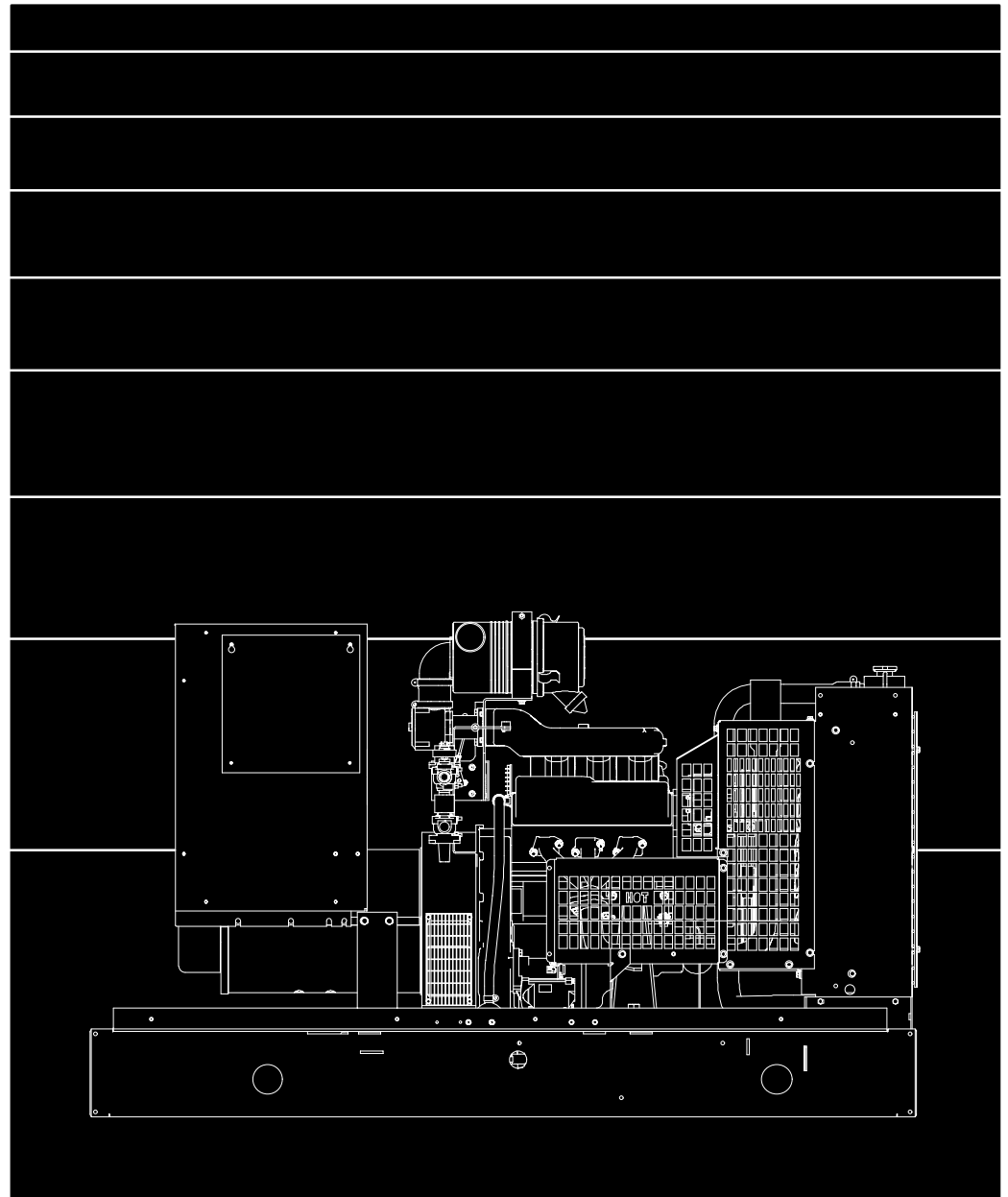




Parts Catalog

GGFD
GGFE

Generator Set



MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Onan nameplate.

For handy reference, insert your nameplate information in the spaces below.

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

The following symbols are used in Onan manuals to alert users to the potentially dangerous conditions relating to maintenance of equipment and replacement of parts. Please read and observe.



This symbol warns of immediate hazards which will result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or product or property damage.

PRODUCT SAFETY PRECAUTIONS



Service and repair of Onan equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.



Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.



Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!



Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!

Introduction

This Parts Catalog applies to the standard generator models GGFD and GGFE as listed in the Generator Set Data Table. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding with the same reference number in the parts list. Parts illustrations are typical. Unless otherwise mentioned in the description or the page heading, parts are interchangeable between models. Throughout this catalog left and right sides are determined by facing the engine (front) of the set unless noted in the description column.

Engine parts that have been modified or added by Onan are identified in this catalog. All other Engine replacement parts must be ordered from the engine manufacturer by referring to the engine manufacturers nameplate and supplying all available information. Contact your nearest engine parts distributor for assistance in ordering replacement parts.

Replacement Engine

Onan Generator Model	Ford Engine Model
GGFD	ESG6421-6005-A
GGFE	ESG6421-6005-A

Replacement engines cannot be ordered from Onan. Order from your nearest Ford Distributor.

Generator Set Data Table

Model/ Specifica- tion	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
35GGFD*	35,000	#	60	4,6,12	1 or 3	12 VDC
30GGFE*	30,000	#	50	4,6,12	1 or 3	12 VDC
35GGFE*	35,000	#	50	4,6,12	1 or 3	12 VDC
42GGFE*	42,000	#	60	4,6,12	1 or 3	12 VDC
47GGFE*	47,000	#	60	4,6,12	1 or 3	12 VDC

* The specification number denotes customer requested options or deviations from the Standard model. The specification letter advances with major manufacturing changes.

Broad Range Reconnectible.

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Abbreviations

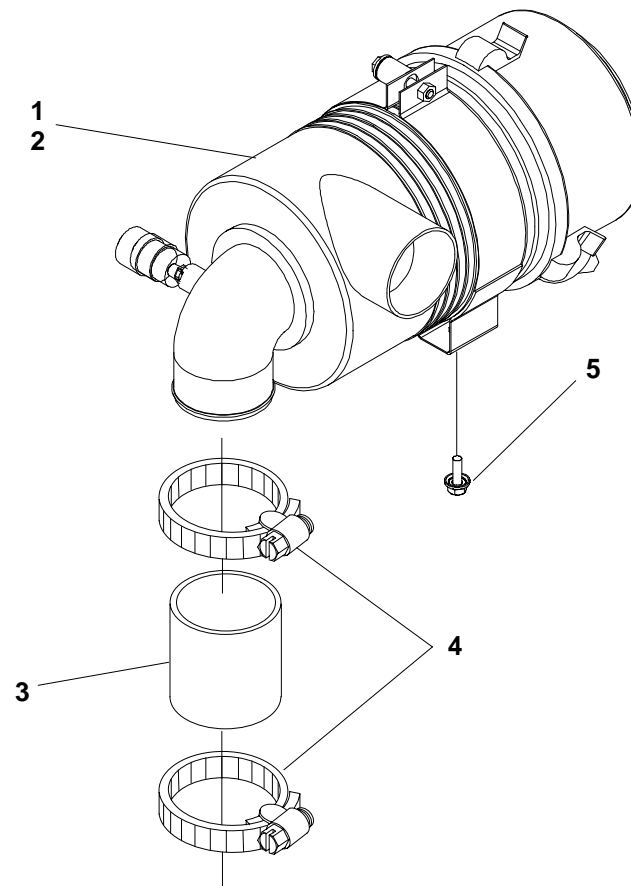
Some of the following abbreviations may be used throughout this Parts Catalog:

AC	Alternating Current	mm	Millimeter
Amp	Ampere	MOH	Mobile Off Highway
A/R	As Required	NFS	Not For Sale
AVR	Automatic Voltage Regulator	NPT	National Pipe Thread
AWG	American Wire Gauge	OD	Outside Diameter
Deg	Degree	oz.	Ounce
DC	Direct Current	PMG	Permanent Magnet Generator
EFC	Electronic Fuel Control	Ph	Phase
ET	External Tooth	PC	Printed Circuit
EIT	External/Internal Tooth	RFI	Radio Frequency Interference
GFI	Ground Fault Interrupter	RT	Right
ID	Inside Diameter	Spec	Specification
IT	Internal Tooth	Thk	Thick
IEC	International Electrotechnical Commission	UL	Underwriters Laboratories Inc.
		UNC	Union National Coarse
kW	Kilowatt	UNF	Union National Fine
LPG	Liquid Petroleum Gas	VAC	Volts Alternating Current
LT	Left	VDC	Volts Direct Current
M(meter Number)	Meter	W/(ET, IT, EIT)	With

Paint and Thread Sealant

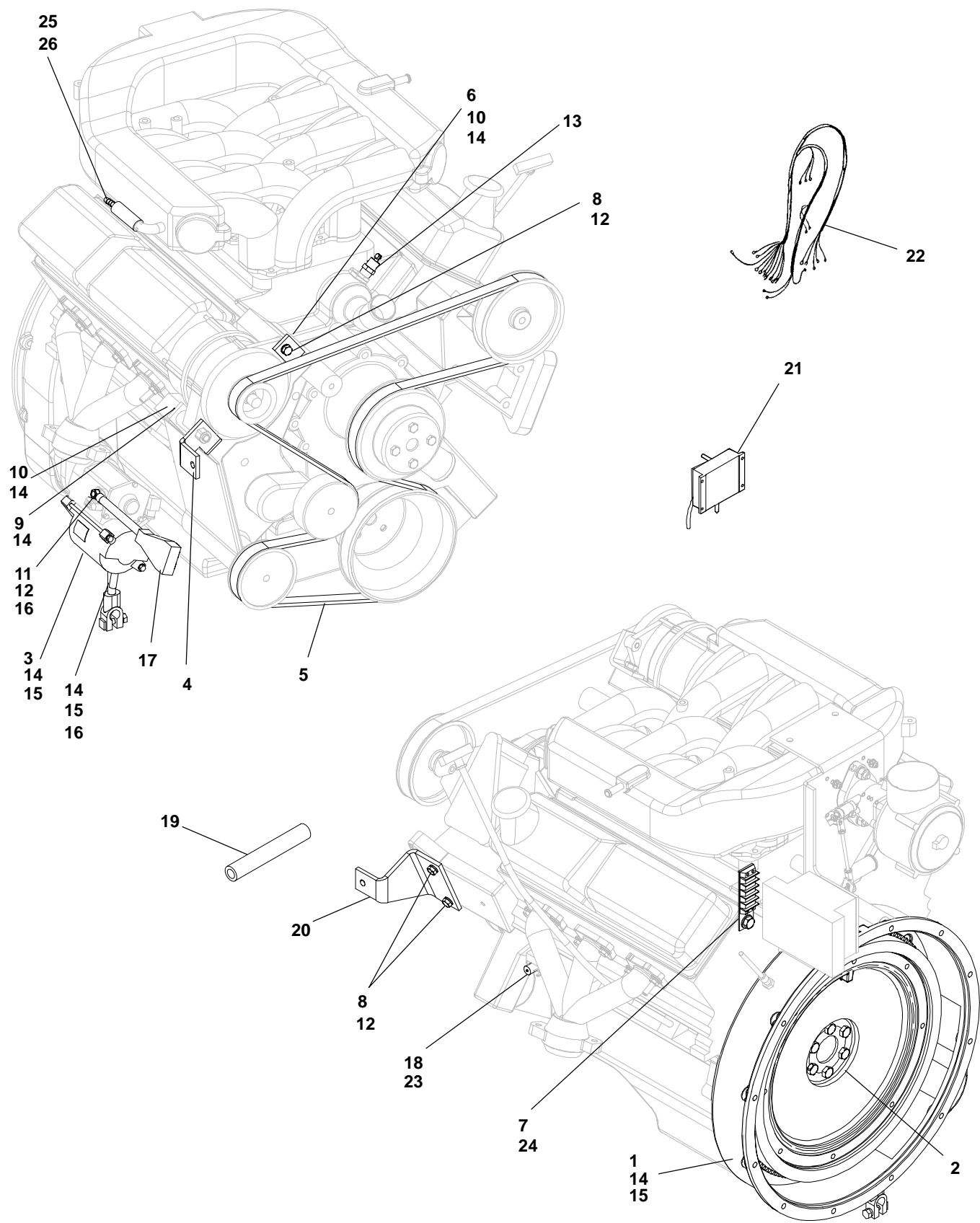
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Onan Green Enamel (Non-Metallic)	518-0601		—	Sealant, Thread (6 ml Tube)
	525-0305	—	12 oz. Pressurized Spray Can				
	525-0306	—	Quart Can				
	525-0304	—	Gallon Can				

Air Cleaner



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3271	1	Cleaner, Air	4	503-1870-05	2	Clamp, Hose
2	140-3272	1	Element, Replacement	5	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)
3	148-1086	1	Hose, Mixer				

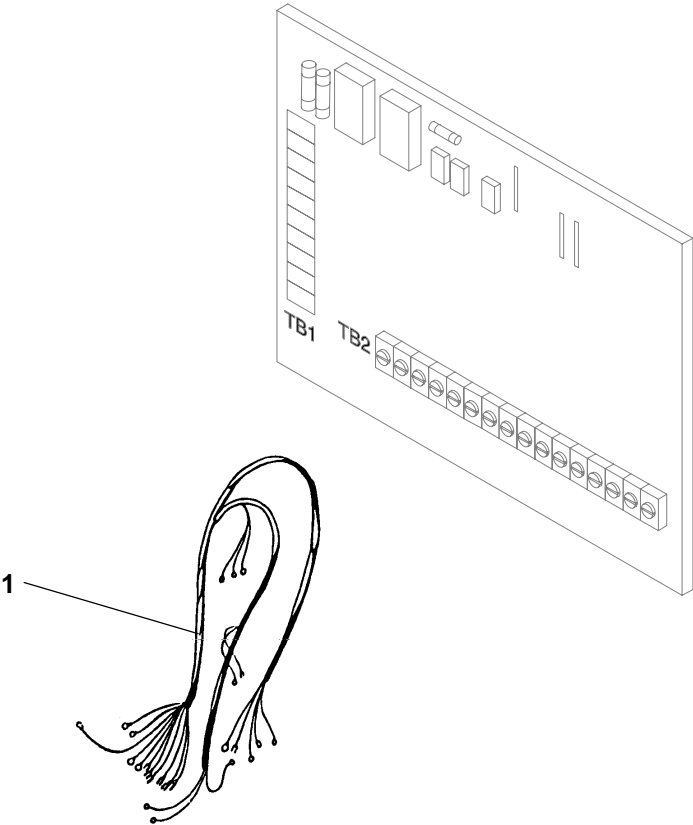
External Engine Parts



External Engine Parts

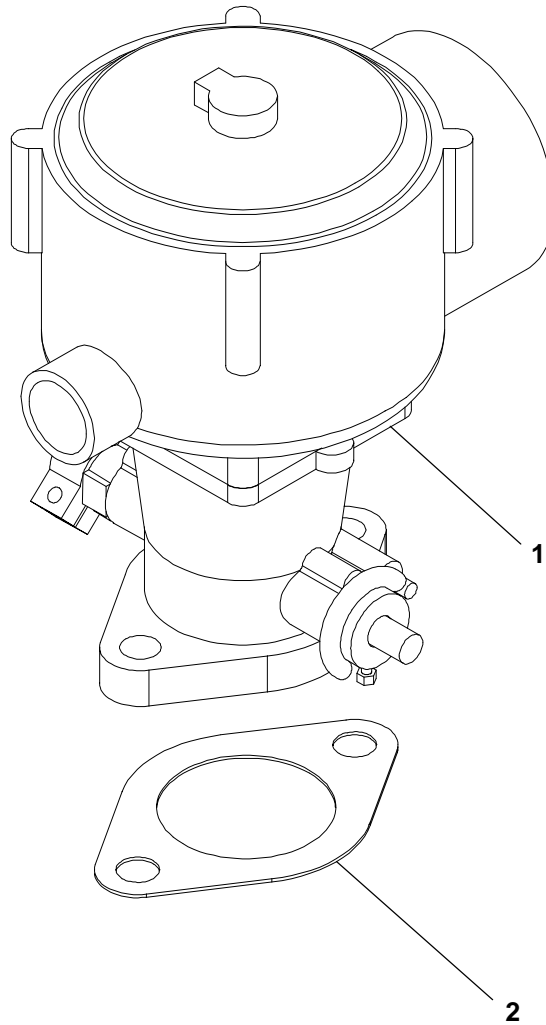
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	231-0395-02	1	Adapter, Generator	14	850-2010	12	Washer, Lock – Split (M10)
2	104-1972	1	Flywheel and Ring Gear	15	800-2088	8	Screw, Cap – Hex Head (M10 x 1.5 x 35)
3	191-2213	1	Starter (1.4 Kw) (See separate page for components)	16	416-0549	2	Cable, Battery
4	191-2309-02	1	Bracket, Alternator	17	416-1019	1	Boot, Battery
5	511-0161-19	1	Belt, Serpentine	18	193-0448	1	Sender, Oil Pressure
6	191-2287-02	1	Bracket, Alternator	19	503-2004	–	Hose – Bulk (Order by the Foot – 2 Feet Required)
7	526-2106	1	Washer, Flat (M8)	20	155-3458-02	1	Bracket, Exhaust
8	800-2059	3	Screw, Cap – Hex Head (M8 x 1.25 x 30)	21	166-0876	1	Module, Ignition
9	800-2097	1	Screw, Cap – Hex Head (M10 x 1.5 x 80)	22	166-0882	1	Harness, Ignition
10	800-3004	3	Screw, Cap – Hex Head (M10 x 1.5 x 35)	23	505-0007	1	Bushing, Reducer (1/8 x 1/4)
11	860-2008	2	Nut, Hex (M8 x 1.25)	24	800-2057	1	Screw, Cap – Hex Head (M8 x 1.25 x 20)
12	850-2008	6	Washer, Lock – Splitt (M8)	25	502-1376	1	Connector, Hose – Reducer (3/8–1/4)
13	193-0318	1	Sender, Water Temperature	26	503-2004	–	Hose, Bulk (3/8) (Order by the Foot – 1 Foot Required)

Fuel Alarm



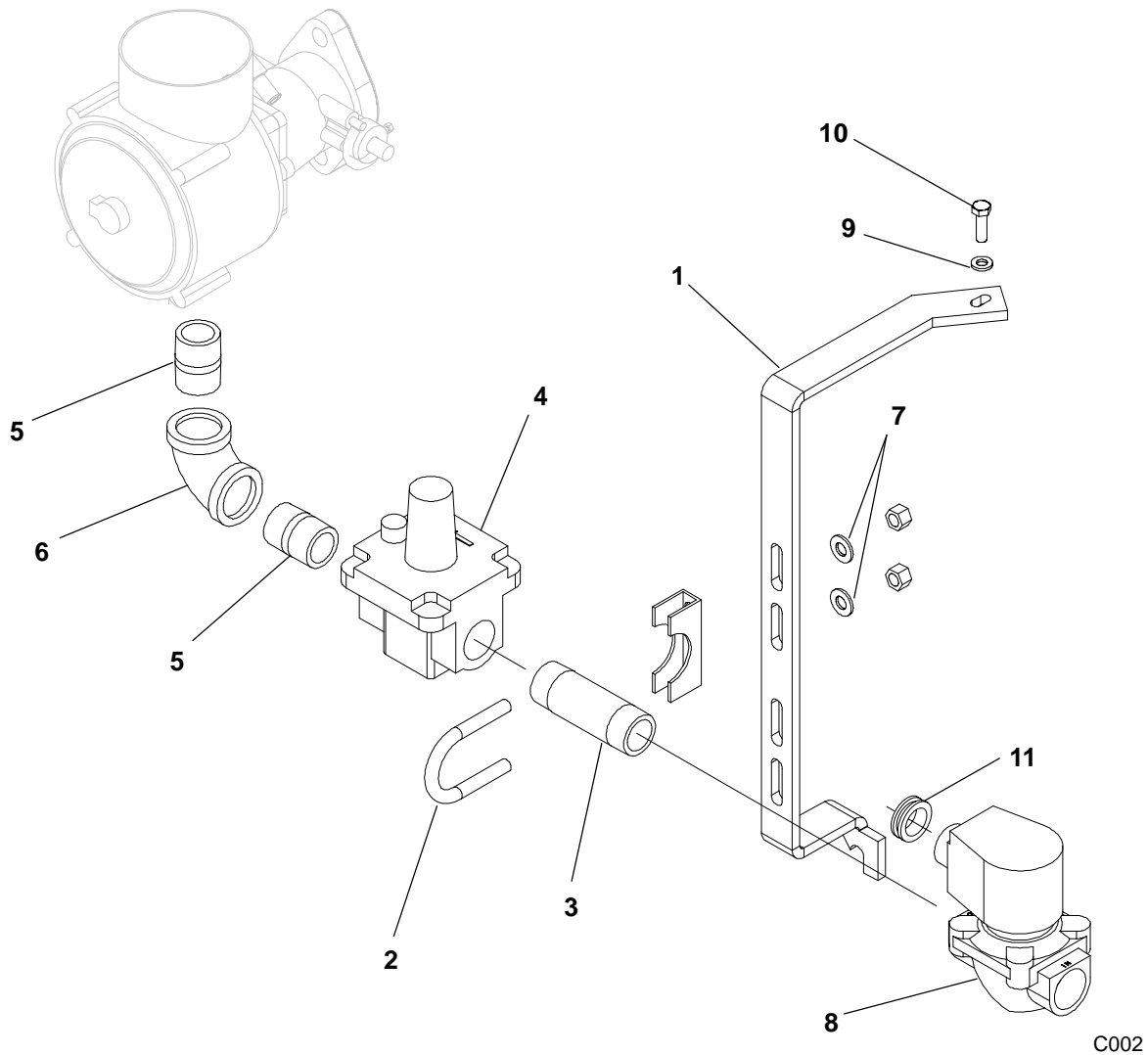
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3740-01	1	Harness, Fuel Alarm				

Carburetor



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1146	1	Carburetor	2	145-0787	1	Gasket, Carburetor

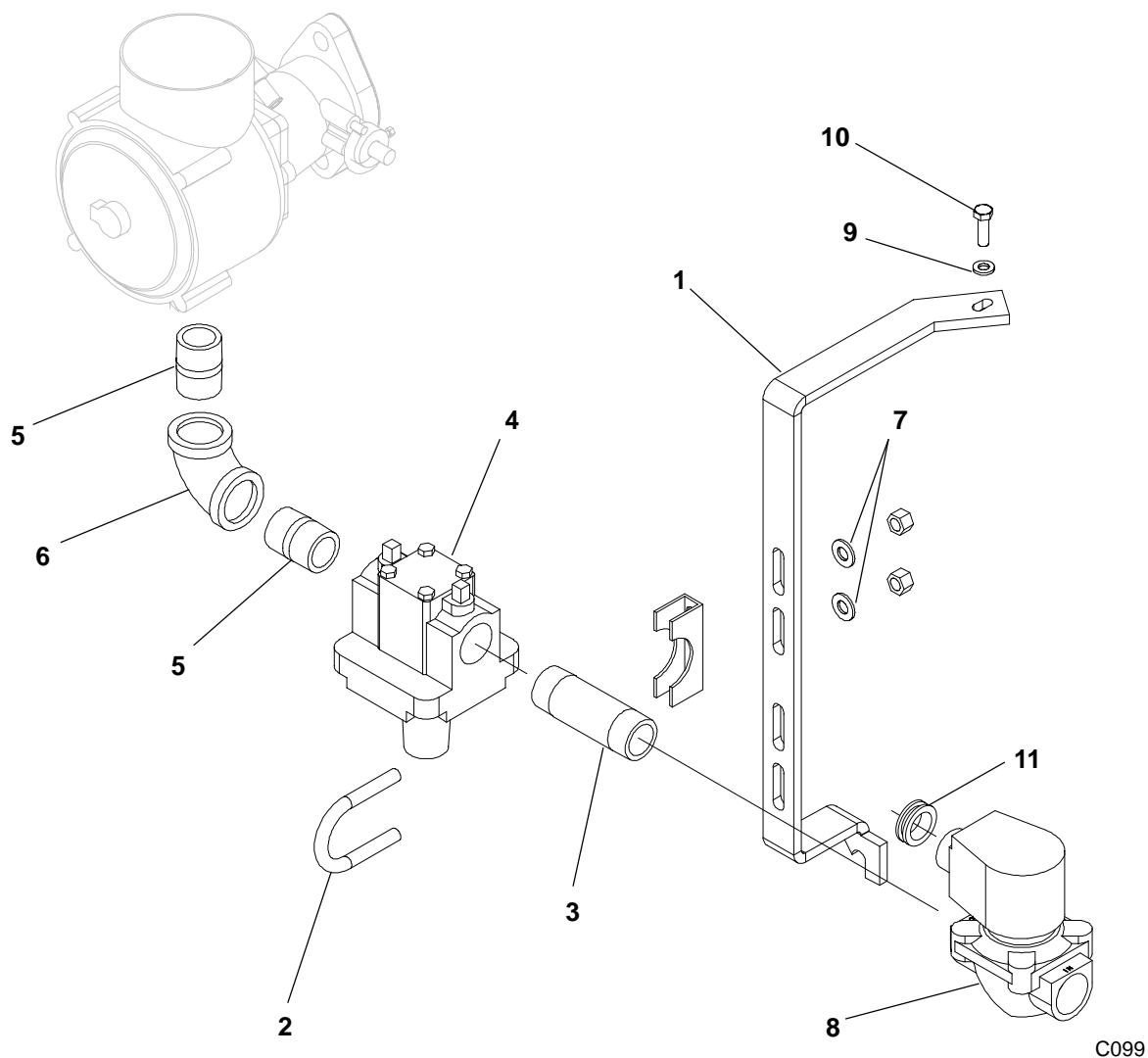
Fuel System Natural Gas



C002

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1147-02	1	Bracket, Fuel System	7	526-2100	2	Washer, Flat (M8)
2	155-1256	1	Clamp, Muffler	8	307-2930	1	Valve, Solenoid
3	505-0332	1	Nipple, Muffler (3/4 x 3.00)	9	526-2080	1	Washer, Flat (M6)
4	148-0597	1	Regulator, Natural Gas	10	800-2034	1	Screw, Cap - Hex Head (M6 x 1 x 20)
5	505-0102	2	Nipple, Close (3/4)	11	508-1158	1	Grommet
6	505-0132	1	Elbow, Pipe				

