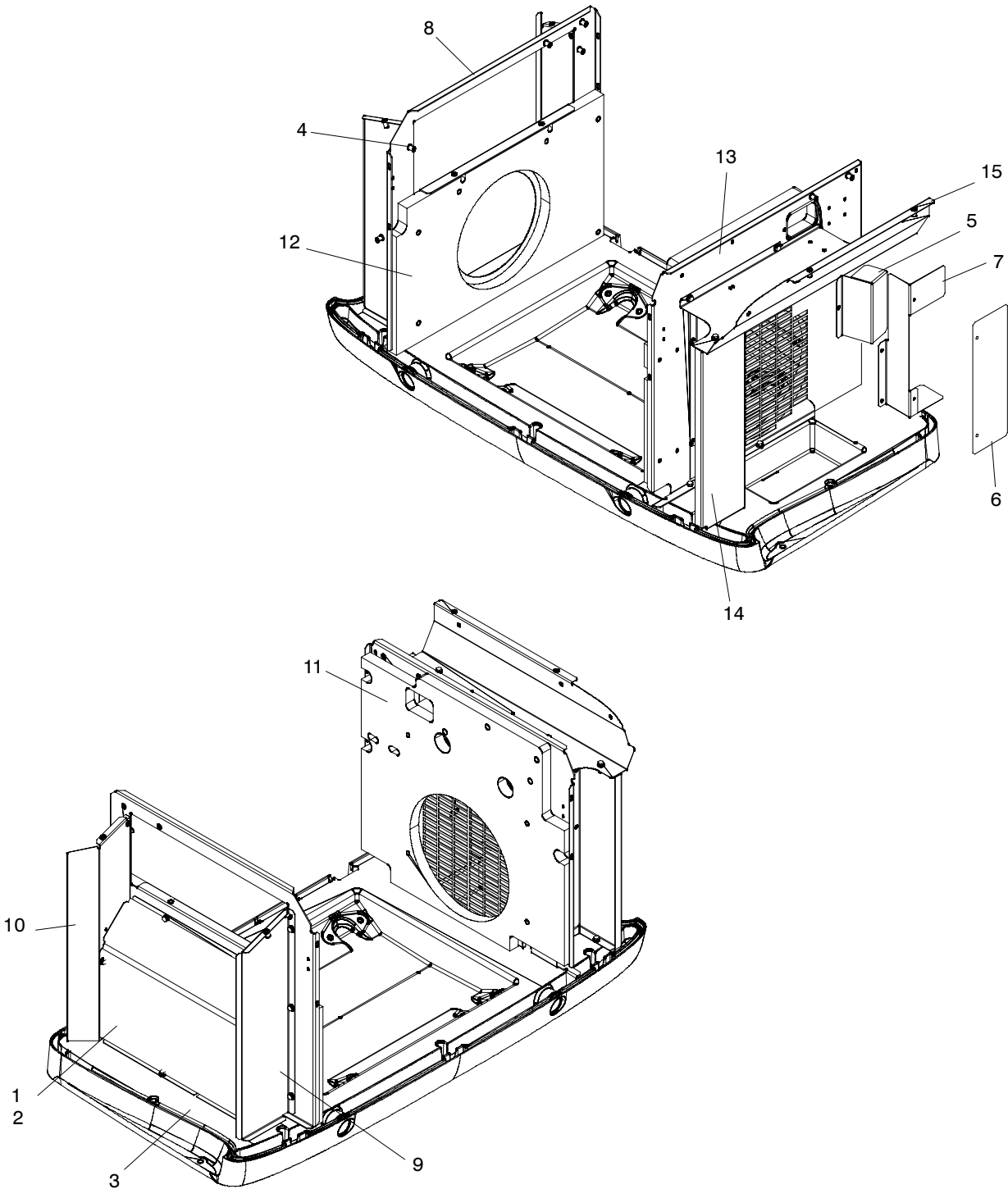
GM72524

Bulkhead

GM72524-MA1

Item	Part Number	Description	Quantity
			Variation
			1
1	GM11040-2	Insert, Threaded M6 x 1.0	12
2	GM69746	Bulkhead, Front	1
3	GM69747	Bulkhead, Rear	1
4	GM69749	Duct, Front Bulkhead (LH)	1
5	GM69750-S	Duct, Front Bulkhead (Top)	1
6	GM69751	Duct, Front Bulkhead (RH)	1
7	GM69752	Panel, Access	1
8	GM69900-1	Insulation, Bulkhead (front)	1
9	GM69900-2	Insulation, Bulkhead (rear)	1
10	GM74976	Duct, Exhaust (RH)	1
11	GM74977	Duct, Exhaust (LH)	1
12	GM74978	Duct, Alt. Air Inlet	1
13	GM75415	Insulation, Exhaust Duct	1
14	GM75526	Bracket, Front Bulkhead (Lower)	1
15	GM75867	Insulation, Exhaust Duct	1
16	GM75868	Cover, Fuel Valve	1
17	GM75869	Barrier, Wire	1
18	M6921-06014-60	Screw, Hex Cap Flange	22
19	X-301-43	Plug, Button, 1.37 (Hole Dia. 1.01)	1

