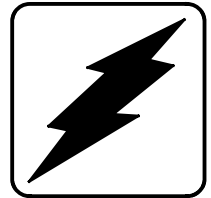


Service Parts

Industrial Generator Sets



Models:

Kohler COM-6

KOHLER[®]
POWER SYSTEMS

ISO 9001
KOHLER
POWER SYSTEMS
NATIONALLY REGISTERED

TP-5941 8/12b

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Introduction

This manual contains a list of generator and some engine service replacement parts for Kohler industrial generator sets. Refer to the Specification Number Index for models and specifications covered.

This manual includes the following main sections:

- *Table of Contents*: Lists the sections of this catalog.
- *Introduction (and other information sections)*: Contains introductory material followed by sections on specification numbers, part numbers, and hardware.
- *Index*: Indexes generator set specifications and their groups.
- *Group Parts Lists*: Lists part numbers of parts in the groups.
- *Kit sections*: Lists accessories and their parts.
- *Appendices*: Includes Glossary of Abbreviations, Common Hardware Application Guidelines, Common Hardware Identification, General Torque Specifications, and Common Hardware List.

Number Significance

This catalog uses a variety of numbering systems. A description of these follows:

- *Specification Number*: The generator specification number (spec number) is six digits with a PA-, PB-, or PE-prefix (Specification Number Index does not show prefixes). The first three digits designate generator size and engine model (specification series). The remaining digits are in sequence and identify a particular spec in a series. Spec numbers break down into groups.
- *Group Number*: A group consists of parts needed to perform one or more related functions. For example, the 101 group is the generator set Air Intake group.
- *Variation Number*: A group might have several variations. Parts comprising each variation perform the same function, but parts lists vary. For example, a 50 Hz generator alternator and 60 Hz generator alternator both perform the same function. However, they are constructed of different parts. Each of these differences necessitates the assignment of a group variation number.
- *Part Number*: The part number identifies an individual assembly, subassembly, component, or accessory kit.

How to Find Part Numbers

FOLLOW THESE STEPS to identify a part:

STEP 1: Turn to the Specification Number Index. The first column lists generator set specification numbers grouped by model. The headings across the top identify the groups of parts that make up the generator set. The intersection of the specification number and the group numbers is the

variation number corresponding to the components of that specification number. Note the variation number.

STEP 2: Find the page number of the group in the Table of Contents and turn to that page or page forward until you find the group. Variation numbers in the column heading of the group page correspond to variations found in the Specification Number Index. Find the description of the part you need in the description column. The intersection of the description row with the variation column identifies the quantity of that part used in that group. Find the part number to order to the left of the description in the part number column.

Hardware Grades

When replacing hardware do not substitute inferior grade hardware. All hex. head screws are hardness grade 5, except where noted. Socket head screws are similar to grade 8. All replacement hardware should be at least equal to original manufacturer's hardware quality. Refer to Common Hardware Application Guidelines and Common Hardware Identification in the back of the manual.

Hardware References

Many common hardware items will appear in parts catalogs as common hardware entries or hardware references. A common hardware entry refers to the size of common hardware to apply in accordance with hardware guidelines. For example, an item may appear as "3/8-16 hardware" in the text. It indicates that the piece is 3/8-16 size. See Common Hardware Application Guidelines.

A hardware reference has the abbreviation "ref." in the part's description. Hardware references specify common hardware items; however, size or some other characteristic requires specification in that application. For example, item 1 in Figure 1 below might appear in the text as follows:

Screw, 3/8-16 x 1, ref. X-6021-1

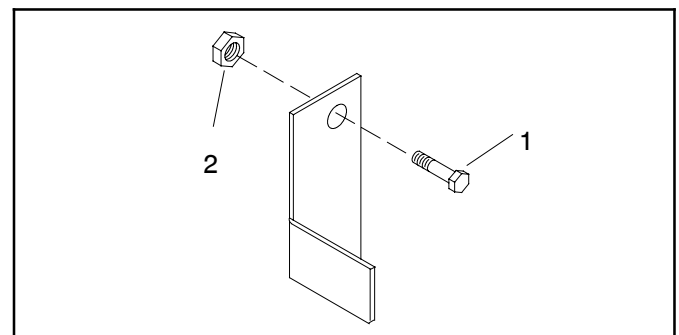


Figure 1. Hardware References

SPECIFICATION NUMBER INDEX

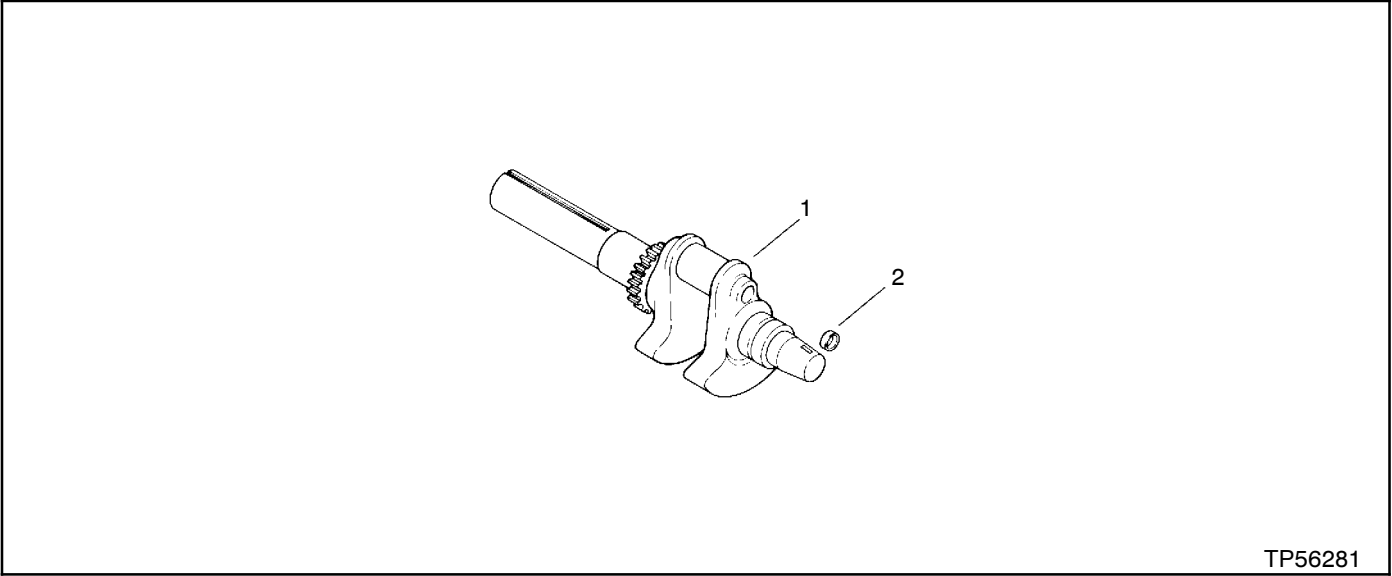
GROUP TITLE & NUMBER	<i>Crankshaft</i>	<i>Crankcase</i>	<i>Oil Pan/Lubrication</i>	<i>Cylinder Head/Valve/Breather</i>	<i>Ignition/Electrical</i>	<i>Blower Housing & Baffles</i>	<i>Starting System</i>	<i>Carburetor</i>	<i>Engine Controls</i>	<i>Air Intake/Filtration</i>	<i>Gasket Set</i>				
GROUP NO.	1	2	3	4	5	6	7	8	9	10					
SPEC NO.	VARIATION NUMBER														

COM-6															
195009	7	29	77	34	171	99	5	100	53	20	6				
195010	7	29	77	34	171	99	5	100	53	20	6				
GM69829-GA1	7	29	77	34	171	99	5	100	53	20	6				
GM69829-GA2	7	29	77	34	171	99	5	100	53	20	6				

GROUP TITLE & NUMBER	<i>Air Intake</i>	<i>Fuel System</i>	<i>Cooling System</i>	<i>Engine</i>	<i>Nameplates and Decals</i>	<i>Oil Pressure Switches</i>	<i>Skid and Plant Mounting</i>	<i>Starter</i>	<i>Exhaust</i>	<i>Generator and Mounting</i>	<i>Controller and Mounting</i>	<i>Housing and Mounting</i>	<i>Literature</i>	
GROUP NO.	101	103	104	105	107	108	109	112	116	201	301	501	701	
SPEC NO.	VARIATION NUMBER													

COM-6														
195009	—	5	—	4	8	—	5	5	4	8	7	—	8	
195010	—	5	—	4	8	—	5	5	4	9	8	2	8	
GM69829-GA1	—	5	—	GR1	8	—	5	5	4	8	7	—	8	
GM69829-GA2	—	5	—	GR1	8	—	5	5	4	9	8	2	8	

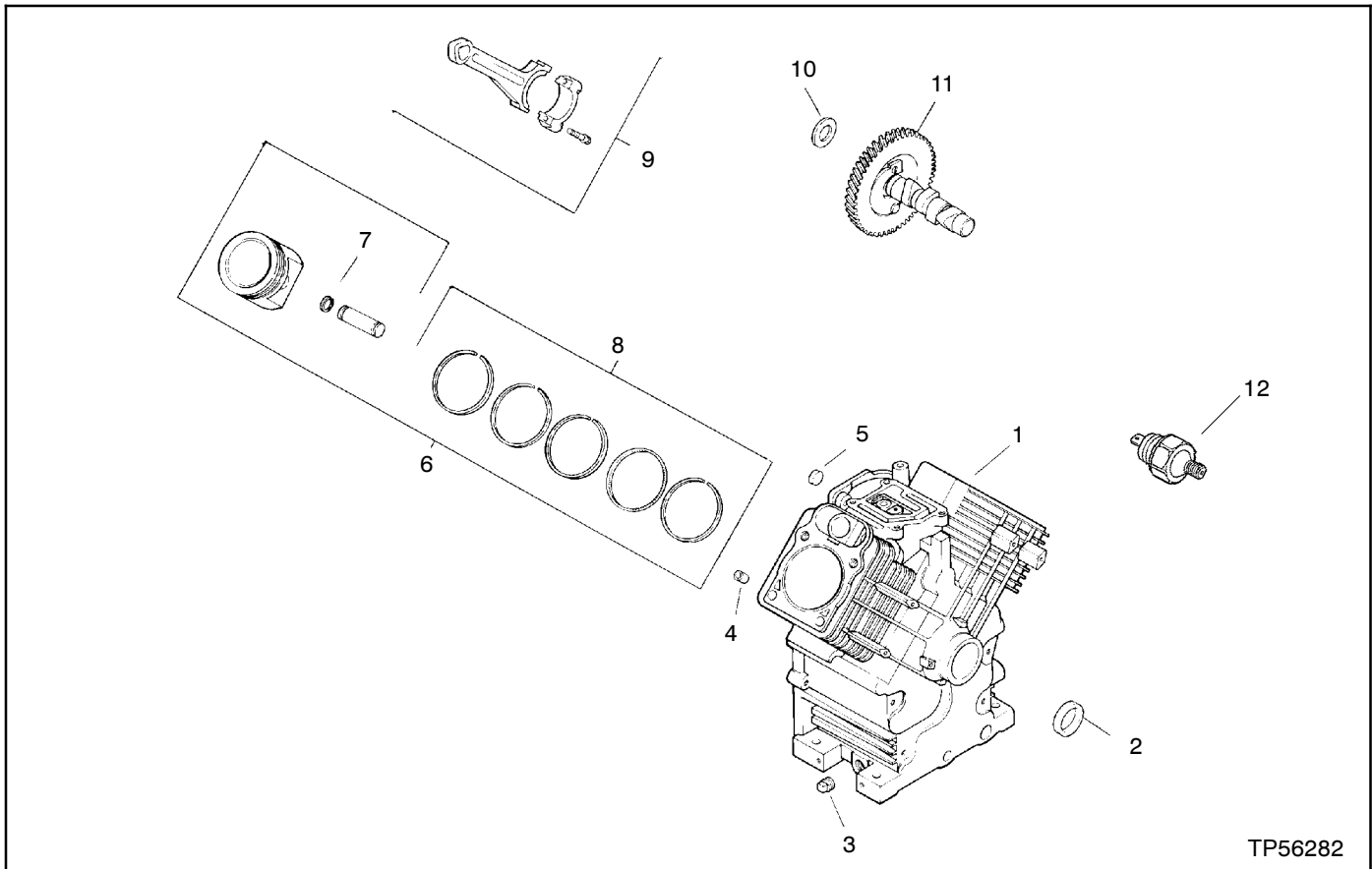
Group 1: Crankshaft



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Item	Part Number	Description	Quantity
			Variation Number
1	24 014 26	Crankshaft	7
2	52 139 09	Plug, cup	1

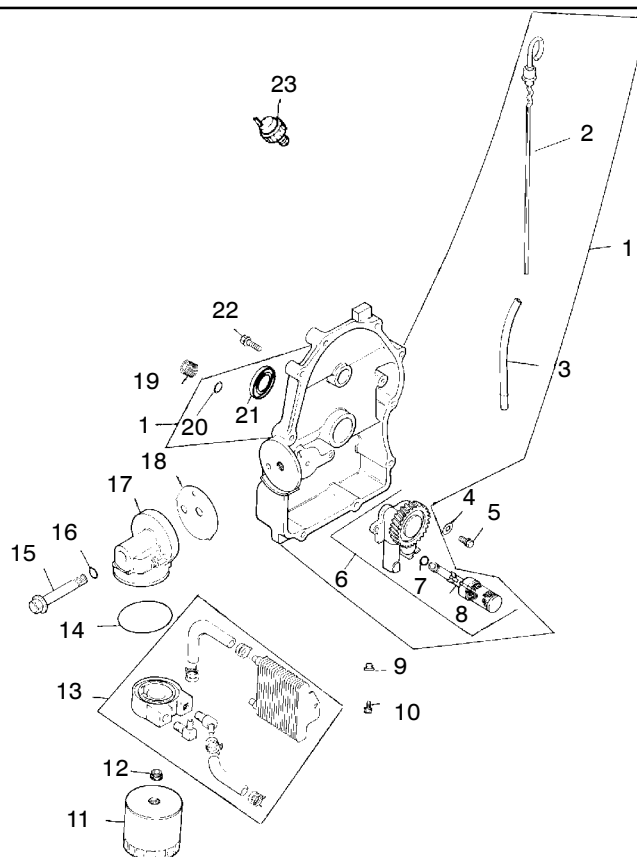
Group 2: Crankcase



TP56282

Item	Part Number	Description	Quantity
			Variation-Number 29
1		Cylinder block (use: miniblock)	1
2	24 032 01	Seal, oil front	1
3	X-75-10	Plug, solid sq. hd. 3/8 NPT	1
4	12 380 03	Pin, dowel locating	6
5	52 139 09	Plug, cup	1
6	24 874 01	Piston w/ring set (std.) (Includes items 7, 8)	2
6	24 874 02	Piston w/ring set (.25mm OS)	2
6	24 874 03	Piston w/ring set (.50mm OS)	2
7	24 018 01	Retainer, piston pin	4
8	24 108 01	Ring set (std.)	2
8	24 108 02	Ring set (.25mm OS)	2
8	24 108 03	Ring set (.50mm OS)	2
9	24 067 05	Connecting rod (std.)	2
9	24 067 02	Connecting rod (.25mm OS)	2
10	12 422 09	Shim, camshaft green	A/R
10	12 422 13	Shim, camshaft black	A/R
10	12 422 07	Shim, camshaft white	A/R
10	12 422 08	Shim, camshaft blue	A/R
10	12 422 10	Shim, camshaft yellow	A/R
10	12 422 11	Shim, camshaft red	A/R
10	12 422 12	Shim, camshaft gray	A/R
11	24 012 05	Camshaft	1
12	24 418 02	Oil temperature switch	1

