



Parts Manual

Generator Set

with PowerCommand® 2100 Controller
and Basic Control

GGLA (Spec A–J)

GGLB (Spec A–J)

MODEL IDENTIFICATION

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 catalog applies to Cummins Power Generation Generator Model GGLA and GGLB 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 to the same reference number in the parts list. Parts illustrations are typical. Unless otherwise mentioned in the description or page heading, parts are interchangeable between models. Throughout this catalog left and right sides are determined by facing the engine end (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 manufacturer's name-plate and supplying all available information. Contact your nearest engine parts distributor for assistance in ordering replacement parts.

Note : For engine parts not listed , please contact supplier PSI at 630-350-9400.

Replacement Engine

Cummins Power Generation Generator Model	GM Engine Model
GGLA	8.1 L Turbo Charged
GGLB	8.1 L Turbo Charged and CAC

Generator Set Data Table

Model and Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
125GGLA*	125,000	#	60	3, 4	1 or 3	12VDC
140GGLB*	140,000	#	60	3, 4	1 or 3	12VDC
150GGLB*	150,000	#	60	3, 4	1 or 3	12VDC

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

– Broad Range Reconnectible.

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Abbreviations

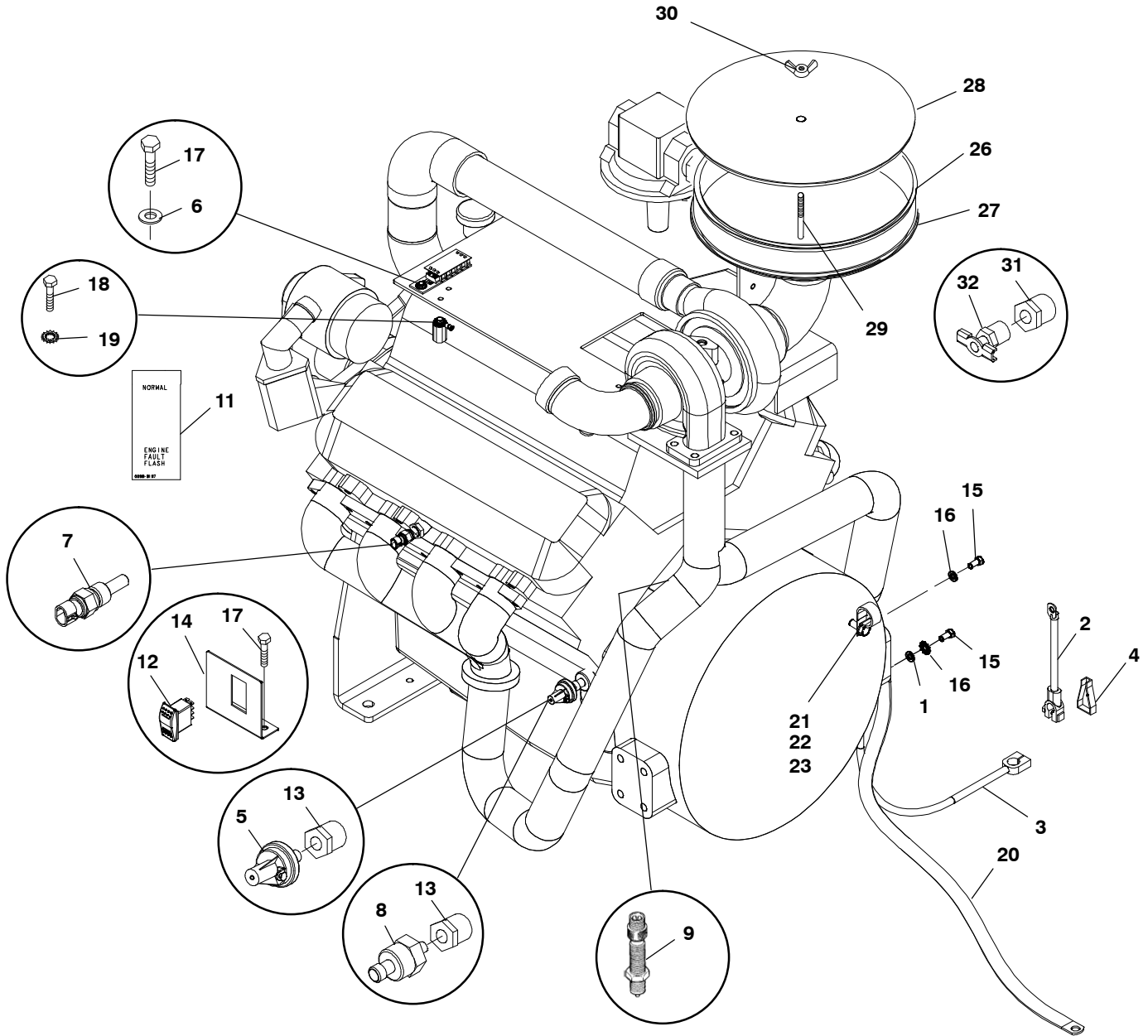
Some of the following abbreviations may be used throughout this Parts Catalog:

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

Paint and Thread Sealant

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

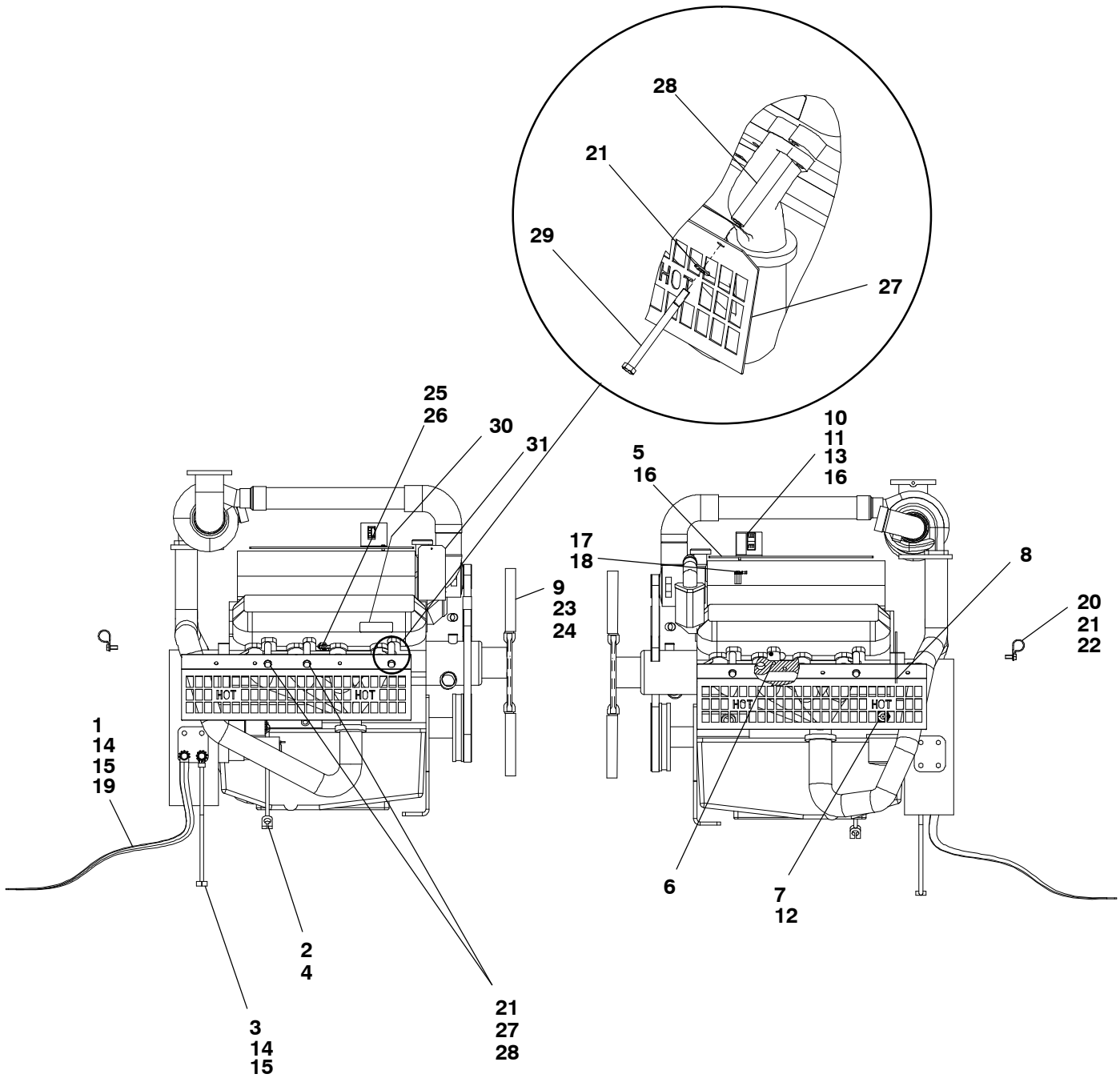
Engine Accessories Spec A-B



Engine Accessories Spec A, B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	856-0013	1	Washer, Lock – W/EIT (1/2)	18	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
2	416-0549-02	1	Cable, Battery	19	856-0006	1	Washer, Lock – Spring – W/EIT (1/4)
3	416-0549-01	1	Cable, Battery	20	337-0090	1	Strap, Electrical
4	416-1019	1	Boot, Battery	21	327-0923	1	Clamp, J
5	309-0641-16	1	Switch, Pressure (Basic Control)	22	526-2120	1	Washer, Flat (M10)
6	526-0018	1	Washer, Flat (17/64 x 5/8) (PCC 2100)	23	718-1054	1	Screw, Cap – Hex Head (M10 x 1.5 x 25)
7	193-0529-01	1	Sensor, Temperature (PCC2100)	24	850-2008	4	Washer, Lock – Split (M8) (Used With Radiator Fan – Not Shown)
8	193-0444	1	Sender, Oil Pressure (PCC2100)	25	800-2057	4	Screw, Cap – Hex Head (M8 x 1.25 x 20) (Used With Radiator Fan – Not Shown)
9	151-0433	1	Pick-Up, Magnetic (PCC2100)	26	140-3151	1	Element, Air Cleaner
10	130-6161	1	Fan, Radiator (Not Shown)	27	140-3726-02	1	Base, Air Cleaner
11	098-8197	1	Label, Information	28	140-3727-02	1	Cover, Air Cleaner
12	308-1171	1	Switch, Rocker (12V Light)	29	520-1005	1	Stud (1/4-20 x 1.5)
13	505-0395	1	Reducer, Bushing	30	865-0026	1	Nut, Wing – Nylon (1/4-20)
14	308-1172-02	1	Bracket, Switch	31	505-0018	1	Bushing, Reducer (1/2 x 1/4)
15	800-0090	2	Screw, Cap – Hex Head (1/2-13 x 1.00)	32	504-0003	1	Valve, Drain (1/4)
16	526-0433	2	Washer – Hardened (M12)	33	LF16109	1	Filter, Oil (Fleetguard) (Not Shown)
17			Screw, Cap – Hex Head (1/4-20 x 1/2)				
	800-0003	1	Basic Control				
	800-0003	2	PCC2100				

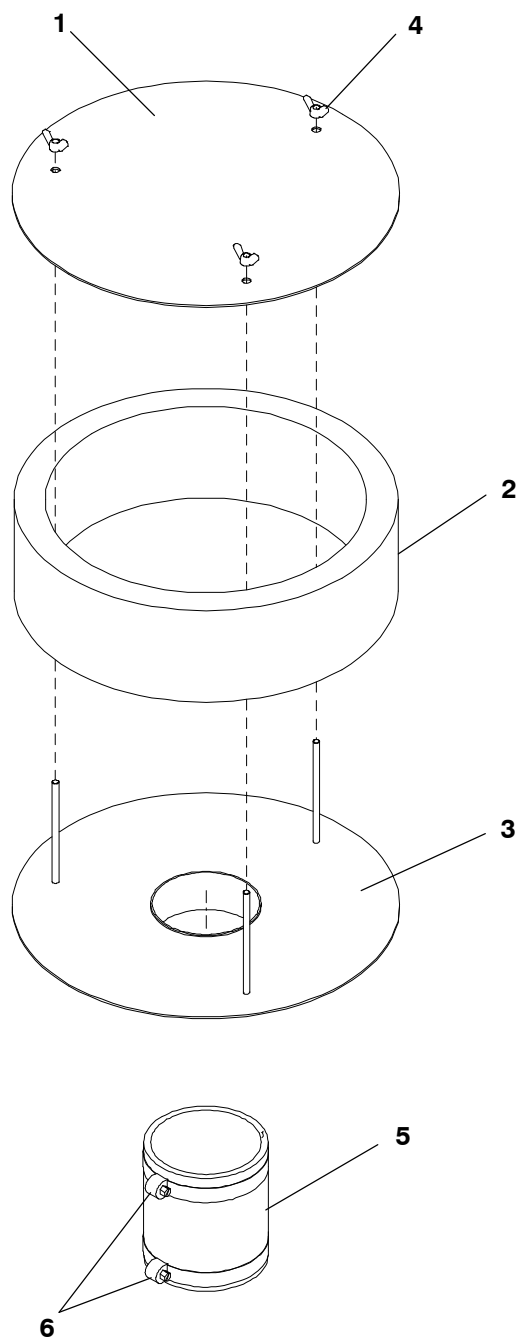
Engine Accessories Begin Spec C



Engine Accessories Begin Spec C

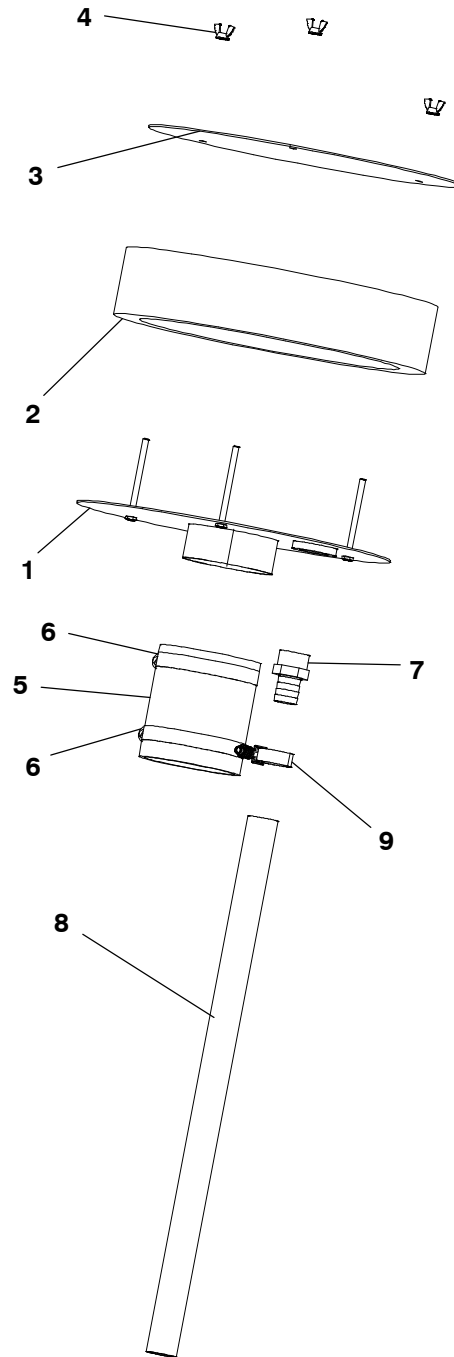
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	856-0013	1	Washer, Lock – W/EIT (1/2)	19	337-0090	1	Strap, Electrical
2	416-0549-02	1	Cable, Battery	20	327-0923	1	Clamp, J
3	416-0549-01	1	Cable, Battery	21	526-2120	7	Washer, Flat (M10)
4	416-1019	1	Boot, Battery	22	718-1054	1	Screw, Cap – Hex Head (M10 x 1.5 x 25)
5	526-0018	1	Washer, Flat (17/64 x 5/8)	23	850-2008	4	Washer, Lock – Split (M8) (Used With Radiator Fan – Not Shown)
6	193-0529-01	1	Sensor, Temperature	24	800-2057	4	Screw, Cap – Hex Head (M8 x 1.25 x 20) (Used With Radiator Fan – Not Shown)
7	193-0444	1	Sender, Oil Pressure	25	505-0018	1	Bushing, Reducer (1/2 x 1/4)
8	151-0433	1	Pick-Up, Magnetic	26	504-0003	1	Valve, Drain (1/4)
9	130-6161	1	Fan, Radiator	27	154-3179-02	2	Guard, Manifold
10	098-8197	1	Label, Information	28	130-6896-02	6	Spacer, Guard
11	308-1171	1	Switch, Rocker (12V Light)	29	800-6382-01	6	Screw, Hex Head (M10 x 1.5 x 120)
12	505-0395	1	Reducer, Bushing	30	098-8544	1	Label, Information
13	308-1172-02	1	Bracket, Switch	31	098-8545	1	Label, Information
14	800-0090	1	Screw, Cap – Hex Head (1/2-13 x 1.00)	32	LF16109	1	Filter, Oil (Fleetguard) (Not Shown)
15	526-0433	1	Washer – Hardened (M12)				
16	800-0003	2	Screw, Cap – Hex Head (1/4-20 x 1/2)				
17	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)				
18	856-0006	1	Washer, Lock – Spring – W/EIT (1/4)				