Bulkhead, continued



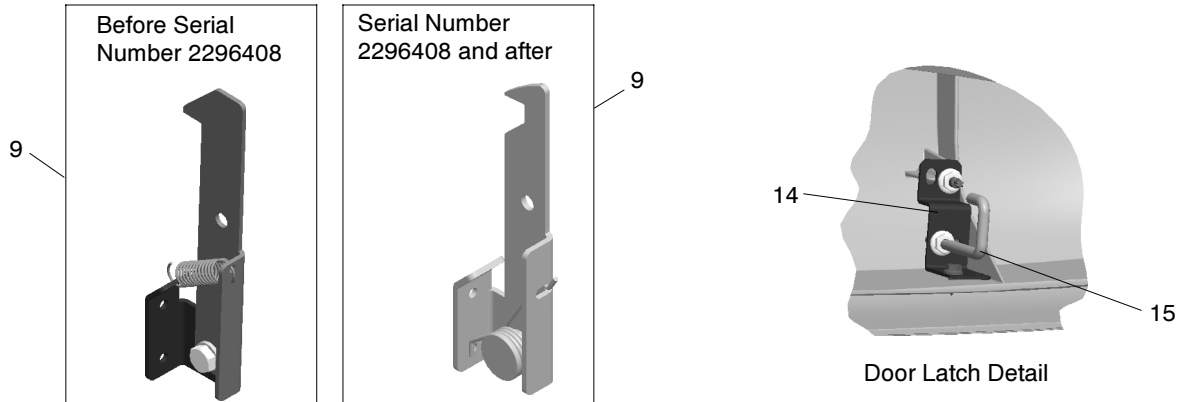
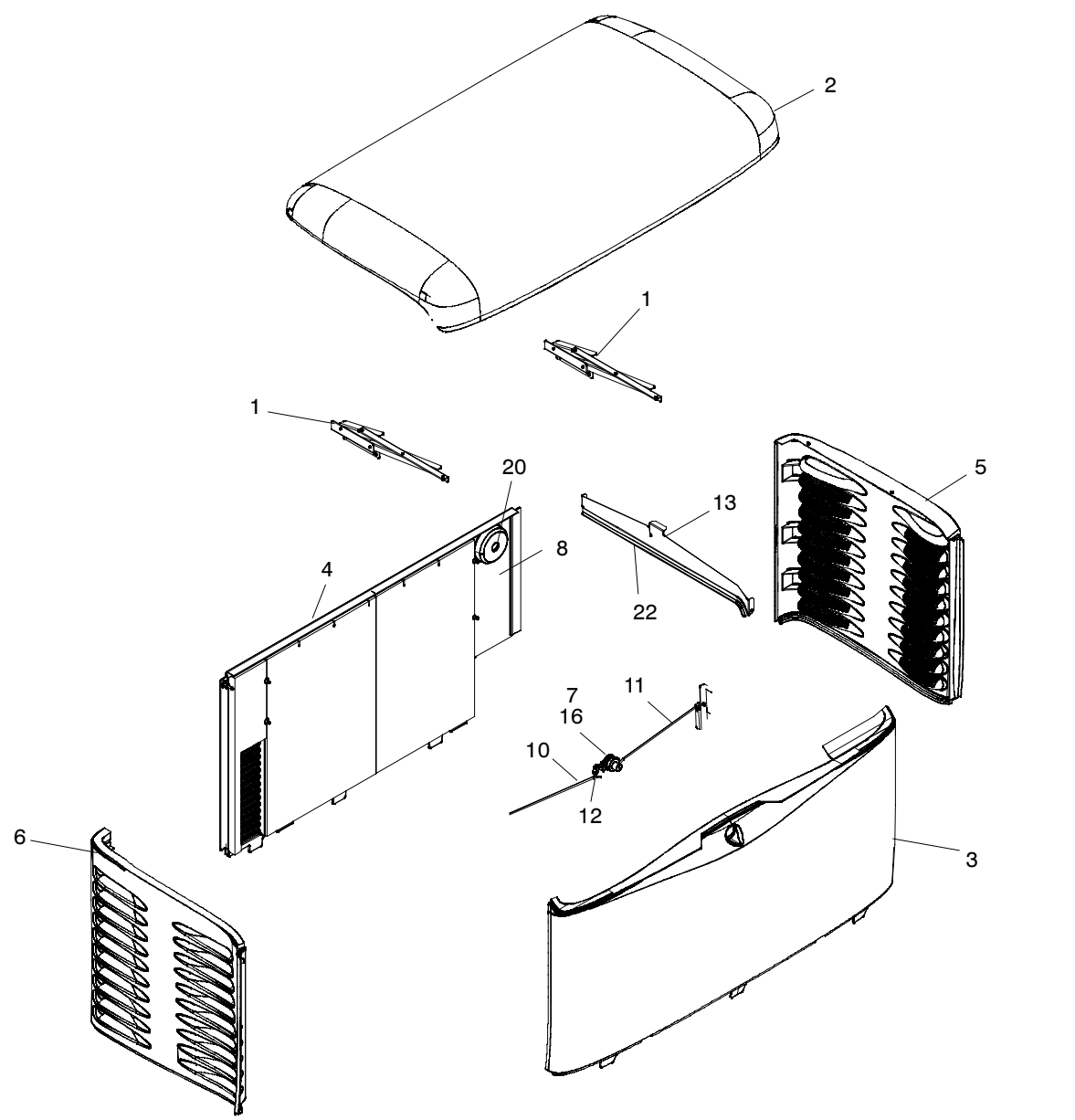
GM72524

Bulkhead, continued

GM72524-GR1

Item	Part Number	Description	Quantity
			Variation 2
1	GM74978	Duct, Alt. Air Inlet	1
2	GM75415	Insulation, Exhaust Duct	1
3	GM75867	Insulation, Exhaust Duct	1
4	GM78761-1	Screw, Sheetmetal	18
5	GM80094	Cover, Low Voltage Connection	1
6	GM80095	Cover, High Voltage Connection	1
7	GM80096	Box, High Voltage Connection	1
8	GM81252	Bulkhead, Rear	1
9	GM81253	Duct, Exhaust (RH)	1
10	GM81254	Duct, Exhaust (LH)	1
11	GM81319-1	Insulation, Bulkhead (front)	1
12	GM81319-2	Insulation, Bulkhead (rear)	1
13	GM81658	Bulkhead, Front	1
14	GM81663	Duct, Front Bulkhead (RH)	1
15	GM81665	Duct, Front Bulkhead (Top)	1