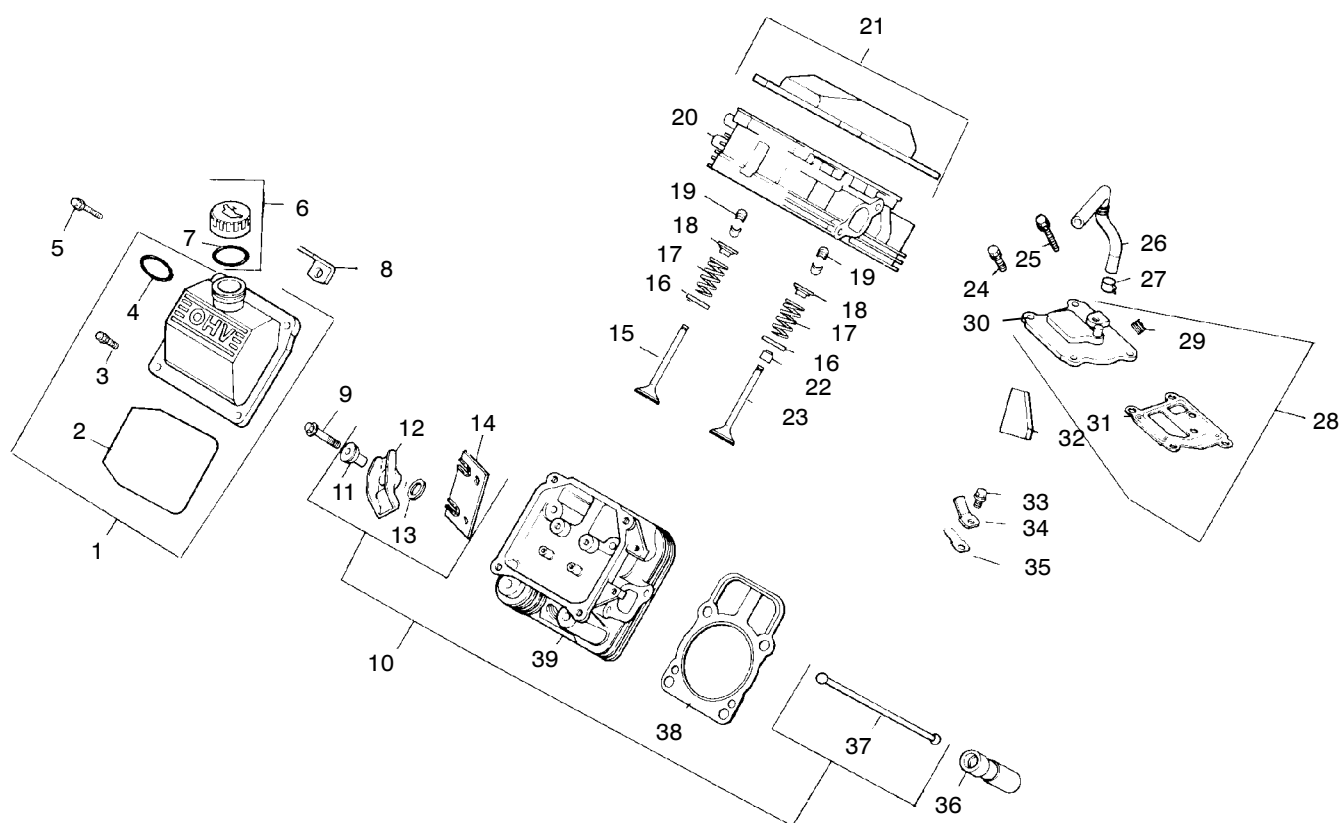
Group 3: Oil Pan/Lubrication



TP57283

Item	Part Number	Description	Quantity
			Variation Number 77
1	24 009 92	Plate, closure assembly (Includes 2, 3, 6-8, 20, 21)	1
2	24 038 03	Dipstick	1
3	24 123 09	Tube, dipstick	1
4	SM-0631005	Washer, plain	2
5	M-0645025	Screw, M6 x 1.0 x 25	2
6	24 393 10	Oil pump assembly (Includes 7-8)	1
7	24 153 01	O-ring, oil pick-up	1
8	24 381 04	Pick-up, oil	1
9	24 100 01	Nut, plastic	2
10	24 086 12	Screw, hex. cap (2)	2
11	12 050 01	Filter, oil	1
12	24 136 02	Nipple, oil filter	1
13	24 594 10	Cooler, oil	1
14	24 153 13	O-ring	1
15	24 211 01	Bolt, oil filter adapter	1
16	24 153 01	O-ring	1
17	24 029 01	Adapter, oil filter	1
18	24 041 12	Gasket, oil filter adapter	1
19	X-75-23	Plug, hex. ctsk. 1/2 NPT	1
20	24 153 08	O-ring	1
21	52 032 08	Seal, oil (PTO end)	1
22	24 086 16	Screw, closure plate M8 x 1.25 x 45	10
23	52 099 06	Switch, oil pressure	1
	25 597 04	Not illustrated , sealant (for cover plate)	1

Group 4: Cylinder Head/Valve/Breather

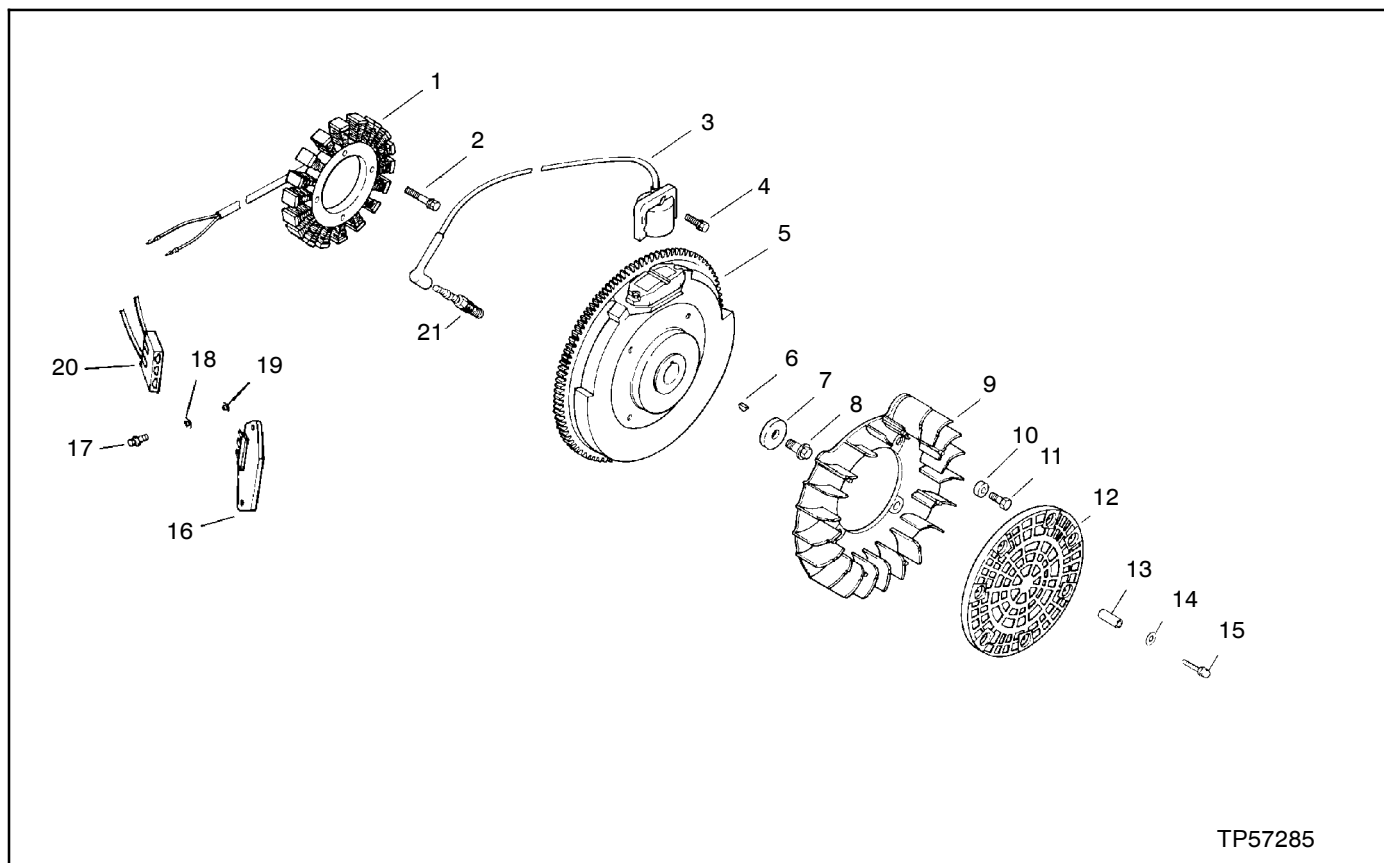


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Group 4: Cylinder Head/Valve/Breather

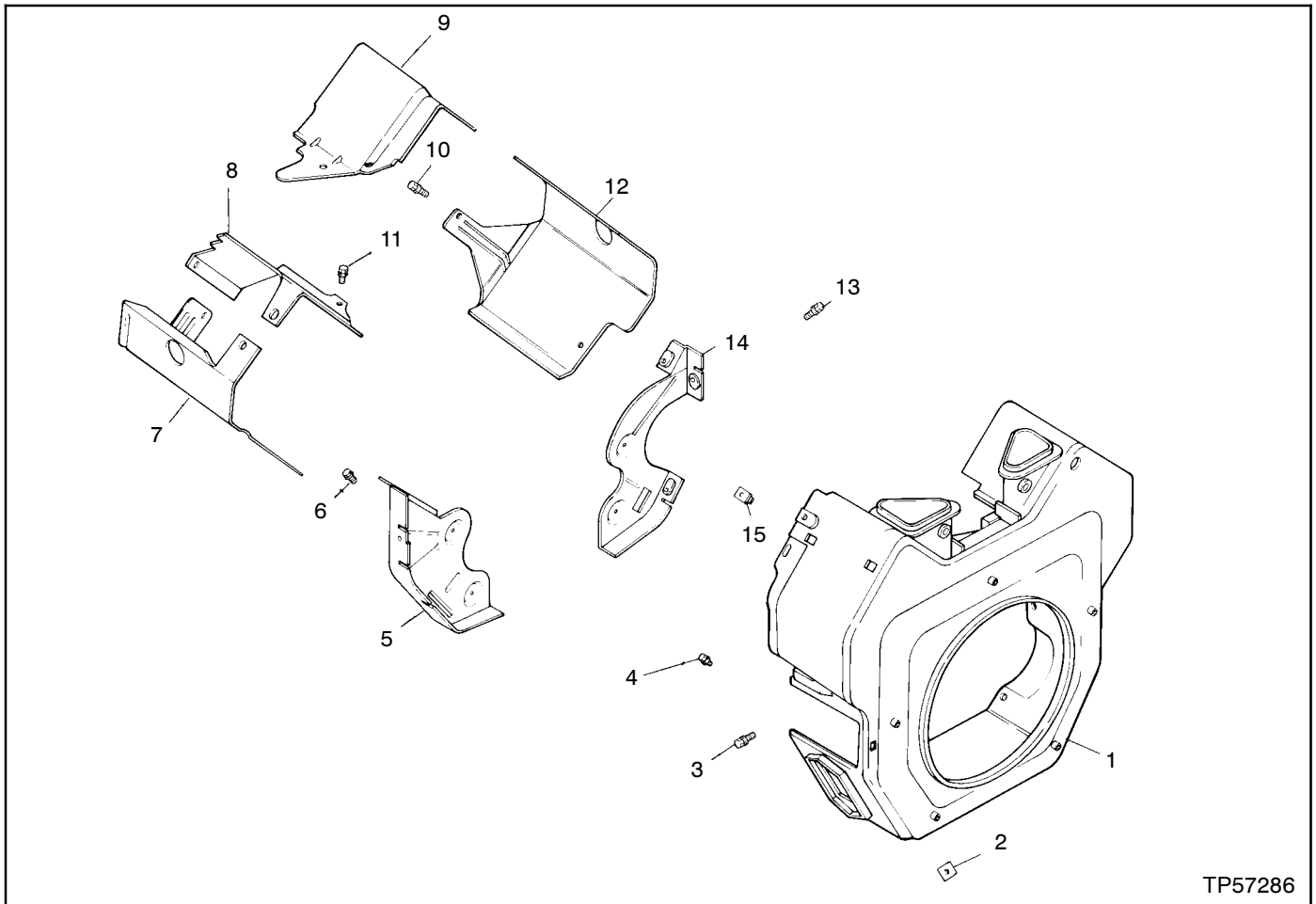
Item	Part Number	Description	Quantity
			Variation Number
			34
1	24 755 75	Kit, valve cover - oil fill (Includes 2-4)	1
2	24 153 12	O-ring	1
3	24 086 32	Screw, shoulder	4
4	24 153 09	O-ring	1
5	12 086 16	Screw, M10 x 1.5 x 91	8
6	24 755 46	Kit, oil fill cap (Includes 7)	1
7	24 755 46	O-ring, oil fill cap	1
8	12 445 05	Eye, lifting	2
9	M-0640034	Screw, M6 x 1.0 x 34	4
10	24 755 61	Kit, valve train (Includes 11-14, 36)	1
11	24 194 02	Pivot, rocker arm	4
12	24 186 03	Arm, rocker	4
13	M-0631005	Washer, plain	4
14	24 146 09	Plate, valve guide	2
15	24 016 01	Valve, exhaust (Std.)	2
15	24 016 02	Valve, exhaust (.25mm OS)	2
16	235011	Retainer, spring	4
17	24 089 02	Spring, valve	4
18	12 173 01	Cap, valve spring	4
19	12 755 03	Kit, retainer	4
20	24 318 09	Head assembly, #1 cylinder	1
21	24 755 74	Kit, valve cover - plain (Includes 2-3)	1
22	24 032 05	Seal, valve stem	2
23	24 017 01	Valve, intake (Std.)	2
23	24 017 02	Valve, intake (.25mm OS)	2
24	M-0645020	Screw, M6 x 1.0 x 20	1
25	M-0645030	Screw, M6 x 1.0 x 30	3
26	24 326 06	Hose, breather	1
27	X-426-9	Clamp, breather	1
28	24 033 01	Kit, breather w/plug (Includes 29-31)	1
29	X-75-23	Plug, hex ctsk 1/8 NPT	1
30	24 096 02	Cover, breather	1
31	24 041 23	Gasket, breather	1
32	24 050 01	Filter, breather	1
33	M-0545010	Screw, breather reed retainer M5 x 0.8 x 10	1
34	12 018 01	Retainer, breather reed	1
35	24 402 03	Reed, breather	1
36	12 351 01	Lifter, valve	4
37	24 411 04	Rod, push	4
38	24 041 08	Gasket, cylinder head	2
39	24 318 10	Head assembly, #2 cylinder	1

Group 5: Ignition and Charging



Item	Part Number	Description	Quantity
			Variation Number 171
1	24 085 01	Stator, 15 amp battery charging	1
2	M-0548025	Screw, stator mtg. M5 x 0.8 x 25	2
3	24 584 01	Module, ignition	2
4	SM-0545020	Screw, module M5 x 0.8 x 20	4
5	24 025 02	Flywheel assembly	1
6	X-42-15	Key	1
7	12 468 03	Washer, flywheel mtg. screw	1
8	12 086 14	Screw, flywheel mounting M10 x 1.5 x 46	1
9	24 157 03	Fan	1
10	12 112 01	Spacer, fan	4
11	M-0639016	Screw, M6 x 1.0 x 16	4
12	24 162 17	Screen, grass	1
13	24 112 04	Spacer, fan	4
14	X-25-92	Washer, plain 1/2	4
15	M-0403025	Screw, grass screen M4 x 0.7 x 24	4
16	25 403 03	Rectifier-regulator, battery charging	1
17	24 086 18	Screw, Phillips	2
18	X-25-63	Washer, plain 1/4	1
19	X-25-92	Washer, plain 1/2	2
20	236602	Connector, battery charging (3 contact)	1
21	12 132 02-S	Spark plug	2
	24 176 43	Not Illustrated , harness, wire	1
	24 518 04	Not Illustrated , lead, green, (3" - 18 gauge)	1
	24 113 18	Not Illustrated , decal, grass screen	1

