



Parts Manual

Generator Set

with PowerCommand[®] 2100 Control

GGHE (Spec E-M)

GGHF (Spec E-M)

MODEL IDENTIFICATION

This catalog covers models produced under the Cummins®/Onan® and Cummins Power Generation brand names.

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Cummins Power Generation 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 Cummins Power Generation 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 Cummins Power Generation 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 Manual applies to Cummins Power Generation Generator Models GGHE and GGHF 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 Cummins Power Generation 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

Cummins Power Generation Generator Model	Ford Engine Model	Base Engine Number
GGHE	WSG1068I-6005-A	4P-680-AA
GGHF	WSG1068I-6005-A	4P-680-AA

Note: Ford will replace your engine with the latest engine version. After replacement, drive belt and pulleys will require Spec components.

Generator Set Data Table

Model/ Specifica- tion	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
55GGHF	55,000	#	50	4,6,12	1 or 3	12 VDC
60GGHE	60,000	#	60	4,6,12	1 or 3	12 VDC
60GGHF	60,000	#	50	4,6,12	1 or 3	12 VDC
70GGHF	70,000	#	60	4,6,12	1 or 3	12 VDC
75GGHF	75,000	#	60	4,6,12	1 or 3	12 VDC

– Broad range reconnectible

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Abbreviations

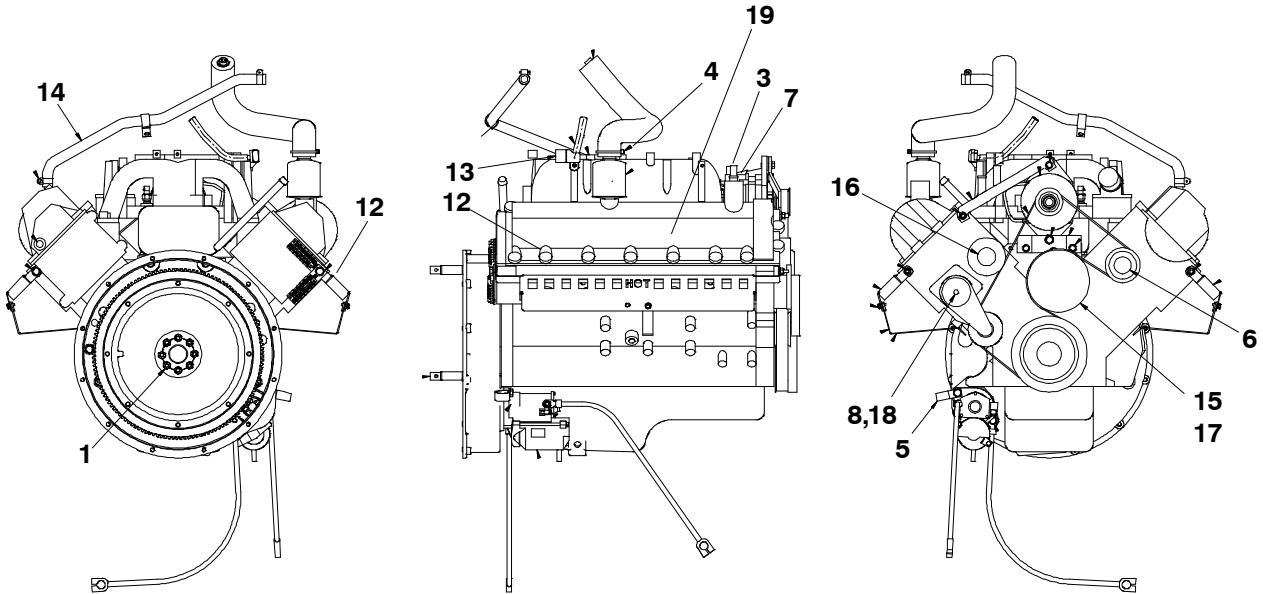
Some of the following abbreviations may be used throughout this Parts Catalog:

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

Paint and Thread Sealant

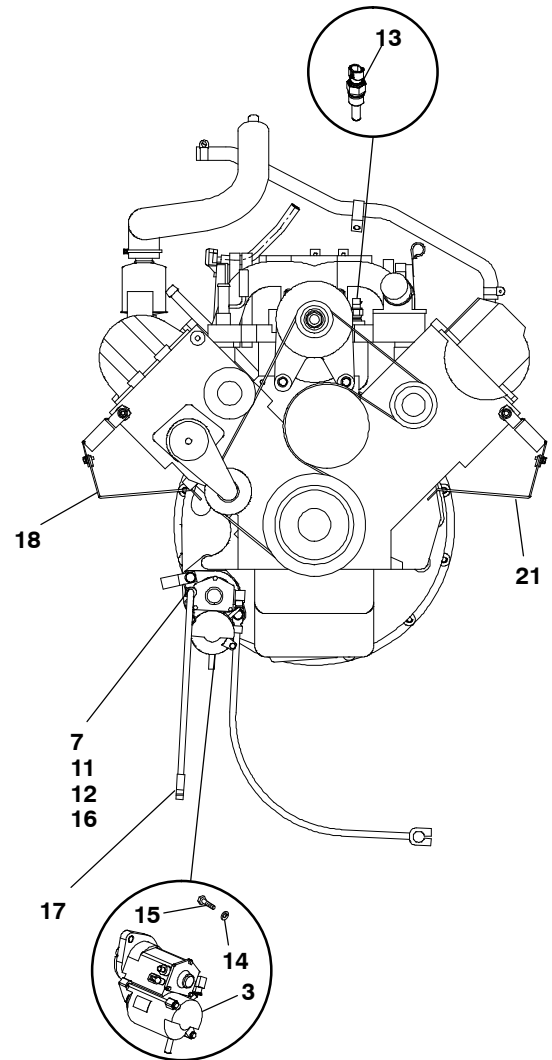
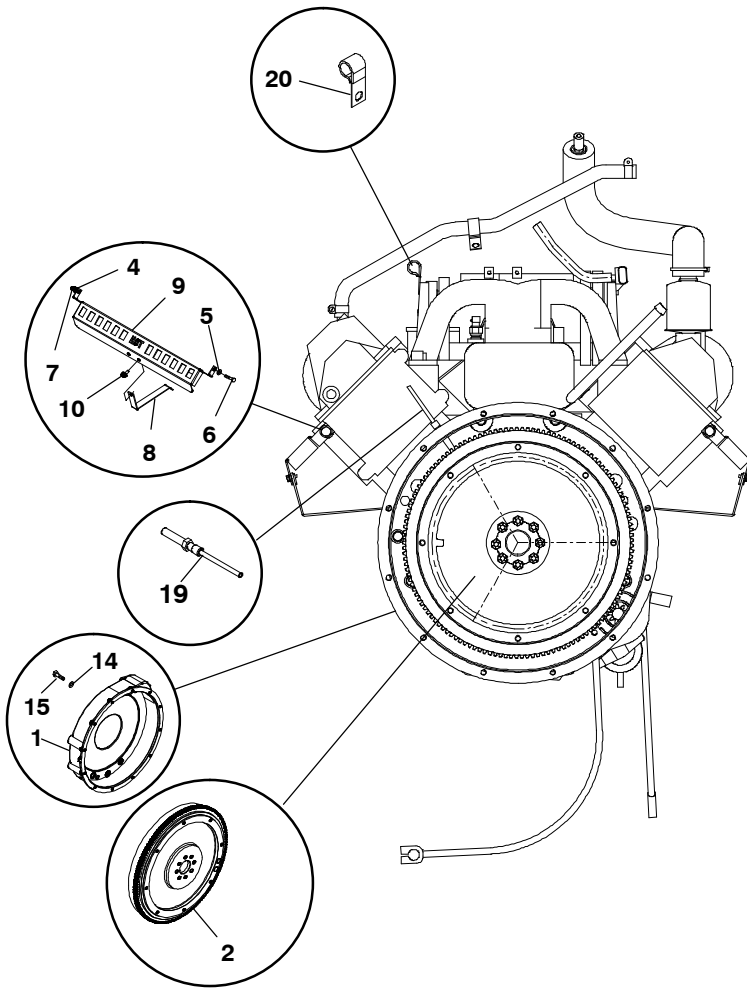
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Onan Green Enamel (Non-Metallic)				
	525-0305	-	12 oz. Pressurized Spray Can				
	525-0306	-	Quart Can				
	525-0304	-	Gallon Can				
	518-0601	-	Sealant, Pipe Thread				

Engine Installation



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-1974	8	Bolt, Flywheel (M10 x 1.5 x 26.5)	10	132-0412	1	Cap-Heater Tube (3/4) (Not Shown)
2	123-2147	1	Tube-Oil Level (Not Shown)	11	155-3719	1	Cover-Exhaust (Not Shown)
3	123-2185	1	Cap-Oil Fill	12	167-1639	10	Plug, Spark
4	123-2247	2	Valve-PCV (Low Flow)	13	193-0551-01	1	Sensor-Map (Ignition)
5	130-5256	3	Screw-Tensioner	14	503-2296-01	1	Hose, Breather
6	130-5257	1	Screw-Idler	15	512-0211	1	Pulley-Water Pump
7	130-5258	1	Thermostat (85° C) (Must Purchase F1VY-8255-A O-ring seal from Ford)	16	512-0250	1	Pulley (Smooth Idler)
8	130-5386	1	Screw-Idler	17	512-0251	1	Pulley (6 Groove Idler)
9	132-0331	1	Cap-Heater Tube (Not Shown)	18	512-0252	1	Tensioner, Belt
				19	517-0349	10	Plug, Injector
				20	520-1026	20	Stud-EXH Manifold

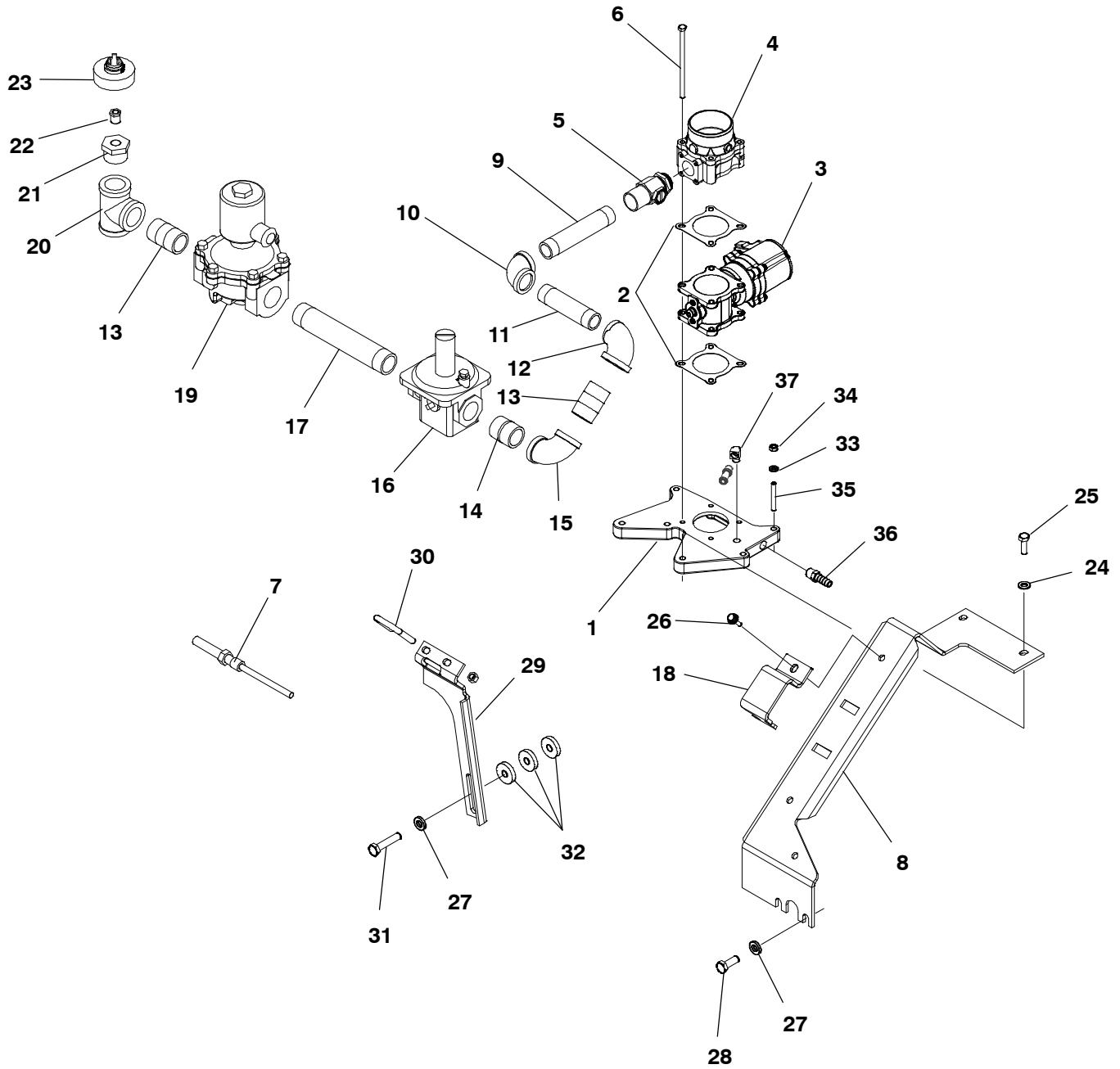
Engine Accessories



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	231-0394-02	1	Adapter, Generator	12	416-1084	1	Boot, Starter (Red)
2	104-1971	1	Flywheel and Ring Gear	13	193-0529-01	1	Sensor, Temperature
3	191-2213	1	Starter (1.4 Kw)	14	850-2010	7	Washer, Lock - Split (M10)
4	526-2100	2	Washer, Flat (M8)	15	800-2088	7	Screw, Cap - Hex Head (M10 x 1.5 x 35)
5	526-2120	2	Washer, Flat (M10)	16	416-0549	2	Cable, Battery
6	718-1054	2	Screw, Cap - Hex Head (M10 x 1.5 x 35)	17	416-1019	1	Boot, Battery (Red)
7	750-1006	2	Nut, Hex (M8 x 1.25)	18	800-2097	1	Screw, Cap - Hex Head (M10 x 1.5 x 80)
8	154-3107-02	1	Strap, Guard - Manifold	19	150-2651	1	Pick-Up, Magnetic
9	154-3100-02	2	Guard, Manifold	20	332-2921	1	Clamp, J
10	821-6002-02	3	Screw, Hex Head (M6 x 1.0 x 12)	21	154-3272-02	1	Guard, Manifold
11	850-2008	2	Washer, Lock - Split (M8)				

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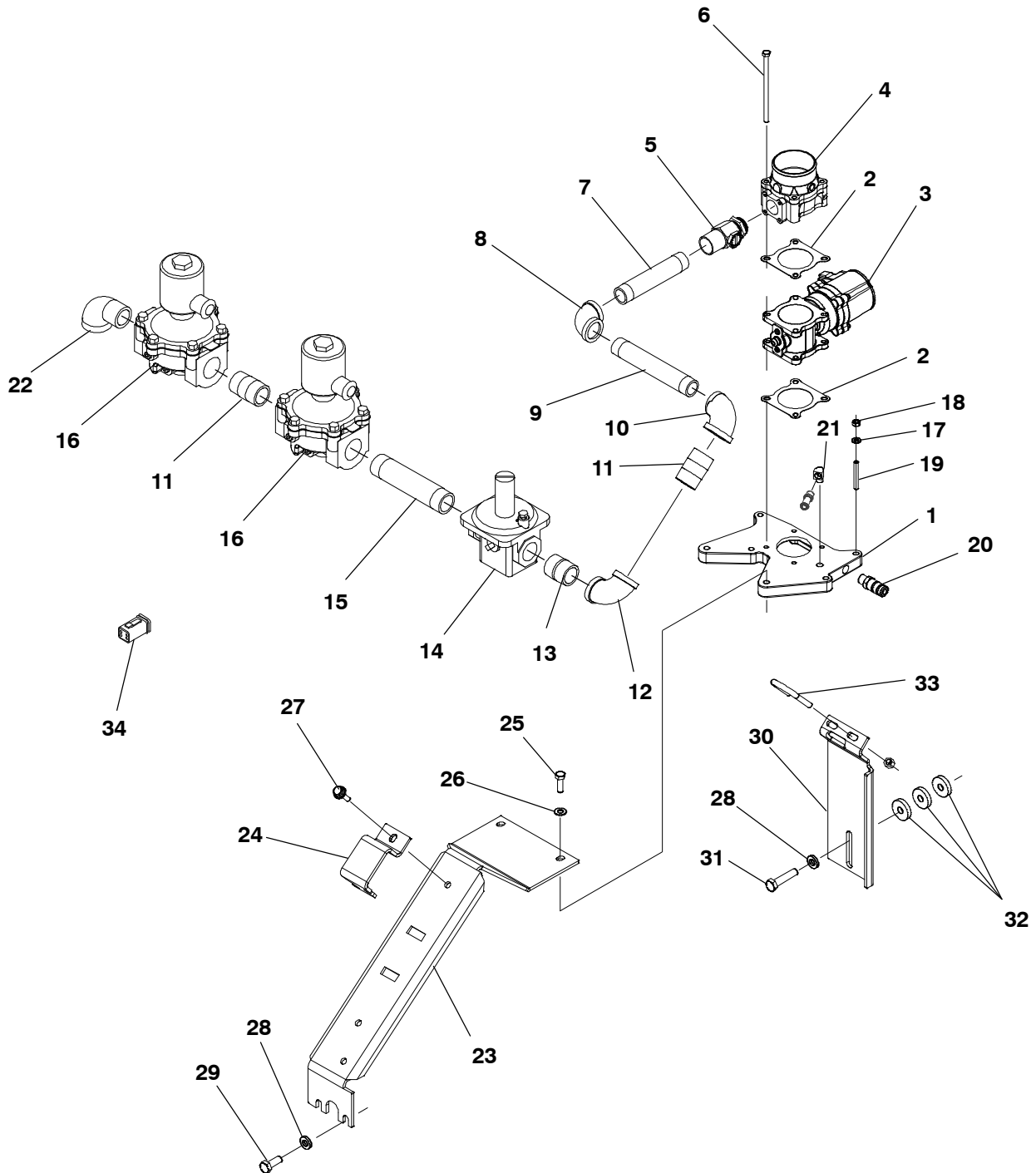
Fuel System Natural Gas Spec E



**Fuel System
Natural Gas
Spec E**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	21	505-0802	1	Bushing, Reducer (1 x 1/4) – With Low Pressure Switch
2	145-0813	2	Gasket, Throttle Body	22	505-0007	1	Bushing, Reducer (1/4 x 1/8) – With Low Pressure Switch
3	150-2808	1	Actuator, Rotary (50mm)	23	309-0669-01	1	Switch, Low Pressure
4	148-1200-02	1	Mixer, ITB	24	526-2100	2	Washer, Flat (M8)
5	504-0210	1	Valve, Fuel	25	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)
6	815-1536	4	Screw, Cap – Socket Head (M6 x 1.0 x 110)	26	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)
7	150-2651	1	Pickup, Magnetic	27	526-0174	3	Washer, Flat
8	148-1164-02	1	Bracket, Fuel System – Mounting	28	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
9	505-0341	1	Nipple, Pipe (3/4 x 5.00)	29	148-1247-02	1	Bracket, Fuel System
10	505-0132	1	Elbow, Pipe	30	155-1256	1	Clamp, Muffler
11	505-0337	1	Nipple, Pipe (3/4 x 4.00)	31	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
12	505-0356	1	Elbow (90°)	32	526-0077	3	Washer, Flat (M10)
13	505-0107	1	Nipple, Pipe (1 x 2.00) Without Low Pressure Switch	33	526-2080	4	Washer, Flat (M6)
	505-0107	2	With Low Pressure Switch	34	862-0026-54	4	Nut, Hex (M6)
14	505-0004	1	Pipe, Nipple (1 x 1.50)	35	520-1024	4	Stud (M6)
15	505-0041	1	Elbow, Pipe	36	502-0613	1	Connector, Hose
16	148-1202	1	Regulator	37	502-0020-01	1	Elbow, Pipe
17	505-0091	1	Nipple, Pipe (1 x 7.00)				
18	148-1090	1	Clamp, Fuel System – Input				
19	307-2890	1	Valve, Solenoid				
20	505-0304	1	Tee, Pipe – With Low Pressure Switch				

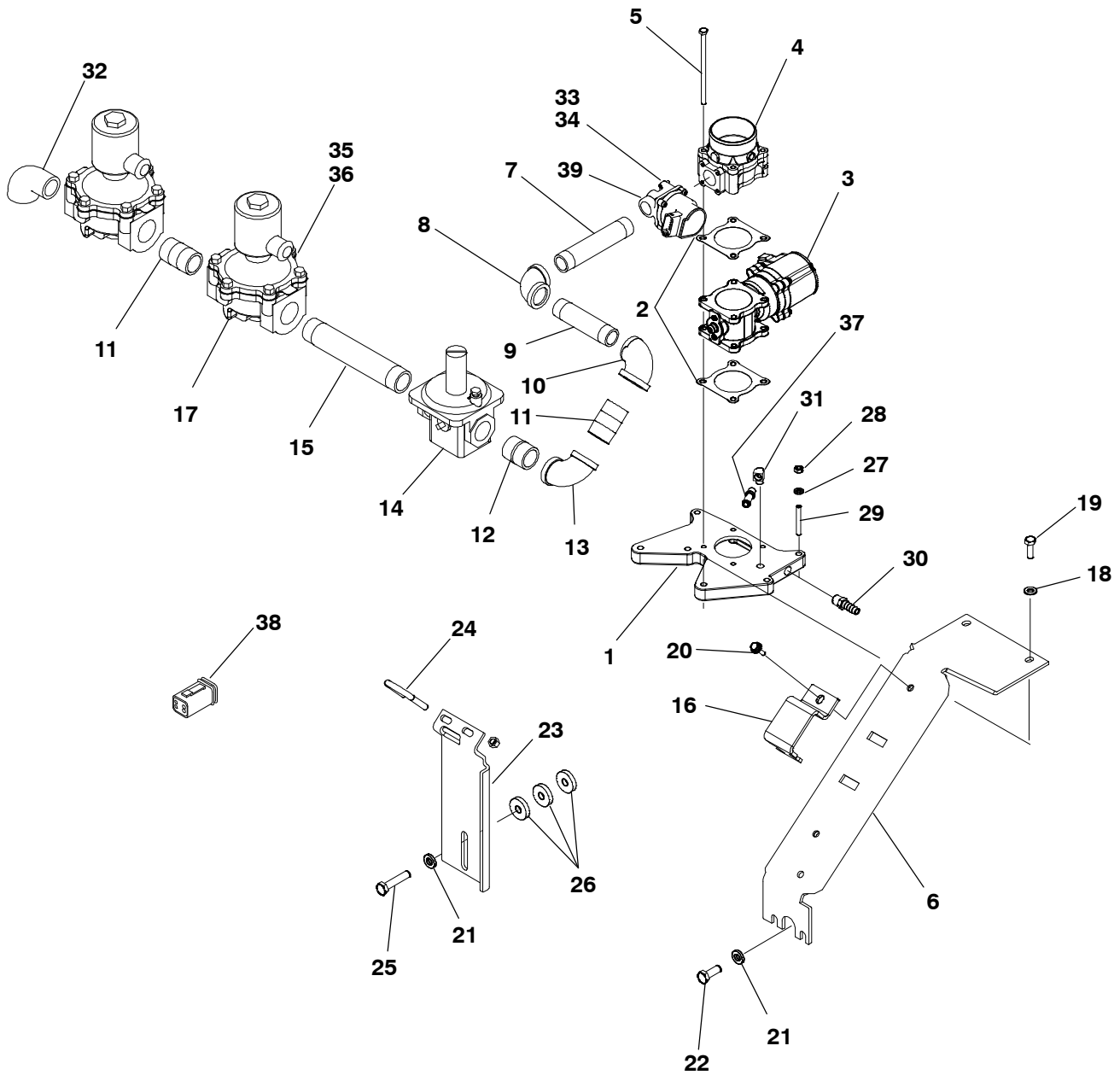
Fuel System Natural Gas Spec F-G



**Fuel System
Natural Gas
Spec F-G**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	20	502-0613	1	Adapter, Hose
2	145-0813	2	Gasket, Throttle Body	21	502-0020-01	1	Elbow, Pipe
3	150-2808	1	Actuator, Rotary (50mm)	22	505-0003	1	Elbow, Street - 90°
4	148-1200-02	1	Mixer, ITB	23	148-1338-02	1	Bracket, Fuel System
5	504-0210	1	Valve, Fuel	24	148-1090	1	Clamp, Fuel System
6	815-1536	4	Screw, Cap - Socket Head (M6 x 1.0 x 110)	25	526-2100	2	Washer, Flat (M8)
7	505-0341	1	Nipple, Pipe (3/4 x 5.00)	26	800-3017-20	2	Screw, Cap - Hex Head (M8 x 1.25 x 25)
8	505-0132	1	Elbow, Pipe	27	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)
9	505-0754	1	Nipple, Pipe (3/4 x 6.00)	28	526-0174	3	Washer, Flat
10	505-0356	1	Elbow (90°)	29	718-1054	2	Screw, Cap - Hex Head (M10 x 1.5 x 25)
11	505-0107	2	Nipple, Pipe (1 x 2.00)	30	148-1339-02	1	Bracket, Fuel System
12	505-0041	1	Elbow, Pipe	31	800-2090	1	Screw, Cap - Hex Head (M10 x 1.5 x 45)
13	505-0004	1	Pipe, Nipple (1 x 1.50)	32	526-0077	3	Washer, Flat (3/8)
14	148-1202	1	Regulator, Fuel	33	155-1256	1	Clamp, Muffler
15	505-0357	1	Nipple, Pipe (1 x 5.50)	34	338-4725-01	1	Harness, Plug - Fuel Select
16	307-2890	2	Valve, Solenoid				
17	526-2080	4	Washer, Flat (M6)				
18	862-0026-54	4	Nut, Hex (M6 x 1)				
19	520-1024	4	Stud (M6)				

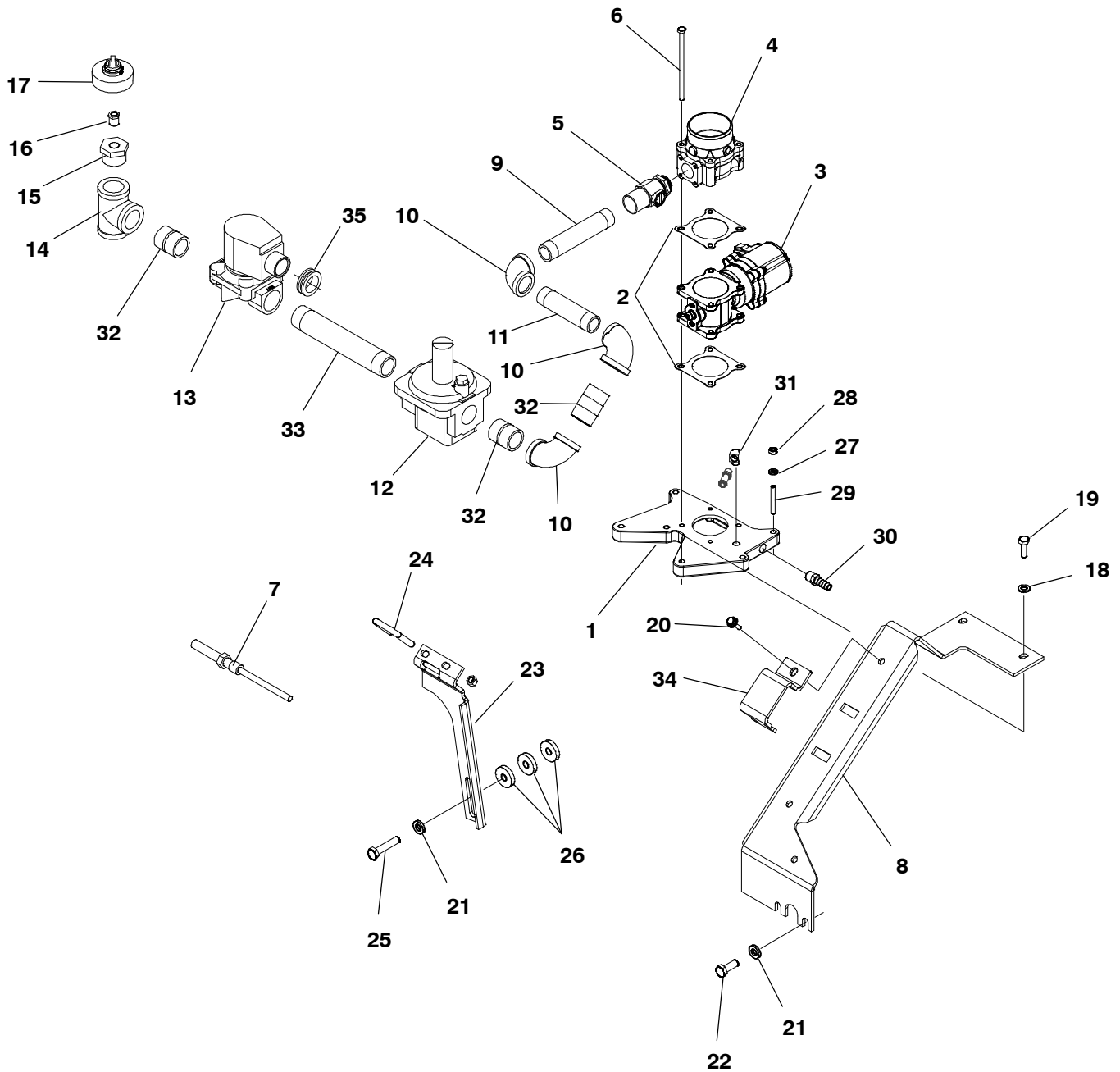
**Fuel System
Natural Gas
Begin Spec H**



**Fuel System
Natural Gas
Begin Spec H**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	21	526-0174	3	Washer, Flat
2	145-0813	2	Gasket, Throttle Body	22	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
3	150-2808	1	Actuator, Rotary (50mm)	23	148-1339-02	1	Bracket, Fuel System
4	148-1200-02	1	Mixer, ITB	24	155-1256	1	Clamp, Fuel System
5	815-1536	4	Screw, Cap – Socket Head (M6 x 1.0 x 110)	25	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
6	148-1338-02	1	Bracket, Fuel System – Mounting	26	526-0077	3	Washer, Flat (M10)
7	505-0341	1	Nipple, Pipe (3/4 x 5.00)	27	526-2080	4	Washer, Flat (M6)
8	505-0132	1	Elbow, Pipe	28	862-0026-54	4	Nut, Hex (M6)
9	505-0754	1	Nipple, Pipe (3/4 x 6.00)	29	520-1024	4	Stud (M6)
10	505-0356	1	Elbow (90°)	30	502-0613	1	Tee, Union
11	505-0107	2	Nipple, Pipe (1 x 2.00)	31	502-0020-01	1	Elbow, Pipe
12	505-0004	1	Nipple, Pipe (1 x 1.50)	32	505-0003	1	Elbow, Street
13	505-0041	1	Elbow, Pipe	33	148-1241	1	Gasket, Fuel Trim
14	A026E047	1	Regulator	34	802-2537	4	Screw, Socket Head (M5 x 0.8 x 16)
15	505-0357	1	Nipple, Pipe (1 x 5.50)	35	332-1992	2	Terminal, Receptacle
16	148-1090	1	Clamp, Fuel System	36	332-2430	2	Terminal, Receptacle
17	307-2884	2	Valve, Solenoid	37	502-0432	1	Fitting, Hose Connector
18	526-2100	2	Washer, Flat (M8)	38	338-4725-01	1	Harness, Plug
19	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	39	300-6409-03	1	Control – Fuel
20	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)				

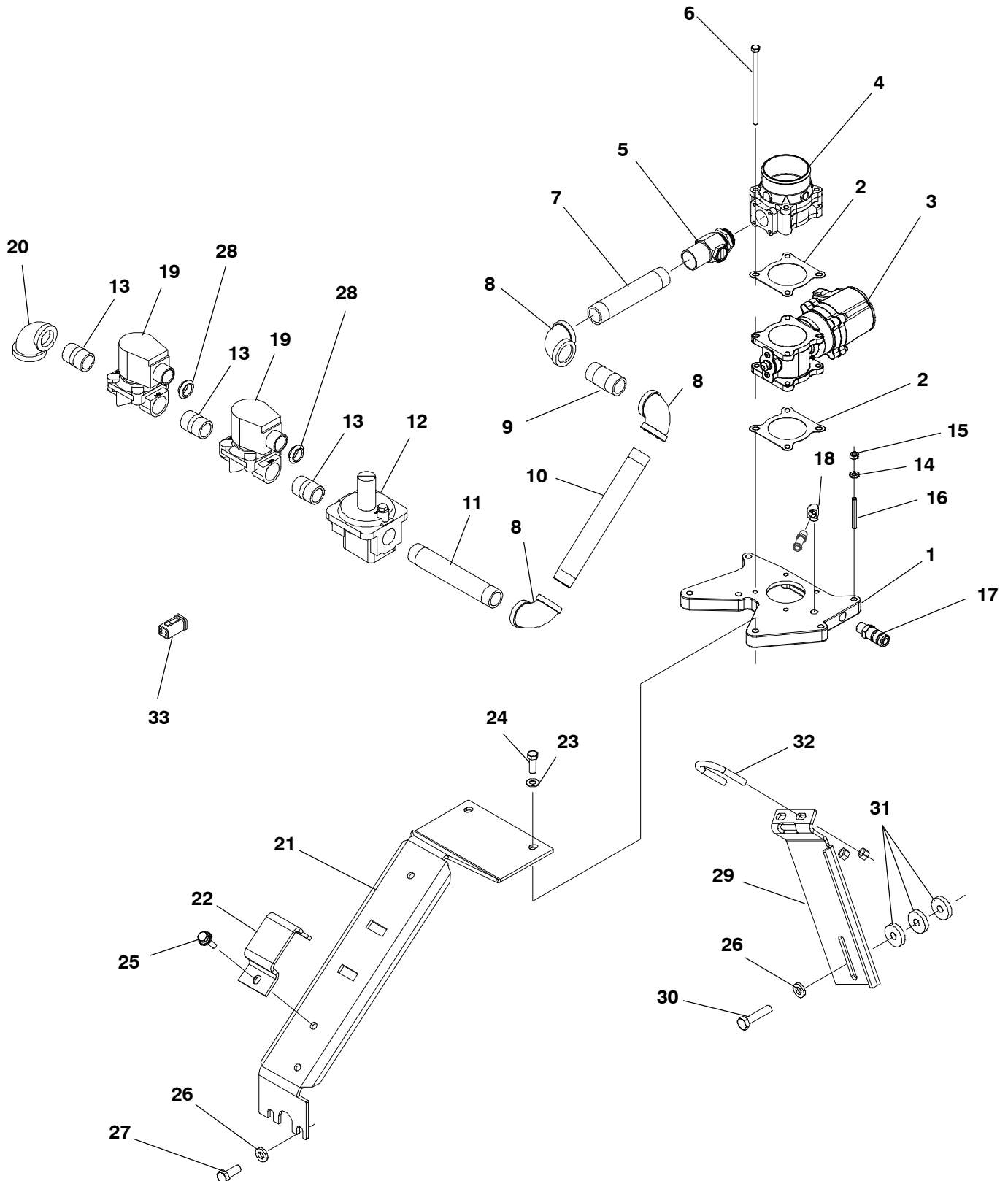
Fuel System Propane Vapor Spec E



**Fuel System
Propane Vapor
Spec E**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	19	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)
2	145-0813	2	Gasket, Throttle Body	20	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)
3	150-2808	1	Actuator, Rotary (50mm)	21	526-0174	3	Washer, Flat
4	148-1200-02	1	Mixer, ITB	22	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
5	504-0210	1	Valve, Fuel	23	148-1247-02	1	Bracket, Fuel System
6	815-1536	4	Screw, Cap – Socket Head (M6 x 1.0 x 110)	24	155-1256	1	Clamp, Muffler
7	150-2651	1	Pickup, Magnetic	25	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
8	148-1164-02	1	Bracket, Fuel System – Mounting	26	526-0393	3	Washer, Flat (M10)
9	505-0341	1	Nipple, Pipe (3/4 x 5.00)	27	526-2080	4	Washer, Flat (M6)
10	505-0132	3	Elbow, Pipe	28	862-0026-54	4	Nut, Hex (M6)
11	505-0337	1	Nipple, Pipe (3/4 x 4.00)	29	520-1024	4	Stud (M6)
12	148-1231	1	Regulator	30	502-0613	1	Connector, Hose
13	307-2930	1	Valve, Solenoid	31	502-0020-01	1	Elbow, Pipe
14	505-0166	1	Tee, Pipe – With Low Pressure Switch	32			Nipple, Pipe (3/4 x 2.00)
15	505-0020	1	Bushing, Reducer (3/4 x 1/4) – With Low Pressure Switch		505-0085	2	Without Low Pressure Switch
16	505-0007	1	Bushing, Reducer (1/4 x 1/8) – With Low Pressure Switch		505-0085	3	With Low Pressure Switch
17	309-0669-01	1	Switch, Low Pressure	33	505-0754	1	Nipple, Pipe (3/4 x 6.00)
18	526-2100	2	Washer, Flat (M8)	34	148-1234-02	1	Clamp, Fuel System
				35	508-1158	1	Grommet

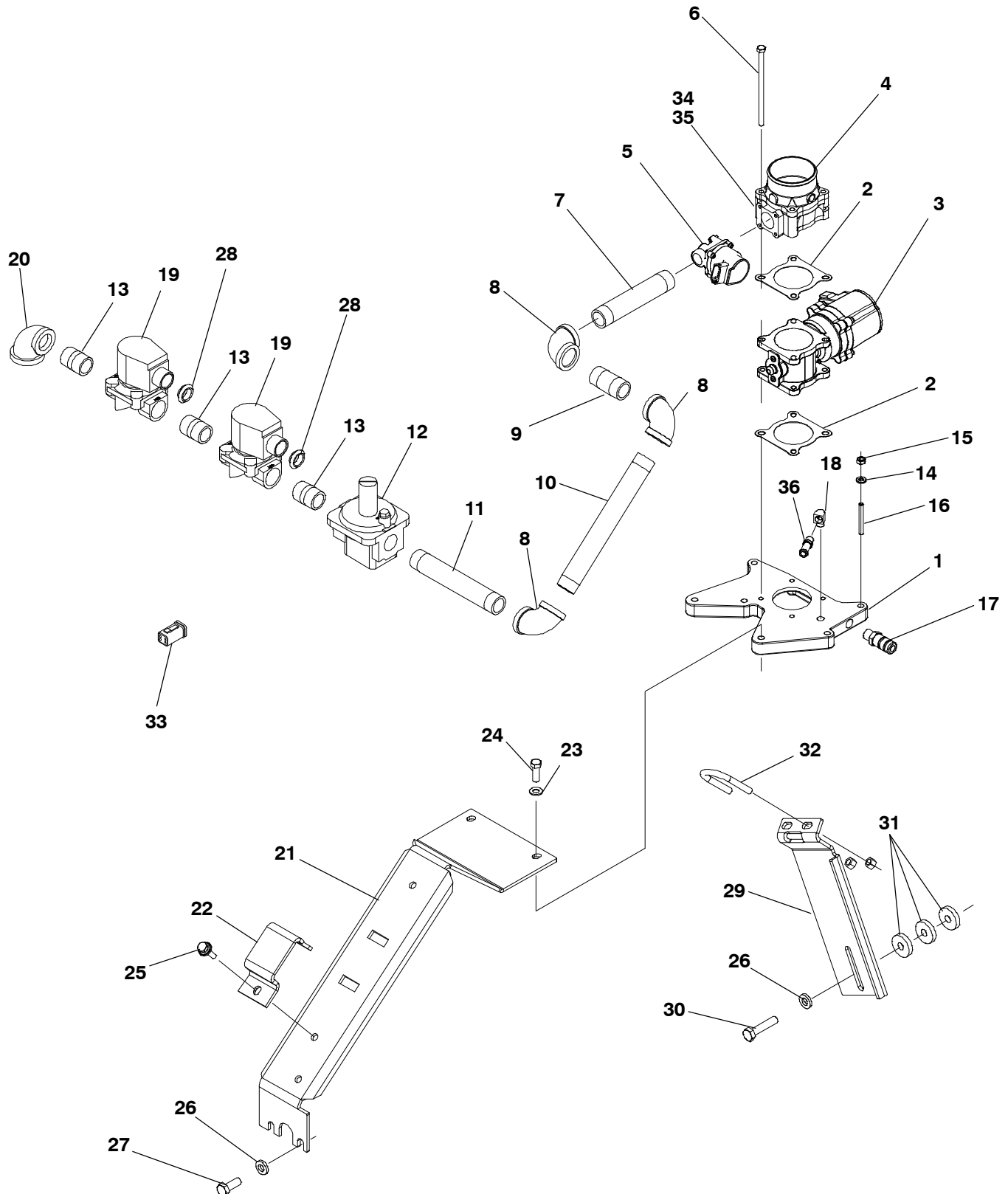
**Fuel System
Propane Vapor
Begin Spec F-G**



**Fuel System
Propane Vapor
Begin Spec F-G**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	19	307-2930	2	Valve, Solenoid
2	145-0813	2	Gasket, Throttle Body	20	505-0356	1	Elbow (90°)
3	150-2808	1	Actuator, Rotary (50mm)	21	148-1338-02	1	Bracket, Fuel System
4	148-1200-02	1	Mixer, ITB	22	148-1234-02	1	Clamp, Fuel System
5	504-0210	1	Valve, Fuel	23	526-2100	2	Washer, Flat (M8)
6	815-1536	4	Screw, Cap – Socket Head (M6 x 1.0 x 110)	24	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)
7	505-0341	1	Nipple, Pipe (3/4 x 5.00)	25	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)
8	505-0132	3	Elbow, Pipe	26	526-0174	3	Washer, Flat
9	505-0085	1	Nipple, Pipe (3/4 x 2.00)	27	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
10	505-0438	1	Nipple, Pipe (3/4 x 8.00)	28	508-1158	2	Grommet
11	505-0754	1	Nipple, Pipe (3/4 x 6.00)	29	148-1339-02	1	Bracket, Fuel System
12	148-1231	1	Regulator	30	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
13	505-0102	3	Nipple, Pipe (3/4 x 1.38)	31	526-0077	3	Washer, Flat (3/8)
14	526-2080	4	Washer, Flat (M6)	32	155-1256	1	Clamp, Muffler
15	862-0026-54	4	Nut, Hex (M6 x 1)	33	338-4725-02	1	Harness, Plug – Fuel Select
16	520-1024	4	Stud (M6)				
17	502-0613	1	Adapter, Hose				
18	502-0020-01	1	Elbow, Pipe				

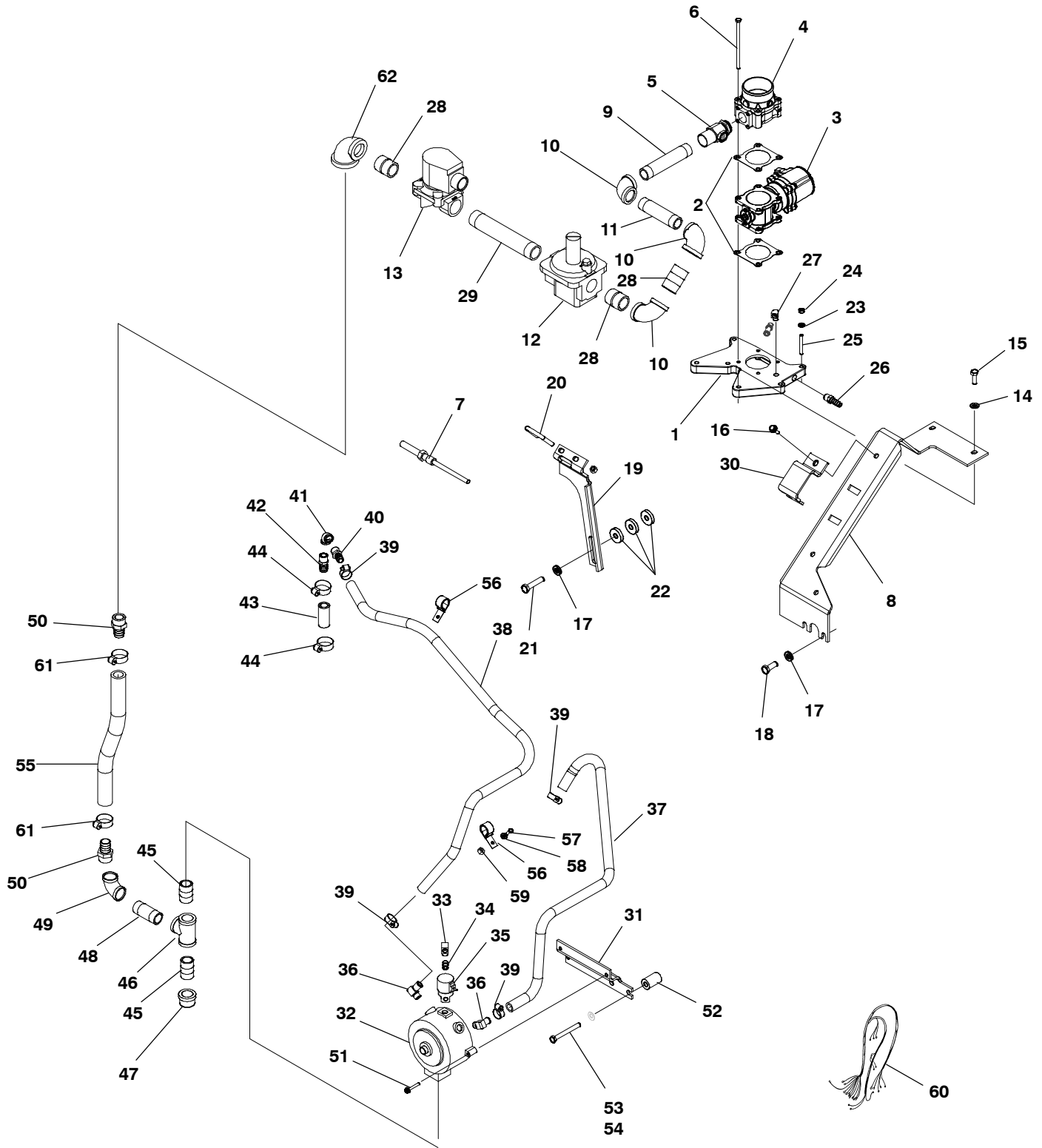
Fuel System Propane Vapor Begin Spec H



**Fuel System
Propane Vapor
Begin Spec H**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	21	148-1338-02	1	Bracket, Fuel System
2	145-0813	2	Gasket, Throttle Body	22	148-1234-02	1	Clamp, Fuel System
3	150-2808	1	Actuator, Rotary (50mm)	23	526-2100	2	Washer, Flat (M8)
4	148-1200-02	1	Mixer, ITB	24	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)
5	300-6409-03	1	Valve, Fuel	25	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)
6	815-1536	4	Screw, Cap – Socket Head (M6 x 1.0 x 110)	26	526-0174	3	Washer, Flat
7	505-0341	1	Nipple, Pipe (3/4 x 5.00)	27	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
8	505-0132	1	Elbow, Pipe	28	508-1158	2	Grommet
9	505-0085	1	Nipple, Pipe (3/4 x 2.00)	29	148-1339-02	1	Bracket, Fuel System
10	505-0438	1	Nipple, Pipe (3/4 x 8.00)	30	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
11	505-0754	1	Nipple, Pipe (3/4 x 6.00)	31	526-0077	3	Washer, Flat (3/8)
12	A026E063	1	Regulator	32	155-1256	1	Clamp, Muffler
13	505-0102	3	Nipple, Pipe (3/4 x 1.38)	33	338-4725-02	1	Harness, Plug – Fuel Select
14	526-2080	4	Washer, Flat (M6)	34	148-1241	1	Gasket
15	862-0026-54	4	Nut, Hex (M6 x 1)	35	802-2537	4	Screw, Cap – Socket Head
16	520-1024	4	Stud (M6)	36	502-0432	1	Fitting, Hose Connector
17	502-0613	1	Adapter, Hose				
18	502-0020-01	1	Elbow, Pipe				
19	307-2930	2	Valve, Solenoid				
20	505-0356	1	Elbow (90°)				