Enclosure



GM72523a

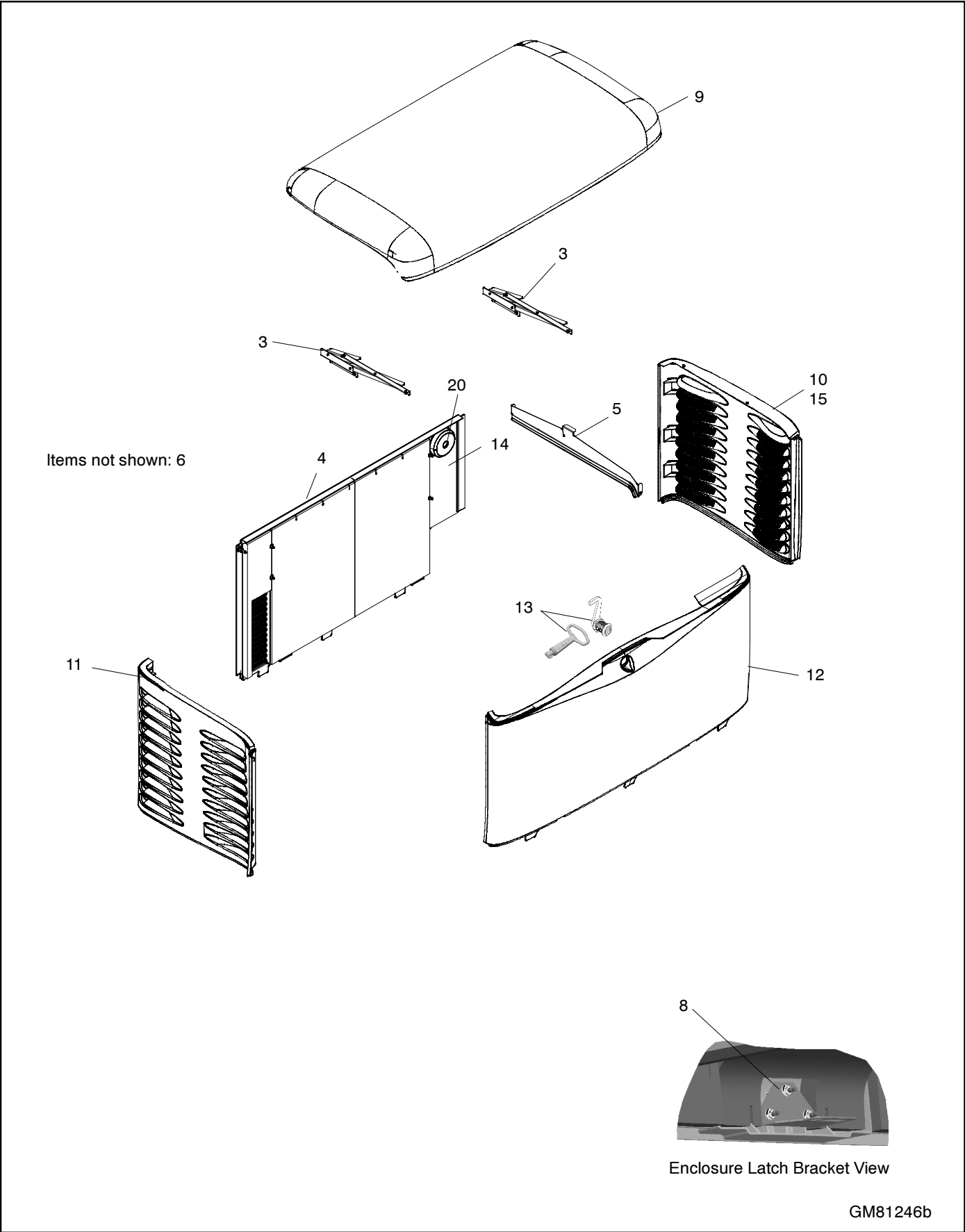
Enclosure

GM72523-MA1

Item	Part Number	Description	Quantity
			Variation
			1
1	GM62980	Hinge	2
2	GM66984	Enclosure, Roof Panel	1
2	GM71329	Roof Panel Foam Kit (not shown)	1
2	GM74990	Stud, Hi-Lo M6/Collar (not shown)	8
3	GM66986	Enclosure, Front Panel	1
3	GM74990	Stud, Hi-Lo M6/Collar (not shown)	4
3	GM71328	Front Panel Foam Kit (not shown)	1
4	GM66987	Enclosure, Rear Panel	1
4	GM71243	Insert (not shown)	1
4	GM71330	Rear Panel Foam Kit (not shown)	1
5	GM66988	Enclosure, Louver Intake	1
6	GM66989	Enclosure, Louver Exhaust	1
6	GM71243	Insert	1
7	GM67501*	Latch, Push Button (Replace with Service Kit GM77223-S)*	1
7	GM77825	Latch, Push Button Assembly	1
7	GM78056	Key (H701D)	1
8	GM69900-5	Insulation, Bulkhead (front)	1
9	GM74603*	Latch Assy., Enclosure (Replace with Service Kit GM77223-S)*	2
9	GM77092	Latch Assy., Enclosure	2
10	GM74607*	Rod, latch assy. (LH) (Replace with Service Kit GM77223-S)*	1
10	GM77082	Rod, latch assy. (LH)	1
11	GM74608*	Rod, latch assy. (RH) (Replace with Service Kit GM77223-S)*	1
11	GM77083	Rod, latch assy. (RH)	1
12	GM74609	Clip, plastic rod	2
13	GM75527	Bracket, Front Bulkhead (Upper)	1
14	GM75628	Plate, door latch	2
15	GM75629	Rod, door latch	2
16	GM75754	Thermal Protector	1
20	X-301-29	Plug, Button	1
22	GM71332	Seal, Push-on Trim	1
23	GM74604	Latch, Enclosure	1
24	GM74605	Mount, Enclosure Latch	1
25	GM74606	Spring, Return	1
26	M125A-06-80	Washer, Plain (not shown)	2
27	M933-06016-60	Screw, hex cap, M6x16mm, js500 full thrd (not shown)	1
28	M982-06-80	Nut, hex elastic stop, 6MM (not shown)	1
29	GM75735	Plug, button (not shown)	4

* Before serial number 2296408, order service kit GM77223-S.
GM77223-S includes GM77083, GM77092 (2), GM77082, and GM77081.