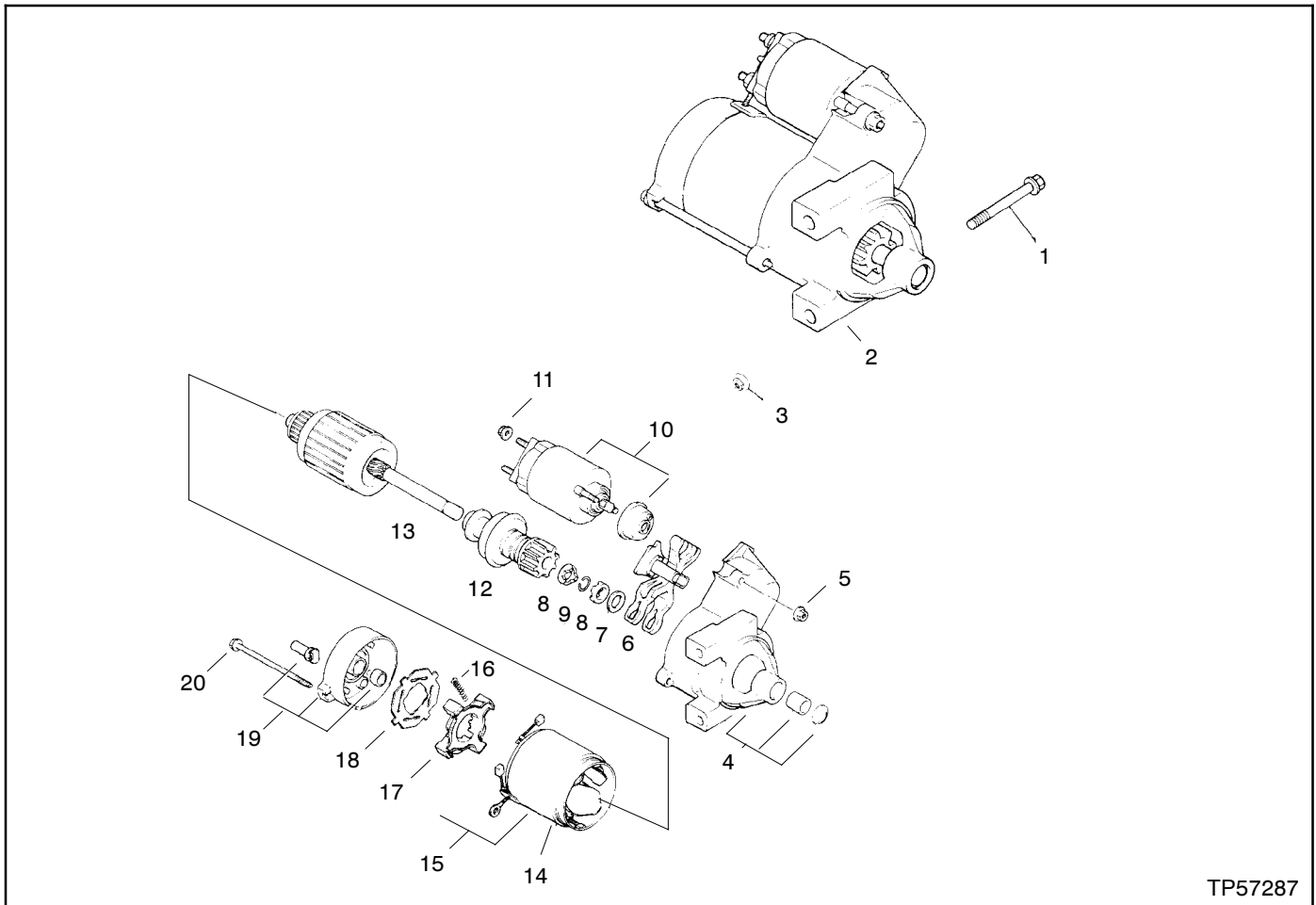
Group 6: Blower Housing and Baffle



TP57286

Item	Part Number	Description	Quantity
			Variation Number 99
1	24 027 43	Housing, blower	1
2	24 100 01	Nut, plastic	2
3	SM-0545016	Screw, M5 x 0.8 x 16	5
4	M-0545010	Screw, M5 x 0.8 x 10	2
5	24 146 11	Plate, backing #2 side	1
6	SM-0645016	Screw, M6 x 1.0 x 16	4
7	24 063 20	Baffle, cylinder barrel #2 side	1
8	24 063 17	Baffle, valley #2 side	1
9	24 063 24	Baffle, valley #1 side	1
10	SM-0545016	Screw, M5 x 0.8 x 16	2
11	SM-0645016	Screw, M6 x 1.0 x 16	4
12	24 063 08	Baffle, cylinder barrel #1 side	1
13	M-0551016	Screw, M5 x 0.8 x 14	1
14	24 146 08	Plate, backing #1 side	1
15	24 100 02	Nut, plastic	2
	24 113 12	Not Illustrated decal, horsepower	

Group 7: Starting



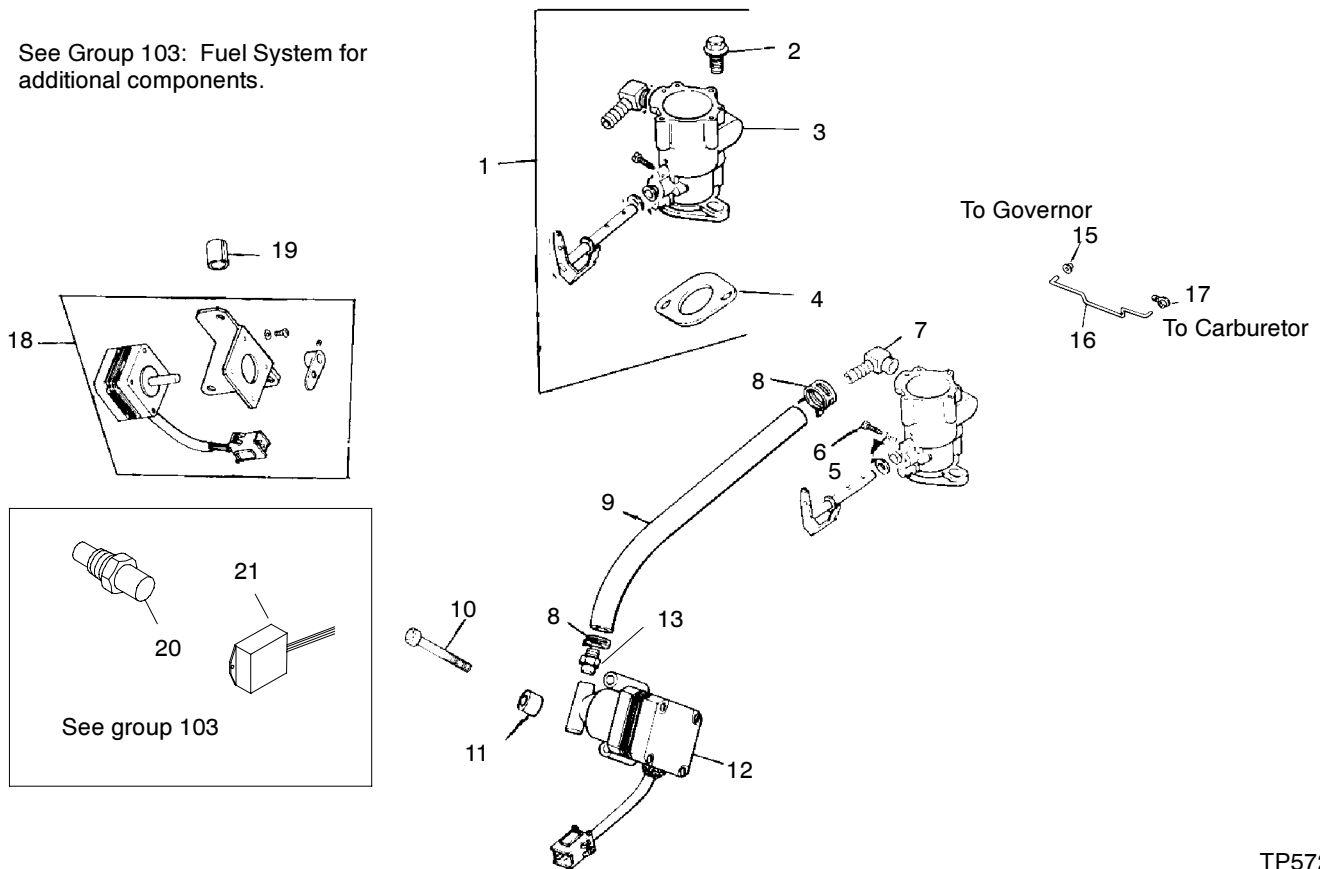
TP57287

Item	Part Number	Description	Quantity
			Variation Number
1	M-0839080	Screw, M8 x 1.25 x 80	2
2	24 098 01	Starter, solenoid shift type (Includes 4-20)	1
3	M-0841080	Nut, M8 x 1.25	1
4	24 081 04	Drive, end cap	1
5	52 100 10	Nut, starter	2
6	12 090 10	Lever, starter drive	1
7	52 468 14	Washer, thrust	1
8	52 100 08	Nut, stop collar	2
9	52 141 03	Ring, retainer	1
10	52 435 02	Solenoid	1
11	52 100 09	Nut, starter	1
12	12 239 01	Drive, pinion	1
13	12 170 03	Armature, starter	1
14	12 471 01	Frame, starter	1
15	52 221 01	Kit, brush & spring (Includes 16)	1
16	52 089 09	Spring, brush	4
17	52 323 03	Holder, brush	1
18	52 168 01	Insulator	1
19	24 301 01	Commutator, end cap	1
20	52 211 05	Bolt, thru	2

Group 8: Carburetor

Group 9: Engine Controls

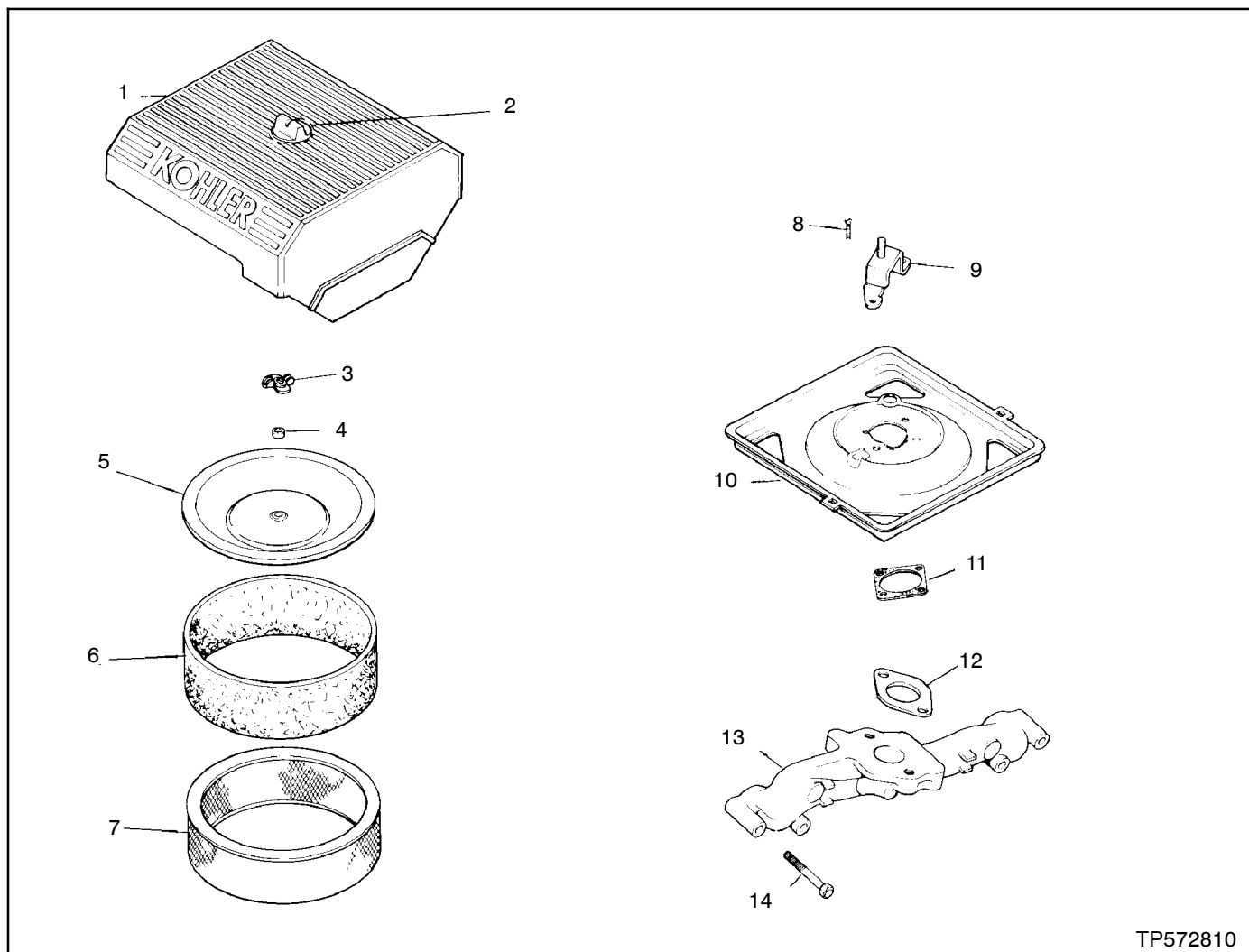
See Group 103: Fuel System for additional components.