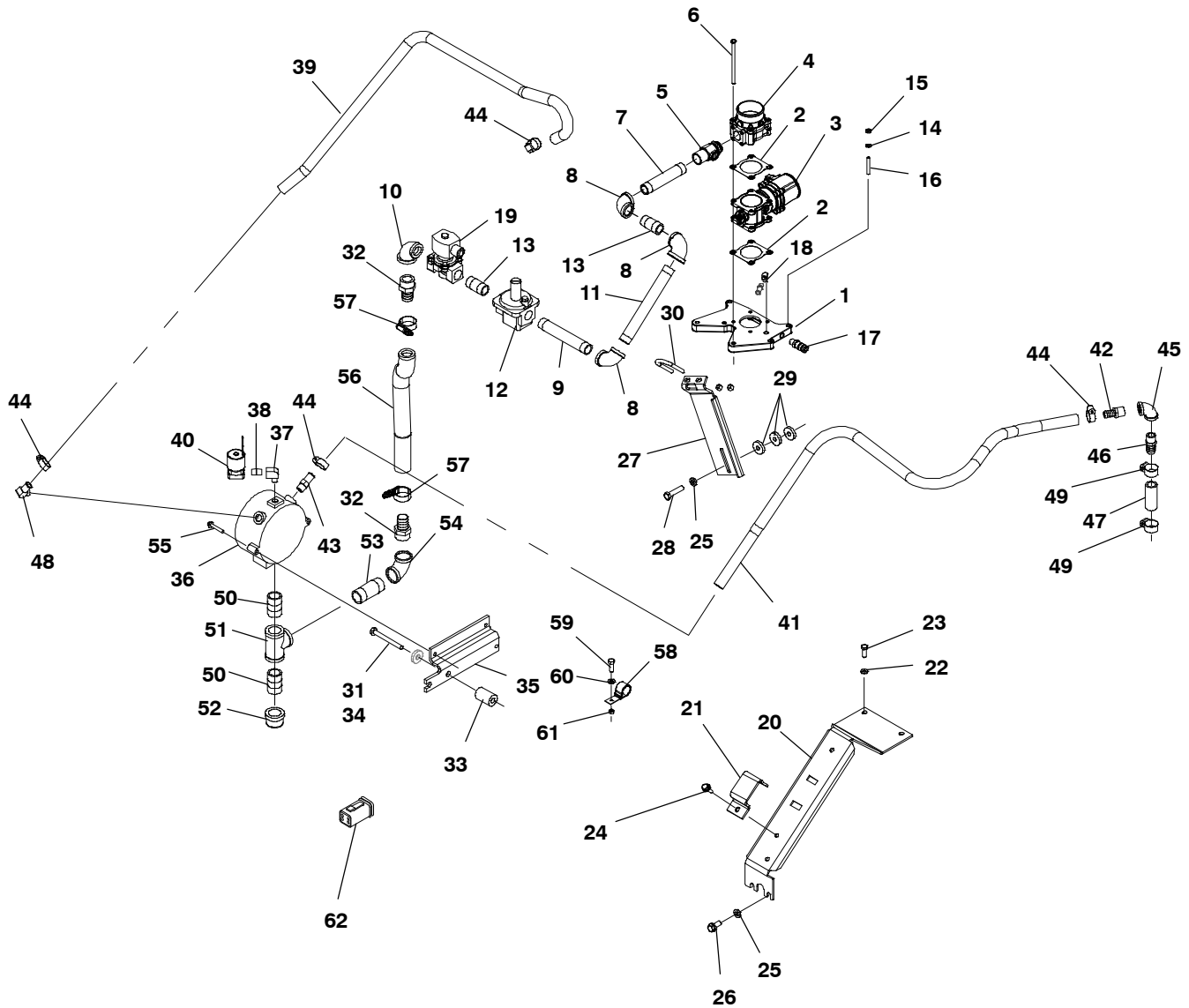
Fuel System Propane Liquid Spec E



Fuel System Propane Liquid Spec E

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	33	502-0054	1	Elbow, Street Pipe
2	145-0813	2	Gasket, Throttle Body	34	505-0099	1	Nipple, Pipe (1/4 x .88)
3	150-2808	1	Actuator, Rotary (50mm)	35	307-0268	1	Valve, Solenoid
4	148-1200-02	1	Mixer, ITB	36	502-0942	2	Elbow, 90° Hose
5	504-0210	1	Valve, Fuel	37	503-2293-04	1	Hose, Coolant
6	815-1536	4	Screw, Cap – Socket Head (M6 x 1.0 x 110)	38	503-2293-05	1	Hose, Coolant
7	150-2651	1	Pickup, Magnetic	39	503-0183	4	Clamp, Hose
8	148-1164-02	1	Bracket, Fuel System – Mounting	40	502-1006	1	Connector, Hose (1/2 x 5/8)
9	505-0341	1	Nipple, Pipe (3/4 x 5.00)	41	505-0040	1	Elbow, Pipe
10	505-0132	3	Elbow, Pipe	42	502-0827	1	Hose, Barb
11	505-0337	1	Nipple, Pipe (3/4 x 4.00)	43	503-0191	–	Hose, Water – Bulk (Order by the Foot – 1 Foot Required)
12	148-1231	1	Regulator	44	503-1870-01	2	Clamp, Hose
13	307-2886	1	Valve, Solenoid	45	505-0107	2	Nipple, Pipe (1 x 2.00)
14	526-2100	2	Washer, Flat (M8)	46	505-0304	1	Tee, Pipe
15	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	47	505-0479	1	Cap, Pipe
16	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)	48	505-0087	1	Nipple, Pipe (1 x 3.00)
17	526-0174	3	Washer, Flat	49	505-0041	1	Elbow, Pipe
18	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	50	502-1110-01	2	Connector, Hose
19	148-1247-02	1	Bracket, Fuel System	51	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
20	155-1256	1	Clamp, Muffler	52	130-3660-02	2	Spacer, Shock Absorber – UCD224 Generator
21	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)	53	718-1067	2	Screw, Cap – Hex Head (M10 x 1.5 x 90) – UCD224 Generator
22	526-0393	3	Washer, Flat (M10)	54	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45) – UC274 Generator
23	526-2080	4	Washer, Flat (M6)	55	503-2353-01	1	Hose, Fuel
24	862-0026-54	4	Nut, Hex (M6)	56	332-3196	3	Clamp, J
25	520-1024	4	Stud (M6)	57	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
26	502-0613	1	Connector, Hose	58	526-0018	1	Washer, Flat (1/4)
27	502-0020-01	1	Elbow, Pipe	59	750-1004	1	Nut, Hex (M6 x 1)
28	505-0085	3	Nipple, Pipe (3/4 x 2.00)	60	338-4395	1	Harness, Jumper
29	505-0754	1	Nipple, Pipe (3/4 x 6.00)	61	503-2157-02	2	Clamp, Hose
30	148-1234-02	1	Clamp, Fuel System	62	505-0356	1	Elbow – 90°
31	148-1248-02	1	Bracket, Converter				
32	148-1240	1	Converter				

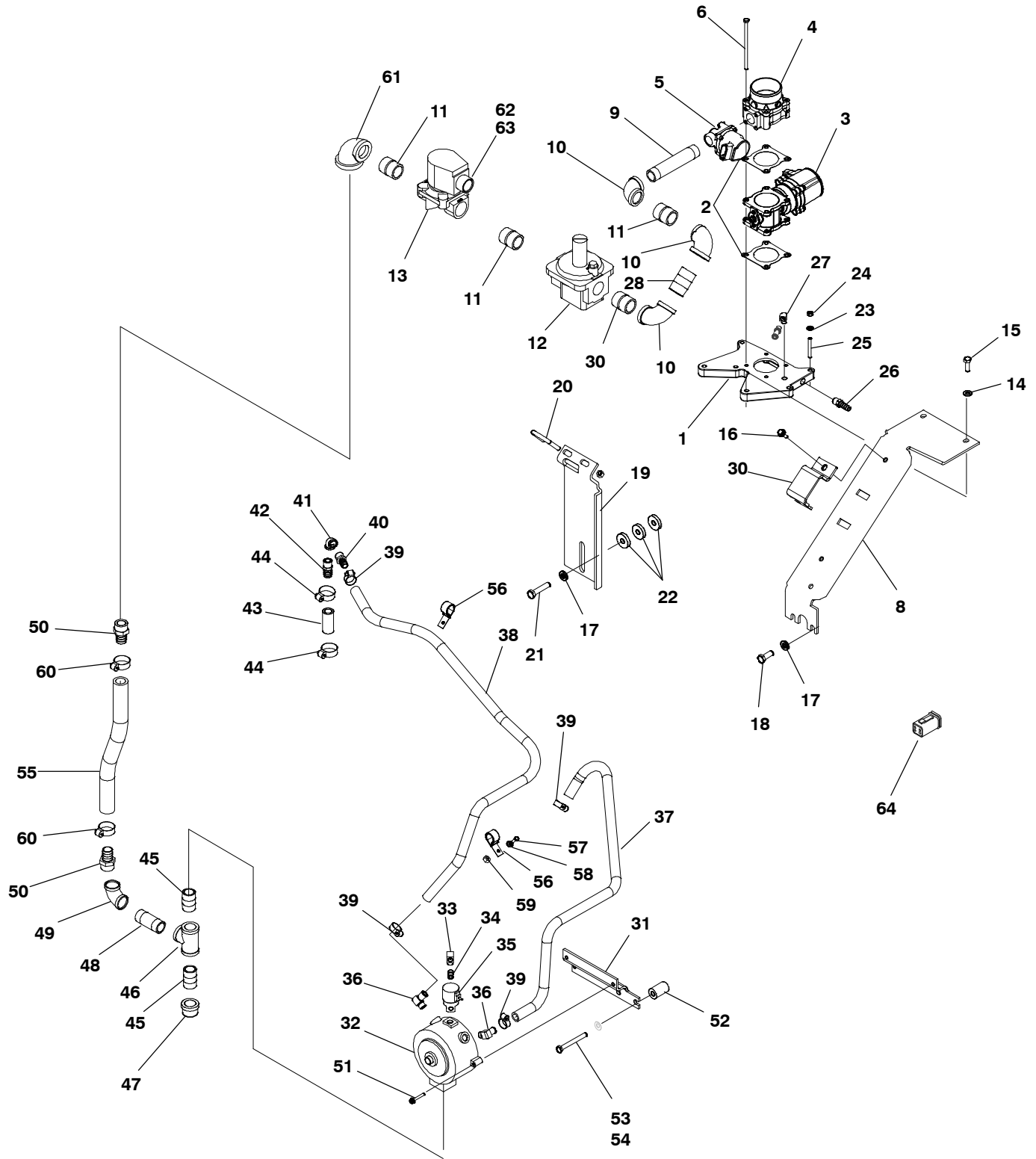
Fuel System Propane Liquid Spec F-G



**Fuel System
Propane Liquid
Spec F-G**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	32	502-1110-01	2	Connector, Hose
2	145-0813	2	Gasket, Throttle Body	33	130-3660-02	2	Spacer, Shock Absorber – UC22
3	150-2808	1	Actuator, Rotary (50mm)	34	718-1067	2	Screw, Cap – Hex Head (M10 x 1.5 x 90 – UC22
4	148-1200-02	1	Mixer, ITB	35	148-1248-02	1	Bracket, Converter
5	504-0210	1	Valve, Fuel	36	148-1240	1	Converter – LP
6	815-1536	4	Screw, Cap – Socket Head (M6 x 1.0 x 110)	37	502-0054	1	Elbow, Street – Pipe
7	505-0341	1	Nipple, Pipe (3/4 x 5.00)	38	505-0099	1	Nipple, Pipe (1/4 x .88)
8	505-0132	3	Elbow, Pipe	39	503-2293-04	1	Hose, Coolant
9	505-0754	1	Nipple, Pipe (3/4 x 6.00)	40	307-0268	1	Valve, Solenoid
10	505-0356	1	Elbow – 90°	41	503-2293-05	1	Hose, Coolant
11	505-0438	1	Nipple, Pipe (3/4 x 8.00)	42	502-1006	1	Connector, Hose (1/2 x 5/8)
12	148-1231	1	Regulator	43	502-0943	1	Connector, Hose (3/8 x 5/8)
13	505-0085	2	Nipple, Pipe (3/4 x 2.00)	44	503-0183	4	Clamp, Hose
14	526-2080	4	Washer, Flat (M6)	45	505-0040	1	Elbow, Pipe
15	862-0026-54	4	Nut, Hex (M6 x 1)	46	502-0827	1	Barb, Hose
16	520-1024	4	Stud (M6)	47	503-1194	1	Hose
17	502-0613	1	Adapter, Hose	48	502-0942	1	Elbow, Hose – 90° (3/8 x 5/8)
18	502-0020-01	1	Elbow, Pipe	49	503-1870-01	2	Clamp, Hose
19	307-2886	1	Valve, Solenoid	50	505-0107	2	Nipple, Pipe (1" x 2.00)
20	148-1338-02	1	Bracket, Fuel System	51	505-0304	1	Tee, Pipe
21	148-1234-02	1	Clamp, Fuel System	52	505-0479	1	Cap, Pipe
22	526-2100	2	Washer, Flat (M8)	53	505-0087	1	Nipple, Pipe (1" x 3.00)
23	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	54	505-0041	1	Elbow, Pipe
24	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)	55	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
25	526-0174	3	Washer, Flat	56	503-2353-03	1	Hose, Fuel – LP
26	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	57	503-2157-02	2	Clamp, Hose
27	148-1339-02	1	Bracket, Fuel System	58	332-3196	2	Clamp, J
28	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)	59	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
29	526-0077	3	Washer, Flat (3/8)	60	526-0018	1	Washer, Flat (1/4)
30	155-1256	1	Clamp, Muffler	61	750-1004	1	Nut, Hex (M6 x 1)
31	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45) – UC27	62	338-4725-02	1	Harness, Plug – Fuel Select

Fuel System **Propane Liquid** **Begin Spec H**



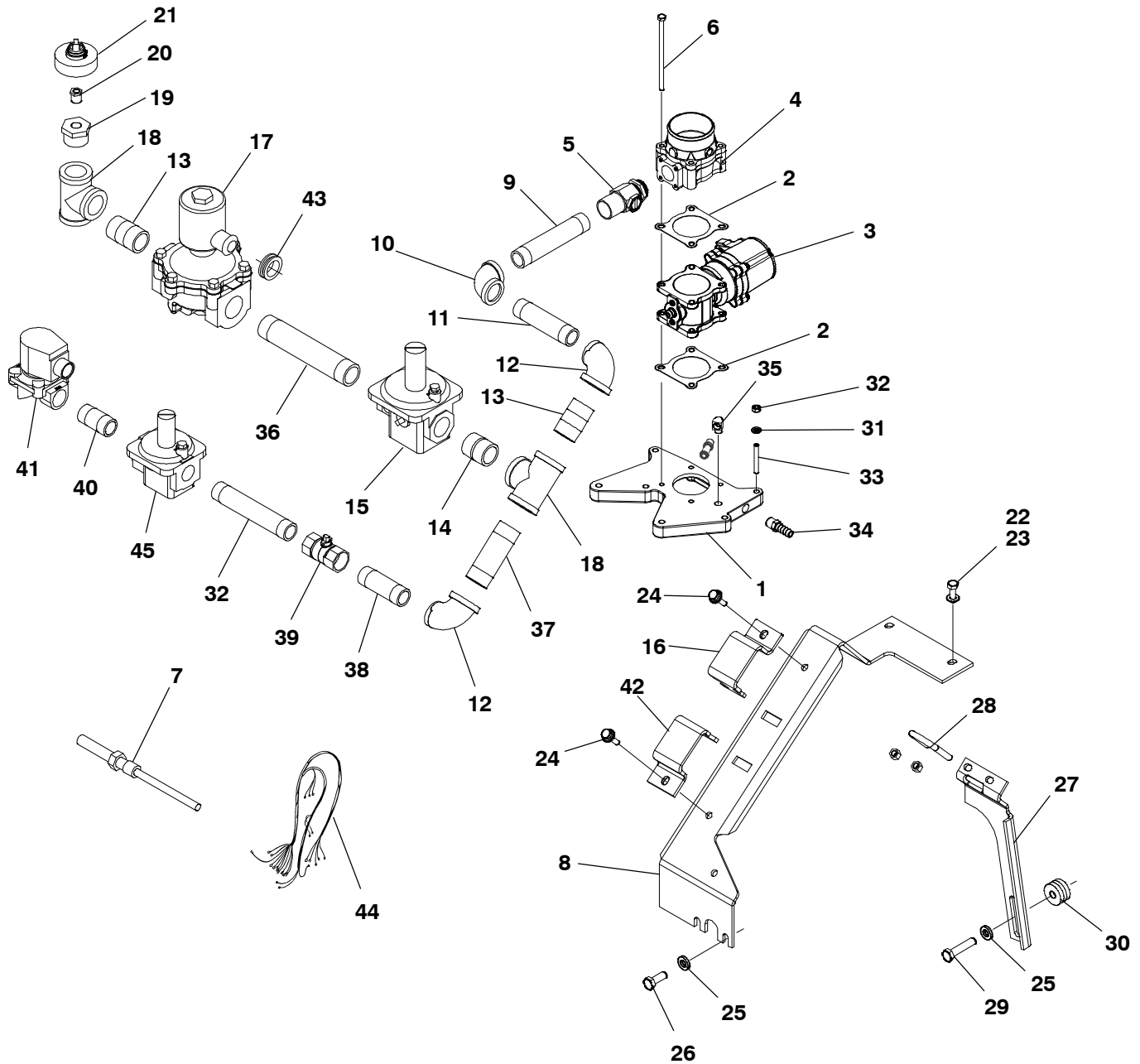
**Fuel System
Propane Liquid
Begin Spec H**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	34	505-0099	1	Nipple, Pipe (1/4 x .88)
2	145-0813	2	Gasket, Throttle Body	35	307-0268	1	Valve, Solenoid
3	150-2808	1	Actuator, Rotary (50mm)	36	502-0943	1	Fitting, Hose
4	148-1200-02	1	Mixer, ITB	37	503-2293-04	1	Hose, Coolant
5	300-6409-03	1	Control - Fuel	38	503-2293-05	1	Hose, Coolant
6	815-1536	4	Screw, Cap - Socket Head (M6 x 1.0 x 110)	39	503-0183	4	Clamp, Hose
7	150-2651	1	Pickup, Magnetic	40	502-1006	1	Connector, Hose (1/2 x 5/8)
8	148-1338-02	1	Bracket, Fuel System - Mounting	41	505-0040	1	Elbow, Pipe
9	505-0341	1	Nipple, Pipe (3/4 x 5.00)	42	502-0827	1	Hose, Barb
10	505-0132	3	Elbow, Pipe	43	503-1194	-	Hose, Water - Bulk (Order by the Foot - 1 Foot Required)
11	505-0085	3	Nipple, Pipe (3/4 x 2.00)	44	503-1870-01	2	Clamp, Hose
12	A026E063	1	Regulator	45	505-0107	2	Nipple, Pipe (1 x 2.00)
13	307-2886	1	Valve, Solenoid	46	505-0304	1	Tee, Pipe
14	526-2100	2	Washer, Flat (M8)	47	505-0479	1	Cap, Pipe
15	800-3017-20	2	Screw, Cap - Hex Head (M8 x 1.25 x 25)	48	505-0087	1	Nipple, Pipe (1 x 3.00)
16	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)	49	505-0041	1	Elbow, Pipe
17	526-0174	3	Washer, Flat	50	502-1110-01	2	Connector, Hose
18	718-1054	2	Screw, Cap - Hex Head (M10 x 1.5 x 25)	51	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
19	148-1339-02	1	Bracket, Fuel System	52	130-3660-02	2	Spacer, Shock Absorber - UCD224 Generator
20	155-1256	1	Clamp, Muffler	53	718-1067	2	Screw, Cap - Hex Head (M10 x 1.5 x 90) - UCD224 Generator
21	800-2090	1	Screw, Cap - Hex Head (M10 x 1.5 x 45)	54	800-2115	2	Screw, Cap - Hex Head (M12 x 1.5 x 45) - UC274 Generator
22	526-0077	3	Washer, Flat (M10)	55	503-2353-03	1	Hose, Fuel
23	526-2080	4	Washer, Flat (M6)	56	332-3196	3	Clamp, J
24	862-0026-54	4	Nut, Hex (M6)	57	800-2034	1	Screw, Cap - Hex Head (M6 x 1 x 20)
25	520-1024	4	Stud (M6)	58	526-0018	1	Washer, Flat (1/4)
26	502-0613	1	Connector, Hose	59	750-1004	1	Nut, Hex (M6 x 1)
27	502-0020-01	1	Elbow, Pipe	60	503-2157-02	2	Clamp, Hose
28	505-0085	3	Nipple, Pipe (3/4 x 2.00)	61	505-0356	1	Elbow - 90°
29	505-0754	1	Nipple, Pipe (3/4 x 6.00)	62	332-1992	2	Terminal, Receptacle
30	148-1234-02	1	Clamp, Fuel System	63	332-2430	2	Terminal, Receptacle
31	148-1248-02	1	Bracket, Converter	64	338-4725-02	1	Harness, Plug
32	148-1240	1	Converter				
33	502-0054	1	Elbow, Street Pipe				

Fuel System

Natural Gas / Propane Vapor With Automatic Changeover

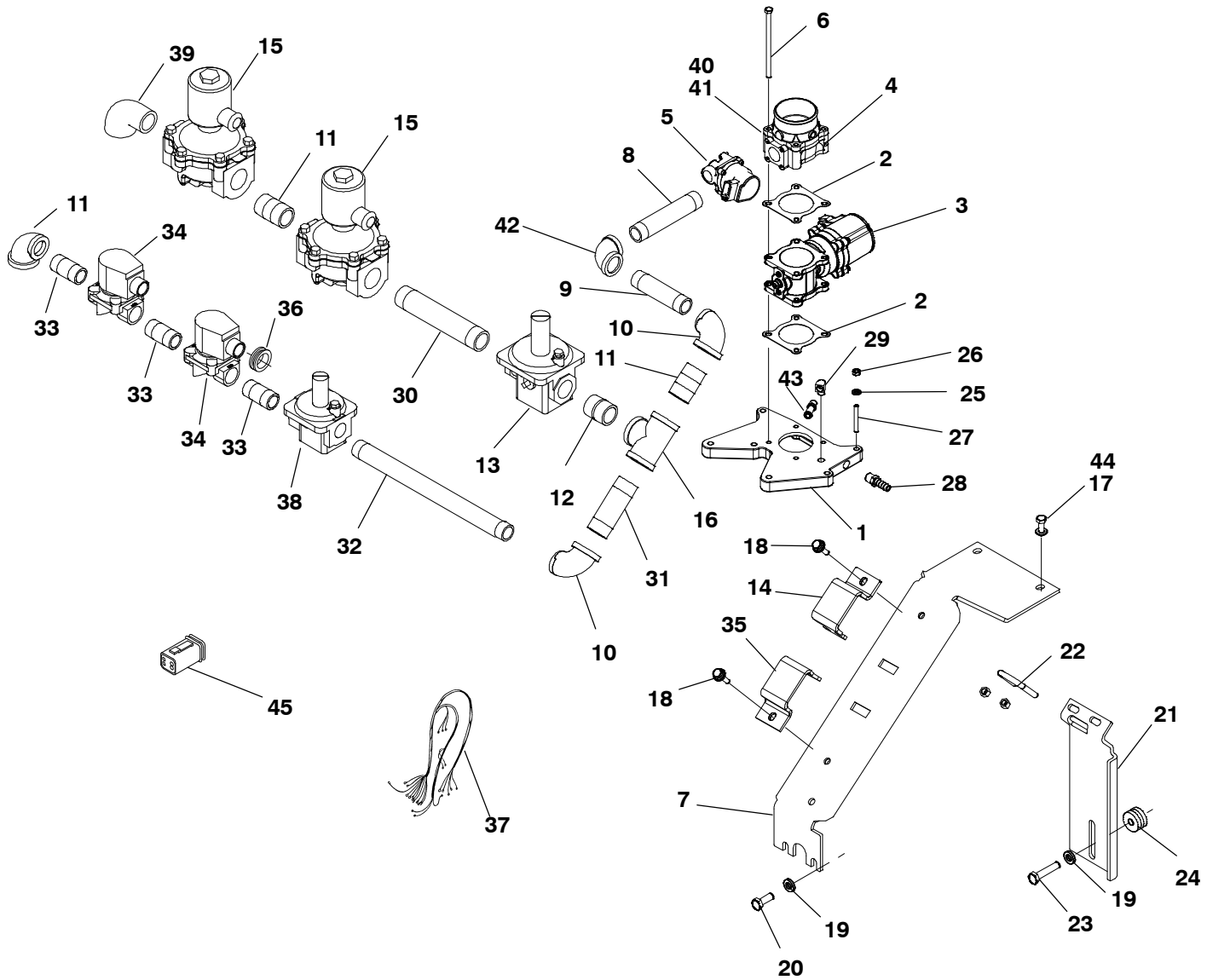
Spec E-G



Fuel System
Natural Gas / Propane Vapor With Automatic Changeover
Spec E-G

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	24	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)
2	145-0813	2	Gasket, Throttle Body	25	526-0174	3	Washer, Flat
3	150-2808	1	Actuator, Rotary (50mm)	26	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
4	148-1200-02	1	Mixer, ITB	27	148-1247-02	1	Bracket, Fuel System
5	504-0210	1	Valve, Fuel	28	155-1256	1	Clamp, Muffler
6	815-1536	4	Screw, Cap – Socket Head (M6 x 1.0 x 110)	29	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
7	150-2651	1	Pickup, Magnetic	30	526-0077	3	Washer, Flat (M10)
8	148-1164-02	1	Bracket, Fuel System – Mounting	31	526-2080	4	Washer, Flat (M6)
9	505-0341	1	Nipple, Pipe (3/4 x 5.00)	32	862-0026-54	4	Nut, Hex (M6)
10	505-0132	1	Elbow, Pipe	33	520-1024	4	Stud (M6)
11	505-0337	1	Nipple, Pipe (3/4 x 4.00)	34	502-0613	1	Connector, Hose
12	505-0356	2	Elbow (90°)	35	502-0020-01	1	Elbow, Pipe
13	505-0107	2	Nipple, Pipe (1 x 2.00)	36	505-0492	1	Nipple, Pipe (1 x 6.50)
14	505-0004	1	Nipple, Pipe (1 x 1.50)	37	505-0147	1	Nipple, Pipe (1 x 3.50)
15	148-1202	1	Regulator	38	505-0332	1	Nipple, Pipe (3/4 x 3.00)
16	148-1090	1	Clamp, Fuel System – Input	39	504-0171	1	Valve
17	307-2890	1	Valve, Solenoid	40	505-0085	1	Nipple, Pipe (3/4 x 2.00)
18	505-0304	2	Tee, Pipe	41	307-2930	1	Valve, Solenoid
19	505-0802	1	Bushing, Reducer (1 x 1/4)	42	148-1234-02	1	Clamp, Fuel System
20	505-0007	1	Bushing, Reducer (1/4 x 1/8)	43	508-1158	1	Grommet
21	309-0669-01	1	Switch, Low Pressure	44	338-3816-01	1	Harness, Dual Fuel
22	526-2100	2	Washer, Flat (M8)	45	148-1231	1	Regulator
23	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)				

Fuel System
Natural Gas / Propane Vapor With Automatic Changeover
Begin Spec H



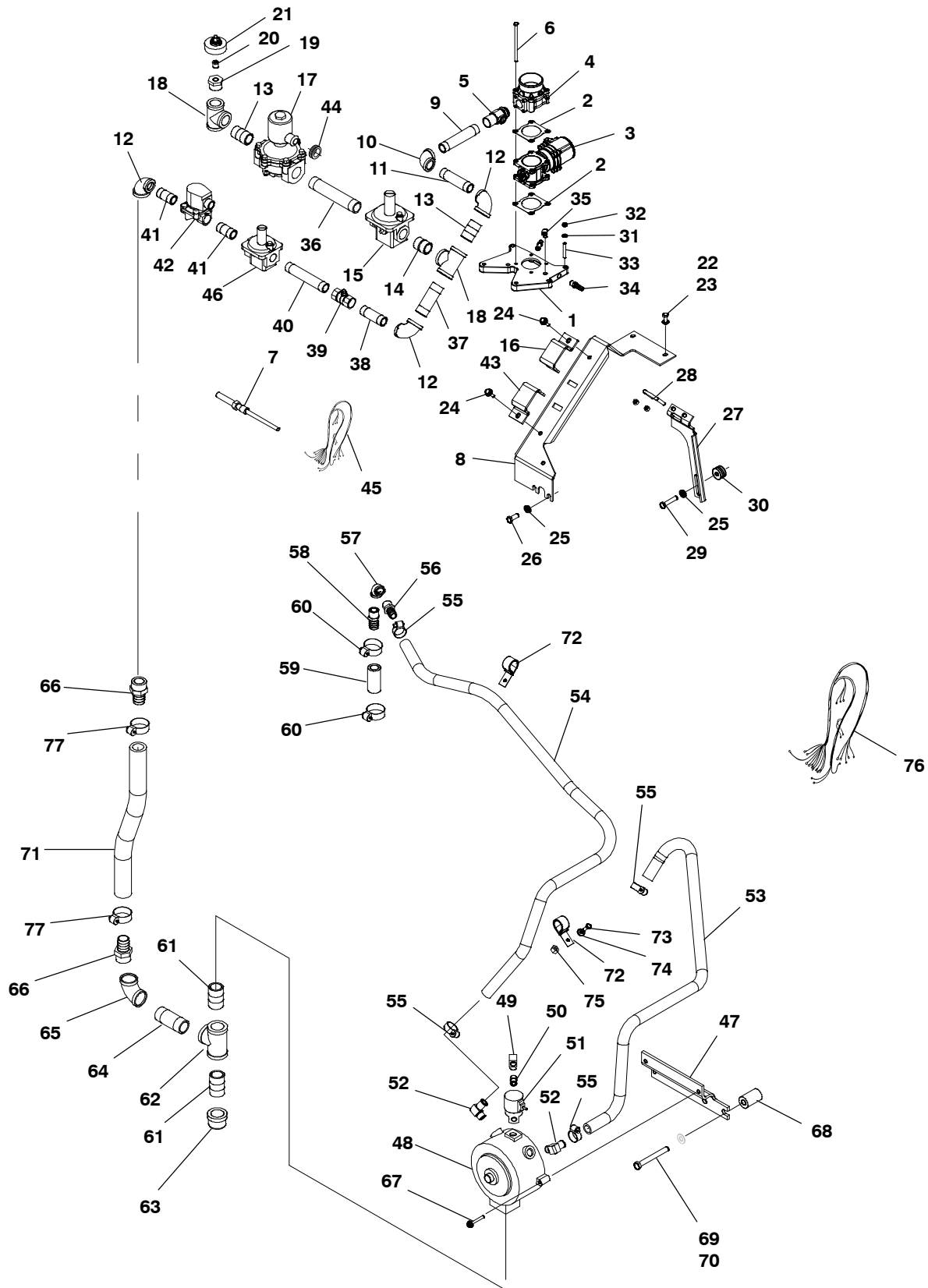
Fuel System
Natural Gas / Propane Vapor With Automatic Changeover
Begin Spec H

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	22	155-1256	1	Clamp, Muffler
2	145-0813	2	Gasket, Throttle Body	23	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
3	150-2808	1	Actuator, Rotary (50mm)	24	526-0077	3	Washer, Flat (M10)
4	148-1200-02	1	Mixer, ITB	25	526-2080	4	Washer, Flat (M6)
5	300-6409-02	1	Valve, Fuel	26	862-0026-54	4	Nut, Hex (M6)
6	815-1536	4	Screw, Cap – Socket Head (M6 x 1.0 x 110)	27	520-1024	4	Stud (M6)
7	148-1338-02	1	Bracket, Fuel System – Mounting	28	502-0613	1	Connector, Hose
8	505-0341	1	Nipple, Pipe (3/4 x 5.00)	29	502-0020-01	1	Elbow, Pipe
9	505-0754	1	Fitting, Nipple	30	505-0357	1	Nipple, Pipe (1 x 5.50)
10	505-0356	3	Elbow (90°)	31	505-0147	1	Nipple, Pipe (1 x 3.50)
11	505-0107	2	Nipple, Pipe (1 x 2.00)	32	505-1526	1	Nipple, Pipe (3/4 x 10.0)
12	505-0004	1	Nipple, Pipe (1 x 1.50)	33	505-0102	3	Nipple, Pipe (3/4 x 1.38)
13	A026E047	1	Regulator	34	307-2930	2	Valve, Solenoid
14	148-1090	1	Clamp, Fuel System – Input	35	148-1234-02	1	Clamp, Fuel System
15	307-2884	2	Valve, Solenoid	36	508-1158	2	Grommet
16	505-0304	2	Tee, Pipe	37	338-3816-01	1	Harness, Dual Fuel
17	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	38	A026E063	1	Regulator
18	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)	39	505-0003	1	Elbow, Street
19	526-0174	3	Washer, Flat	40	148-1241	1	Gasket
20	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	41	802-2537	4	Screw, Cap – Socket Head
21	148-1339-02	1	Bracket, Fuel System	42	505-0132	1	Elbow, Pipe
				43	502-0432	1	Fitting, Hose Connector
				44	526-2100	2	Washer, Flat
				45	338-4725-03	1	Harness, Plug

Fuel System

Natural Gas / Propane Liquid With Automatic Changeover

Spec E-G



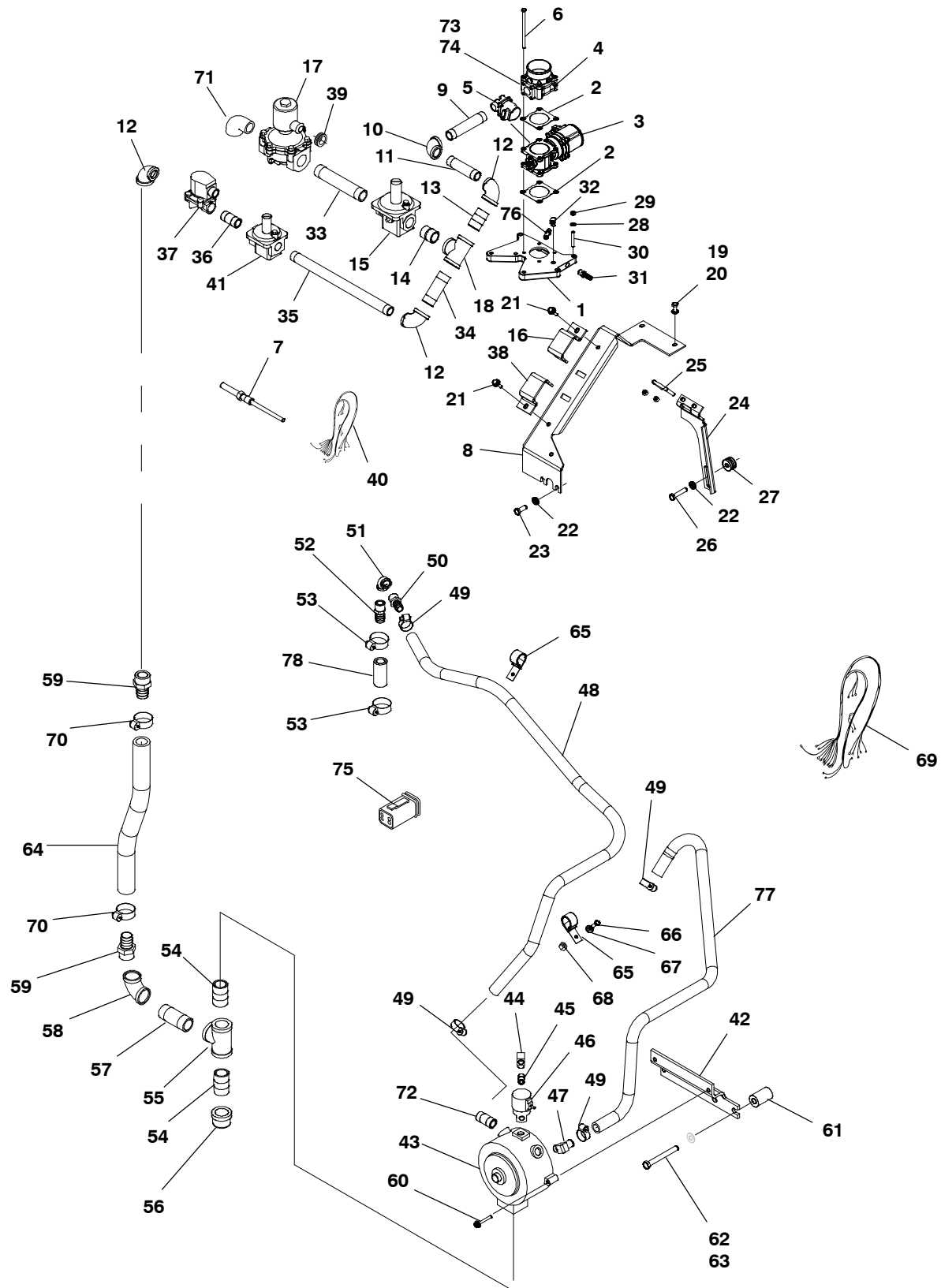
Fuel System
Natural Gas / Propane Liquid With Automatic Changeover
Spec E-G

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	40	505-0165	1	Nipple, Pipe (3/4 x 5.50)
2	145-0813	2	Gasket, Throttle Body	41	505-0085	2	Nipple, Pipe (3/4 x 2.00)
3	150-2808	1	Actuator, Rotary (50mm)	42	307-2886	1	Valve, Solenoid
4	148-1200-02	1	Mixer, ITB	43	148-1234-02	1	Clamp, Fuel System
5	504-0210	1	Valve, Fuel	44	508-1158	1	Grommet
6	815-1536	4	Screw, Cap – Socket Head (M6 x 1.0 x 110)	45	338-3816-01	1	Harness, Dual Fuel
7	150-2651	1	Pickup, Magnetic	46	148-1231	1	Regulator
8	148-1164-02	1	Bracket, Fuel System – Mounting	47	148-1248-02	1	Bracket, Converter
9	505-0341	1	Nipple, Pipe (3/4 x 5.00)	48	148-1240	1	Converter
10	505-0132	1	Elbow, Pipe	49	502-0054	1	Elbow, Street Pipe
11	505-0337	1	Nipple, Pipe (3/4 x 4.00)	50	505-0099	1	Nipple, Pipe (1/4 x .88)
12	505-0356	3	Elbow (90°)	51	307-0268	1	Valve, Solenoid
13	505-0107	2	Nipple, Pipe (1 x 2.00)	52	502-0942	2	Elbow, 90° Hose
14	505-0004	1	Nipple, Pipe (1 x 1.50)	53	503-2293-04	1	Hose, Coolant
15	148-1202	1	Regulator	54	503-2293-05	1	Hose, Coolant
16	148-1090	1	Clamp, Fuel System – Input	55	503-0183	4	Clamp, Hose
17	307-2890	1	Valve, Solenoid	56	502-1006	1	Connector, Hose (1/2 x 5/8)
18	505-0304	2	Tee, Pipe	57	505-0040	1	Elbow, Pipe
19	505-0802	1	Bushing, Reducer (1 x 1/4)	58	502-0827	1	Hose, Barb
20	505-0007	1	Bushing, Reducer (1/4 x 1/8)	59	503-0191	–	Hose, Water – Bulk (Order by the Foot – 1 Foot Required)
21	309-0669-01	1	Switch, Low Pressure	60	503-1870-01	2	Clamp, Hose
22	526-2100	2	Washer, Flat (M8)	61	505-0107	2	Nipple, Pipe (1 x 2.00)
23	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	62	505-0304	1	Tee, Pipe
24	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)	63	505-0479	1	Cap, Pipe
25	526-0174	3	Washer, Flat	64	505-0087	1	Nipple, Pipe (1 x 3.00)
26	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	65	505-0041	1	Elbow, Pipe
27	148-1247-02	1	Bracket, Fuel System	66	502-1110-01	2	Connector, Hose
28	155-1256	1	Clamp, Muffler	67	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
29	718-1067	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)	68	130-3660-02	2	Spacer, Shock Absorber – UCD224 Generator
30	526-0077	3	Washer, Flat (M10)	69	718-1067	2	Screw, Cap – Hex Head (M10 x 1.5 x 90) – UCD224 Generator
31	526-2080	4	Washer, Flat (M6)	70	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45) – UC274 Generator
32	862-0026-54	4	Nut, Hex (M6)	71	503-2353-03	1	Hose, Fuel
33	520-1024	4	Stud (M6)	72	332-3196	3	Clamp, J
34	502-0613	1	Connector, Hose	73	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
35	502-0020-01	1	Elbow, Pipe	74	526-0018	1	Washer, Flat (1/4)
36	505-0492	1	Nipple, Pipe (1 x 6.50)	75	750-1004	1	Nut, Hex (M6 x 1)
37	505-0147	1	Nipple, Pipe (1 x 3.50)	76	338-4395	1	Harness, Jumper
38	505-0332	1	Nipple, Pipe (3/4 x 3.00)	77	503-2157-02	2	Clamp, Hose
39	504-0171	1	Valve				

Fuel System

Natural Gas / Propane Liquid With Automatic Changeover

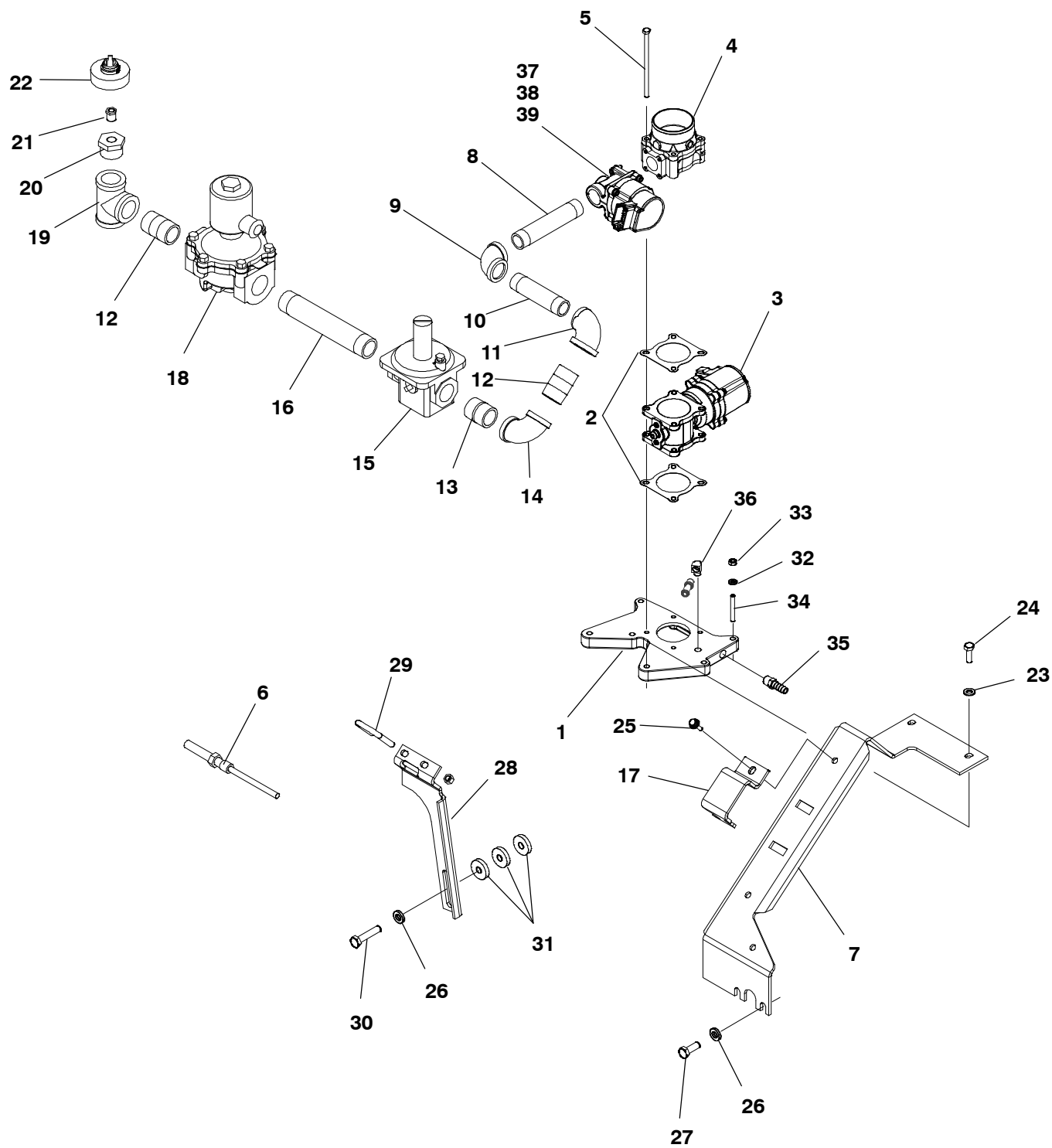
Begin Spec H



Fuel System
Natural Gas / Propane Liquid With Automatic Changeover
Begin Spec H

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	40	338-3816-01	1	Harness, Dual Fuel
2	145-0813	2	Gasket, Throttle Body	41	A026E063	1	Regulator
3	150-2808	1	Actuator, Rotary (50mm)	42	148-1248-02	1	Bracket, Converter
4	148-1200-02	1	Mixer, ITB	43	148-1240	1	Converter
5	300-6409-03	1	Control - Fuel	44	502-0054	1	Elbow, Street Pipe
6	815-1536	4	Screw, Cap - Socket Head (M6 x 1.0 x 110)	45	505-0099	1	Nipple, Pipe (1/4 x .88)
7	150-2651	1	Pickup, Magnetic	46	307-0268-01	1	Valve, Solenoid
8	148-1338-02	1	Bracket, Fuel System - Mounting	47	502-0942	1	Elbow, 90° Hose
9	505-0341	1	Nipple, Pipe (3/4 x 5.00)	48	503-2293-05	1	Hose, Coolant
10	505-0132	1	Elbow, Pipe	49	503-0183	4	Clamp, Hose
11	505-0754	1	Nipple, Pipe (3/4 x 4.00)	50	502-1006	1	Connector, Hose (1/2 x 5/8)
12	505-0356	3	Elbow (90°)	51	505-0040	1	Elbow, Pipe
13	505-0107	1	Nipple, Pipe (1 x 2.00)	52	502-0827	1	Hose, Barb
14	505-0004	1	Nipple, Pipe (1 x 1.50)	53	503-1870-01	2	Clamp, Hose
15	A026E047	1	Regulator	54	505-0107	2	Nipple, Pipe (1 x 2.00)
16	148-1090	1	Clamp, Fuel System - Input	55	505-0304	1	Tee, Pipe
17	307-2884	2	Valve, Solenoid	56	505-0479	1	Cap, Pipe
18	505-0304	1	Tee, Pipe	57	505-0087	1	Nipple, Pipe (1 x 3.00)
19	526-2100	2	Washer, Flat (M8)	58	505-0041	1	Elbow, Pipe
20	800-3017-20	2	Screw, Cap - Hex Head (M8 x 1.25 x 25)	59	502-1110-01	2	Connector, Hose
21	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)	60	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
22	526-0174	3	Washer, Flat	61	130-3660-02	2	Spacer, Shock Absorber - UCD224 Generator
23	718-1054	2	Screw, Cap - Hex Head (M10 x 1.5 x 25)	62	718-1067	2	Screw, Cap - Hex Head (M10 x 1.5 x 90) - UCD224 Generator
24	148-1339-02	1	Bracket, Fuel System	63	800-2115	2	Screw, Cap - Hex Head (M12 x 1.5 x 45) - UC274 Generator
25	155-1256	1	Clamp, Muffler	64	503-2353-03	1	Hose, Fuel
26	800-2090	1	Screw, Cap - Hex Head (M10 x 1.5 x 45)	65	332-3196	2	Clamp, J
27	526-0077	3	Washer, Flat (M10)	66	800-2034	1	Screw, Cap - Hex Head (M6 x 1 x 20)
28	526-2080	4	Washer, Flat (M6)	67	526-0018	1	Washer, Flat (1/4)
29	862-0026-54	4	Nut, Hex (M6)	68	750-1004	1	Nut, Hex (M6 x 1)
30	520-1024	4	Stud (M6)	69	338-4395	1	Harness, Jumper
31	502-0613	1	Connector, Hose	70	503-2157-02	2	Clamp, Hose
32	502-0020-01	1	Elbow, Pipe	71	505-0003	1	Elbow, Street
33	505-0357	1	Nipple, Pipe (1 x 5.50)	72	502-0943	1	Connector, Hose
34	505-0147	1	Nipple, Pipe (1 x 3.50)	73	148-1241	1	Gasket
35	505-1526	1	Nipple, Pipe (3/4 x 10.0)	74	802-2537	4	Screw, Cap - Socket Head
36	505-0085	1	Nipple, Pipe (3/4 x 2.00)	75	338-4725-03	1	Harness, Plug
37	307-2886	1	Valve, Solenoid	76	502-0432	1	Fitting, Hose Connector
38	148-1234-02	1	Clamp, Fuel System	77	503-2293-04	1	Hose, Coolant
39	508-1158	1	Grommet	78	503-2089-04	1	Hose