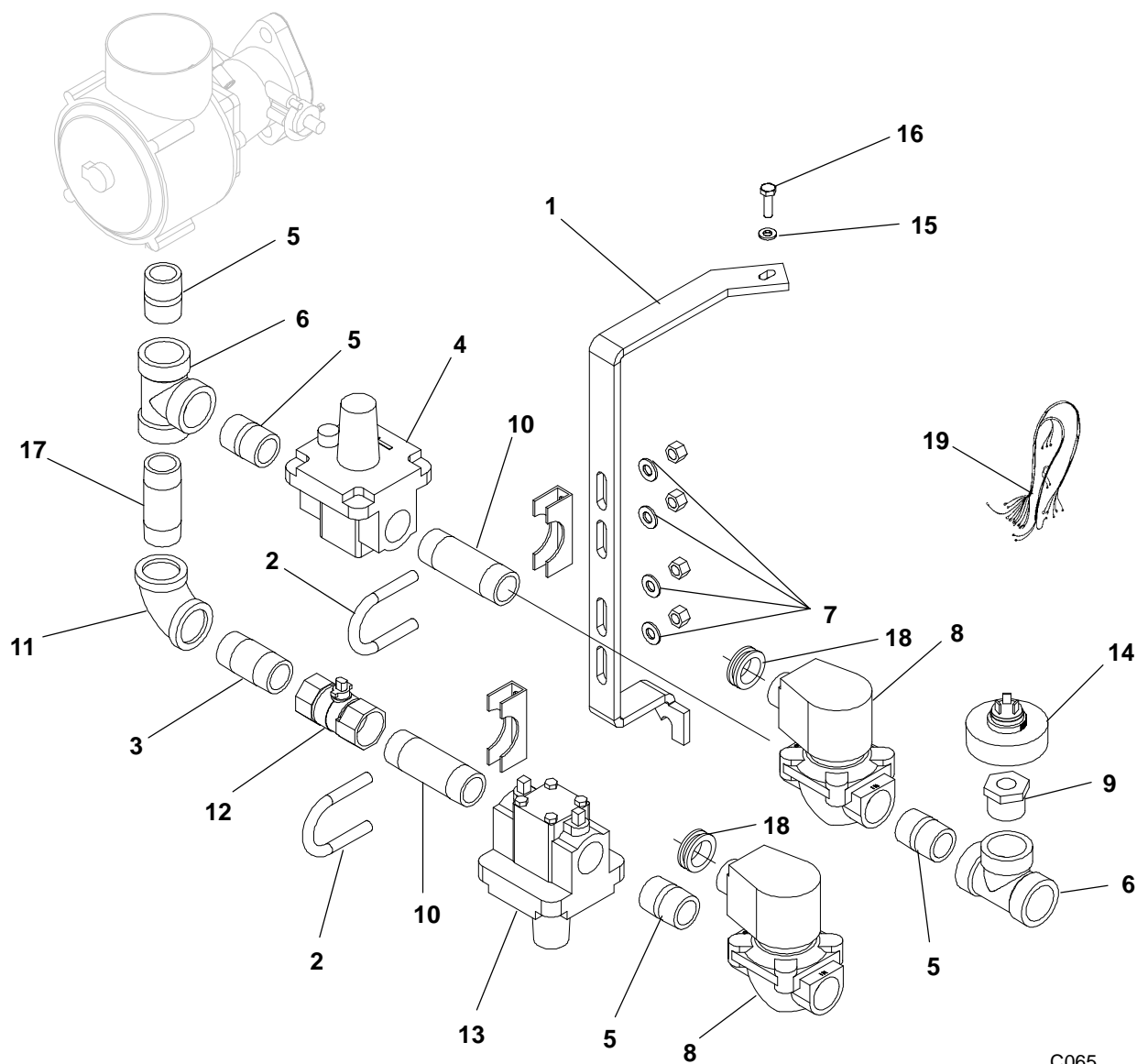
Fuel System LP Vapor



C099

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1147-02	1	Bracket, Fuel System	7	526-2100	2	Washer, Flat (M8)
2	155-1256	1	Clamp, Muffler	8	307-2930	1	Valve, Solenoid
3	505-0332	1	Nipple, Muffler (3/4 x 3.00)	9	526-2080	1	Washer, Flat (M6)
4	148-0637	1	Regulator, LP	10	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
5	505-0102	2	Nipple, Close (3/4)	11	508-1158	1	Grommet
6	505-0132	1	Elbow, Pipe				

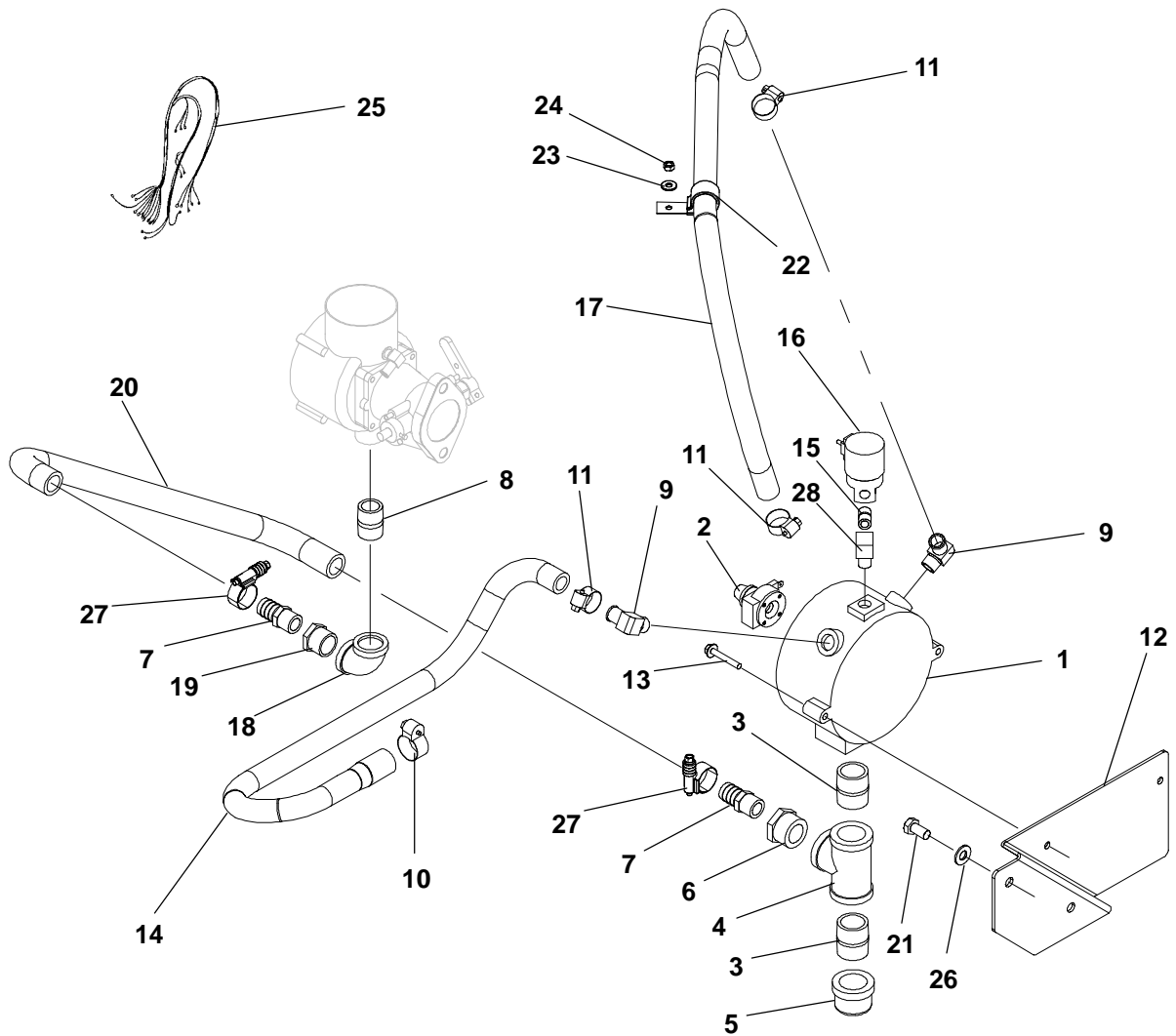
Fuel System Natural Gas / LP Vapor



C065

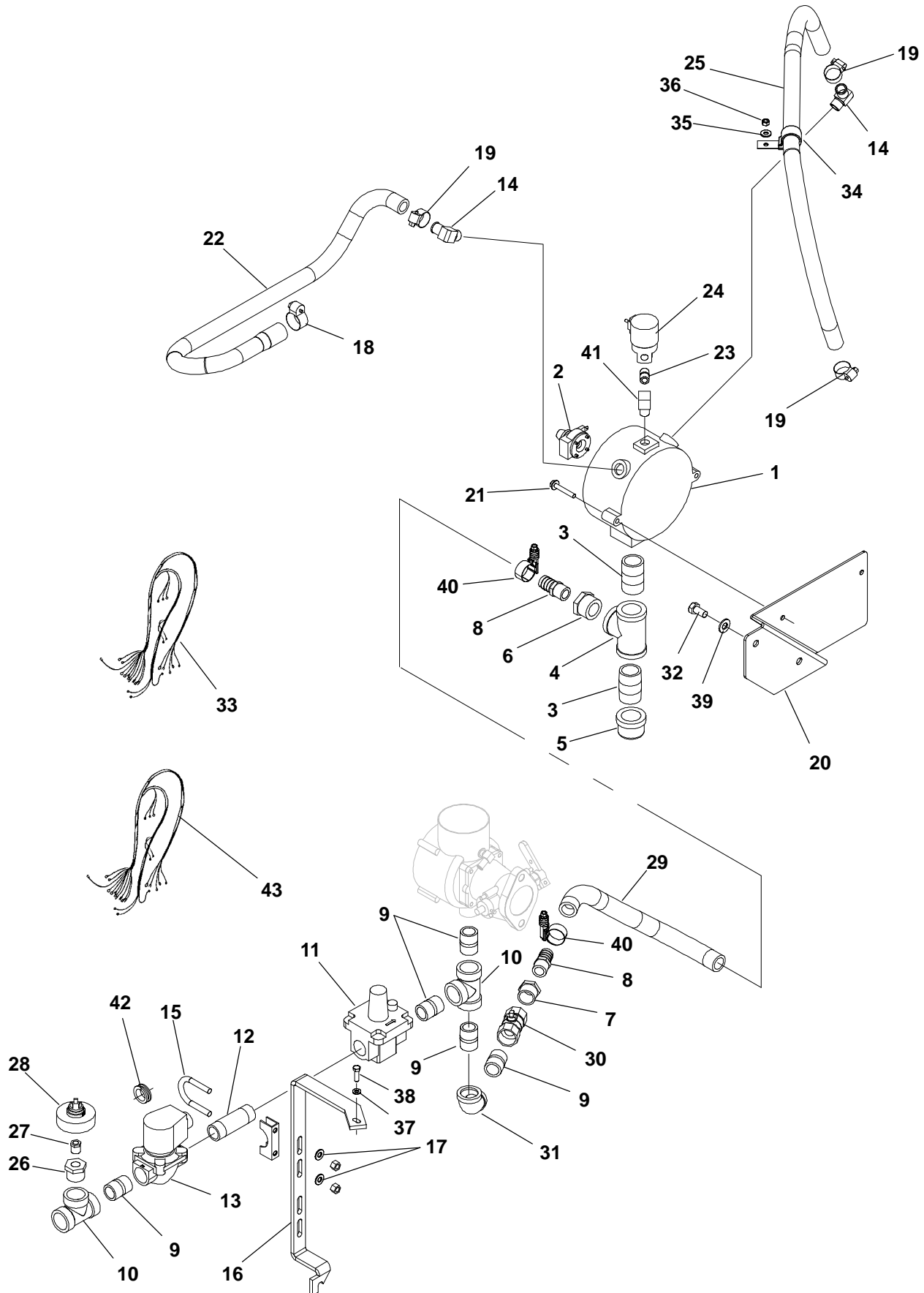
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1147-02	1	Bracket, Fuel System	11	505-0132	1	Elbow, Pipe
2	155-1256	2	Clamp, Muffler	12	504-0171	1	Valve
3	505-0085	1	Nipple, Pipe (3/4 x 2.00)	13	148-0637	1	Regulator, LP
4	148-0597	1	Regulator, Natural Gas	14	309-0669	1	Switch, Low Pressure
5	505-0102	4	Nipple, Close (3/4)	15	526-2080	1	Washer, Flat (M6)
6	505-0166	2	Tee	16	800-2034	1	Screw, Cap - Hex Head (M6 x 1 x 20)
7	526-2100	4	Washer, Flat (M8)	17	505-0084	1	Nipple, Pipe (3/4 x 2.50)
8	307-2930	2	Valve, Solenoid	18	508-1158	1	Grommet
9	505-0020	1	Bushing, Reducer (3/4 x 1/4)	19	338-3816-01	1	Harness, Dual Fuel
10	505-0332	2	Nipple, Pipe (3/4 x 3.00)				

Fuel System LP Liquid



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-0625	1	Converter, Gas	16	307-0268-01	1	Valve, Solenoid
2	148-1152	1	Solenoid, Primer	17	503-1988	—	Hose — Bulk (Order by the Foot (4 Feet Required)
3	505-0004	2	Nipple, Pipe (1 x 1.50)	18	505-0132	1	Elbow, Pipe
4	505-0304	1	Tee, Pipe	19	505-0021	1	Bushing, Reducer (3/4 x 1/2)
5	505-0479	1	Cap, Pipe (1.00)	20	503-1565	—	Hose (3/4) — Bulk (Order by the Foot — 2 Feet Required)
6	505-0022	1	Bushing, Reducer (1 x 1/2)	21	800-2085	2	Screw, Cap — Hex Head
7	502-0827	2	Hose, Barb	22	332-3196	1	Clamp, J
8	505-0102	1	Nipple, Close (3/4)	23	526-0018	1	Washer, Flat (1/4)
9	502-0942	2	Elbow, Hose — 90° (3/8 x 5/8)	24	860-2007	1	Nut, Hex (M6 x 1)
10	503-1872-01	1	Clamp, Hose	25	338-3654-01	1	Harness, Wiring
11	503-0183	3	Clamp, Hose	26	526-2132	2	Washer, Flat (M10)
12	148-1159-02	1	Bracket, Converter	27	503-2157-02	2	Clamp, Hose
13	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)	28	502-0054	1	Elbow, Pipe — Street
14	503-2185	1	Hose, Coolant — Engine				
15	505-0099	1	Nipple, Pipe (1/4 x .88)				

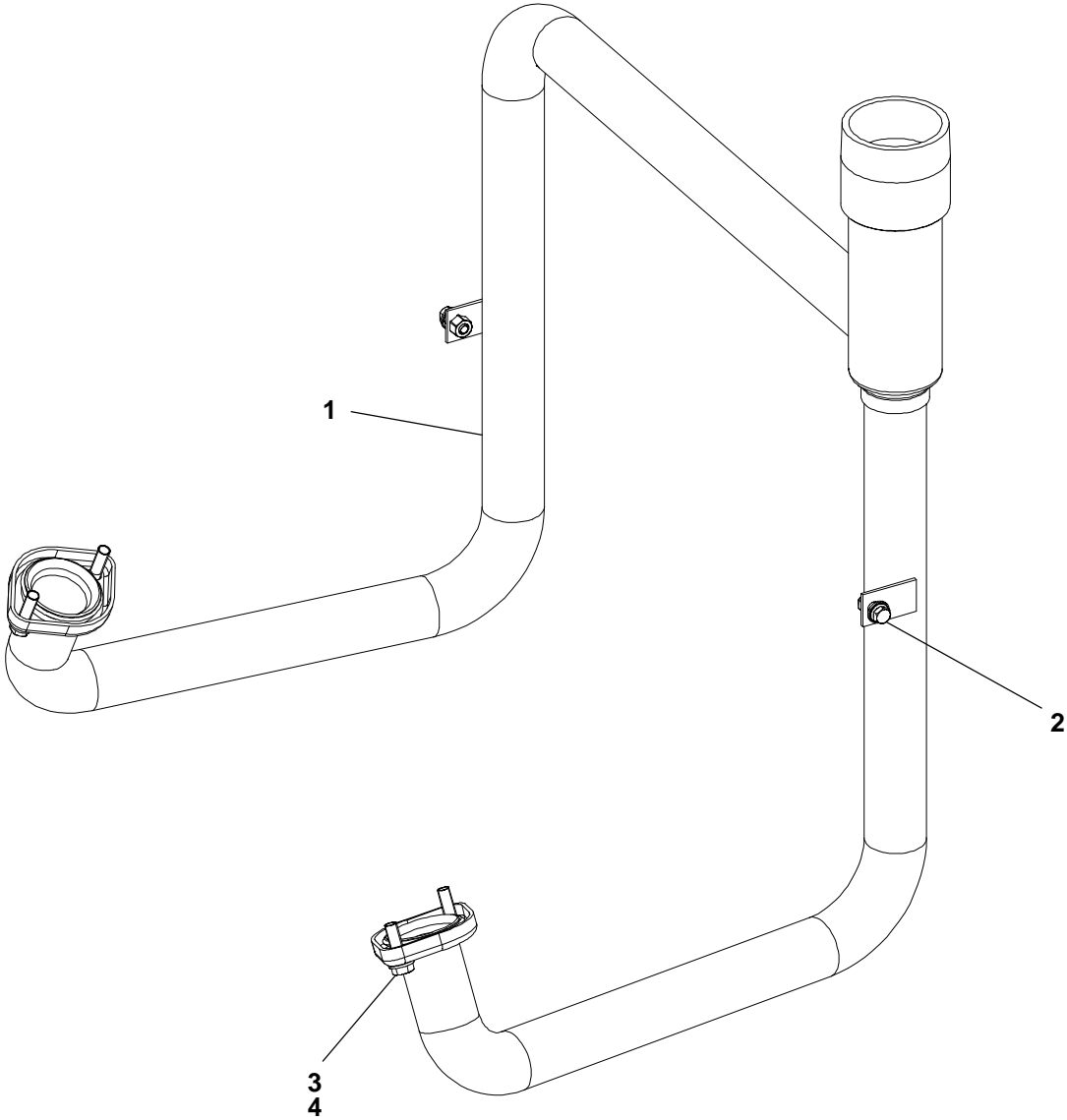
Fuel System Natural Gas / LP Liquid



Fuel System Natural Gas / LP Liquid

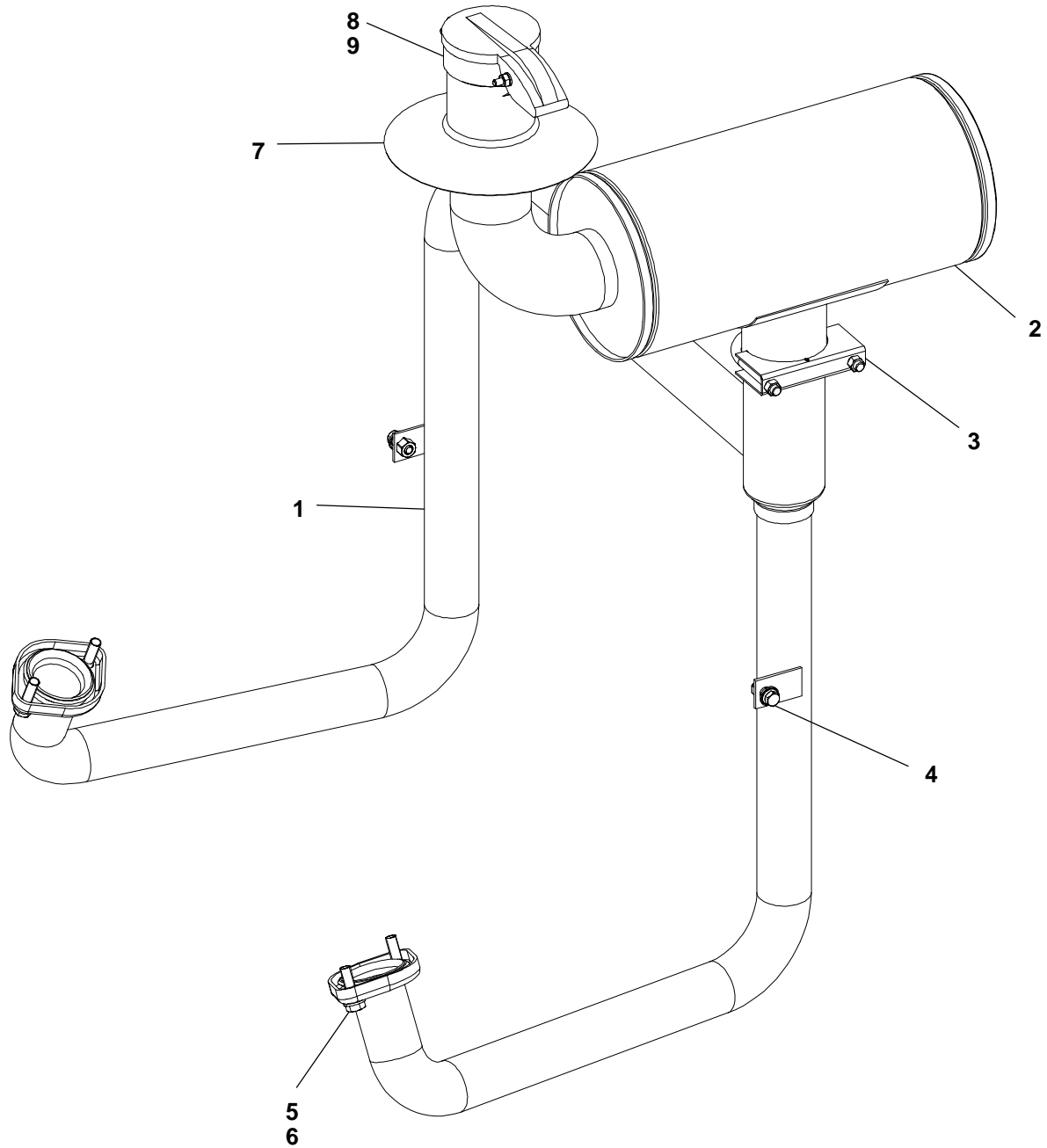
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-0625	1	Converter, Gas	25	503-1988	–	Hose – Bulk (Order by the Foot – 4 Feet Required)
2	148-1152	1	Solenoid, Primer	26	505-0020	1	Bushing, Reducer (3/4 x 1/4)
3	505-0107	2	Nipple, Pipe (1 x 2.00)	27	505-0007	1	Bushing, Reducer (1/4 x 1/8)
4	505-0304	1	Tee, Pipe	28	309-0669	1	Switch, Low Pressure
5	505-0479	1	Cap, Pipe (1")	29	503-1565	–	Hose, LPG (3/4 ID) – Bulk (Order by the Foot – 2 Feet Required)
6	505-0022	1	Bushing, Reducer (1 x 1/2)	30	504-0171	1	Valve
7	505-0021	1	Bushing, Reducer (3/4 x 1/2)	31	505-0132	1	Elbow, Pipe
8	502-0827	2	Hose, Barb	32	800-2085	2	Screw, Cap – Hex Head (M10 x 20)
9	505-0102	5	Nipple, Close (3/4)	33	338-3654-01	1	Harness, Wiring
10	505-0166	2	Tee, Reducing	34	332-3196	1	Clamp, J
11	148-0597	1	Regulator, Natural Gas	35	526-0018	1	Washer, Flat (1/4)
12	505-0332	1	Nipple, Pipe (3/4 x 3.00)	36	860-2007	1	Nut, Hex (M6 x 1)
13	307-2930	1	Valve, Solenoid	37	526-2080	1	Washer, Flat (M6)
14	502-0942	2	Elbow, Hose – 90° (3/8 x 5/8)	38	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
15	155-1256	1	Clamp, Muffler	39	526-2132	2	Washer, Flat (M10)
16	148-1147-02	1	Bracket, Fuel System	40	503-2157-02	2	Clamp, Hose
17	526-2100	2	Washer, Flat (M8)	41	502-0054	1	Elbow, Pipe – Street
18	503-1872-01	1	Clamp, Hose	42	508-1158	1	Grommet
19	503-0183	3	Clamp, Hose	43	338-3816-01	1	Harness, Dual Fuel
20	148-1159-02	1	Bracket, Converter				
21	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)				
22	503-2185	1	Hose, Coolant – Engine				
23	505-0099	1	Nipple, Pipe (1/4 x .88)				
24	307-0268-01	1	Valve, Solenoid				

**Exhaust System
With Threaded Exhaust Pipe**



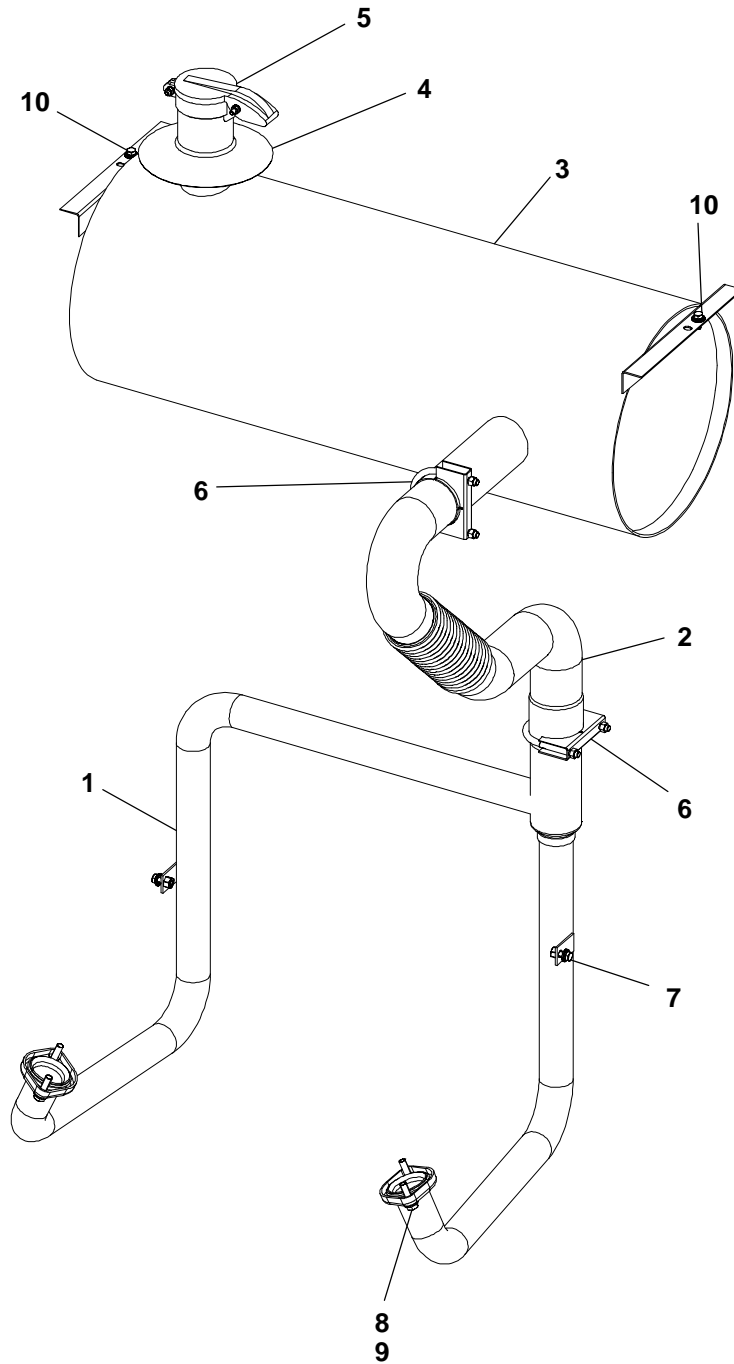
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-3377	1	Tube, Exhaust – NPT	3	526-2120	4	Washer, Flat (M10)
2	821-6003-02	2	Screw, Cap – Hex Head (M8 x 1.25 x 20)	4	800-2088	4	Screw, Cap – Hec Head (M10 x 1.5 x 35)