TP57288

Item	Part Number	Description	Quantity		
			Variation Number 100	53	77
1	24 853 30	Kit, carburetor w/gasket (Includes 2-4)	1		
2	M-0851030	Screw	2		
3	24 053 30	Carburetor assembly (Includes 5-7)	1		
4	24 041 26	Gasket, carburetor	1		
5	232555	Spring, idle adjust screw	1		
6	232556	Screw, idle adjust	1		
7	24 294 05	Fitting, elbow	1		
8	X-426-3	Clamp, hose	2		
9	24 353 05	Line, fuel special (do not substitute)	1		
10	M-0639045	Screw, M6 x 1.0 x 45	2		
11	265861	Space	2		
12	24 462 06	Valve, fuel metering	1		
13	24 294 07	Fitting	1		
15	25 158 08	Engine Controls (Group 9) bushing, linkage		1	
16	24 079 09	Engine Controls (Group 9) linkage, throttle		1	
17	25 158 11	Engine Controls (Group 9) bushing, throttle linkage		1	
18	24 310 02	Electronic Governor (from Group 3) governor, electronic			1
19	25 112 09	Electronic Governor (from Group 3) spacer			3
20	See Group 103	Electronic Governor (from Group 3) oxygen sensor and emissions controller			1
21	See Group 103	Electronic Governor (from Group 3) oxygen sensor and emissions controller			1

Group 10: Air Intake



TP572810

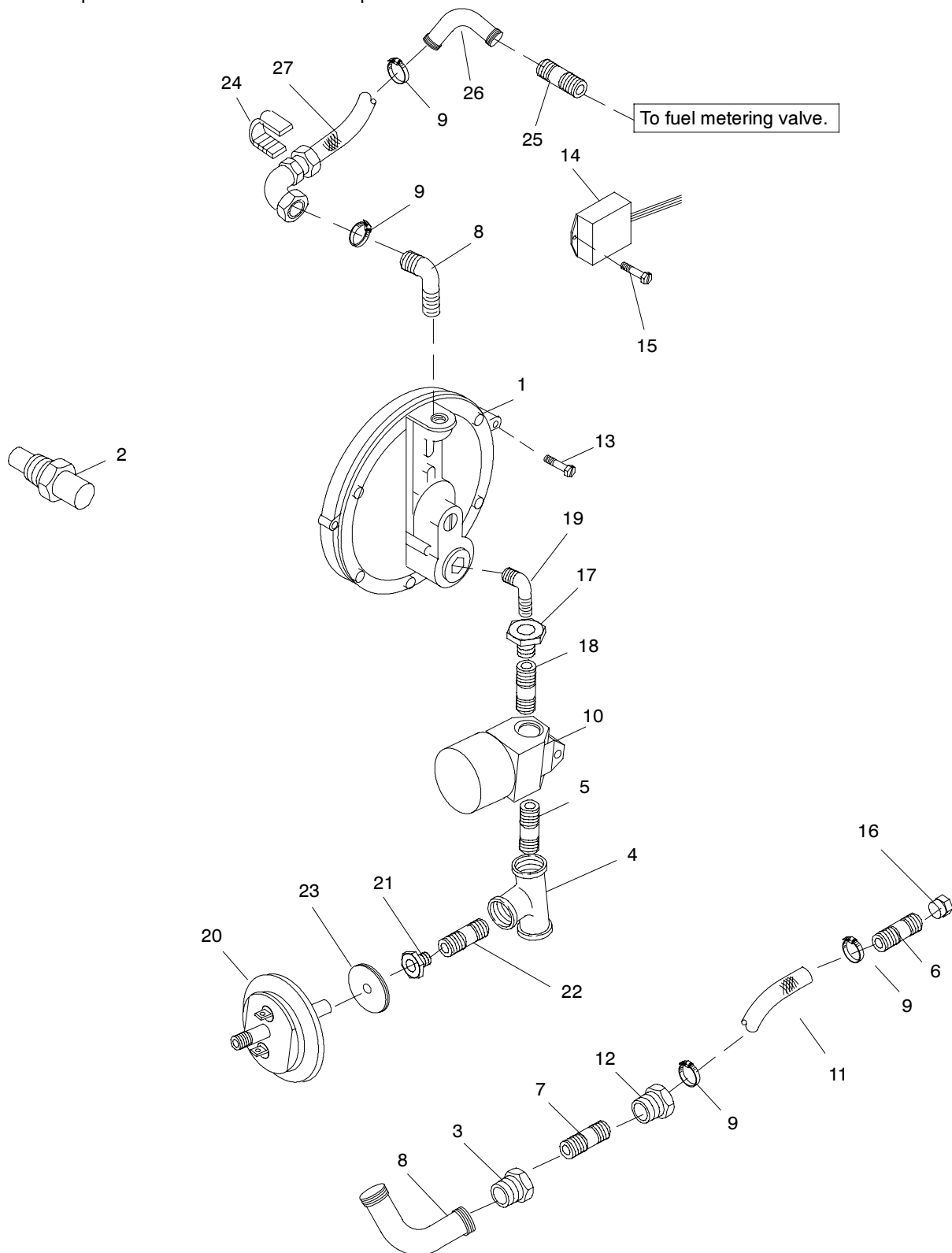
Item	Part Number	Description	Quantity
			Variation Number 20
1	24 096 24	Cover, air cleaner	1
2	25 341 02	Knob, cover	1
3	12 100 01	Nut, wing	1
4	24 032 03	Seal, air intake	1
5	24 096 01	Cover, inner air cleaner	1
6	24 083 02	Element, precleaner	1
7	47 083 03	Element, air cleaner	1
8	X-97-2	Screw, slotted hex. hd. 10 x 1/2	4
9	24 126 49	Bracket, air cleaner	1
10	24 094 12	Base, air cleaner	1
11	277093	Gasket, air cleaner base	3
12	24 041 01	Gasket, intake manifold	2
13	24 164 18	Manifold, intake	1
14	M-0639055	Screw, M6 x 1.0 x 55	4

Gasket Set

Item	Part Number	Description	Quantity
			Variation Number
1	24 755 03	Gasket set (includes all the following)	1
	230046	Seal, breather	1
	12 032 01	Seal, valve stem	1
	12 153 01	O-ring	1
	12 153 02	O-ring	1
	12 153 03	O-ring	1
	24 032 01	Seal, front	1
	24 032 03	Seal, inner	1
	24 032 04	Seal	1
	24 032 05	Seal, valve stem	2
	24 041 01	Gasket, intake manifold	2
	24 041 02	Gasket, exhaust	2
	24 041 06	Gasket, air cleaner	1
	24 041 08	Gasket, cylinder head	2
	24 041 12	Gasket, oil filter	1
	24 041 13	Gasket, fuel	1
	24 041 14	Gasket, air cleaner	1
	24 041 15	Gasket, carburetor	1
	24 041 16	Gasket, cylinder head	2
	24 041 23	Gasket, breather	1
	24 153 08	O-ring	1
	52 032 08	Seal, oil	1

Group 103: Fuel System

See Group 8: Carburetor for additional components.



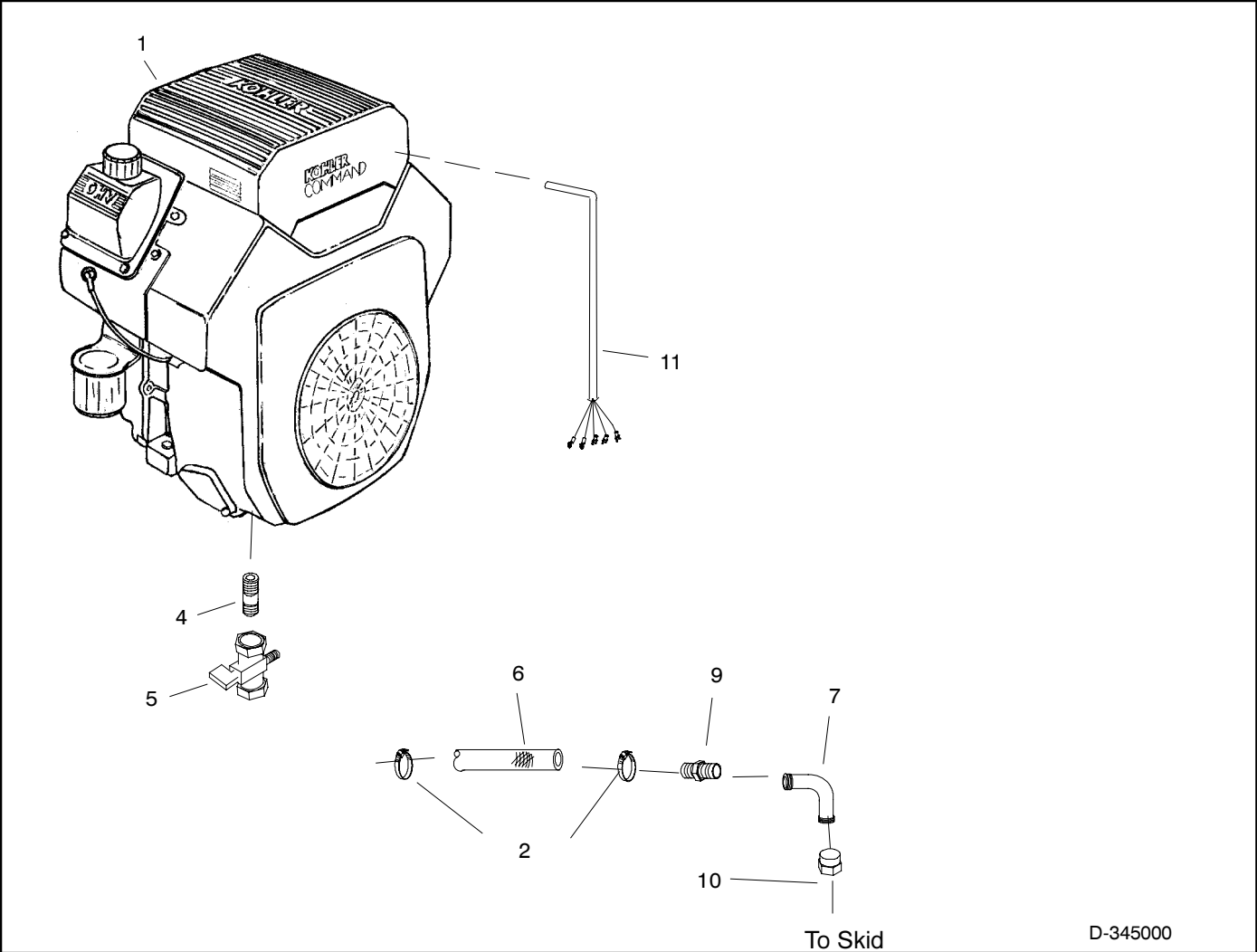
D-345000

Group 103: Fuel System

Item	Part Number	Description	Quantity
			Variation Number
			5
1	A-227531	Gas pressure regulator assembly	1
2	A-345052	Sensor, oxygen	1
3	X-202-28	Bushing, reducer 3/8	1
4	X-203-13	Tee, pipe 1/2	1
5	X-209-2	Nipple, 1/2 x 1-3/16	1
6	X-209-11	Nipple, pipe 1/2 x 3/4	1
7	X-216-20	Coupling, pipe	1
8	X-391-13	Connector, elbow	2
9	X-426-18	Clamp, hose 1/2-1-13/32	4
10	227648	Solenoid valve, gas	1
11	X-6242-6	Line, flexible fuel	1
12	X-582-5	Connector, hose	1
13	#	Hardware, 1/4-20	2
14	A-345055	Emissions controller	1
15	X-67-60	Screw, 8-32 x 1/2	2
16	X-75-3	Plug, pipe 1/2	1
17	X-202-12	Bushing, reducer 1/4 x 1/2	1
18	X-220-5	Nipple, pipe 1/4 x 7/8	1
19	X-211-6	Elbow, street 1/4	1
20	GM70537	Switch, vacuum	1
21	X-202-29	Bushing, reducer 1/8 x 1/2	1
22	X-217-6	Nipple, pipe 1/8 x 3/4	1
23	X-284-2	Grommet, 1-5/8	1
24	X-6033-3	Grommet, nylon	1
25	X-582-26	Connector, hose	1
26	267428	Elbow, 45° street	1
27	X-6242-6	Line, flexible fuel	1

Common hardware; procure locally

Group 105: Engine



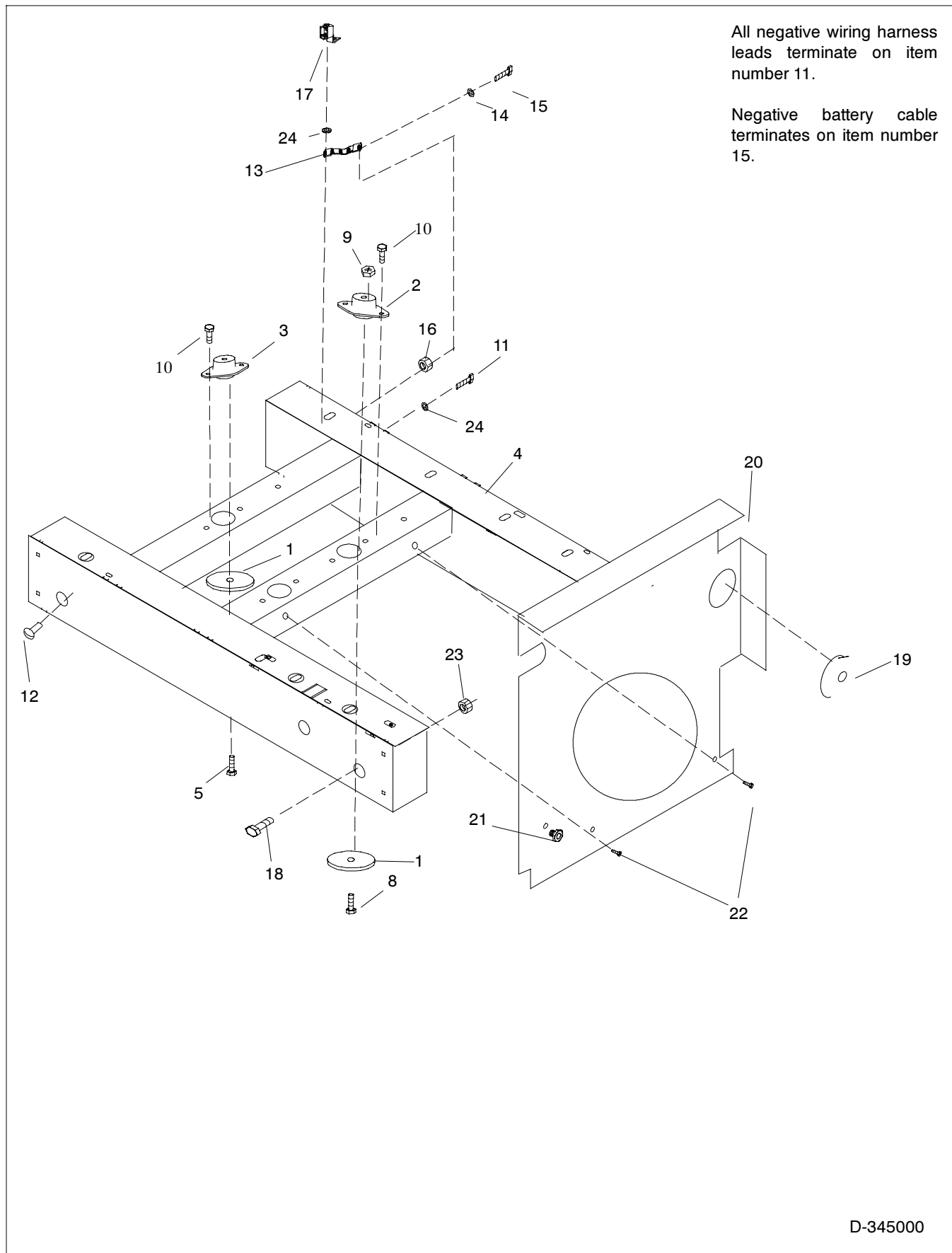
D-345000

Item	Part Number	Description	Quantity	
			Variation Number	
			4	GR1
1	A-337071	Engine Assembly, Kohler Engine assembly components illustrated in groups 1-10	1	
1	GM67069	Engine, Kohler CH640EP COM6		1
2	X-426-9	Clamp, hose	2	2
4	X-204-9	Nipple, pipe 3/8 x 1	1	1
4	X-216-23	Coupling, pipe (3/8"npsc)	1	1
5	359653	Valve, oil drain (3/8-18 npt)	1	1
6	X-612-27	Hose, Rubber, Straight, .375" ID	1	1
7	X-211-1	Elbow, Street(90 deg x 1/2"nptf)	1	1
9	X-582-4	Connector, hose	1	1
10	X-75-3	Plug, pipe (1/2" nptf)	1	1
11	345310	Harness, Engine Wiring, COM6	1	1

Group 107: Nameplate and Decals

Item	Part Number	Description	Quantity
			Variation Number
			8
1	227620	Decal, flag	1
2	249808	Decal, warning rotating parts	1
3	249809	Decal, caution hot engine	1
4	344486	Decal, CE	1
5	345331	Decal, warning	1
6	GM15296	Decal, U.L.	1
7	GM15299	Decal, Rainproof Enclosure	1
8	GM17358	Decal, Dangerous Voltage	1