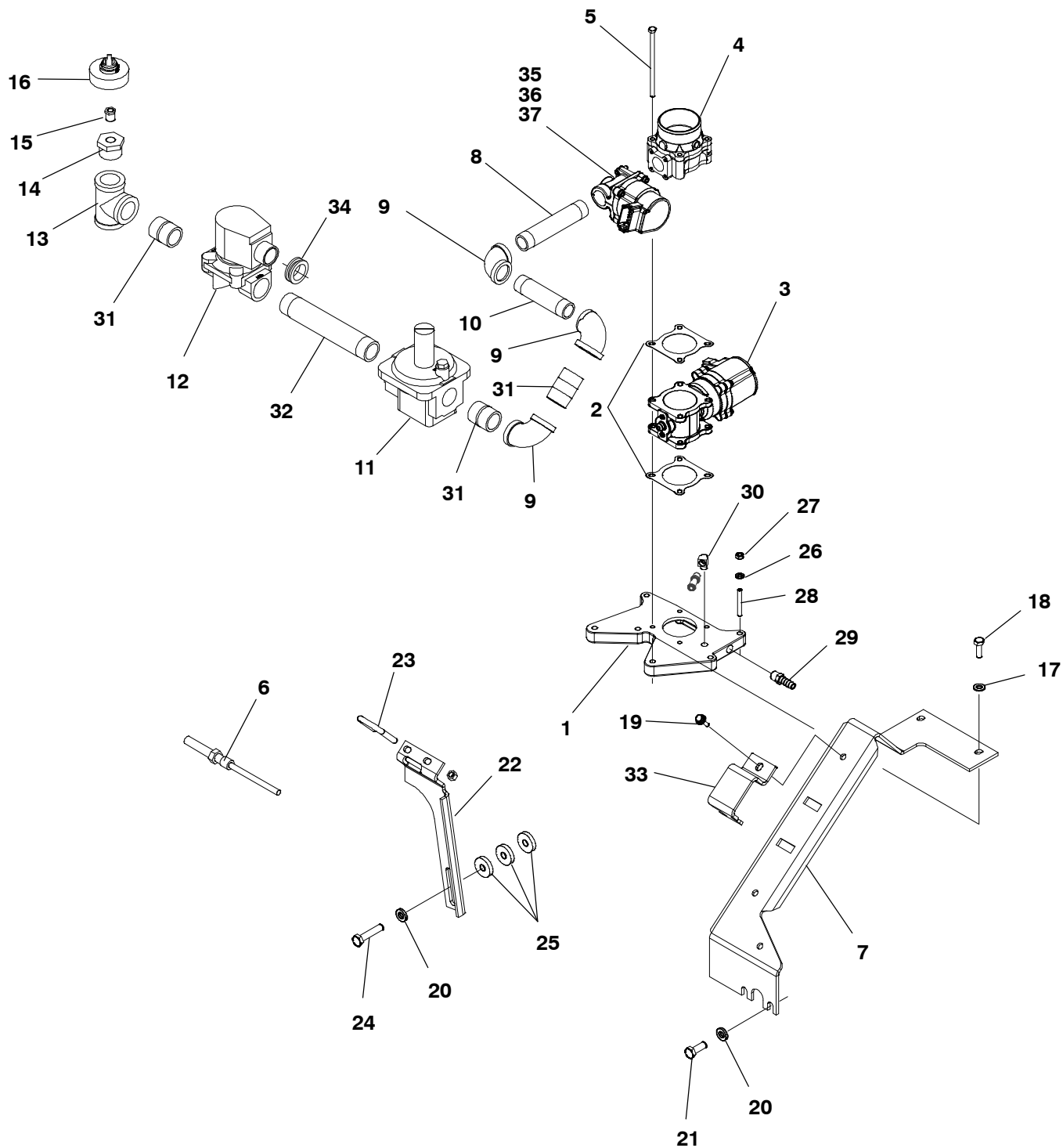
Low Emission Fuel System Natural Gas



Low Emission Fuel System Natural Gas

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	21	505-0007	1	Bushing, Reducer (1/4 x 1/8) – With Low Pressure Switch
2	145-0813	2	Gasket, Throttle Body	22	309-0669-01	1	Switch, Low Pressure
3	150-2808	1	Actuator, Rotary (50mm)	23	526-2100	2	Washer, Flat (M8)
4	148-1200-02	1	Mixer, ITB	24	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)
5	815-1536	4	Screw, Cap – Socket Head (M6 x 1.0 x 110)	25	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)
6	150-2651	1	Pickup, Magnetic	26	526-0174	3	Washer, Flat
7	148-1164-02	1	Bracket, Fuel System – Mounting	27	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
8	505-0341	1	Nipple, Pipe (3/4 x 5.00)	28	148-1247-02	1	Bracket, Fuel System
9	505-0132	1	Elbow, Pipe	29	155-1256	1	Clamp, Muffler
10	505-0337	1	Nipple, Pipe (3/4 x 4.00)	30	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
11	505-0356	1	Elbow (90°)	31	526-0077	3	Washer, Flat (M10)
12	505-0107	1	Nipple, Pipe (1 x 2.00) Without Low Pressure Switch	32	526-2080	4	Washer, Flat (M6)
	505-0107	2	With Low Pressure Switch	33	862-0026-54	4	Nut, Hex (M6)
13	505-0004	1	Pipe, Nipple (1 x 1.50)	34	520-1024	4	Stud (M6)
14	505-0041	1	Elbow, Pipe	35	502-0613	1	Connector, Hose
15	148-1202	1	Regulator	36	502-0020-01	1	Elbow, Pipe
16	505-0091	1	Nipple, Pipe (1 x 7.00)	37	300-5530-02	1	Control
17	148-1090	1	Clamp, Fuel System – Input	38	148-1241	1	Gasket, Mixer
18	307-2890	1	Valve, Solenoid	39	802-2537	4	Screw, Cap – Socket Head
19	505-0304	1	Tee, Pipe – With Low Pressure Switch				
20	505-0802	1	Bushing, Reducer (1 x 1/4) – With Low Pressure Switch				

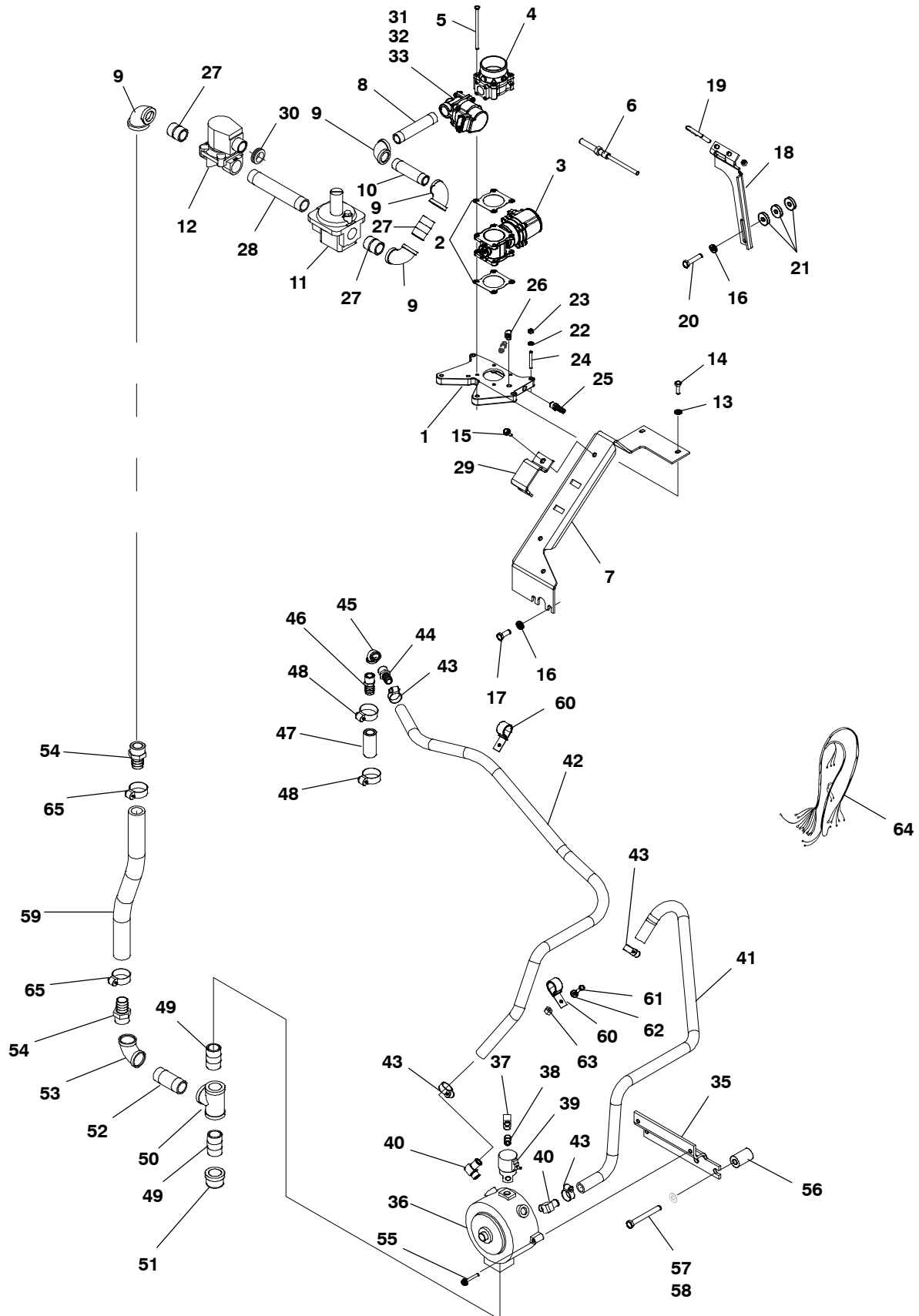
Low Emission Fuel System Propane Vapor



Low Emission Fuel System Propane Vapor

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	19	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)
2	145-0813	2	Gasket, Throttle Body	20	526-0174	3	Washer, Flat
3	150-2808	1	Actuator, Rotary (50mm)	21	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
4	148-1200-02	1	Mixer, ITB	22	148-1247-02	1	Bracket, Fuel System
5	815-1536	4	Screw, Cap – Socket Head (M6 x 1.0 x 110)	23	155-1256	1	Clamp, Muffler
6	150-2651	1	Pickup, Magnetic	24	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
7	148-1164-02	1	Bracket, Fuel System – Mounting	25	526-0393	3	Washer, Flat (M10)
8	505-0341	1	Nipple, Pipe (3/4 x 5.00)	26	526-2080	4	Washer, Flat (M6)
9	505-0132	3	Elbow, Pipe	27	862-0026-54	4	Nut, Hex (M6)
10	505-0337	1	Nipple, Pipe (3/4 x 4.00)	28	520-1024	4	Stud (M6)
11	148-1231	1	Regulator	29	502-0613	1	Connector, Hose
12	307-2930	1	Valve, Solenoid	30	502-0020-01	1	Elbow, Pipe
13	505-0166	1	Tee, Pipe – With Low Pressure Switch	31			Nipple, Pipe (3/4 x 2.00)
14	505-0020	1	Bushing, Reducer (3/4 x 1/4) – With Low Pressure Switch		505-0085	2	Without Low Pressure Switch
15	505-0007	1	Bushing, Reducer (1/4 x 1/8) – With Low Pressure Switch		505-0085	3	With Low Pressure Switch
16	309-0669-01	1	Switch, Low Pressure	32	505-0754	1	Nipple, Pipe (3/4 x 6.00)
17	526-2100	2	Washer, Flat (M8)	33	148-1234-02	1	Clamp, Fuel System
18	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	34	508-1158	1	Grommet
				35	300-5530-02	1	Control
				36	148-1241	1	Gasket, Mixer
				37	802-2537	4	Screw, Cap – Socket Head

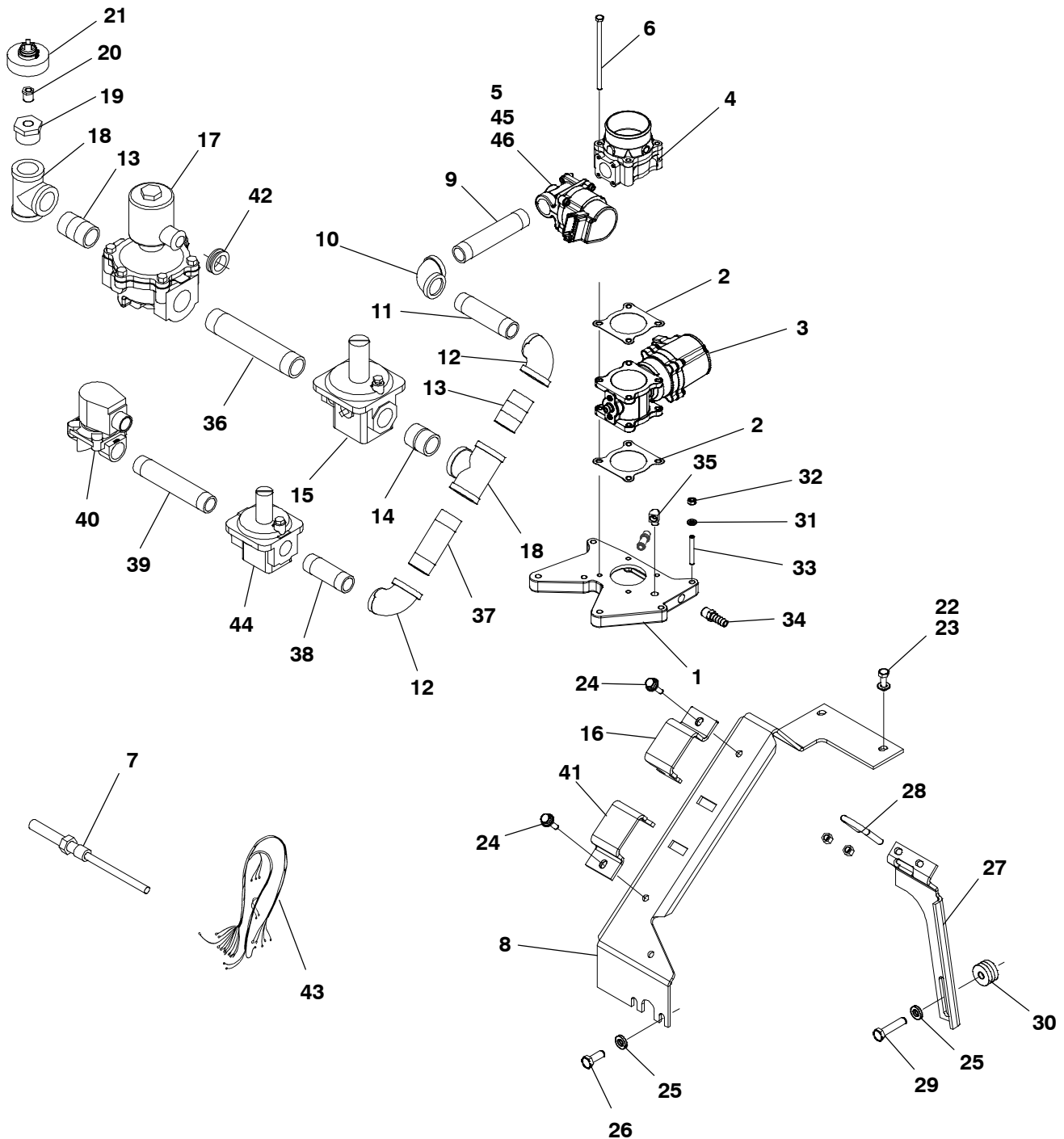
Low Emission Fuel System Propane Liquid



Low Emission Fuel System Propane Liquid

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	34	505-0356	1	Elbow – 90°
2	145-0813	2	Gasket, Throttle Body	35	148-1248-02	1	Bracket, Converter
3	150-2808	1	Actuator, Rotary (50mm)	36	148-1240	1	Converter
4	148-1200-02	1	Mixer, ITB	37	502-0054	1	Elbow, Street Pipe
5	815-1536	4	Screw, Cap – Socket Head (M6 x 1.0 x 110)	38	505-0099	1	Nipple, Pipe (1/4 x .88)
6	150-2651	1	Pickup, Magnetic	39	307-0268	1	Valve, Solenoid
7	148-1164-02	1	Bracket, Fuel System – Mounting	40	502-0942	2	Elbow, 90° Hose
8	505-0341	1	Nipple, Pipe (3/4 x 5.00)	41	503-2293-04	1	Hose, Coolant
9	505-0132	3	Elbow, Pipe	42	503-2293-05	1	Hose, Coolant
10	505-0337	1	Nipple, Pipe (3/4 x 4.00)	43	503-0183	4	Clamp, Hose
11	148-1231	1	Regulator	44	502-1006	1	Connector, Hose (1/2 x 5/8)
12	307-2886	1	Valve, Solenoid	45	505-0040	1	Elbow, Pipe
13	526-2100	2	Washer, Flat (M8)	46	502-0827	1	Hose, Barb
14	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	47	503-0191	–	Hose, Water – Bulk (Order by the Foot – 1 Foot Required)
15	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)	48	503-1870-01	2	Clamp, Hose
16	526-0174	3	Washer, Flat	49	505-0107	2	Nipple, Pipe (1 x 2.00)
17	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	50	505-0304	1	Tee, Pipe
18	148-1247-02	1	Bracket, Fuel System	51	505-0479	1	Cap, Pipe
19	155-1256	1	Clamp, Muffler	52	505-0087	1	Nipple, Pipe (1 x 3.00)
20	718-1067	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)	53	505-0041	1	Elbow, Pipe
21	526-0393	3	Washer, Flat (M10)	54	502-1110-01	2	Connector, Hose
22	526-2080	4	Washer, Flat (M6)	55	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
23	862-0026-54	4	Nut, Hex (M6)	56	130-3660-02	2	Spacer, Shock Absorber – UCD224 Generator
24	520-1024	4	Stud (M6)	57	718-1067	2	Screw, Cap – Hex Head (M10 x 1.5 x 90) – UCD224 Generator
25	502-0613	1	Connector, Hose	58	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45) – UC274 Generator
26	502-0020-01	1	Elbow, Pipe	59	503-2353-01	1	Hose, Fuel
27	505-0085	3	Nipple, Pipe (3/4 x 2.00)	60	332-3196	3	Clamp, J
28	505-0754	1	Nipple, Pipe (3/4 x 6.00)	61	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
29	148-1234-02	1	Clamp, Fuel System	62	526-0018	1	Washer, Flat (1/4)
30	508-1158	1	Grommet	63	750-1004	1	Nut, Hex (M6 x 1)
31	300-5530-02	1	Control	64	338-4395	1	Harness, Jumper
32	148-1241	1	Gasket, Mixer	65	503-2157-02	2	Clamp, Hose
33	802-2537	4	Screw, Cap – Socket Head				

Low Emission Fuel System **Natural Gas / Propane Vapor With Automatic Changeover**

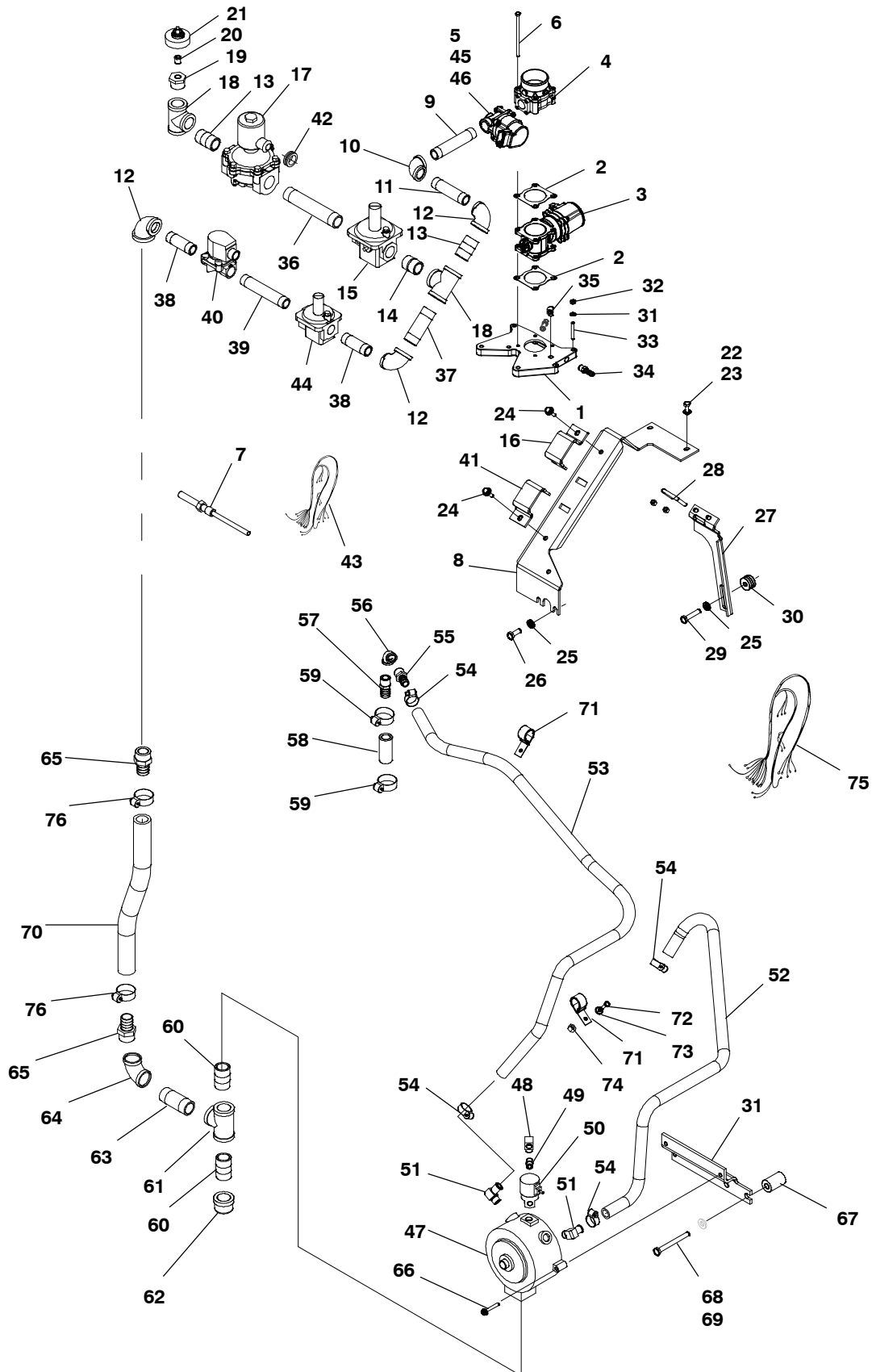


Low Emission Fuel System

Natural Gas / Propane Vapor With Automatic Changeover

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	24	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)
2	145-0813	2	Gasket, Throttle Body	25	526-0174	3	Washer, Flat
3	150-2808	1	Actuator, Rotary (50mm)	26	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
4	148-1200-02	1	Mixer, ITB	27	148-1247-02	1	Bracket, Fuel System
5	300-5530-02	1	Control	28	155-1256	1	Clamp, Muffler
6	815-1536	4	Screw, Cap – Socket Head (M6 x 1.0 x 110)	29	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
7	150-2651	1	Pickup, Magnetic	30	526-0077	3	Washer, Flat (M10)
8	148-1164-02	1	Bracket, Fuel System – Mounting	31	526-2080	4	Washer, Flat (M6)
9	505-0341	1	Nipple, Pipe (3/4 x 5.00)	32	862-0026-54	4	Nut, Hex (M6)
10	505-0132	1	Elbow, Pipe	33	520-1024	4	Stud (M6)
11	505-0337	1	Nipple, Pipe (3/4 x 4.00)	34	502-0613	1	Connector, Hose
12	505-0356	2	Elbow (90°)	35	502-0020-01	1	Elbow, Pipe
13	505-0107	2	Nipple, Pipe (1 x 2.00)	36	505-0492	1	Nipple, Pipe (1 x 6.50)
14	505-0004	1	Nipple, Pipe (1 x 1.50)	37	505-0147	1	Nipple, Pipe (1 x 3.50)
15	148-1202	1	Regulator	38	505-0085	1	Nipple, Pipe (3/4 x 2.00)
16	148-1090	1	Clamp, Fuel System – Input	39	505-0754	1	Nipple, Pipe (3/4 x 6.00)
17	307-2890	1	Valve, Solenoid	40	307-2930	1	Valve, Solenoid
18	505-0304	2	Tee, Pipe	41	148-1234-02	1	Clamp, Fuel System
19	505-0802	1	Bushing, Reducer (1 x 1/4)	42	508-1158	1	Grommet
20	505-0007	1	Bushing, Reducer (1/4 x 1/8)	43	338-3816-01	1	Harness, Dual Fuel
21	309-0669-01	1	Switch, Low Pressure	44	148-1231	1	Regulator
22	526-2100	2	Washer, Flat (M8)	45	148-1241	1	Gasket, Mixer
23	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	46	802-2537	4	Screw, Cap – Socket Head

Low Emission Fuel System **Natural Gas / Propane Liquid With Automatic Changeover**



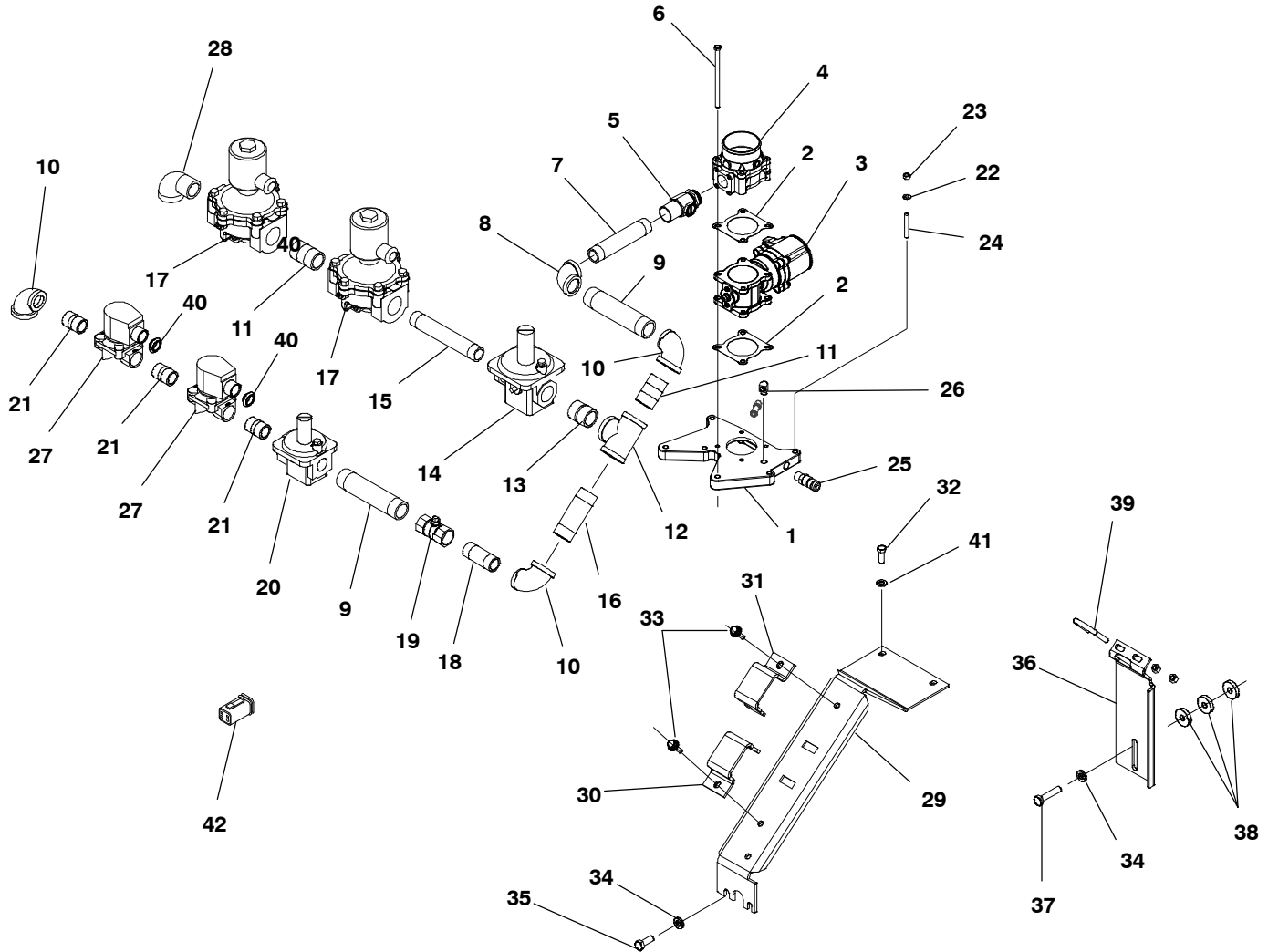
Low Emission Fuel System **Natural Gas / Propane Liquid With Automatic Changeover**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	40	307-2886	1	Valve, Solenoid
2	145-0813	2	Gasket, Throttle Body	41	148-1234-02	1	Clamp, Fuel System
3	150-2808	1	Actuator, Rotary (50mm)	42	508-1158	1	Grommet
4	148-1200-02	1	Mixer, ITB	43	338-3816-01	1	Harness, Dual Fuel
5	300-5530-02	1	Control	44	148-1231	1	Regulator
6	815-1536	4	Screw, Cap – Socket Head (M6 x 1.0 x 110)	45	148-1241	1	Gasket, Mixer
7	150-2651	1	Pickup, Magnetic	46	802-2537	4	Screw, Cap – Socket Head
8	148-1164-02	1	Bracket, Fuel System – Mounting	47	148-1240	1	Converter
9	505-0341	1	Nipple, Pipe (3/4 x 5.00)	48	502-0054	1	Elbow, Street Pipe
10	505-0132	1	Elbow, Pipe	49	505-0099	1	Nipple, Pipe (1/4 x .88)
11	505-0337	1	Nipple, Pipe (3/4 x 4.00)	50	307-0268	1	Valve, Solenoid
12	505-0356	3	Elbow (90°)	51	502-0942	2	Elbow, 90° Hose
13	505-0107	2	Nipple, Pipe (1 x 2.00)	52	503-2293-04	1	Hose, Coolant
14	505-0004	1	Nipple, Pipe (1 x 1.50)	53	503-2293-05	1	Hose, Coolant
15	148-1202	1	Regulator	54	503-0183	4	Clamp, Hose
16	148-1090	1	Clamp, Fuel System – Input	55	502-1006	1	Connector, Hose (1/2 x 5/8)
17	307-2890	1	Valve, Solenoid	56	505-0040	1	Elbow, Pipe
18	505-0304	2	Tee, Pipe	57	502-0827	1	Hose, Barb
19	505-0802	1	Bushing, Reducer (1 x 1/4)	58	503-0191	–	Hose, Water – Bulk (Order by the Foot – 1 Foot Required)
20	505-0007	1	Bushing, Reducer (1/4 x 1/8)	59	503-1870-01	2	Clamp, Hose
21	309-0669-01	1	Switch, Low Pressure	60	505-0107	2	Nipple, Pipe (1 x 2.00)
22	526-2100	2	Washer, Flat (M8)	61	505-0304	1	Tee, Pipe
23	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	62	505-0479	1	Cap, Pipe
24	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)	63	505-0087	1	Nipple, Pipe (1 x 3.00)
25	526-0174	3	Washer, Flat	64	505-0041	1	Elbow, Pipe
26	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	65	502-1110-01	2	Connector, Hose
27	148-1247-02	1	Bracket, Fuel System	66	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
28	155-1256	1	Clamp, Muffler	67	130-3660-02	2	Spacer, Shock Absorber – UCD224 Generator
29	718-1067	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)	68	718-1067	2	Screw, Cap – Hex Head (M10 x 1.5 x 90) – UCD224 Generator
30	526-0077	3	Washer, Flat (M10)	69	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45) – UC274 Generator
31	526-2080	4	Washer, Flat (M6)	70	503-2353-01	1	Hose, Fuel
32	862-0026-54	4	Nut, Hex (M6)	71	332-3196	3	Clamp, J
33	520-1024	4	Stud (M6)	72	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
34	502-0613	1	Connector, Hose	73	526-0018	1	Washer, Flat (1/4)
35	502-0020-01	1	Elbow, Pipe	74	750-1004	1	Nut, Hex (M6 x 1)
36	505-0492	1	Nipple, Pipe (1 x 6.50)	75	338-4395	1	Harness, Jumper
37	505-0147	1	Nipple, Pipe (1 x 3.50)	76	503-2157-02	2	Clamp, Hose
38	505-0085	2	Nipple, Pipe (3/4 x 2.00)				
39	505-0754	1	Nipple, Pipe (3/4 x 6.00)				

Fuel System

Dual Fuel – Natural Gas / Propane Vapor

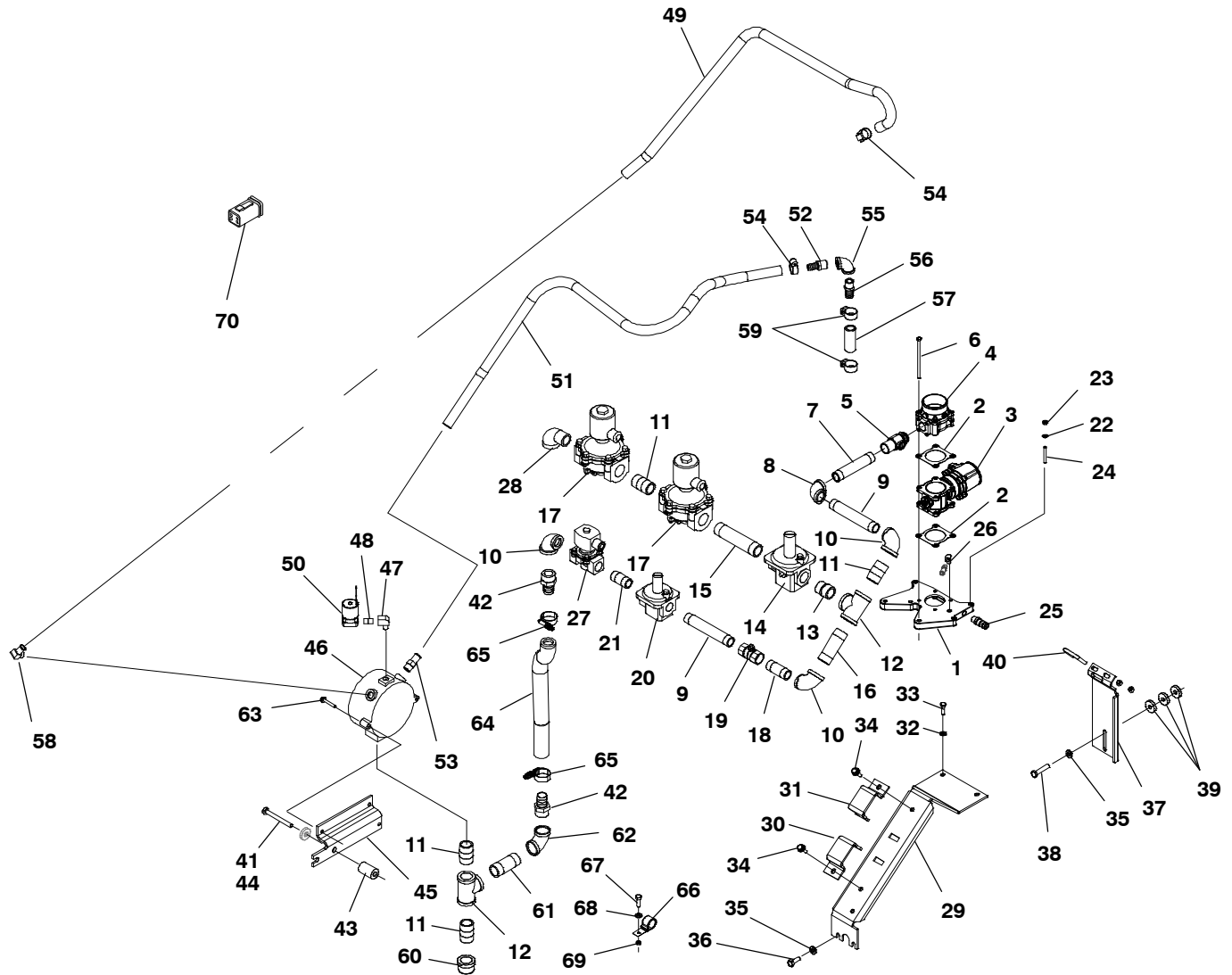
Begin Spec F



Fuel System
Dual Fuel – Natural Gas / Propane Vapor
Begin Spec F

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	24	520-1024	4	Stud (M6)
2	145-0813	2	Gasket, Throttle Body	25	502-0613	1	Adapter, Hose
3	150-2808	1	Actuator, Rotary (50mm)	26	502-0020-01	1	Elbow, Pipe
4	148-1200-02	1	Mixer, ITB	27	307-2930	2	Valve, Solenoid
5	504-0210	1	Valve, Fuel	28	505-0003	1	Elbow, Street – 90°
6	815-1536	4	Screw, Cap – Socket Head (M6 x 1.0 x 110)	29	148-1338-02	1	Bracket, Fuel System
7	505-0341	1	Nipple, Pipe (3/4 x 5.00)	30	148-1234-02	1	Clamp, Fuel System – Natural Gas
8	505-0132	1	Elbow, Pipe	31	148-1090	1	Clamp, Fuel System
9	505-0754	2	Nipple, Pipe (3/4 x 6.00)	32	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)
10	505-0356	3	Elbow – 90°	33	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)
11	505-0107	2	Nipple, Pipe (1 x 2.00)	34	526-0174	3	Washer, Flat
12	505-0304	1	Tee, Pipe	35	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
13	505-0004	1	Nipple, Pipe (1 x 1.50)	36	148-1339-02	1	Bracket, Fuel System
14	148-1202	1	Regulator, Fuel	37	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
15	505-0357	1	Nipple, Pipe (1 x 5.50)	38	526-0077	3	Washer, Flat (3/8)
16	505-0147	1	Nipple, Pipe (1 x 3.50)	39	155-1256	1	Clamp, Muffler
17	307-2890	2	Valve, Solenoid	40	508-1158	2	Grommet
18	505-0084	1	Nipple, Pipe (3/4 x 2.50)	41	526-2100	2	Washer, Flat (M8)
19	504-0171	1	Valve, Shut Off	42	338-4725-03	1	Harness, Plug – Fuel Select
20	148-1231	1	Regulator				
21	505-0102	3	Nipple, Pipe (3/4 x 1.38)				
22	526-2080	4	Washer, Flat (M6)				
23	862-0026-54	4	Nut, Hex (M6 x 1)				

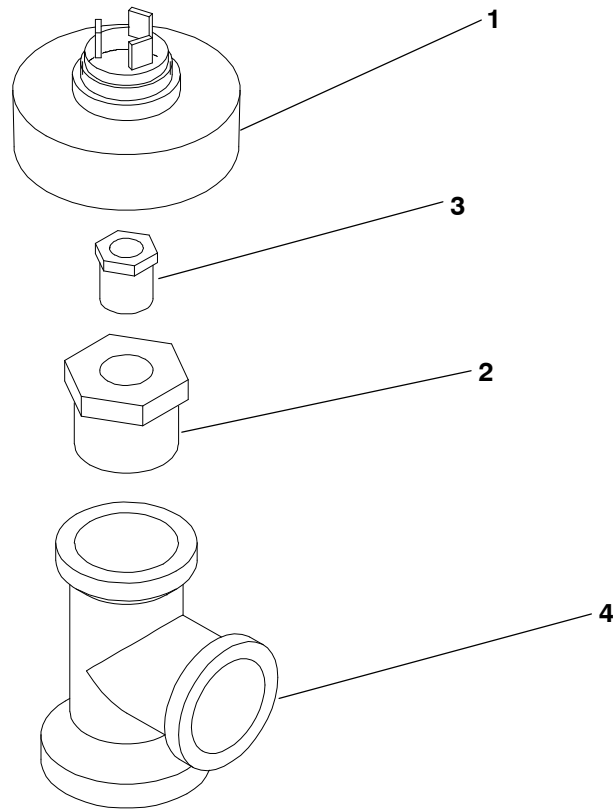
Fuel System **Dual Fuel – Natural Gas / Propane Liquid** **Begin Spec F**



Fuel System
Dual Fuel – Natural Gas / Propane Liquid
Begin Spec F

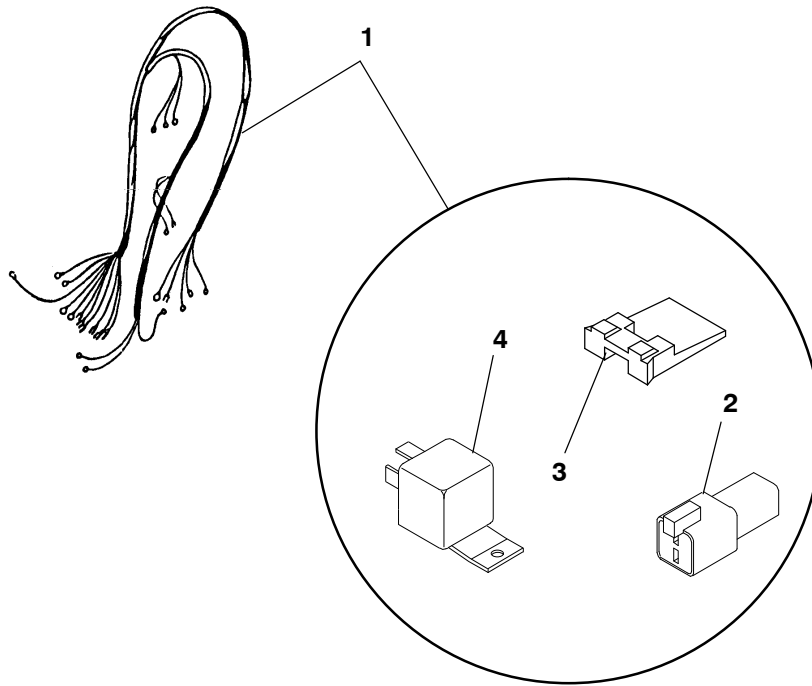
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	37	148-1339-02	1	Bracket, Fuel System
2	145-0813	2	Gasket, Throttle Body	38	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
3	150-2808	1	Actuator, Rotary (50mm)	39	526-0077	3	Washer, Flat (3/8)
4	148-1200-02	1	Mixer, ITB	40	155-1256	1	Clamp, Muffler
5	504-0210	1	Valve, Fuel	41	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45) – UC27
6	815-1536	4	Screw, Cap – Socket Head (M6 x 1.0 x 110)	42	502-1110-01	2	Connector, Hose
7	505-0341	1	Nipple, Pipe (3/4 x 5.00)	43	130-3660-02	2	Spacer, Shock Absorber – UC22
8	505-0132	1	Elbow, Pipe	44	718-1067	2	Screw, Cap – Hex Head (M10 x 1.5 x 90) – UC22
9	505-0754	2	Nipple, Pipe (3/4 x 6.00)	45	148-1248-02	1	Bracket, Converter
10	505-0356	3	Elbow – 90°	46	148-1240	1	Converter, LP
11	505-0107	4	Nipple, Pipe (1 x 2.00)	47	502-0054	1	Elbow, Street – Pipe
12	505-0304	2	Tee, Pipe	48	505-0099	1	Nipple, Pipe (1/4 x .88)
13	505-0004	1	Nipple, Pipe (1 x 1.50)	49	503-2293-04	1	Hose, Coolant
14	148-1202	1	Regulator, Fuel	50	307-0268	1	Valve, Solenoid
15	505-0357	1	Nipple, Pipe (1 x 5.50)	51	503-2293-05	1	Hose, Coolant
16	505-0147	1	Nipple, Pipe (1 x 3.50)	52	502-1006	1	Connector, Hose (1/2 x 5/8)
17	307-2890	2	Valve, Solenoid	53	502-0943	1	Connector, Hose (3/8 x 5/8)
18	505-0084	1	Nipple, Pipe (3/4 x 2.50)	54	503-0183	4	Clamp, Hose
19	504-0171	1	Valve, Shut Off	55	505-0040	1	Elbow, Pipe
20	148-1231	1	Regulator	56	502-0827	1	Barb, Hose
21	505-0085	1	Nipple, Pipe (3/4 x 2.00)	57	503-1194	1	Hose
22	526-2080	4	Washer, Flat (M6)	58	502-0942	1	Elbow – 90° (3/8 x 5/8)
23	862-0026-54	4	Nut, Hex (M6 x 1)	59	503-1870-01	2	Clamp, Hose
24	520-1024	4	Stud (M6)	60	505-0479	1	Cap, Pipe (1")
25	502-0613	1	Adapter, Hose	61	505-0087	1	Nipple, Pipe (1 x 3.00)
26	502-0020-01	1	Elbow, Pipe	62	505-0041	1	Elbow, Pipe
27	307-2886	1	Valve, Solenoid	63	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
28	505-0003	1	Elbow, Street – 90°	64	503-2353-03	1	Hose, Fuel – LP
29	148-1338-02	1	Bracket, Fuel System	65	503-2157-02	2	Clamp, Hose
30	148-1234-02	1	Clamp, Fuel System – Natural Gas	66	332-3196	2	Clamp, J
31	148-1090	1	Clamp, Fuel System	67	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
32	526-2100	2	Washer, Flat (M8)	68	526-0018	1	Washer, Flat (1/4)
33	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	69	750-1004	1	Nut, Hex (M6 x 1)
34	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)	70	338-4725-03	1	Harness, Plug – Fuel Select
35	526-0174	3	Washer, Flat				
36	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)				

Low Pressure Switch



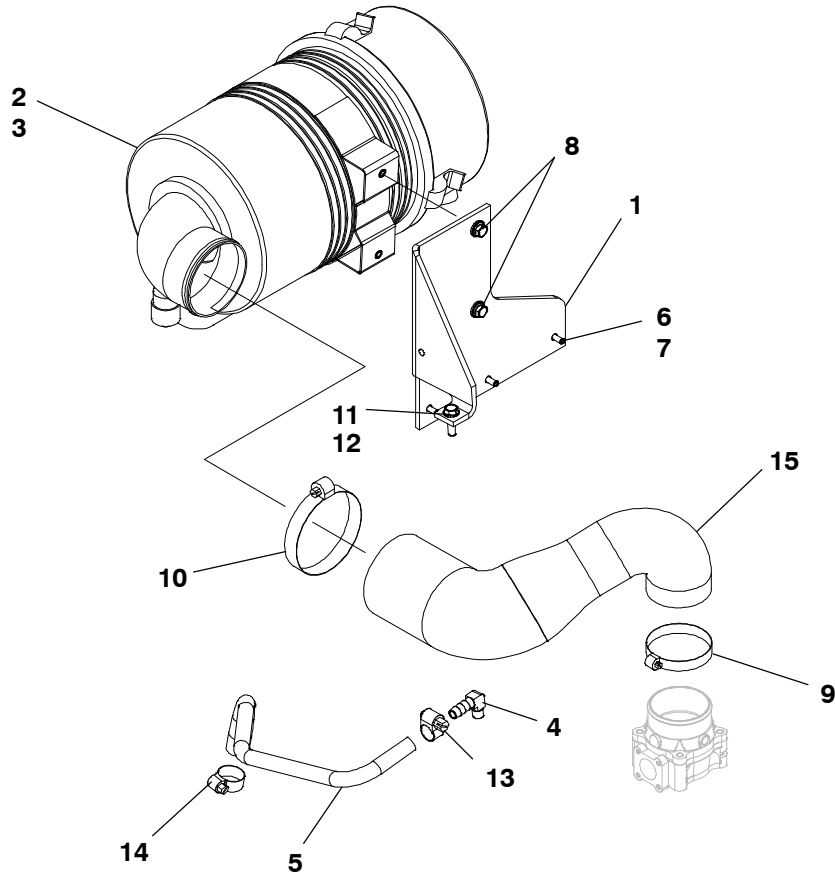
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A040S001	1	Switch, Low Pressure	3	505-0007	1	Bushing, Reducer (1/4 x 1/8)
2	505-0020	1	Bushing, Reducer (3/4 x 1/4)	4	505-2511	1	Tee, Pipe