Muffler Residential



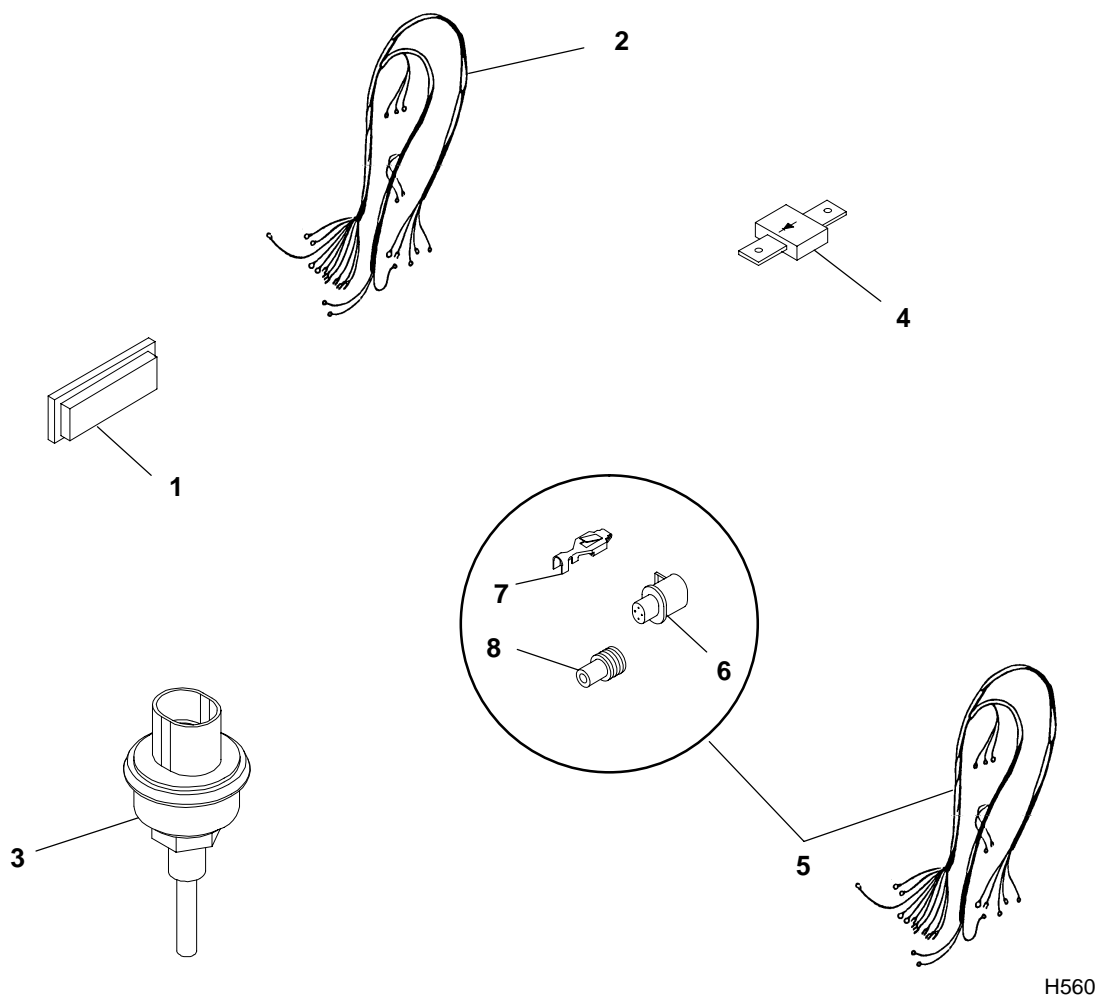
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-3378	1	Tube, Exhaust	6	800-2088	4	Screw, Cap – Hex Head (M10 x 1.5 x 35)
2	155-3193	1	Muffler	7	155-3102-02	1	Shield, Rain (Unhoused Sets)
3	155-2175	1	Clamp, Muffler (3.0" OD)	8	155-2062-10	1	Cap, Rain (Unhoused Sets)
4	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)	9	155-2062-03	1	Cap, Rain (Housed Sets)
5	526-2120	4	Washer, Flat (M10)				

Muffler Sound Attenuating Enclosure



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-3378	1	Tube, Exhaust	7	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)
2	154-3048	1	Tube, Exhaust	8	526-2120	4	Washer, Flat (M10)
3	155-3167	1	Muffler	9	800-2088	4	Screw, Cap – Hex Head (M10 x 1.5 x 35)
4	155-3102-02	1	Shield, Rain	10	821-6007-02	2	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)
5	155-2062-10	1	Cap, Rain				
6	155-2175	2	Clamp, Muffler (3" OD)				

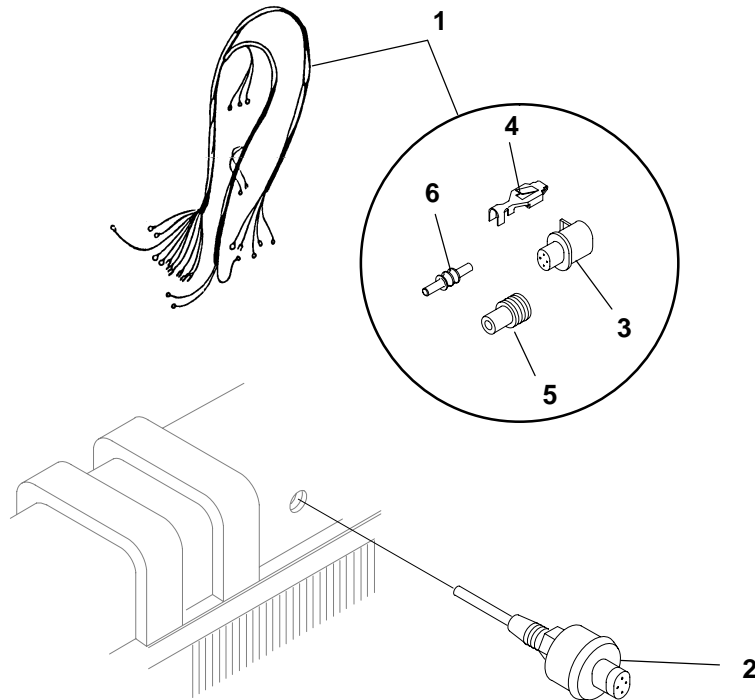
Low Coolant Level Sender With Continuously Monitored Low Coolant Level 12 Light Indicator Controls



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	322-0431-07	1	Lens, Replacement	6	323-1765	1	*Housing, Connector (4 Pin)
2	338-3035-01	1	Harness, Low Coolant Level	7	323-1709	4	*Socket, Contact (Used in S3)
3	193-0468	1	Sender, Low Coolant Level	8	323-1708	4	*Seal, Cable
4	357-0030	1	Rectifier, Silicon				
5	338-3594	1	Harness, Pigtail (Includes Parts Marked *)				

* – Parts Included in 338-3594 Pigtail Harness

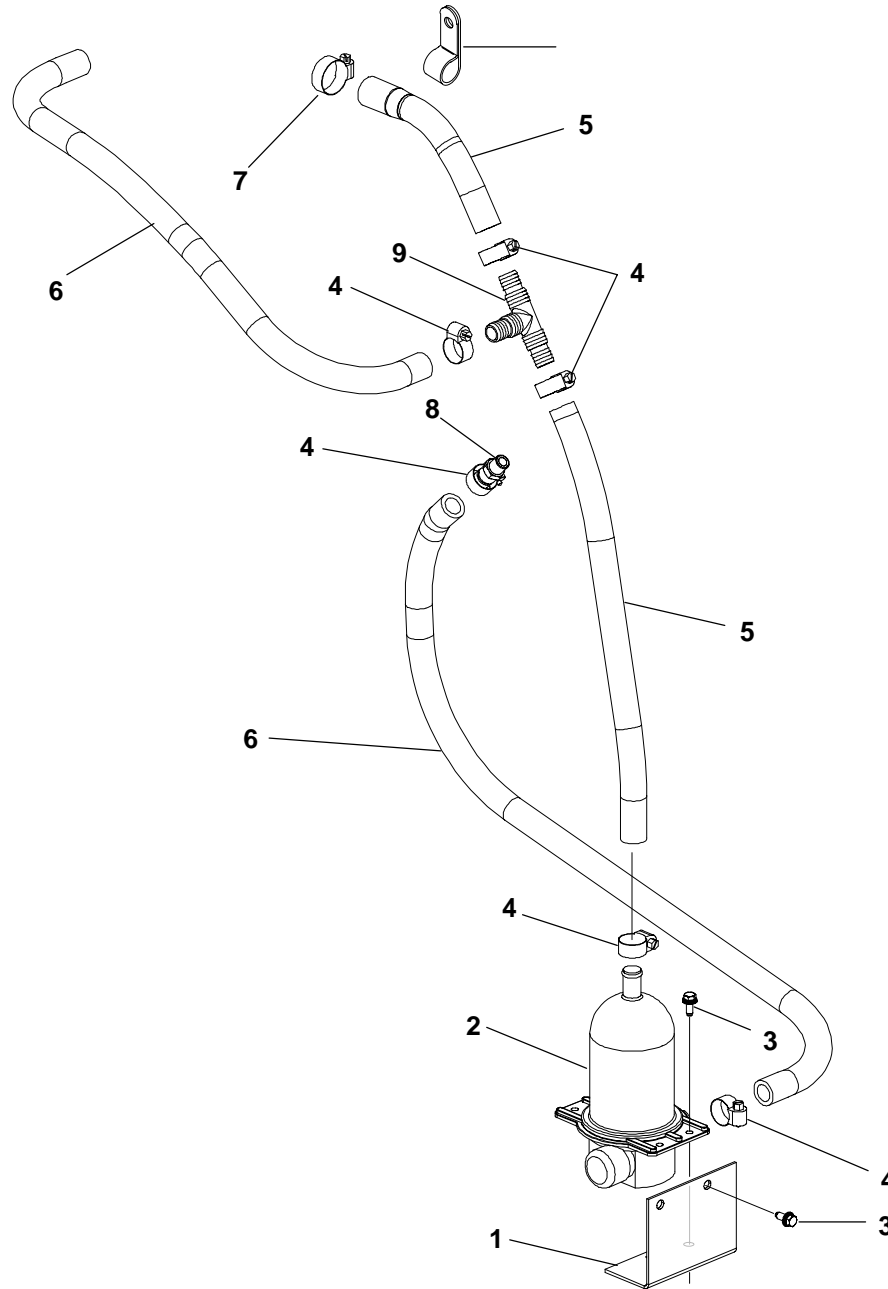
Low Coolant Level **Without Continuously Monitored Low Coolant Level**



H389,H559,H527

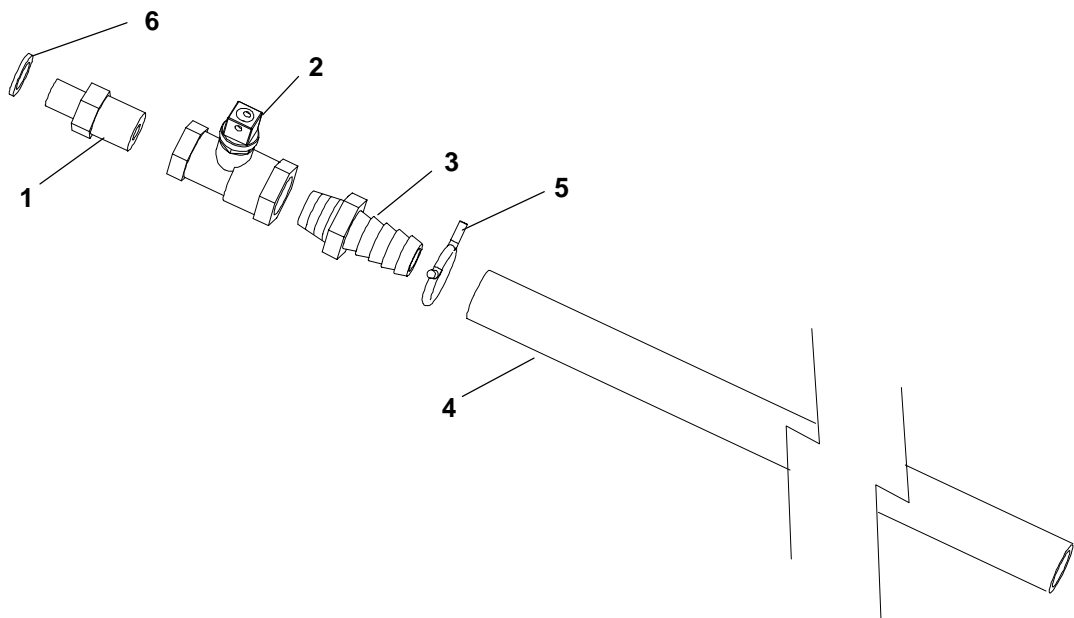
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3751	1	Harness, Low Coolant Level (Includes Parts Marked *)	5	323-1708	4	*Seal, Cable
2	193-0468	1	Sender, Low Coolant Level	6	323-1712	1	*Plug, Cavity
3	323-1765	1	*Housing, Connector (4 Pin)	* – Parts Included in 338-3751 Wiring Harness			
4	323-1709	4	*Socket, Contact (Used in S7)				

Coolant Heater



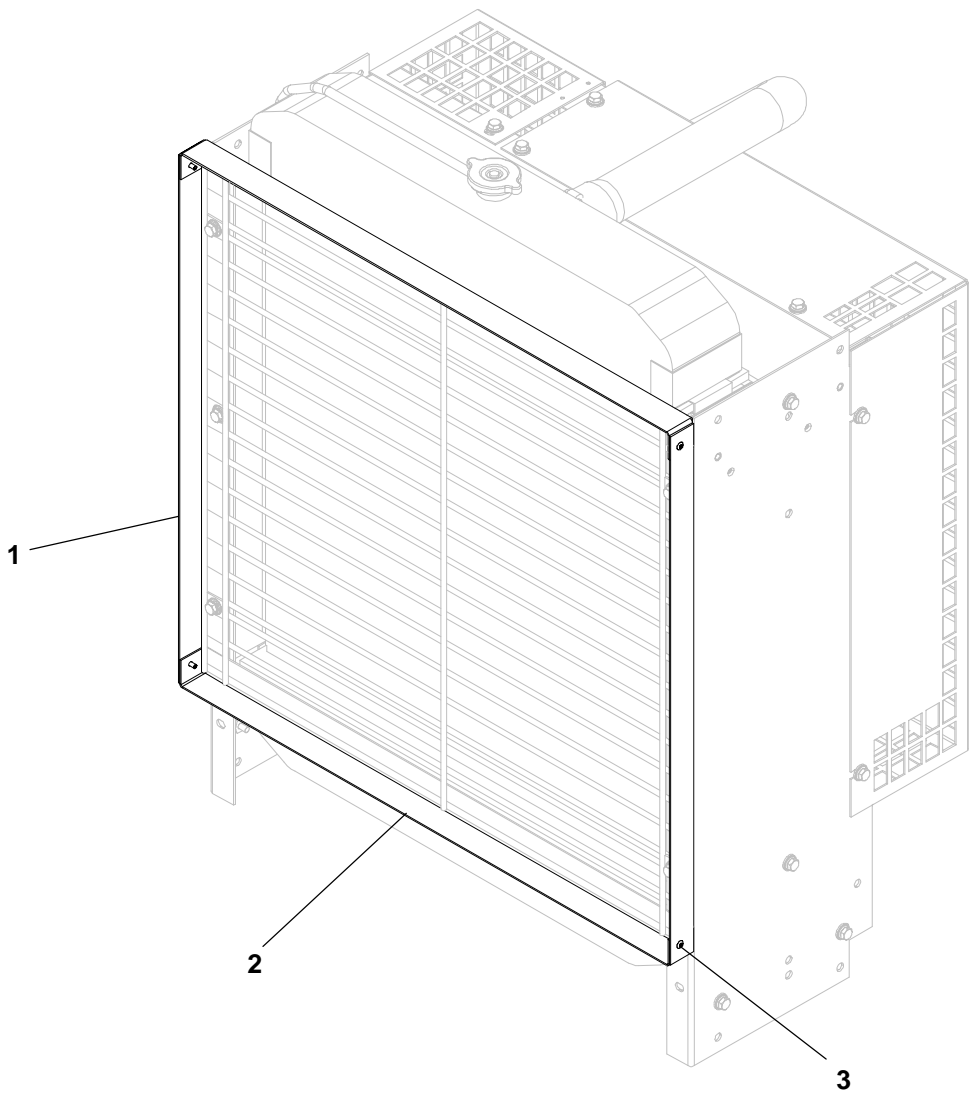
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0616	1	Bracket, Mounting – Heater	6			Hose, Coolant – Bulk (Order by the Foot)
2	333-0588-03	1	Heater, Engine Coolant 120 Volt	503-1988	–		3 Feet Required (Without Liquid LP Fuel System)
	333-0588-04	1	240 Volt	503-1988	–		6 Feet Required (With Liquid LP Fuel System)
3	821-6006-01	4	Screw, Hex Head – Stainless Steel (M6 x 1.0 x 16)	7	503-1136	1	Clamp, Hose
4			Clamp, Hose	8	502-0613	1	Adapter, Hose
	503-0183	3	Without Liquid LP Fuel System	9	502-0870	1	Tee (With Liquid LP Fuel System)
	503-0183	6	With Liquid LP Fuel System	10	332-3196	1	Clamp, J
5	503-2185	1	Hose, Coolant – Engine				

Oil Drain



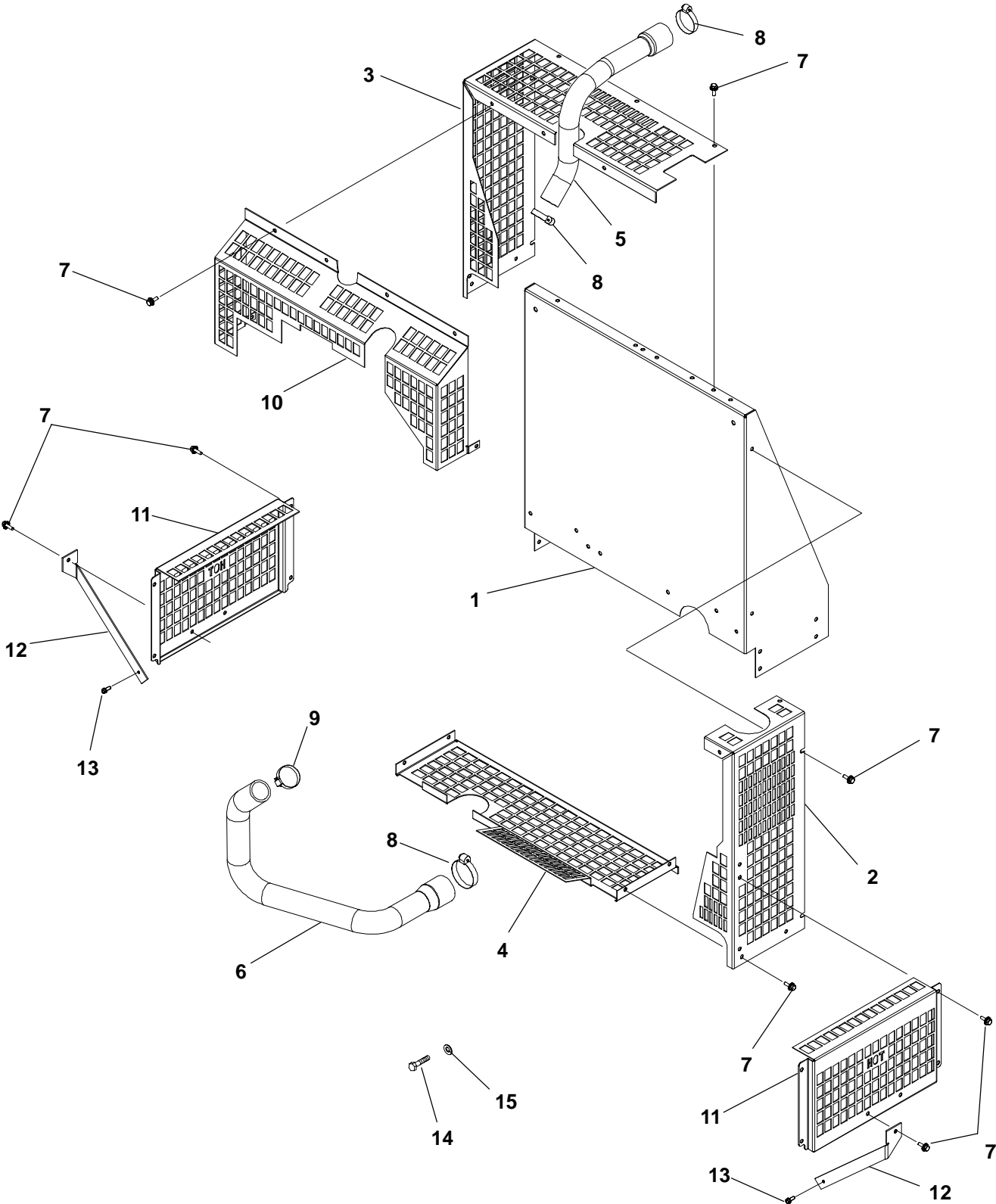
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-1054-01	1	Adapter, Oil Drain	5	503-0197	1	Clip, Hose
2	504-0011	1	Valve, Shutoff	6	102-0664	1	Gasket, Oil Drain
3	502-0827	1	Hose, Barb (1/2 x 3/4)				
4	503-0098	-	Hose, Oil Drain - Bulk (Order by the Foot - 2 Feet Required)				

Duct Adapter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4623	2	Adapter, Duct (Side)	3	818-0231-02	4	Rivet, Pop
2	130-4622	2	Adapter, Duct (Top and Bottom)				

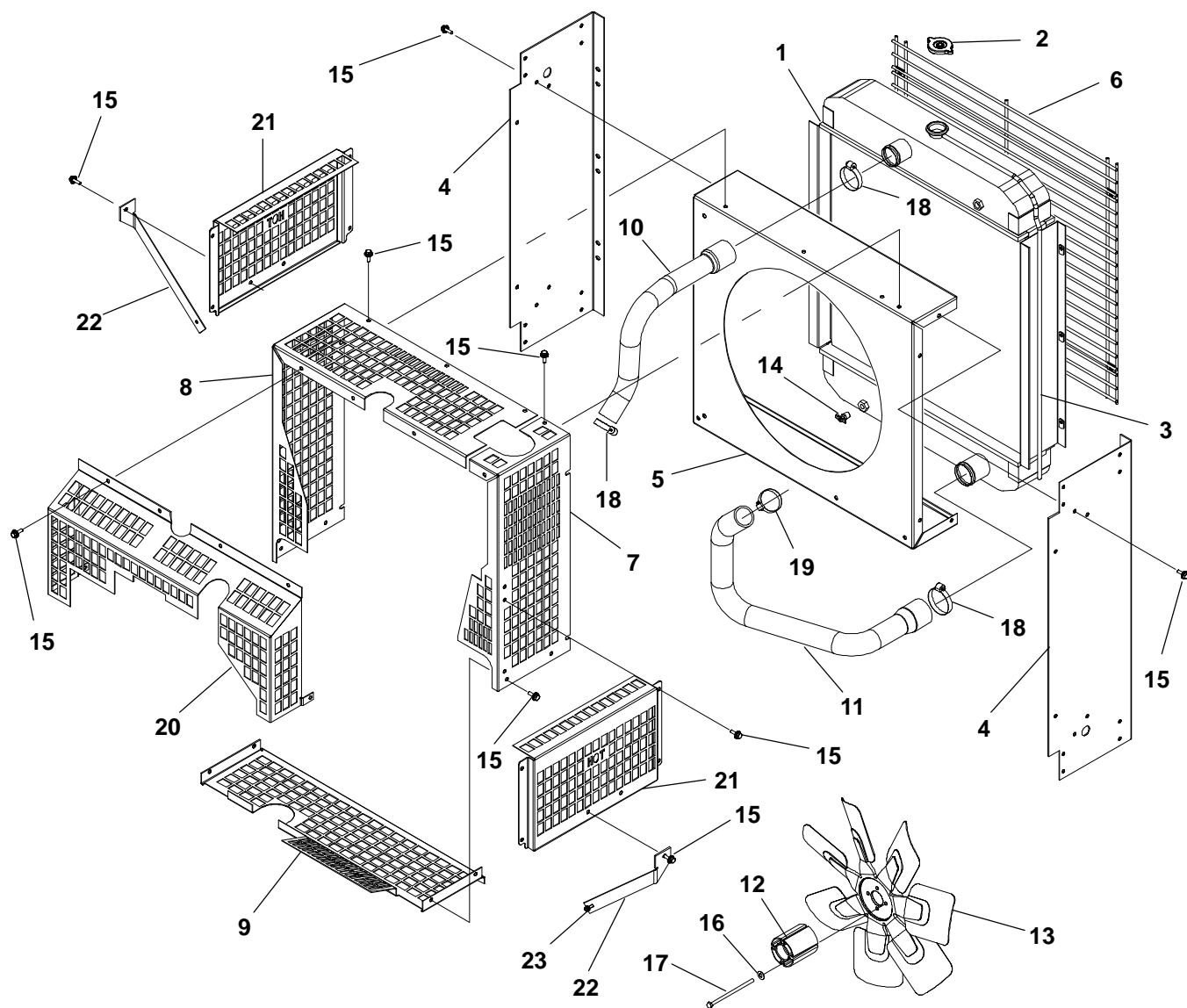
Remote Radiator



Remote Radiator

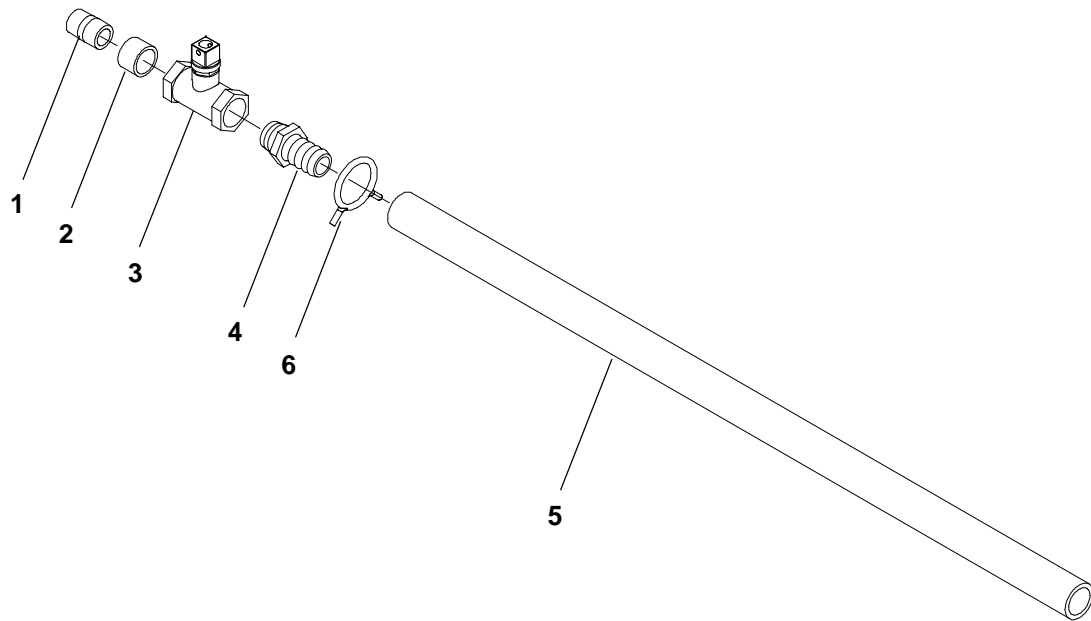
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-6603-02	1	Panel, Front – Radiator Housing	9	503-0365	1	Clamp, Hose
2	130-5269-02	1	Guard, Fan – Right Hand	10	130-5270-02	1	Guard, Fan
3	130-5271-02	1	Guard, Fan – Left Hand	11	155-3389-02	2	Shield, Heat
4	130-5272-02	1	Guard, Fan – Bottom	12	155-3391-02	2	Bracket, Shield
5	503-2169	1	Hose, Radiator – Inlet	13	815-0941-03	2	Screw, Thread Forming (M6 x 1.0 x 18)
6	503-2170	1	Hose, Radiator – Outlet	14	526-2101	4	Screw, Cap – Hex Head (M8 x 1.25 x 12)
7	821-6003-02	31	Screw, Hex Head (M8 x 1.25 x 20)	15	130-5306-02	4	Washer (M8)
8	503-0465	3	Clamp, Hose				