Group 109: Skid and Plant Mounting

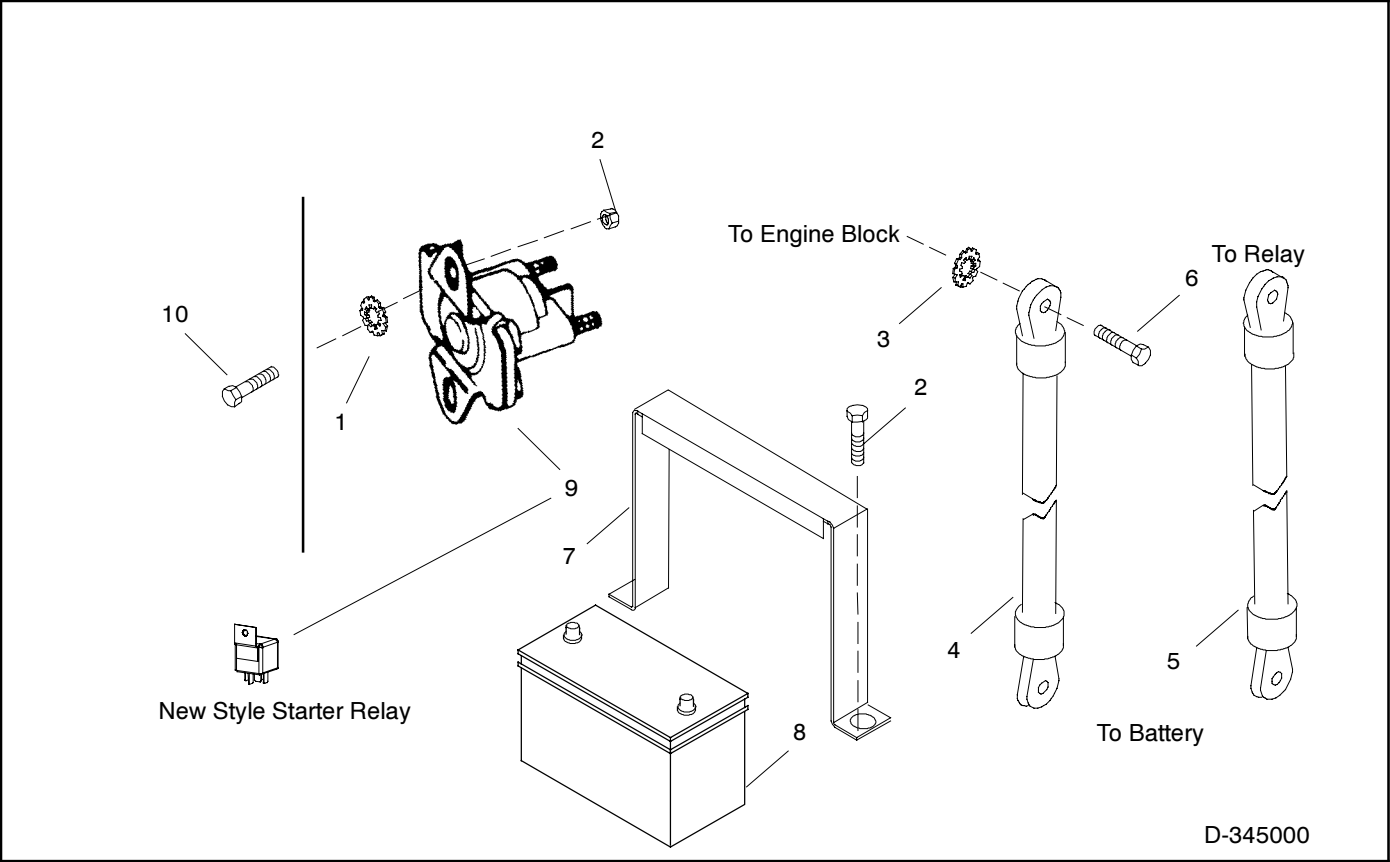


Group 109: Skid and Plant Mounting

Item	Part Number	Description	Quantity
			Variation Number
			5
1	X-25-96	Washer, plain .4 ID x .75 OD	3
2	258569	Mount, vibro (engine end)	2
3	229127	Mount, vibro (alternator end)	1
4	345245	Skid	1
5	X-6238-17	Bolt, hex cap 3/8-16	1
6	345246	Skid enclosure (left) (not shown)	1
7	345247	Skid enclosure (right) (not shown)	1
8	X-6238-9	Bolt, hex cap 3/8-16	1
9	X-101-13	Nut, lock 3/8-16	3
10	#	Hardware, 5/16-18	6
11	X-6050-3	Screw, hex head cap M8-.125	1
12	X-301-19	Plug, button	4
13	290418	Strap, ground	1
14	X-22-49	Washer, lock 1/4 stainless	1
15	X-6050-3	Screw, hex head cap M8-.125	1
16	#	Hardware, 1/4-20	2
17	X-377-12	Connector, cable	1
18	295008	Bolt, carriage 1/4-20	8
19	X-284-31	Grommet	1
20	345254	Panel, inner	1
21	X-634-12	Bushing	1
22	#	Hardware, 1/4-20	2
23	#	Nut, 1/4-20	8
24	X-22-16	Washer, lock 5/16 stainless	2

Common hardware; procure locally.

Group 112: Starter

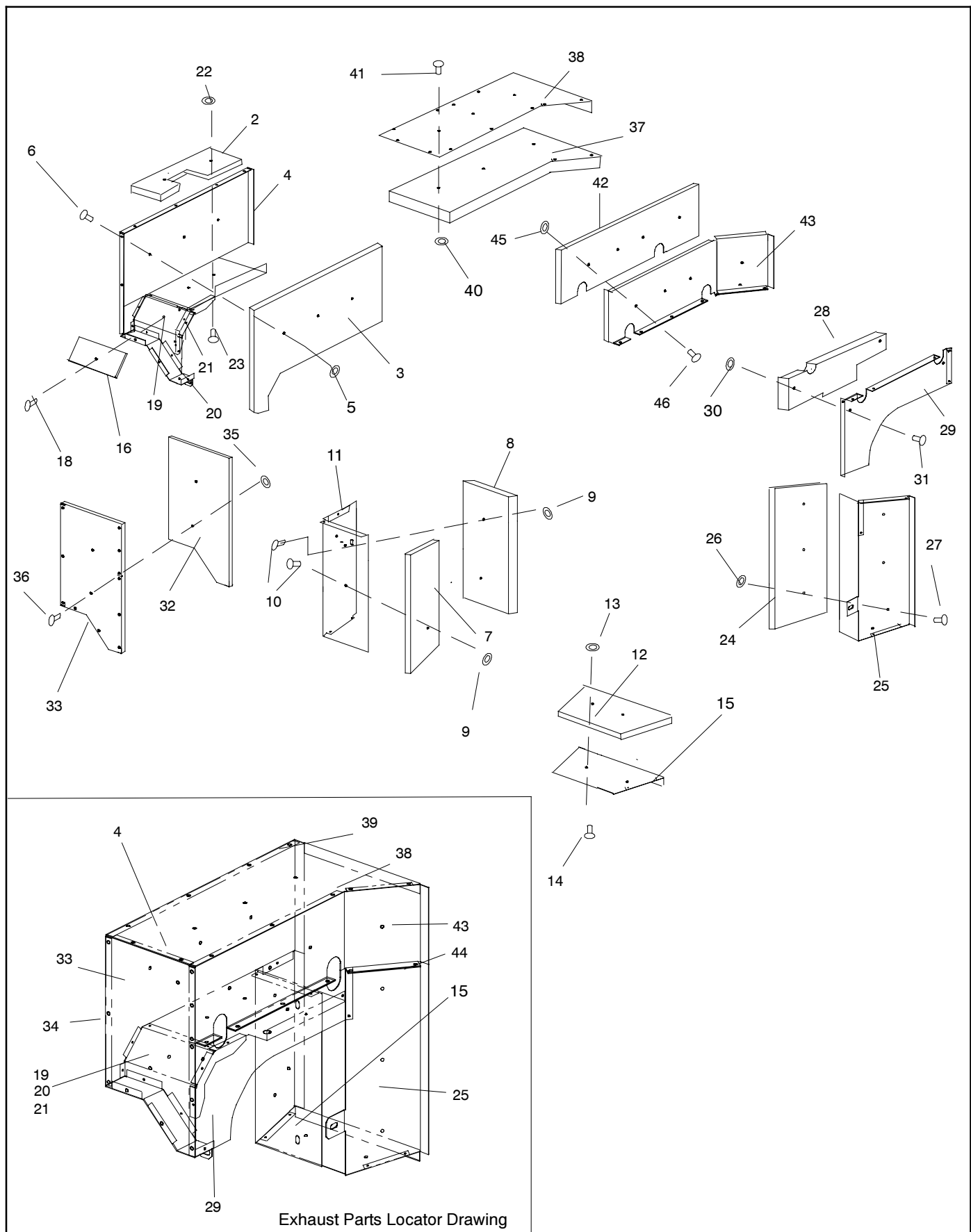


Item	Part Number	Description	Quantity
			Variation Number
1	X-22-12	Washer, shakeproof 1/4	2
2	#	Hardware, 1/4-20	2
3	X-22-16	Washer, lock 5/16	1
4	X-545-45	Cable, battery (black)	1
5	X-545-42	Cable, battery (red)	1
6	X-6050-3	Screw, hex head M8-.125	1
7	345255	Clamp, battery	1
8	345309	Battery (500 cold cranking amps)	1
9	345079	Relay, cranking	1
9	GM50772	Relay Service Kit for 345079	1
9	GM28787	Relay (new style)	1
10	#	Hardware, 1/4-20	2
11	GM20743	Boot, starter terminal (not shown)	1
12	GM20748	Boot, battery lug (not shown)	1

Common hardware; procure locally

Notes

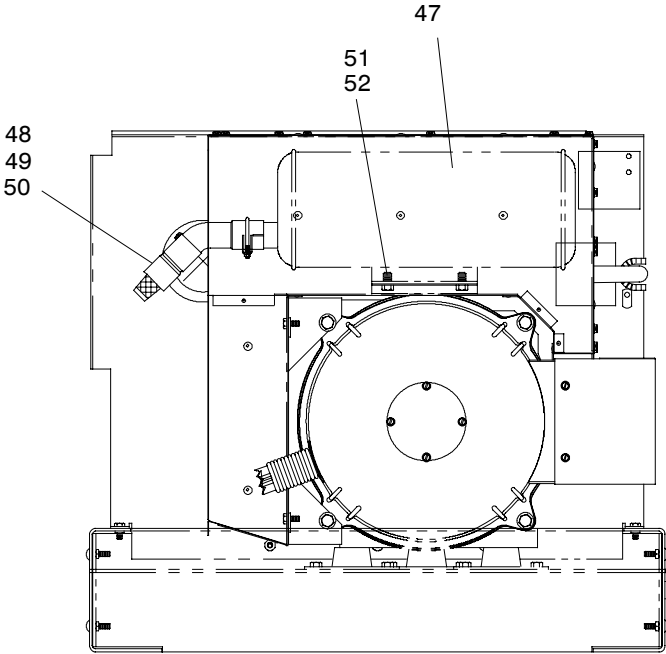
Group 116: Exhaust



Group 116: Exhaust

Item	Part Number	Description	Quantity
			Variation Number
			4
1	345296	Kit, reflective liner, includes items 2, 3, 7, 8, 12, 16, 24, 28, 32, 37, 42	1
2	345301	Liner, reflective	1
3	345302	Liner, reflective	1
4	345262	Duct, air	1
5	X-25-45	Washer, plain .2 ID x .75 OD	3
6	X-781-15	Rivet, pop .595	3
7	345299	Liner, reflective	1
8	345300	Liner, reflective	1
9	X-25-45	Washer, plain .2 ID x .75 OD	3
10	X-781-15	Rivet, pop .595	3
11	345270	Duct, air	1
12	345297	Liner, reflective	1
13	X-25-45	Washer, plain .2 ID x .75 OD	2
14	X-781-15	Rivet, pop .595	2
15	345260	Duct, air	1
16	345304	Liner, reflective	1
17	X-25-45	Washer, plain .2 ID x .75 OD (not shown)	1
18	X-781-15	Rivet, pop .595	1
19	345266	Duct, air	1
20	345271	Duct, air	1
21	345269	Duct, air	1
22	X-25-45	Washer, plain .2 ID x .75 OD	2
23	X-781-15	Rivet, pop .595	2
24	345298	Liner, reflective	1
25	345267	Duct, air	1
26	X-25-45	Washer, plain .2 ID x .75 OD	3
27	X-781-15	Rivet, pop .595	3
28	345303	Liner, reflective	1
29	345263	Duct, air	1
30	X-25-45	Washer, plain .2 ID x .75 OD	2
31	X-781-15	Rivet, pop .595	2
32	345306	Liner, reflective	1
33	345265	Duct, air	1
34	X-6216-1	Screw, #10-24	11
35	X-25-45	Washer, plain .2 ID x .75 OD	2
36	X-781-15	Rivet, pop .595	2
37	345307	Liner, reflective	1
38	345261	Duct, air	1
39	X-6216-1	Screw, #10-24	11
40	X-25-45	Washer, plain .2 ID x .75 OD	3
41	X-781-15	Rivet, pop .595	3
42	345305	Liner, reflective	1
43	345264	Duct, air	1
44	X-6216-1	Screw, #10-24	6
45	X-25-45	Washer, plain .2 ID x .75 OD	4
46	X-781-15	Rivet, pop .595	4

Group 116: Exhaust, cont.

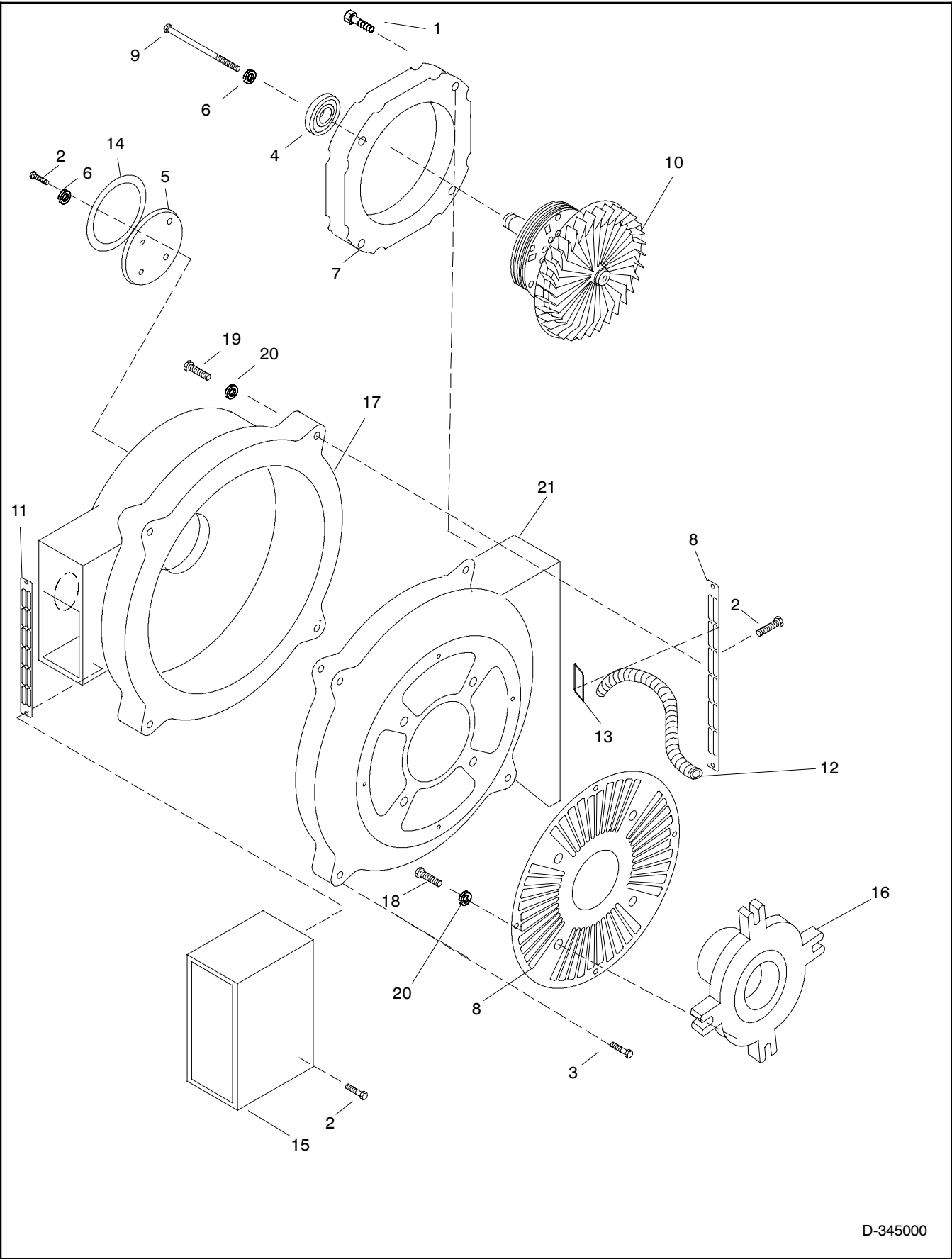


D-345000

Group 116: Exhaust, cont.