Alarm Harness Single and Dual Fuel Spec E



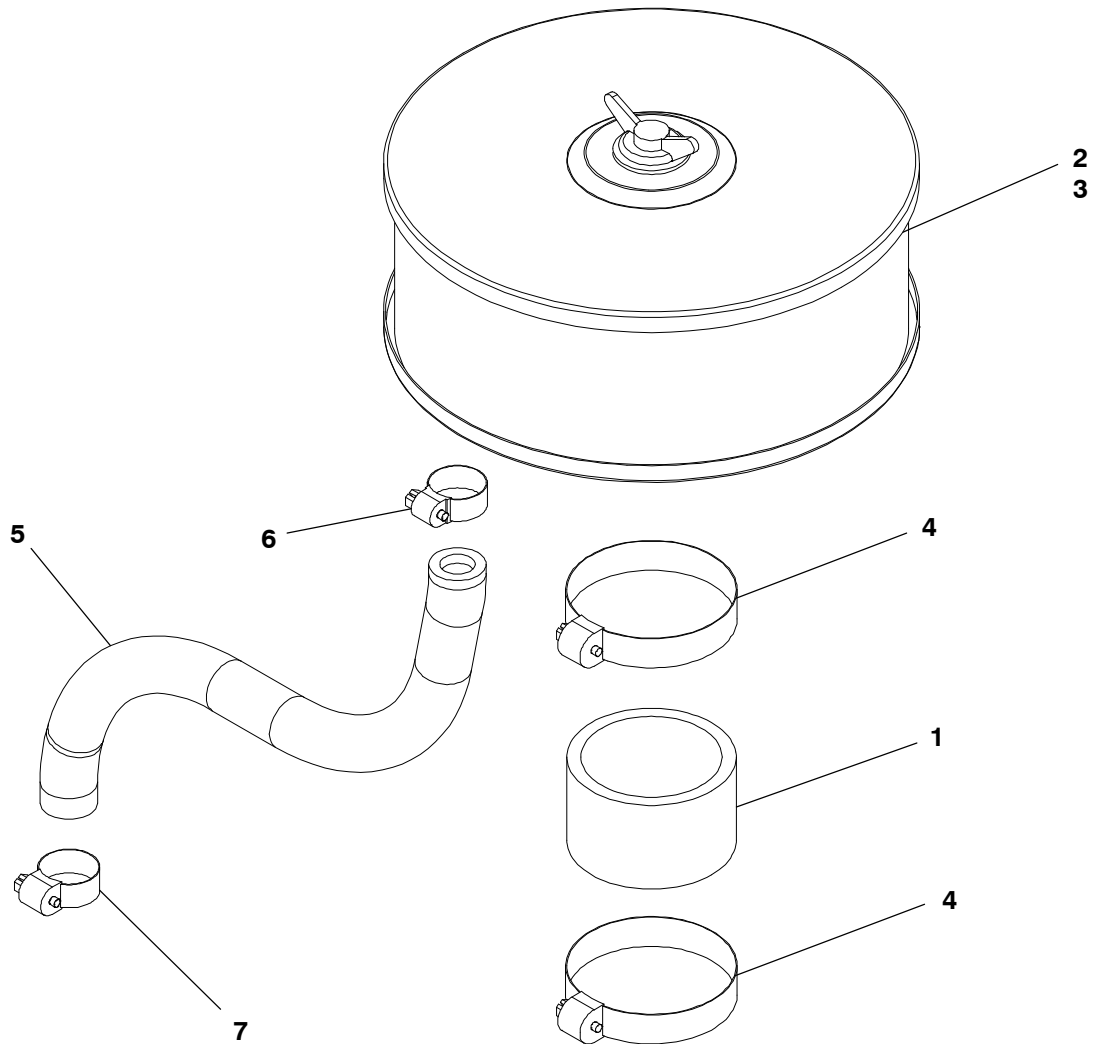
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Alarm (Includes Parts Listed Below)	2	323-1505	1	Connector, Housing
	338-4323	1	Single Fuel	3	323-1501	1	Connector, Wedge
	338-4322	1	Dual Fuel	4	307-2817-01	1	Relay (12 Volt) – Dual Fuel

Air Cleaner Heavy Duty



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3385-02	1	Bracket, Air Cleaner	9	503-1870-05	1	Clamp, Hose
2	140-3297	1	Cleaner, Air	10	503-1870-06	1	Clamp, Hose
3	140-3440	1	Element, Replacement – Air Cleaner	11	526-2100	1	Washer, Flat (M8)
4	502-1353-01	1	Elbow, Pipe – 90°	12	800-2515	1	Screw, Cap – Hex Head (M8 x 1.25 x 30)
5	503-2297	1	Hose, Breather	13	503-0685	1	Clamp, Hose
6	526-0018	3	Washer, Flat (1/4)	14	503-0183	1	Clamp, Hose
7	800-2034	3	Screw, Cap – Hex Head (M6 x 1 x 20)	15	503-2287	1	Hose, Air Cleaner
8	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)				

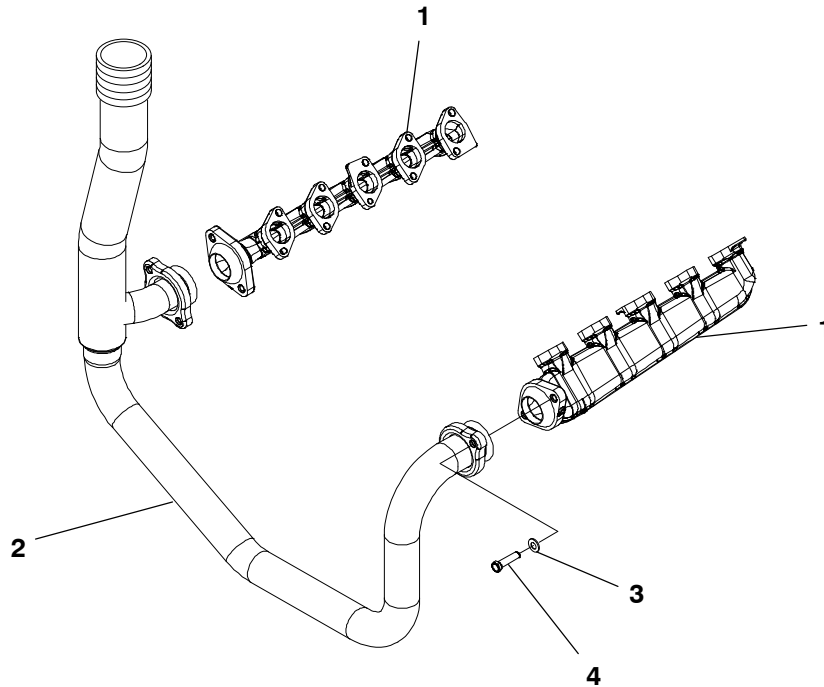
Air Cleaner Normal Duty



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-2254	1	Hose, Air
2	140-3387	1	Cleaner, Air
3	140-3147	1	Element, Replacement
4	503-1870-05	2	Clamp, Hose

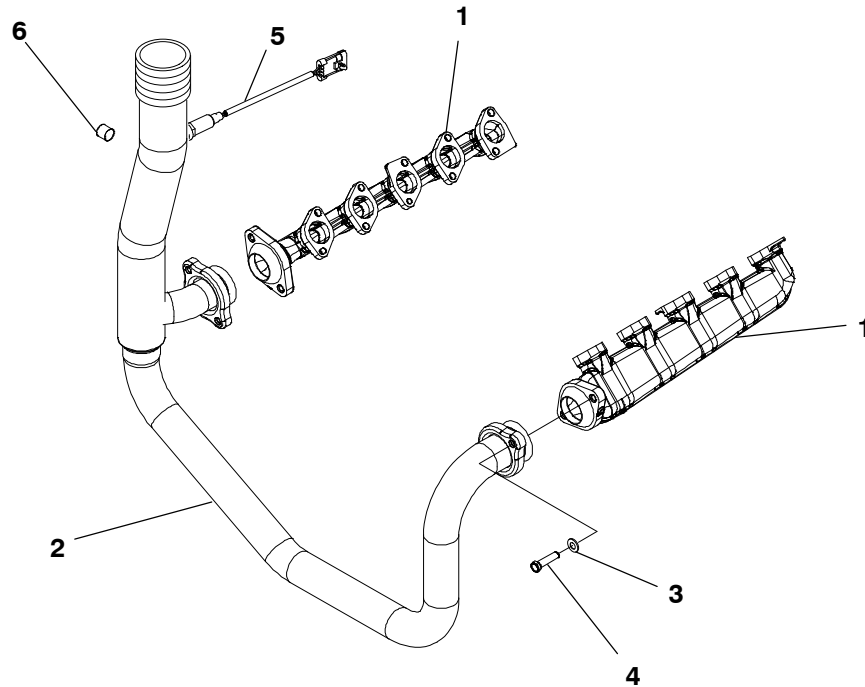
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	503-2303	2	Hose, Breather
6	503-0446	1	Clamp, Hose
7	503-0183	1	Clamp, Hose

Exhaust System With 3" NPT Exhaust Pipe Spec E-G



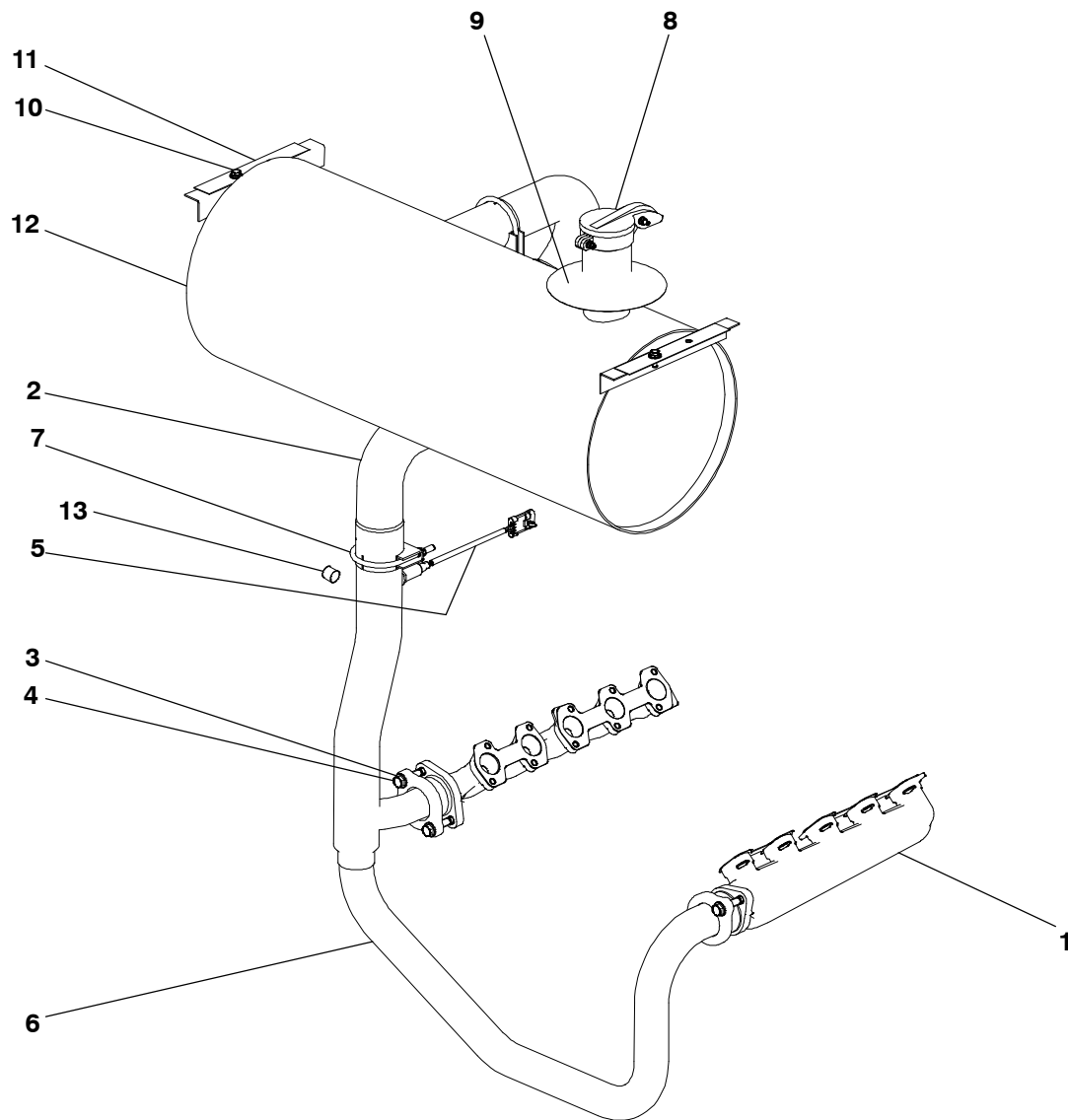
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3094	2	Manifold, Exhaust	4	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)
2	154-3098	1	Tube, Exhaust				
3	526-2140	4	Washer, Flat (M12)				

**Exhaust System
With 3" NPT Exhaust Pipe
Begin Spec H**



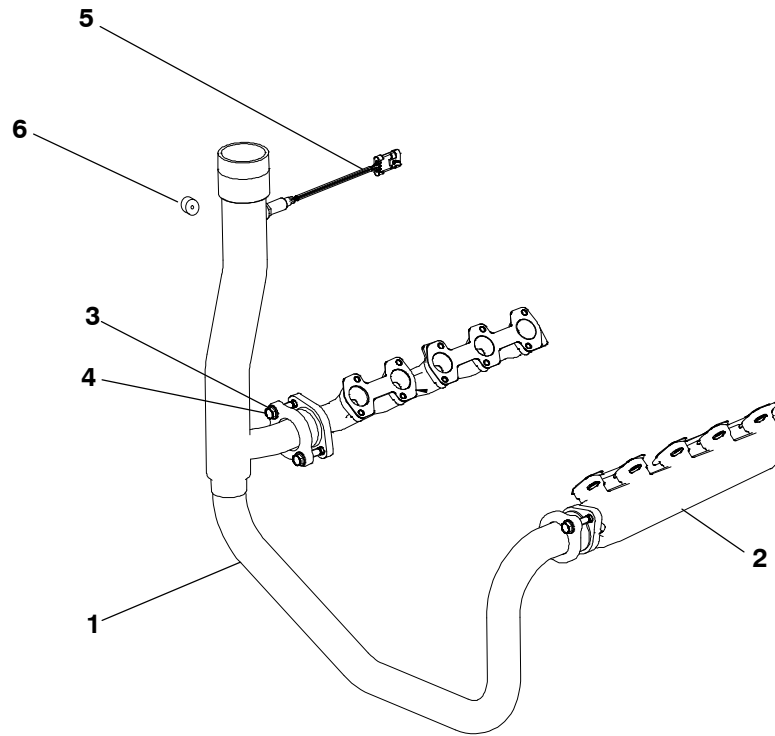
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3094	2	Manifold, Exhaust	5	193-0499	1	Sensor, Oxygen
2	A026G464	1	Tube, Exhaust	6	505-2476	1	Plug, Hole
3	526-2140	4	Washer, Flat (M12)				
4	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)				

Exhaust System – Critical Muffler Begin Spec J



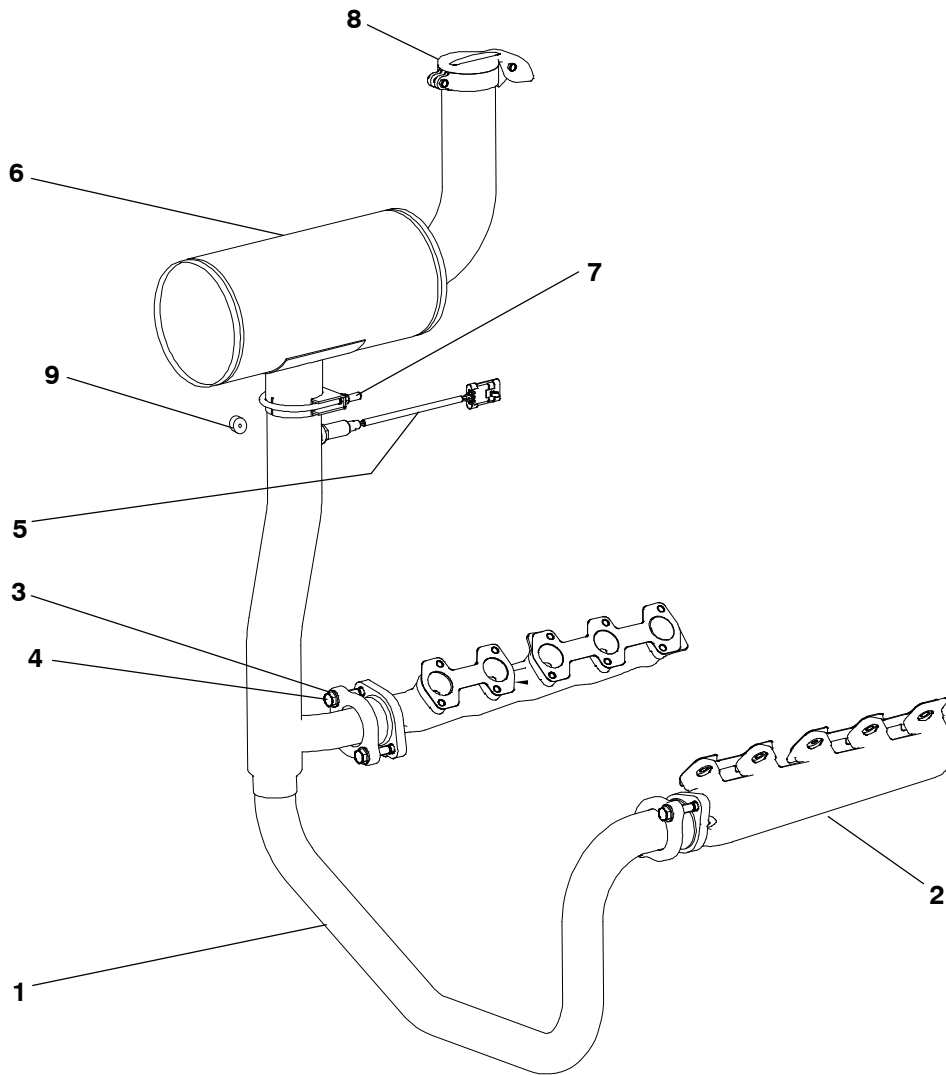
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3094	2	Manifold, Exhaust	8	155-2062-60	1	Cap, Rain
2	154-3048	1	Tube, Exhaust	9	155-3102-02	1	Shield, Rain
3	526-2140	4	Washer, Flat (M12)	10	821-6007-02	2	Screw-Hex Head (M8 x 1.25 x 20)
4	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)	11	155-3219	2	Gasket
5	193-0499	1	Sensor, Oxygen	12	155-3167	1	Silencer, Critical
6	A026G464	1	Tube, Exhaust	13	505-2476	1	Plug, Hole
7	155-2175	2	Clamp				

Exhaust System Begin Spec H



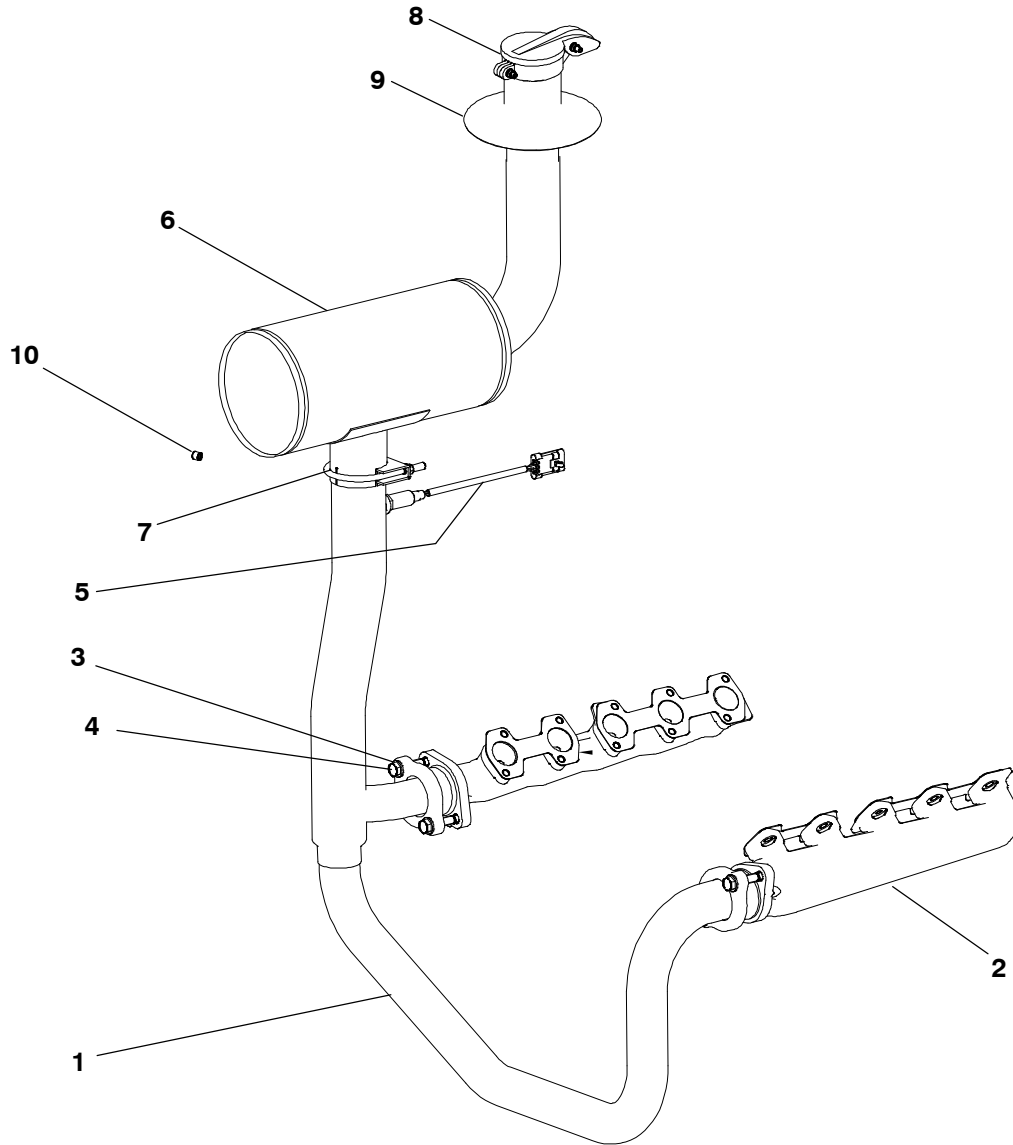
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A026G455	1	Tube, Exhaust	5	193-0499	1	Sensor, Oxygen
2	154-3094	2	Exhaust, Manifold	6	505-2476	1	Plug, Hole
3	526-2140	4	Washer, Flat (M12)				
4	800-2115	4	Screw, Cap - Hex Head (M12 x 1.75 x 45)				

Exhaust System Begin Spec H



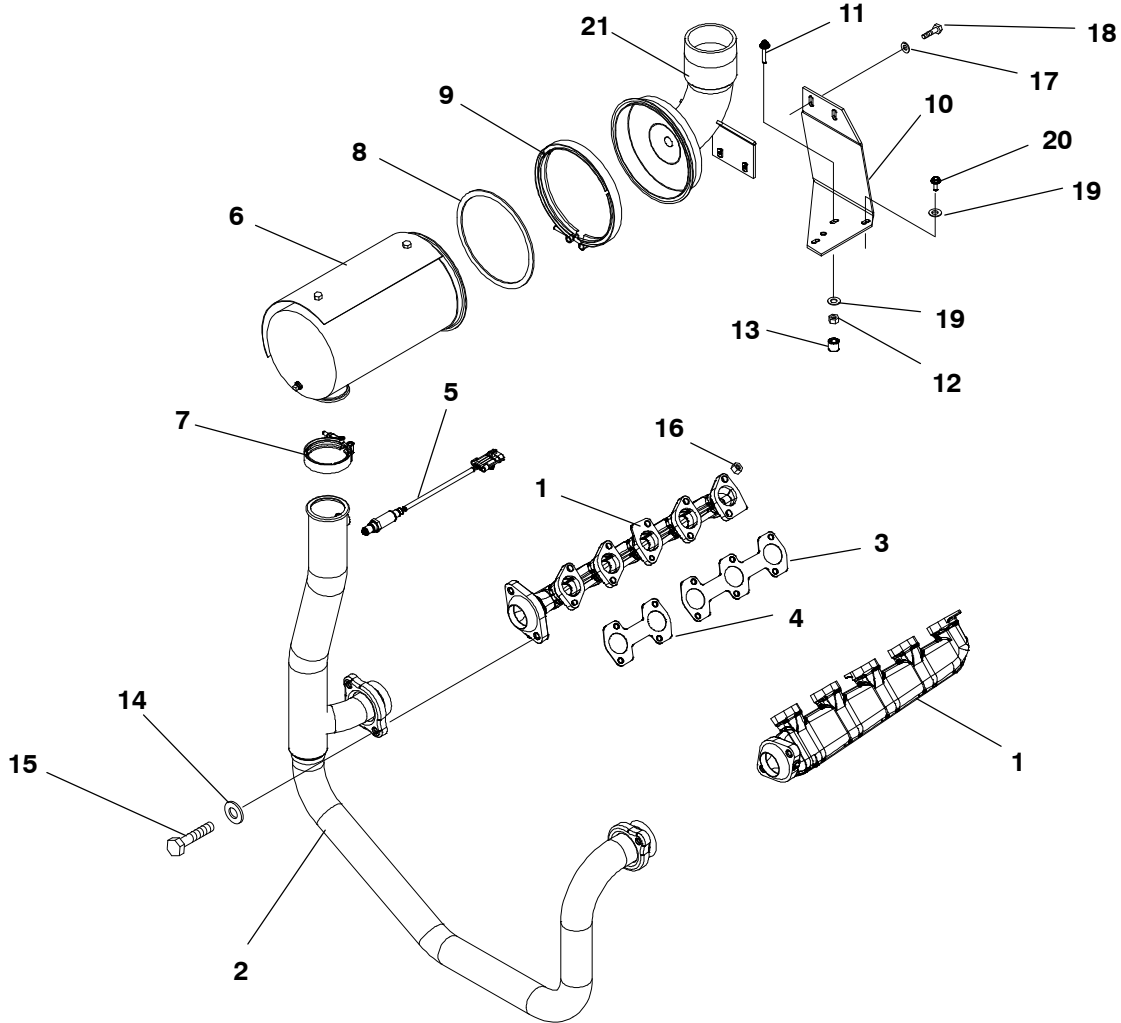
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A026G464	1	Tube, Exhaust	5	193-0499	1	Sensor, Oxygen
2	154-3094	2	Exhaust, Manifold	6	155-3193	1	Silencer
3	526-2140	4	Washer, Flat (M12)	7	155-2175	1	Clamp
4	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)	8	155-2062-53	1	Cap, Rain
				9	505-2476	1	Plug, Hole

Exhaust System – With Muffler Begin Spec J



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A026G464	1	Tube, Exhaust	6	155-3193	1	Silencer
2	154-3094	2	Exhaust, Manifold	7	155-2175	1	Clamp
3	526-2140	4	Washer, Flat (M12)	8	155-2062-60	1	Cap, Rain
4	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)	9	155-3102-02	1	Shield, Rain
5	193-0499	1	Sensor, Oxygen	10	505-2476	1	Plug, Hole

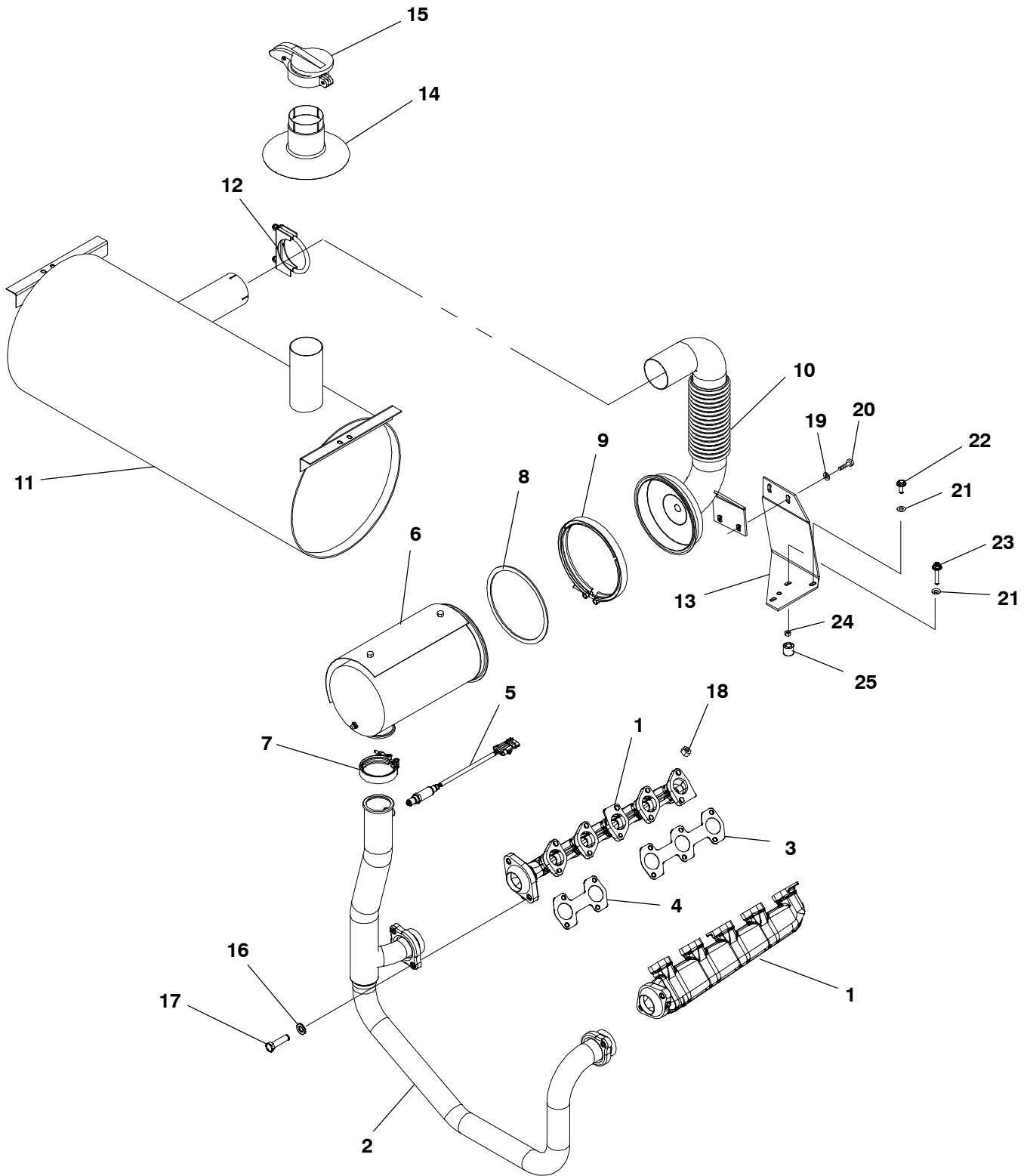
Low Emission Exhaust System With 3" NPT Exhaust Pipe



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3094	2	Manifold, Exhaust	14	526-2140	4	Washer, Flat (M12)
2	155-3566	1	Pipe, Exhaust	15	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)
3	154-3105	2	Gasket, Exhaust Manifold	16	154-3104	20	Nut, Exhaust Manifold (M8 x 1.25)
4	154-3106	2	Gasket, Exhaust Manifold	17	526-0113	2	Washer, Flat (5/16)
5	193-0499	1	Sensor, Oxygen	18	800-2057	2	Screw, Cap – Hex Head (M8 x 1.25 x 20)
6	155-3597-02	1	Converter, Catalytic	19	526-0018	3	Washer, Flat (1/4)
7	155-2565	1	Clamp, V-Band	20	800-2034	2	Screw, Cap – Hex Head (M6 x 1 x 20)
8	155-3588	1	Gasket, Exhaust	21	155-3678	1	Elbow, Exhaust
9	155-3589	1	Clamp, Exhaust				
10	155-3610-02	1	Bracket, Exhaust				
11	520-1024	1	Stud (M6)				
12	862-0026-54	1	Nut (M6 x 1)				
13	155-3649-02	1	Spacer, Muffler				

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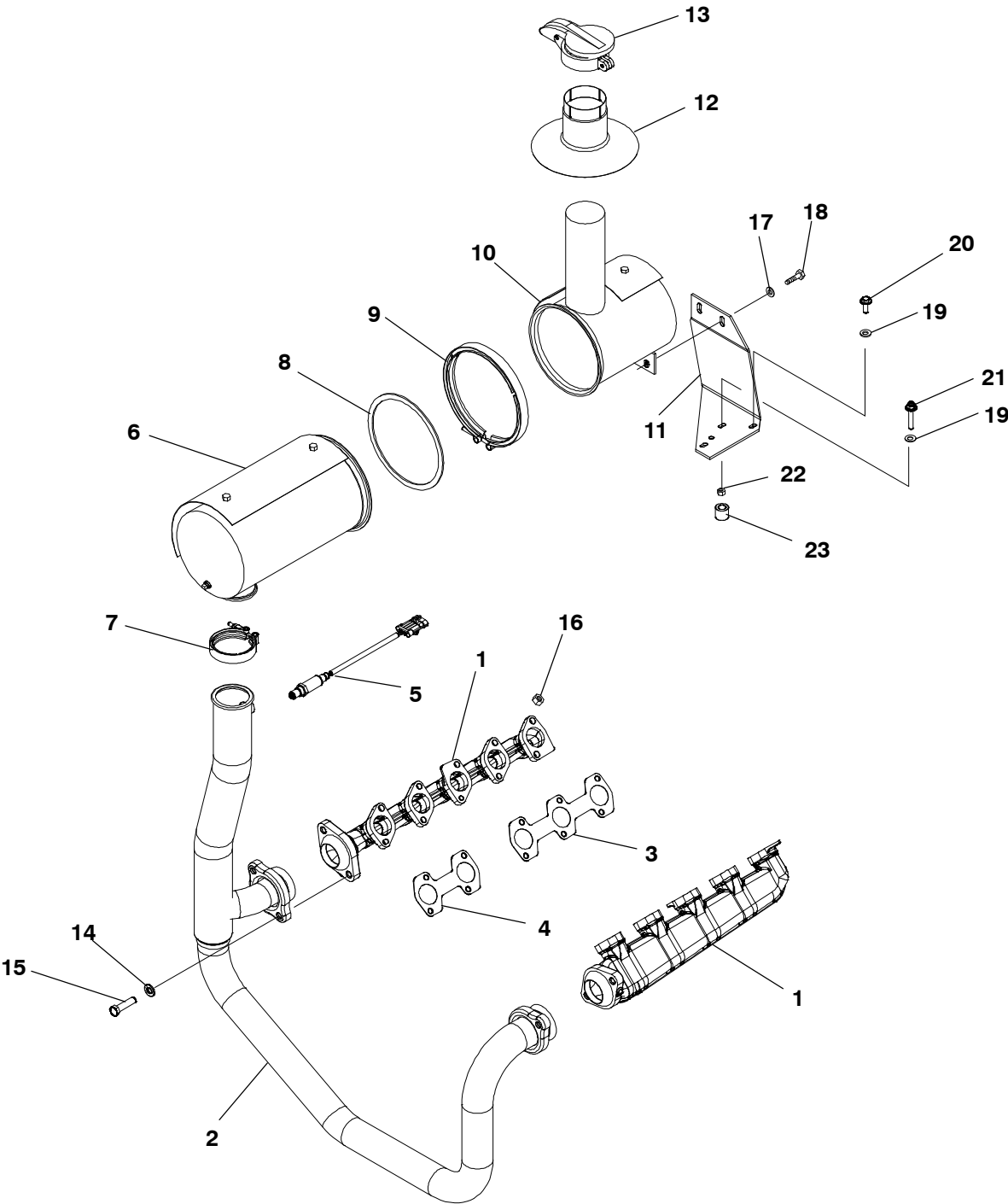
Low Emission Exhaust Critical Muffler For Sound Attenuating Enclosure (F172/F173)



**Low Emission Exhaust
Critical Muffler For Sound Attenuating Enclosure (F172/F173)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3094	2	Manifold, Exhaust	16	526-2140	4	Washer, Flat (M12)
2	155-3566	1	Pipe, Exhaust	17	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)
3	154-3105	2	Gasket, Exhaust Manifold	18	154-3104	20	Nut, Exhaust Manifold (M8 x 1.25)
4	154-3106	2	Gasket, Exhaust Manifold	19	526-0113	2	Washer, Flat (5/16)
5	193-0499	1	Sensor, Oxygen	20	800-2057	2	Screw, Cap – Hex Head (M8 x 1.25 x 20)
6	155-3597-02	1	Convertor, Catalytic	21	526-0018	3	Washer, Flat (1/4)
7	155-2565	1	Clamp, V-Band	22	800-2034	2	Screw, Cap – Hex Head (M6 x 1 x 20)
8	155-3588	1	Gasket, Exhaust	23	520-1024	1	Stud (M6)
9	155-3589	1	Clamp, Exhaust	24	862-0026-54	1	Nut (M6 x 1)
10	155-3567	1	Transition, Exhaust	25	155-3649-02	1	Spacer, Muffler
11	155-3167	1	Muffler				
12	155-2175	1	Clamp, Exhaust				
13	155-3610-02	1	Bracket, Exhaust				
14	155-3102-02	1	Shield, Rain – Unhoused Sets				
15	155-2062-10	1	Cap, Rain				

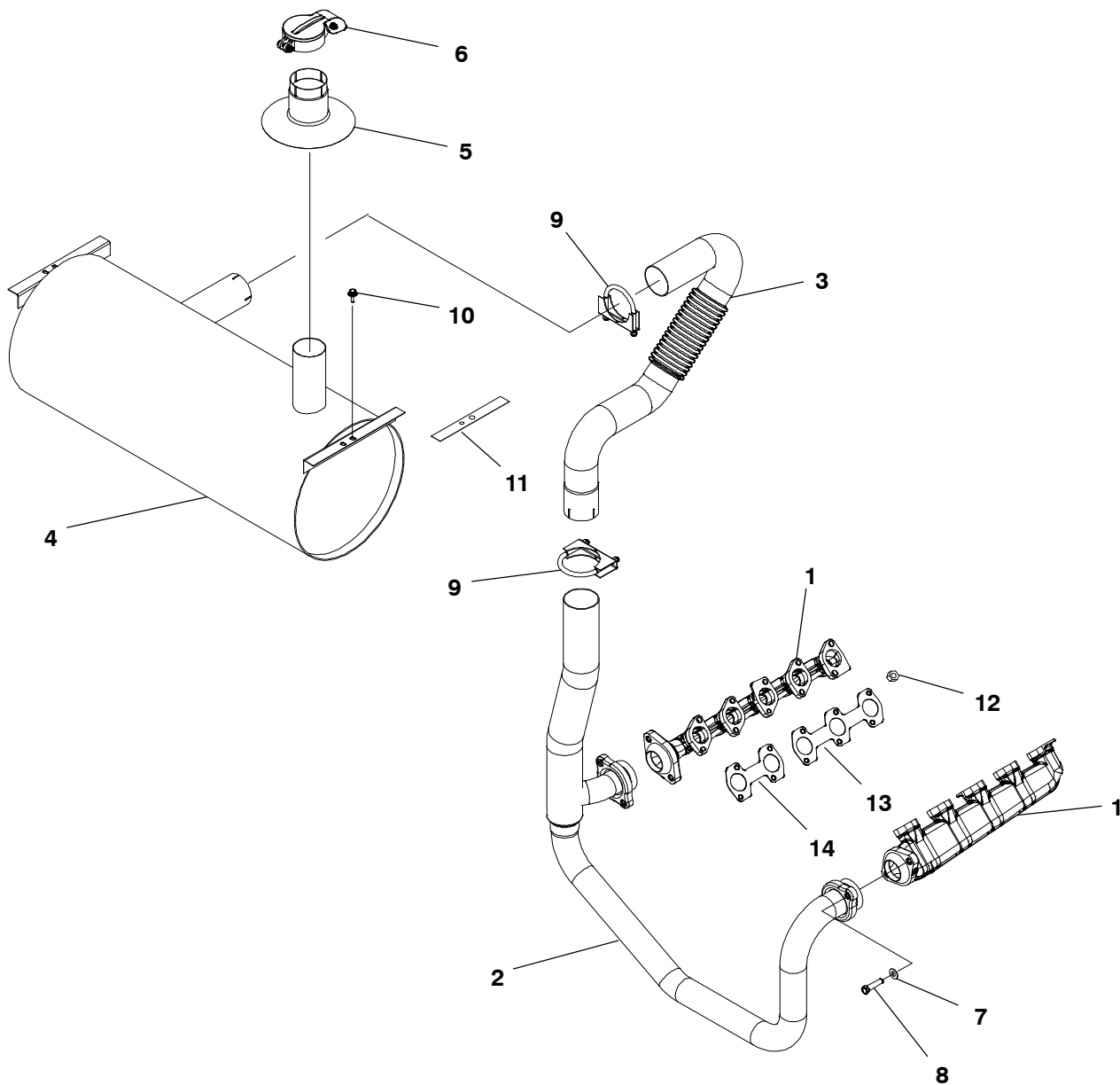
**Low Emission Exhaust
Engine Mounted Muffler (F182)**



Low Emission Exhaust Engine Mounted Muffler (F182)

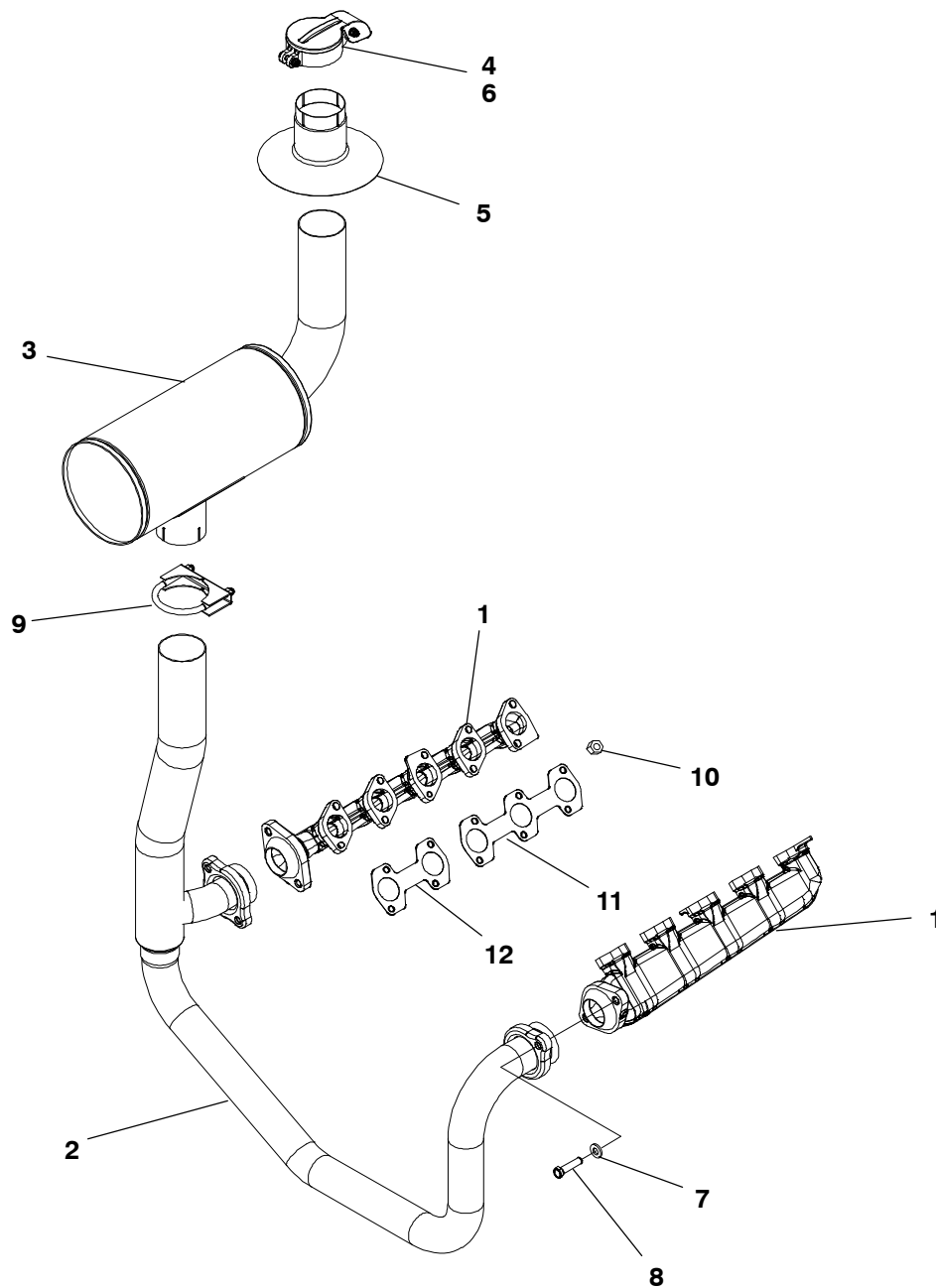
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3094	2	Manifold, Exhaust	15	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)
2	155-3566	1	Pipe, Exhaust	16	154-3104	20	Nut, Exhaust Manifold (M8 x 1.25)
3	154-3105	2	Gasket, Exhaust Manifold	17	526-0113	2	Washer, Flat (5/16)
4	154-3106	2	Gasket, Exhaust Manifold	18	800-2057	2	Screw, Cap – Hex Head (M8 x 1.25 x 20)
5	193-0499	1	Sensor, Oxygen	19	526-0018	3	Washer, Flat (1/4)
6	155-3597-02	1	Convertor, Catalytic	20	800-2034	2	Screw, Cap – Hex Head (M6 x 1 x 20)
7	155-2565	1	Clamp, V-Band	21	520-1024	1	Stud (M6)
8	155-3588	1	Gasket, Exhaust	22	862-0026-54	1	Nut (M6 x 1)
9	155-3589	1	Clamp, Exhaust	23	155-3649-02	1	Spacer, Muffler
10	155-3570	1	Muffler				
11	155-3610-02	1	Bracket, Exhaust				
12	155-3102-02	1	Shield, Rain – Unhoused Sets				
13			Cap, Rain				
	155-2062-10	1	Unhoused Sets				
	155-2062-03	1	F182 Housing				
14	526-2140	4	Washer, Flat (M12)				

(F172 / F173)



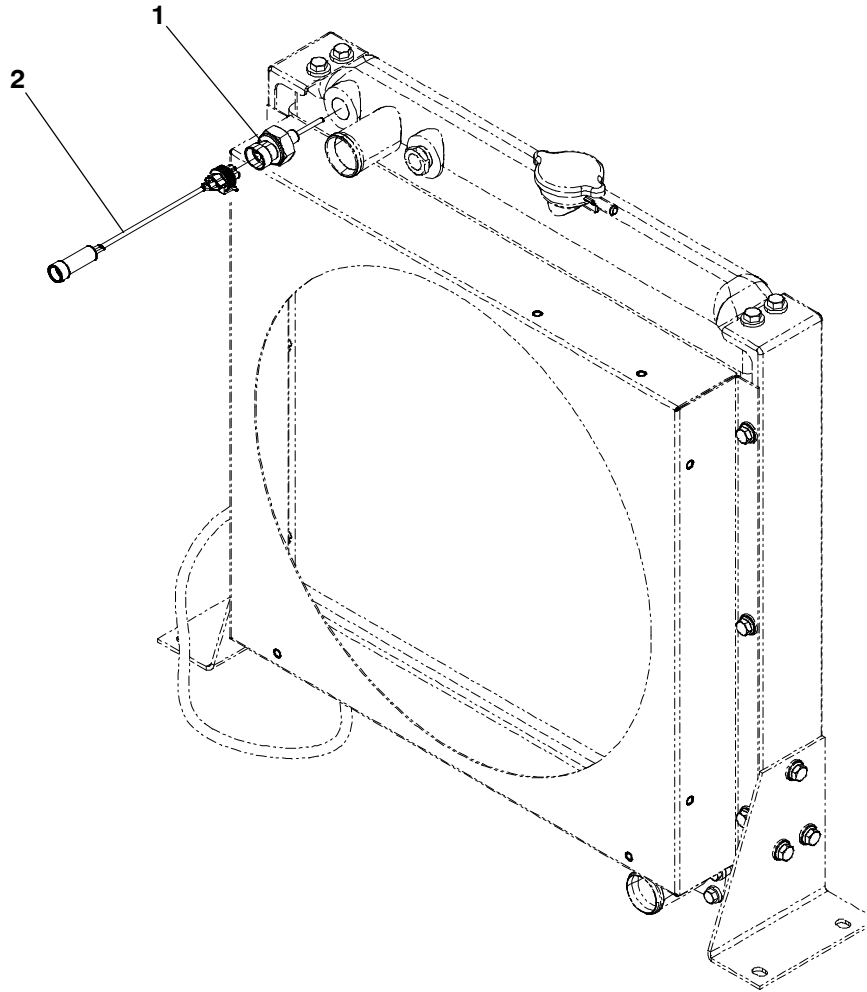
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3094	2	Manifold, Exhaust	9	155-2175	2	Clamp, Muffler (3.00")
2	154-3099	1	Tube, Exhaust	10	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)
3	154-3048	1	Tube, Exhaust	11	155-3219	2	Gasket, Exhaust
4	155-3167	1	Silencer	12	154-3104	20	Nut, Hex (M8 x 1.25)
5	155-3102-02	1	Shield, Rain	13	154-3105	2	Gasket, Exhaust Manifold
6	155-2062-60	1	Cap, Rain	14	154-3106	2	Gasket, Exhaust Manifold
7	526-2140	4	Washer, Flat (M12)				
8	800-2115	4	Screw, Cap - Hex Head (M12 x 1.75 x 45)				