Air Cleaner Spec C-E



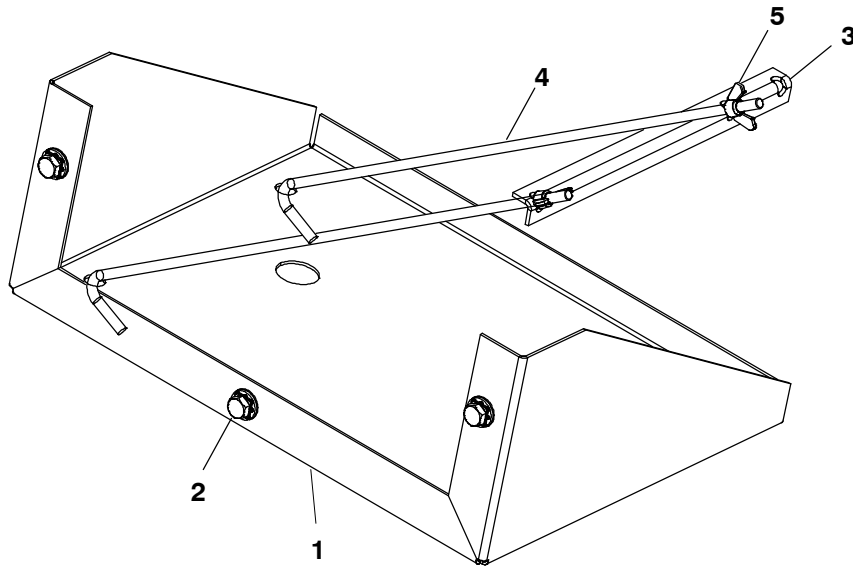
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3951-02	1	Cover, Air Cleaner	4	865-0026	3	Nut, Wing – Nylon (1/4-20)
2	140-3151	1	Filter, Element Air	5	503-1595	1	Hose, Radiator
3	140-3953-02	1	Base, Air Cleaner	6	503-1870-07	2	Clamp, Hose

Air Cleaner Begin Spec F



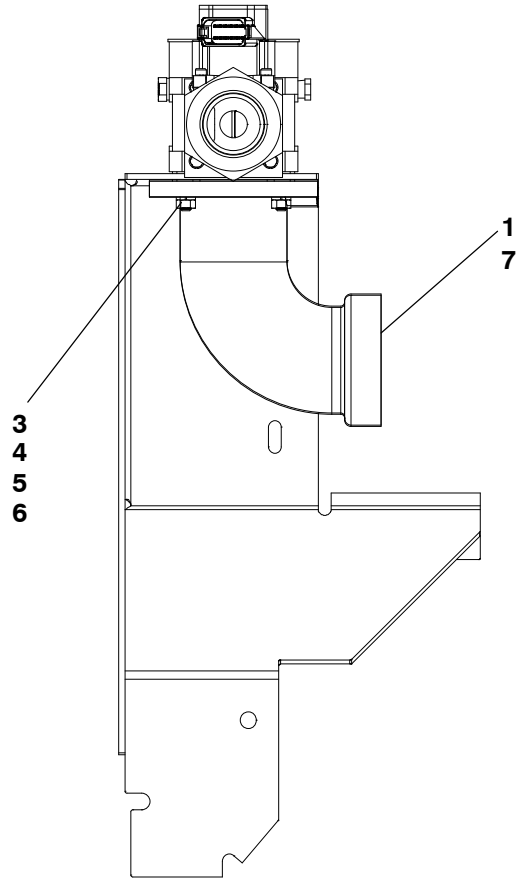
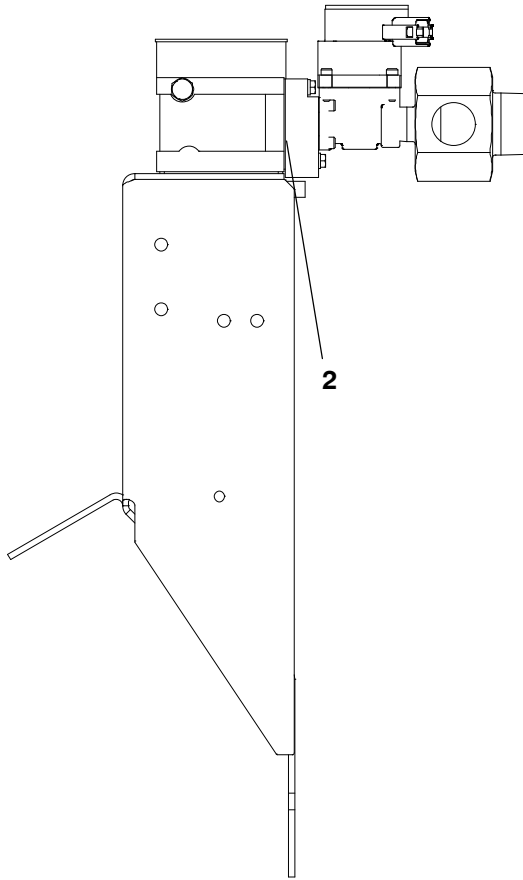
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A026G337	1	Base, Air Filter	6	503-1870-07	2	Clamp
2	140-3151	1	Filter, Air	7	502-1110-01	1	Fitting, Hose Connector
3	140-3951-02	1	Cover, Air Filter	8	503-2079	2.3	Hose, Oil Resistant
4	865-0026	3	Nut, Wing	9	503-2157-02	1	Clamp
5	503-1595	1	Hose, Radiator				

Battery Tray



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	416-1221-02	1	Tray, Battery	3	416-1033	1	Battery, Hold Down
2	821-6007-02	3	Screw, Hex Head Sems – Stainless (M8 x 1.25 x 20mm)	4	416-0993-02	2	Rod, Battery Hold Down
				5	865-0030	2	Nut, Wing