Radiator



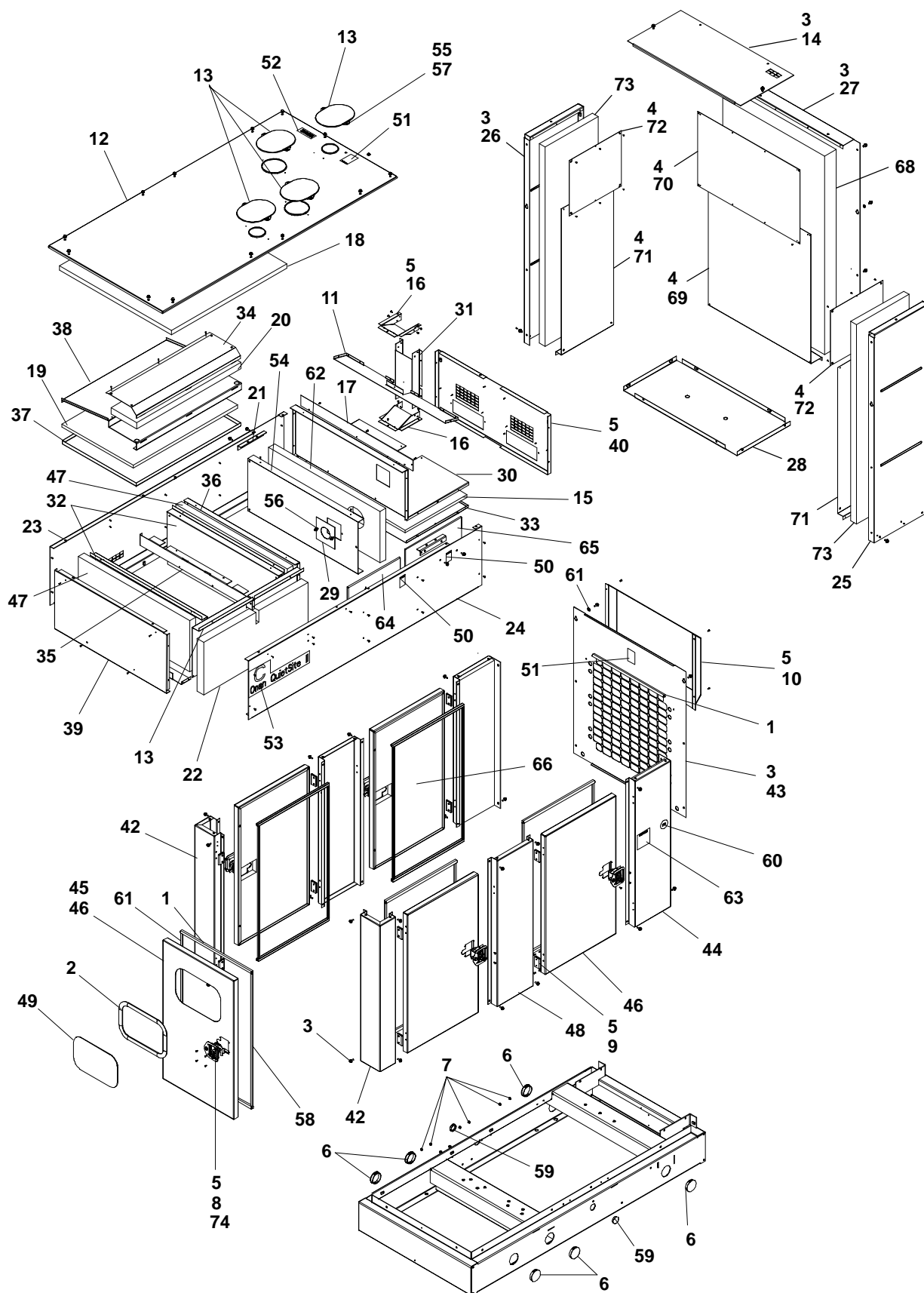
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4596-02	1	Radiator (Includes Cap and Overflow Hose)	13	130-5383	1	Fan
2	130-1788	1	Cap, Radiator – 14 PSI	14	504-0003	1	Cock, Drain
3	503-0276	–	Hose, Overflow – Bulk (Order by the Foot – 4 Feet Required)	15	821-6003-02	41	Screw, Hex Head (M8 x 1.25 x 20)
4	130-4767	2	Side, Housing	16	740-1006	4	Washer, Flat (M8)
5	130-5273-02	1	Shroud, Fan	17	800-2074	4	Screw, Cap – Hex Head (M8 x 1.25 x 120)
6	130-4602	1	Grille	18	503-0465	3	Clamp, Hose
7	130-5269-02	1	Guard, Fan – Left Hand	19	503-0365	1	Clamp, Hose
8	130-5271-02	1	Guard, Fan – Right Hand	20	130-5270-02	1	Guard, Fan
9	130-5272-02	1	Guard, Fan – Bottom	21	155-3389-02	2	Shield, Heat
10	503-2169	1	Hose, Radiator	22	155-3391-02	2	Bracket
11	503-2170	1	Hose, Radiator	23	815-0941-03	2	Screw, Thread Forming (M6 x 1.0 x 18)
12	130-5213-02	1	Spacer, Fan				

Radiator Drain



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-0085	1	Nipple, Pipe (3/8)	5	503-0098	—	Hose – Bulk (Order by the Foot – 2 Feet Required)
2	505-0117	1	Bushing, Flush (3/8 x 1/2)	6	503-0197	1	Clamp, Hose
3	504-0011	1	Valve, Shutoff (1/2)				
4	502-0827	1	Hose, Barb (1/2 x 3/4)				

Housing
F172 / F173 Enclosure

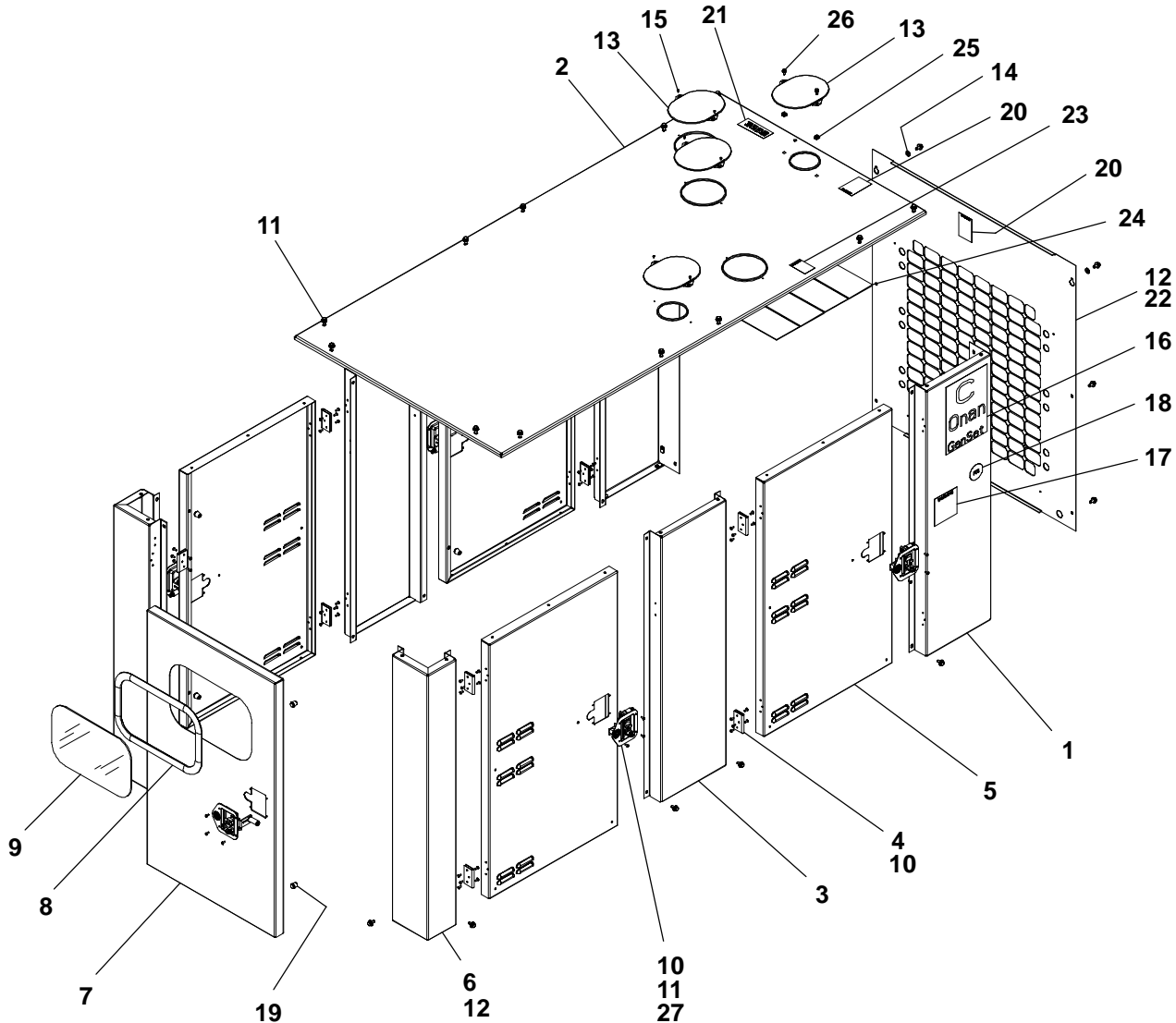


Housing F172 / F173 Enclosure

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	895-0384	11	Weather Seal Top & Bottom	40	405-5952	1	Extension, Front
2	895-0363	4.2'	Weather Strip – Window	41	155-3238	4	Cover, Exhaust
3			Screw, Hex Head (M8 x 1.25 x 20)	42	405-5916	2	Post, Corner – Housing
	821-6007-02	47	F172 Housing	43	405-5910	1	Panel, Front – Radiator Housing
	821-6007-02	65	F173 Housing	44	405-5908	2	Panel, Side – Radiator Housing
4			Rivet (1/8")	45	405-5903	1	Door, Housing W/Window Cutout
	818-0237-01	72	F172 Housing	46	405-5902	5	Door, Housing WO/Window
	818-0237-01	85	F173 Housing	47	405-5841	2	Fiberglass
5	818-0231-02	105	Rivet (3/16")	48	405-5745	2	Post, Housing – Center
6	517-0322	6	Plug, Hole	49	319-2653	1	Window, Control (if equipped)
7	517-0131	6	Plug, Hole	50	098-7451	3	Label, Caution
8	406-0918	5	Latch, Door	51	098-4730	2	Label, Caution
9	406-0831	10	Hinge	52	098-5429	1	Label, Coolant Fill
10	405-6035	1	Baffle, Air – Discharge	53	098-7470	2	Label, Model
11	405-6068	1	Baffle, Recirculation – Muffler	54	405-6034	1	Retainer, Insulation
12	405-6018	1	Roof	55	821-6006-01	2	Screw, Hex Head (M6 x 1.0 x 16)
13	405-6015	1	Cover, Perforated	56	526-0011	2	Washer, Flat
14	405-6010	1	* Cover, Discharge	57	870-0504	2	Nut, Captive – Floating
15	405-6005	1	Fiberglass – Muffler	58	895-0385	5	Weather Seal – Side
16	405-6003	2	Box, Radiator Fill	59	517-0138-07	2	Plug
17	405-6029	1	Barrier, Air Flow	60	098-4500	2	Label, Prototype Tested
18	405-6001-01	1	Fiberglass	61	895-0386	5	Weather Seal
19	405-6000-03	1	Fiberglass	62	405-6109	1	Fiberglass
20	405-6000-02	1	Fiberglass	63	098-4732	2	Label, Warning
21	405-5998	2	Support, Muffler	64	128-0154-04	1	Insulation, Foam
22	405-5997	1	Fiberglass	65	128-0252	2	Insulation, Foam
23	405-5996	1	Extension, Side – RH	66	405-5734	2	Fiberglass
24	405-5995	1	Extension, Side – LH	67	526-0451	4	Washer, Flat (M8)
25	405-5991-02	1	* Side, Discharge – LH	68	405-6000-07	1	* Fiberglass
26	405-5991-01	1	* Side, Discharge – RH	69	405-6013	1	* Retainer, Insulation
27	405-5990	1	* Discharge, Front	70	405-6132	1	* Retainer, Insulation
28	405-5988	1	* Discharge, Bottom	71	405-6014	2	* Retainer, Insulation
29	405-5987	1	Barrier, Air	72	405-6044	2	* Retainer, Insulation
30	405-5966	1	Box, Muffler	73	405-6000-04	2	* Fiberglass
31	405-6030	1	Fill Neck, Radiator	74	406-0782	5	Key, Replacement (Fits Latch 406-0918)
32	405-5961	2	Cover, Perforated				
33	405-5960	1	Retainer, Insulation				
34	405-5958	1	Inlet, Perforated				
35	405-5957	2	Angle, Support				
36	405-5956	1	Duct, Support				
37	405-5955	1	Inlet, Perforated				
38	405-5954	1	Duct, Bottom – Inlet				
39	405-5953	1	Extension, Rear				

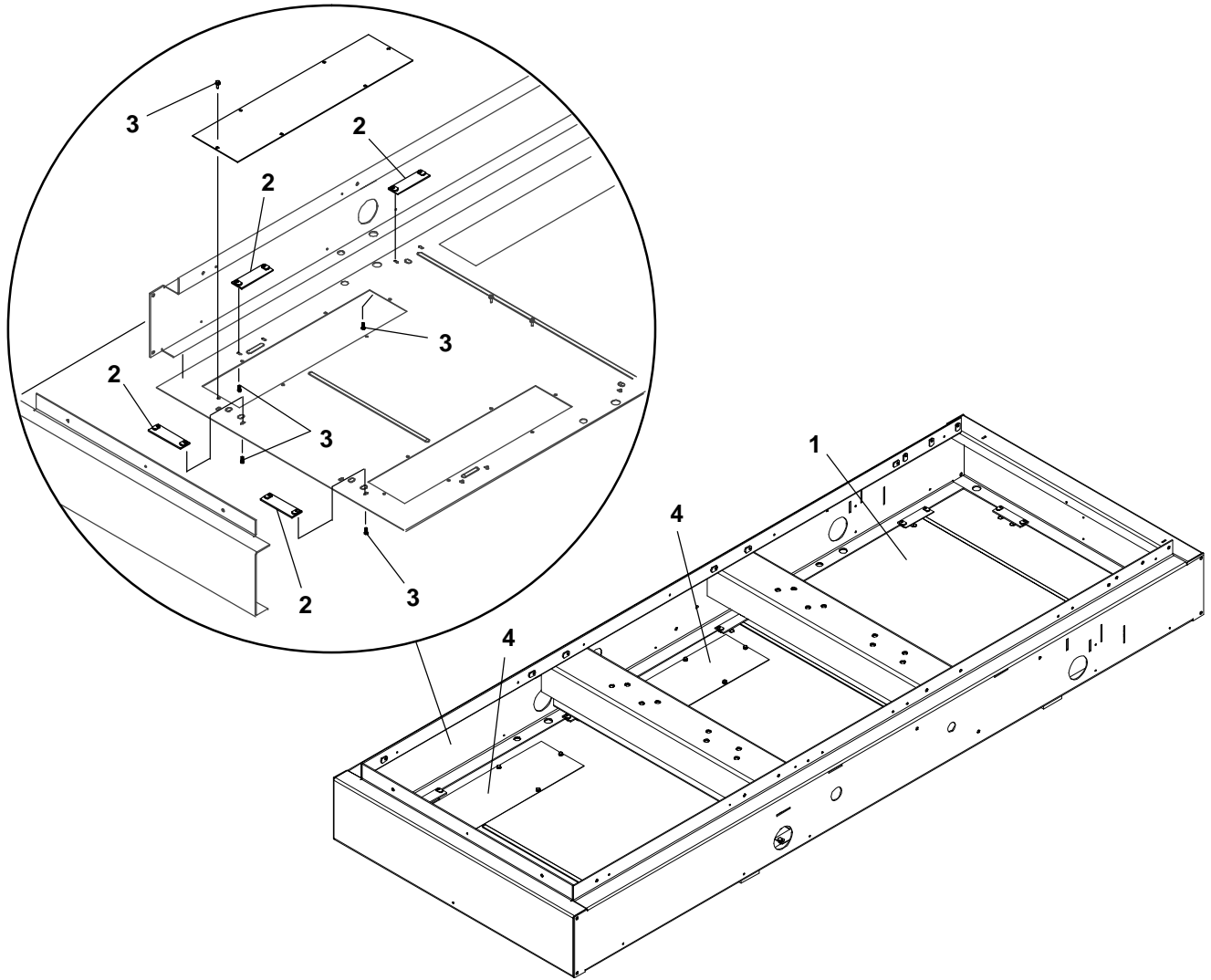
* – Parts used only on F173 Housing

Housing F182 Enclosure



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-5908	2	Panel, Side – Radiator Housing	14	526-0451	2	Washer, Flat (M8)
2	405-6018	1	Roof	15	818-0237-01	6	Rivet, Pop (1/8)
3	405-5745	2	Post, Housing – Center	16	098-6139-06	2	Label, Model Identification
4	406-0831	10	Hinge, Housing	17	098-4732	2	Label, Warning
5	405-5832	4	Door, Housing	18	098-4500	2	Label, Prototype
6	405-5916	2	Post, Corner – Housing	19	895-0382	10	Bumper, Door
7			Door, Rear	20	098-4730	2	Label, Warning
	405-5902	1	Units Without Window	21	098-5429	1	Label, Coolant Fill
	405-5903	1	Units With Window	22	405-5910	1	Panel, Front – Radiator Housing
8	895-0363	4.2'	Weatherstrip – Units with Window	23	098-7451	1	Label, Caution
9	319-2653	1	Window, Control	24	130-4848	6.3'	Insulation, Exhaust
10	818-0231-02	70	Rivet – Pop (3/16)	25	870-0504	2	Nut, Captive – Floating (M6 x 1.0)
11	406-0918	5	Latch, Door	26	821-6006-01	2	Screw, Hex Head (M6 x 1.00 x 16)
12	821-6007-02	28	Screw, Hex Head (M8 x 1.25 x 20)	27	406-0782	5	Key, Replacement (Fits Latch 406-0918)
13	155-3238	4	Cover, Exhaust				

Skid Pan

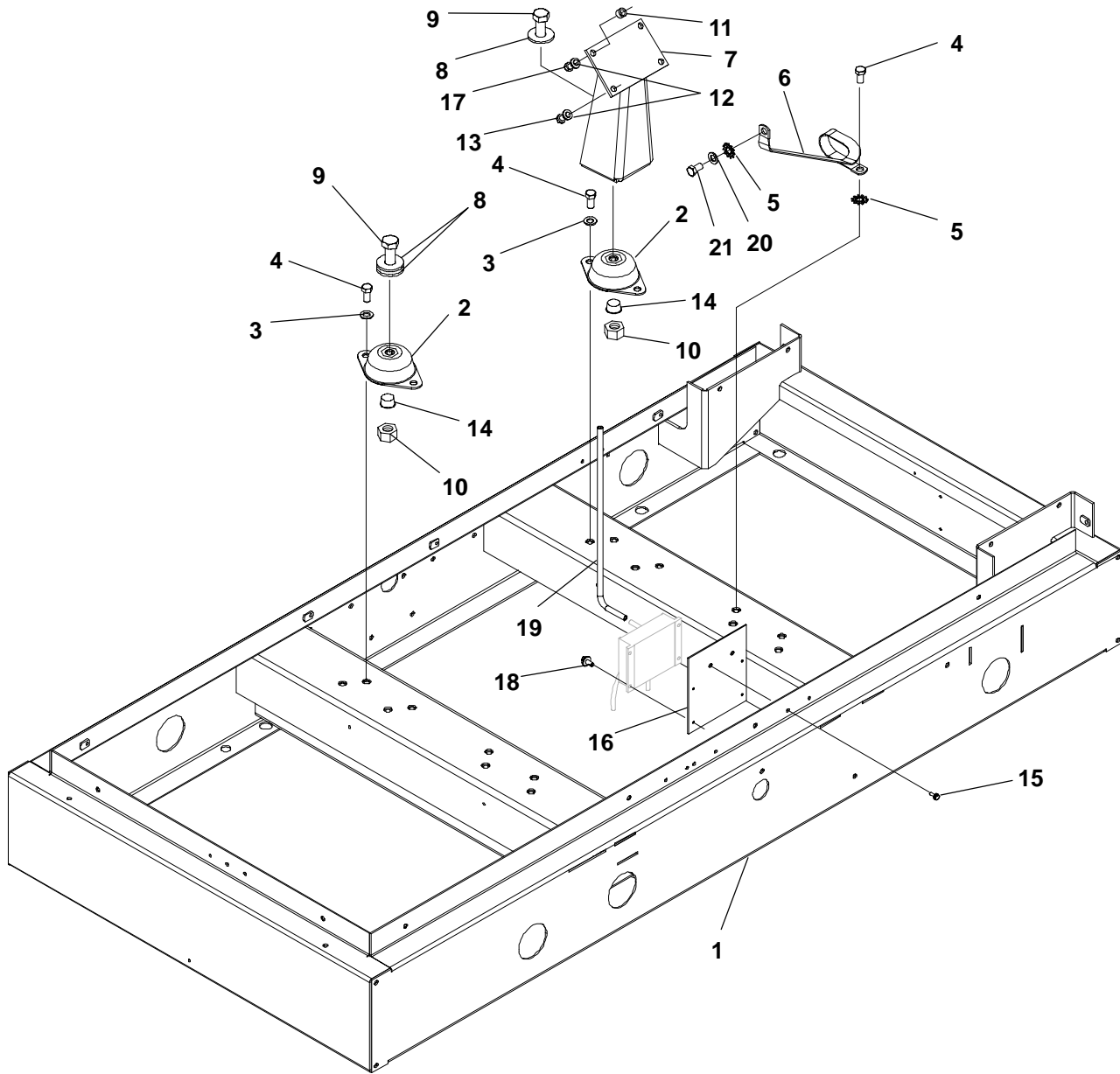


F170

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4290	1	Pan, Skid
2	403-4110	10	Clamp
3	821-6002-03	38	Screw, Self-Locking – Hex Washer Head (M6 x 1 x 16mm)

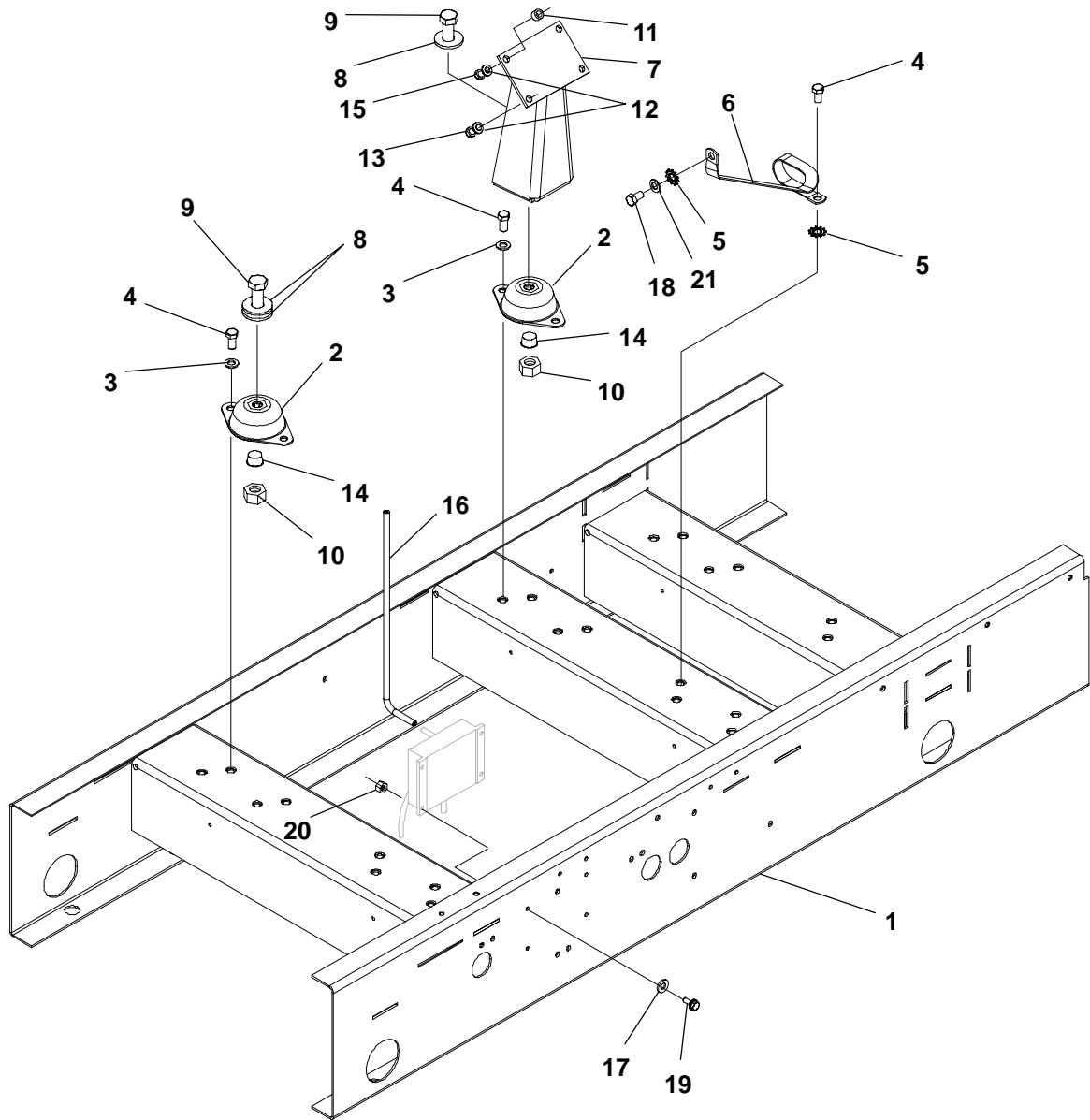
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	403-4116	3	Cover, Stub-Up

Skid Housing Compatible



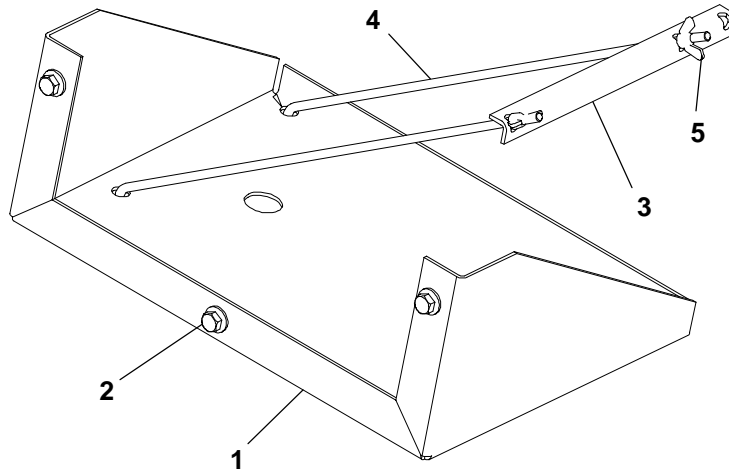
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4487-02	1	Skid	13	800-2530-03	4	Screw, Cap – Hex Head (M10 x 1.5 x 25)
2	402-0730	4	Cushion, Vibration Isolator	14	517-0094	4	Plug, Plastic
3	526-0433	8	Washer, Hardened (M12)	15	821-6006-01	2	Screw, Hex Head – Stainless Steel (M6 x 1 x 16)
4	800-2543-02	9	Screw, Cap – Hex Head (M12 x 25)	16	403-4450-02	1	Bracket, Ignition Module
5	856-0013	2	Washer, Lock – WIT (1/2)	17	800-2530-05	2	Screw, Cap – Hex Head (M10 x 1.5 x 35)
6	337-0090-01	1	Strap, Electrical	18	815-0793-03	4	Screw, Cap – Hex Flange Head – Thread Forming (M5 x 0.8 x 12)
7	403-4486-02	2	Bracket, Engine – Mounting	19	503-2179	1	Hose, Vacuum
8	526-0238-01	6	Washer, Flat (3/4)	20	526-2140	1	Washer, Flat (M12)
9	800-0607	4	Screw, Cap – Hex Head (3/4-10 x 2)	21	800-2110	1	Screw, Cap – Hex Head (M12 x 1.75 x 20)
10	862-0044	4	Nut, Hex – Heavy (3/4-10)				
11	403-4496-02	2	Spacer, Motor Mount				
12	526-0174	6	Washer, Flat (M10)				