Enclosure, continued



Enclosure, continued

GM81246-GR1

Item	Part Number	Description	Quantity
			Variation
			2
3	GM62980	Hinge	2
4	GM66987-S	Panel Assy., Rear	1
4	GM71330-S	Rear Panel Foam Kit (not shown)	1
5	GM75527	Bracket, Front Bulkhead (Upper)	1
6	GM75735	Plug, button (not shown)	4
7	GM78761-1	Screw, Sheetmetal	3
8	GM84871	Roof Bracket Assy	1
9	GM81234-S	Panel Assy., Top (includes item 5)	1
9	GM81239	Roof Panel Foam Kit (not shown)	1
10	GM81242-S	Panel, Intake	1
11	GM81243	Panel Assy., Exhaust	1
12	GM81244-S2	Panel Assy., Front	1
12	GM71328-S	Front Panel Foam Kit (not shown)	1
13	GM81245	Latch Assembly (includes tool)	1
13	GM82922	Tool, Latch Opening	1
14	GM84046-3	Insulation, Acoustic Foam	1
15	GM83931	Wedge, Acoustic	1
20	X-301-29	Plug, Button	1

Literature

Item	Part Number	Description	Quantity							
			Variation							
			44	45	46	47	53	54	59	60
1	TP-2428-C	CH18-750 Kohler Engine Service Manual	1	1				1		
1	TP-2580	CH940-980 Kohler Engine Service Manual			1	1			1	1
1	24 690 06	SM, CH18-CH750 COMMAND TWIN					1			
2	TP-6168	Warranty, Federal/CA Emission	1	1						
2	TP-6535	Warranty, Emission Control			1	1				
2	TP-6766	Warranty, Residential/Light Commercial					1	1		
2	TP-6782	Warranty, 2011 Emissions, Residential					1	1	1	1
3	TP-6479	Warranty, 5-Yr. Standby	1		1		1	1	1	1
3	TP-6463	Warranty, 5-Yr Lmted, RESL		1		1				
4	TP-6733	I/M 14/20RES/RESL, RDC Controller	1	1	1	1	1	1	1	1
5	TP-6734	O/M 14/20RES/RESL, RDC Controller	1	1	1	1	1	1	1	1
6	TP-6735	S/M 10-20RES/RESL	1	1	1	1	1	1	1	1
7	TP-6736	P/C 10-20RES/RESL	1	1	1	1	1	1	1	1

Notes

RRT- Introduction

Use this section to locate and identify serviceable parts for the transfer switch model covered by this manual.

1.1 Finding Parts Information

Some part numbers vary according to transfer switch characteristics or ratings. When there are multiple possibilities for parts, use the following steps to determine the module number.

1. **Locate the transfer switch model designation** on the nameplate and record the characters.
2. **Look for the Module Number Key.** The first columns list the designations. The last column lists the module number.
3. Match the characters from the model designation to the line with the matching elements and read across to the last column **to find the module number.**
4. Locate the parts list table and select **the part number that corresponds to your module number.**

1.2 Leads

Fabricate replacement leads using the same type of wire as the old leads. Add terminals and lead markers at each end of the new lead.

1.3 Common Hardware

Common hardware such as nuts, bolts, screws, and washers are Grade 2 unless otherwise noted and can be obtained locally if the same type and grade is available. Refer to Appendices for general torque specifications and to help to identify parts that may not be shown in the parts lists.

1.4 Transfer Switch Model Designation

The transfer switch model designation defines characteristics and ratings as explained in Figure 1-1.

1.5 Parts Lists

Parts lists appear on the following pages.

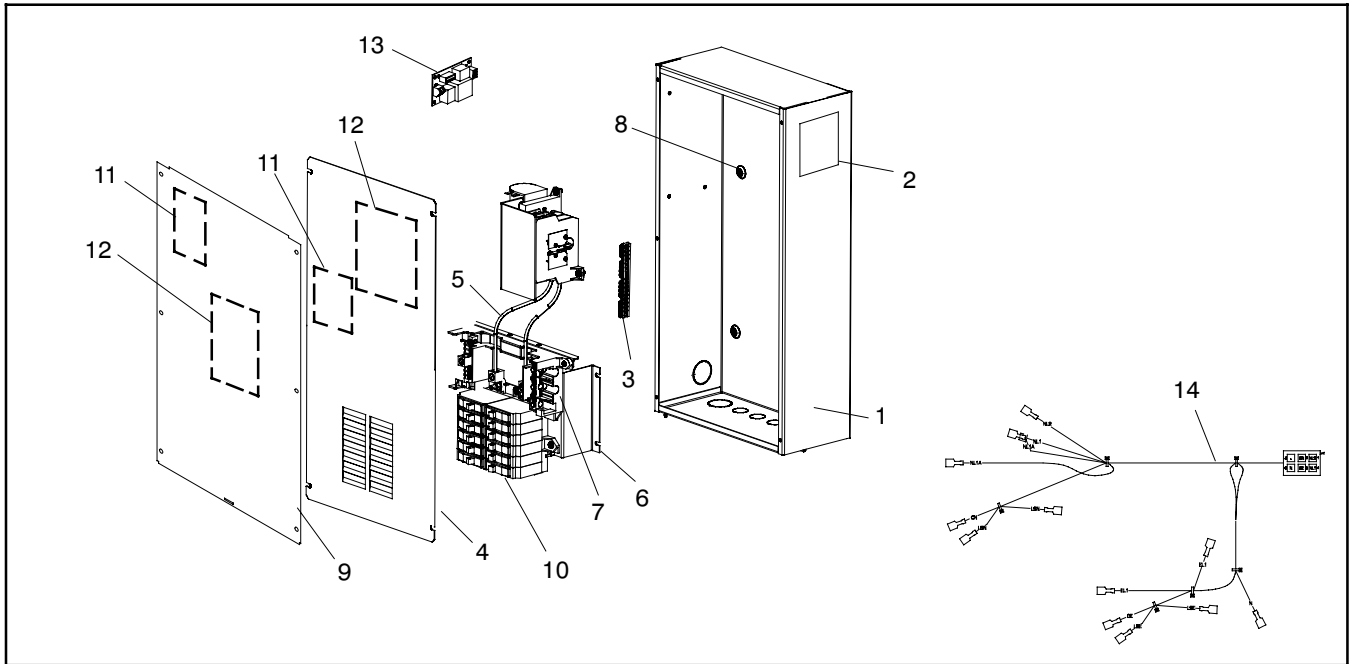
Model Designation

Model	Size, Amps	Enclosure Type	Description
RRT-JFNA-0100B-SA*	100	NEMA 1	With load center, up to 16 customer-supplied circuit breakers. For indoor installation only.
RRT-JFNC-0200A-SA*	200	NEMA 3R	No load center. Rated for outdoor installation.
RRT-JFNC-0200ASE-S	200	NEMA 3R	Service entrance rated, no load center. Rated for outdoor installation.