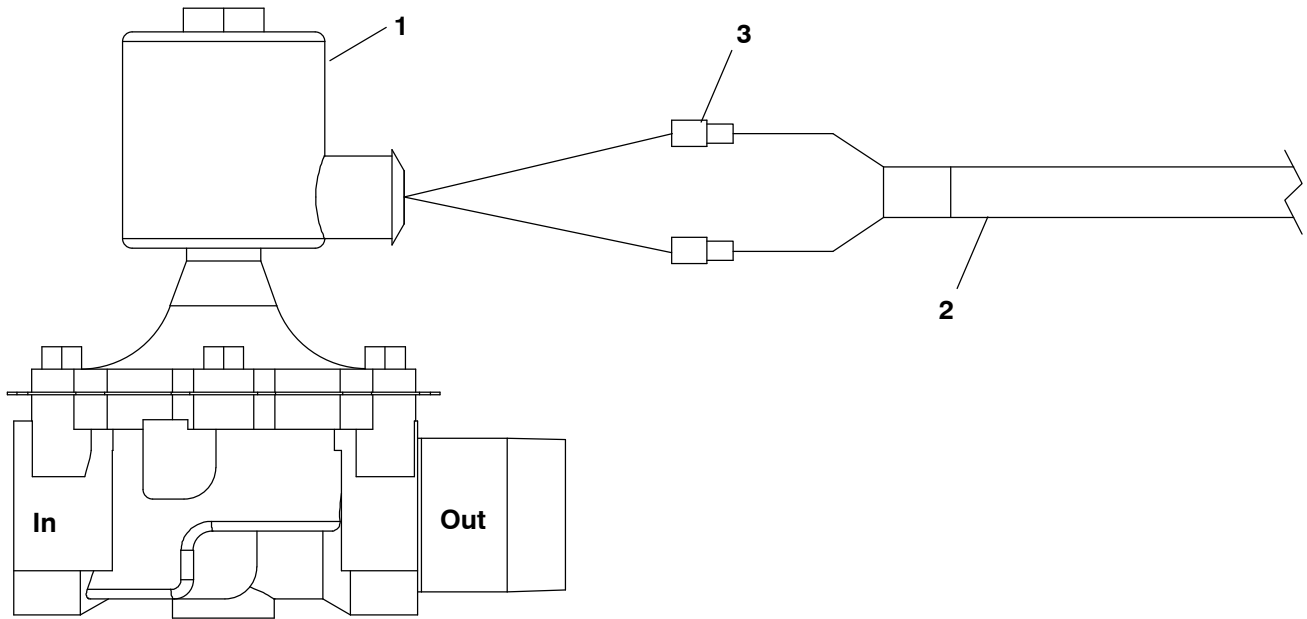
Fuel System **Service Parts Common to All Spec F Fuel Systems**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3215	1	Elbow, Intake
2	A029A407	1	Gasket, Mixer to Adapter
3	862-0026-55	4	Nut, Hex (M8)
4	526-2100	4	Washer, Flat (M8)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	850-0114-54	4	Washer, Lock
6	802-2537	4	Screw, Socket Head
7	505-0057	1	Plug, Pipe Square Head (1/8)

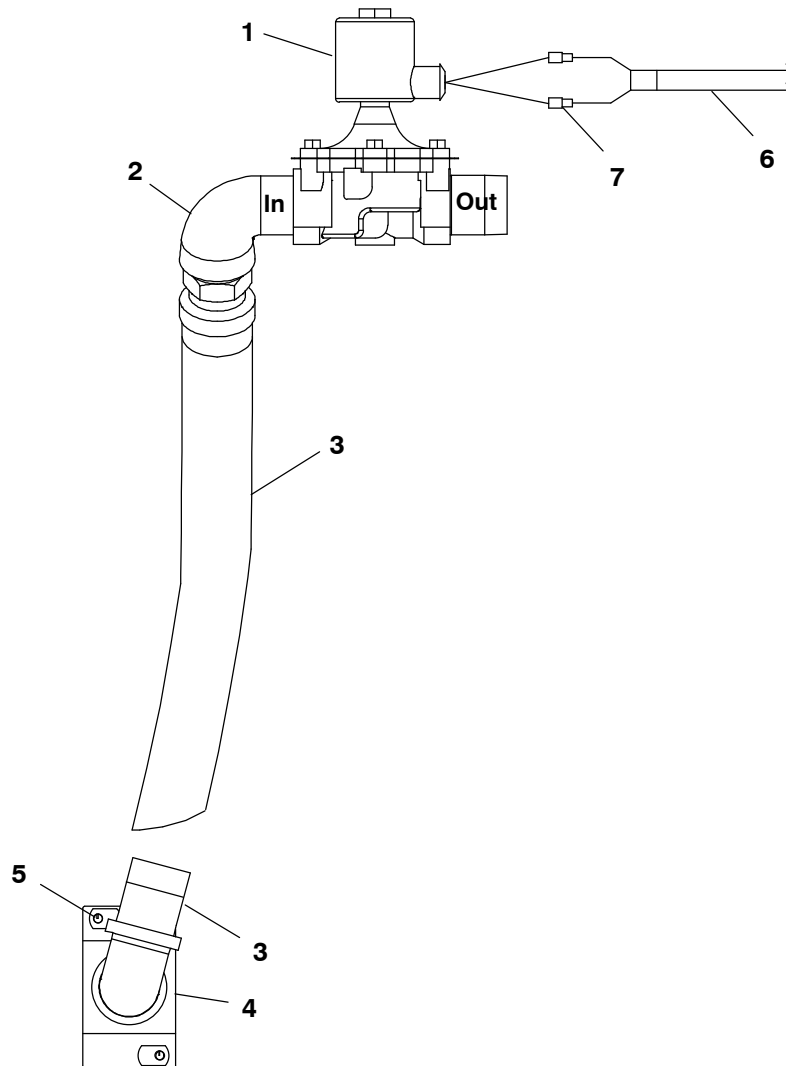
**Fuel System
GGLA
Spec A, B**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	504-0253	1	Valve, Solenoid
2	338-4404	1	Harness, Switch

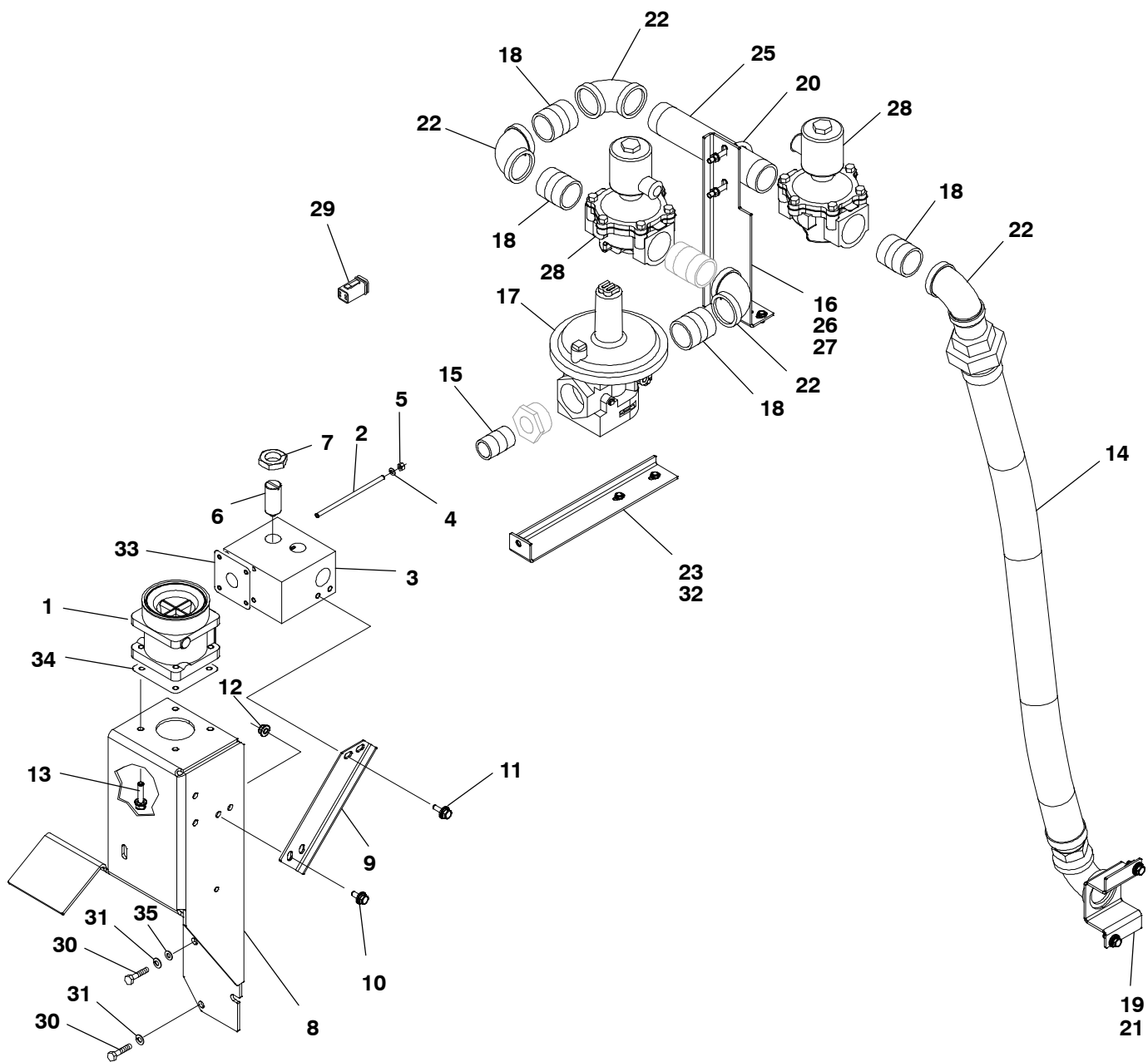
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	332-2431	2	Terminal