Engine Mounted Muffler (F182)



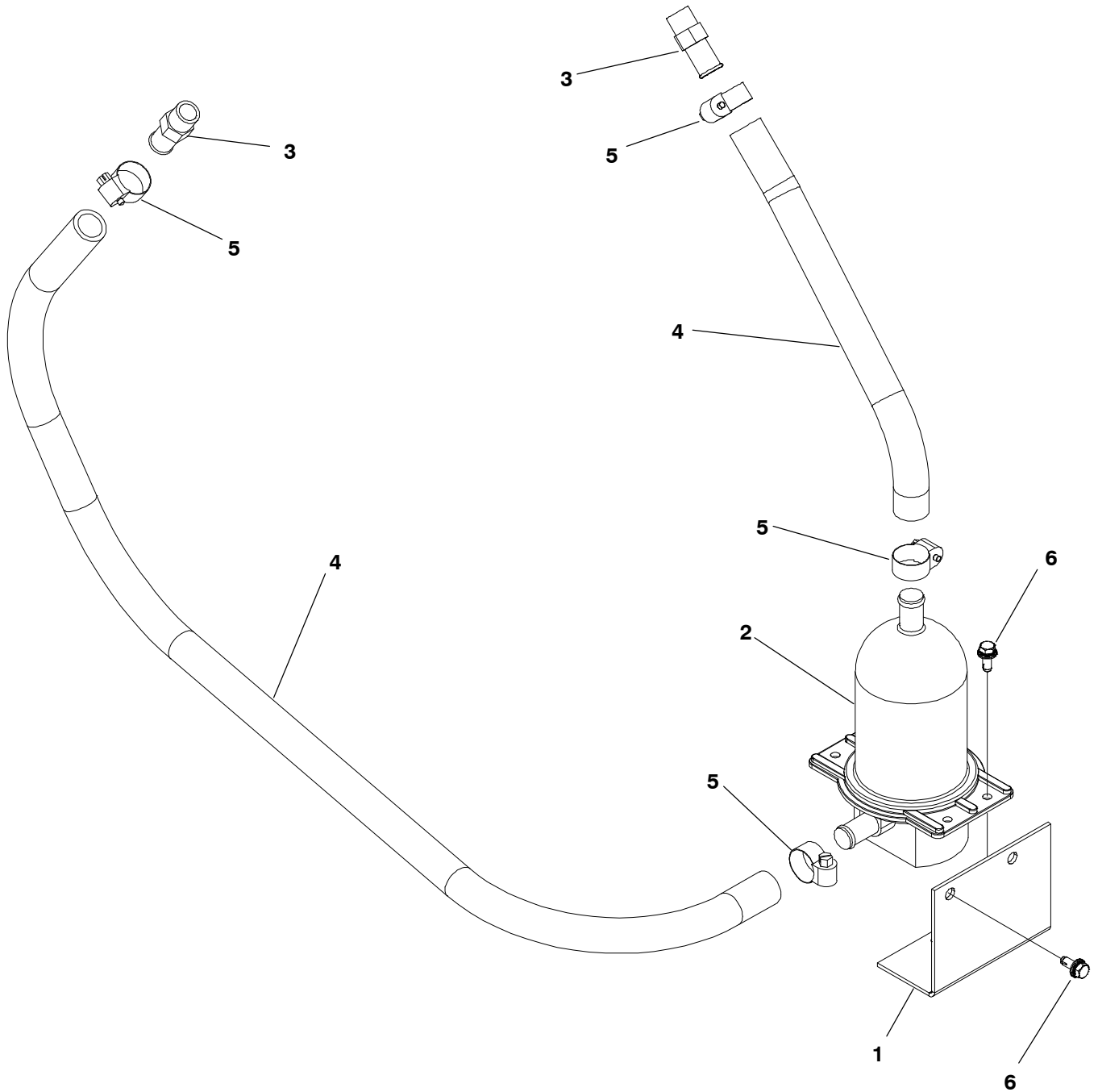
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3094	2	Manifold, Exhaust	8	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)
2	154-3099	1	Tube, Exhaust	9	155-2175	1	Clamp, Muffler (3.00")
3	155-3193	1	Silencer	10	154-3104	20	Nut, Hex (M8 x 1.25)
4	155-2062-03	1	Cap, Rain (Housed Sets)	11	154-3105	2	Gasket, Exhaust Manifold
5	155-3102-02	1	Shield, Rain (Unhoused Sets)	12	154-3106	2	Gasket, Exhaust Manifold
6	155-2062-60	1	Cap, Rain (Unhoused Sets)				
7	526-2140	4	Washer, Flat (M12)				

Low Coolant Level Sender



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A028Z105	1	Sender, Low Coolant Level	2	A029L465	1	Harness, Wiring

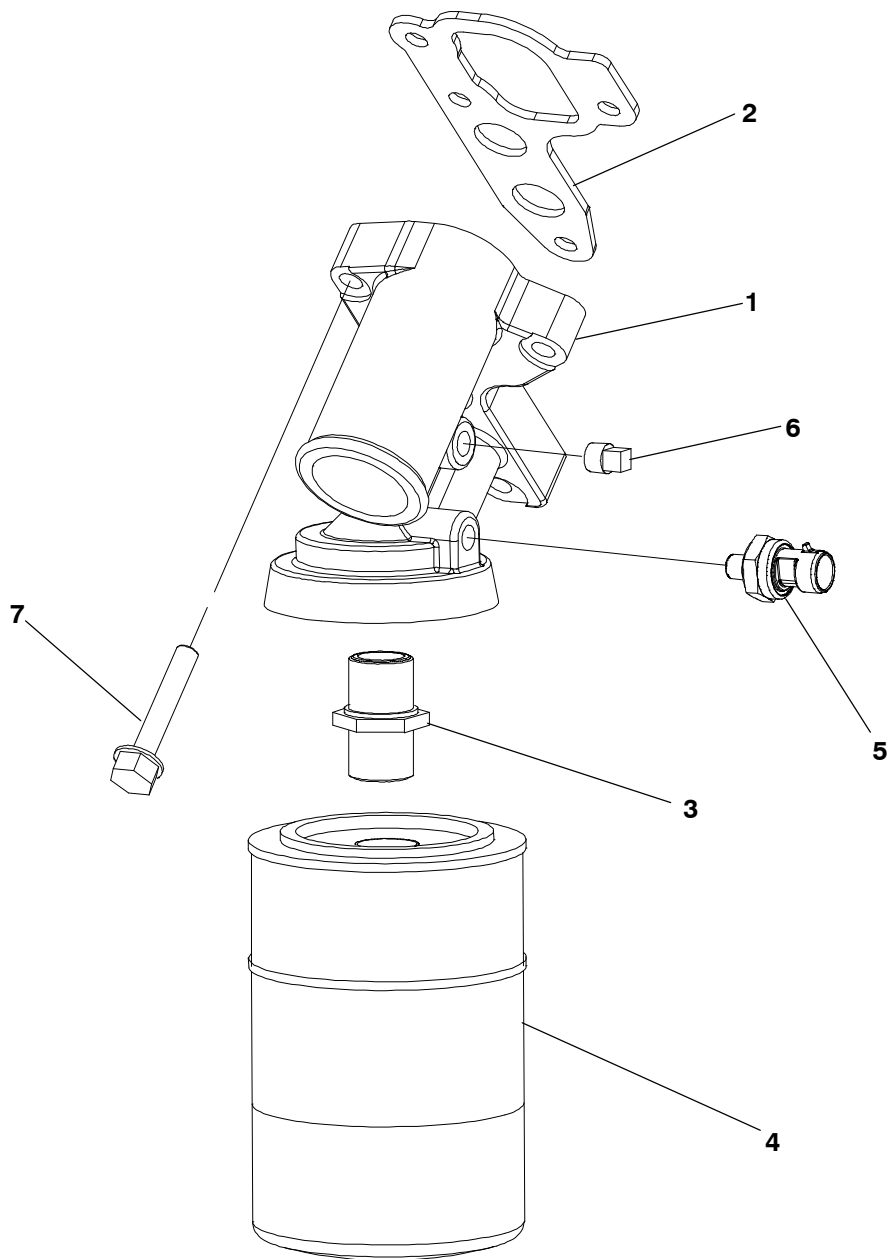
Coolant Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0616	1	Bracket, Mounting
2	333-0588-03	1	Heater, Engine Coolant 120V
	333-0588-04	1	240V
3	502-0943	2	Connector, Hose

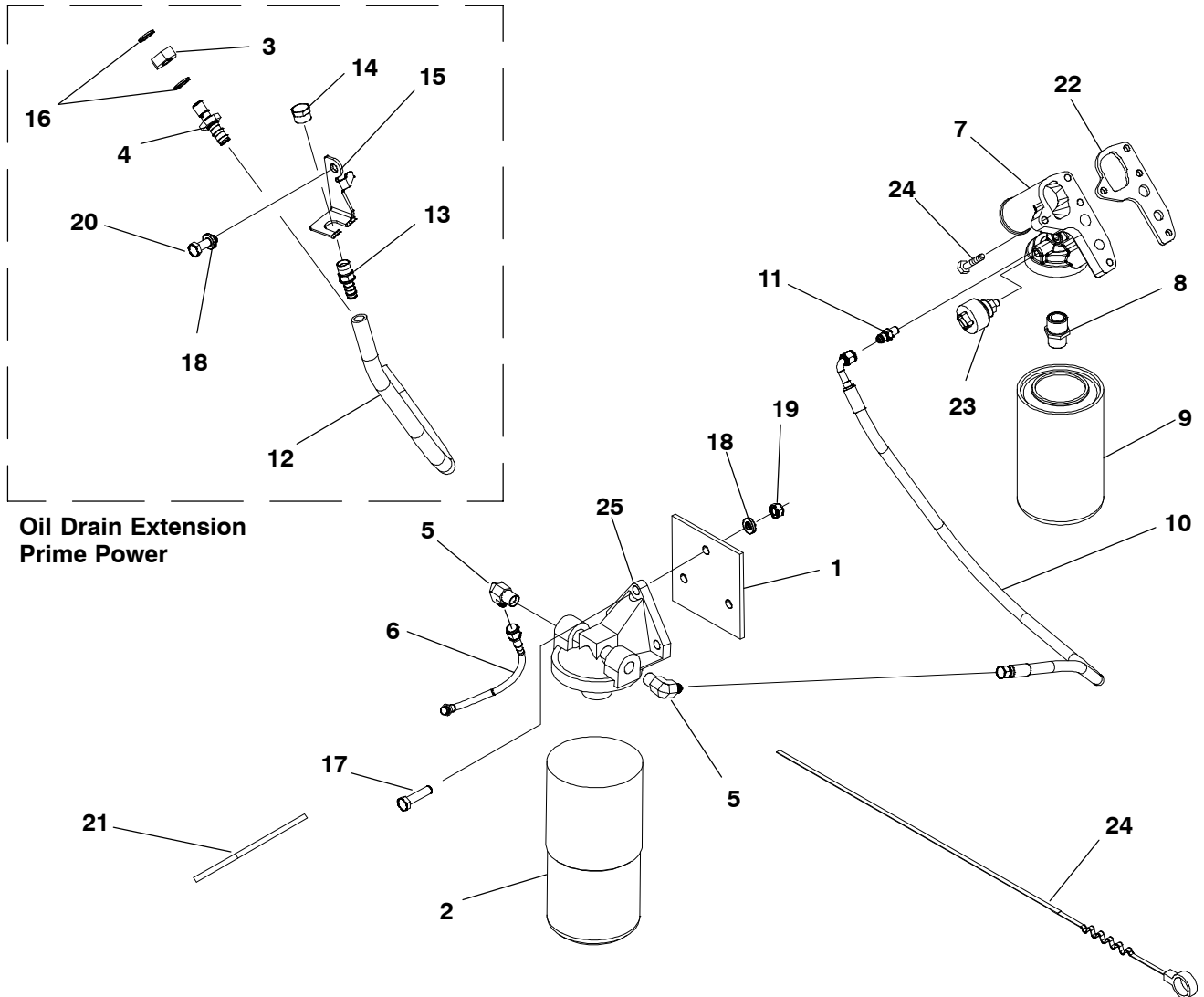
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	503-0386	-	Hose, Heater - Bulk (Order by the Foot - 5 Feet Required)
5	503-0183	4	Clamp, Hose
6	821-6006-01	4	Screw, Hex Head (M6 x 1 x 16)

Oil Filter (Except Prime Power)



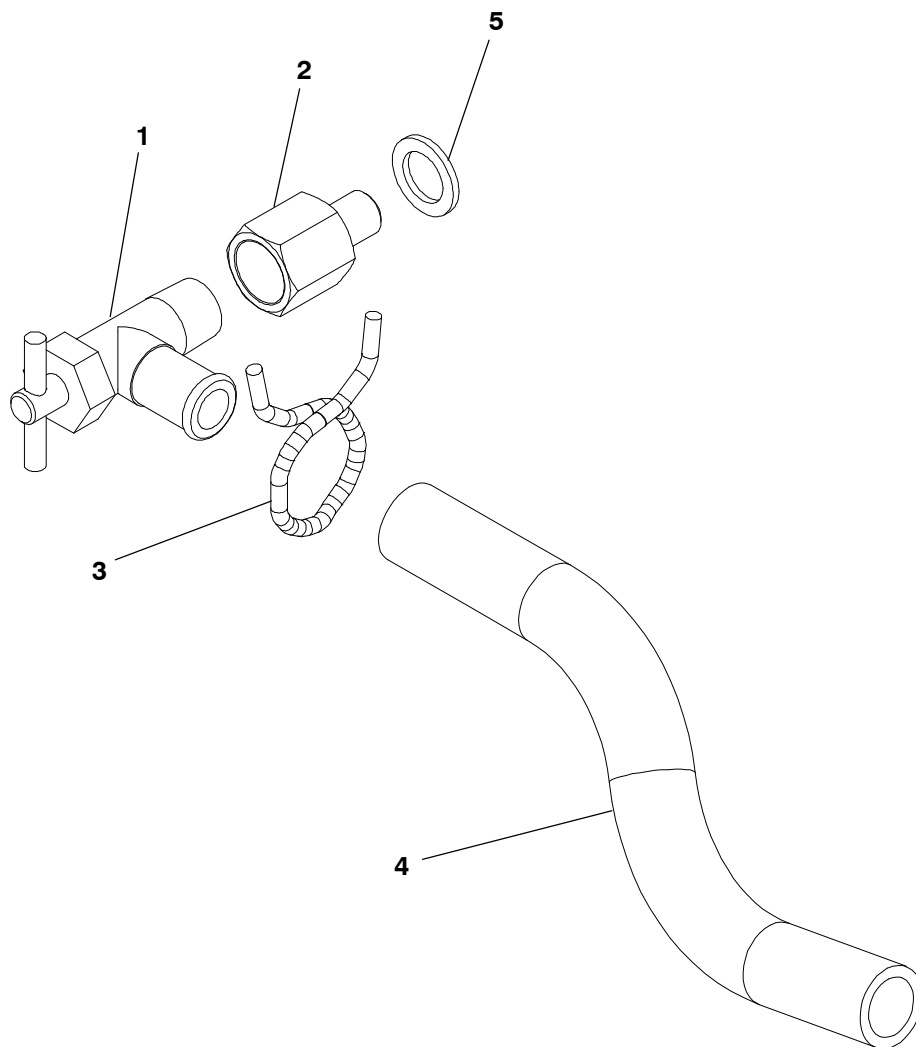
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0837	1	Adapter, Oil Filter	5	A028X493	1	Sender, Oil Pressure
2	122-0842	1	Gasket, Oil Filter Adapter	6	505-0057	1	Plug, Square Head
3	122-0838-02	1	Stud, Oil Filter	7	815-0970	4	Screw, Hex – Flange Head (M8 x 1.25 x 40)
4	122-0841	1	Filter, Oil				

Oil System (Prime Power)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0861-02	1	Bracket, Oil Filter	15	120-1338-02	1	Bracket, Oil Drain
2	122-0777	1	Filter, Oil	16	102-1320	2	Gasket, Oil Drain
3	502-1420	1	Fitting, Banjo	17	800-2089	3	Screw, Cap - Hex Head (M10 x 1.5 x 40)
4	502-1419	1	Adapter, Banjo	18	526-0174	4	Washer, Flat (3.4)
5	502-1422	2	Elbow, Tube	19	870-2056	3	Nut (M10 x 1.5)
6	503-2229	1	Hose, Oil - Bypass	20	718-1055	1	Screw, Cap - Hex Head (M10 x 1.5 x 30)
7	122-0837	1	Adapter, Oil Filter	21	332-1389	2	Clamp, Tie
8	520-1027-02	1	Stud, Oil Filter	22	122-0842	1	Gasket, Oil Filter Adapter
9	122-0848	1	Filter, Oil	23	A028X493	1	Sender, Oil Pressure
10	503-2228	1	Hose, Oil - Bypass	24	123-2217	1	Indicator, Oil
11	502-1240	1	Connector, Male	25	122-0702	1	Head, Filter
12	503-2294	1	Hose, Drain				
13	502-1421	1	Connector, Hose				
14	502-1123	1	Cap, Pipe				

Oil Drain Extension (Except Prime Power)

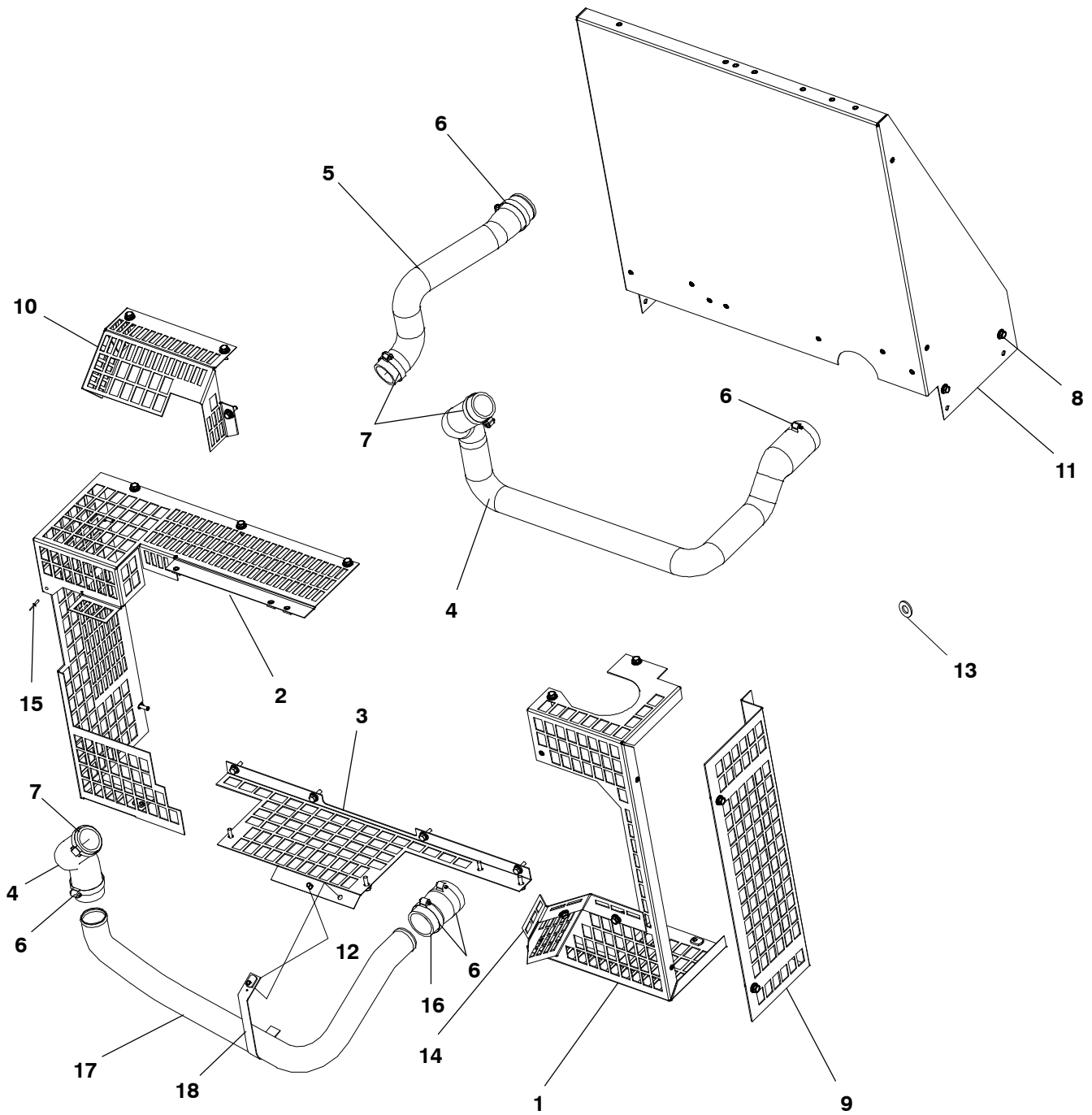


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	504-0176	1	Valve, Oil Drain
2	102-1503-04	1	Adapter, Oil Drain
3	A030R616	1	Clamp, Hose

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	503-1660-06	1	Hose, Oil Drain – 24"
5	102-1320	1	Gasket, Oil Drain

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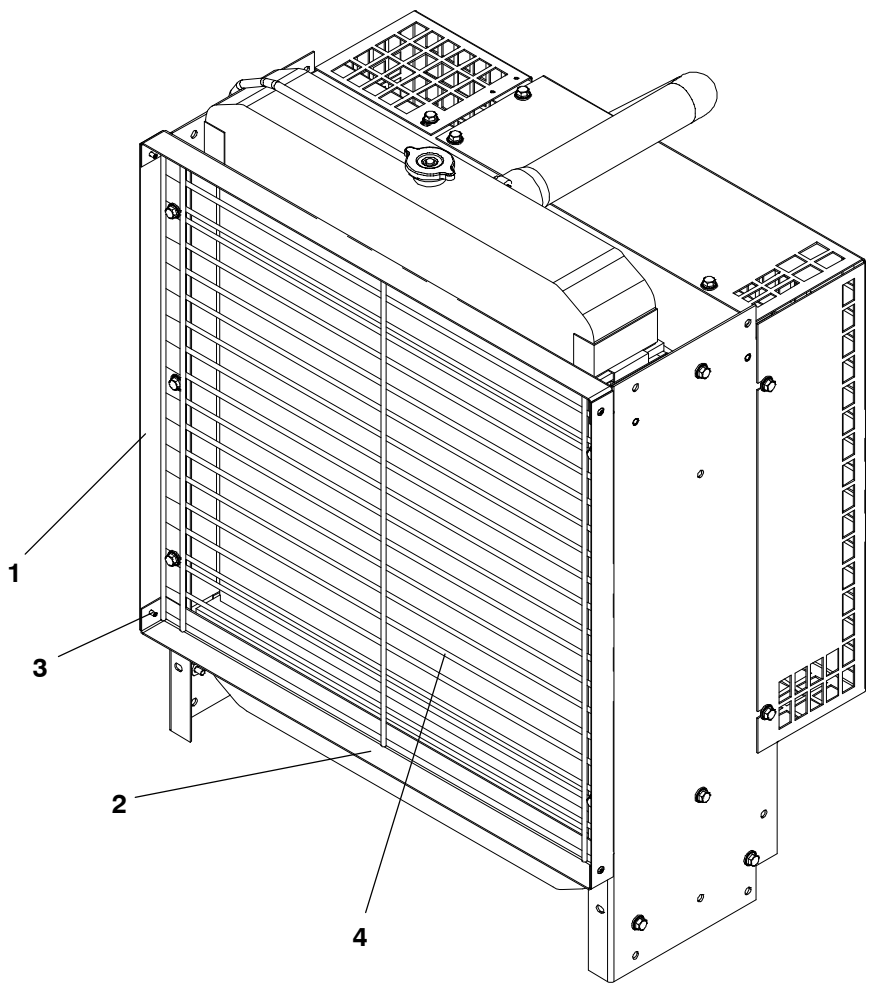
Remote Radiator



Remote Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5219-02	1	Guard, Fan – Left Side	11	405-6603-02	1	Panel, Radiator Housing – Front
2	130-5220-02	1	Guard, Fan – Right Side	12	821-6003-01	5	Screw, Cap – Hex Head (M8 x 1.25 x 16)
3	130-5222-02	1	Guard, Fan – Lower	13	526-2101	4	Washer, Flat (M8)
4	130-5363	1	Hose, Radiator Outlet	14	130-5306-02	1	Guard, Fan
5	130-5228	1	Hose, Radiator Inlet	15	818-0231-02	1	Rivet, Pop
6	503-1142	4	Clamp, Hose	16	503-2361	1	Hose, Radiator
7	503-1141	2	Clamp, Hose	17	130-5631-02	1	Tube, Radiator
8	821-6003-02	28	Screw, Hex Head (M8 x 1.25 x 20)	18	130-5630-02	1	Bracket, Tube
9	130-5284-02	1	Guard, Side				
10	130-5221-02	1	Guard, Alternator				

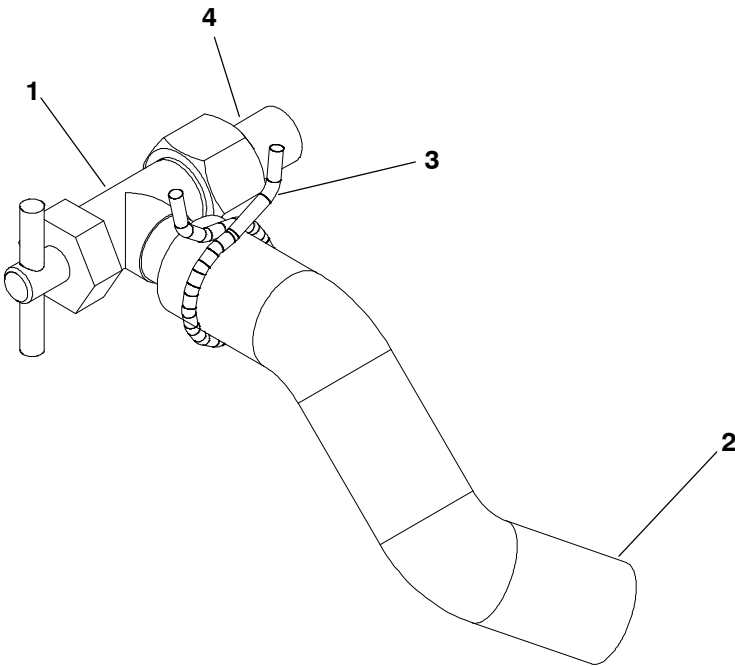
Radiator Duct Adapter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4623	2	Adapter, Duct – Sides
2	130-4622	2	Adapter, Duct – Top and Bottom

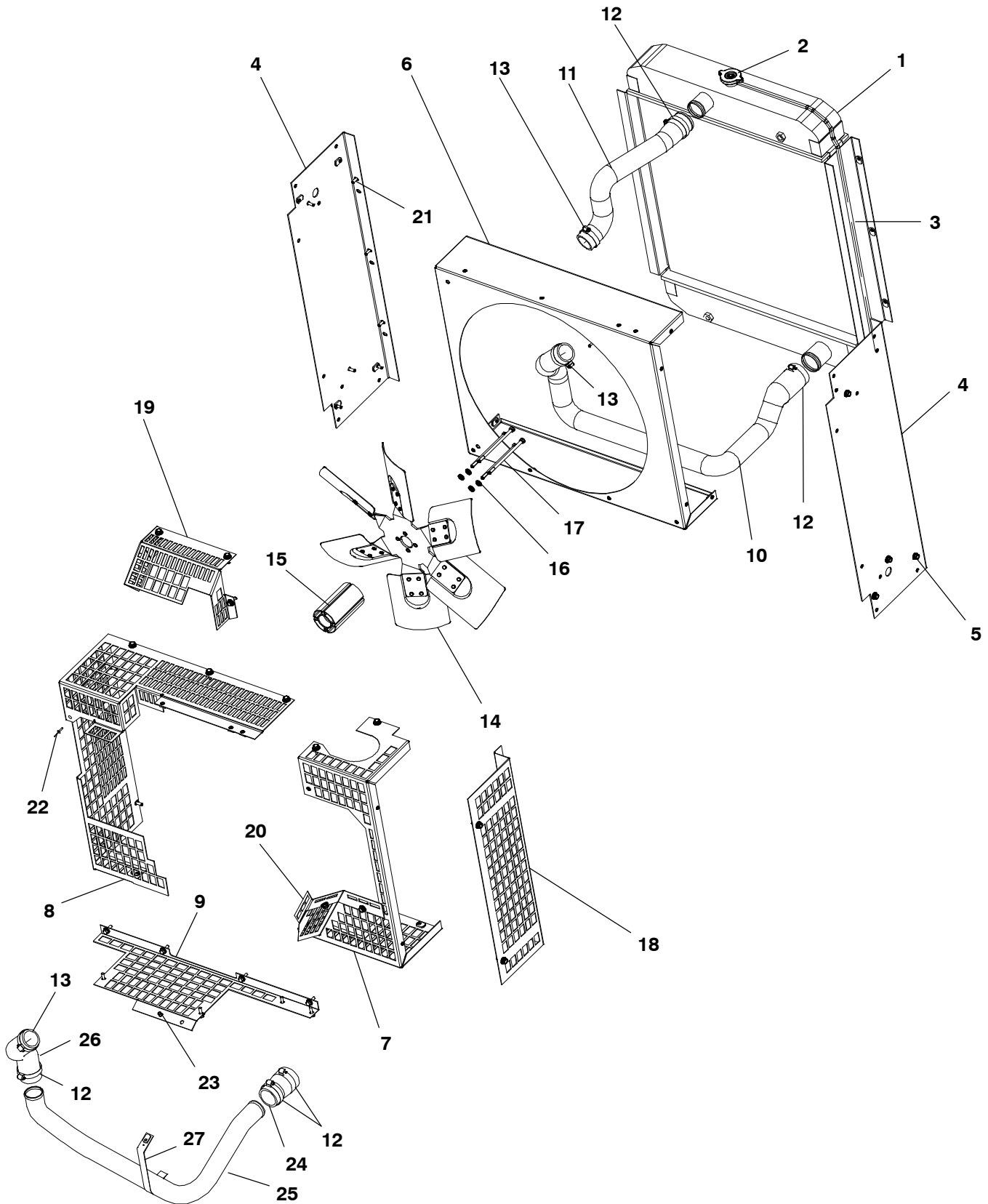
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	818-0231-02	4	Rivet, Pop
4	130-4602	1	Grille, Radiator

Coolant Drain



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	504-0176	1	Valve, Coolant Drain	3	A030R616	1	Clamp, Hose
2	503-0386	3'	Hose, Coolant Drain – Engine	4	502-0426-01	1	Adapter, Pipe

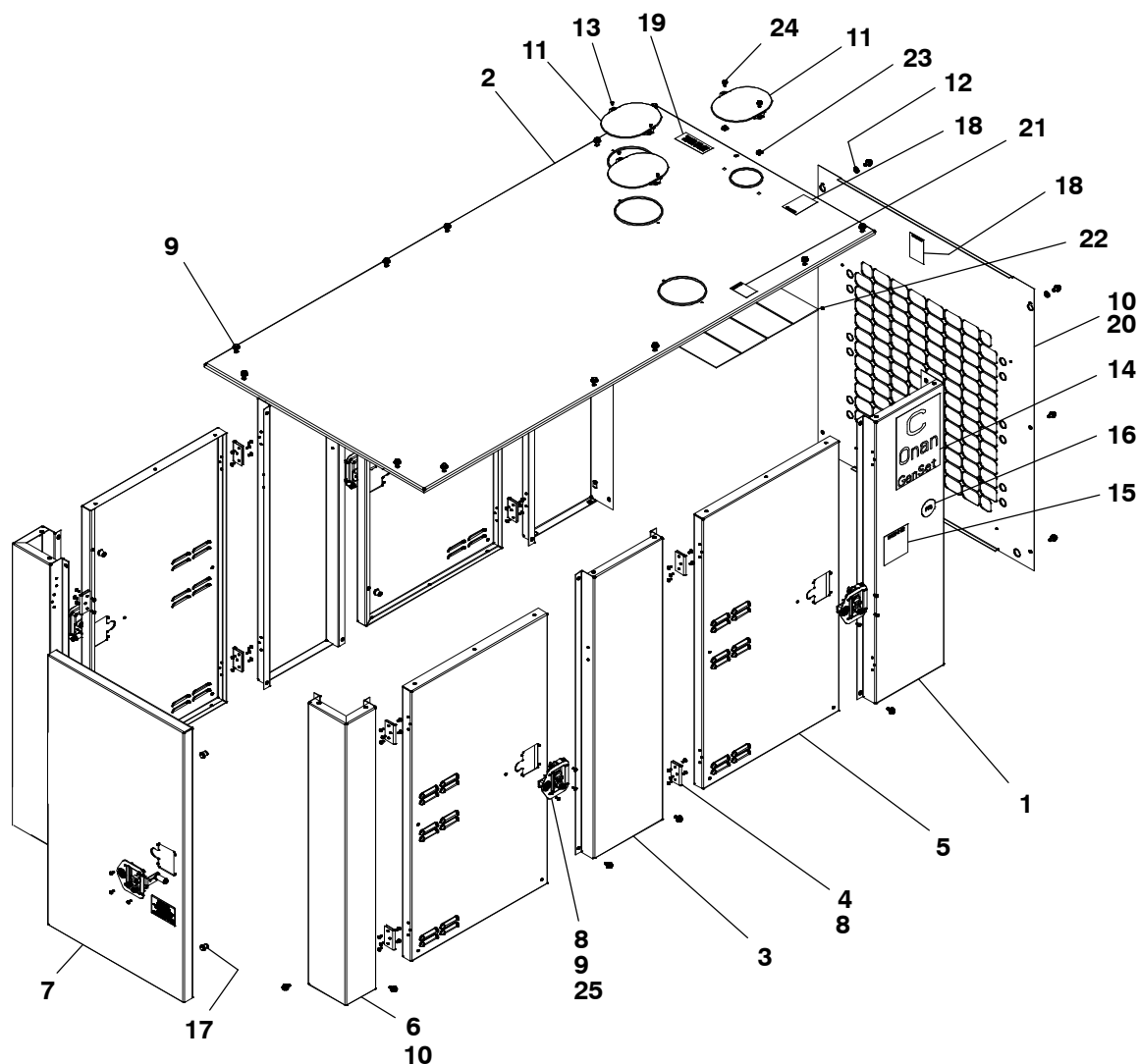
Radiator



Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4596-02	1	Radiator (Includes Radiator Cap and Overflow Hose)	14	130-5287	1	Fan, Radiator
2	130-1788	1	Cap, Radiator - 14 PSI	15	130-5213-01	1	Spacer, Fan
3	503-0276	-	Overflow Hose - Bulk (Order By The Foot - 4 Feet Required)	16	526-2101	4	Washer, Flat (M8)
4	130-4767	2	Side, Housing	17	800-2077	4	Screw, Cap - Hex Head (M8 x 1 x 150)
5	821-6003-02	32	Screw, Hex Head (M8 x 1.25 x 20)	18	130-5284-02	1	Guard, Side
6	130-5231-02	1	Shroud	19	130-5221-02	1	Guard, Alternator
7	130-5219-02	1	Guard, Fan - Left Side	20	130-5306-02	1	Guard, Fan
8	130-5220-02	1	Guard, Fan - Right Side	21	821-6007-02	6	Screw, Hex Head (M8 x 1.25 x 20)
9	130-5222-02	1	Guard, Fan - Lower	22	818-0231-02	1	Rivet, Pop
10	130-5227	1	Hose, Radiator Outlet	23	821-6003-01	1	Screw, Cap - Hex Head (M8 x 1.25 x 16)
11	130-5228	1	Hose, Radiator Inlet	24	503-2361	1	Hose, Radiator
12	503-1142	4	Clamp, Hose	25	130-5631-02	1	Tube, Radiator - Outlet
13	503-1141	2	Clamp, Hose	26	130-5363	1	Hose, Outlet - Adapter
				27	130-5630-02	1	Bracket, Tube

Housing Standard Weather Protective

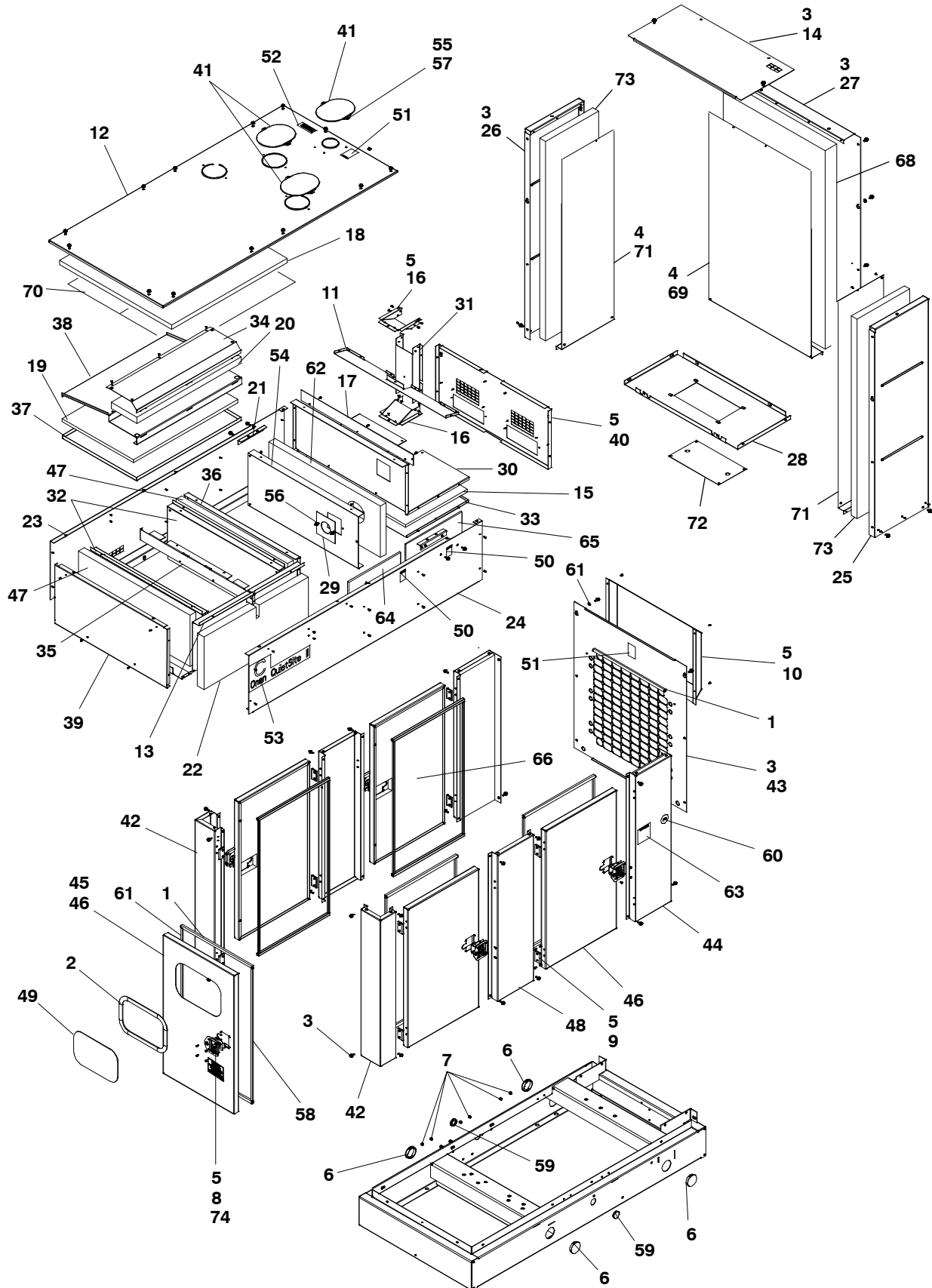


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-5908	2	Panel, Side – Radiator Housing	16	098-4500	2	Label, Prototype
2	405-8240-01	1	Roof	17	895-0382	10	Bumper, Door
3	405-5745	2	Post, Housing – Center	18	098-4730	2	Label, Warning
4	406-0831	10	Hinge, Housing	19	098-5429	1	Label, Coolant Fill
5	405-5832	4	Door, Housing	20	405-5910	1	Panel, Front – Radiator Housing
6	405-5916	2	Post, Corner – Housing	21	098-7451	1	Label, Caution
7	405-5902		Door, Rear	22	130-4848	-	Insulation, Exhaust – Bulk (Order by the Foot – 7 Feet Required)
8	818-0231-02	70	Rivet – Pop (3/16)	23	870-0504	2	Nut, Captive – Floating (M6 x 1.0)
9	406-0972-01	5	Latch, Door	24	821-6006-01	2	Screw, Hex Head (M6 x 1.00 x 16)
10	821-6007-02	28	Screw, Hex Head (M8 x 1.25 x 20)	25	406-0782	5	Key, Replacement (Fits Latch 406-0972-01)
11	155-3238	4	Cover, Exhaust				
12	526-0451	2	Washer, Flat (M8)				
13	818-0237-01	6	Rivet, Pop (1/8)				
14	098-7902-03	3	Label, Model Identification				
15	098-4732	2	Label, Warning				

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Housing

F172 Enclosure – F173 Enclosure with Single Front Duct



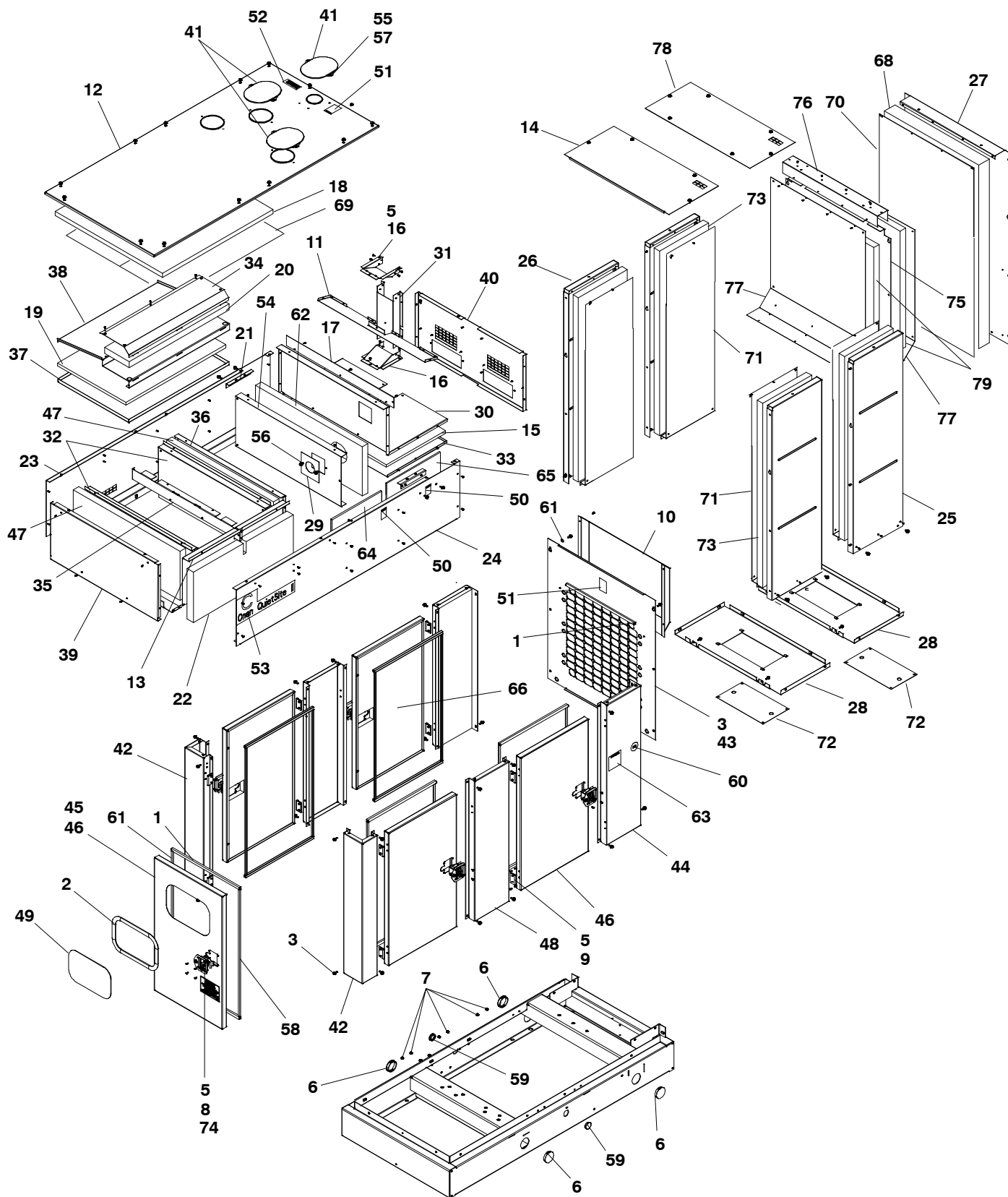
Housing

F172 Enclosure – F173 Enclosure with Single Front Duct

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	895-0384	11	Weather Seal Top & Bottom	39	405-5953	1	Extension, Rear
2	895-0363	–	Weather Strip – Window – Bulk (Order by the Foot – 4 Feet Required)	40	405-5952	1	Extension, Front
3			Screw, Hex Head (M8 x 1.25 x 20)	41	155-3238	3	Cover, Exhaust
	821-6007-02	47	F172 Housing	42	405-5916	2	Post, Corner – Housing
	821-6007-02	69	F173 Housing	43	405-5910	1	Panel, Front – Radiator Housing
4	818-0237-01	88	Rivet (1/8")	44	405-5908	2	Panel, Side – Radiator Housing
5	818-0231-02	105	Rivet (3/16")	45	405-5903	1	Door, Housing W/Window Cutout
6	517-0322	6	Plug, Hole	46	405-5902	5	Door, Housing WO/Window
7	517-0131	6	Plug, Hole	47	405-5841	2	Insulation
8	406-0972-01	5	Latch, Door	48	405-5745	2	Post, Housing – Center
9	406-0831	10	Hinge	49	319-2653	1	Window, Control (if equipped)
10	405-6035	1	Baffle, Air – Discharge	50	098-7451	3	Label, Caution
11	405-6068	1	Baffle, Recirculation – Muffler	51	098-4730	2	Label, Caution
12	405-8240-01	1	Roof	52	098-5429	1	Label, Coolant Fill
13	405-8311	1	Retainer, Insulation	53	098-7902-03	2	Label, Logo
14	405-6010	1	* Cover, Discharge	54	405-8312	1	Retainer, Insulation
15	405-6005	1	Insulation – Muffler	55	821-6006-01	2	Screw, Hex Head (M6 x 1.0 x 16)
16	405-6003	2	Box, Radiator Fill	56	526-0011	2	Washer, Flat
17	405-6029	1	Barrier, Air Flow	57	870-0504	2	Nut, Captive – Floating
18	405-6001-01	1	Insulation	58	895-0385	5	Weather Seal – Side
19	405-6000-03	1	Insulation	59	517-0138-07	2	Plug
20	405-6000-02	1	Insulation	60	098-4500	2	Label, Prototype Tested
21	405-5998	2	Support, Muffler	61	895-0386	5	Weather Seal
22	405-5997	1	Insulation	62	405-6109	1	Insulation
23	405-5996	1	Extension, Side – RH	63	098-4732	2	Label, Warning
24	405-5995	1	Extension, Side – LH	64	128-0154-04	1	Insulation, Foam
25	405-5991-02	1	* Side, Discharge – LH	65	128-0252	2	Insulation, Foam
26	405-5991-01	1	* Side, Discharge – RH	66	405-5734	2	Insulation
27	405-5990	1	* Discharge, Front	67	526-0451	4	Washer, Flat (M8)
28	405-9022-02	1	* Discharge, Bottom	68	405-6000-07	1	* Insulation
29	405-5987	1	Barrier, Air	69	A035E162	1	* Retainer, Insulation
30	405-5966	1	Box, Muffler	70	A035B488	2	Retainer, Insulation
31	405-6030	1	Fill Neck, Radiator	71	A035E159	2	* Retainer, Insulation
32	405-8307	2	Cover, Perforated	72	405-9023-02	1	* Panel, Access
33	405-8306	1	Retainer, Insulation	73	405-6000-04	2	* Insulation
34	405-8305	1	Inlet, Perforated	74	406-0782	5	Key, Replacement (Fits Latch 406-0972-01)
35	405-5957	2	Angle, Support				
36	405-5956	1	Duct, Support				
37	405-8304	1	Inlet, Perforated				
38	405-5954	1	Duct, Bottom – Inlet				