* The last digit of the model designation represents a number that may vary.

Figure 1-1 Model Designation

RRT- Enclosure and Door, 100/200-Amp



		Part Number	
		Module	
Item	Description	GM63982-KA1	GM63935-KA1
1	Enclosure, ATS	GM63983	GM63936
2	Decal, ATS rating	GM64156	GM64157
3	Bar, grounding, 9-position	GM55452	GM55452
4	Cover	GM63985	N/A
5	Cable, lead (qty. 2)	GM39361	N/A
6	Bracket, LC mounting	GM63987	N/A
7	Base, load center	GM63986	N/A
8	Gasket (qty. 4)	N/A	GM20990
9	Cover	N/A	GM39366
10	Circuit breakers. See note below.	N/A	N/A
11	Decal, wiring	GM69587	GM69587
12	Insulation, inner panel	GM64476	GM64476
13	PCB Assy., ATS interface	GM63552	GM63552
14	Harness, Wiring ATS	GM81263	GM81263

N/A Not applicable

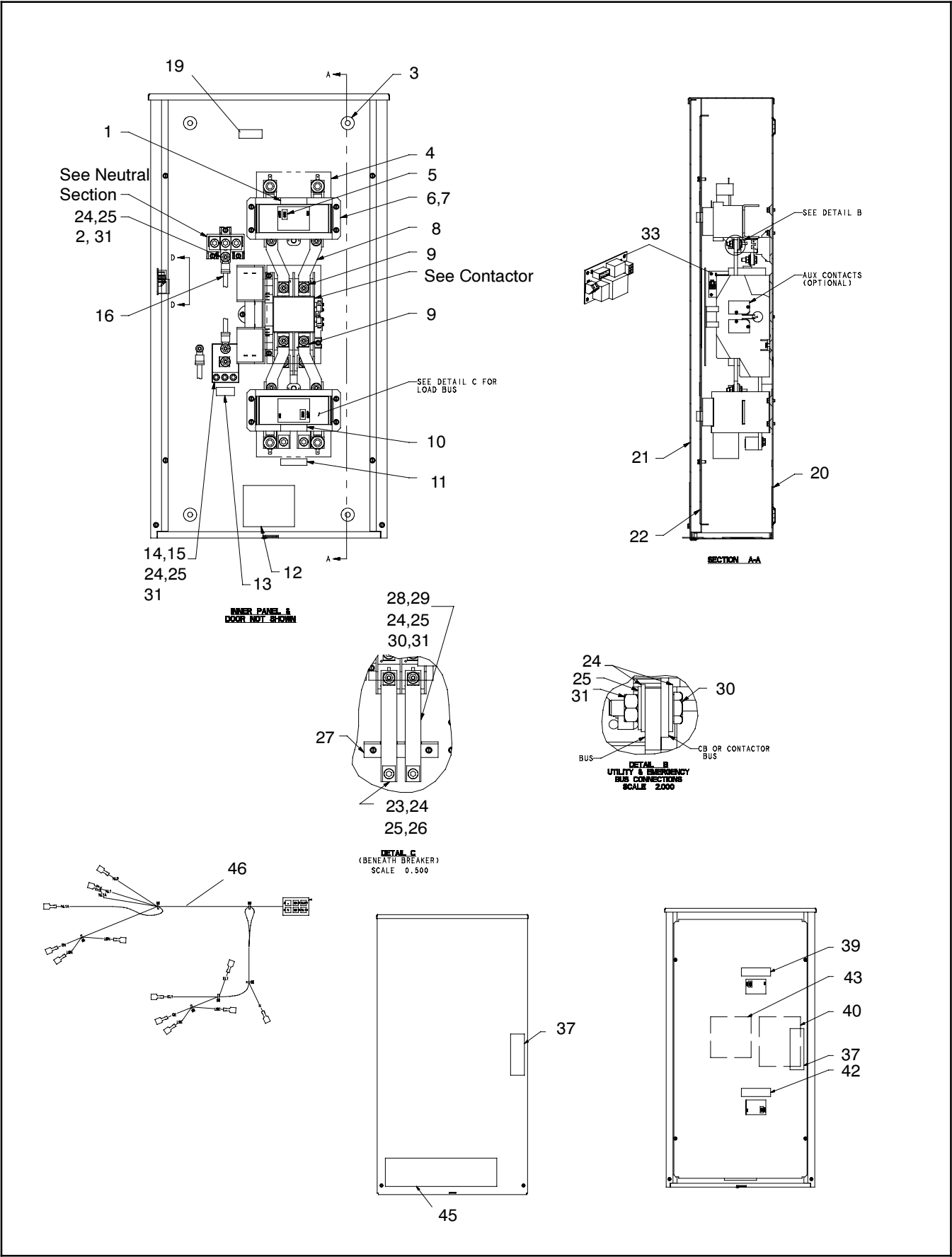
Note: Because the size and number of circuit breakers required will vary with each application, load center circuit breakers are not provided with the transfer switch. Obtain Square D type QO circuit breakers locally.