Item	Part Number	Description	Quantity
			Variation Number
			4
47	345231	Muffler	1
48	345257	Pipe, tail	1
49	X-722-8	Clamp, U	1
50	GM39500	Arrestor, spark	1
51	#	Hardware, 3/8-16	2
52	345276	Bracket, exhaust mounting	2

Group 201: Generator and Mounting



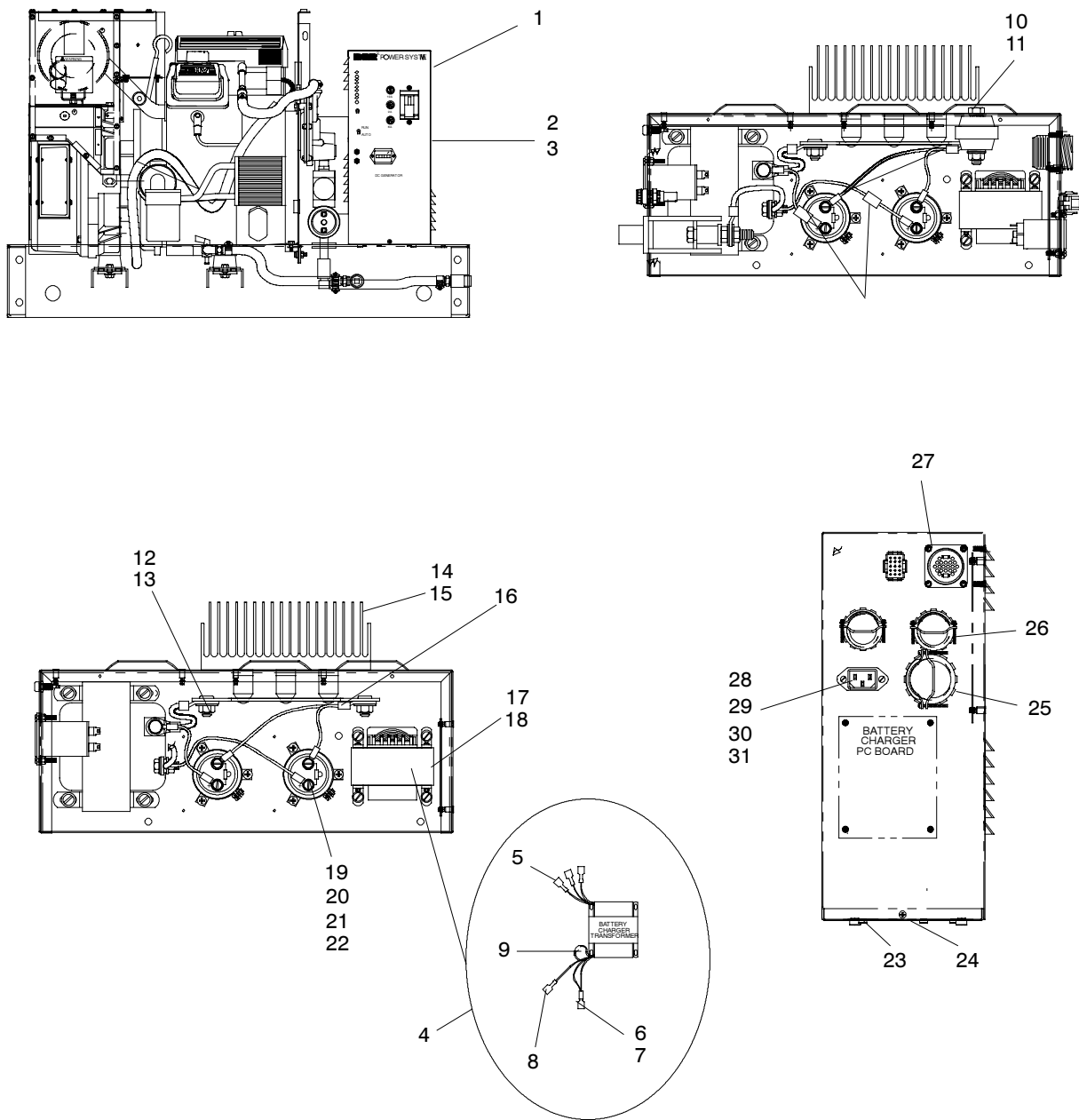
D-345000

Group 201: Generator and Mounting

Item	Part Number	Description	Quantity	
			Variation Number	
			8	9
1	X-55-39	Screw, socket head cap 1/4-20 x 2	4	4
2	X-6216-1	Screw, serrated flange #10-24 x 0.50	10	10
3	X-67-133	Screw, self-tapping 10-24 x .375	4	4
4	X-758-15	Bearing, ball	1	1
5	345024	Cover, bearing	1	1
6	#	Washer, 3/8	4	4
7	345344	Stator, wound	1	
7	345227	Stator, wound		1
8	345071	Guard, adapter	1	1
9	345222	Bolt, thru 3/8-16 x 8	1	1
10	A-345225	Rotor assembly	1	1
11	345135	Guard, intake	1	1
12	X-6003-117	Conduit, convoluted	1	
12	X-6003-116	Conduit, convoluted		1
13	X-6090-4	Grommet, nylon	1	1
14	229110	O-ring	1	1
15	345224	Duct, intake	1	1
16	345324	Spacer, alternator adapter	1	1
17	345343	Bracket, end	1	1
18	X-6238-6	Screw, 3/8-16 x 2	4	4
19	X-6238-5	Screw, 3/8-16 x 1.5	4	4
20	#	Washer, 3/8	8	8
21	345226	Adapter, alternator	1	1

Common hardware; procure locally.

Group 301: Controller and Mounting



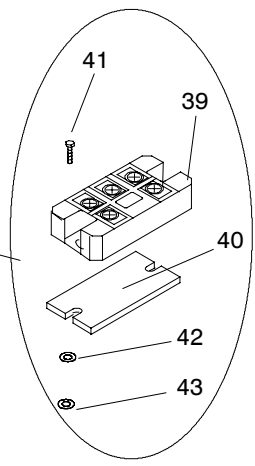
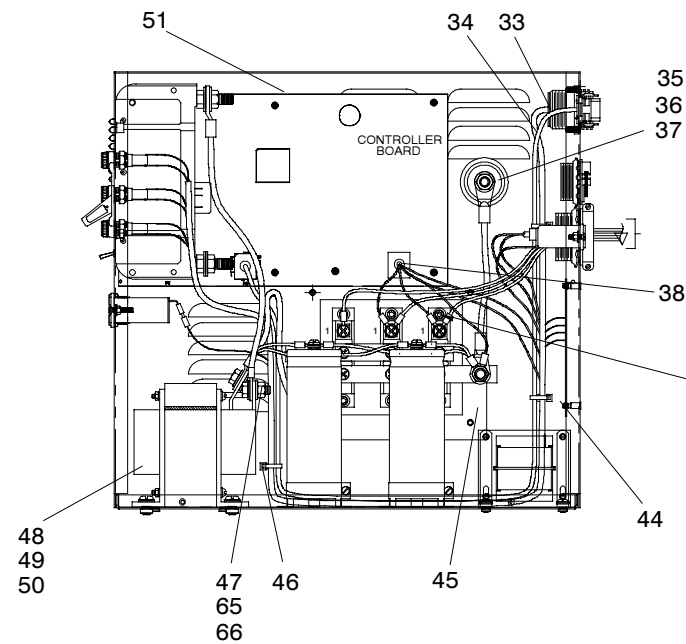
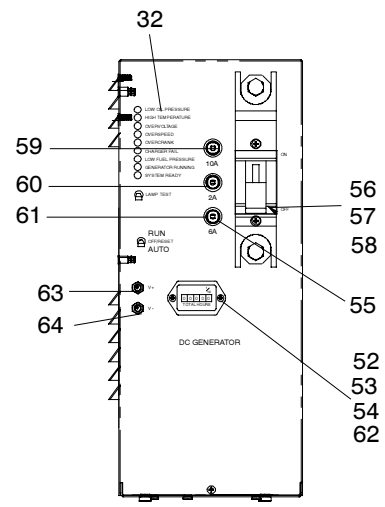
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Group 301: Controller and Mounting

Item	Part Number	Description	Quantity	
			Variation Number	Number
			7	8
1	A-345233	Controller assembly (includes items 4-67)	1	
1	A-345315	Controller assembly (includes items 4-67)		1
2	345230	Panel, controller (side cover)	1	1
3	X-67-142	Screw, thread forming #8 x .375	6	6
4	345186	Transformer, battery charger (includes items 5-9)	1	1
5	X-431-30	Terminal, push-on 1/4 16-14	3	3
6	X-431-30	Terminal, push-on 1/4 16-14	1	1
7	X-6079-2	Tubing, (heat shrink) .32 ID	1	1
8	X-431-25	Terminal, push-on 1/4 22-18	1	1
9	X-367-3	Insulink	1	1
10	X-6238-37	Bolt, hex cap 3/8-16 x .5	1	1
11	X-22-14	Washer, lock 3/8	1	1
12	#	Nut, 3/8-16	2	
13	#	Washer, 3/8	2	
14	345236	Sink, heat extrusion	1	
14	345317	Sink, heat extrusion		1
15	X-50-2	Screw, r.h.m. 10-32 x 3	4	
15	X-50-73	Screw, r.h.m. 10-32 x 3		4
16	345328	Harness, wiring (capacitor connection)	1	
16	345338	Harness, wiring (capacitor connection)		1
17	#	Screw, #10-32	4	4
18	#	Washer, #10	4	4
19	337376	Bracket, cap mounting	2	
19	345322	Bracket, cap mounting		2
20	345143	Resistor 3.9K 2W	2	2
21	345169	Capacitor	2	
21	345321	Capacitor		2
22	X-67-143	Screw, thread forming #6 X .375	6	6
23	345228	Base, controller	1	1
24	X-67-142	Screw, thread forming #8 x .375	4	4
25	X-252-26	Connector, cable	1	1
26	X-252-25	Connector, cable	2	2
27	X-71-2	Nut, hex 6-32	4	4
28	345184	Inlet, AC charger	1	1
29	X-49-41	Screw, pan head #4-40 x .625	2	2
30	X-22-24	Washer, lock #4	2	2
31	X-74-6	Nut, hex zinc 4-40	2	2

Common hardware; procure locally

Group 301: Controller and Mounting, cont.



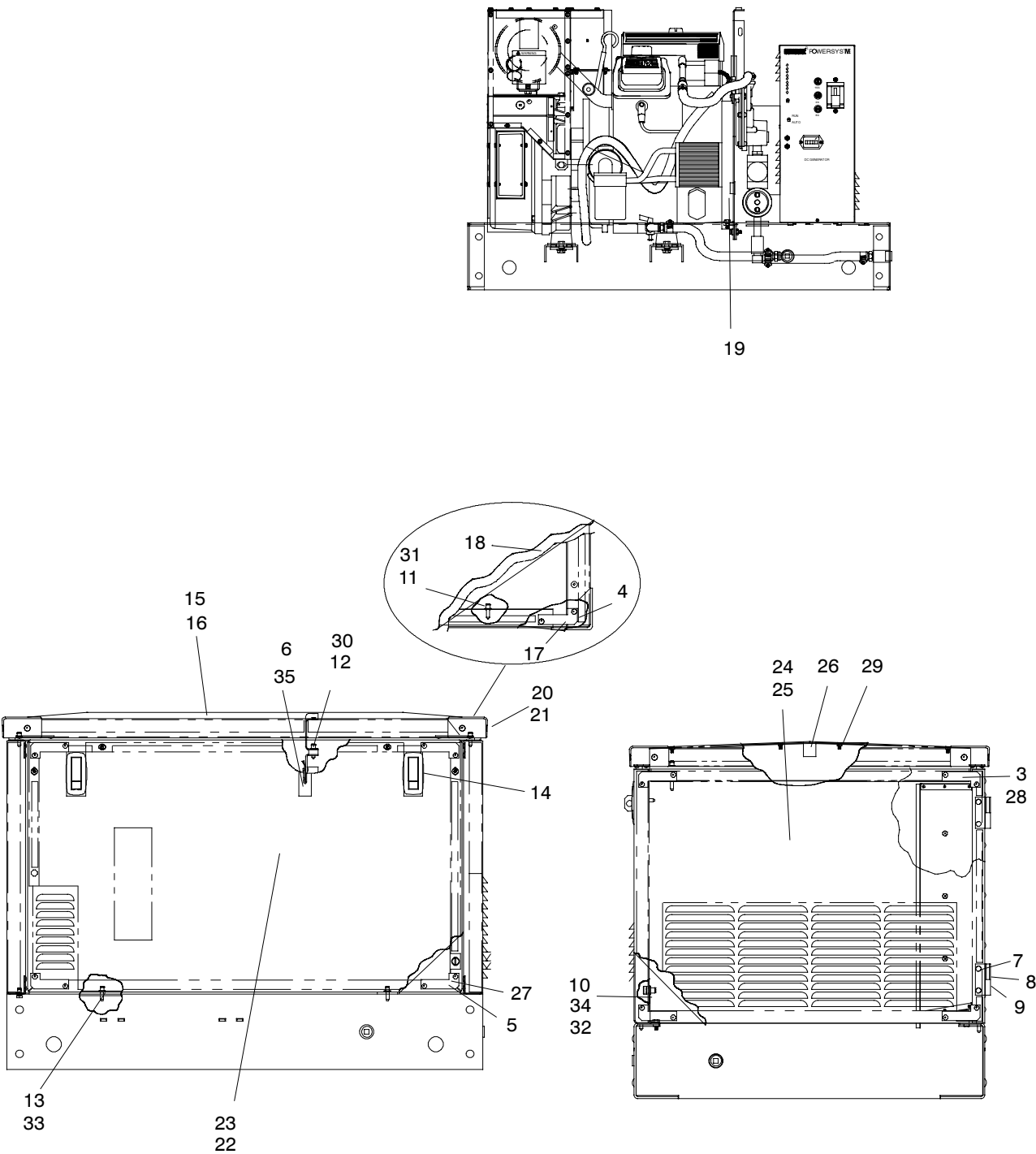
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Group 301: Controller and Mounting, cont.