Fuel System
GGLB Standard, GGLA Optional
Spec A, B



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	504-0253	1	Valve, Solenoid	5	821-6007-02	2	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20mm)
2	505-0462	1	Elbow, Street 90° (1-1/2NPT)	6	338-4404	1	Harness, Switch
3	501-0776-05	1	Line, Fuel (Flex)	7	332-2431	2	Terminal
4	512-0288-02	1	Coupling (Includes Mounting Bracket and Pipe Elbow)				
	505-0043	1	Elbow, Pipe (1-1/2)				

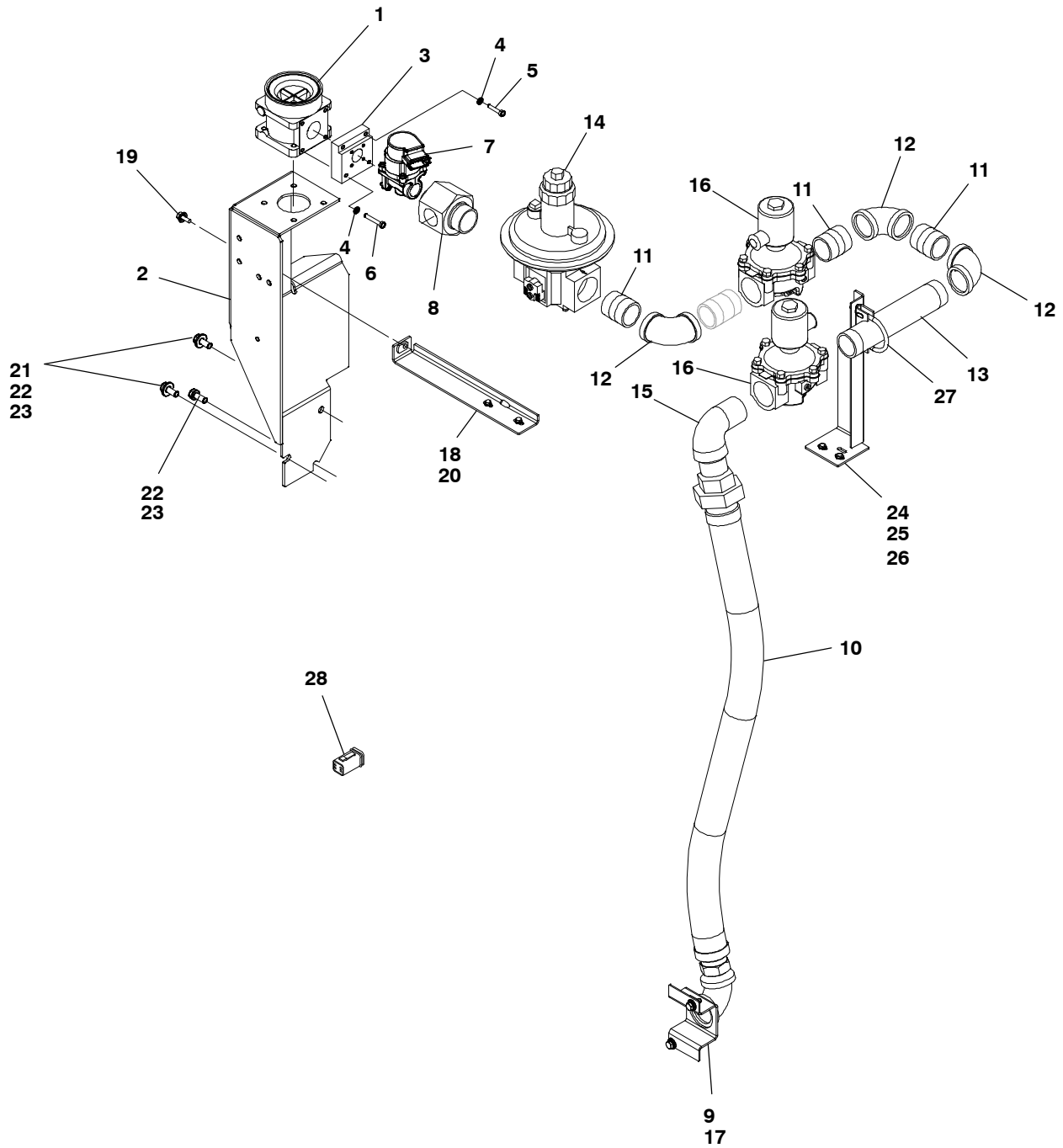
Fuel System Natural Gas Spec C-D



**Fuel System
Natural Gas
Spec C-D**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0851	1	Mixer	21	821-6007-02	2	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)
2	520-2041	4	Stud (M6 x 1 x 140)	22	505-0043	4	Elbow, Pipe
3	147-0895	1	Manifold, Fuel	23	403-6233-02	1	Stiffener, Mount – Fuel System
4	850-0114-53	4	Washer, Lock – Split (M6)	24	821-6003-01	1	Screw, Hex Head (M8 x 1.25 x 16)
5	862-0026-54	4	Nut, Hex (M6)	25	505-2330	1	Nipple, Pipe (1-1/2 x 9)
6	147-0896	2	Screw, Bleed	26	853-0013	1	Washer, Lock – W/ET (1/4)
7	860-2073	2	Nut, Hex – Jam (M24 x 1.25)	27	800-0003	1	Screw, Cap – Hex Head (1/4–20 x .50)
8	148-1309-02	1	Bracket, Fuel System	28	504-0253	1	Valve, Solenoid
9	403-6155-02	1	Stiffener, Mount – Fuel System	29	338-4725-01	1	Harness, Plug – Fuel Select
10	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)	30	850-2010	3	Washer, Lock – Split (M10)
11	821-6003-01	2	Screw, Hex Head (M8 x 1.25 x 16)	31	718-1054	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
12	870-2065-03	2	Nut, Hex – Flange	32	821-5002-04	2	Screw, Cap – Hex Head (1/4–20 x .63)
13	725-1053	4	Screw, Cap – Socket Head (M8 x 1.25 x 35)	33	VM7980-1	1	Gasket – Woodward Part Number
14	501-0776-05	1	Line, Fuel – Flexible	34	VM7980-3	2	Gasket – Woodward Part Number
15	505-0107	1	Nipple, Pipe (1 x 2.00)	35	526-0249-01	2	Washer, Flat
16	148-1323-02	1	Bracket, Fuel System				
17	148-1300	1	Regulator, Fuel				
18	505-2329	4	Nipple, Pipe (1-1/2 x 2)				
19	512-0288-02	1	Coupling – Assembly				
20	155-2548	1	Clamp, Muffler				