* – Parts used only on F173 Housing

Housing F173 Enclosure with Double Front Duct GGHF



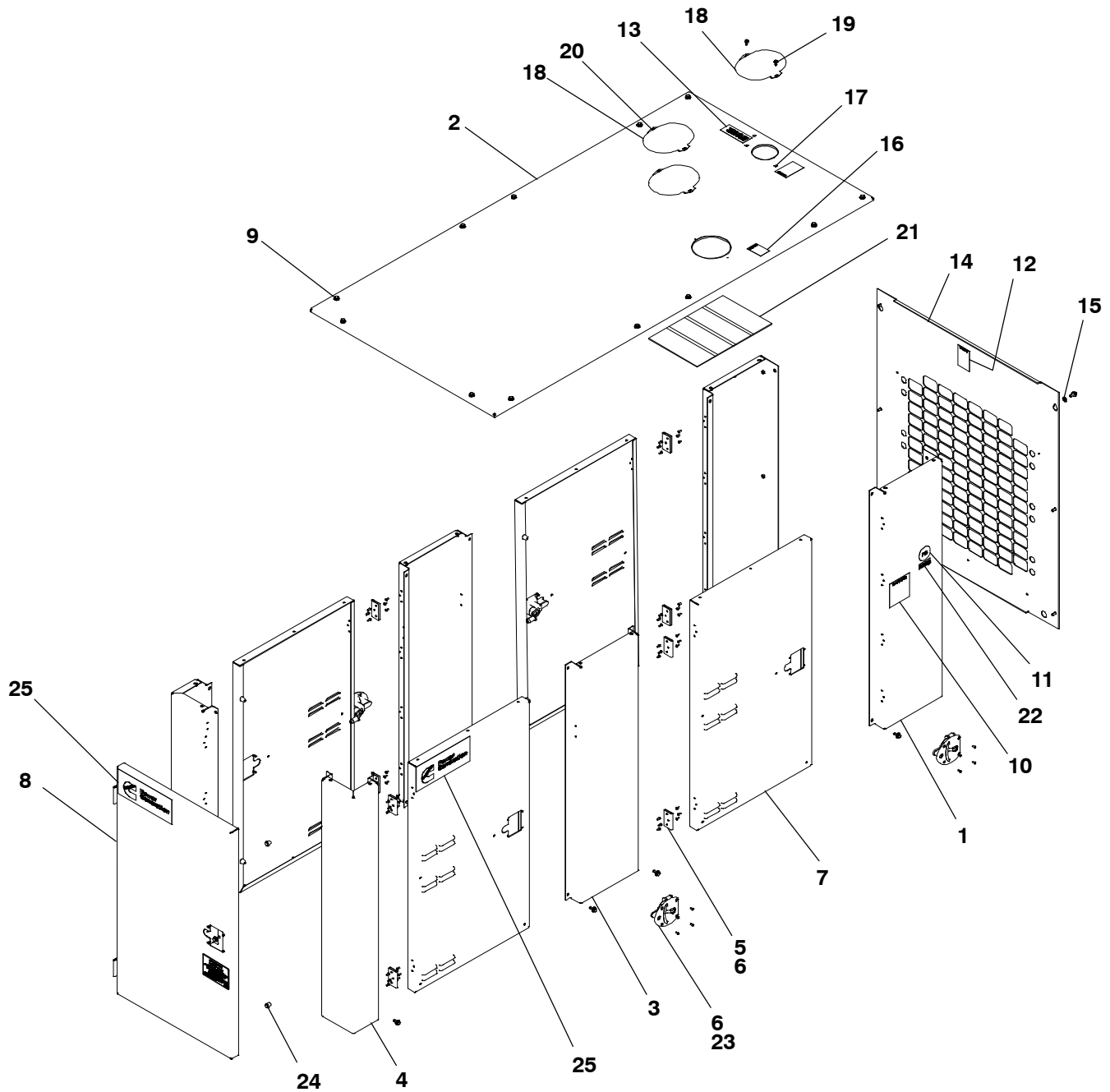
Housing

F173 Enclosure with Double Front Duct

GGHF

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	895-0384	11	Weather Seal Top & Bottom	42	405-5916	2	Post, Corner – Housing
2	895-0363	4.2'	Weather Strip – Window	43	405-5910	1	Panel, Front – Radiator Housing
3	821-6007-02	91	Screw, Hex Head (M8 x 1.25 x 20)	44	405-5908	2	Panel, Side – Radiator Housing
4	818-0237-01	116	Rivet (1/8")	45	405-5903	1	Door, Housing W/Window Cutout
5	818-0231-02	105	Rivet (3/16")	46	405-5902	5	Door, Housing WO/Window
6	517-0322	4	Plug, Hole	47	405-5841	2	Insulation
7	517-0131	6	Plug, Hole	48	405-5745	2	Post, Housing – Center
8	406-0972-01	5	Latch, Door	49	319-2653	1	Window, Control (if equipped)
9	406-0831	10	Hinge	50	098-7451	3	Label, Caution
10	405-6035	1	Baffle, Air – Discharge	51	098-4730	2	Label, Caution
11	405-6068	1	Baffle, Recirculation – Muffler	52	098-5429	1	Label, Coolant Fill
12	405-8240-01	1	Roof	53	098-7902-03	2	Label, Logo
13	405-8311	1	Cover, Perforated	54	405-8312	1	Retainer, Insulation
14	405-6010	1	Cover, Discharge	55	821-6006-01	2	Screw, Hex Head (M6 x 1.0 x 16)
15	405-6005	1	Insulation – Muffler	56	526-0011	2	Washer, Flat
16	405-6003	2	Box, Radiator Fill	57	870-0504	2	Nut, Captive – Floating
17	405-6029	1	Barrier, Air Flow	58	895-0385	5	Weather Seal – Side
18	405-6001-01	1	Insulation	59	517-0138-07	2	Plug
19	405-6000-03	1	Insulation	60	098-4500	2	Label, Prototype Tested
20	405-6000-02	1	Insulation	61	895-0386	5	Weather Seal
21	405-5998	2	Support, Muffler	62	405-6109	1	Insulation
22	405-5997	1	Insulation	63	098-4732	2	Label, Warning
23	405-5996	1	Extension, Side – RH	64	128-0154-04	1	Insulation, Foam
24	405-5995	1	Extension, Side – LH	65	128-0252	2	Insulation, Foam
25	405-5991-02	2	Side, Discharge – LH	66	405-5734	2	Insulation
26	405-5991-01	2	Side, Discharge – RH	67	526-0451	4	Washer, Flat (M8)
27	405-5990	1	Discharge, Front	68	405-6000-07	1	Insulation
28	405-9022-02	2	Panel, Enclosure	69	A035B488	2	Retainer, Insulation
29	405-5987	1	Barrier, Air	70	A035E162	1	Retainer, Insulation
30	405-5966	1	Box, Muffler	71	A035E159	4	Retainer, Insulation
31	405-6030	1	Fill Neck, Radiator	72	405-9023-02	2	Panel, Access
32	405-8307	2	Cover, Perforated	73	405-6000-04	4	Insulation
33	405-8306	1	Retainer, Insulation	74	406-0782	5	Key, Replacement (Fits Latch 406-0972-01)
34	405-8305	1	Inlet, Perforated	75	405-5992	1	Panel, Center
35	405-5957	2	Angle, Support	76	405-5993	1	Cover, Duct
36	405-5956	1	Duct, Support	77	405-5994	2	Retainer, Insulation
37	405-8304	1	Inlet, Perforated	78	405-5989	1	Cover, Air Discharge Box – Top
38	405-5954	1	Duct, Bottom – Inlet	79	405-6000-01	2	Insulation
39	405-5953	1	Extension, Rear				
40	405-5952	1	Extension, Front				
41	155-3238	3	Cover, Exhaust				

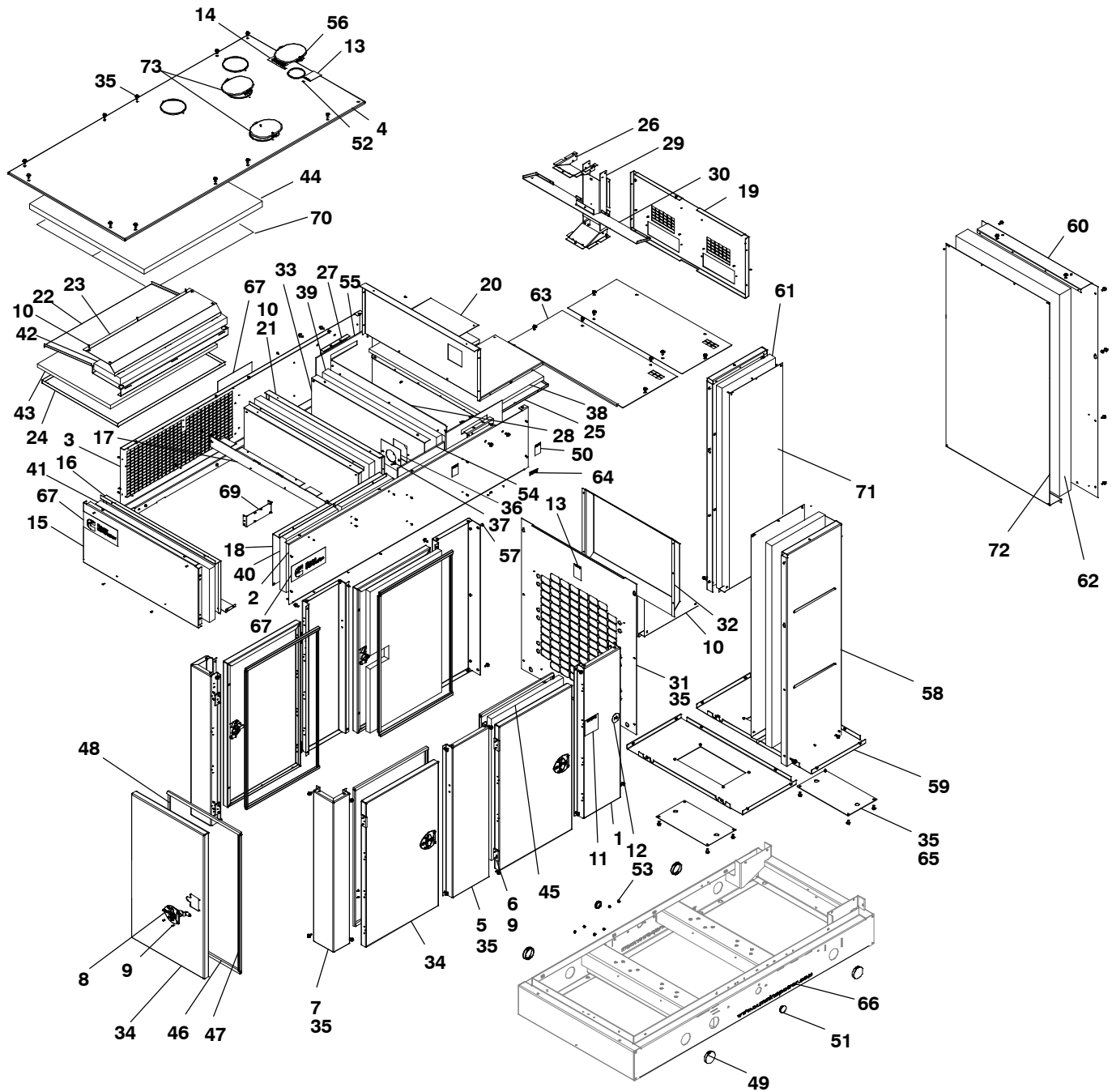
Housing
F216 Enclosure – Aluminum
Begin Spec G



Housing
F216 Enclosure – Aluminum
Begin Spec G

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-9881-03	2	Post, Enclosure	15	526-0451	2	Washer, Flat
2	405-9882-02	1	Roof, Enclosure	16	098-7451	1	Label, Caution
3	405-9883-03	2	Post, Enclosure (Center)	17	870-0504	2	Nut, Retainer (M6 x 1)
4	405-9885-03	2	Post, Enclosure	18	155-4643-02	3	Cover, Exhaust
5	406-0831	10	Hinge, Housing	19	821-6006-01	2	Screw, Hex Head (M6 x 1.0 x 16)
6	818-0231-02	80	Rivet, Pop	20	818-0237-01	4	Rivet, Pop
7	405-9884-02	4	Door, Enclosure	21	130-4848	-	Insulation, Exhaust – Bulk (Order by the Foot – 7 Feet Required)
8	405-9888-02	1	Door, Enclosure				
9	821-6007-02	28	Screw, Hex Head (M8 x 1.25 x 20)	22	098-7868	1	Label
10	098-4732	2	Label, Warning	23	406-0972-01	5	Latch
11	098-4500	2	Label, Prototype	24	895-0382	10	Bumper, Door
12	098-4730	2	Label, Warning	25	098-7902-03	3	Label, Logo
13	098-5429	1	Label, Coolant Fill				
14	405-9887-02	1	Panel, Enclosure				

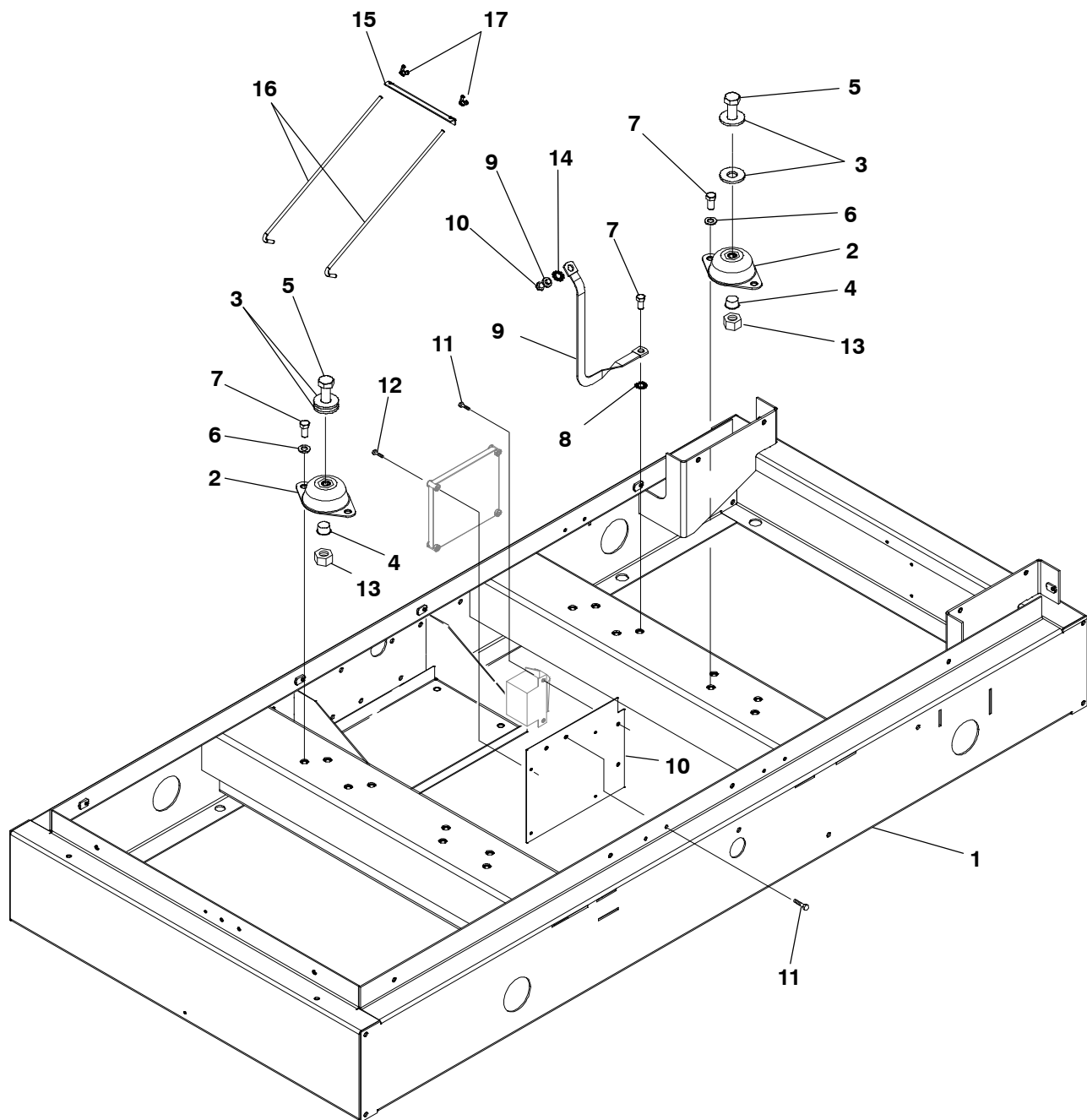
Housing F217 Enclosure - Aluminum Begin Spec G



Housing
F217 Enclosure – Aluminum
Begin Spec G

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-9881-03	2	Post, Enclosure	38	405-6005	1	Insulation, Panel
2	405-9893	1	Side, Extension (LH)	39	405-6109	1	Insulation, Panel
3	405-9892	1	Side, Extension (RH)	40	405-9977	1	Insulation, Panel
4	405-9882-02	1	Roof, Enclosure	41	405-5841	2	Insulation, Panel
5	405-9883-03	2	Post, Enclosure (Center)	42	405-6000-02	1	Insulation, Panel
6	406-0831	10	Hinge, Housing	43	405-6000-03	1	Insulation, Panel
7	405-9885-03	2	Post, Enclosure	44	405-6001-01	1	Insulation, Panel
8	406-0972-01	5	Latch	45	405-5734	2	Insulation, Door
9	818-0231-02	112	Rivet, Pop (3/16)	46	895-0384	11	Seal, Weather
10	818-0237-01	55	Rivet, Pop (1/8)	47	895-0385	5	Seal, Weather
11	098-4500	2	Label, Prototype	48	895-0386	5	Seal, Weather
12	098-4732	2	Label, Warning	49	517-0322	4	Plug, Hole
13	098-4730	2	Label, Warning	50	098-7451	3	Label, Caution
14	098-5429	1	Label, Coolant Fill	51	517-0138-07	2	Plug, Hole
15	405-9895	1	Panel, Roof	52	870-0504	2	Nut, Retainer (M6 x 1)
16	405-8307	2	Retainer, Insulation	53	517-0131	10	Plug, Hole
17	405-9898	2	Stiffener, Roof	54	128-0154-04	1	Insulation, Foam
18	405-9976	1	Retainer, Insulation	55	128-0252	2	Insulation, Foam
19	405-9894	1	Panel, Roof	56	821-6006-01	2	Screw, Hex Head (M6 x 1.0 x 16)
20	405-9899	1	Shield, Exhaust	57	526-0451	4	Washer, Flat
21	405-9897	1	Panel, Roof (Center)	58	405-9915	2	Panel, Enclosure (Side)
22	405-5954	1	Baffle, Air	59	405-9916	1	Panel, Enclosure
23	405-8305	1	Retainer, Insulation	60	405-9922	1	Duct, Air
24	405-8304	1	Retainer, Insulation	61	405-6000-04	2	Insulation, Panel
25	405-8306	1	Retainer, Insulation	62	405-6000-07	1	Insulation, Panel
26	405-9905	2	Stiffener, Enclosure	63	405-9918	1	Duct, Air (Top)
27	405-5998	2	Support, Muffler	64	098-7868	1	Label
28	405-9966	1	Baffle, Air	65	405-9971	1	Panel, Access
29	405-9904	1	Stiffener, Enclosure	66	098-8220	2	Label, Information
30	405-9909	1	Stiffener, Roof	67	098-7902-03	3	Label, Logo
31	405-9887-02	1	Panel, Enclosure	68	A026F929	1	Panel, Enclosure
32	405-9910	1	Baffle, Air	69	130-4878	1	Bracket
33	405-8312	1	Retainer, Insulation	70	A035B488	2	Retainer, Insulation
34	405-9888-02	5	Door, Enclosure	71	A035E159	2	Retainer, Insulation
35	821-6007-02	85	Screw, Hex Head (M8 x 1.25 x 20)	72	A035E162	1	Retainer, Insulation
36	405-5987	1	Cover, Enclosure (Inlet)	73	155-3719	4	Cover, Exhaust
37	526-0011	2	Washer, Flat (3/16)				

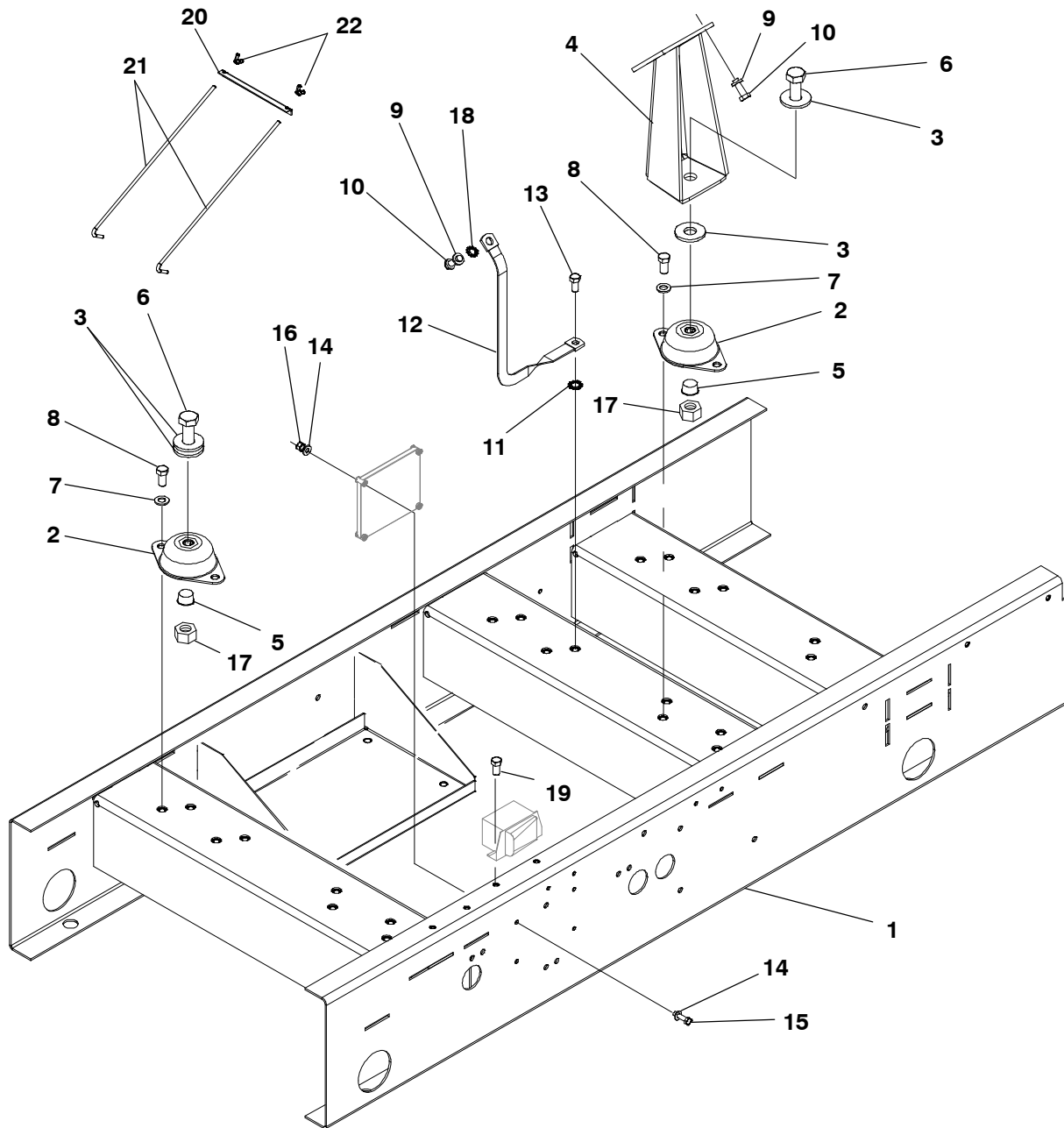
Skid Housing Compatible



Skid Housing Compatible

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4481-02	1	Skid Assy	10	403-5150-02	1	Bracket, Ignition Module
2	402-0779-05	4	Isolator, Vibration	11	821-6006-01	4	Screw, Hex Head (M6 x 1.0 x 16)
3	526-0238-01	8	Washer, Flat (3/4)	12	815-0793-08	4	Screw, Hex – Flange Head – Thread Forming (M5 x 0.8 x 35)
4	517-0094	4	Plug, Hole				
5	800-0607	4	Screw, Cap – Hex Head (3/4-10 x 2)	13	862-0044	4	Nut, Hex (3/4-10)
6	A026H354	8	Washer, Lock	14	856-0010	1	Washer – EIT (M10)
7	800-2543-02	9	Screw, Cap – Hex Head (M12 x 25)	15	416-1103-02	1	Hold Down, Battery
8	856-0013	1	Washer, Lock – W/EIT (M12)	16	416-0993-02	2	Rod, Battery Hold Down
9	337-0090	1	Strap, Electrical	17	865-0030	2	Nut, Wing (M6 x 1)

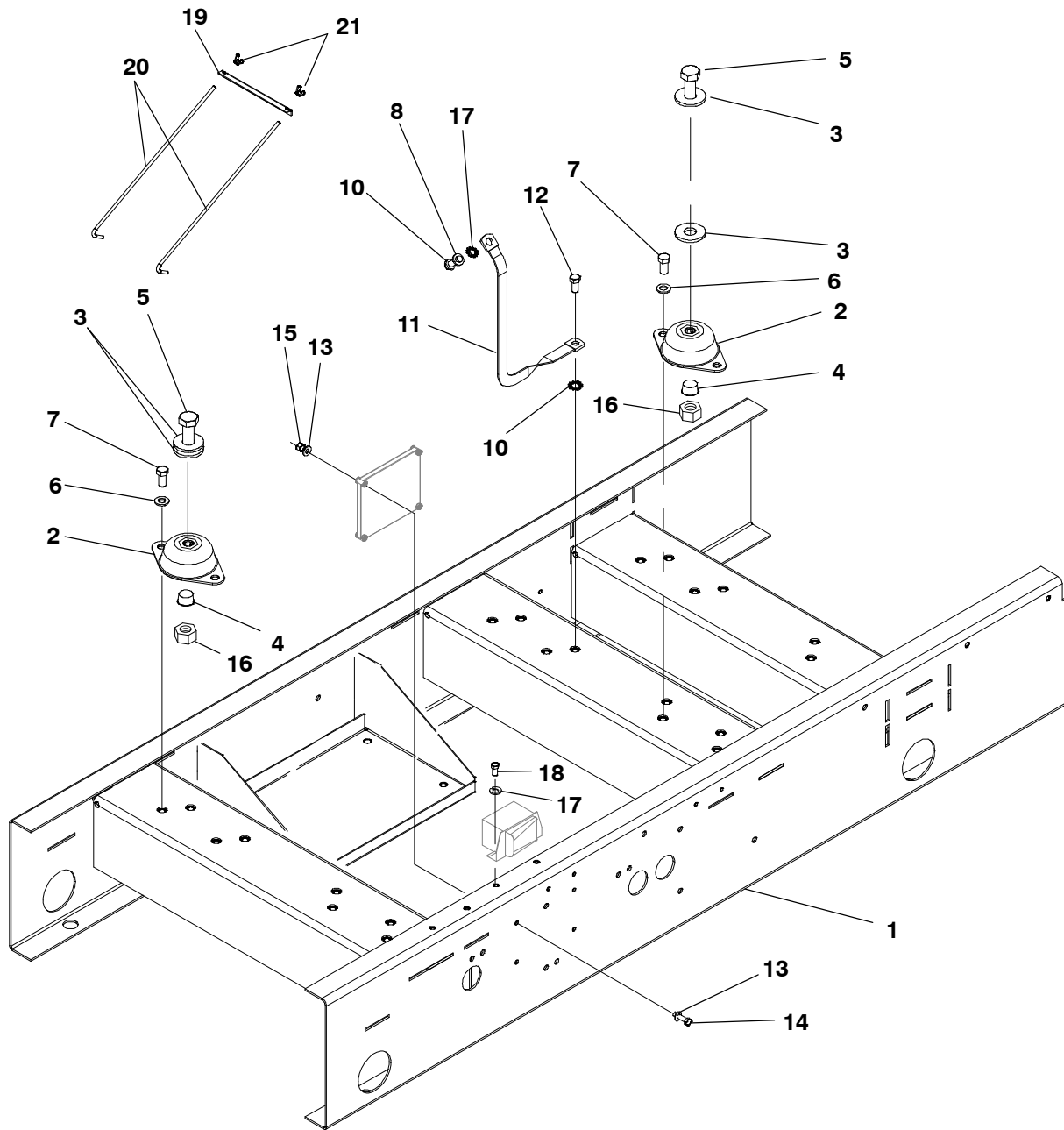
Skid Basic



Skid Basic

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4492-02	1	Skid Assy	12	337-0090-01	1	Strap, Electrical
2	402-0779-05	4	Isolator, Vibration	13	800-3017-20	1	Screw, Cap – Hex Head (M12 x 1.75 x 25)
3	526-0238-01	8	Washer, Flat (3/4)	14	526-0008	8	Washer, Flat (#10)
4	403-7073-02	2	Bracket, Mounting – Engine	15	800-2014	4	Screw, Hex Head (M5 x 0.8 x 40)
5	517-0094	4	Plug, Hole	16	860-2006	4	Nut, Hex (M5)
6	800-0607	4	Screw, Cap – Hex Head (3/4-10 x 2)	17	862-0044	4	Nut, Hex – Heavy (3/4-10)
7	526-0433	8	Washer, Hardened	18	856-0010	1	Washer – EIT (M10)
8	800-2543-02	8	Screw, Cap – Hex Head (M12 x 25)	19	821-6002-03	2	Screw, Hex Head (M6 x 1 x 16)
9	526-0174	8	Washer, Flat	20	416-1103-02	1	Hold Down, Battery
10	800-2530-03	8	Screw, Cap – Hex Head (M10 x 1.5 x 25)	21	416-0993-02	2	Rod, Battery Hold Down
11	856-0013	1	Washer, Lock – W/EIT (M12)	22	865-0030	2	Nut, Wing (M6 x 1)
				23	166-0890-01	1	Module-Ignition (Not Shown)

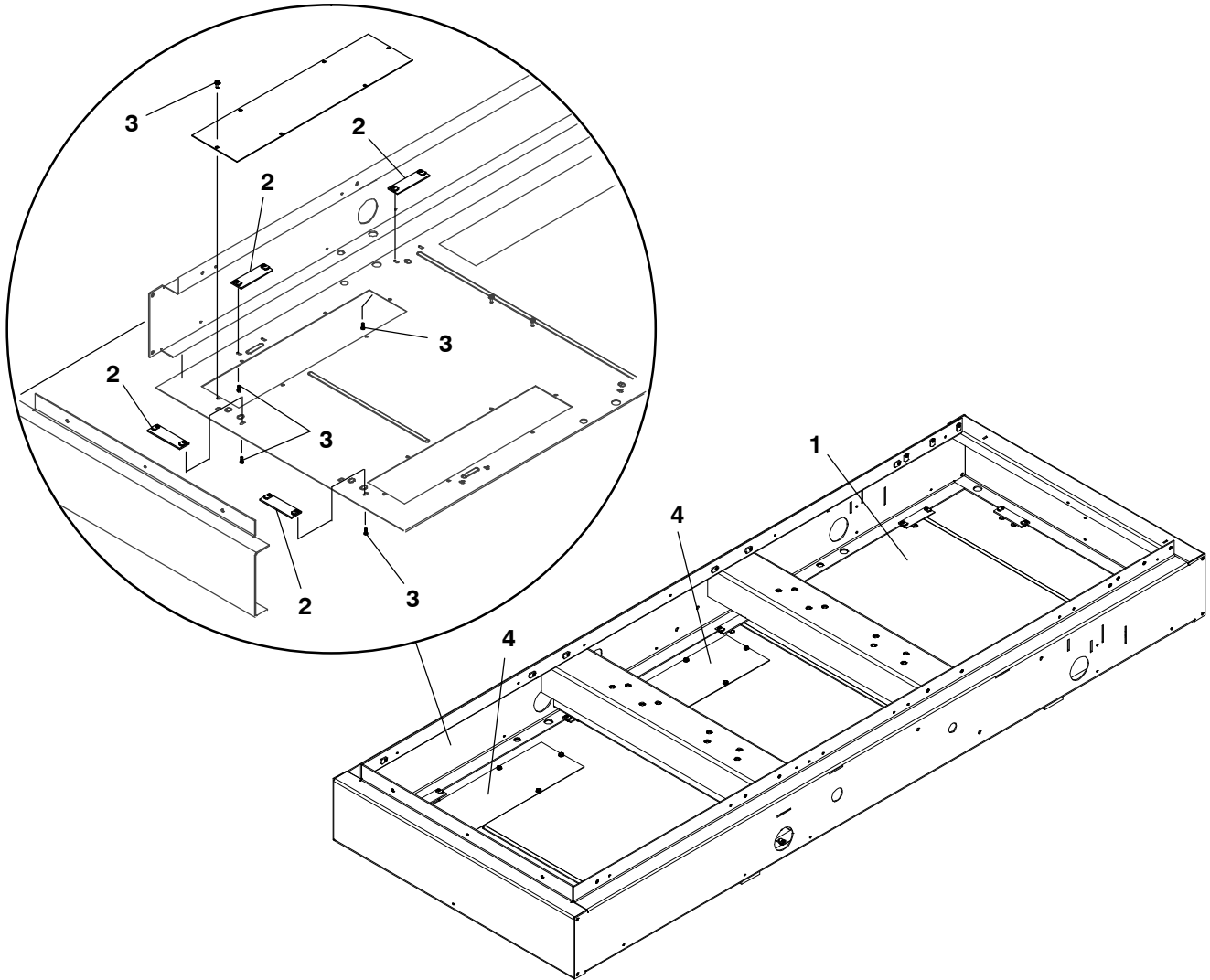
Skid - IBC



Skid – IBC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4492-02	1	Chassis	12	800-3017-20	1	Screw, Cap – Hex Head (M12 x 1.75 x 25)
2	402-0779-05	4	Isolator, Vibration	13	526-0008	8	Washer, Flat (#10)
3	526-0238-01	8	Washer, Flat (3/4)	14	800-2014	4	Screw, Hex Head (M5 x 0.8 x 40)
4	517-0094	4	Plug, Hole	15	860-2006	4	Nut, Hex (M5)
5	800-0607	4	Screw, Cap – Hex Head (3/4-10 x 2)	16	862-0044	4	Nut, Hex – Heavy (3/4-10)
6	A026H354	8	Washer, Lock	17	856-0010	1	Washer – EIT (M10)
7	800-2543-02	8	Screw, Cap – Hex Head (M12 x 25)	18	821-6002-03	2	Screw, Hex Head (M6 x 1 x 16)
8	526-0174	1	Washer, Flat	19	416-1103-02	1	Hold Down, Battery
9	800-2528	1	Screw, Hex Head	20	416-0993-02	2	Rod, Battery Hold Down
10	856-0013	1	Washer, Lock – W/EIT (M12)	21	865-0030	2	Nut, Wing (M6 x 1)
11	337-0090-01	1	Strap, Electrical	22	166-0890-01	1	Module – Ignition (Not Shown)

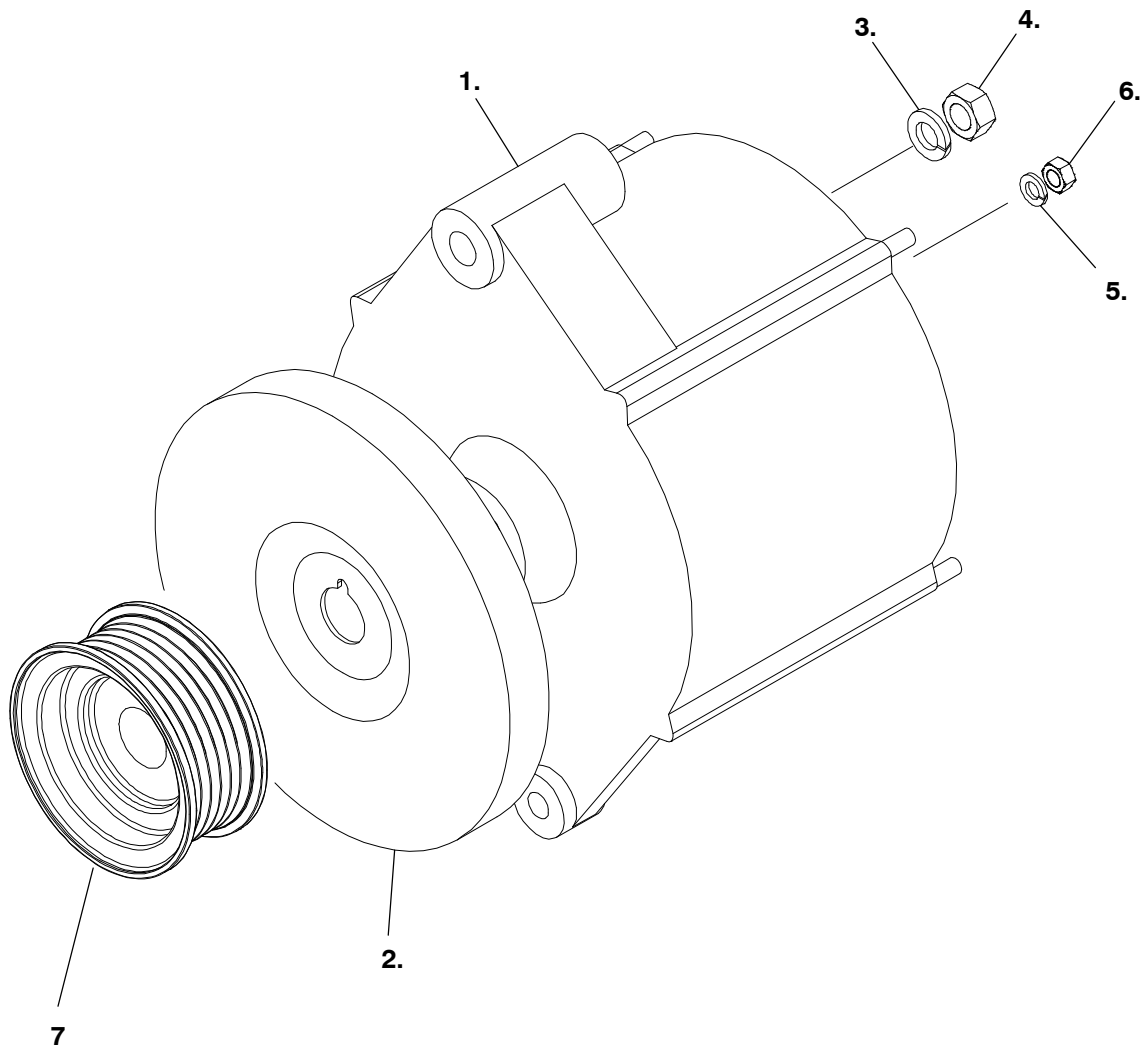
Skid Pan



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

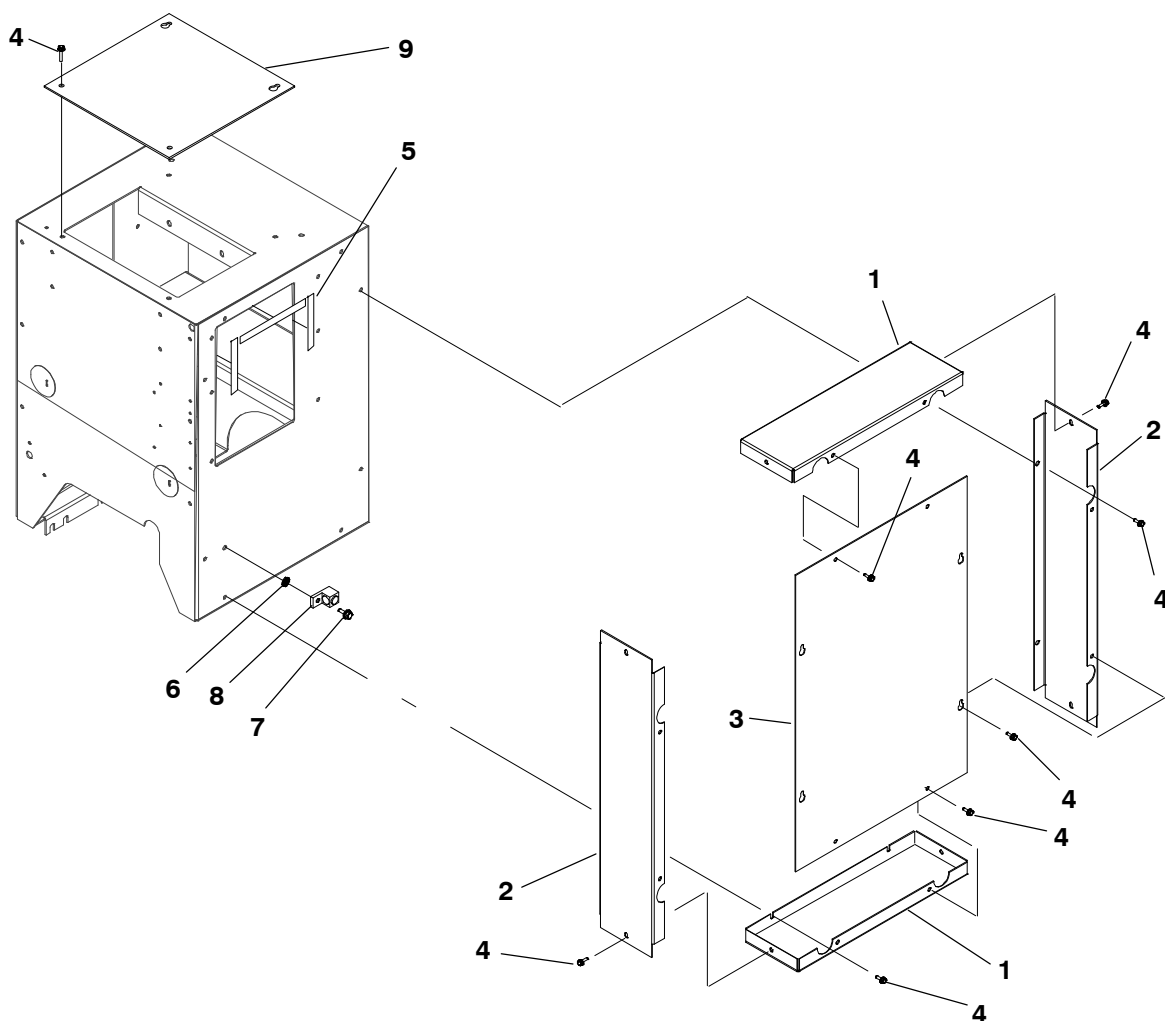
Alternator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	191-2326-01	1	Alternator Spec A-E
	A032W316	1	Begin Spec F
2.	191-2330	1	Fan, Alternator
3.	850-2008	1	Washer, Lock (M8)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4.	750-1006	1	Nut, Hex (M8 x 1.25)
5.	850-2005	2	Washer, Lock (M5)
6.	860-2006	2	Nut, Hex (M5 x 0.8)
7.	512-0229	1	Pulley, Alternator - 6 Groove

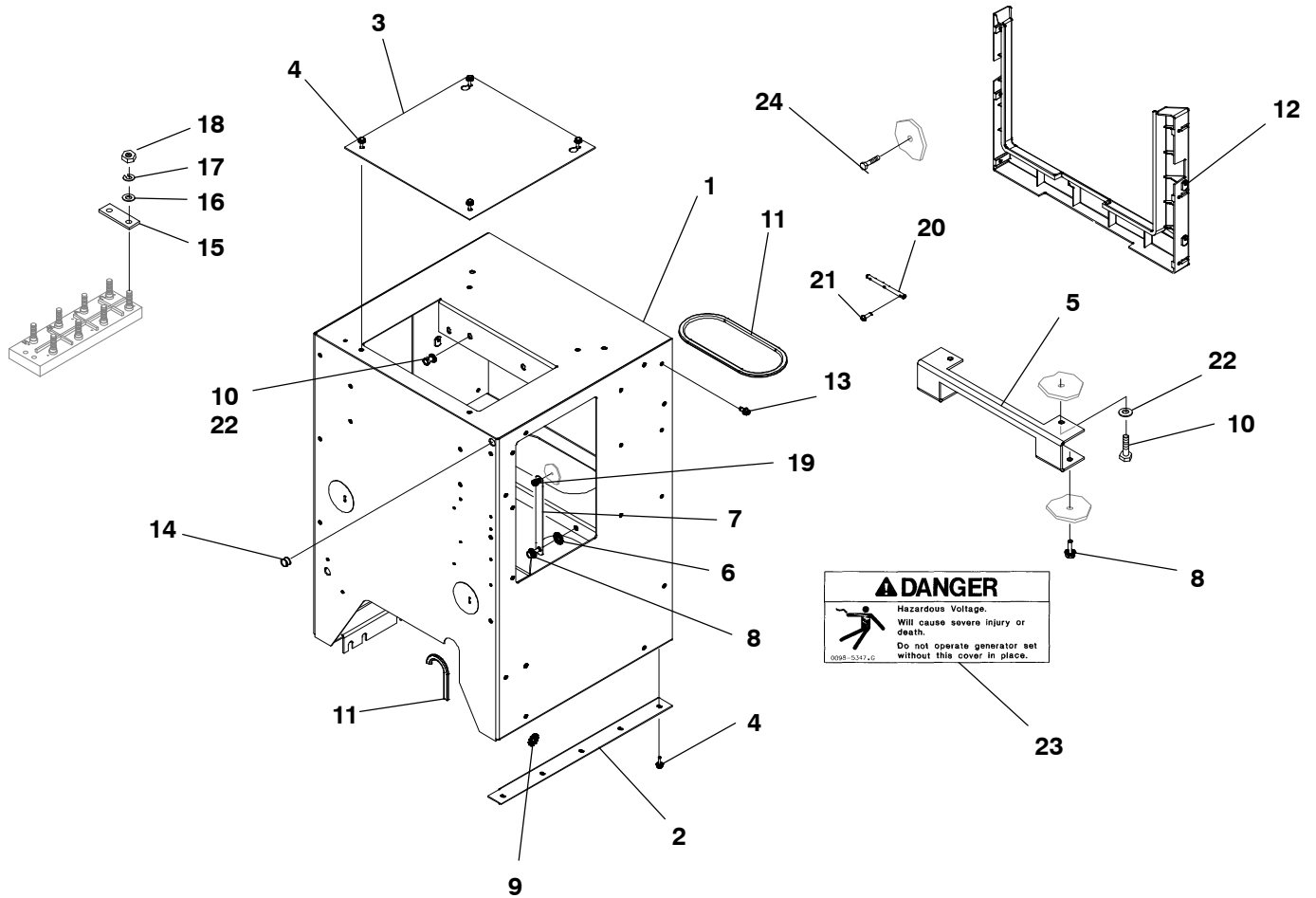
Entrance Box



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3072	2	Panel, Box – Top and Bottom
2	319-2978	2	Panel, Box – Side
3	319-2979-02	1	Cover, Entrance Box
4	821-6002-03	24	Screw, Self-Locking – Hex Washer Head (M6 x 1 x 16mm)
5	508-0239	–	Edging – Bulk (Order By The Foot – 2 Feet Required)