Item	Part Number	Description	Quantity	
			Variation Number	7
			8	
32	345311	Silkscreen, controller	1	1
33	345240	Harness, engine	1	1
34	345242	Harness, communication	1	1
35	233568	Insulation, standoff (negative connection)	1	1
36	X-352-124	Stud, 3/8-16 x 1	1	1
37	#	Nut, 3/8	1	1
38	345241	Harness, sensing	1	1
39	345237	Module, diode 600V	3	
39	345316	Module, diode 1 kV		1
40	345239	Insulator, module	3	
40	337465	Insulator, module		1
41	X-55-4	Screw, hex socket head #10-32 x .625	6	
41	X-55-4	Screw, hex socket head #10-32 x .625		2
42	X-25-115	Washer, flat .20 ID .44 OD	6	
42	X-25-115	Washer, flat .20 ID .44 OD		2
43	X-19-4	Washer, #10	6	
43	X-19-4	Washer, #10		2
44	A-345213	Circuit board, battery charger	1	1
45	345235	Bar, bus	2	
45	345318	Bar, bus		2
46	X-468-11	Tie, cable	3	3
47	#	Bolt, 5/16	2	2
48	345168	Inductor	1	
48	345323	Inductor		1
49	X-73-1	Screw, r.h.m. 1/4-20 x .5	4	
49	#	Screw, 10-32		4
50	#	Washer, 1/4	4	
50	#	Washer, #10		4
51	A-345234	Circuit board, controller assembly	1	
51	A-345320	Circuit board, controller assembly		1
52	X-22-6	Washer, #6	2	2
53	X-71-2	Nut, hex 6-32	2	2
54	X-49-39	Screw, pan head 6-32 x .5	2	2
55	267996	Holder, fuse	3	3
56	X-22-9	Washer, #10	2	2
57	X-50-2	Screw, r.h.m. #10-32 x .375	2	2
58	345238	Breaker, circuit	1	
58	345332	Breaker, circuit		1
59	223316	Fuse, 10A 250V	1	1
60	241944	Fuse, 2A 250V	1	1
61	226520	Fuse, 6A 250V	1	1
62	238736	Meter, hour	1	1
63	345173	Terminal, test jack (positive)	1	1
64	345174	Terminal, test jack (negative)	1	1
65	#	Nut, 5/16	2	2
66	#	Washer, 5/16	4	4
67	GM14400	Filter, Ferrite Cage	2	2

Common hardware; procure locally.

Group 501: Housing and Mounting



D-345000

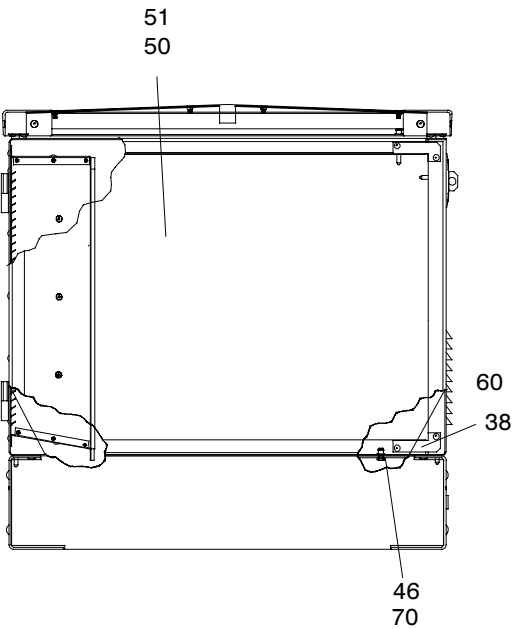
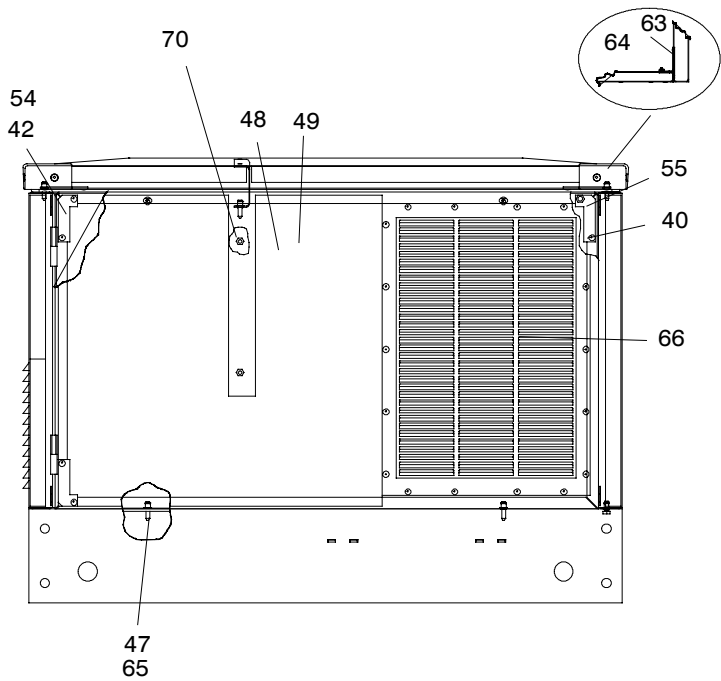
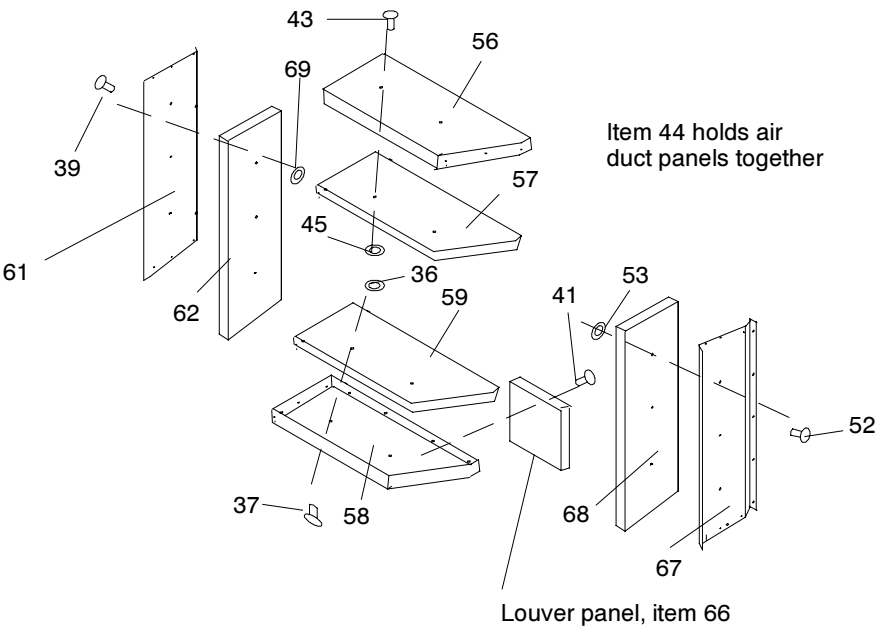
Group 501: Housing and Mounting

Item	Part Number	Description	Quantity
			Variation Number 2
1	345284	Kit, acoustic foam (not shown) includes items 16, 23, 25, 49, 51	1
2	345291	Kit, reflective liner (not shown) includes items 57, 59, 62, 68	1
3	X-781-19	Rivet, pop .195	8
4	X-781-19	Rivet, pop .195	8
5	X-781-19	Rivet, pop .195	6
6	X-781-19	Rivet, pop .195	2
7	295098	Screw, flat head machine #10-24 x .5	8
8	297600	Hinge, split	2
9	346258	Insert, threaded 10-24	8
10	320828	Insert, threaded .4 ID	1
11	320828	Insert, threaded .4 ID	6
12	320828	Insert, threaded .4 ID	1
13	320828	Insert, threaded .4 ID	4
14	GM29980	Latch, sound shield (door)	2
15	345248	Panel, roof	1
16	345289	Foam, acoustic (roof)*	1
17	345258	Gusset, corner	4
18	345290	Foam, acoustic	1
19	345308	Seal, acoustic foam (engine air inlet)	1
20	345249	Bracket, molded corner	4
21	345278	Rivet, plastic .5	8
22	GM32753	Panel Kit, door (includes 2 latches)	1
23	345288	Foam, acoustic (door)*	1
24	345253	Panel, right door	1
25	345287	Foam, acoustic (right door)*	1
26	345256	Panel, roof (stiffener)	1
27	345258	Gusset, corner	4
28	345258	Gusset, corner	4
29	#	Nut, 1/4-20	4
30	345283	Pin, threaded	1
31	345283	Pin, threaded	6
32	#	Hardware, 1/4-20	1
33	345283	Pin, threaded	4
34	345282	Bracket	1
35	345277	Hasp	1

* See also acoustic foam kit, item 1.

Common hardware; procure locally.

Group 501: Housing and Mounting, cont.



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Group 501: Housing and Mounting, cont.

Item	Part Number	Description	Quantity
			Variation Number
			2
36	X-25-45	Washer, plain .2 ID .75 OD	2
37	X-781-19	Rivet, pop .195	2
38	X-781-19	Rivet, pop .195	8
39	X-781-19	Rivet, pop .195	3
40	X-781-19	Rivet, pop .195	1
41	X-781-19	Rivet, pop .195	18
42	X-781-19	Rivet, pop .195	4
43	X-781-19	Rivet, pop .195	2
44	X-781-7	Rivet, pop .250 (not shown)	12
45	X-25-45	Washer, plain .2 ID .75 OD	2
46	320828	Insert, threaded .4 ID	2
47	320828	Insert, threaded .4 ID	1
48	345251	Panel, rear door	1
49	345286	Foam, acoustic (rear panel)*	1
50	345252	Panel, left door	1
51	345285	Foam, acoustic (left panel)*	3
52	X-781-19	Rivet, pop .195	3
53	X-25-45	Washer, plain .2 ID .75 OD	2
54	345258	Gusset, corner	1
55	345259	Gusset, corner	1
56	345272	Duct, air	1
57	345294	Liner, reflective	1
58	345274	Duct, air	1
59	345295	Liner, reflective	1
60	345258	Gusset, corner	4
61	345275	Duct, air	1
62	345293	Liner, reflective	1
63	345281	Bracket	1
64	#	Nut, 1/4-20	1
65	345283	Pin, threaded	2
66	345337	Panel, louver	1
67	345273	Duct, air	1
68	345292	Liner, reflective	1
69	X-25-45	Washer, plain .2 ID .75 OD	3
70	#	Nut, 1/4-20	4

* See acoustic foam kit, item 1.

† See also reflective liner kit item 2.

Common hardware; procure locally

Group 701: Literature

Item	Part Number	Description	Quantity
			Variation Number
			8
1	24 590 01-B	O/M Kohler CH18-CH26, CH620-CH750	1
2	24 690 06	S/M, CH18-CH750 Command Twin	1
3	TP-5756	Start-up/warranty registration	1
4	TP-5864	S/M Com-6	1
5	TP-5374	Warranty 1-Year Limited, Industrial	1
6	TP-6168	Warranty, Federal/CA Emission	1
7	TP-5863	O/I/M COM-6 24/48VDC	1
8	TP-5941	P/C COM-6 24/48VDC	1

Accessories

Qty.	Description	Kit/Part No.
------	-------------	--------------

Remote Communication Harness	PA-345329
1 Harness, remote communication	345325

Intrusion Alarm Kit	345330
1 Harness, intrusion alarm	345326
1 Switch, pushbutton	345327

Qty.	Description	Kit/Part No.
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Intrusion Alarm Kit	PA-345330
1 Harness, intrusion alarm	345326
1 Switch, pushbutton	345327

Skid Riser Base	PA-345342
8 Nut, whiz (expense)	X-6210-2
4 Nut (expense), spiralock	X-6210-9
4 Screw, (expense) H.C.	X-6238-11
8 Bolt, carriage	295008
1 Skid, riser (front)	345339
1 Skid, riser (rear)	345340
2 Skid, riser (side)	345341

Appendix A. Glossary of Abbreviations

Abbreviations are used throughout this manual. Normally in the text they will appear in complete form with the abbreviation following in parenthesis the first time they are used. After that they will appear in the abbreviated form. The commonly used abbreviations are shown below.

AC	alternating current	gph	gallons per hour	N.C.	normally closed
AISI	American Iron and Steel Institute	gpm	gallons per minute	NEC	National Electrical Code
Amp	ampere	gr.	grade	NEMA	National Electrical Manufacturers Association
Amps	amperes	grd.	ground	NFPA	National Fire Protection Association
ANSI	American National Standard Institute	HCHT	high cylinder head temperature	Nm	Newton meter, Newton meters
API	American Petroleum Institute	HET	high exhaust (or engine) temperature	no., nos	number, numbers
approx.	approximate, approximately	Hg	mercury (element)	NPT	National Standard taper pipe thread per general use
A/R	as required, as requested	H ₂ O	water	N/R	not required
A/S	as supplied, as stated, as suggested	HP	horsepower	OC	overcrank
ASA	American Standards Association	hr, hrs	hour	OD	outside diameter
ASME	American Society of Mechanical Engineers	Hz	hertz (cycles per second)	OEM	original equipment manufacturer
assy.	assembly	ID	inside diameter	OS	overspeed, oversize
ASTM	American Society for Testing Materials	IEEE	Institute of Electrical and Electronic Engineers	O/S	oversize
ATDC	after top dead center	in.	inch(es)	OSHA	Occupational Safety and Health Act
aux.	auxiliary	inc.	incorporated	OV	overvoltage
AWG	American Wire Gauge	in. lbs.	inch pounds	oz.	ounce, ounces
AWM	appliance wiring material	int.	internal	PF	power factor
BBDC	before bottom dead center	int.-ext.	internal-external	PMG	permanent magnet generator
BDC	before dead center	ISO	International Standards Organization	pot.	potentiometer
BHP	brake horsepower	J	joule, joules	ppm	parts per million
bmep	brake mean effective pressure	JIS	Japanese Industry Standard	psi	pounds per square inch
Btu	British thermal unit	kg	kilogram, kilograms	pt., pts.	pint, pints
°C	Celsius degree	kg/cm ²	kilograms per square centimeter	PVC	polyvinyl chloride
cc	cubic centimeter	kgm	kilogram meter(s)	qt., qts.	quart, quarts
CCA	cold cranking Amps.	kJ	kilojoules (btu cal)	qty.	quantity
CEC	Canadian Electrical Code	km	kilometer, kilometers	ref.	reference
cfh	cubic feet per hour	kPa	kiloPascal, kiloPascals	RFI	radio frequency interference
cfm	cubic feet per minute	kph	kilometers per hour	r.h.m.	round-head machine (screw)
CID	cubic inch displacement	kV	kilovolt	rms	root mean square
cm	centimeter, centimeters	kVA	kilovolt amperes	RPM	revolutions per inch
cmm	cubic meters per minute	kW	kilowatt, kilowatts	RTV	room temperature vulcanization
co.	company	kWH	kilowatt hour	SAE	Society of Automotive Engineers
cont'd.	continued	L	liter, liters	SCR	silicon-controlled rectifier
CSA	Canadian Standards Association	LxWxH	length x width x height	sec.	second, seconds
CT	current transformer	LED(s)	light emitting diode	spec.	specs, specification
cu. in.	cubic inch, cubic inches	lb., lbs.	pound, pounds	sq.	square
cyl.	cylinder	L/hr.	liter per hour, liters per hour	sq. cm	square centimeters
dB	decibel	L/min.	liter(s) per minutes	sq. in.	square inch, square inches
dBA	decibels (A weighted)	LOP	low oil pressure	tach	tachometer
DC	direct current	LP	liquefied petroleum	TDC	top dead center
DCR	direct current resistance	m	meter, meters	tech. pub.	technical publications
deg.	degree	m ³	cubic meter, cubic meters	temp.	temperature
dept.	department	max.	maximum	TIF	telephone influence factor
dia.	diameter	MCM	one thousand circular mils.	TP, TPs	technical publications
e.g.	example given	megger	megohmmeter	turbo	turbocharger
EIA	Electronic Industries Association	MHz	megahertz	UHF	ultrahigh frequency
EMI	electromagnetic interference	mi.	mile, miles	UNC	Unified coarse thread (was NC)
EPA	Environmental Protection Agency	mil	one one-thousandth of an inch	UNF	Unified fine thread (was NF)
etc.	et cetera (and so forth)	min.	minimum	UL	Underwriter's Laboratories, Inc.
ext.	external	mJ	millijoule, millijoules	U/S	undersize
°F	Fahrenheit degree	MJ	mega joule, mega joules	U.S.A.	United States of America
fl. oz.	fluid ounce, fluid ounces	mm	millimeter, millimeters	v	volt, volts
FM	frequency modulation	m ³ /min	cubic meters per minute	vac	volts alternating current
ft.	foot, feet	MPa	megaPascal	vdc	volts direct current
ft. lbs.	foot pound, foot pounds	mW	milliwatt, milliwatts	VHF	very high frequency
ga.	gauge	MW	megawatt, megawatts	W	watt, watts
gal./ gals.	gallon, gallons	N/A	not available or not applicable		
		NBS	National Bureau of Standards		