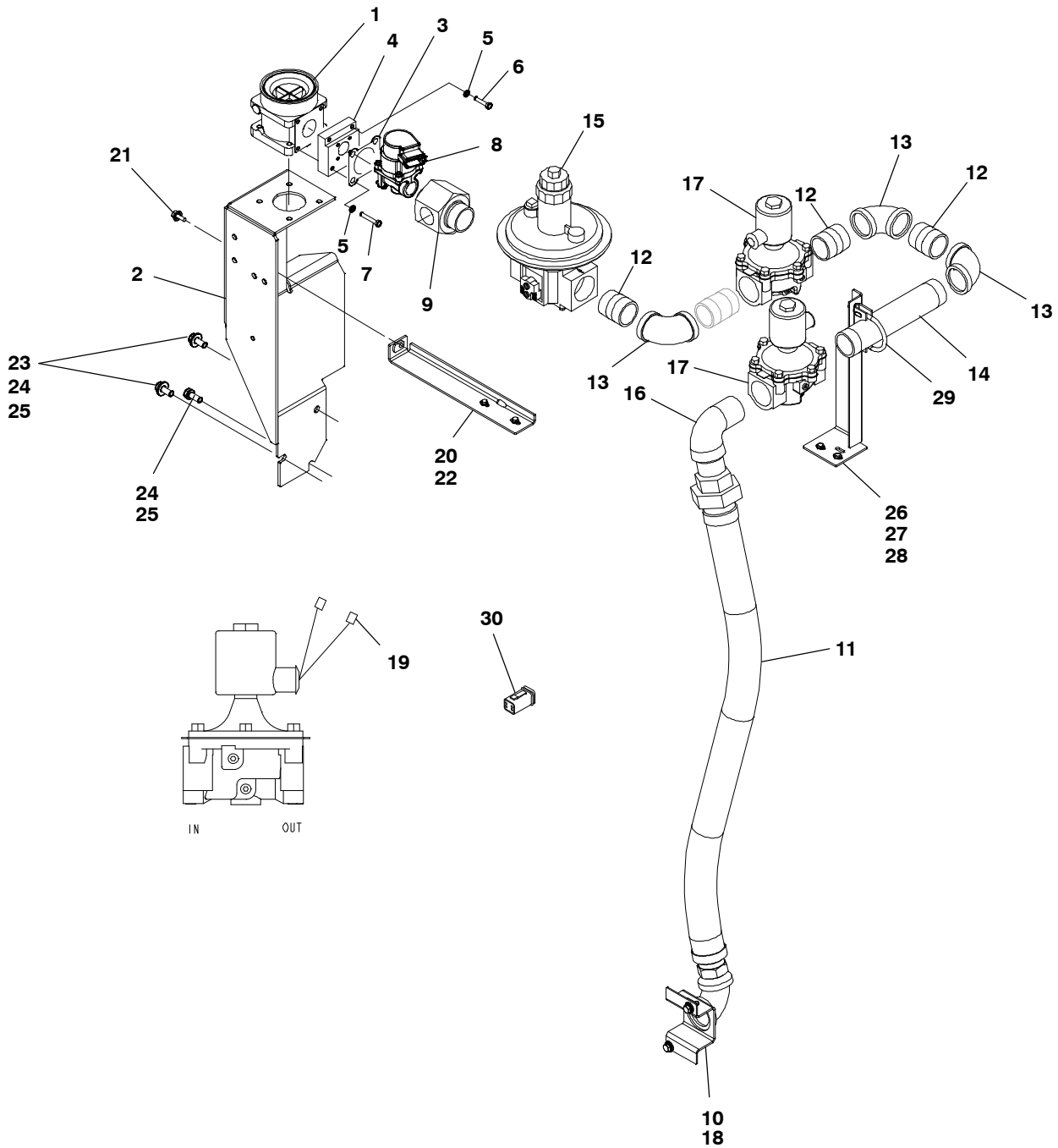
Fuel System Natural Gas Spec E



**Fuel System
Natural Gas
Spec E**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0851	1	Mixer	17	821-6007-02	2	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)
2	148-1309-02	1	Bracket, Fuel System	18	403-6233-02	1	Stiffener, Mount – Fuel System
3	148-1354	1	Adapter, Mixer	19	821-6003-01	1	Screw, Hex Head (M8 x 1.25 x 16)
4	850-0114-53	4	Washer, Lock – Split (M6)	20	821-5002-04	2	Screw, Cap – Hex Head (1/4-20 x .63)
5	800-2036	2	Screw, Cap – Hex Head (M6 x 1 x 30)	21	526-0249-01	2	Washer, Flat (7/16)
6	800-2038	2	Screw, Cap – Hex Head (M6 x 1 x 40)	22	850-2010	3	Washer, Lock – Split (M10)
7	300-6409-02	1	Control, Fuel	23	718-1054	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
8	A028X585	1	Adapter, Pipe	24	148-1361-02	1	Bracket, Fuel System
9	512-0288-02	1	Coupling – Assembly	25	853-0013	2	Washer, Lock – W/ET (1/4)
10	501-0776-05	1	Line, Fuel – Flexible	26	800-0003	2	Screw, Cap – Hex Head (1/4-20 x .50)
11	505-2329	3	Nipple, Pipe (1-1/2 x 2)	27	155-2548	1	Clamp, Muffler
12	505-0043	3	Elbow, Pipe	28	338-4725-01	1	Harness, Plug – Fuel Select
13	505-2330	1	Nipple, Pipe (1-1/2 x 9)				
14	148-1356	1	Regulator, Fuel (Vapor NG/LP)				
15	505-0462	1	Elbow, Street – 90° (1-1/2)				
16	504-0253	2	Valve, Solenoid				

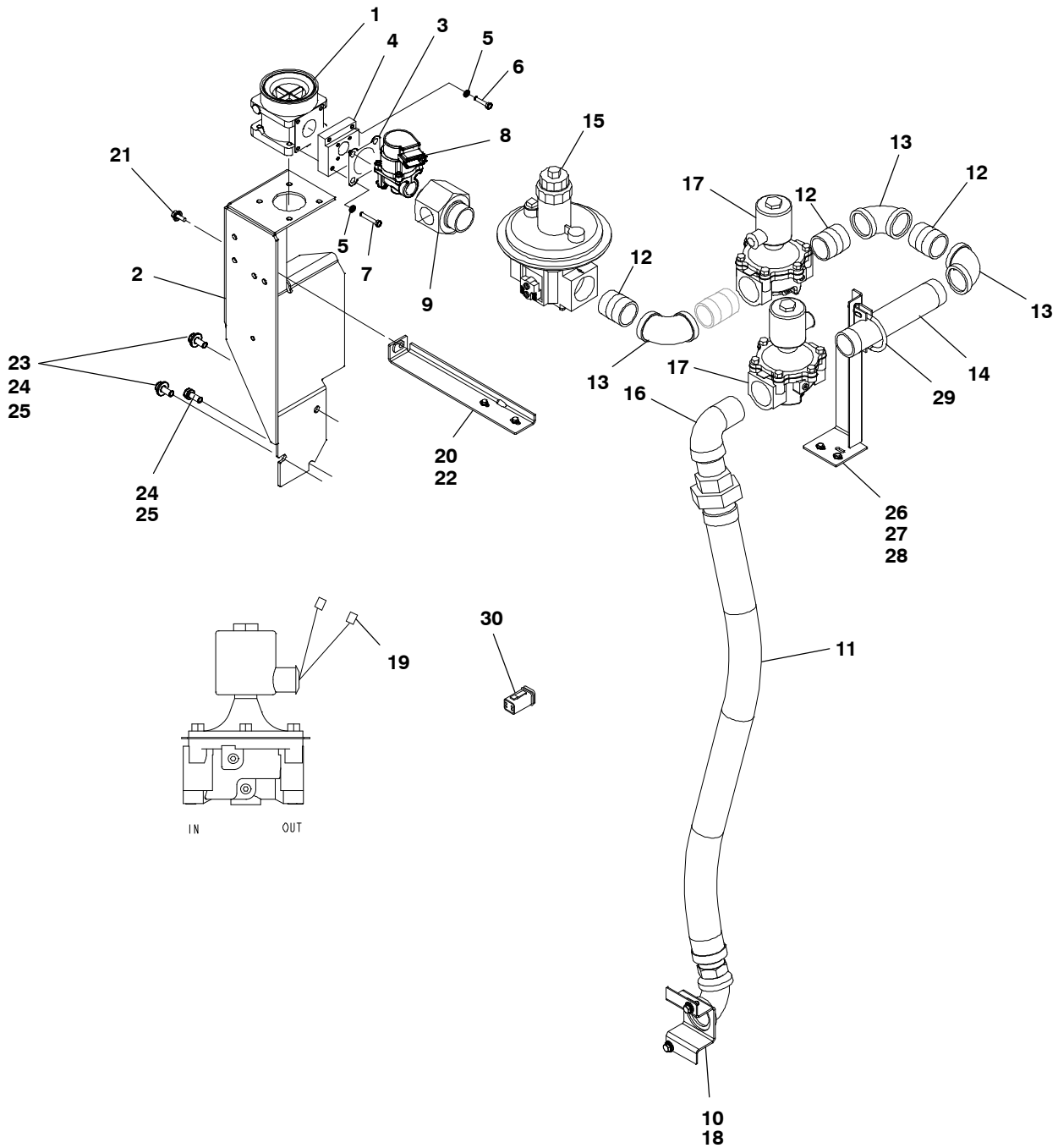
**Fuel System
Natural Gas
GGLA
Begin Spec F**