Enclosure and Door

Module Number Key

Model Designation Code									Module Number
Model	Mechanism	Transition	Controls	Voltage	Poles	Enclosure	Current Rating	Load Center	
R	R	T	J	F	N	A	100	B	GM63982-KA1
R	R	T	J	F	N	C	200	A	GM63935-KA1

RRT- Enclosure and Door (200-Amp Service Entrance)



RRT- Enclosure and Door (200 A Service Entrance)

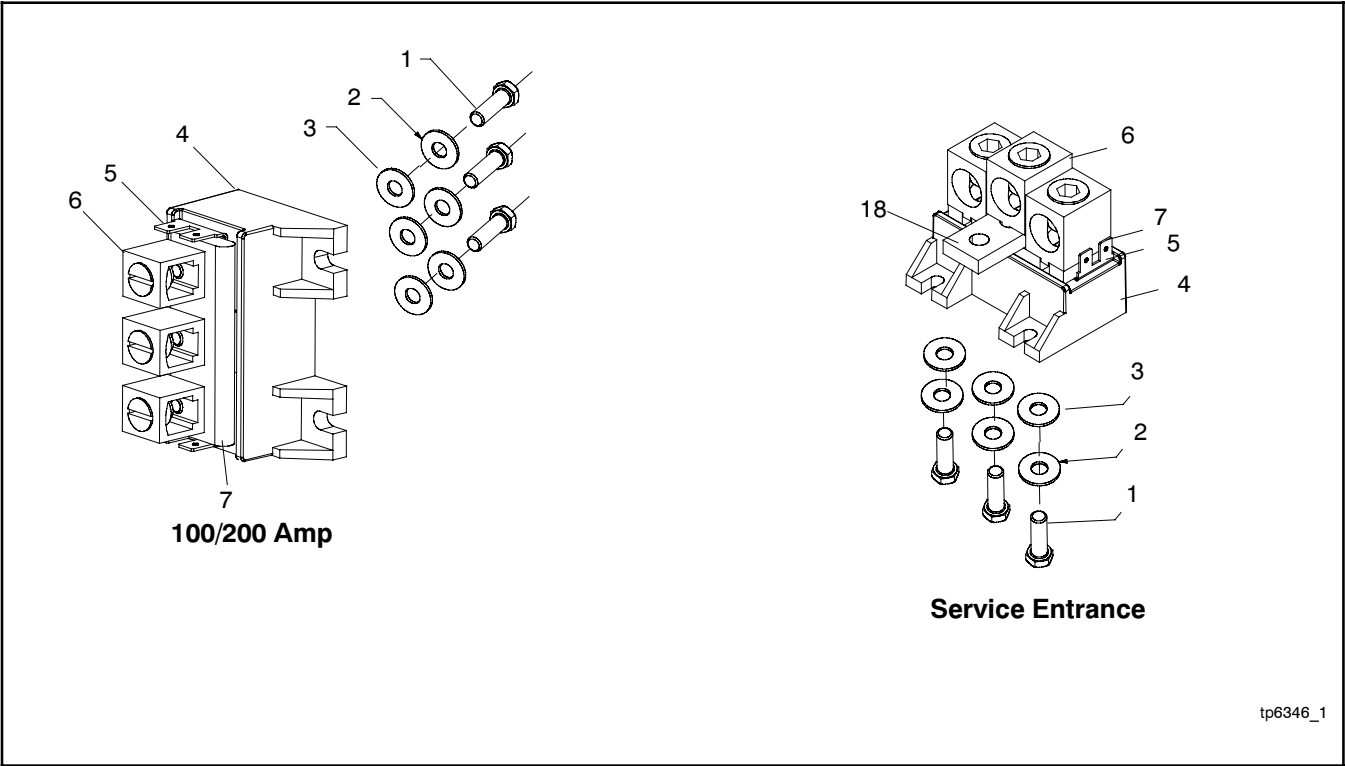
Item	Part No.	Description	Qty. Module
			GM64151-KA1
1	X-6333-5	Decal, marker	1
2	X-465-16	Bolt, hex cap	1
3	GM20990	Gasket	4
4	GM47372	Insulation, circuit breaker	2
5	GM46847	Circuit breaker, main w/tabs	2
6	GM47588	Bracket, circuit breaker	2
7	GM47589	Support, circuit breaker	2
8	GM47371	Bus, line CB to contactor	4
9	GM31854	Terminal, ATS lug sensing	4
10	X-6333-10	Decal, marker	1
11	X-6333-11	Decal, marker	1
12	GM55084	Decal, ATS ratings	1
13	344295	Decal, equipment grd	1
14	X-6207-17	Lug, terminal	1
15	GM31854	Terminal, ATS lug sensing	1
16	LK-0411-1515	Lead	1
19	GM65416	Decal, service equipment	1
20	GM64152	Enclosure, ATS	1
21	GM64153	Cover, ATS	1
22	GM64154	Panel, inner	1
23	297712	Lug, terminal	2
24	X-25-20	Washer, flat, 0.312 ID x 0.75 OD	26
25	X-6086-24	Washer, spring	15
26	X-465-2	Bolt, hex cap	2
27	GM52061	Support, bus	1
28	GM52060	Bus, load	2
29	GM31854	Terminal, ATS lug sensing	2
30	X-465-7	Bolt, hex cap	10
31	X-81-10	Nut, hex, 1/4-20	13
33	GM63552	PCB Assy., ATS interface	1
37	362176	Decal, Danger	2
39	GM52664	Decal, Service Disconnect Normal/Utility	1
40	GM21291	Decal, Nameplate	1
42	GM52665	Decal, Service Disconnect Emergency/Gen	1
43	GM69587	Decal, Wiring	1
45	X-6246-13	Decal, Kohler Power System	1
46	GM81263	Harness, Wiring ATS	1

Enclosure and Door

Module Number Key

Model Designation Code									Module Number
Model	Mechanism	Transition	Controls	Voltage	Poles	Enclosure	Current Rating	Load Center/ Service Entrance	
R	R	T	J	F	N	C	200	ASE	GM64151-KA1