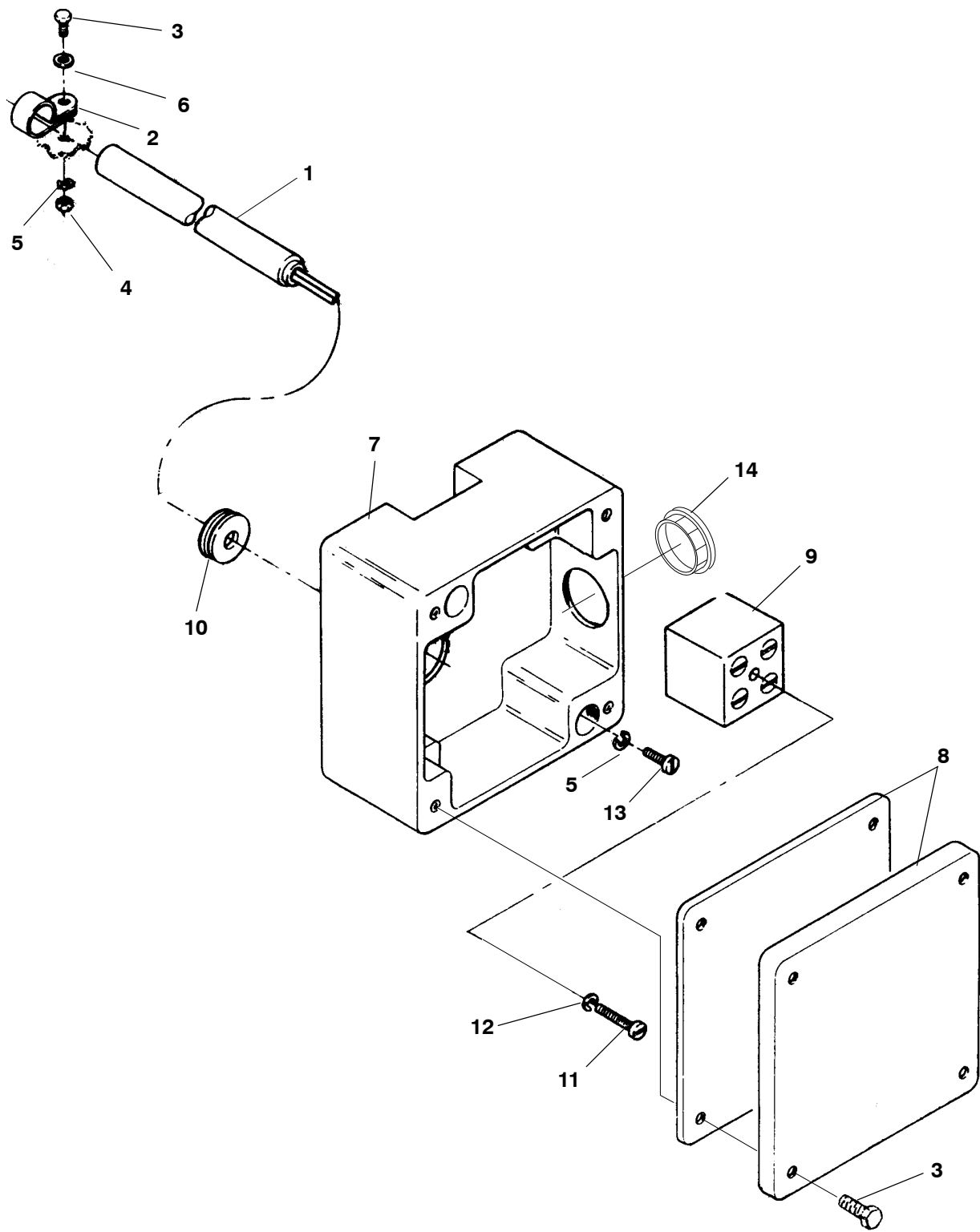
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	856-0008	1	Washer, Lock – EIT (5/16")
7	821-6003-02	1	Screw, Self-Locking – Hex Washer Head (M8 x 1.25 x 20mm)
8	332-1473	1	Lug, Solderless
9	319-2996	1	Cover, Control Housing

Control Housing



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Panel, Housing – Control	12	319-4457	1	Panel, Control
	319-3208	1	UCD22	13	815-0943-02	6	Screw, Hex Washer Head – Thread Forming (1/4-10 x .5)
	319-2967	1	UC27	14	517-0135	1	Plug, Hole
2	319-3207	1	Bracket, Control Mounting	15	332-2987	4	Link, Terminal
3	319-2996	1	Cover, Housing – Control	16	526-2120	8	Washer, Flat (M10)
4			Screw, Hex Head (M6 x 16)	17	850-2010	8	Washer, Lock (M10)
	821-6002-03	9	UCD22	18	870-2056	8	Nut, Hex (M10 x 1.5)
	821-6002-03	4	UC27	19	819-1144	1	Screw, Pan Head – Cross Recessed (M6 x 8)
5	319-4456-02	1	Bracket, Control	20	332-3740	1	Clamp, Strain
6	856-0010	1	Washer, Lock – W/EIT (3/8)	21	814-2150	3	Screw, Flat Head – Cross Recessed (M3 x 0.5 x 10)
7	337-0049	1	Strap, Bond	22	526-2100	4	Washer, Flat (M8)
8	821-6003-01	3	Screw, Hex Head (M8 x 1.25 x 16)	23	098-7244	1	Label, Danger
9			Washer, Lock – W/EIT	24			Screw, Hex Head (M5 x 0.8 x 12)
	856-0012	1	UCD22 (7/16)		821-6001-02	3	UCD22
	856-0013	1	UC27 (1/2)		821-6001-02	2	UC27
10	800-2052	4	Screw, Cap – Hex Head (M8 x 1.25 x 12)				
11	508-0239	–	Edging – Bulk (Order By The Foot – 3 Foot Required)				

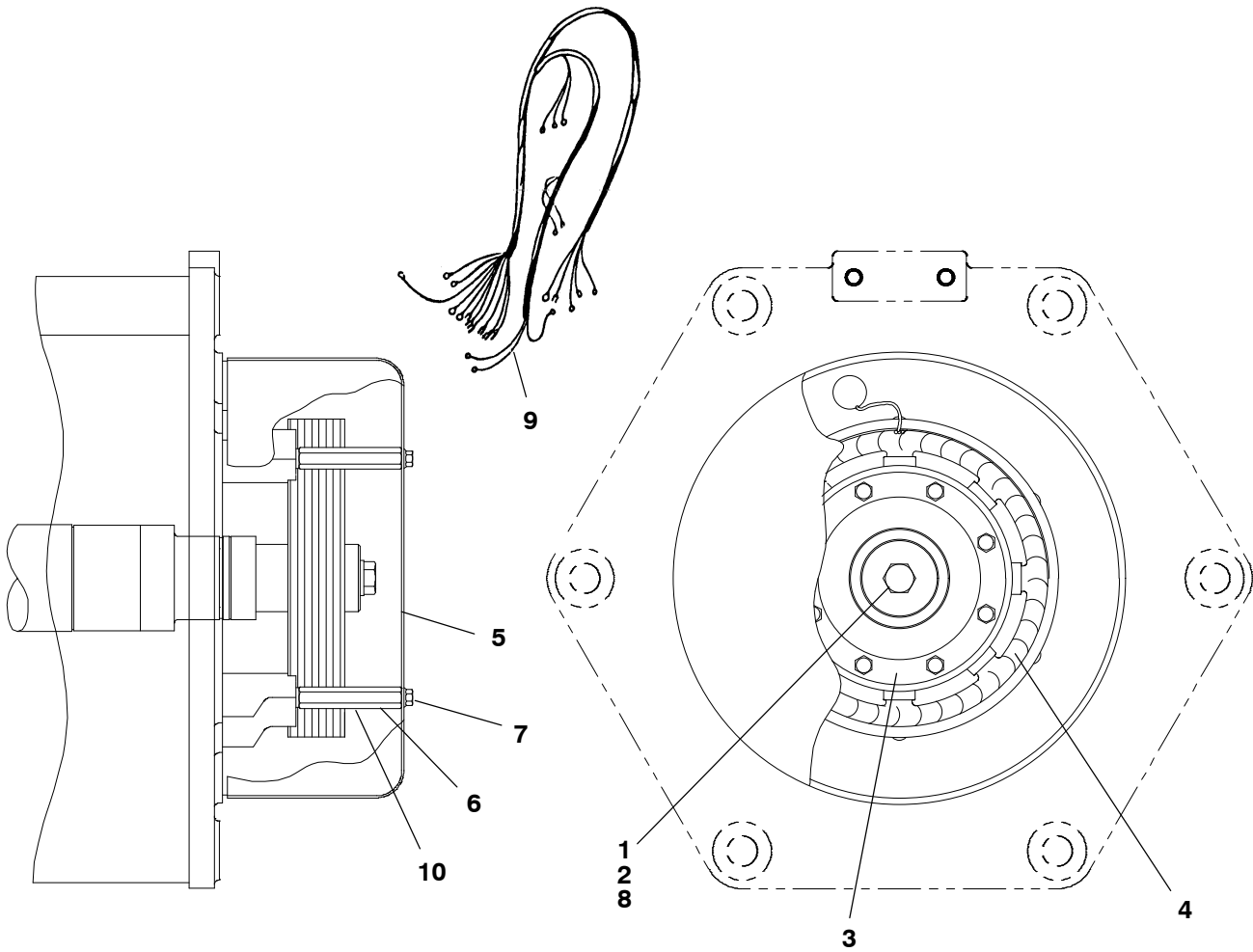
Generator Heater



Generator Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cartridge, Heater (100 Watt)	7	330-0142	1	Box, Terminal
	333-0438-07	1	120 Volt	8	330-0141-01	1	Terminal Box (Cover and Gasket)
	333-0438-08	1	240 Volt	9	332-3023	1	Block, Terminal
2	332-3024-11	2	Clamp, Loop	10	508-0228	1	Grommet
3	822-3075	5	Screw, Machine – Pan Head (M4 x 16mm)	11	822-3047	1	Screw, Machine – Pan Head (M3 x 20mm)
4	860-2005	1	Nut, Hex (M4)	12	850-2003	1	Washer, Lock – Spring (M3)
5	850-2004	3	Washer, Lock – Spring (M4)	13	815-0792-04	2	Screw, Pan Head (M4 x 12mm)
6	526-2050	1	Washer, Flat (M4)	14	517-0021	1	Plug, Dot Button

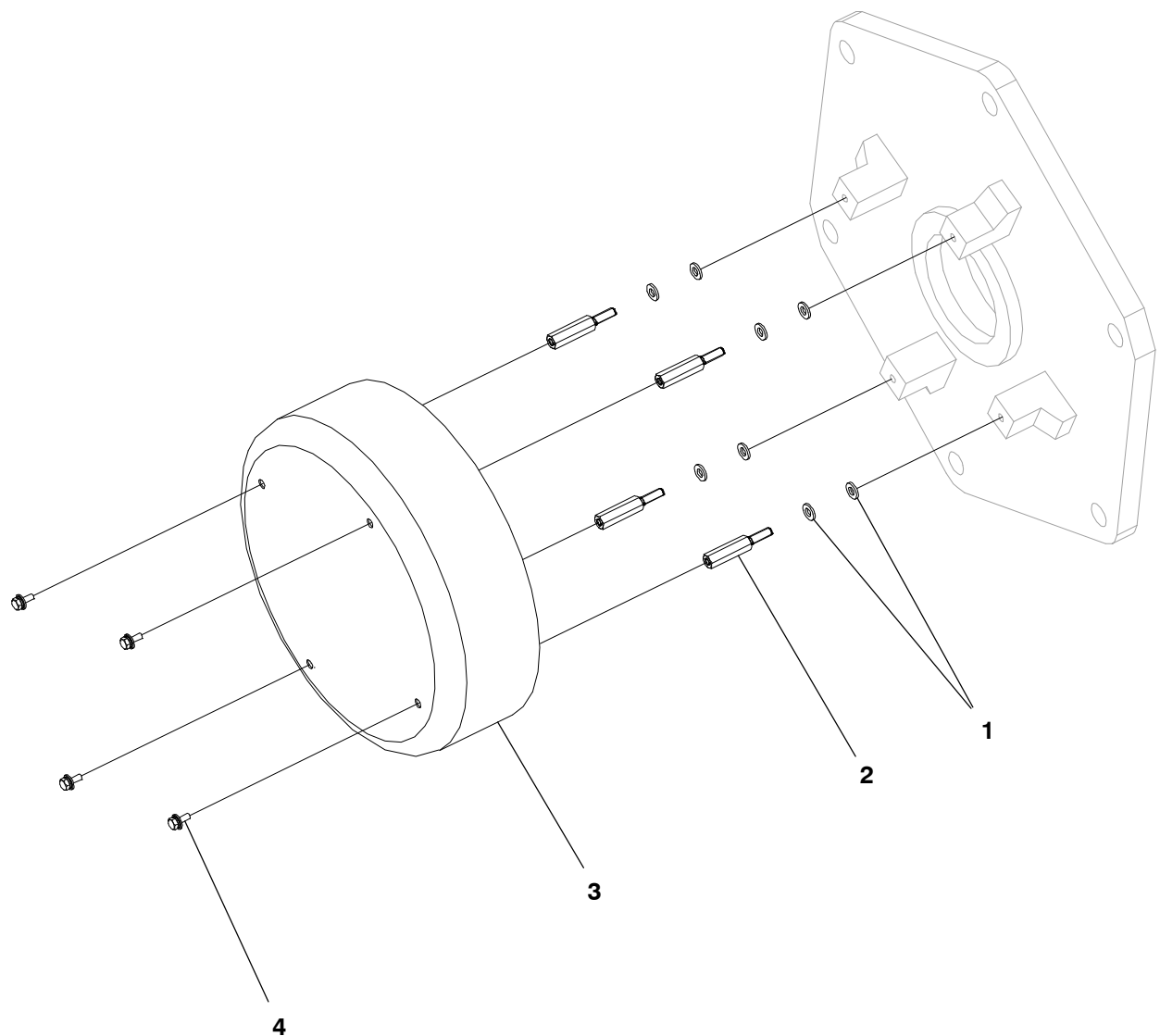
Permanent Magnet Generator (PMG)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	775-0049	1	Pin, Parallel
2	815-0761-01	1	Bolt, Mounting – PMG
3	A029M562	1	Rotor, PMG
4	A029M560	1	Stator, PMG
5	234-0875-02-G1		Cover, End Bell

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	232-3462-02	4	Spacer, Cover
7	821-6001-02	4	Screw, Hex Head
8	850-2010	1	Washer, Lock (M10)
9	338-3011	1	Harness, Wiring – PMG
10	850-2006	4	Washer, Lock (M6)

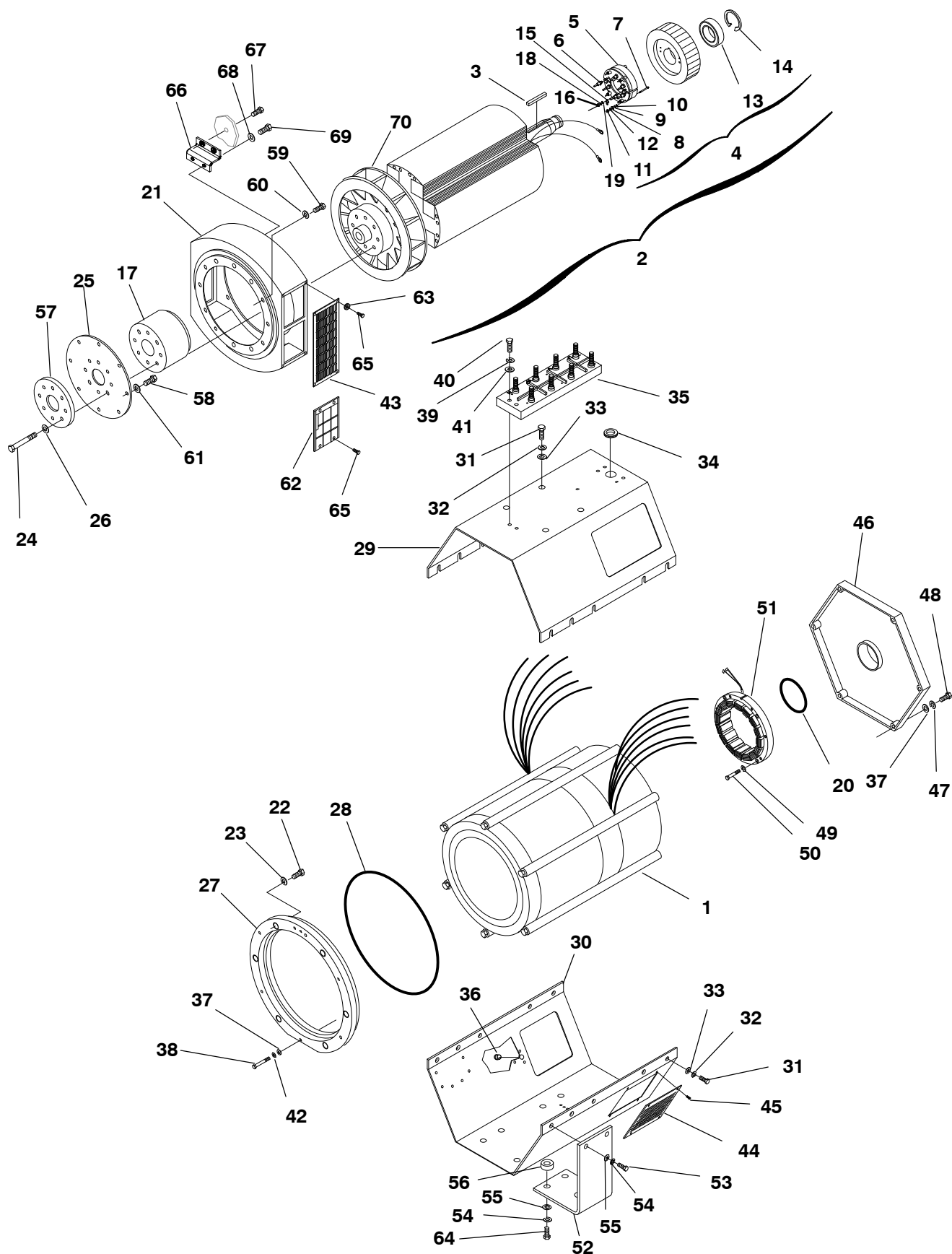
End Bell



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
	200-3031-39	1	Generator-Assembly	20			O-Ring
	200-3031-40	1	Generator-Assembly		509-0266-01	1	UCD22 Generator
	200-3031-44	1	Generator-Assembly		509-0266-02	1	UC27 Generator
	200-3031-45	1	Generator-Assembly	21			Adapter, Generator
	200-3031-49	1	Generator-Assembly		231-0383	1	UCD22 Generator
	200-3031-50	1	Generator-Assembly		231-0317	1	UC27 Generator
	200-3031-58	1	Generator-Assembly	22			Screw, Cap – Hex Head –
	200-3031-59	1	Generator-Assembly				UC27 Generator
	200-3031-60	1	Generator-Assembly		800-3017-42	5	M10 x 50mm
	200-3032-07	1	Generator-Assembly		800-3017-44	1	M10 x 60mm (12 O’Clock
	200-3032-08	1	Generator-Assembly				Position)
	200-3032-13	1	Generator-Assembly				UCD22 Generator
	200-3032-14	1	Generator-Assembly		800-3017-20	6	M8 x 25mm
1	-	1	Stator, Generator (See				
			Separate Pages for Part				
			Numbers)	23			Washer, Lock – Spring
2			Rotor Assembly, Generator				UC27 Generator
			(Includes Parts Marked *)		850-0114-55	6	M10
			UCD22 Generator				UCD22 Generator
	201-3557-03	1	180mm Stack Length		850-0114-54	6	M8
	201-3557-04	1	240mm Stack Length	24			Screw
	201-3557-05	1	300mm Stack Length		805-2021-06	8	UCD22 Generator – Hex
			UC27 Generator				Head (M12 x 45mm)
	201-3497-01	1	165mm Stack Length		720-1119	8	UC27 Generator – Cap – Hex
	201-3497-02	1	190mm Stack Length				Head (M16 x 40mm)
3			*Key, Exciter Rotor	25			Disc, Drive – Generator
			UCD22 Generator		232-3959-01	3	UCD22 Generator
	515-0299-04		180, 240mm Stack Length		232-3699	3	UC27 Generator
	515-0299-05		300mm Stack Length	26	526-0259	8	Washer, Flat (5/8”) Hardened –
	515-0297-01		UC27 Generator				UC27 Generator
4	201-3434-02		*Rotor Assembly, Exciter	28			Seal, Edging – Bulk (Order By
			(Includes Parts Marked #)				The Foot)
5			*#Rectifier Assembly (Includes		508-0139	-	UCD22 Generator (2 Feet
			Parts Marked +)				Required)
	357-0091	1	Forward (With Positive		508-0139	-	UC27 Generator (3 Feet
			Diode)				Required)
	357-0092	1	Reverse (With Negative	29			Cover, Stator – Top
			Diode)				UCD22 Generator
6			*#+Diode		234-0936-02	1	180, 240mm Stack Length
	358-0135-01	3	Positive		234-0936-03	1	300mm Stack Length
	358-0135-02	3	Negative				UC27 Generator
7	800-3009	6	*#+ Screw, Cap – Hex Head		234-0937-01	1	165, 190mm Stack Length
			(M4 x 35mm) (CR1,2,3,4,5,6)	30			Cover, Stator – Bottom
8	860-2005	6	*#+ Nut, Hex (M4)				UCD22 Generator
9	850-2004	6	*#+ Washer, Lock – Spring (M4)		232-3819-02	1	180, 240mm Stack Length
10	526-2050	6	*#+ Washer, Flat (M4)		232-3819-03	1	300mm Stack Length
11	870-2064-01	6	*#Nut, Locking – Nylon (M4)				UC27 Generator
12	526-2050	6	*#Washer, Flat (M4)		232-3820-01	1	165, 190mm Stack Length
13			*Bearing, Ball	31			Screw, Cap – Hex Head
	510-0165	1	UCD22 Generator		800-3017-37	10	UCD22 Generator (M10 x
	510-0164	1	UC27 Generator				25mm)
14			*Ring, Retaining		800-3017-54	10	UC27 Generator (M12 x
	518-0122	1	UCD22 Generator				30mm)
	518-0083	1	UC27 Generator				
15	304-0807	1	*Varistor				
16	860-2006	2	*Nut, Hex (M5)				
17	232-3695	1	*Hub, Drive – UC27 Generator				
18	850-2005	2	*Washer, Lock – Spring (M5)				
19	718-1039	2	*Washer, Flat (M5)				

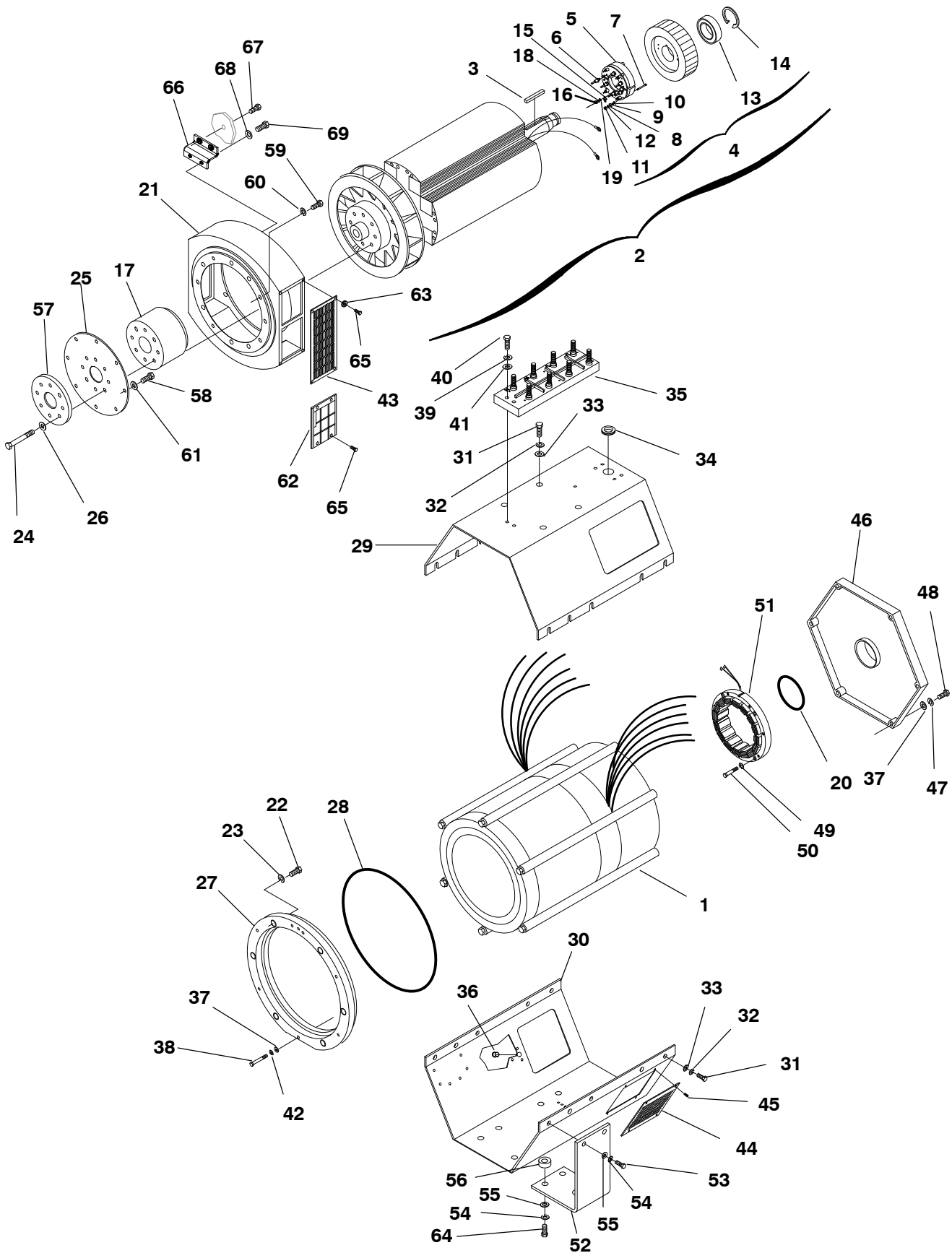
* – Parts Included in Generator Rotor Assemblies

– Parts Included in Exciter Rotor Assemblies

+ – Parts Included in Rectifier Assemblies

Continued...

Generator



Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				53			Screw, Cap – Hex Head
				800–3017–39	4		UCD22 Generator (M10 x 35mm)
32			Washer, Lock – Spring	800–2543–05	4		UC27 Generator (M12 x 40mm)
	850–0114–55	10	UCD22 Generator (M10)	54			Washer, Lock – Spring
	850–0114–56	10	UC27 Generator (M12)		850–0114–55	8	UCD22 Generator (M10)
33			Washer, Flat		850–0117	8	UC27 Generator (M12)
	526–0399–62	10	UCD22 Generator (M10)	55			Washer, Flat
	526–0399–64	10	UC27 Generator (M12)		526–0077	8	UCD22 Generator (M10)
34	508–1057	1	Grommet		526–0433	8	UC27 Generator (M12)
35	232–3421	1	Block, Terminal	56			Spacer, Mounting Foot
36	517–0135	1	Plug, Hole		232–3730–03	4	UCD22 Generator
37			Washer		232–3730–04	4	UC27 Generator
	232–3441	12	UCD22 Generator – Special	57	232–3960	1	Plate, Pressure – UCD22 Generator
	526–0077	12	UC27 Generator – Flat (13/32" ID x 1–1/4" OD x 1/4" Thk)	58	805–0015	8	Bolt, Place (3/8–16 x .75")
38	800–3017–38	6	Screw, Cap – Hex Head (M10 x 30mm) – UC27 Generator	59			Screw, Cap – Hex Head
39	850–2008	3	Washer, Lock – Spring – UC27 Generator (M8)		718–1055	10	UCD22 Generator (M10 x 1.5 x 30)
40	718–1039	3	Screw, Cap – Hex Head (M8 x 35mm)		800–2088	12	UC27 Generator (M10 x 35mm)
41	526–2100	3	Washer, Flat (M8)	60	850–2010	12	Washer, Lock – Spring (M10)
42	850–0114–55	6	Washer, Lock – Spring (M10)	61	526–0174	8	Washer, Flat (3/8")
43			Guard, Fan – Generator	62	234–0981	2	Guard, Fan – Generator – Lower – UCD22 Generator
	234–0990	2	UCD22 Generator – Upper	63	526–0399–11	8	Washer, Flat – UCD22 Generator (#10)
	234–0867	2	UC27 Generator	64			Screw, Cap – Hex Head
44			Screen, Air Inlet		800–3017–41	4	UCD22 Generator (M10 x 45mm)
	234–0878	2	UCD22 Generator		800–2543–05	4	UC27 Generator (M12 x 40mm)
	234–0879	2	UC27 Generator	65			Screw, Self–Locking – Hex Washer Head
45	821–6001–02	8	Screw, Self–Locking – Hex Washer Head (M5 x 12mm)		821–6001–02	16	UCD22 Generator (M5 x 12mm)
46			Bell, End		821–6001–01	8	UC27 Generator (M5 x 10mm)
	211–0422	1	UCD22 Generator	66	148–1172–02	1	Bracket, Fuel System
	211–0423	1	UC27 Generator	67	821–6003–03	2	Screw, Head (M8 x 1.25 x 25)
47			Washer, Lock – Spring	68	526–0174	2	Washer, Flat (3.4)
	850–0114–54	6	UCD22 Generator (M8)	69	718–1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
	850–0114–55	6	UC27 Generator (M10)	70	205–0248	1	Fan, Generator
48			Screw, Cap – Hex Head	71	515–0298–02	1	#Key–Mach (Exctr)
	800–3017–20	6	UCD22 Generator (M8 x 25mm)				
	800–3017–38	6	UC27 Generator (M10 x 30mm)				
49	850–2006	4	Washer, Lock – Spring (M6)				
50	800–2042	4	Screw, Cap – Hex Head (M6 x 60)				
51	220–4293–05	1	Stator, Exciter				
52			Bracket, Mounting – Generator Foot				
	232–3940	2	UCD22 Generator				
	232–3925	2	UC27 Generator				

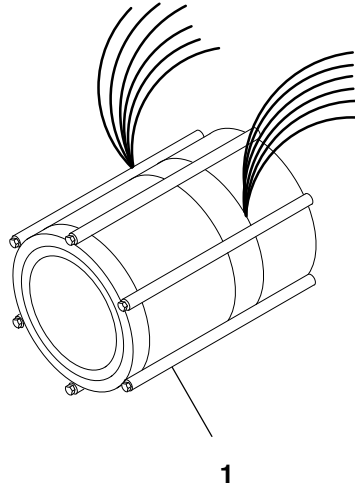
* – Parts Included in Generator Rotor Assemblies

– Parts Included in Exciter Rotor Assemblies

+ – Parts Included in Rectifier Assemblies

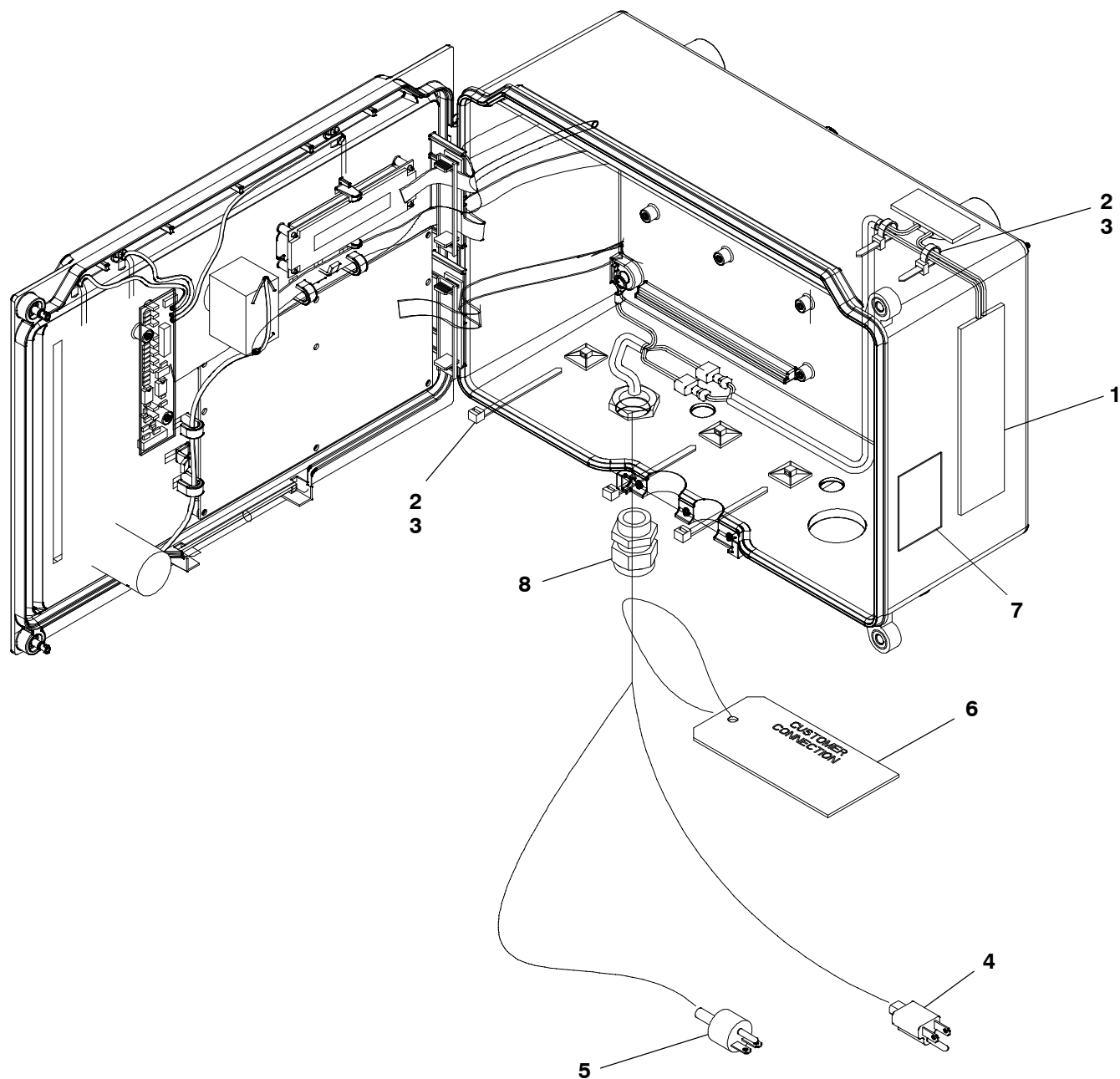
NOTE: If the first position of the alternator serial number is M, the replacements for the rotor and stator are no longer available. Please contact the factory Technical Support for more information.

Generator Stator



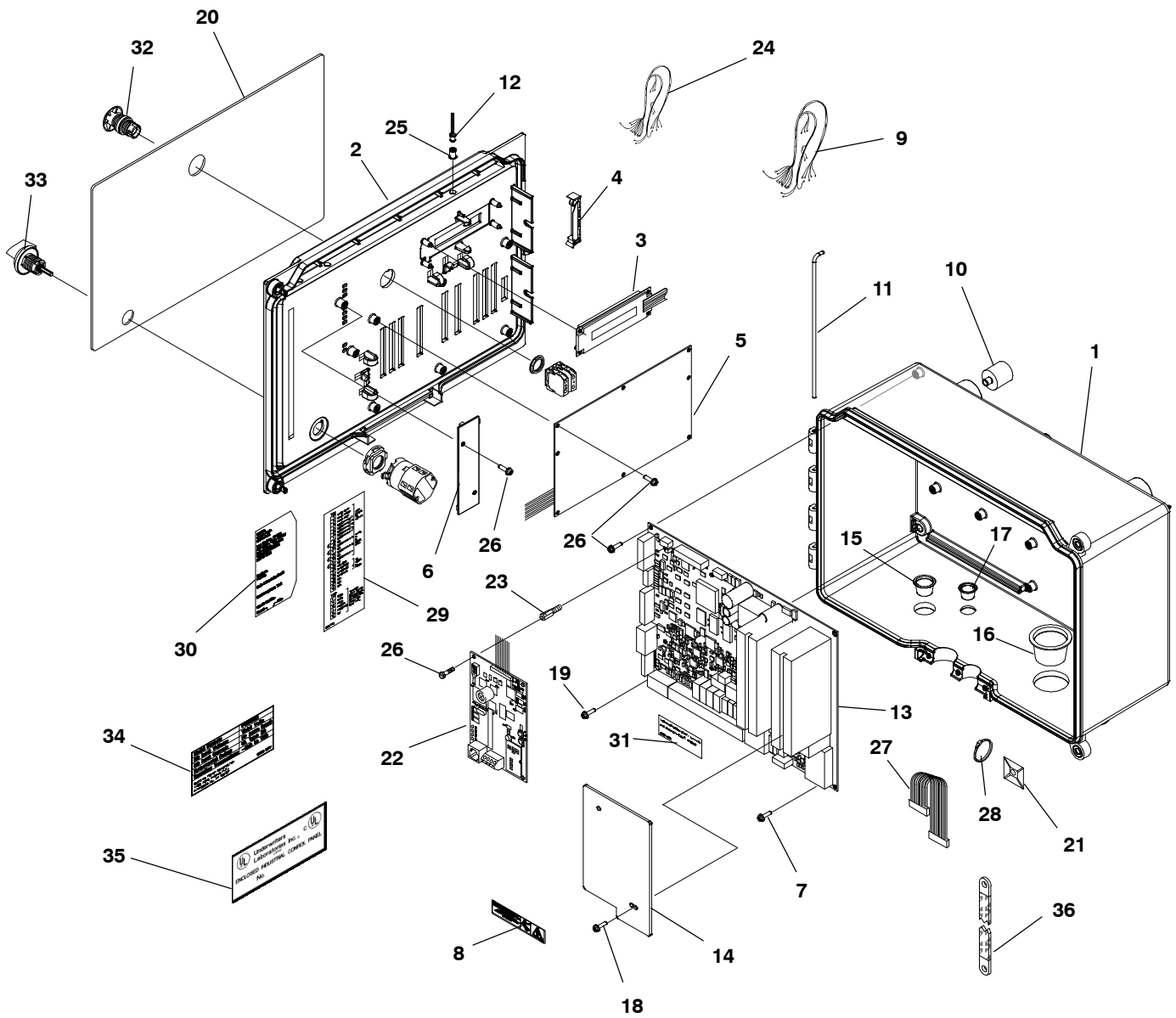
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator, Generator GGHE UCD22 Generator
	220-4447-09	1	240mm Stack Length, Winding Code 6
	220-4447-10	1	300mm Stack Length, Winding Code 6
	220-4447-14	1	240mm Stack Length, Winding Code 11
	220-4447-15	1	300mm Stack Length, Winding Code 11
	220-4447-19	1	240mm Stack Length, Winding Code 14
	220-4447-28	1	180mm Stack Length, Winding Code 17
	220-4447-29	1	240mm Stack Length, Winding Code 17
			UC27 Generator
	220-4448-14	1	190mm Stack Length, Winding Code 11
			GGHF UCD22 Generator
	220-4447-10	1	300mm Stack Length, Winding Code 6
	220-4447-15	1	300mm Stack Length, Winding Code 11
	220-4447-19	1	240mm Stack Length, Winding Code 14
	220-4447-20	1	300mm Stack Length, Winding Code 14
	220-4447-29	1	240mm Stack Length, Winding Code 17
	220-4447-30	1	300mm Stack Length, Winding Code 17
			UC27 Generator
	220-4448-07	1	165mm Stack Length, Winding Code 6
	220-4448-08	1	190mm Stack Length, Winding Code 6
	220-4448-13	1	165mm Stack Length, Winding Code 11
	220-4448-14	1	190mm Stack Length, Winding Code 11

Control Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0661-01	1	Heater, Control 120V	5	335-0173-01	1	Cable, Control Heater – 240V
	333-0661-02	1	240V	6	098-6195	1	Label, Caution
2	332-2420	3	Mount, Cable Tie	7	323-2003-02	1	Strain Relief
3	332-1445	3	Tie, Cable				
4	335-0173	1	Cable, Control Heater – 120V				

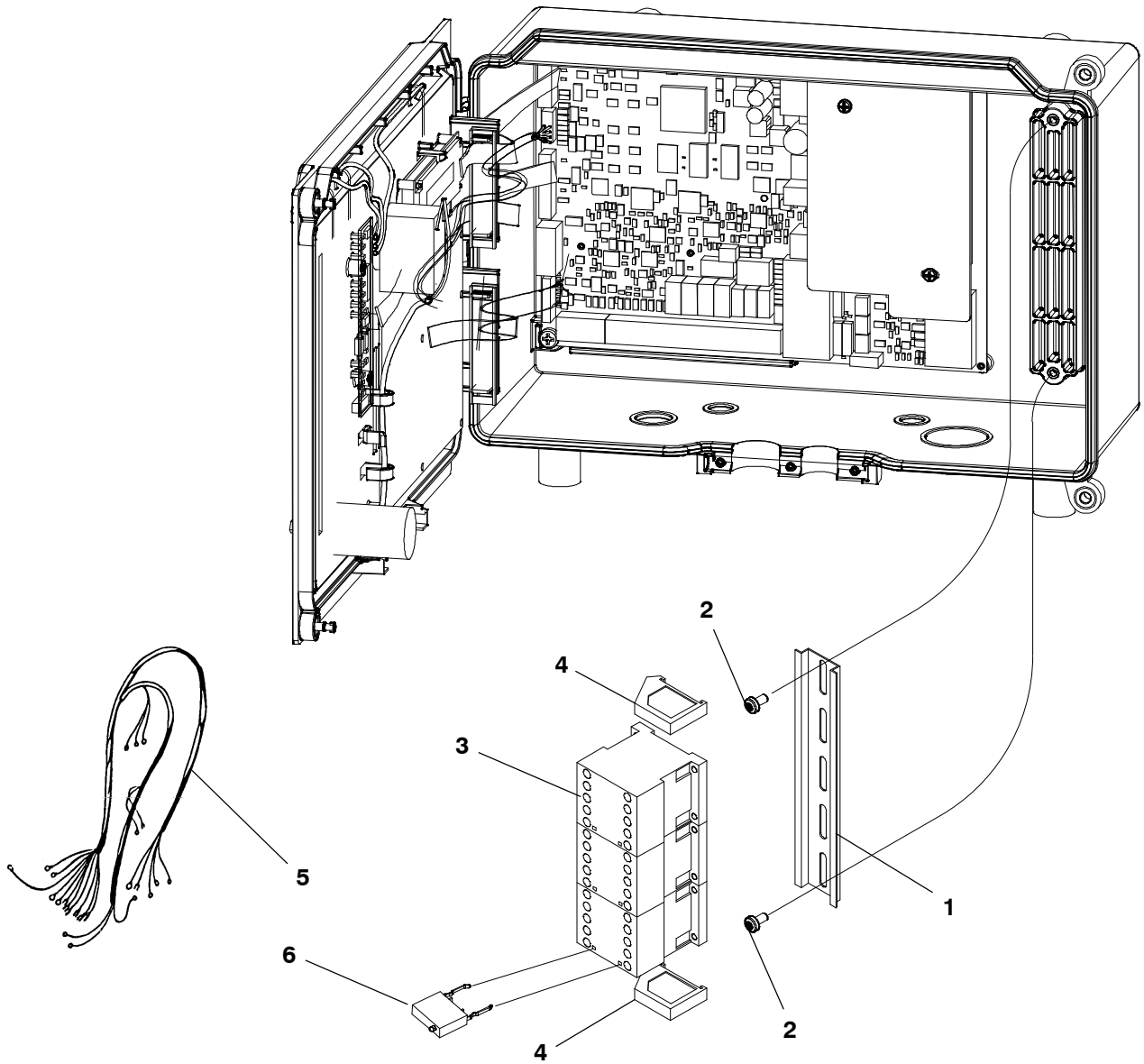
Control



Control

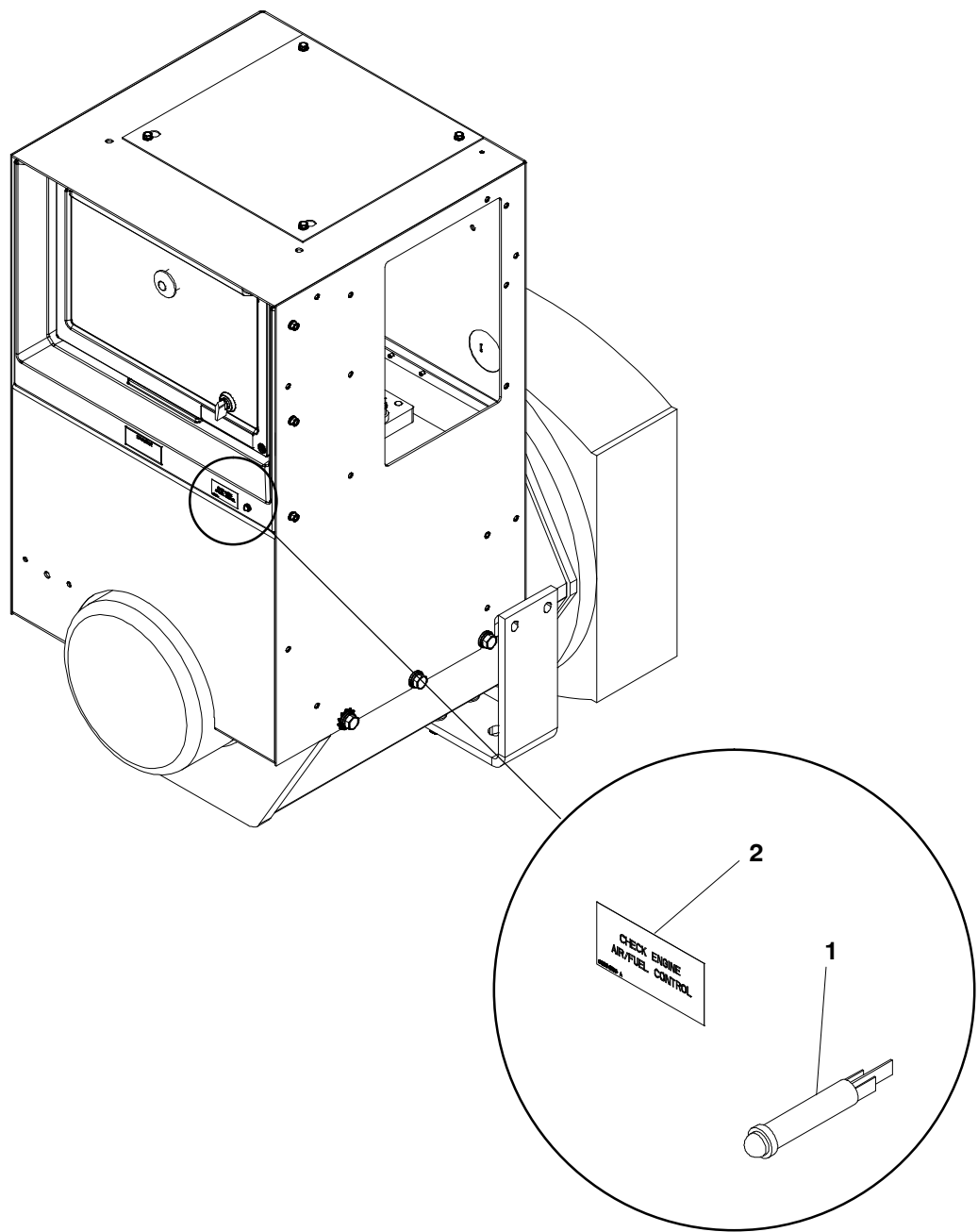
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4487	1	Box, Control	19	819-1144	2	Screw, Pan Head – Cross Recessed (M6 x 8)
2	319-4488	1	Door Control	20			Panel, Membrane
3	300-5467	1	Display, Digital				With Bargraph
4	332-3896	4	Clamp, Cable		319-5010	1	Without Bargraph
5	300-5180	1	Board, Printed Circuit – Bargraph	21	319-5011	1	Mount, Cable Tie
6	300-5383	1	Board, Printed Circuit – LED	22	332-2420	2	Board, Printed Circuit – NCM
7	819-1137-02	4	Screw, Pan Head – Cross Recessed (M3 x 8)	23	541-0770	1	Standoff, Hex Threaded – With NCM
8	098-7904	2	Label, Danger	24	870-2213-02	4	Harness, Panel Light
9	A040U800	1	Harness, Control – Door	25	338-3994	1	Lens, LED
10	402-0764-01	4	Mount, Isolator	26	322-0488	3	Screw, Pan Head – Cross Recessed (M3 x 6)
11	406-0845	1	Pin, Hinge				Without Bargraph
12	322-0491	3	Lamp, LED		819-1137-01	9	With Bargraph
13	327-1379-01	1	Board, Printed Circuit – Base (Includes Fuses)		819-1137-01	15	Cable, Ribbon
	321-0321-06	1	Fuse, Fast – 10A	27	335-0189	1	Tie, Cable
	321-0321-04	1	Fuse, Fast – 5A	28	332-0942	3	Label, Information
	321-0321-01	1	Fuse, Fast – 2A	29	098-7918	1	Label, Information – Panel Insert
14	319-6766	1	Guard, Electrical	30	098-7961-01	1	Label, Instruction – Torque
15	517-0356	1	Plug, Hole (Fits 22.5mm DIA. Hole)	31	098-7989	1	Switch, Emergency Stop
16	517-0357	1	Plug, Hole (Fits 38mm DIA. Hole)	32	308-0999	1	Switch, Selector
17	517-0355	2	Plug, Hole (Fits 16mm DIA. Hole)	33	308-1085	1	Label, Information – Rating
18	815-0792-02	2	Screw, Machine – Pan Head (M4 x 0.7 x 8)	34	098-8057	1	Label, UL
				35	098-6984	1	Strap, Bond
				36	337-0049	1	