**Fuel System
Natural Gas
GGLA
Begin Spec F**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0851	1	Mixer	18	821-6007-02	2	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)
2	148-1309-02	1	Bracket, Fuel System	19	332-2430	4	Terminal, Receptacle
3	148-1241	1	Gasket	20	403-6233-02	1	Stiffener, Mount – Fuel System
4	148-1354	1	Adapter, Mixer	21	821-6003-01	1	Screw, Hex Head (M8 x 1.25 x 16)
5	850-0114-53	4	Washer, Lock – Split (M6)	22	821-5002-04	2	Screw, Cap – Hex Head (1/4-20 x .63)
6	800-2036	2	Screw, Cap – Hex Head (M6 x 1 x 30)	23	526-0249-01	2	Washer, Flat (7/16)
7	800-2038	2	Screw, Cap – Hex Head (M6 x 1 x 40)	24	850-2010	3	Washer, Lock – Split (M10)
8	A026H951	1	Control, Fuel	25	718-1054	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
9	A028X585	1	Adapter, Pipe	26	148-1361-02	1	Bracket, Fuel System
10	512-0288-02	1	Coupling – Assembly	27	853-0013	2	Washer, Lock – W/ET (1/4)
11	501-0776-05	1	Line, Fuel – Flexible	28	800-0003	2	Screw, Cap – Hex Head (1/4-20 x .50)
12	505-2329	3	Nipple, Pipe (1-1/2 x 2)	29	155-2548	1	Clamp, Muffler
13	505-0043	3	Elbow, Pipe	30	338-4725-01	1	Harness, Plug – Fuel Select
14	505-2330	1	Nipple, Pipe (1-1/2 x 9)				
15	A026H163	1	Regulator, Fuel				
16	505-0462	1	Elbow, Street – 90° (1-1/2)				
17	504-0253	2	Valve, Solenoid				

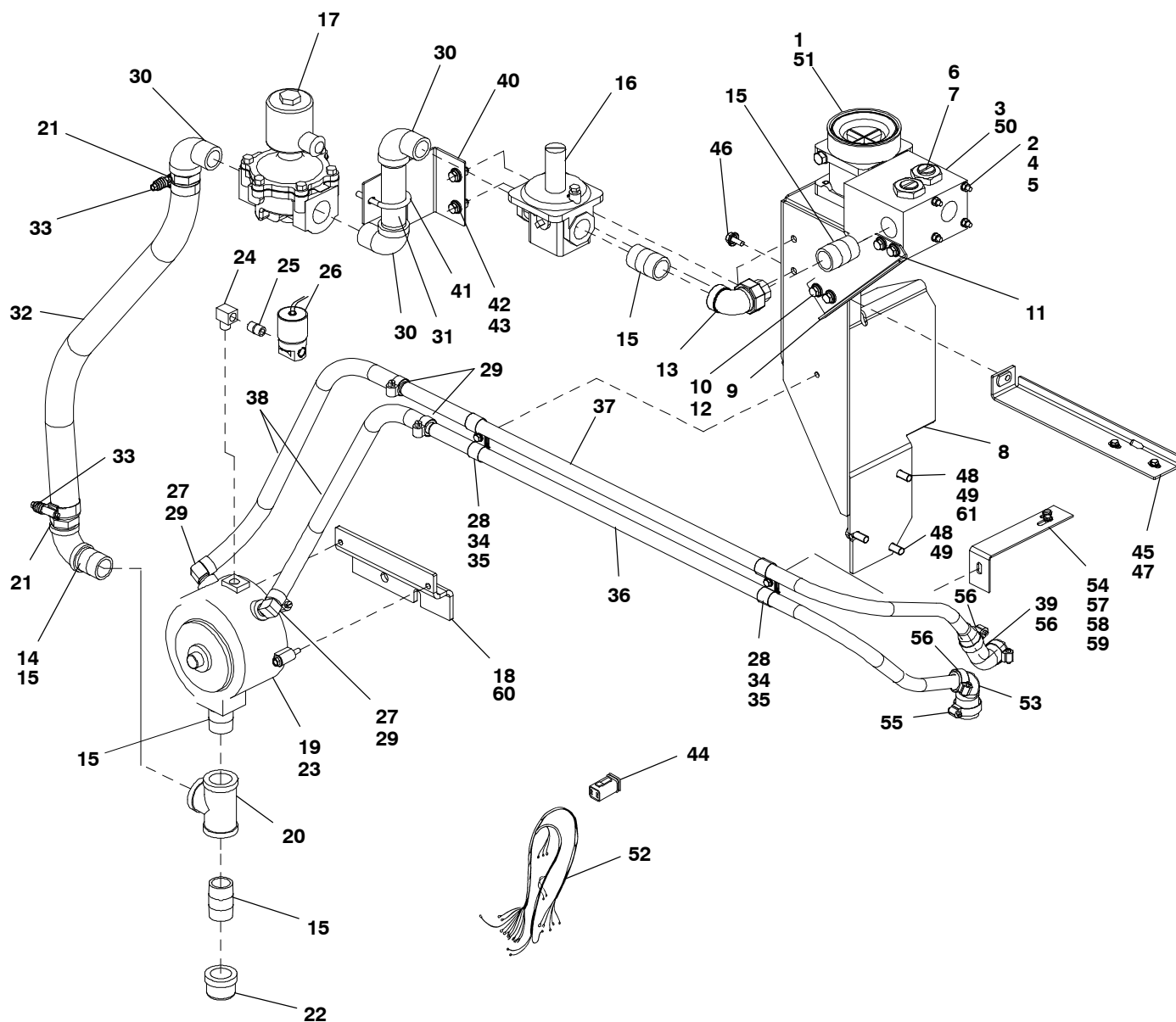
**Fuel System
Natural Gas
GGLB
Begin Spec F**



**Fuel System
Natural Gas
GGLB
Begin Spec F**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0851	1	Mixer	18	821-6007-02	2	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)
2	148-1309-02	1	Bracket, Fuel System	19	332-2430	4	Terminal, Receptacle
3	148-1241	1	Gasket	20	403-6233-02	1	Stiffener, Mount – Fuel System
4	148-1354	1	Adapter, Mixer	21	821-6003-01	1	Screw, Hex Head (M8 x 1.25 x 16)
5	850-0114-53	4	Washer, Lock – Split (M6)	22	821-5002-04	2	Screw, Cap – Hex Head (1/4-20 x .63)
6	800-2036	2	Screw, Cap – Hex Head (M6 x 1 x 30)	23	526-0249-01	2	Washer, Flat (7/16)
7	800-2038	2	Screw, Cap – Hex Head (M6 x 1 x 40)	24	850-2010	3	Washer, Lock – Split (M10)
8	A026H952	1	Control, Fuel	25	718-1054	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
9	A028X585	1	Adapter, Pipe	26	148-1361-02	1	Bracket, Fuel System
10	512-0288-02	1	Coupling – Assembly	27	853-0013	2	Washer, Lock – W/ET (1/4)
11	501-0776-05	1	Line, Fuel – Flexible	28	800-0003	2	Screw, Cap – Hex Head (1/4-20 x .50)
12	505-2329	3	Nipple, Pipe (1-1/2 x 2)	29	155-2548	1	Clamp, Muffler
13	505-0043	3	Elbow, Pipe	30	338-4725-01	1	Harness, Plug – Fuel Select
14	505-2330	1	Nipple, Pipe (1-1/2 x 9)				
15	A026H167	1	Regulator, Fuel				
16	505-0462	1	Elbow, Street – 90° (1-1/2)				
17	504-0253	2	Valve, Solenoid				