RRT- Neutral Assembly



tp6346_1

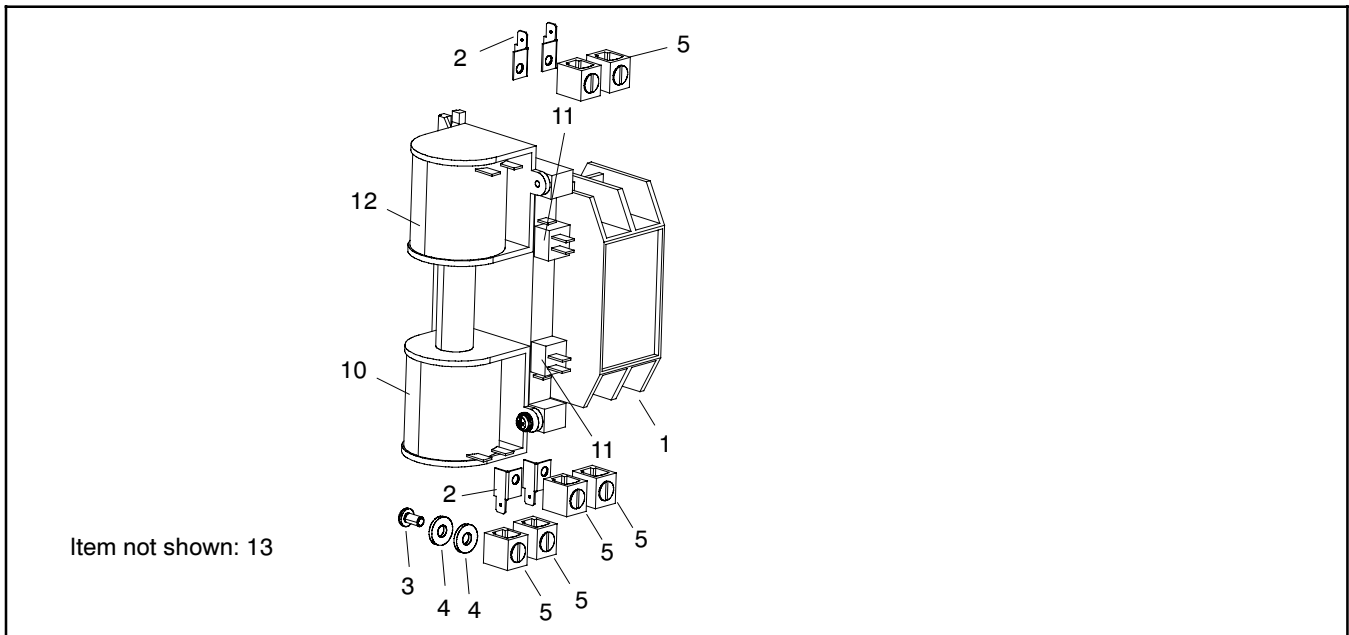
Item	Part Number	Description	Part Number	
			Module	
			GM36205-KA1	GM47590-KA1
1	X-465-16	Bolt, hex cap (ends)	3	2
1	X-465-7	Bolt, hex cap (center)		1
2	X-6086-24	Washer	3	3
3	X-25-20	Washer, plain, 0.312 ID x 0.75 OD	3	3
4	GM36201	Base, neutral	1	1
5	GM31854	Terminal, ATS lug sensing	2	2
6	297712	Lug, terminal	3	3
7	GM36203	Bus, neutral	1	1
18	GM47593	Bus, bonding		1

Neutral Assembly

Module Number Key

Model Designation Code									Module Number
Model	Mechanism	Transition	Controls	Voltage	Poles	Enclosure	Current Rating	Load Center/ Service Entrance	
R R	R R	T T	J J	F F	N N	C C	200 200	A ASE	
									GM36205-KA1 GM47590-KA1

RRT- Contactor, 100/200-Amp



Item	Part Number	Description	Quantity		
			Variation		
			1	2	3
1	GM63989	Contact, 100A, 2P (includes items 2-5, 10-12)	1		
1	GM63990	Contact, 200A, 2P, 240V (includes items 2-5, 10-12)		1	
1	GM63991	Contact, 200A (includes items 10-12)			1
2	GM31593	Terminal, ATS lug sensing	4	6	
3	X-50-2	Screw, pan head, 10-32 x 3/8	6		
3	X-465-6	Bolt, hex cap		6	
4	X-25-36	Washer, plain	6		
4	X-25-20	Washer, plain		6	
4	X-6086-23	Washer, spring	6		
4	X-6086-24	Washer, spring		6	
5	GM28412	Lug, terminal	6		
5	297712	Lug, terminal		6	
10	GM77074	Coil, lower	1		
10	GM77076	Coil, lower		1	
10	GM29865	Coil, lower			1
11	GM29867	Switch, limit	2	2	2
12	GM77073	Coil, upper	1		
12	GM77075	Coil, upper		1	
12	GM29865	Coil, upper			1
13	GM77077	Cover, power terminal (not shown)		1	1

Contactor Assembly

Variation Number Key

Model Designation Code									Variation Number
Model	Mechanism	Transition	Controls	Voltage	Poles	Enclosure	Current Rating	Load Center/ Service Entrance	
R	R	T	J	F	N	A	0100	B	1
R	R	T	J	F	N	C	0200	A	2
R	R	T	J	F	N	C	0200	ASE	3

RRT- Literature

Part No.	Description	Quantity
		Model
		RRT
TP-6753	Warranty, 5-year limited	1
TP-6751	O/I/M Model RRT ATS	1

Kit Parts List

Qty.	Description	Part No.
------	-------------	----------

Fuel System Kit

Flexible Fuel Line	GM31054-KA1
1 Fuel line, flexible, 0.50 in. ID x 12 in.	X-504-1

Regulator Heater Kit	GM79141-KP1-QS
1 Heater, Regulator Pad	GM79142
2 Screw, Hex Cap	M933-06035-60
1 TT Regulator Heater Kit, 20RES/RESL	TT-1569

Electrical System Kits

Battery, 1/12V, 500CCA, Wet	GM75513-KP1
1 Battery (Wet)	GM75512

Battery Heater, 80W, 110-120V	PA-352359
1 Heater, battery wrap	336814
1 Heater, battery pad	336826