Customer Relay



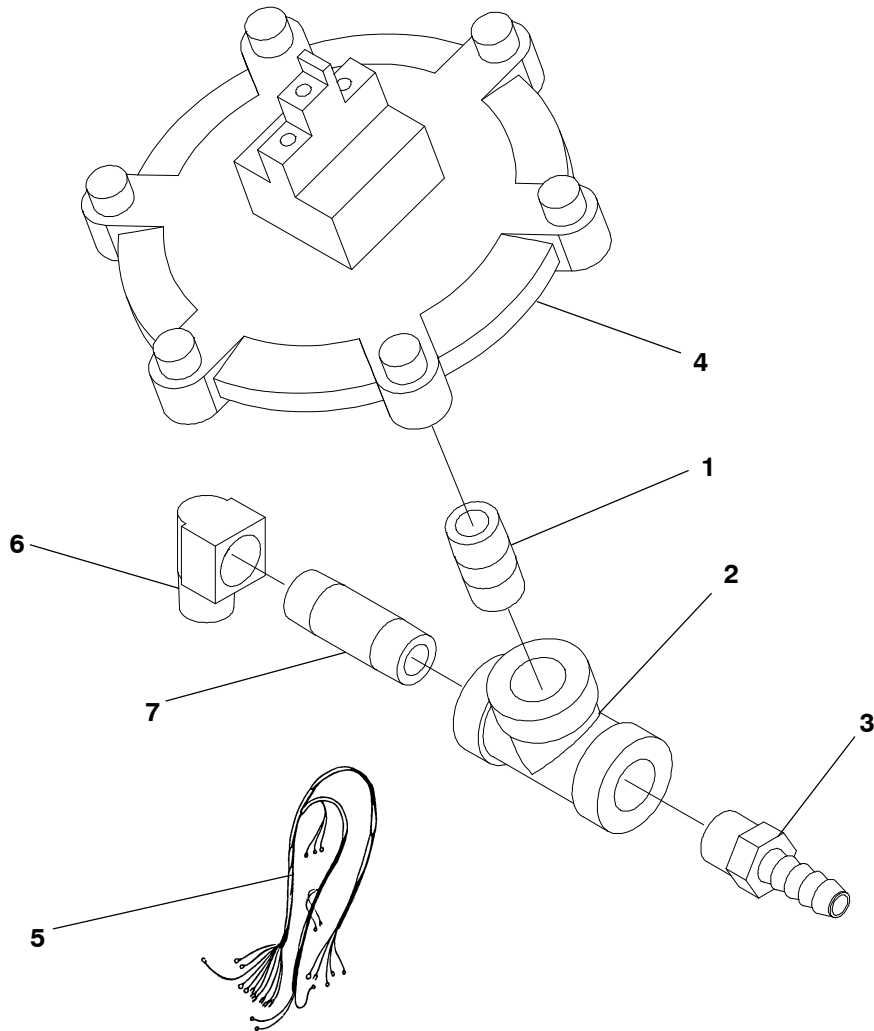
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-3842-01	1	Rail, Terminal Block	4	332-2878	2	Bracket, End - Terminal
2	819-1154	2	Screw, Pan Head - Cross Recessed (M5)	5	338-4438	1	Harness, Relay
3	307-2873	3	Relay, Control - 12V (K10, K11, K12)	6	305-1009	3	Suppressor, Voltage

Check Engine Lamp



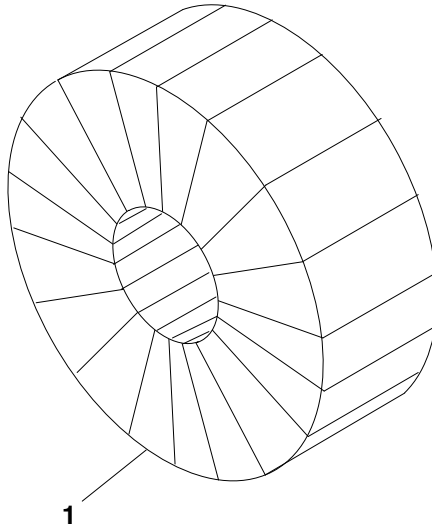
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	322-0508	1	LED - Red (12 Volt)	2	098-8155	1	Label, Warning

Vacuum Switch



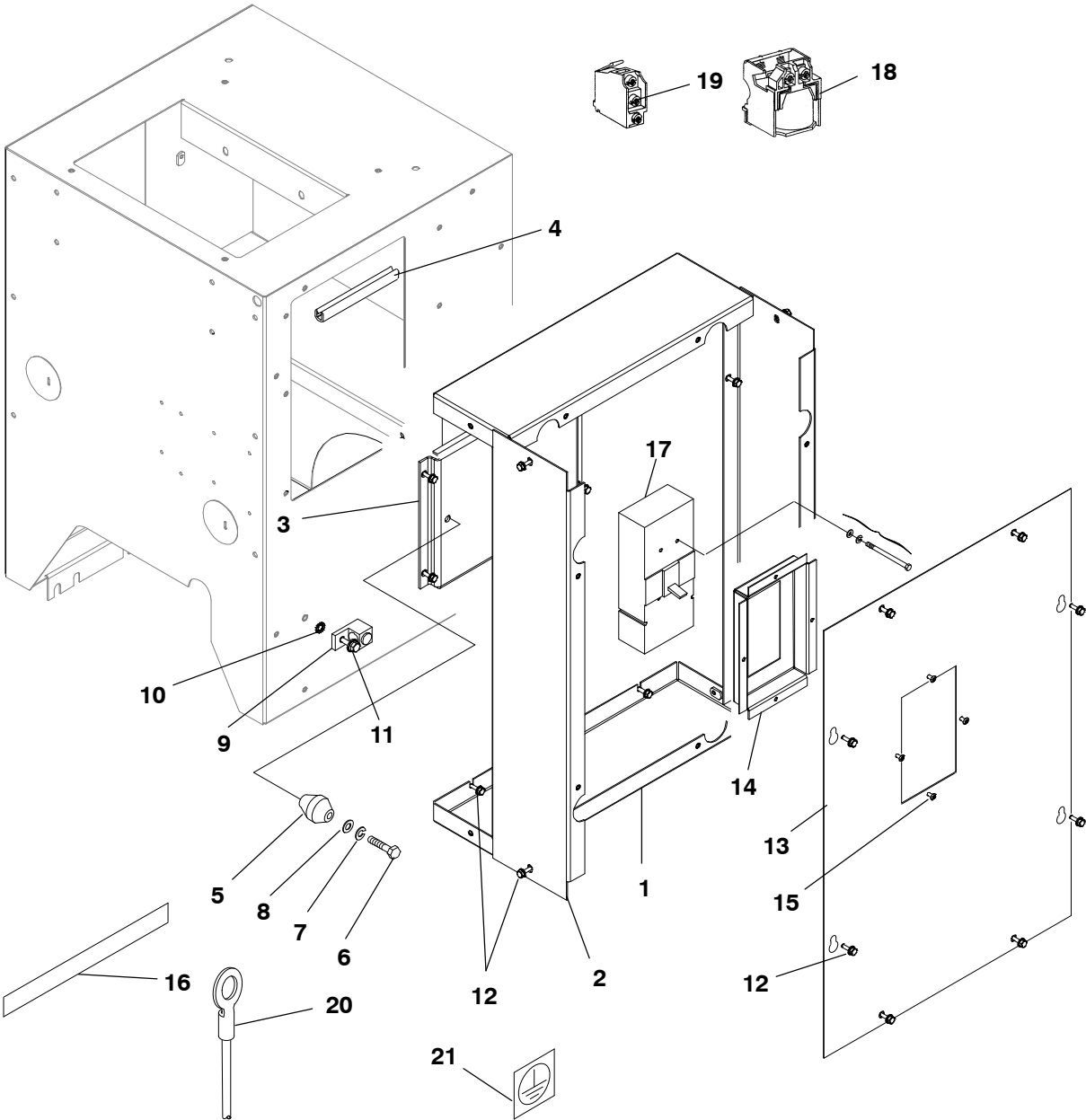
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0098	1	Nipple, Pipe (1/8 x .75)	5	338-3667	1	Harness, Vacuum Switch
2	505-0059	1	Tee, Pipe (1/8)	6	502-0020-01	1	Elbow, Pipe - Street (90°)
3	502-1299	1	Connector, Hose (1/8 x 3/16)	7	505-0326	1	Nipple, Pipe (1/8 x 1.125)
4	148-1099	1	Switch, Vacuum				

Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT1, CT2, CT3)				
	302-2057-45	3	243/1 or 486/1 Primary Ratio (12 Lead Alternator – Not 600V)				
	302-2057-46	3	278/1 or 556/1 Primary Ratio (GGHF – 12 Lead, 54-94kW 3Ph & 54-78kW 1 Ph)				
	302-2057-09	2	345/1 or 690/1 Primary Ratio (4 Lead, 48-97kW)				
	302-2058-24	3	194/1 Primary Ratio (6 Lead, 37-65kW or 600V, 47-103kW)				

Circuit Breaker



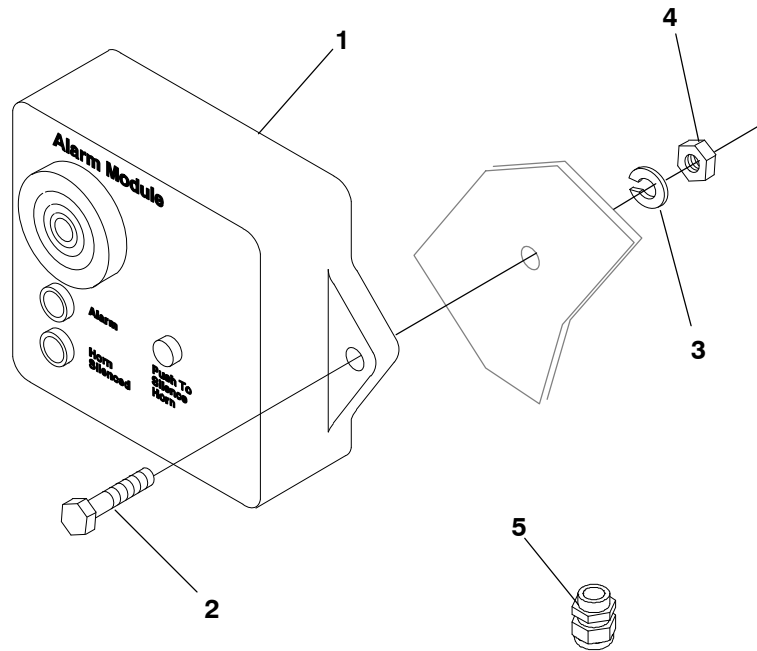
Circuit Breaker

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3072	2	Panel, Box – Top and Bottom		320-2346-19	1	40 Amp (600/750 Volts)
2	319-2978	2	Panel, Box – Side		320-2346-18	1	50 Amp (600/750 Volts)
3	319-5390-02	1	Bracket, Mounting – Circuit Breaker		320-2346-17	1	60 Amp (600/750 Volts)
4	508-0239	–	Edging – Bulk (Order By The Foot – 2 Feet Required)		320-2346-10	1	70 Amp (600/750 Volts)
5	332-2744-07	1	*Standoff, Insulator		320-2346-09	1	80 Amp (600/750 Volts)
6	800-0048	2	*Screw, Cap – Hex Head (3/8–16 x 3/4")		320-2346-08	1	90 Amp (600/750 Volts)
7	850-0050	2	*Washer, Lock – Spring (3/8")		320-2346-07	1	100 Amp (600/750 Volts)
8	526-0029	1	*Washer, Flat (3/8")		320-2346-06	1	125 Amp (600/750 Volts)
9	332-1473	1	Lug, Solderless		320-2346-05	1	150 Amp (600/750 Volts)
10	856-0008	1	Washer, Lock – EIT (5/16")		320-2347-04	1	175 Amp (600/750 Volts)
11	821-6003-02	1	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)		320-2347-03	1	200 Amp (600/750 Volts)
12	821-6002-03	24	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)		320-2347-02	1	225 Amp (600/750 Volts)
13	319-3151	1	Cover, Box		320-2347-01	1	250 Amp (600/750 Volts)
14			Cup		320-1960-06	1	300 Amp (600/750 Volts)
	319-3242	1	1–1/2" x 3–1/2" Opening	18	320-1960-05	1	350 Amp (600/750 Volts)
	319-3150	1	2–1/2" x 4–3/4" Opening	19	320-1960-04	1	400 Amp (600/750 Volts)
	319-3240	1	3" x 3–15/16" Opening				4 Pole (IEC)
15	818-0231-02	4	Rivet, Pop		320-1960-10	1	320 Amp (750 Volts)
17			Breaker, Circuit	20			Accessories, Circuit Breaker:
			2 Pole (UL)				Trip, Shunt (12V)
	320-2238-07	1	100 Amp (240 Volts)				Switch – Used as an
	320-2238-06	1	125 Amp (240 Volts)				Auxiliary Contact or Trip
	320-2238-05	1	150 Amp (240 Volts)				Alarm
	320-2238-04	1	175 Amp (240 Volts)				Lead (Quantity Used As
	320-2238-03	1	200 Amp (240 Volts)				Required)
	320-2238-02	1	225 Amp (240 Volts)		226-0893	1	3/8" Ring Terminal End to
	320-2238-01	1	250 Amp (240 Volts)				1" Stripped End – No
	320-1962-03	1	300 Amp (240 Volts)		226-3505-01	1	Markings (33") (#1/0
	320-1962-02	1	350 Amp (240 Volts)				Wire)
	320-1962-01	1	400 Amp (240 Volts)		226-3505-03	1	3/8" Ring Terminal End to
			3 Pole (UL)				3/8" Ring Terminal End
	320-2238-14	1	100 Amp (240 Volts)				– Marked "LO" (30") (#4
	320-2238-13	1	125 Amp (240 Volts)		226-3505-04	1	Wire)
	320-2238-12	1	150 Amp (240 Volts)				3/8" Ring Terminal End to
	320-2238-11	1	175 Amp (240 Volts)				3/8" Ring Terminal End
	320-2238-10	1	200 Amp (240 Volts)				– Marked "LO" (30")
	320-2238-09	1	225 Amp (240 Volts)	21	098-6537	1	(#1/0 Wire)
	320-2238-08	1	250 Amp (240 Volts)				Label, Ground
	320-1962-06	1	300 Amp (240 Volts)				
	320-1962-05	1	350 Amp (240 Volts)				
			3 Pole (UL & IEC)				
	320-2346-20	1	30 Amp (600/750 Volts)				

^ – Includes Mounting Hardware

* – Parts Used On Generator Sets With 2 or 3 Pole Circuit Breakers

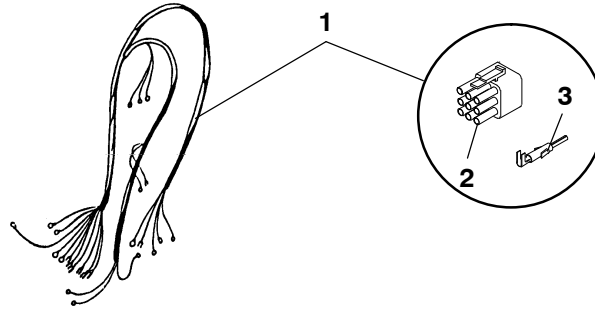
Alarm Module



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-3998-02	1	Module, Alarm (12V)
2	800-0006	2	Screw, Cap - Hex Head (1/4-20 x 7/8)

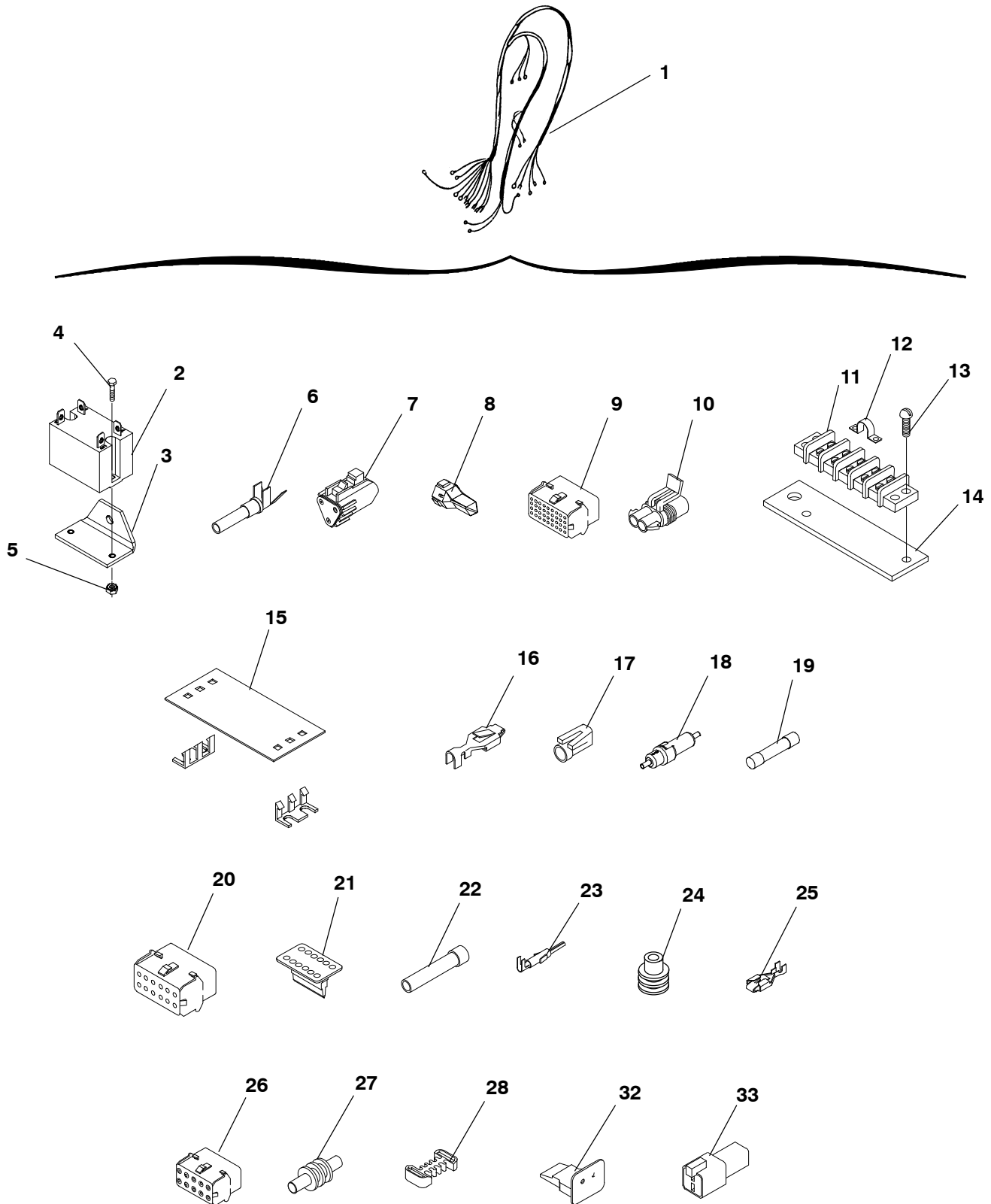
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	850-0040	2	Washer, Lock (1/4)
4	862-0001	2	Nut, Hex (1/4-20)
5	323-2003-01	1	Strain Relief

Wiring Harness AC Control



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	323–1523	1	Plug, Connector (24 Place)
	338–4185	1	Shunt	3	332–3790	9	Pin, Contact
	338–4180	1	PMG				

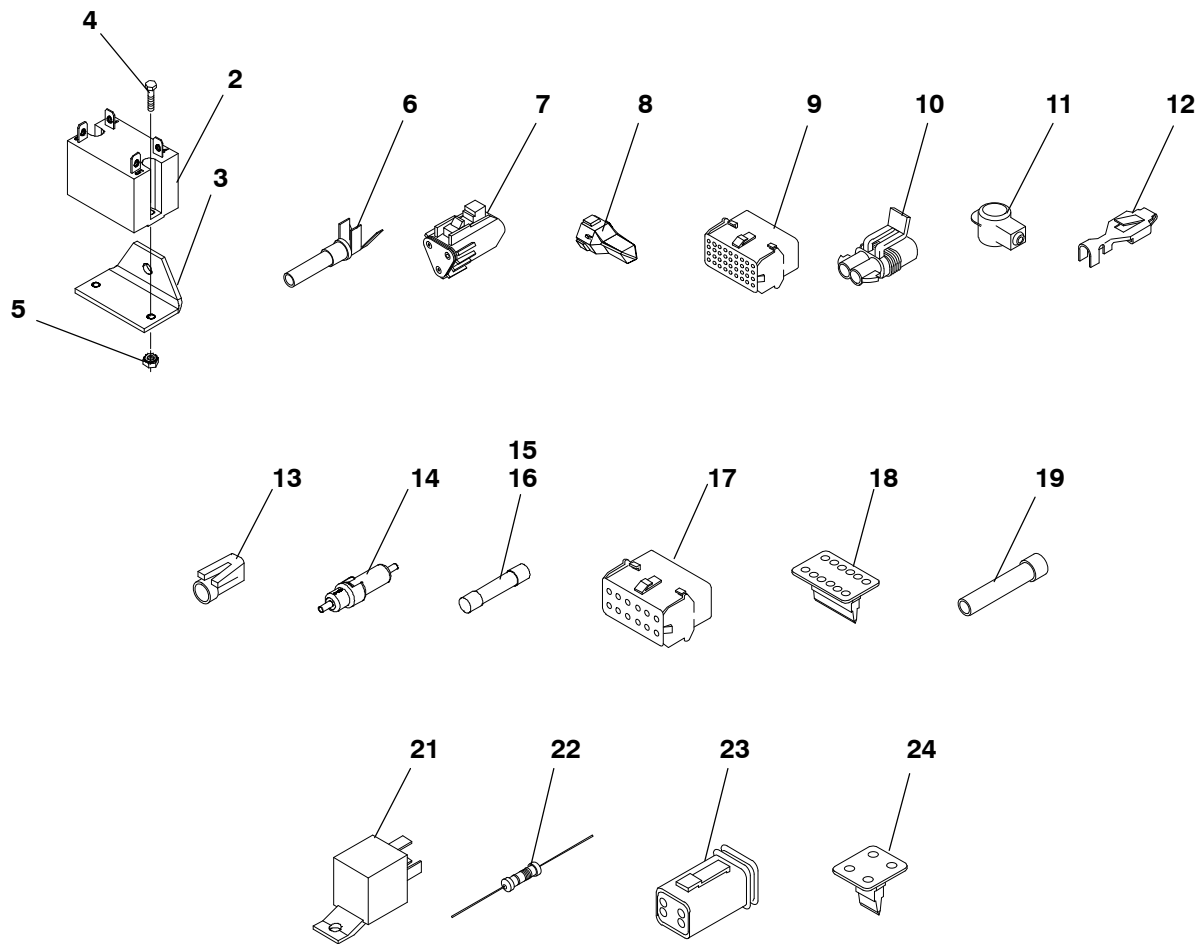
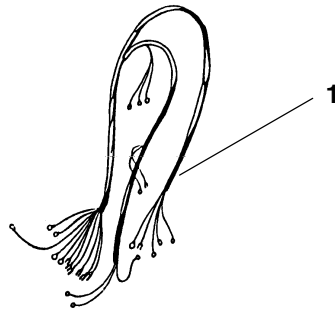
Engine Wiring Harness Spec E



Engine Wiring Harness Spec E

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4236	1	Harness, Wiring – Engine to Control (Includes Parts Listed Below)	16	323-1667	3	Socket, Terminal
2	307-2968-03	2	Relay, Power (12V)	17	323-1666	1	Connector, Socket
3	307-2982-02	2	Bracket, Relay	18	321-0371	1	Holder, Fuse
4	812-0079	4	Screw (#8-32 x .5)	19	321-0372-07	1	Fuse (20 Amp)
5	870-0221	4	Nut, Hex – W/ET (#8-32)	20	323-1582	2	Plug – 12 Pin
6	323-1492	18	Socket, Contact	21	323-1583	2	Wedge, Plug
7	323-1493	1	Connector, Plug	22	323-1591	12	Plug, Connector
8	323-1503	1	Wedge, Plug	23	323-1707	2	Terminal, Pin
9	323-1525	1	Connector – 36 Pin	24	323-1708	6	Seal, Cable
10	323-1755	1	Connector, Socket	25	323-1709	4	Terminal, Socket
11	332-0604	2	Block, Terminal	26	323-1710	1	Connector, Receptacle
12	332-1043	8	Jumper	27	323-1712	8	Seal, Cavity (P8)
13	815-0538	4	Screw, Cross Recessed – Pan Head – W/ET (#8-32 x .50)	28	323-1719	1	Lock, Housing
14			Bracket, Terminal Mounting	29	323-1818	2	Terminal, Socket (Not Illustrated)
	319-2006-01	1	Marked “26”	30	323-1975	1	Housing, Connector (Not Illustrated)
	319-2006-02	1	Marked “GND”	31	323-1976	1	Lock, Connector (Not Illustrated)
15	332-3792-01	1	Cover, Terminal Block (Includes Spring Clips)	32	323-1500	1	Wedge, Plug
				33	323-1504	1	Connector, Plug

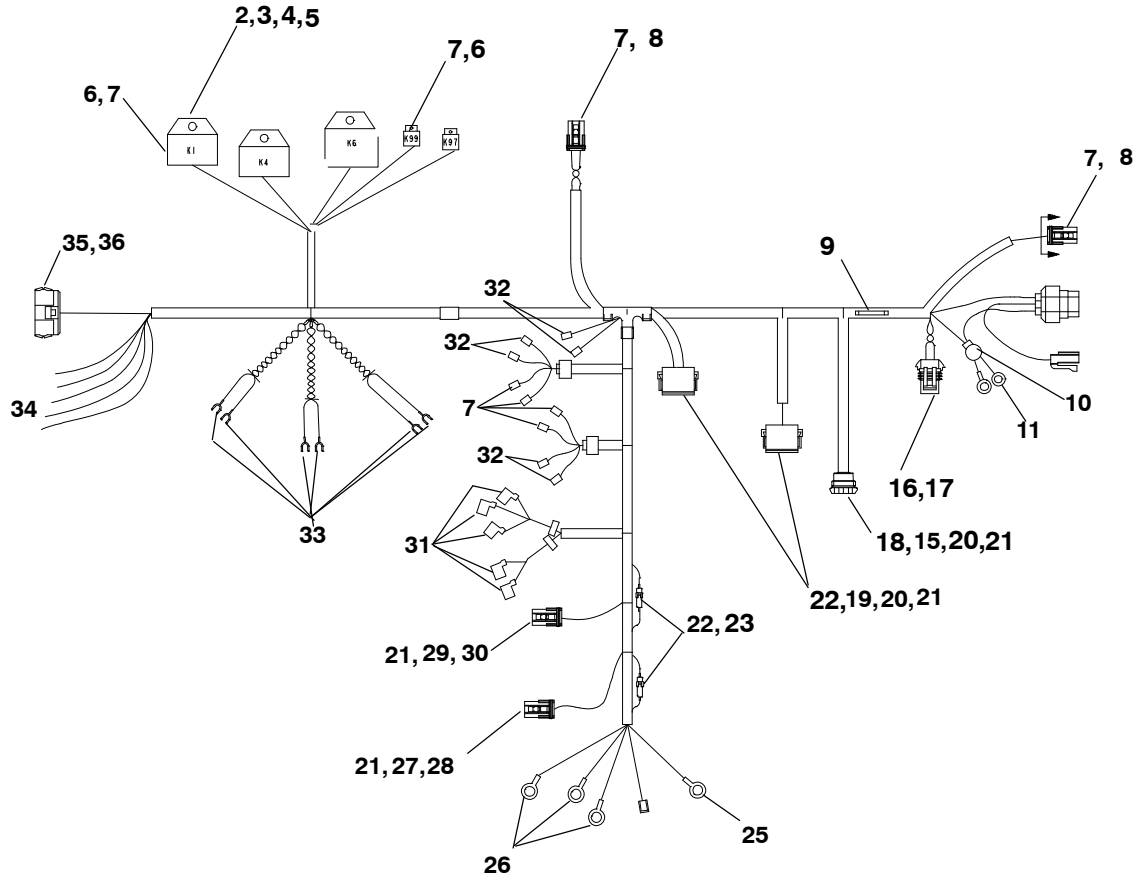
Engine Wiring Harness Spec F-H



Engine Wiring Harness Spec F-H

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-5050	1	Harness, Wiring – Engine to Control (Includes Parts Listed Below)	13	323-1666	2	Connector, Socketl (S7 & E1)
2	307-2968-03	3	Relay, Power (12V)	14	321-0371	2	Holder, Fuse
3	307-2982-02	3	Bracket, Relay	15	321-0372-06	1	Fuse (15 Amp)
4	812-0079	6	Screw (#8-32 x .5)	16	321-0372-07	1	Fuse (20 Amp)
5	870-0221	6	Nut, Hex – W/ET (#8-32)	17	323-1582	1	Plug – 12 Pin (A12)
6	323-1492	10	Socket, Contact (A12, P1, P8)	18	323-1583	1	Wedge, Plug (A12)
7	323-1493	1	Connector, Plug – 3 Pin	19	323-1591	9	Plug, Seal (A12)
8	323-1503	1	Wedge, Plug – 3 Pin	20	323-1818	2	Terminal, Socket (E2) (Not Illustrated)
9	323-1525	1	Connector – 36 Pin	21	307-2817-01	1	Relay (12V)
10	323-1755	1	Connector, Socket (E2)	22	350-0980	1	Resistor – 2W, 510Ω
11	416-1021-03	1	Boot	23	323-1546	1	Plug – 4 Pin
12	323-1667	6	Socket, Terminal (S7 & E1)	24	323-1548	1	Wedge, Plug – 4 Pin
				25	191-2176	1	Connector (P7) (Not Illustrated)

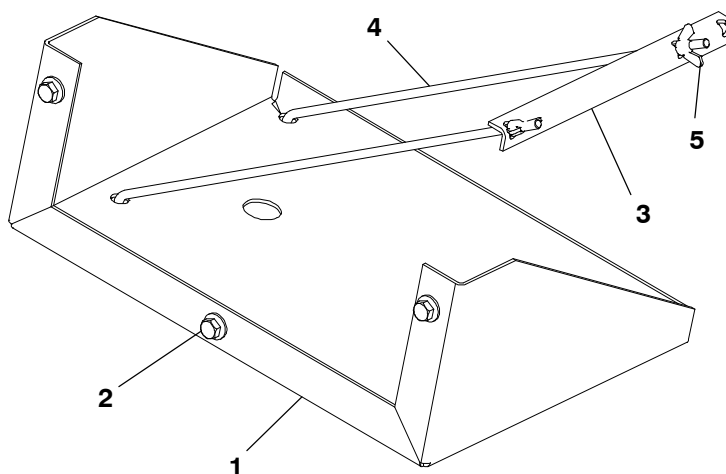
Engine Wiring Harness Begin Spec J



Engine Wiring Harness Begin Spec J

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A028U421	1	Harness, Wiring – Engine to Control (Includes Parts Listed Below)	20	323-1591	15	Plug, Seal
2	307-2968-03	3	Relay, Power (12V)	21	323-1492	16	Terminal, Socket (A12, A20, P1, P8, 16-18 AWG)
3	307-2982-02	3	Bracket, Relay	22	321-0371	2	Holder, Fuse Cartridge Type
4	812-0079	6	Screw (#8-32 x .5)	23	321-0372-06	1	Fuse (15 Amp)
5	870-0221	6	Nut, Hex – W/ET (#8-32)	24	321-0372-07	1	Fuse (20 Amp)
6	307-2817-01	2	Relay (12V)	25	332-1380	1	Terminal, Ring (5/16, 6 AWG)
7	323-1666	6	Connector, Socketl (S7 & E1)	26	332-0701	3	Terminal, Ring (1/2, 10-12 AWG)
8	323-1667	1	Socket, Terminal (S7 & E1)	27	323-1493	1	Connector, Plug (P8)
9	350-0980	1	Resistor – 2W, 510Ω	28	323-1503	1	Wedge, Plug (P8)
10	416-1021-03	1	Boot	29	323-1546	1	Connector, Plug (P1)
11	332-2697	1	Terminal, Ring (5/16, 18-22 AWG)	30	323-1548	1	Wedge, Plug (P1)
12	323-1755	1	Connector, Plug (E2)	31	332-2571	5	Terminal, Receptacle (18-20 AWG)
13	323-1818	2	Terminal, Socket (E2, 16-20 AWG)	32	332-2430	6	Terminal, Plug (18-20 AWG)
14	323-1975	1	Connector, Plug (P20)	33	332-2569	6	Terminal, Locking Spade (#8, 18-22 AWG)
15	323-1976	1	Lock, Connector (P20)	34	332-3491-01	5	Terminal, Wire Pin (18-20 AWG)
16	880-0283	4	Seal, Wire (P20)	35	323-1525	1	Connector, Plug (P7)
17	323-1709	4	Terminal, Socket (P20, 18-20 AWG)	36	332-3790	31	Terminal, Receptacle (P7, 14-18 AWG)
18	323-1582	2	Connector, Plug (A12, A20)				
19	323-1583	2	Wedge, Plug (A12, A20)				

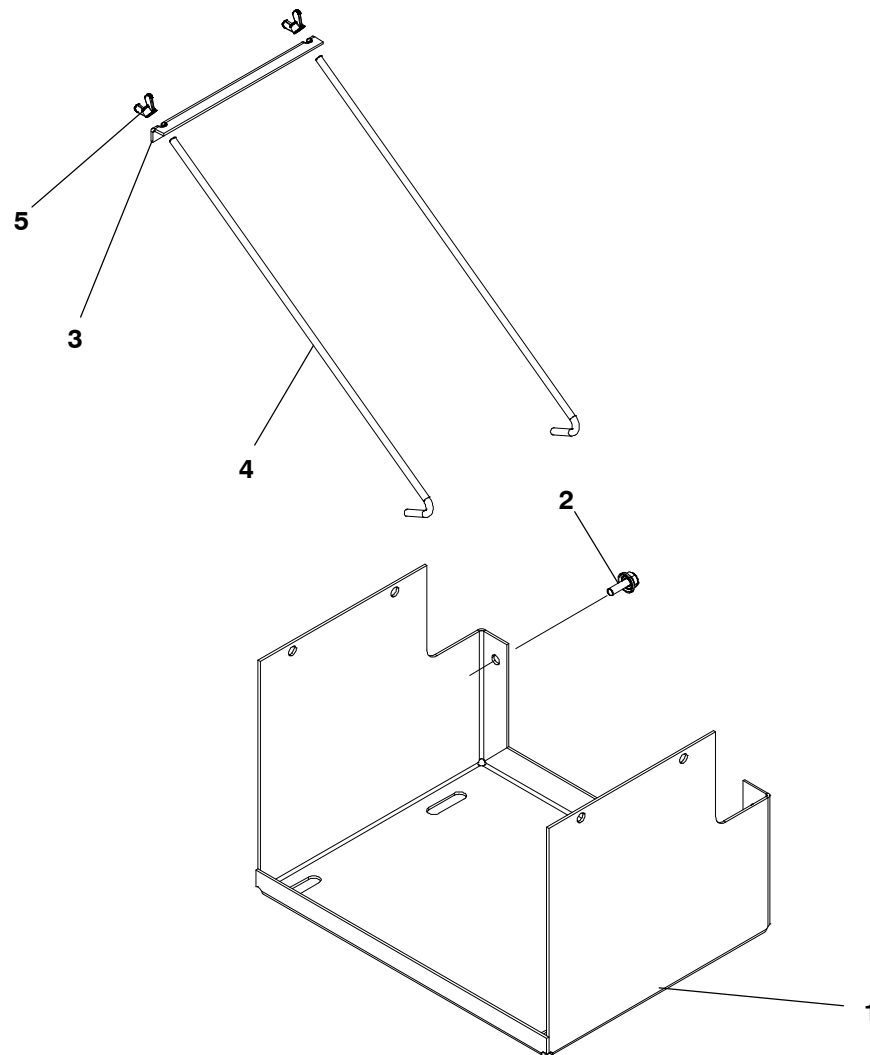
Battery Tray **For Non-UL 2200 Approved Generator Sets**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4267	1	Tray, Battery
2	821-6007-02	3	Screw, Hex Head (M8 x 1.25 x 20)

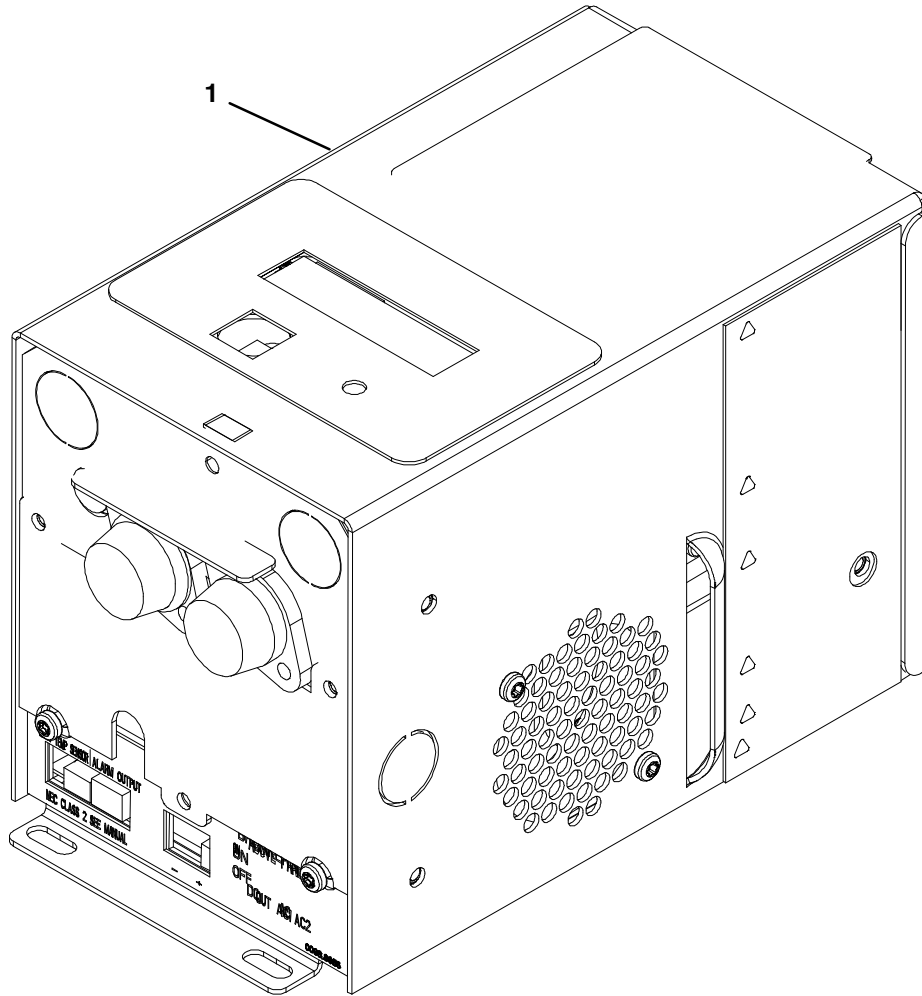
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	416-1033	1	Hold Down, Battery
4	416-0993-02	2	Rod, Hold Down - Battery
5	865-0030	2	Nut, Wing (M6)

Battery Tray **For UL 2200 Approved Generator Sets**



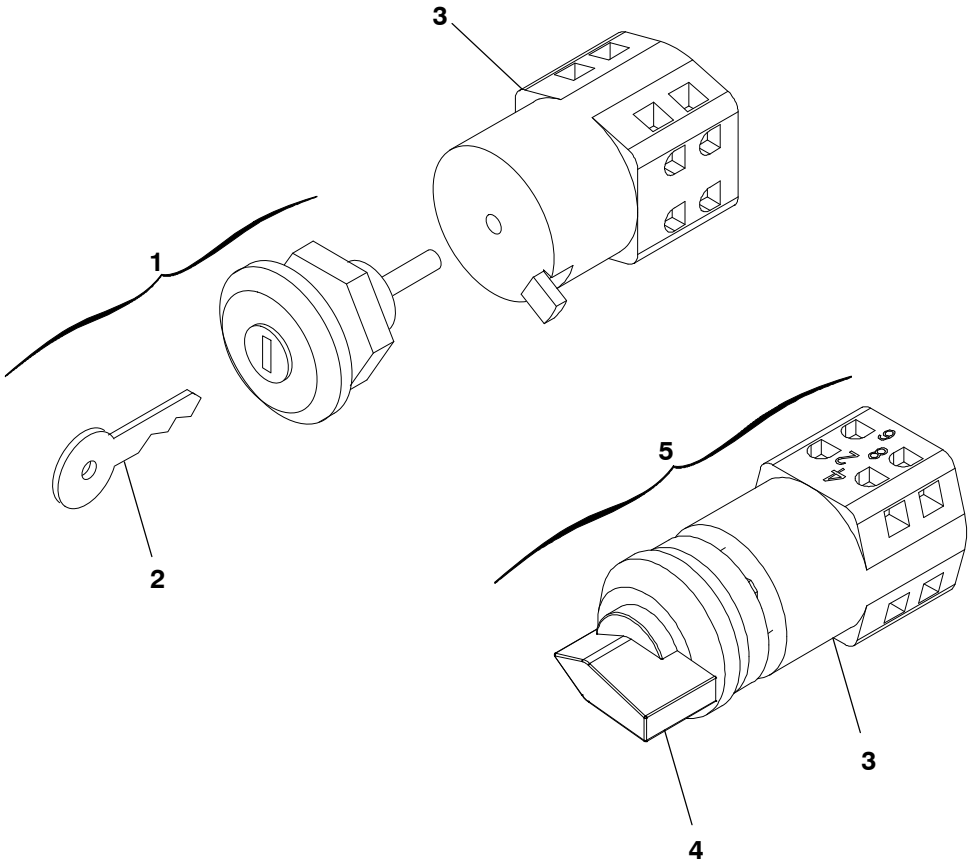
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	416-1100-02	1	Tray, Battery	3	416-1103-02	1	Hold Down, Battery
2	821-6003-02	3	Screw, Hex Head (M8 x 1.25 x 20)	4	416-0993-02	2	Rod, Battery Hold Down
				5	865-0030	2	Nut, Wing

8. Battery Charger 15/12 Amp, 12/24 Volt



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Charger, Battery				
	300-5878-01	1	15A (12V)/12A (24V),		300-5878-05	1	15A (12V)/12A (24)
	300-5878-02	1	15A (12V)/12A (24V)		300-5878-06	1	15A (12V)/12A (24)
	300-5878-03	1	15A (12V)/12A (24V)	2	541-0918	1	Kit, Battery Sensor
	300-5878-04	1	15A (12V)/12A (24)				(item not shown)

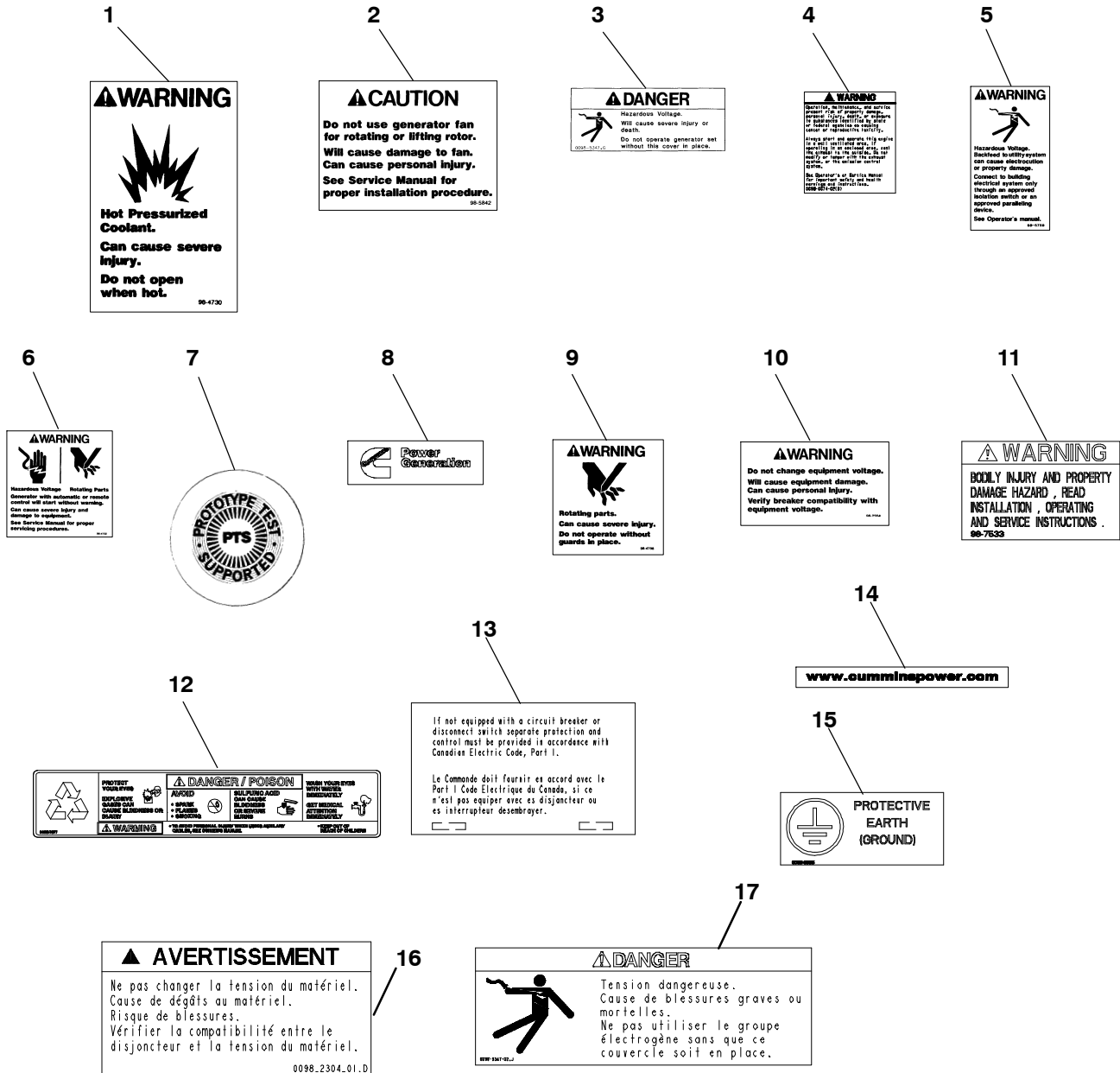
Operator Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	308-1045	1	Switch, Key Operator
2	308-1046	2	Key – Spare (Key Only)
3	308-0998	1	Switch, Selector

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	308-1162	1	Knob, Replacement
5	308-1085	1	Switch, Selector

Labels



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-4730	A/R	Label, Warning	9	098-4798	A/R	Label, Warning
2	098-5842	A/R	Label, Caution	10	098-2304	A/R	Label, Warning
3	098-5347	A/R	Label, Danger	11	098-7533	A/R	Label, Warning
4	098-6074-02	A/R	Label, Warning	12	098-7877	A/R	Label, Battery Warning
5	098-5759	A/R	Label, Warning	13	098-8445	A/R	Label, Information
6	098-4732	A/R	Label, Warning	14	098-8220	A/R	Label, Information
7	098-4500	A/R	Label – Prototype Tested	15	098-6635	A/R	Label, Ground
8	098-7902-02	A/R	80mm x 248mm	16	098-2304-01	A/R	Label, Warning
	098-7902-03	A/R	100mm x 310mm	17	098-5347-02	A/R	Label, Danger

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