Skid Non-Housing Compatible



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4497-02	1	Skid	13	800-2530-03	4	Screw, Cap – Hex Head (M10 x 1.5 x 25)
2	402-0730	4	Cushion, Vibration Isolator	14	517-0094	4	Plug, Plastic
3	526-0433	8	Washer, Hardened (M12)	15	800-2530-05	2	Screw, Cap – Hex Head (M10 x 1.5 x 35)
4	800-2543-02	9	Screw, Cap – Hex Head (M12 x 25)	16	503-2179	1	Hose, Vacuum
5	856-0013	2	Washer, Lock – WIT (1/2)	17	526-0008	8	Washer, Flat (3/16)
6	337-0090-01	1	Strap, Electrical	18	800-2110	1	Screw, Cap – Hex Head (M12 x 1.75 x 20)
7	403-4486-02	2	Bracket, Engine – Mounting	19	800-2010	4	Screw, Cap – Hex Head (M5 x 0.8 x 20)
8	526-0238-01	6	Washer, Flat (3/4)	20	860-2006	4	Nut, Hex (M5 x 0.8)
9	800-0607	4	Screw, Cap – Hex Head (3/4-10 x 2)	21	526-2140	1	Washer, Flat (M12)
10	862-0044	4	Nut, Hex – Heavy (3/4-10)				
11	403-4496-02	2	Spacer, Motor Mount				
12	526-0174	6	Washer, Flat (M10)				

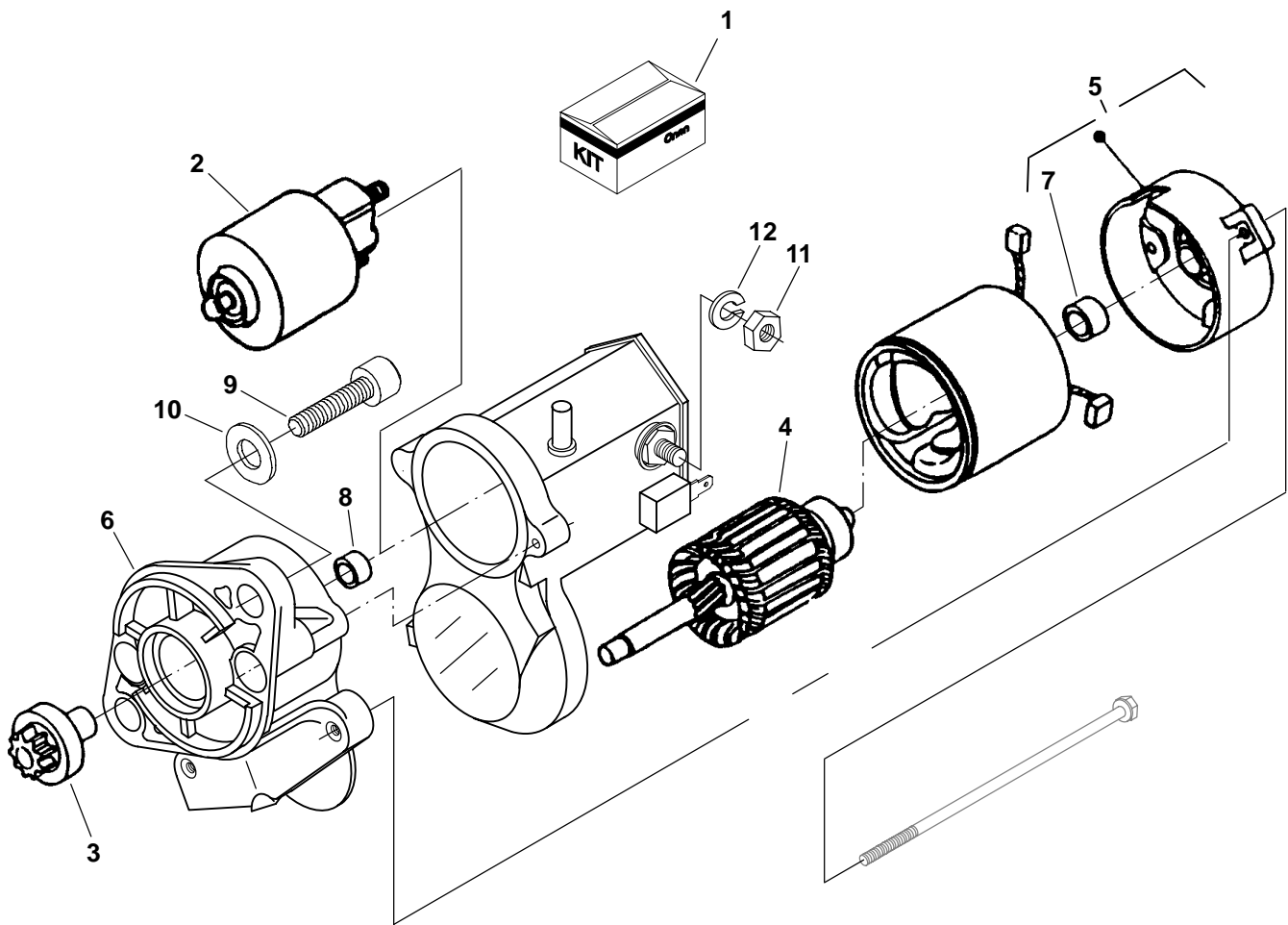
Battery Tray



F065

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4267	1	Tray, Battery	3	416-1033	1	Hold Down, Battery
2	821-6007-02	3	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)	4	416-0993-02	2	Rod, Hold Down – Battery
				5	865-0030	2	Nut, Wing (M6)

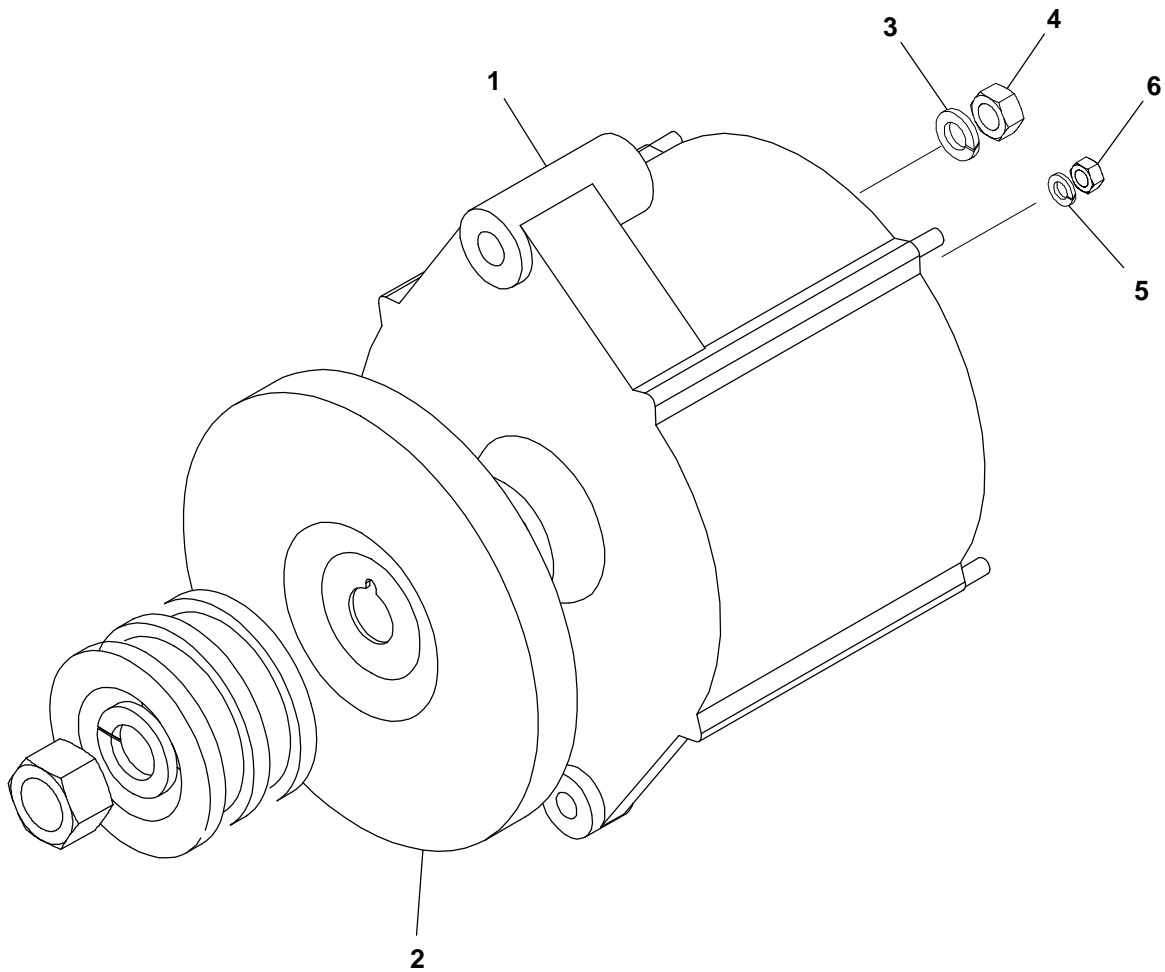
Starter Components



CP01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-2213	1	Starter (1.4kW)	7	191-2221	1	Bearing, Commutator End
1	191-2215	1	Kit, Starter Brush	8	191-2222	1	Bearing, Pinion End
2	191-2216	1	Switch	9	186-6675	2	Screw, Socket Head Cap (M10 x 1.5 x 35mm)
3	191-2217	1	Clutch	10	186-6619	2	Washer, Spring (M10)
4	191-2218	1	Armature	11	186-6274	1	Nut, Hex (M8 x 1.25)
5	191-2219	1	Frame, Commutator End	12	186-6618	1	Washer, Spring (M8)
6	191-2220	1	Housing				

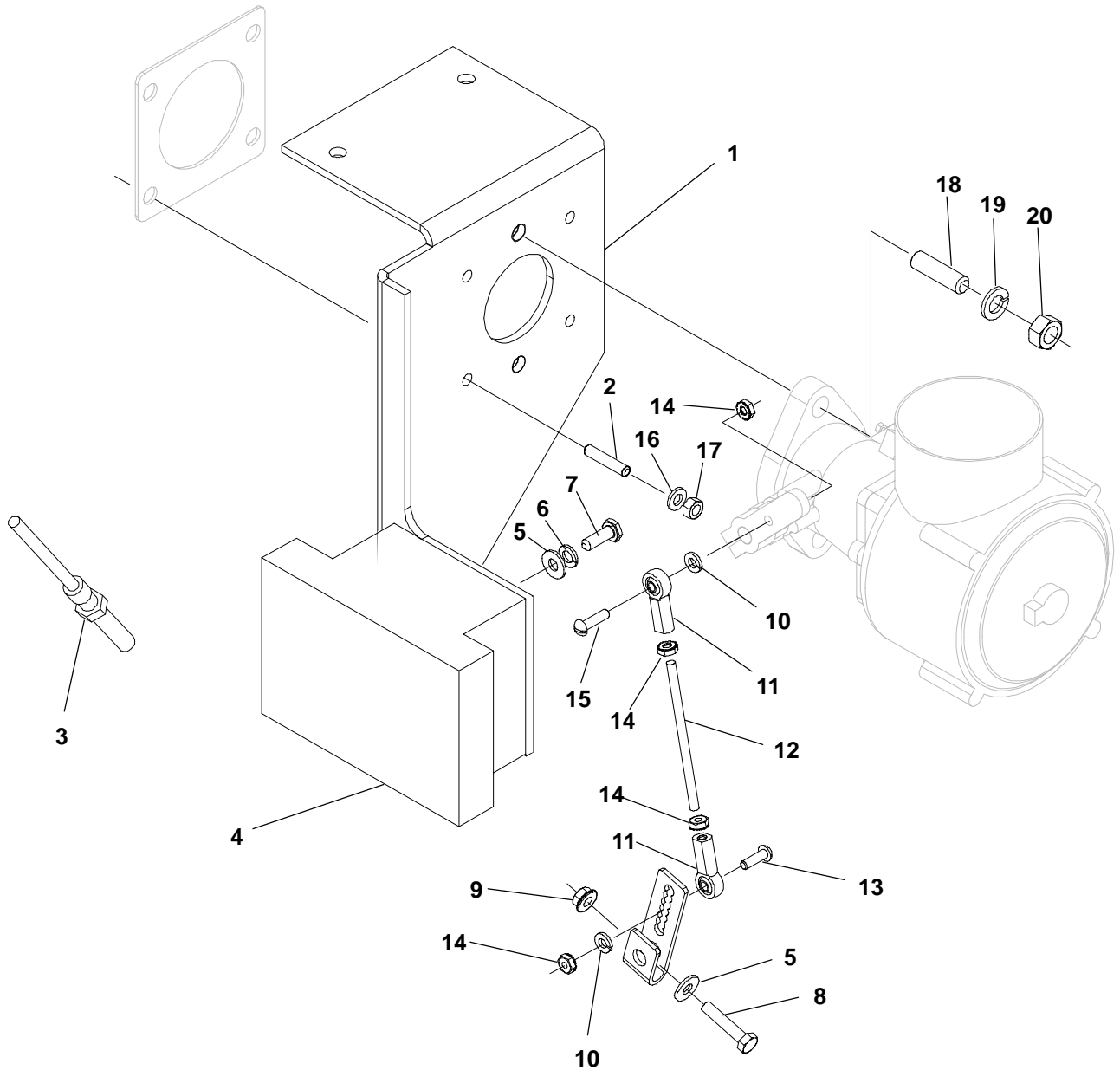
Alternator



CP01

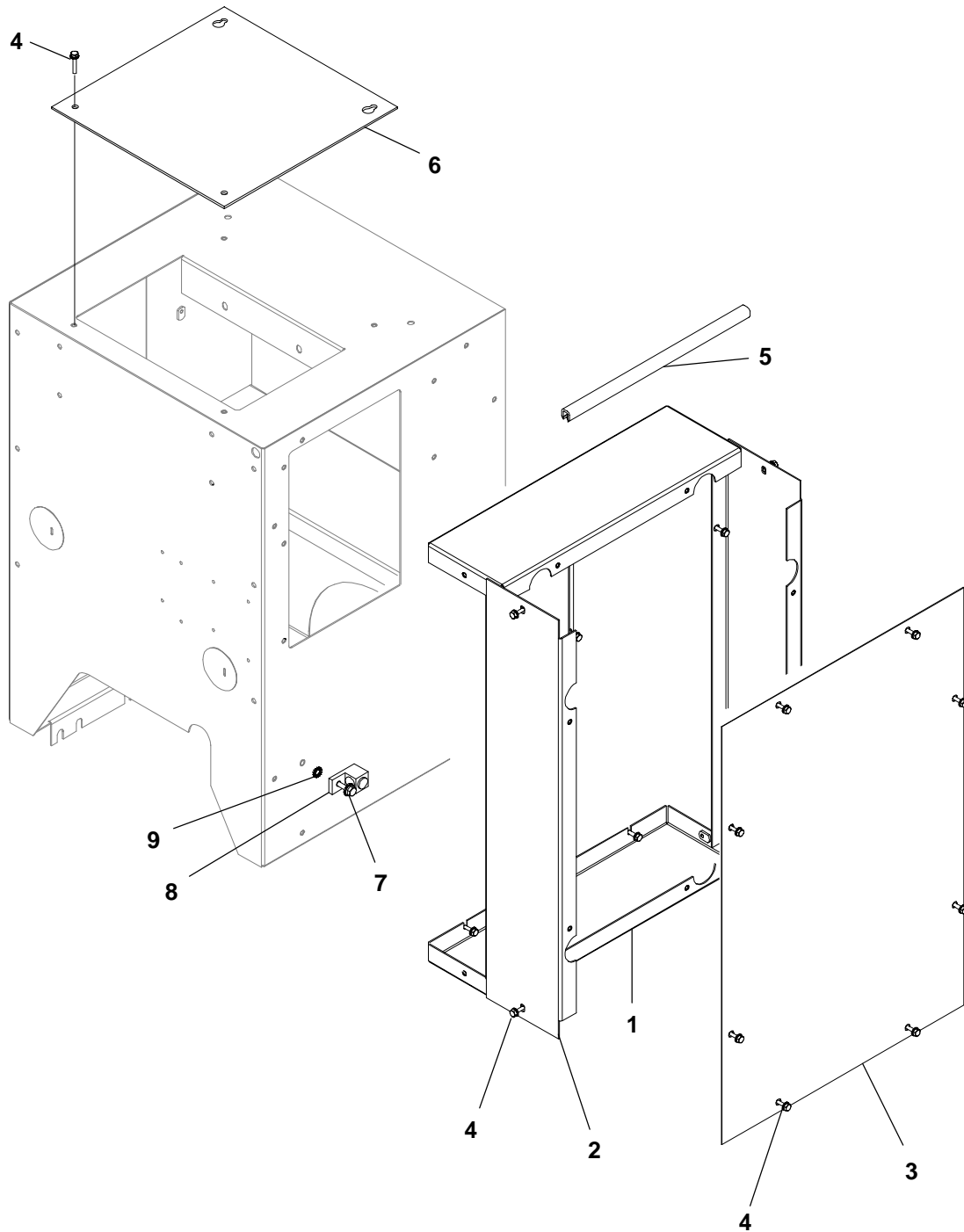
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-2209-01	1	Alternator	4	860-2008	1	Nut, Hex (M8 x 1.25)
2	191-1981	1	Fan, Alternator	5	850-2005	2	Washer, Lock (M5)
3	850-2008	1	Washer, Lock (M8)	6	860-2006	2	Nut, Hex (M5 x 0.8)

Governor



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2766-02	1	Bracket, Governor	12	150-2697-01	1	Rod, Governor
2	520-1024-01	4	Stud (M6 x 1.0 x 30)	13	813-0102	1	Screw, Machine – Slotted – Round Head (#10-32 x 0.625)
3	150-2651	1	Pickup, Magnetic Governor	14	870-0131	4	Nut, Hex – W/ET
4	150-2692-01	1	Governor	15	813-0103	1	Screw, Machine – Slotted – Round Head (#10-32 x 0.75)
5	526-0018	5	Washer, Flat (1/4)	16	526-2080	4	Washer, Flat (M6)
6	850-0040	4	Washer, Lock – Split (1/4)	17	862-0026-54	4	Nut, Hex (M6 x 1.0)
7	800-0602	4	Screw, Cap – Hex Head (1/4-28 x .75)	18	803-2001-19	2	Screw, Socket Set (M10 x 1.5 x 35)
8	800-2036	1	Screw, Cap – Hex Head (M6 x 1 x 30)	19	850-0114-55	2	Washer, Lock – Split (M10)
9	870-2054	1	Nut, Hex – Self-Locking – Flange Head (M6 x 1)	20	860-2009	2	Nut, Hex (M10 x 1.5)
10	850-0030	2	Washer, Lock – Split (#10)				
11	151-0769	2	Swivel, Governor Rod End				

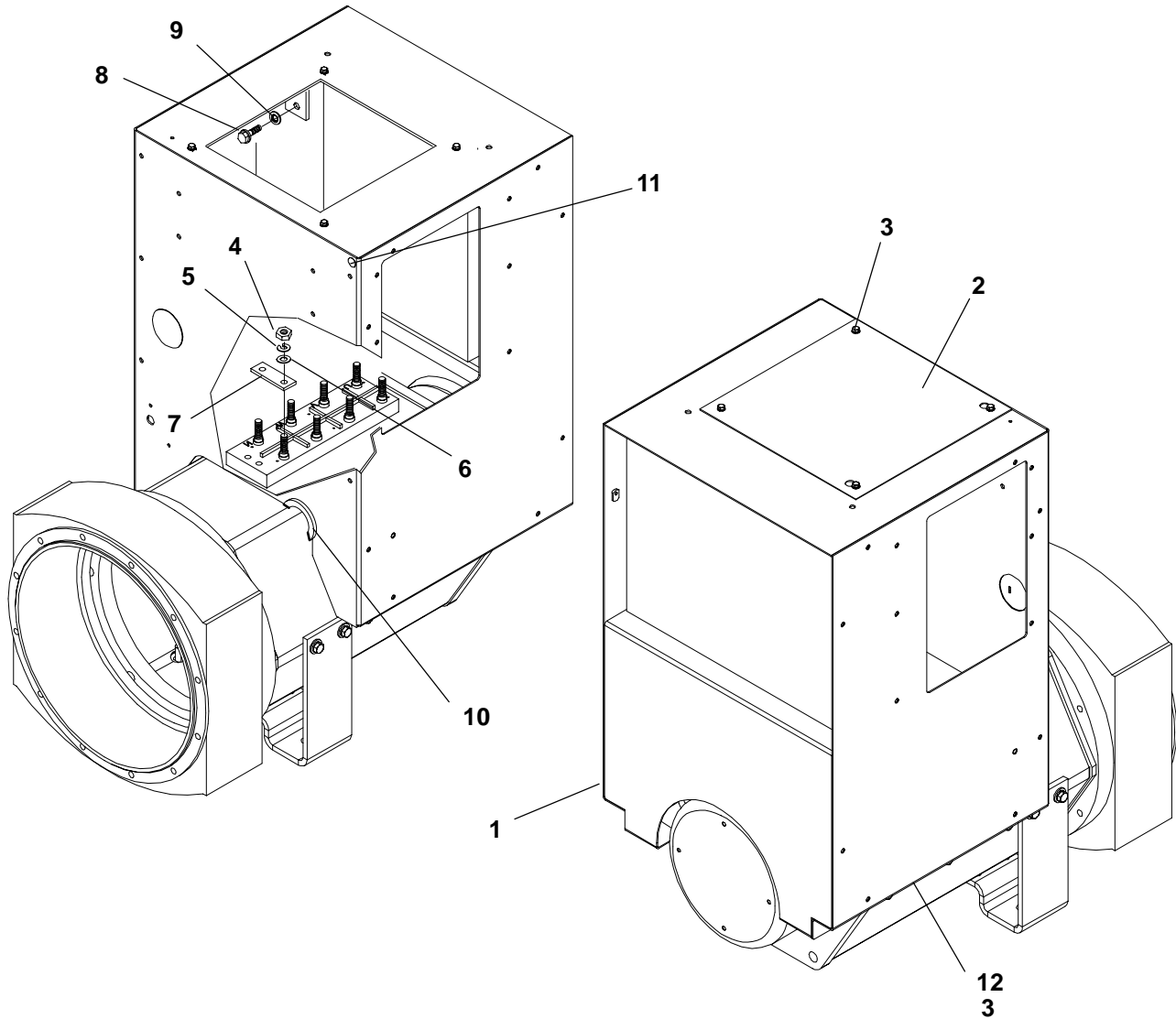
Entrance Box



K882

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3072	2	Panel, End – CB Box	6	319-2996	1	Cover, Control Housing
2	319-2978	2	Panel, Side – CB Box	7	821-6003-02	1	Screw, Hex Head (M8 x 1.25 x 20)
3	319-2979-02	1	Cover, CB Box	8	332-1473	1	Lug, Solderless
4	821-6002-03	24	Screw, Hex Head (M6 x 16)	9	856-0008	1	Washer, Lock – EIT (5/16)
5	508-0239	–	Edging – Bulk (Order By The Foot – 2 Feet Required)				

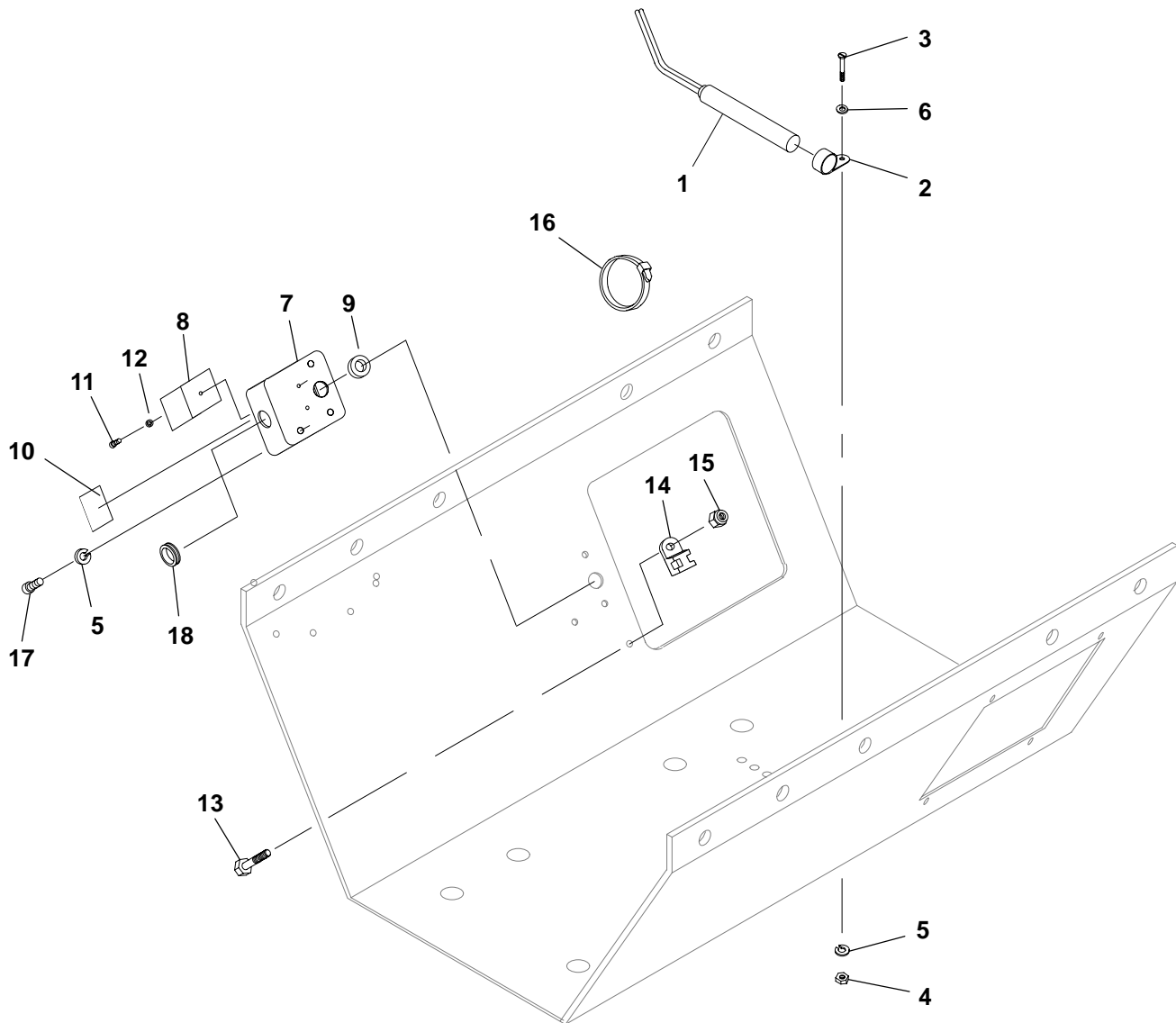
Control Housing



CP01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3208	1	Box, Control	7	332-2987	4	Link, Terminal
2	319-2996	1	Cover, Housing – Control	8	821-5003-01	4	Screw, Lock (5/16-18 x .50)
3	821-6002-03	9	Screw, SEMS – Hex Head (M6 x 1 x 16)	9	856-0008	1	Washer, Lock – ET (5/16)
4	860-2009	8	Nut, Machine – Hex (M10 x 1.5)	10	508-0305-02 .33'		Edging
5	850-2010	8	Washer, Lock (M10)	11	517-0135	1	Plug, Hole
6	526-2120	8	Washer, Flat (M10)	12	319-3207	1	Bracket, Mounting – Control