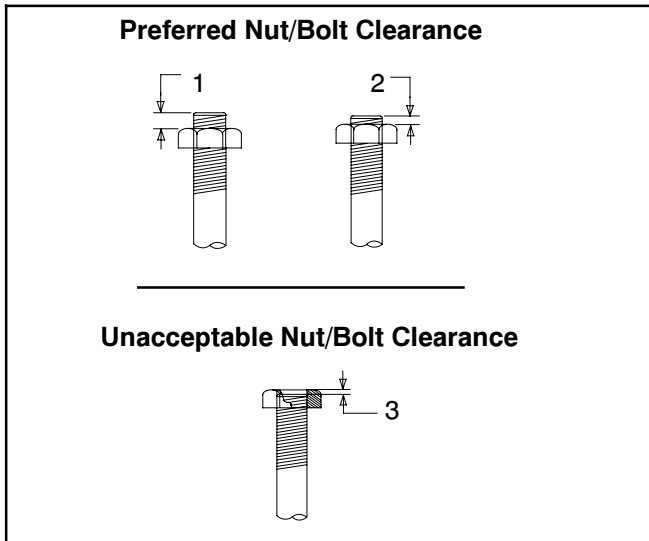
Appendix B. Common Hardware Application Guidelines

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 NO TAG 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 General Torque Specifications and other torque specifications in the service literature.



1. 1/2 of Bolt Diameter
2. Min. 1 Full Thread Beyond Top of Nut
3. Below Top of Nut

Figure 2. Acceptable Bolt Lengths

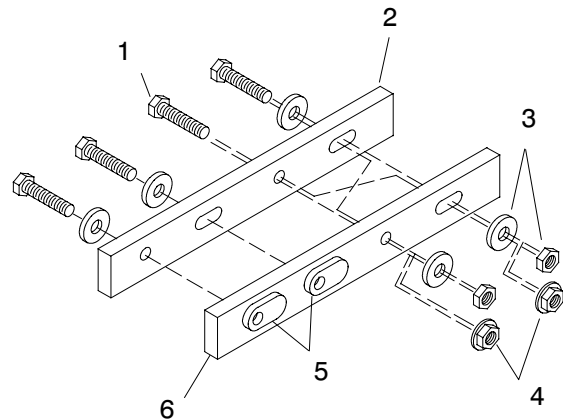
Steps for common hardware application:

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 the diagram below.

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



4. Cap screw
5. Entry hole types
6. Standard nut and SAE washer
7. Whiz nut or spirallock: up to 1/2" dia. hardware
8. Weld nuts: above 1/2" dia. hardware
9. Exit hole types

Figure 3. Acceptable Hardware Combinations

Appendix C. General Torque Specifications

SAE Fasteners

Use the following specifications for SAE fasteners when no torque values are given elsewhere in this or the service manual for a specified bolt.

The values given are based on new plated threads. Increase values by 20% if nonplated threads are used.

Size	Torque Measurement	Assembled into			
		Cast Iron or Steel			Aluminum
		Grade 2	Grade 5	Grade 8	Grade 2 or 5
8-32	in. lbs. (Nm)	16 (1.8)	20 (2.3)	–	16 (1.8)
10-24	in. lbs. (Nm)	26 (2.9)	32 (3.6)	–	26 (2.9)
10-32	in. lbs. (Nm)	26 (2.9)	32 (3.6)	–	26 (2.9)
1/4-20	in. lbs. (Nm)	60 (6.8)	96 (10.8)	132 (14.9)	60 (6.8)
1/4-28	in. lbs. (Nm)	72 (8.1)	108 (12.2)	144 (16.3)	72 (8.1)
5/16-18	in. lbs. (Nm)	120 (13.6)	192 (21.7)	264 (29.8)	120 (13.6)
5/16-24	in. lbs. (Nm)	132 (14.9)	204 (23.1)	288 (32.5)	132 (14.9)
3/8-16	in. lbs. (Nm)	18 (2.4)	28 (3.8)	39 (5.3)	18 (2.4)
3/8-24	ft. lbs. (Nm)	20 (2.7)	31 (4.2)	44 (6.0)	20 (2.7)
7/16-14	ft. lbs. (Nm)	29 (3.9)	44 (6.0)	63 (8.5)	
7/16-20	ft. lbs. (Nm)	32 (4.3)	50 (6.8)	70 (9.5)	
1/2-13	ft. lbs. (Nm)	44 (6.0)	68 (9.2)	96 (13.0)	
1/2-20	ft. lbs. (Nm)	49 (6.6)	76 (10.3)	108 (14.6)	
9/16-12	ft. lbs. (Nm)	60 (8.1)	98 (13.3)	138 (18.7)	
9/16-18	ft. lbs. (Nm)	67 (9.1)	109 (14.8)	154 (20.9)	
5/8-11	ft. lbs. (Nm)	83 (11.3)	135 (18.3)	191 (25.9)	
5/8-18	ft. lbs. (Nm)	94 (12.8)	153 (20.8)	216 (29.3)	
3/4-10	ft. lbs. (Nm)	147 (19.9)	240 (32.5)	338 (45.8)	
3/4-16	ft. lbs. (Nm)	164 (22.2)	268 (36.3)	378 (51.3)	
1-8	ft. lbs. (Nm)	191 (25.9)	532 (72.1)	818 (110.9)	
1-12	ft. lbs. (Nm)	209 (28.3)	582 (78.9)	895 (121.4)	

Metric Fasteners

Use the following specifications for metric fasteners when no torque values are given elsewhere in this manual for a specified bolt. These values are based on new plated threads.

Increase values by 20% if nonplated threads are used. Screws threaded into aluminum must have two diameters of threads engaged and may require 30% or more reduction in the torque.

Torque ft-lb (Nm)					
Size (mm)	Fasteners Assembled Into				
	5.8	6.8	10.9	Aluminum	
6 x 1.00	5 (7)	6 (9)	9 (12)	5 (7)	
8 x 1.25	14 (19)	14 (20)	20 (37)	14 (19)	
8 x 1.00	16 (21)	17 (24)	23 (31)	16 (21)	
10 x 1.50	25 (35)	27 (37)	38 (51)	25 (35)	
10 x 1.25	29 (39)	34 (46)	45 (61)	29 (39)	
12 x 1.75	42 (57)	45 (61)	65 (89)		
12 x 1.50	48 (65)	55 (75)	78 (106)		
14 x 2.00	64 (86)	69 (94)	101 (137)		
14 x 1.50	74 (100)	81 (110)	116 (157)		
16 x 2.00	98 (133)	104 (141)	150 (204)		
16 x 1.50	104 (141)	116 (157)	168 (228)		
18 x 2.50	133 (181)	145 (196)	208 (283)		
18 x 1.50	145 (196)	156 (212)	226 (306)		

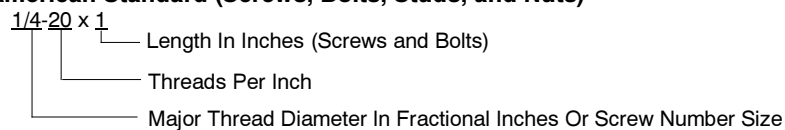
Appendix D. Common Hardware Identification

Screws/Bolts/Studs Head Styles	
Hex. Head or Machine Head	
Hex. Head or Machine Head with Washer	
Flat Head (f.h.m.)	
Round Head (r.h.m.)	
Pan Head	
Socket Head Cap or Allen Head Cap	
Socket Head or Allen Head Shoulder Bolt	
Sheet Metal Screw	
Stud	
Drive Styles	
Hex.	
Hex. and Slotted	
Phillips	
Slotted	
Hex. Socket	
Hardness Grade	
American Standard	
Grade 2	
Grade 5	
Grade 8	
Grade 8/9	
Metric	
Number stamped on hardware; 5.8 shown	

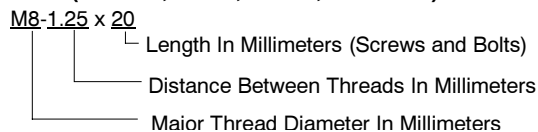
Nuts Nut Styles	
Hex. Head	
Lock Nut or Nylock Nut	
Square Nut	
Cap Nut or Acorn Nut	
Wing Nut	
Nut Hardness Grades	
American Standard	
Grade 2	
Grade 5	
Metric	
Number stamped on hardware	
Washers Washer Styles	
Plain	
Split Lock or Spring	
Spring or Wave	
External Tooth Lock	
Internal Tooth Lock	
Internal-External Tooth Lock	

Sample Dimensions

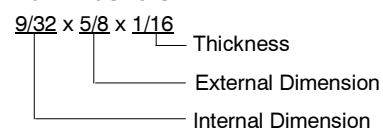
American Standard (Screws, Bolts, Studs, and Nuts)



Metric (Screws, Bolts, Studs, and Nuts)



Plain Washers



Lock Washers



Appendix E. Common Hardware List

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

HEX BOLTS (GRADE 5)

Part No.	Dimensions
X-465-17	1/4-20 x .38
X-465-6	1/4-20 x .50
X-465-2	1/4-20 x .62
X-465-16	1/4-20 x .75
X-465-18	1/4-20 x .88
X-465-7	1/4-20 x 1.00
X-465-8	1/4-20 x 1.25
X-465-9	1/4-20 x 1.50
X-465-10	1/4-20 x 1.75
X-465-11	1/4-20 x 2.00
X-465-12	1/4-20 x 2.25
X-465-14	1/4-20 x 2.75
X-465-21	1/4-20 x 5.00
X-465-25	1/4-28 x .38
X-465-20	1/4-28 x 1.00
X-125-33	5/16-18 x .50
X-125-23	5/16-18 x .62
X-125-3	5/16-18 x .75
X-125-31	5/16-18 x .88
X-125-5	5/16-18 x 1.00
X-125-24	5/16-18 x 1.25
X-125-34	5/16-18 x 1.50
X-125-25	5/16-18 x 1.75
X-125-26	5/16-18 x 2.00
230578	5/16-18 x 2.25
X-125-29	5/16-18 x 2.50
X-125-27	5/16-18 x 2.75
X-125-28	5/16-18 x 3.00
X-125-22	5/16-18 x 4.50
X-125-32	5/16-18 x 5.00
X-125-35	5/16-18 x 5.50
X-125-36	5/16-18 x 6.00
X-125-40	5/16-18 x 6.50
X-125-43	5/16-24 x 1.75
X-125-44	5/16-24 x 2.50
X-125-30	5/16-24 x .75
X-125-39	5/16-24 x 2.00
X-125-38	5/16-24 x 2.75
X-6238-2	3/8-16 x .62
X-6238-10	3/8-16 x .75
X-6238-3	3/8-16 x .88
X-6238-11	3/8-16 x 1.00
X-6238-4	3/8-16 x 1.25
X-6238-5	3/8-16 x 1.50
X-6238-1	3/8-16 x 1.75
X-6238-6	3/8-16 x 2.00
X-6238-17	3/8-16 x 2.25
X-6238-7	3/8-16 x 2.50
X-6238-8	3/8-16 x 2.75
X-6238-9	3/8-16 x 3.00
X-6238-19	3/8-16 x 3.25
X-6238-12	3/8-16 x 3.50
X-6238-20	3/8-16 x 3.75
X-6238-13	3/8-16 x 4.50
X-6238-18	3/8-16 x 5.50
X-6238-25	3/8-16 x 6.50
X-6238-14	3/8-24 x .75
X-6238-16	3/8-24 x 1.25
X-6238-21	3/8-24 x 4.00
X-6238-22	3/8-24 x 4.50
X-6024-5	7/16-14 x .75
X-6024-2	7/16-14 x 1.00
X-6024-8	7/16-14 x 1.25
X-6024-3	7/16-14 x 1.50
X-6024-4	7/16-14 x 2.00
X-6024-11	7/16-14 x 2.75
X-6024-12	7/16-14 x 6.50
X-129-15	1/2-13 x .75

HEX BOLTS (GRADE 5), continued

Part No.	Dimensions
X-129-17	1/2-13 x 1.00
X-129-18	1/2-13 x 1.25
X-129-19	1/2-13 x 1.50
X-129-20	1/2-13 x 1.75
X-129-21	1/2-13 x 2.00
X-129-22	1/2-13 x 2.25
X-129-23	1/2-13 x 2.50
X-129-24	1/2-13 x 2.75
X-129-25	1/2-13 x 3.00
X-129-27	1/2-13 x 3.50
X-129-29	1/2-13 x 4.00
X-129-30	1/2-13 x 4.50
X-463-9	1/2-13 x 5.50
X-129-44	1/2-13 x 6.00
X-129-51	1/2-20 x .75
X-129-45	1/2-20 x 1.25
X-129-52	1/2-20 x 1.50
X-6021-3	5/8-11 x 1.00
X-6021-4	5/8-11 x 1.25
X-6021-2	5/8-11 x 1.50
X-6021-1	5/8-11 x 1.75
273049	5/8-11 x 2.00
X-6021-5	5/8-11 x 2.25
X-6021-6	5/8-11 x 2.50
X-6021-7	5/8-11 x 2.75
X-6021-12	5/8-11 x 3.75
X-6021-11	5/8-11 x 4.50
X-6021-10	5/8-11 x 6.00
X-6021-9	5/8-18 x 2.50
X-6239-1	3/4-10 x 1.00
X-6239-8	3/4-10 x 1.25
X-6239-2	3/4-10 x 1.50
X-6239-3	3/4-10 x 2.00
X-6239-4	3/4-10 x 2.50
X-6239-5	3/4-10 x 3.00
X-6239-6	3/4-10 x 3.50
X-792-1	1-8 x 2.25
X-792-5	1-8 x 3.00
X-792-8	1-8 x 5.00

NUTS

Part No.	Dimensions	Type
X-6009-1	1-8	Std. Nut
X-6210-3	6-32	Whiz Nut
X-6210-4	8-32	Whiz Nut
X-6210-5	10-24	Whiz Nut
X-6210-1	10-32	Whiz Nut
X-6210-2	1/4-20	Spiralock Nut
X-6210-6	1/4-28	Spiralock Nut
X-6210-7	5/16-18	Spiralock Nut
X-6210-8	5/16-24	Spiralock Nut
X-6210-9	3/8-16	Spiralock Nut
X-6210-10	3/8-24	Spiralock Nut
X-6210-11	7/16-14	Spiralock Nut
X-6210-12	1/2-13	Spiralock Nut
X-6210-15	7/16-20	Spiralock Nut
X-6210-14		Spiralock Nut
X-85-3	5/8-11	Std. Nut
X-88-12	3/4-10	Std. Nut
X-89-2	1/2-20	Std. Nut

WASHERS

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

Notes

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