Qty.	Description	Part No.
------	-------------	----------

Miscellaneous Kits

Carburetor Heater	GM19462-KP1-QS
1 Heater, Inlet 37W 120V	GM19463
1 Tube, Breather (.375" OD) Copper	GM19464
1 Insulator, breather line (.56" ID x 4")	GM19465
1 Plug, button	X-301-23
1 Bushing, 1.312 x 1.50 in. NPT	X-634-16
4 Screw, Hex Head	X-97-22
1 Decal, Caution Hot Carburetor Heater	GM22387
1 TT Carburetor Heater,	TT-1297

Carburetor Heater 120 V	GM57969-KP1-QS
1 Decal, caution hot carburetor	GM22387
1 Heater, carburetor	GM57968
1 Bushing, 1.000 x 1.375 in. NPT	X-634-15
1 Bushing, 1.312 x 1.50 in. NPT	X-634-16

Hardware, OnCue, RDC/DC	GM62465-KP1-QS
1 Screw, Plastic Tapping, 6-19 x 0.375	GM23307
1 PCB Assy, Ethernet Option	GM60385-1
1 Header, PCB Pin	GM60410
1 O/M OnCue	TP-6796
1 TT OnCue Ethernet Board 14/20RES/L	TT-1566

Maintenance Service Kits

(includes oil, oil filter, air filter, spark plugs, and instructions (TT-1445))		
1	Kit, Residential Maint (14RES)	GM62346
1	Kit, Residential Maint (20RES)	GM62347

Notes

Appendix A Abbreviations

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

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

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

Appendix B Common Hardware Application Guidelines

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

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

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

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

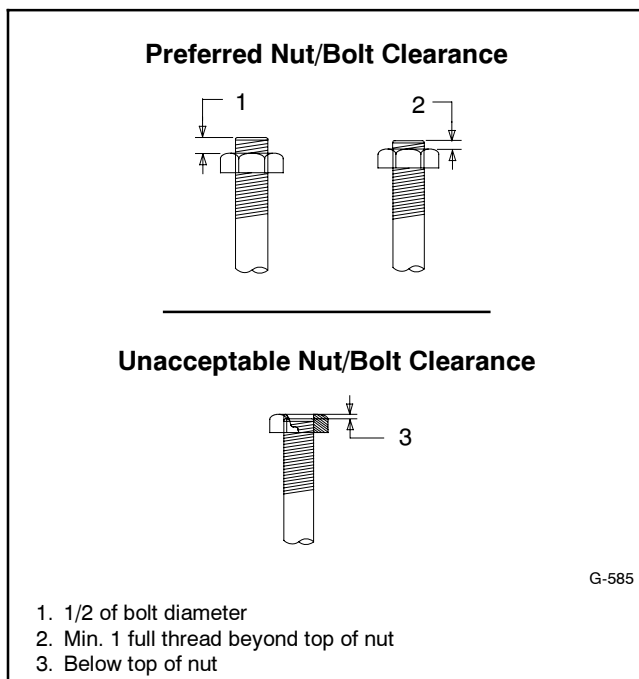


Figure 1 Acceptable Bolt Lengths

Steps for common hardware application:

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

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

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

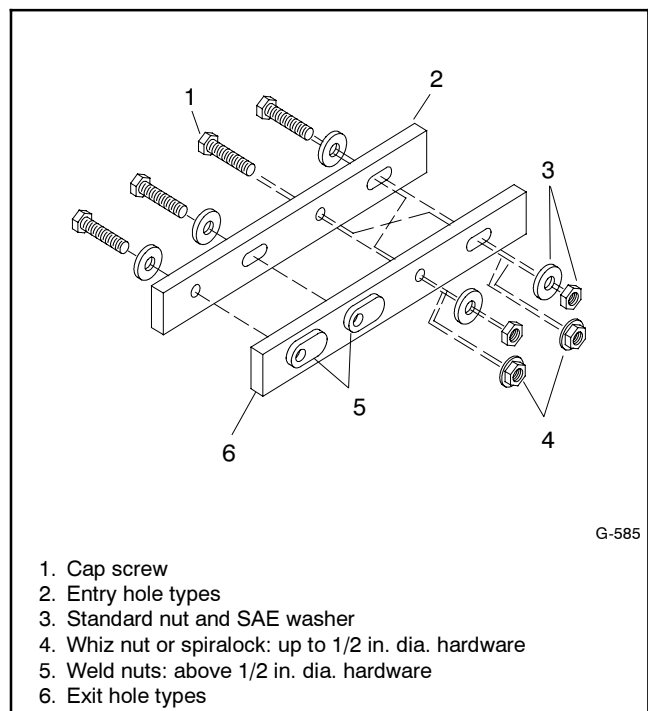


Figure 2 Acceptable Hardware Combinations

Appendix C General Torque Specifications

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

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

Notes:

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

Appendix D Common Hardware Identification

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

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

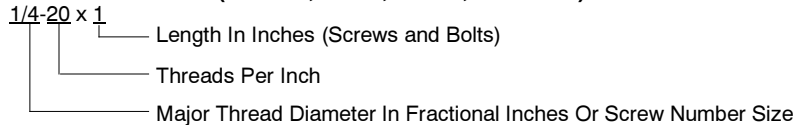
Hardness Grades	
American Standard	
Grade 2	
Grade 5	
Grade 8	
Grade 8/9 (Hex Socket Head)	
Metric	
Number stamped on hardware; 5.8 shown	

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

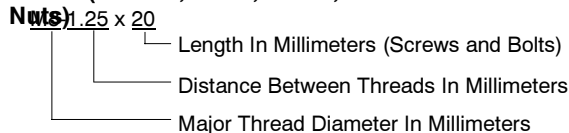
Phillips® screw is a registered trademark of Phillips Screw Company.

Sample Dimensions

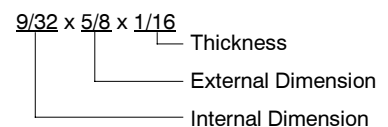
American Standard (Screws, Bolts, Studs, and Nuts)



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

[illegible]

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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