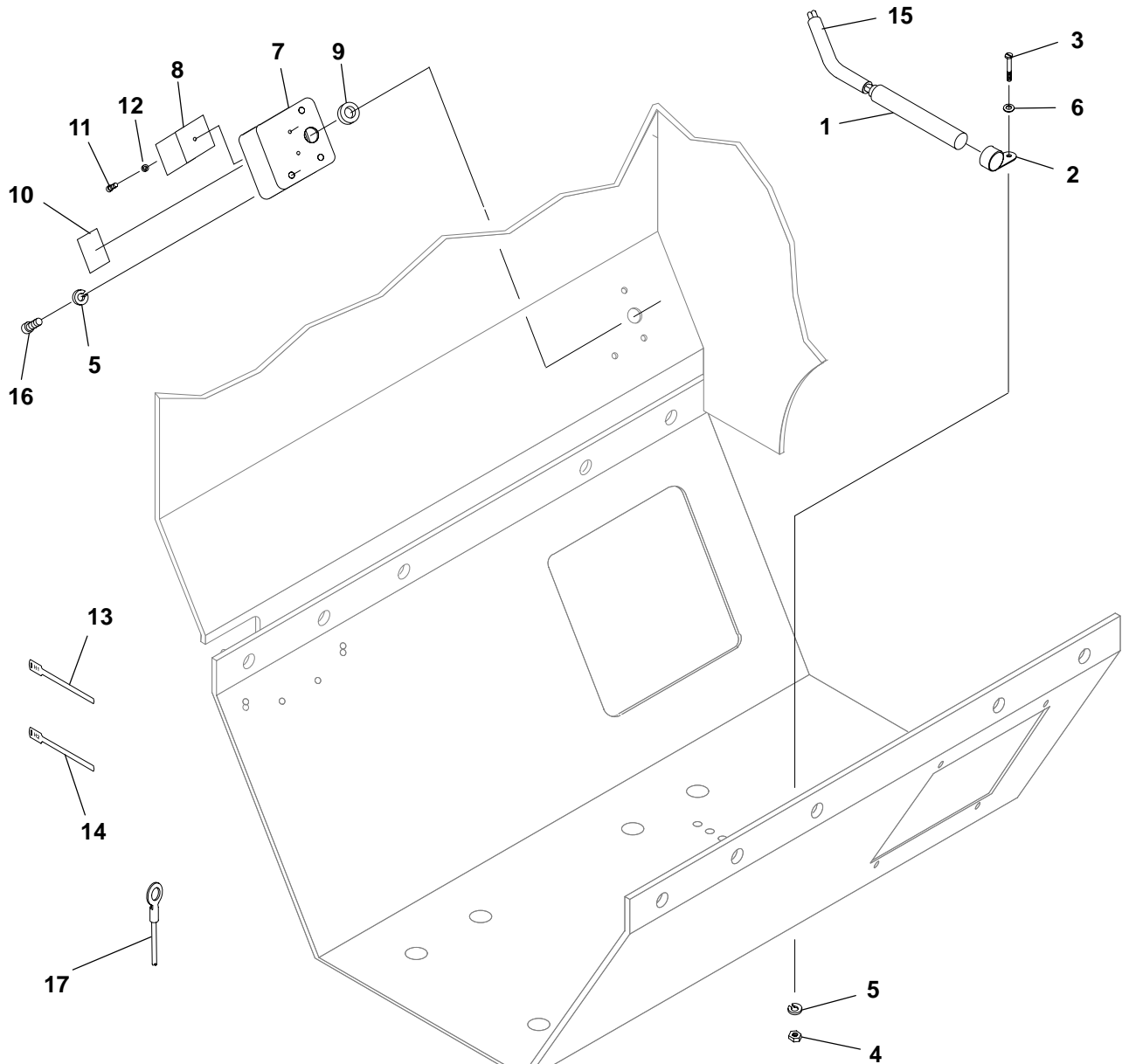
Generator Heater (Standard)



A292,A293

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0438-07	1	Cartridge, Heater	10	098-7281	1	Label, Warning – Heater
	333-0438-08	1	120 Volt	11	822-3047	1	Screw, Pan Head (M3 x 20)
2	332-3024-11	2	240 Volt	12	850-2003	1	Washer, Lock (M3)
3	822-3075	5	Clamp, Loop	13	800-3034	1	Screw, Cap – Hex Head (M4 x .7 x 12)
4	860-2005	2	Screw, Pan Head (M4 x 16)	14	332-3228	1	Mount, Tie – Cable
5	850-2004	4	Nut, Hex (M4)	15	870-2064-01	1	Nut, Nylon
6	526-2050	2	Washer, Lock (M4)	16	332-1389	1	Tie, Cable
7	330-0142	1	Washer, Flat (M4)	17	815-0792-04	2	Screw, Countersunk – Pan Head (M4 x .7 x 12)
8	332-3023	1	Box, Terminal – Heater	18	517-0021	1	Plug, Dot – Button
9	508-0228	1	Block, Terminal				
			Grommet				

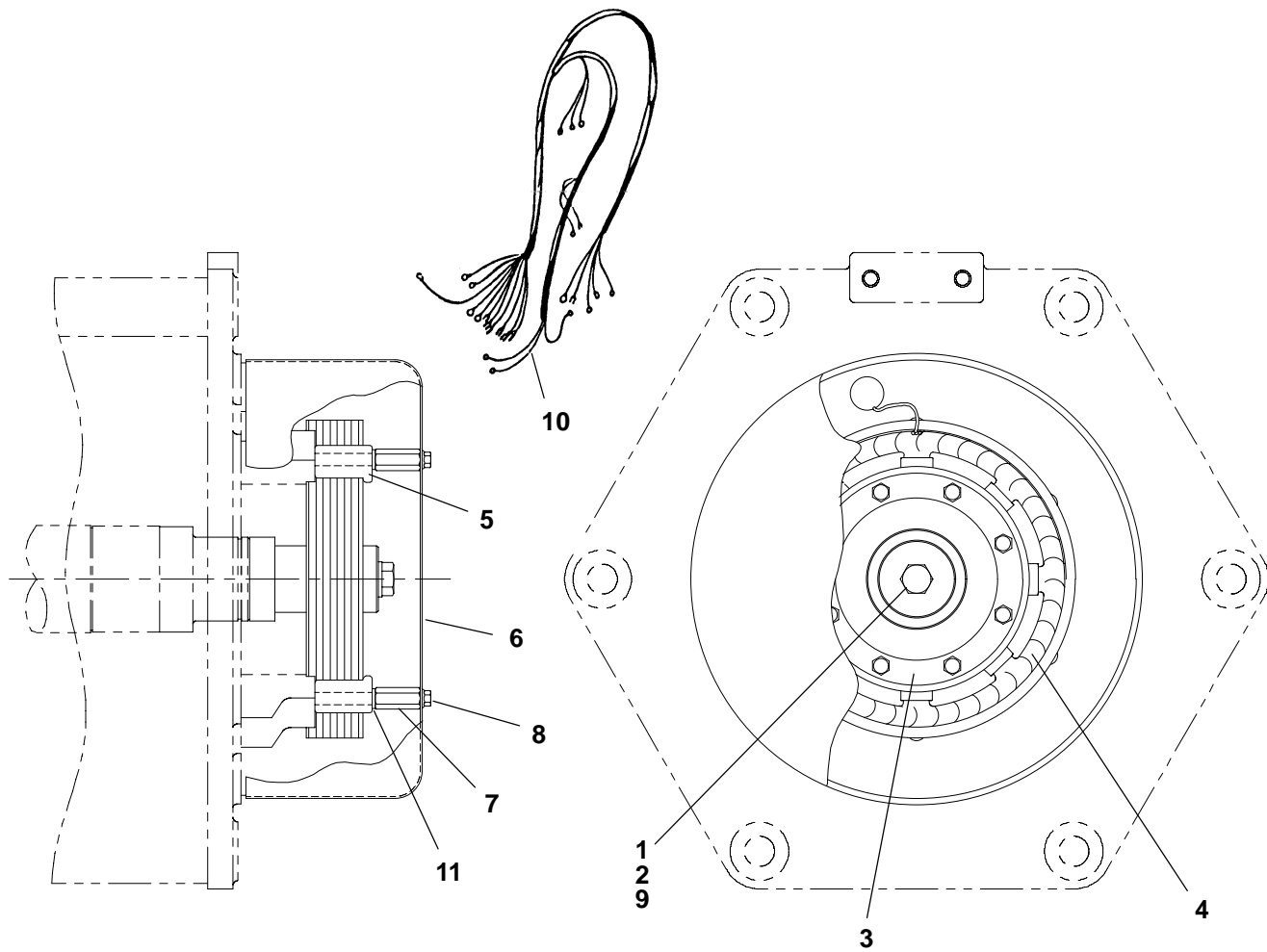
Generator Heater (Quiet Site)



A292,293

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0438-07	1	Cartridge, Heater 110-125 Volt	9	508-0228	1	Grommet
	333-0438-08	1	220-260 Volt	10	098-6142	1	Label, Heater Adjust
2	332-3024-11	2	Clamp, Loop	11	822-3047	1	Screw, Pan Head (M3 x 20)
3	822-3075	5	Screw, Pan Head (M4 x 16)	12	850-2003	1	Washer, Lock (M3)
4	860-2005	1	Nut, Hex (M4)	13	532-0474-19	1	Marker, Wire (H1)
5	850-2004	3	Washer, Lock (M4)	14	532-0474-20	1	Marker, Wire (H2)
6	526-2050	1	Washer, Flat (M4)	15	898-1254-19	1	Sleeving, Insulating
7	330-0142	1	Box, Terminal - Heater	16	815-0242	2	Screw, Thread Cutting - Pan Head (#8-32 x .5)
8	332-3023	1	Block, Terminal	17	226-4780	2	Lead

Permanent Magnet Generator (PMG)

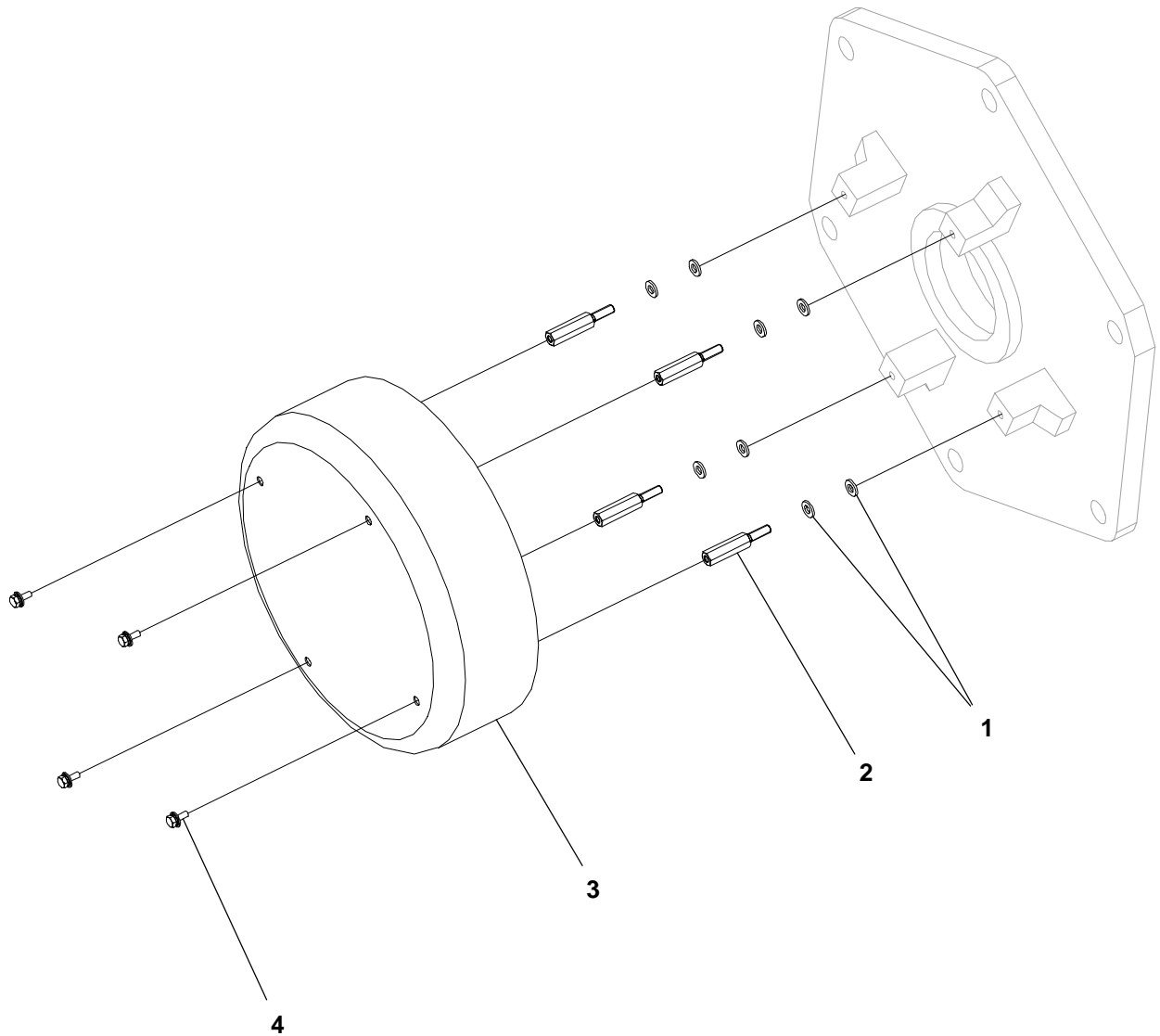


B184

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	775-0049	1	Pin, Parallel
2	815-0761-01	1	Bolt, Mounting – PMG
3	201-3446	1	Rotor, PMG
4	220-4233	1	Stator, PMG
5	232-3972	4	Clamp, Stator – PMG
6	234-0875-02	1	Cover, End Bell

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	232-3462-03	4	Spacer, Cover
8	821-6001-01	4	Screw, SEMS – Hex Head (M5 x 0.8 x 10)
9	850-2010	1	Washer, Lock (M10)
10	338-3011	1	Harness, Wiring – PMG
11	850-2006	4	Washer, Lock (M6)

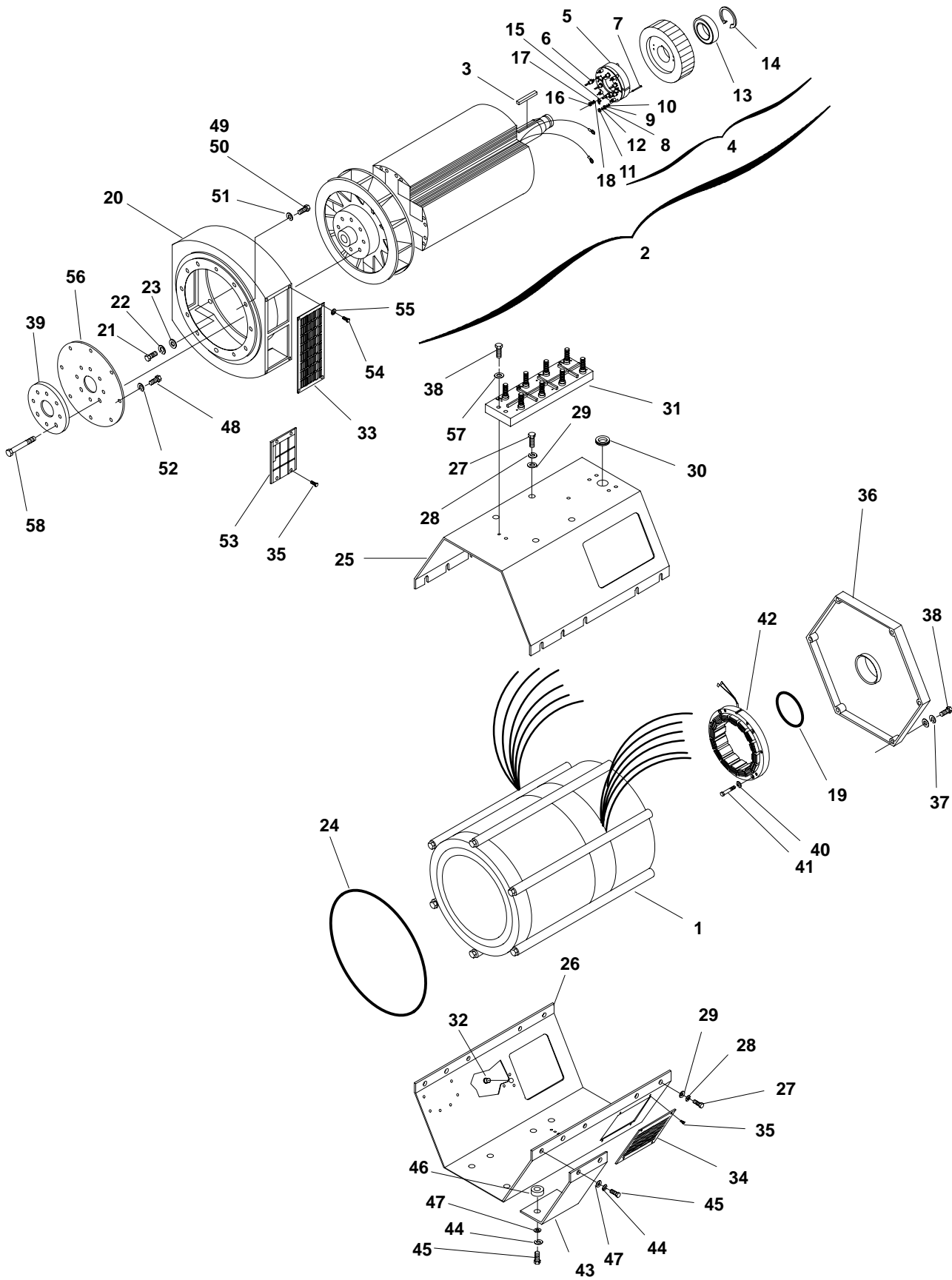
End Bell



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	526-2080	8	Washer, Flat (M6)
2	232-3462-01	4	Spacer, Cover
3	234-0875-01	1	Cover, End Bell

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	821-6001-01	4	Screw, Hex Head (M5 x 0.8 x 10)

Generator



Generator

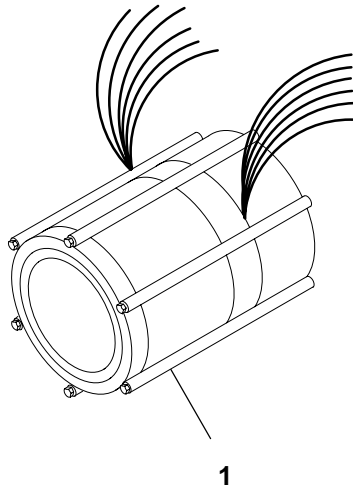
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator, Generator (See separate page for part numbers)	28			Washer, Lock – Spring (M10)
					850-0114-55	8	130/160 Stack Length
					850-0114-55	10	180/240 Stack Length
2			Rotor Assembly, Generator (Includes parts marked *)	29			Washer, Flat (M10)
	201-3557-01	1	130mm Stack Length		526-0399-62	8	130/160 Stack Length
	201-3557-02	1	160mm Stack Length		526-0399-62	10	180/240 Stack Length
	201-3557-03	1	180mm Stack Length	30	508-1057	1	Grommet
	201-3557-04	1	240mm Stack Length	31	232-3421	1	Block, Terminal
3			* Key, Exciter Rotor	32	517-0135	1	Plug, Hole
	515-0298-01	1	130, 160mm Stack Length	33	234-0990	2	Guard, Fan
	515-0298-02	1	180, 240mm Stack Length	34	234-0878	2	Screen, Air Inlet
4			* Rotor Assembly, Exciter (Includes Parts Marked #)	35	821-6001-02	24	Screw, SEMS (M5 x 12mm)
	201-3434-01	1	130, 160mm Stack Length	36	211-0422	1	Bell, End
	201-3434-02	1	180, 240mm Stack Length	37	850-0114-54	3	Washer, Lock (M8)
				38	800-2060	3	Screw, Cap – Hex Head (M8 x 1.25 x 35)
5			** Rectifier Assembly (Includes Parts Marked +)	39	232-3960	1	Plate, Pressure
	357-0091	1	Forward (with Positive Diode)	40	850-2006	4	Washer, Lock – Spring (M6)
	357-0092	1	Reverse (with Negative Diode)	41			Screw, Cap – Hex Head (M6 x 1)
6			**+ Diode		800-2038	4	130, 160mm Stack Length
	358-0135-01	3	Positive		800-2040	4	180, 240mm Stack Length
	358-0135-02	3	Negative	42			Stator, Exciter
7	800-3009	3	**+ Screw, Cap – Hex Head (M4 x 35mm) (CR1,2,3,4,5,6)		220-4293-04	1	130, 160mm Stack Length
8	860-2005	3	**+ Nut, Hex (M4)		220-4293-05	1	180, 240mm Stack Length
9	850-2004	3	**+ Washer, Lock – Spring (M4)	43	232-3940	2	Bracket, Mounting – Generator Foot
10	526-2050	3	**+ Washer, Flat (M4)	44	850-0114-55	8	Washer, Lock (M10)
11	870-2064-01	6	* Nut, Locking – Nylon (M4)	45	800-3017-41	4	Screw, Cap – Hex Head (M10 x 45)
12	526-2050	6	* Washer, Flat (M4)	46	232-3730-03	4	Spacer, Foot – Mounting
13	510-0165	1	* Bearing, Ball	47	526-0423	8	Washer, Flat
14	518-0122	1	* Ring, Retaining	48	805-0015	8	Bolt, Place (3/8–16 x 1)
15	304-0807	1	* Varistor	49	800-2088	4	Screw, Cap – Hex Head (M10 x 35mm)
16	860-2006	2	* Nut, Hex (M5)	50	800-2090	6	Screw, Cap – Hex Head (M10 x 35mm)
17	850-2005	2	* Washer, Lock – Spring (M5)	51	850-2010	12	Washer, Lock – Spring (M10)
18	526-2060	2	* Washer, Flat (M5)	52	526-0174	8	Washer, Flat (3/8)
19	509-0266-01	1	O-Ring	53	234-0981	2	Guard, Fan
20	231-0383	1	Adapter, Generator	54	821-6001-01	8	Screw, Self-Locking – Hex Washer Head (M5 x 10mm)
21	800-3017-20	6	Screw, Cap – Hex Head (M8 x 1.25 x 25)	55	526-0399-11	8	Washer, Flat
22	850-0114-54	6	Washer, Lock (M8)	56	232-3959-01	1	Disc, Drive
23	232-3441	6	Washer, End Bell	57	526-2100	3	Washer, Flat (M8)
24	508-0139		Seal, Edging – Bulk (Order by the foot – 3 Feet Required)	58	805-2021-06	8	Screw, Cap – Hex Head
25			Cover, Stator – Top				
	234-0936-01	1	130, 160mm Stack Length				
	234-0936-02	1	180, 240mm Stack Length				
26			Cover, Stator – Bottom				
	232-3819-01	1	130, 160mm Stack Length				
	232-3819-02	1	180, 240mm Stack Length				
27			Screw, Cap – Hex Head				
	800-3017-37	8	130, 160mm Stack Length (M10 x 1.5 x 25mm)				
	800-3017-37	10	180, 240mm Stack Length (M10 x 1.5 x 25mm)				

* –Parts Included in Generator Rotor Assemblies

–Parts Included in Exciter Rotor Assemblies

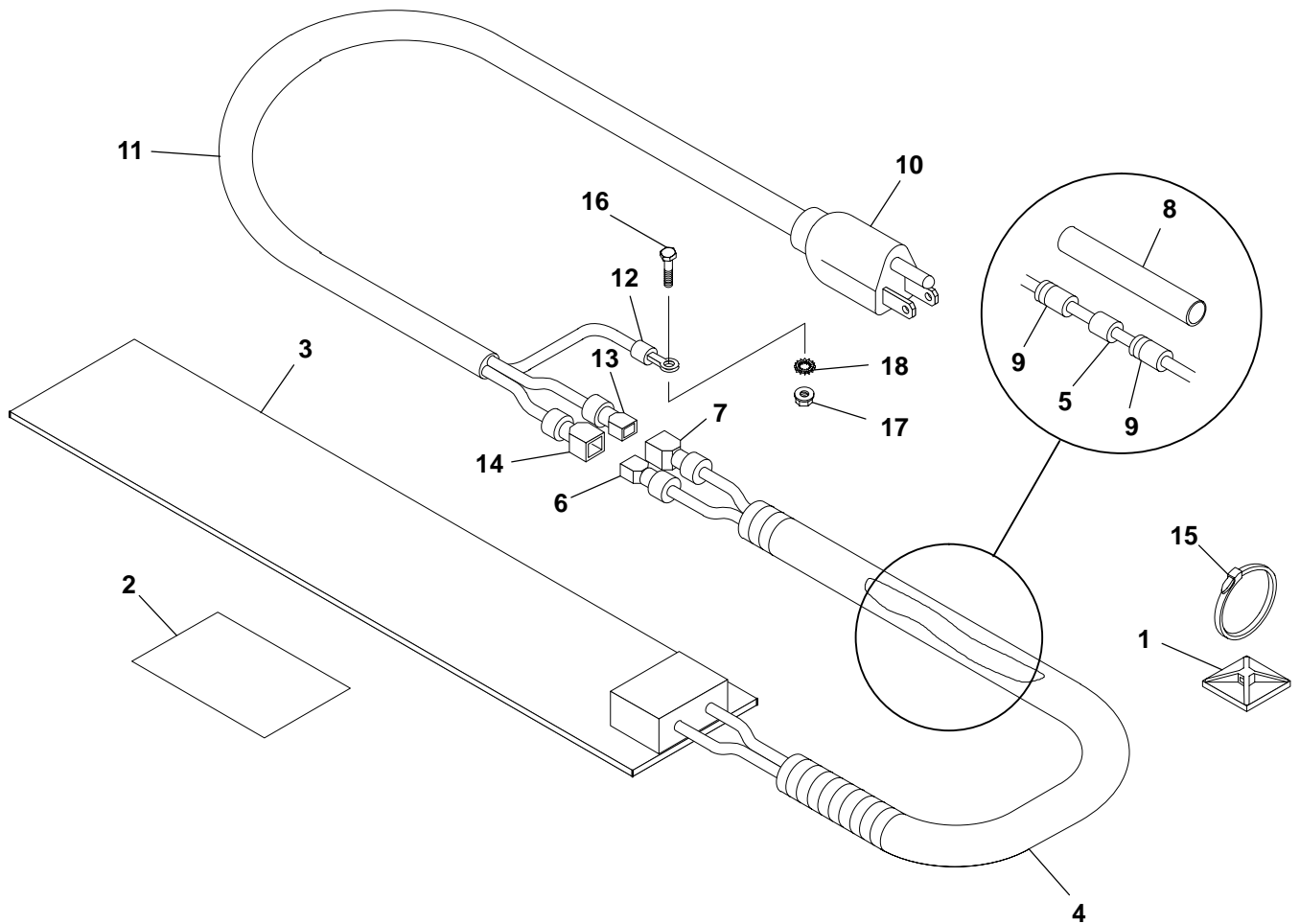
+ –Parts Included in Rectifier Assemblies

Generator Stator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator, Generator
			GGFD
	220-4447-06	1	130mm Stack Length, Winding Code 6
	220-4447-07	1	160mm Stack Length, Winding Code 6
	220-4447-11	1	130mm Stack Length, Winding Code 11
	220-4447-12	1	160mm Stack Length, Winding Code 11
	220-4447-16	1	130mm Stack Length, Winding Code 14
	220-4447-26	1	130mm Stack Length, Winding Code 17
			GGFE
	220-4447-08	1	180mm Stack Length, Winding Code 6
	220-4447-09	1	240mm Stack Length, Winding Code 6
	220-4447-11	1	130mm Stack Length, Winding Code 11
	220-4447-13	1	180mm Stack Length, Winding Code 11
	220-4447-14	1	240mm Stack Length, Winding Code 11
	220-4447-17	1	160mm Stack Length, Winding Code 14
	220-4447-18	1	180mm Stack Length, Winding Code 14
	220-4447-27	1	160mm Stack Length, Winding Code 17
	220-4447-28	1	180mm Stack Length, Winding Code 17

Control Heater

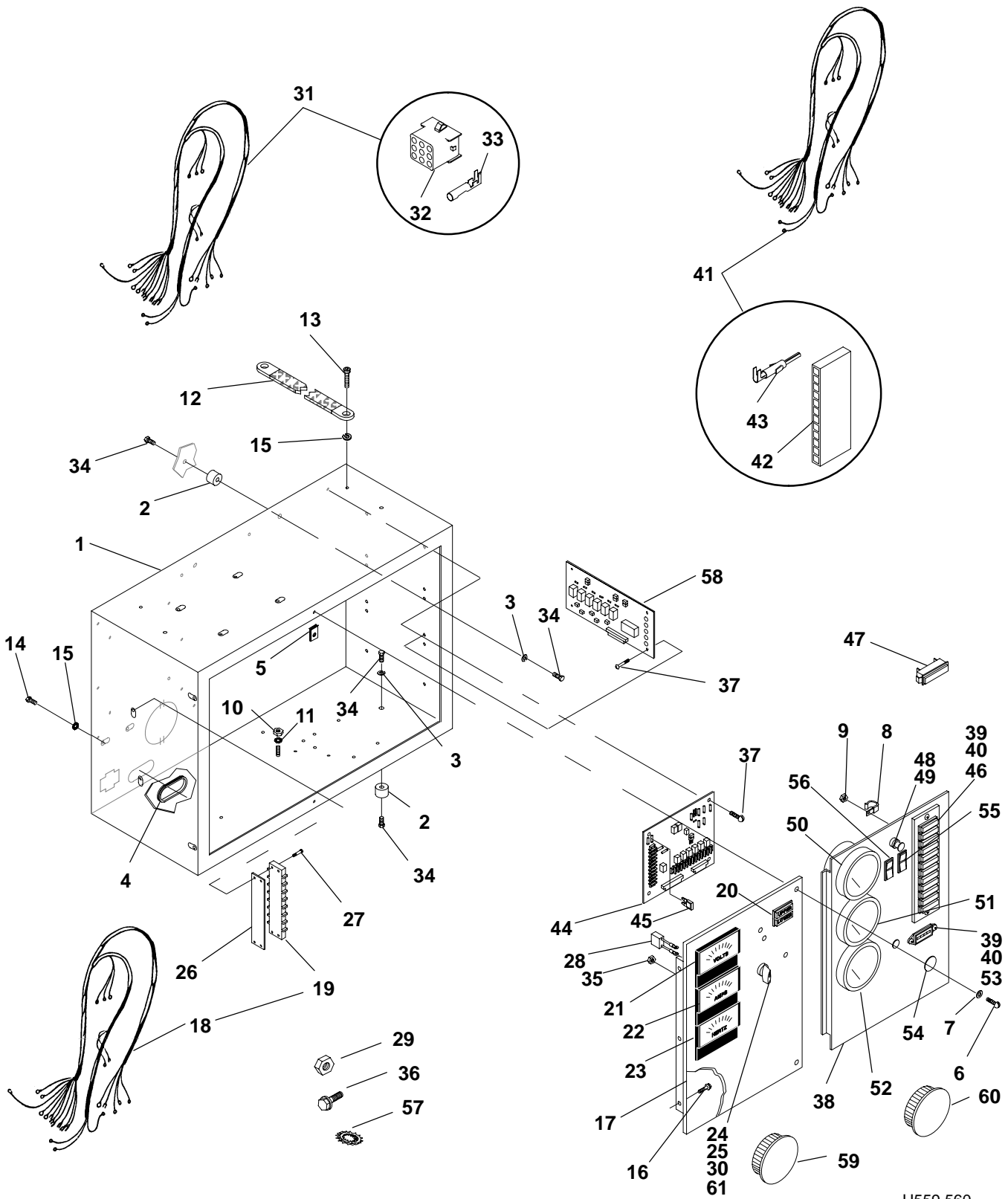


A362,A363

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-3338	2	Mount, Tie – Cable	11	335-0110	1	* Cable
2	098-6195	1	Label, Caution	12	332-2697	1	* Terminal, Ring
3			Heater, Control	13	332-1992	1	* Terminal, Receptical
	333-0550-01	1	120 Volt	14	332-2430	1	* Terminal, Tab
	333-0550-02	1	240 Volt	15	332-0942	3	Tie, Cable
4	898-1195-01	A/R	Sleeving, Convoluted	16	800-0024	1	Screw, Cap – Hex Head (5/16-18 x 3/4)
5	357-0114	1	Rectifier, Power	17	870-0257	1	Nut, Hex – Self Locking (5/16-18)
6	332-1992	1	Terminal, Receptical	18	856-0008	2	Washer, Lock EIT (5/16)
7	332-2430	1	Terminal, Tab				
8	898-0860	A/R	Tubing, Heat Shrink				
9	332-1789	2	Splice, Window (18 Gauge)				
10	335-0173	1	Cable, Heater – Control (Includes Parts Marked *)				

* – Parts Included in 335-0173 Heater Cable

Detector Control

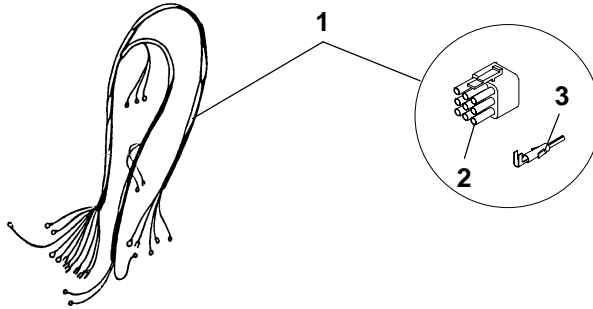


H559,560

Detector Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3030	1	Box, Control	34	800-0045	4	Screw, Cap – Hex Head (5/16-18 x 3/8")
2	402-0527	4	Isolator, Vibration	35	870-1220	6	Nut, Hex (#4-40)
3	850-0045	4	Washer, Lock – Spring (5/16)	36	821-5000-05	1	Screw, Self-Locking – Hex Washer Head (#10-32 x 1/2")
4	508-0051	1	Grommet (Fits 2" Hole)	37	815-0937	4	Screw, Pan Head (Cross Recessed (#6-32 x 1/2"))
5	406-0332	2	Receptacle, Fastener	38	301-9055-01	1	Door, Control – DC
6	406-0333	2	Stud, Fastener	39	815-0385	4	Screw, Machine – Round Head (#6-32 x 1/2")
7	406-0334	2	Washer, Stud Retainer	40	870-0183	4	Nut, Hex – W/ET (#6-32)
8	332-0052	2	Clip, Wire	41	338-3252	1	Harness, Wiring – DC Control Door (Includes Connector Housing and Contact Pins) (22 Wire, 32") (A11J4 to GND, M11,12,13,14, S11,12, DS11)
9	870-0131	1	Nut, Hex – W/ET (#10-32)	42	323-1308	1	Housing, Connector (J4)
10	871-0015	1	Nut, Hex (1/4-20)	43	323-1302	11	Pin, Contact
11	526-0018	1	Washer, Flat (1/4")	44	300-4296	1	Board Assembly, Printed Circuit – Engine Monitor (Includes Fuses) (A11)
12	337-0049	1	Strap, Ground	45			Fuse
13	821-0014	5	Screw, Self-Locking – Hex Head (5/16-18 x 1/2")		321-0307-03	2	5 Amp (Tan) (F4, F5)
14	815-0905-08	1	Screw, Pan Head – Cross Recessed (#10-32 x 7/8")		321-0307-06	1	15 Amp (Light Blue) (F3)
15	856-0008	2	Washer, Lock – EIT (5/16")		321-0307-07	2	20 Amp (Yellow) (F1, F2)
16	821-0004	3	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16")	46	322-0360-01	1	Light Assembly, Indicator (Includes Wiring Harness and Connector Housing) (A12)
17	301-9054-01	1	Door, Control – AC	47	322-0369-01	1	Light, Indicator – Replacement
18	338-2278	1	Harness, Wiring – AC Control Door (Includes Terminal Block) (19 Wire, 26") (TB21, GND to GND, M21,22,23, S21, DS21,22)	48	322-0361	1	Light, Panel (DS11)
19	332-0607	1	Block, Terminal (12 Place) (TB21)	49	322-0004	1	Bulb, Panel Light – Replacement
20	322-0363	1	Light, Indicator – Upper/Lower Scale (DS21,22)	50	193-0466	1	Gauge, Oil Pressure (M11)
21			Voltmeter, AC (M21)	51	193-0351	1	Gauge, Water Temperature (M12)
	302-1148	1	0-300/600	52	302-1641	1	Voltmeter (M13)
	302-1753	1	0-0750	53	302-2002	1	Meter, Hour (M14)
22			Ammeter (M22)	54	517-0131	1	Plug, Hole (Fits 7/8" Hole)
	302-1683	1	0-100/200	55	308-1010	1	Switch, Rocker – Lamp Test/Reset Panel Lamp (S11)
	302-1684	1	0-150/300	56	308-1011	1	Switch, Rocker – Run/Stop/Remote (S12)
	302-1685	1	0-200/400	57	853-0008	1	Washer, Lock – ET (#10)
23	302-1968	1	Meter, Frequency (M23)	58	300-5098	1	Board, Printed Circuit – Sensor Board (A27)
24	853-0008	1	Washer, Lock – ET (#10)	59	517-0302	1	Plug, Hole (Fits 2-1/4" Hole) (Quantity Used As Required)
25	308-1052	1	Switch, Rotary – Voltmeter/Ammeter (Includes Handle) (S21)	60	517-0301	1	Plug, Hole (Fits 2" Hole) (Quantity Used As Required)
26	332-2723	1	Strip, Marker	61	308-1082	1	Handle, Rotary Switch
27	815-0901-06	2	Screw, Cross Recessed – Thread Forming (#6-32 x 5/8")				
28	355-0189	1	Capacitor – Voltmeter (.1 Mfd., 500 WVDC) (C21)				
29	870-0183	2	Nut, Hex – W/ET (#6-32)				
30	815-0875-02	3	Screw, Machine – Round Head (M4 x 8mm)				
31	338-3429	1	Harness, Wiring – Terminal Block (9 Wire, 11") (Includes Connector Plug and Sockets) (P2 to TB21)				
32	323-1644-02	1	Plug, Connector (P2)				
33	323-1648	9	Socket, Contact				

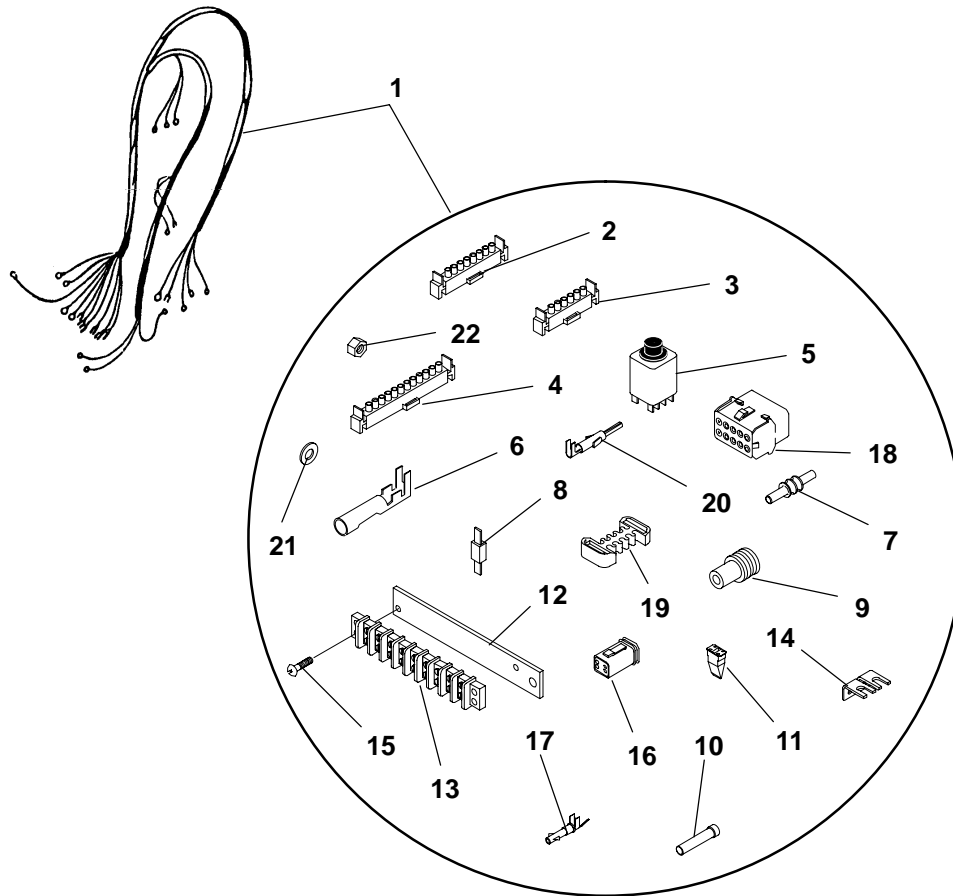
Wiring Harness AC Control



CP01,H559,560,562,R114,K001

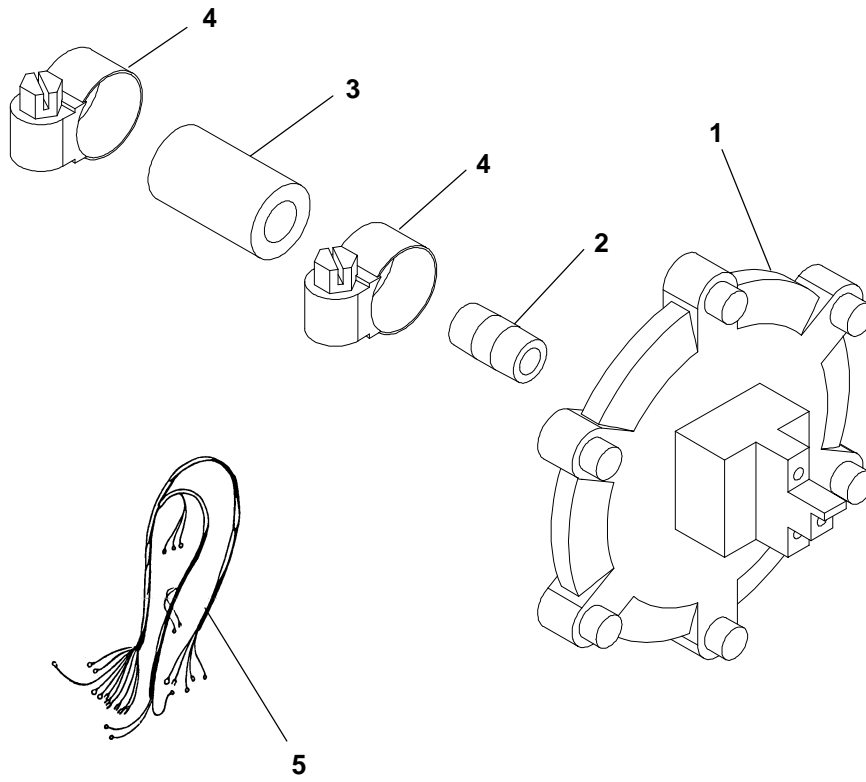
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – AC Control (Includes Connector Plug and Contact Pins)	2			Plug, Connector (9 Place)
	338–3405	1	Generators With Full Rated, 3 Phase, 60 Hertz Output at 347/600 Volts (16 Wire, 41") (Includes Parts Marked *) (J2 to 5,6,7,8, GND, P1, CT21,22,23)	323–1644–01	2	*	Generators With Full Rated, 3 Phase, 60 Hertz Output at 347/600 Volts (P1, J2)
				323–1644–01	1	#	All Other Generators (J2) Pin, Contact
				323–1647	18	*	Generators With Full Rated, 3 Phase, 60 Hertz Output at 347/600 Volts
	338–3403	1	All Other Generators (12 Wire, 38") (Includes Parts Marked #) (J2 to 4,5,6,7,8, GND, CT21,22,23)	323–1647	9	#	All Other Generators
				* – Parts Used In 338–3405 AC Control Wiring Harness			
				# – Parts Used In 338–3403 AC Control Wiring Harness			

Engine Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3925		Harness, Engine (Includes Parts Listed Below)	12	319-2006-01	1	Bracket, Terminal
2	323-1306	1	Housing, Connector – 8 Place (J1)	13	332-0604	1	Block, Terminal
3	323-1304	1	Housing, Connector – 6 Place (J2)	14	332-1043	4	Jumper
4	323-1374-12	1	Housing, Connector – 12 Place (J3)	15	815-0538	2	Screw, Machine – Round Head – Cross Recessed – W/IT (#8-32 x .50)
5	307-2817-01	2	Relay	16	323-1546	1	Plug (4 Pin)
6	323-1200	12	Socket, Contact	17	323-1302	11	Pin, Contact
7	323-1712	A/R	Plug, Cavity (P8)	18	323-1710	1	Connector, Receptacle – 10 Pin (P8)
8	357-0030	1	Rectifier, Silicon	19	323-1719	1	Housing, Lock (P8)
9	323-1708	6	Seal, Cable (P8)	20	323-1707	10	Pin, Contact (P8)
10	323-1591	1	Plug, Seal	21	526-2080	1	Washer, Flat (M6)
11	323-1548	1	Wedge, Plug (4 Pin)	22	862-0026-54	1	Nut, Hex (M6)

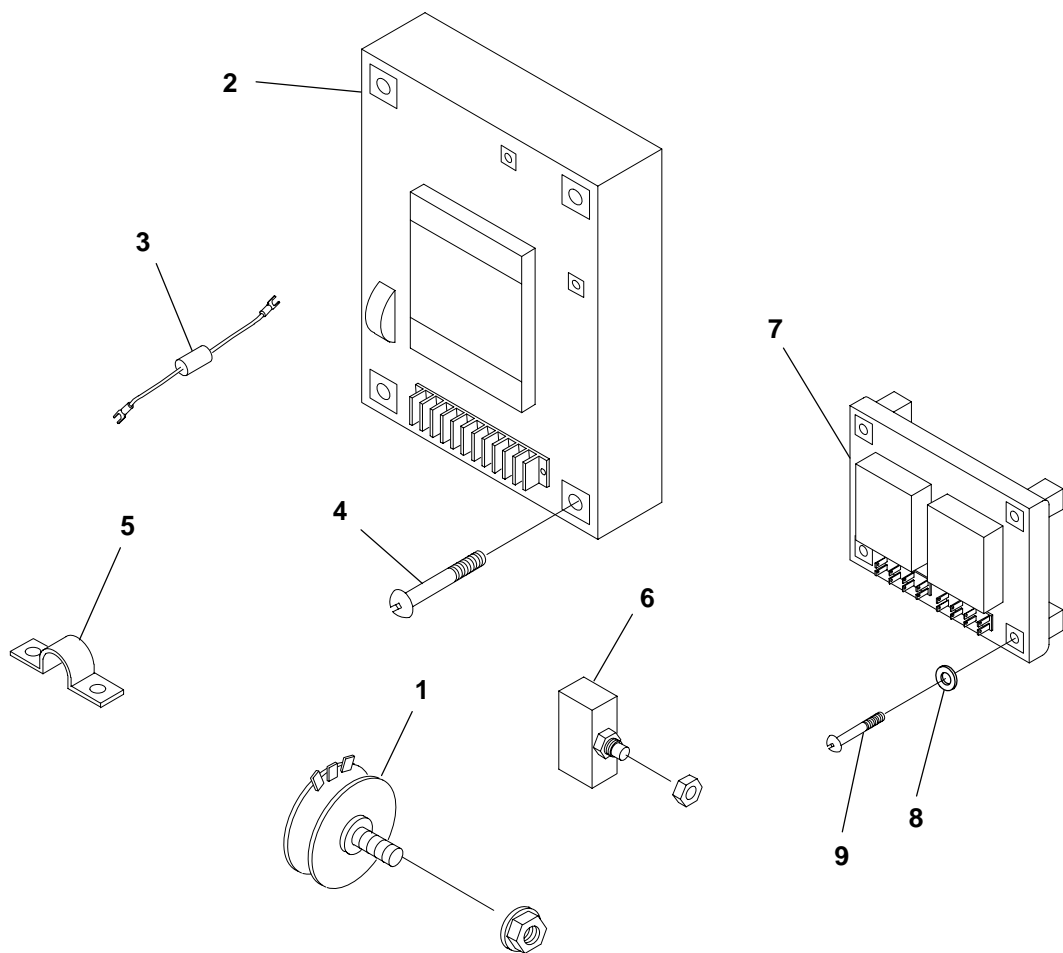
Vacuum Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1099	1	Switch, Vacuum
2	505-0098	1	Nipple, Pipe (1/8 x .75)
3	503-2004	—	Hose – Bulk (3/8 ID) (Order by the Foot – 1 Foot Required)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	503-0446	2	Clamp, Hose
5	338-3667	1	Harness, Wiring – Vacuum Switch

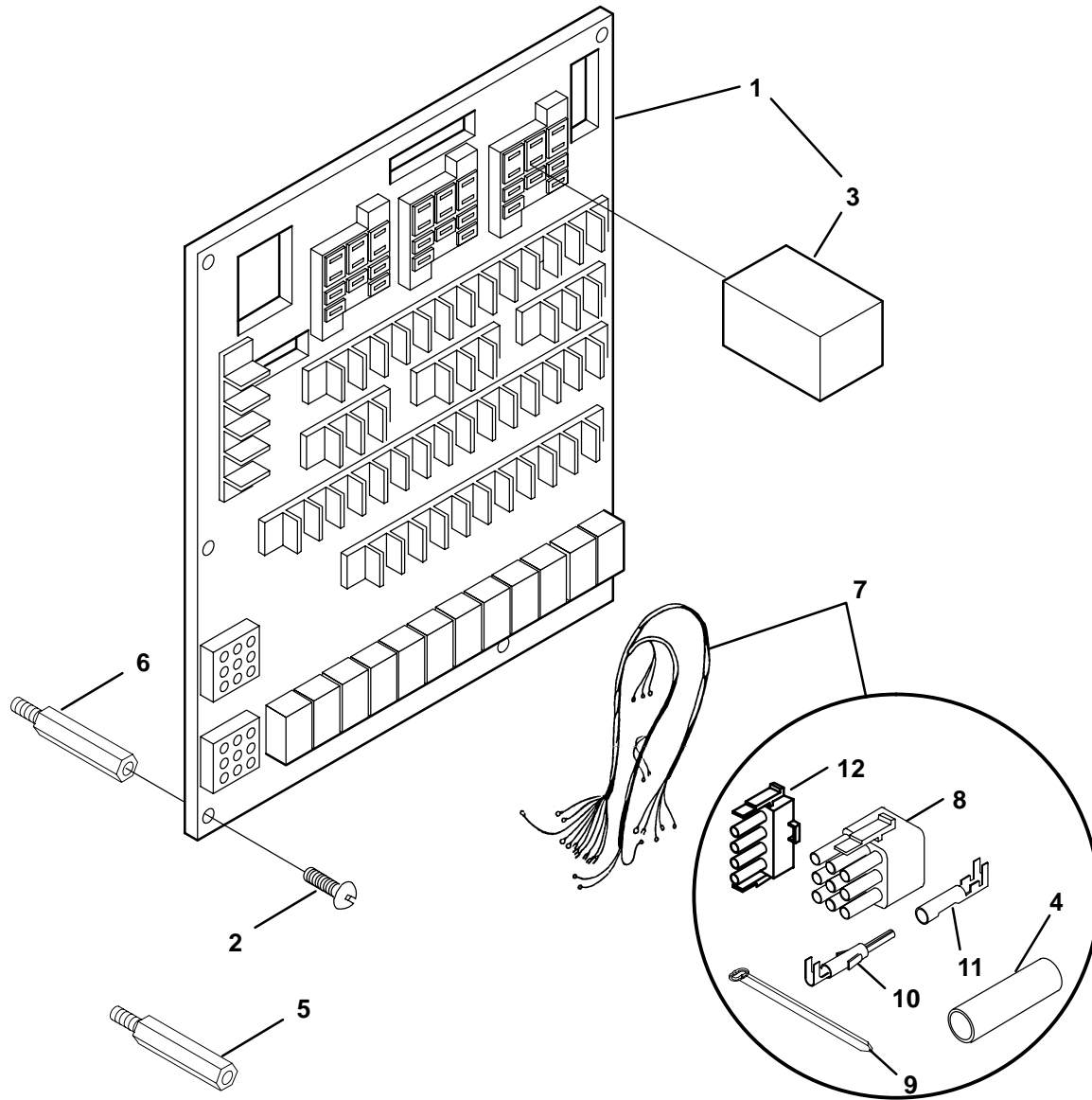
Voltage Regulator



B184,240

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	303-0261	1	Potentiometer SX460 Regulator	7	305-0868	1	Board, PC – Isolation Transformer (MX321 Regulator Only – Up to 480 Volts)
	303-0285-01	1	MX321 Regulator				
2	305-0982	1	Regulator, Voltage SX460 Regulator	8	526-0003	4	Washer (#8) (MX321 Regulator Only – Up to 480 Volts)
	305-0823	1	MX321 Regulator				
3	350-1222	1	Resistor	9	815-0901-06	4	Screw, Pan Head – Cross Recessed – Thread Forming (#6-32 x 5/8) (MX321 Regulator Only – Up to 480 Volts)
4	815-0905-08	4	Screw, Cross Recessed (#10-32 x 7/8) SX460				
	815-0905-08	6	MX321				
5	332-1043	1	Jumper				
6	320-1688-01	1	Breaker, Circuit				

Alarm Relay Board

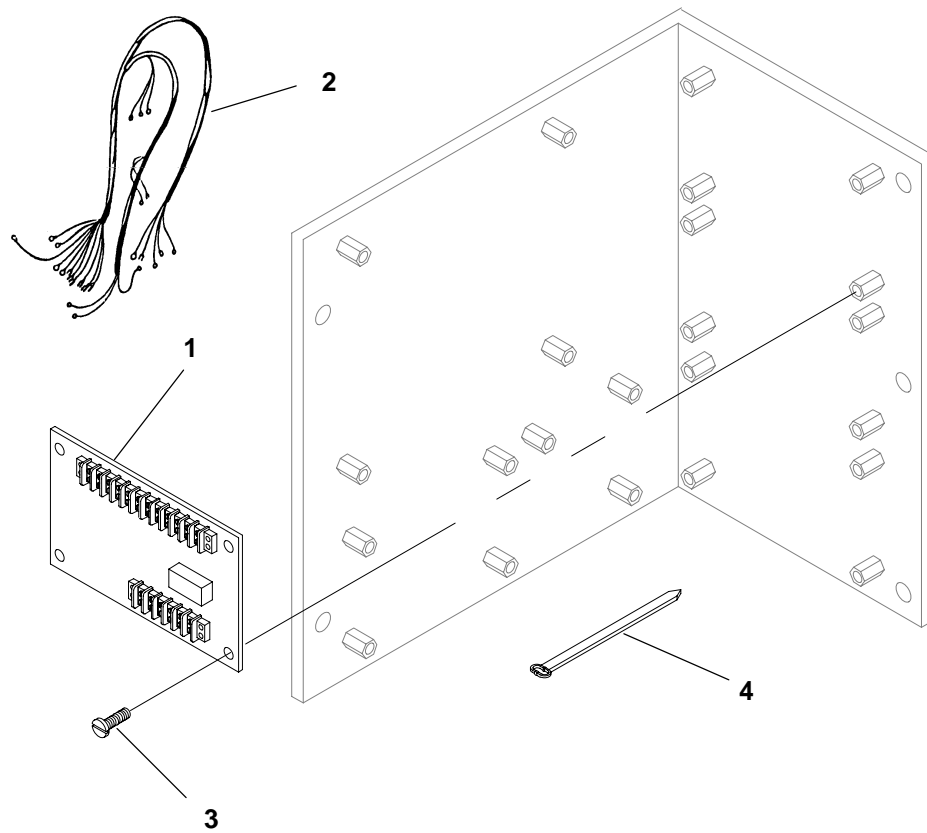


KJ03

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-4111-03	1	Board, PC - Alarm Relay	7	338-2875	1	Harness, Alarm Relay Board (Includes parts marked *)
2	815-0937	6	Screw, Machine - Pan Head - Cross Recessed (#6-32 x .50)	8	323-1291	2	* Plug, 9 Pin
3	307-1058	3	Relay (12 VDC) (K1, K2, K3)	9	332-1445	A/R	* Tie, Cable
4	898-0025	5	* Sleeving (1/2")	10	323-1199	9	* Pin, Contact
5	870-0517-02	2	Standoff - Alarm Board (1.31 lg.)	11	323-1200	12	* Socket, Contact
6	870-0517-01	4	Standoff - Alarm Board (1.25 lg.)	12	323-1292	1	* Plug, 4 Pin

* = Parts includes in 338-2875 Harness Assembly

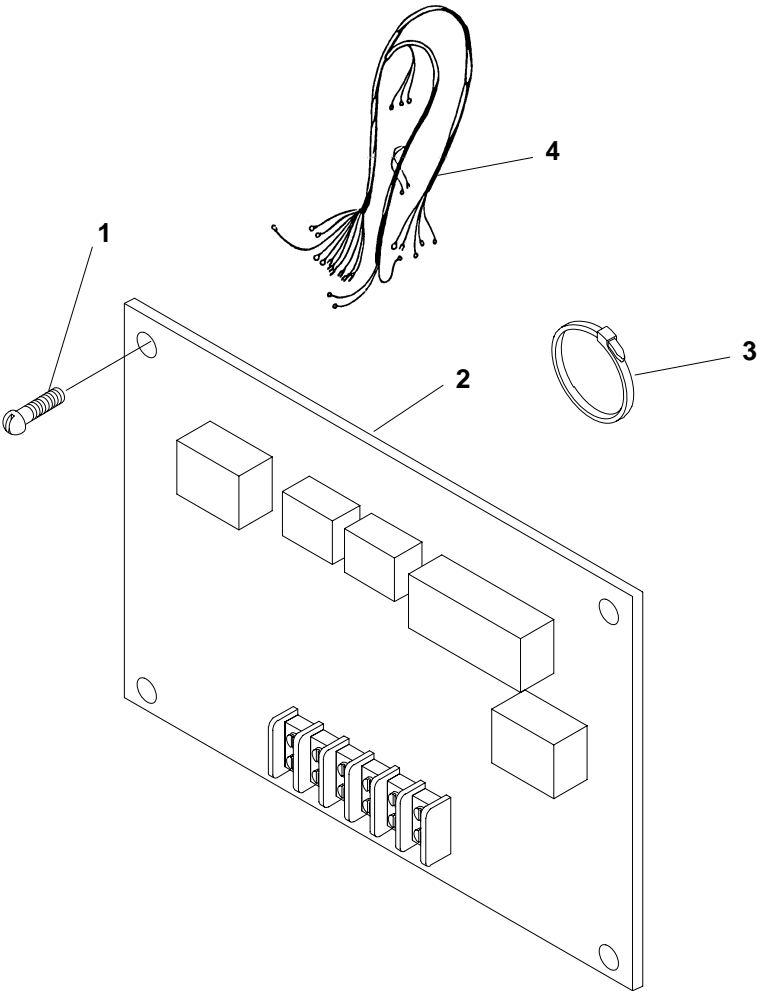
Common Alarm



H560

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-4218-01	1	Board, PC – Diode	4	332-1445	A/R	Tie, Cable
2	338-3033	1	Harness, Common Alarm				
3	812-0063	4	Screw, Machine – Round Head (#6-32 x 1/2)				

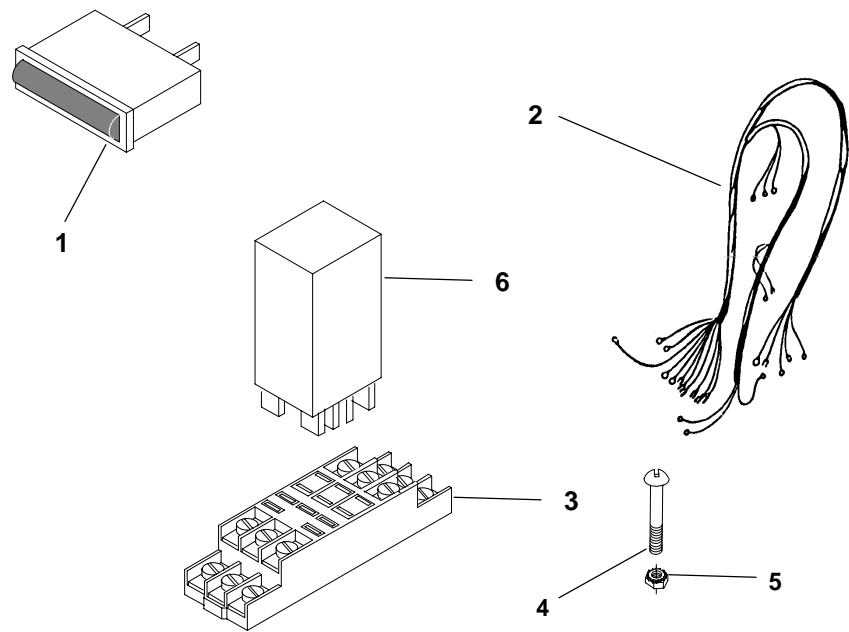
Time Delay Start/Stop



KL39

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0937	4	Screw, Machine – Pan Head – Cross Recessed (#6-32 x 1/2)	3	332-1445	3	Tie, Cable
2	300-2897	1	PCB, Time Delay Start/Stop	4	338-1904	1	Harness, Time Delay Start/Stop

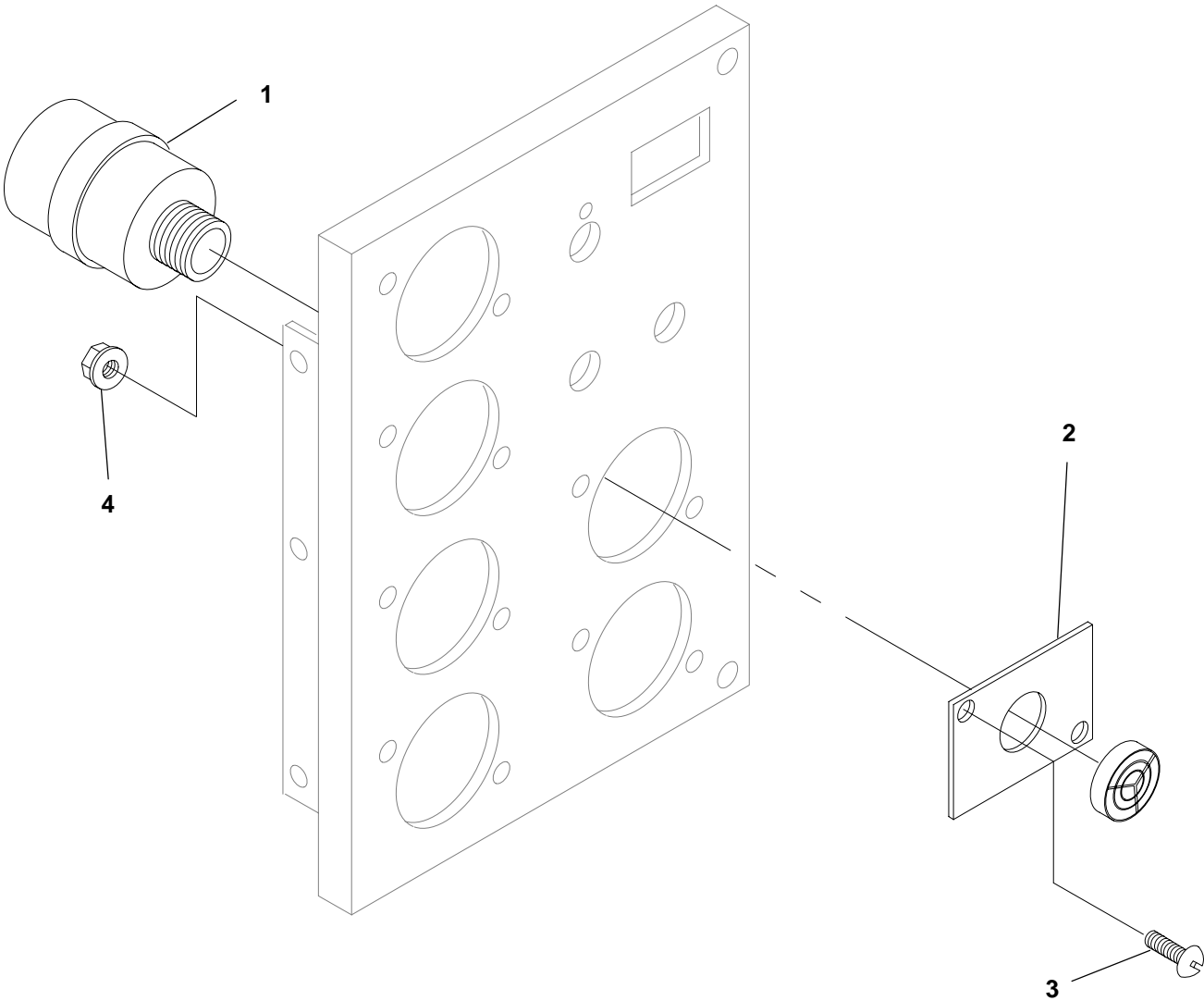
Low Battery Voltage



H560,H543

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	322-0431-08	1	Lens, Indicator	4	812-0084	2	Screw, Machine – Round Head (#8-32 x 1)
2	338-3034	1	Harness, Low Battery Voltage	5	870-1221	2	Nut, Hex W/ET (#8-32)
3	323-1410-03	1	Base, Relay	6	305-0901	1	Sensor, Low Battery

Audible Alarm

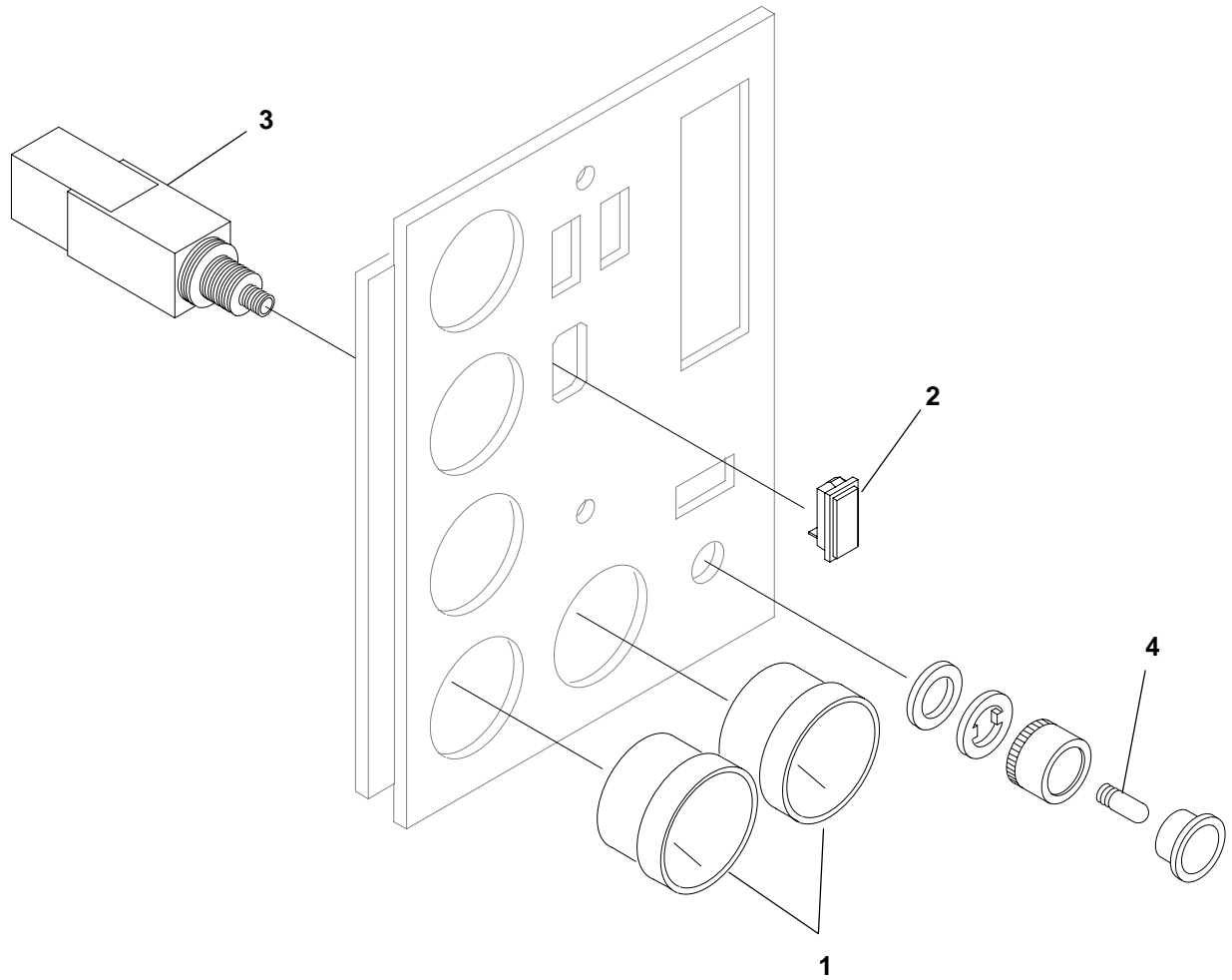


KL39

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0133	1	Signal, Audible
2	319-0898	1	Plate, Audible Signal
3	815-0385	2	Screw, Machine – Round Head (#6-32 x 1/2)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	870-0183	2	Nut, Hex W/ET (#6-32)

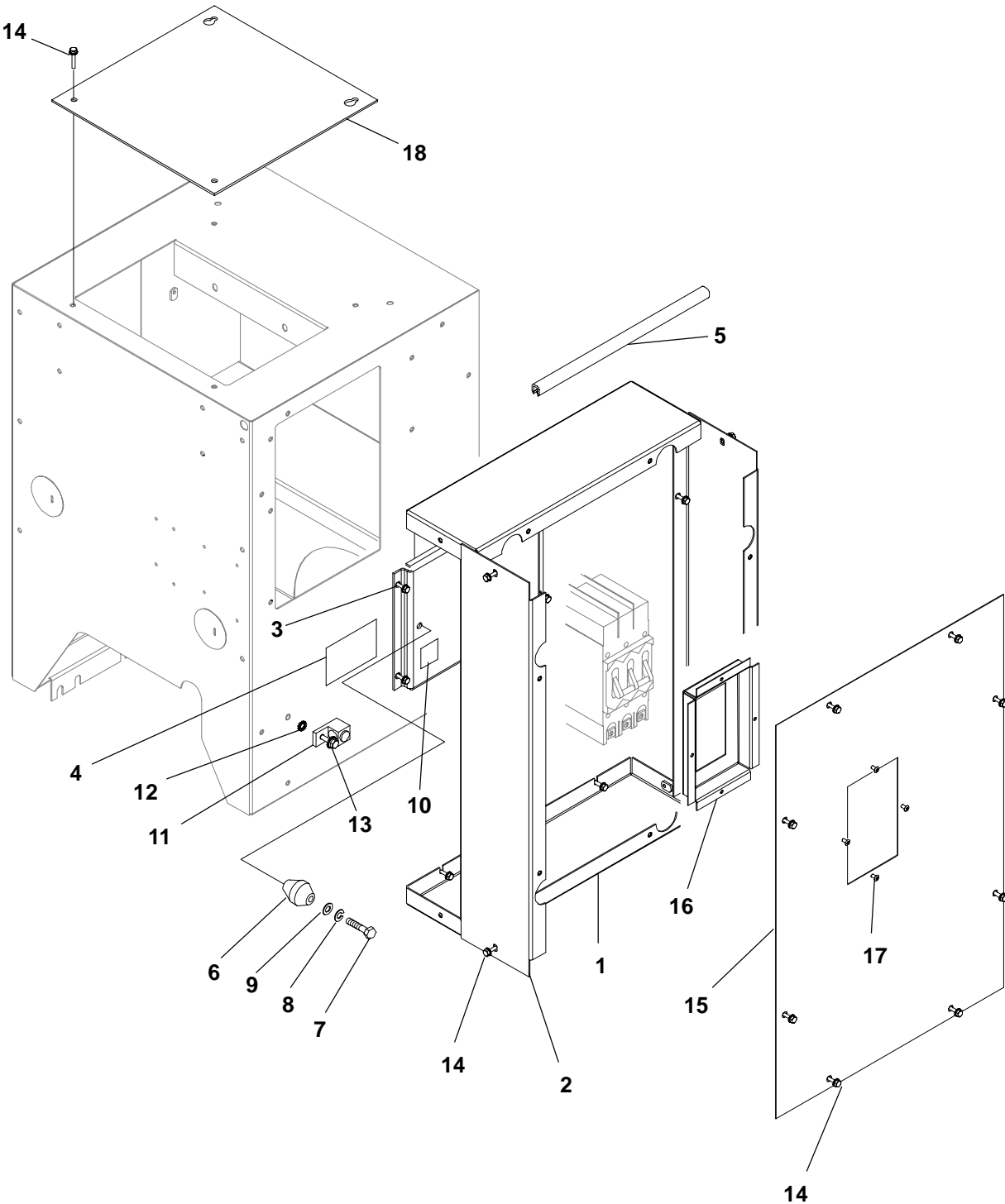
Emergency Stop Switch



KL39

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1723	2	Ammeter – Blank Scale	4	322-0487	1	Bulb, Replacement
2	301-6257	1	Switch – Blank				
3	308-1095	1	Switch, Pushbutton – Emergency Stop (Includes Bulb)				

Circuit Breaker Box



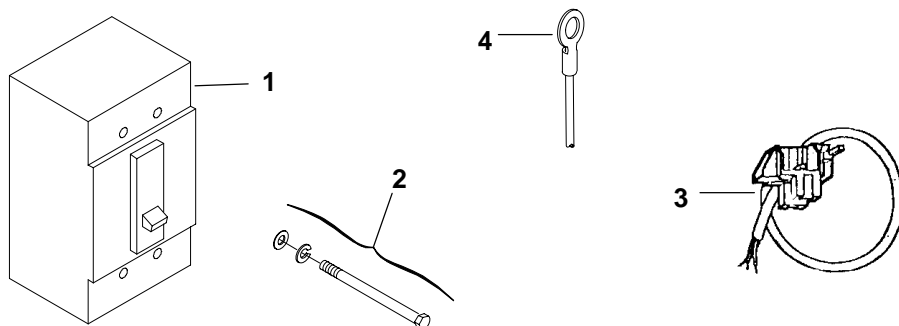
K028

Circuit Breaker Box

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3072	2	Panel, End – CB Box	16			Cutout, CB Box
2	319-2978	2	Panel, Side – CB Box				UL
3	319-3149	1	Bracket, Mounting – CB	319-3150	1		600 Volt, 300–630 Amp, 3 Pole
4	098-2304	1	Label, Warning	319-3240	1		240 Volt, 300–400 Amp, 2/3 Pole
5	508-0239	–	Edging – Bulk (Order By The Foot – 2 Feet Required)	319-3242	1		240 Volt, 100–250 Amp, 2/3 Pole
6	332-2744-07	1	*Standoff, Insulator	319-3242	1		600 Volt, 50–250 Amp, 3 Pole
7	800-0048	2	*Screw, Cap – Hex Head (3/8–16 x .75)				IEC
8	850-0050	2	*Washer, Lock (3/8)	319-3150	1		690 Volt, 300–630 Amp, 3/4 Pole
9	526-0029	1	*Washer, Flat (3/8)	319-3242	1		690 Volt, 70–250 Amp, 3/4 Pole
10	098-5854-04	1	*Label, Bus – Warning	17	818-0231-02	4	Rivet, Pop
11	332-1473	1	Lug, Solderless	18	319-2996	1	Cover, Housing – Control
12	856-0008	1	Washer, Lock – EIT (5/16)				
13	821-6003-02	1	Screw, SEMS – Hex Head (M8 x 1.25 x 20)				
14	821-6002-03	24	Screw, SEMS – Hex Head (M6 x 1 x 16)				
15	319-3151	1	Cover, CB Box				

* = UL Rated Breakers only.

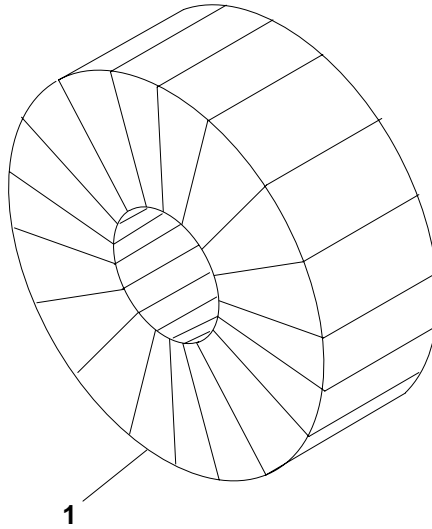
Circuit Breaker



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit	2			Package, Hardware – Circuit Breaker Mounting (Includes Screws, Nuts and Lock Washers)
			2 Pole (UL)				
	320-1961-07	1	100 Amp (240 Volts)		320-1986-08	1	Used With 320-1959-XX Circuit Breakers
	320-1961-06	1	125 Amp (240 Volts)		320-1986-07	1	Used With 320-1960-XX Circuit Breakers (Screws Only)
	320-1961-05	1	150 Amp (240 Volts)		320-1986-05	1	Used With 320-1962-XX Circuit Breakers (Screws Only)
	320-1961-04	1	175 Amp (240 Volts)				
	320-1961-03	1	200 Amp (240 Volts)				
	320-1961-02	1	225 Amp (240 Volts)				
	320-1961-01	1	250 Amp (240 Volts)				
	320-1962-03	1	* 300 Amp (240 Volts)				
			3 Pole (UL)	3			Accessories, Circuit Breaker: The following are used on 320-1959-XX and 320-1960-XX Circuit Breakers
	320-1961-14	1	100 Amp (240 Volts)		320-1981-02	1	Trip, Shunt (12V)
	320-1961-13	1	125 Amp (240 Volts)		320-1981-01	2	Switch – Used as an Auxiliary Contact or Trip Alarm
	320-1961-12	1	150 Amp (240 Volts)				
	320-1961-11	1	175 Amp (240 Volts)				
	320-1961-10	1	200 Amp (240 Volts)	4			Lead (Quantity Used As Required)
	320-1961-09	1	225 Amp (240 Volts)		226-0893	1	3/8" Ring Terminal End to 1" Stripped End – No Markings (33") (#1/0 Wire)
			3 Pole (UL & IEC)		226-3505-01	1	3/8" Ring Terminal End to 1" Stripped End – No Markings (30") (#4 Wire)
	320-1959-22	1	* 15 Amp (600/750 Volts)		226-3505-03	1	3/8" Ring Terminal End to 3/8" Ring Terminal End – Marked "LO" (30") (#4 Wire)
	320-1959-21	1	* 20 Amp (600/750 Volts)		226-3505-04	1	3/8" Ring Terminal End to 3/8" Ring Terminal End – Marked "LO" (30") (#1/0 Wire)
	320-1959-20	1	* 30 Amp (600/750 Volts)				
	320-1959-19	1	* 40 Amp (600/750 Volts)				
	320-1959-18	1	* 50 Amp (600/750 Volts)				
	320-1959-17	1	* 60 Amp (600/750 Volts)				
	320-1959-10	1	* 70 Amp (600/750 Volts)				
	320-1959-09	1	* 80 Amp (600/750 Volts)				
	320-1959-08	1	* 90 Amp (600/750 Volts)				
	320-1959-07	1	* 100 Amp (600/750 Volts)				
	320-1959-06	1	* 125 Amp (600/750 Volts)				
	320-1959-05	1	* 150 Amp (600/750 Volts)				
	320-1959-04	1	* 175 Amp (600/750 Volts)				
	320-1959-03	1	* 200 Amp (600/750 Volts)				
	320-1959-02	1	* 225 Amp (600/750 Volts)				
	320-1959-01	1	* 250 Amp (600/750 Volts)				
	320-1960-06	1	* 300 Amp (600/750 Volts)				
			4 Pole (IEC)				
	320-1959-16	1	* 80 Amp (750 Volts)				
	320-1959-15	1	* 100 Amp (750 Volts)				
	320-1959-14	1	* 125 Amp (750 Volts)				
	320-1959-13	1	* 160 Amp (750 Volts)				
	320-1959-12	1	* 200 Amp (750 Volts)				
	320-1959-11	1	* 250 Amp (750 Volts)				
	320-1960-10	1	* 320 Amp (750 Volts)				

* – Includes Mounting Hardware

Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT21, CT22, CT23) Less than 300 Volts				Greater than 300 Volts
	302-1845-03	3	150/5 Primary Ratio		302-1845-03	3	75/5 Primary Ratio
	302-1845-04	3	200/5 Primary Ratio		302-1845-04	3	100/5 Primary Ratio
	302-1845-05	3	300/5 Primary Ratio		302-1845-05	3	150/5 Primary Ratio

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Onan Corporation
1400 73rd Avenue N.E.
Minneapolis, MN 55432
612-574-5000
Telex: 275477
Fax: 612-574-8087

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