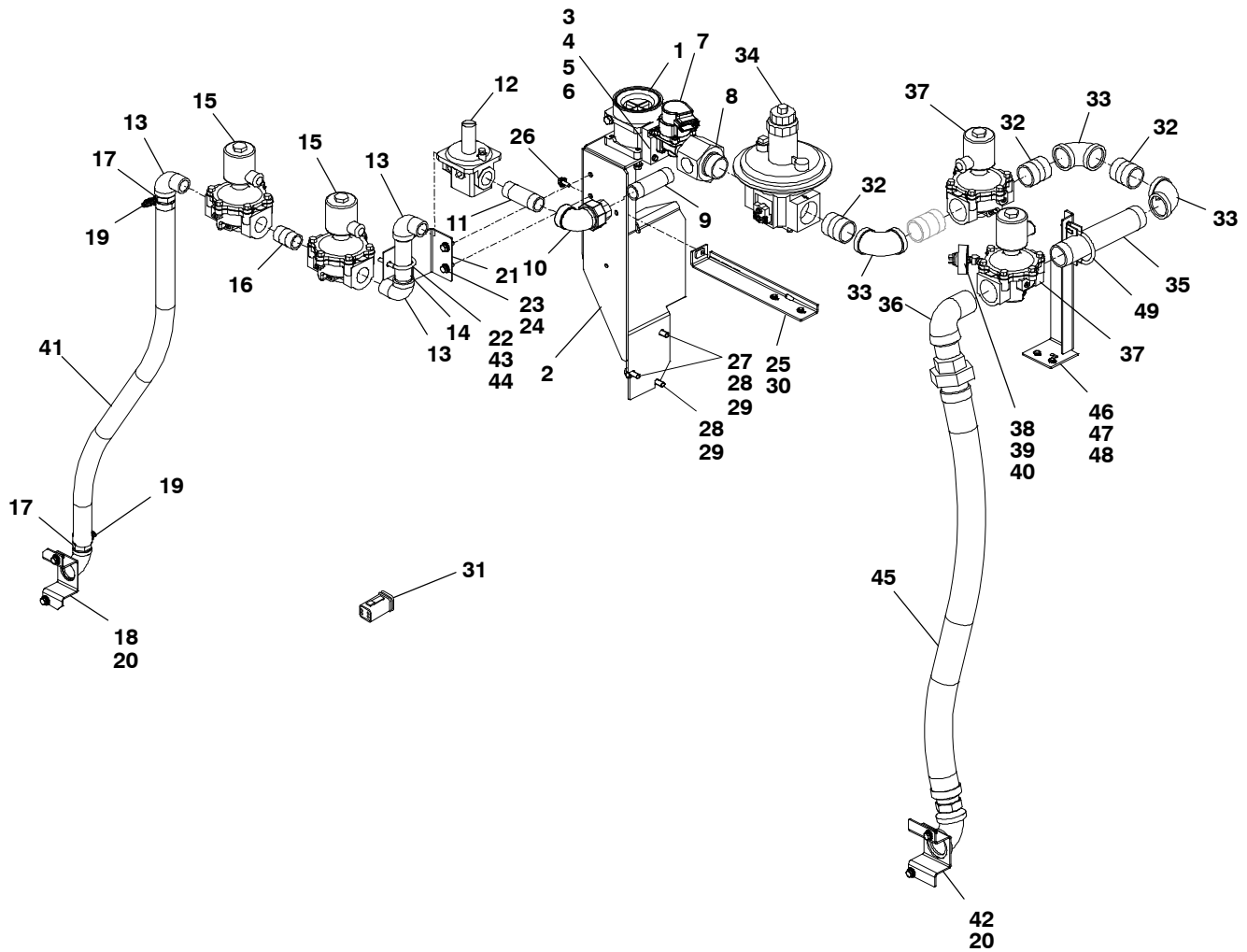
Fuel System Propane Liquid Spec C-D



**Fuel System
Propane Liquid
Spec C-D**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0851	1	Mixer	35	870-2055	2	Nut, Hex – Flange (M8 x 1.25)
2	520-2041	4	Stud (M6 x 1 x 140)	36	130-7108-02	1	Tube, Water
3	147-0895	1	Manifold, Fuel	37	130-7107-02	1	Tube, Water
4	850-0114-53	4	Washer, Lock – Split (M6)	38	503-2293-02	2	Hose, Coolant
5	862-0026-54	4	Nut, Hex (M6)	39	503-2818	1	Hose, Cooling System
6	147-0896	2	Screw, Bleed	40	403-6464-02	1	Stiffener, Mount – Fuel System
7	860-2073	2	Nut, Hex – Jam (M24 x 1.25)	41	155-1015	1	Clamp, Muffler
8	148-1309-02	1	Bracket, Fuel System	42	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)
9	403-6155-02	1	Stiffener, Mount – Fuel System	43	870-2065-03	2	Nut, Hex – Flange (M8 x 1.25)
10	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)	44	338-4725-02	1	Harness, Plug – Fuel Select
11	821-6003-01	2	Screw, Hex Head (M8 x 1.25 x 16)	45	403-6233-02	1	Stiffener, Mount – Fuel System
12	870-2065-03	2	Nut, Hex – Flange	46	821-6003-01	1	Screw, Hex Head (M8 x 1.25 x 16)
13	505-2349	1	Elbow, Pipe (90° x 1)	47	821-5002-04	2	Screw, Hex Head (1/4-20 x .63)
14	505-0041	1	Elbow, Pipe	48	850-2010	3	Washer, Lock – Split (M10)
15	505-0107	5	Nipple, Pipe (1 x 2.00)	49	718-1054	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
16	148-1202	1	Regulator, Fuel	50	VM7980-31	1	Gasket – Woodward Part Number
17	307-2890	1	Valve, Solenoid	51	VM7980-3	2	Gasket – Woodward Part Number
18	148-1308-02	1	Bracket, Converter	52	338-4719-01	1	Harness, Extension
19	148-1240	1	Converter – LP	53	503-2160	1	Hose, Coolant
20	505-0304	1	Tee, Pipe	54	148-1333-02	1	Bracket, Fuel System
21	502-1110-01	2	Connector, Hose	55	503-1137	1	Clamp, Hose
22	505-0479	1	Cap, Pipe (1")	56	503-1136	3	Clamp, Hose
23	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)	57	850-2008	2	Washer, Lock – Spring
24	502-0054	1	Elbow, Street	58	800-0003	2	Screw, Cap – Hex Head (1/4-20 x 1/2)
25	505-0099	1	Nipple, Pipe (1/4 x .88)	59	526-2100	2	Washer, Flat (M8 x 8.4)
26	307-0268	1	Valve, Solenoid	60	800-2115	2	Screw, Cap – Hex Head (M12 x 1.75 x 45)
27	502-0942	2	Elbow, Hose – 90°	61	526-0249-01	2	Washer, Flat
28	518-0548-19	4	Clamp, Hose				
29	503-0183	4	Clamp, Hose				
30	505-0003	3	Elbow, Street – 90°				
31	505-0089	1	Nipple, Pipe (1 x 5.00)				
32	503-2353-06	1	Hose, Fuel – LP				
33	503-2157-02	2	Clamp, Hose				
34	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)				

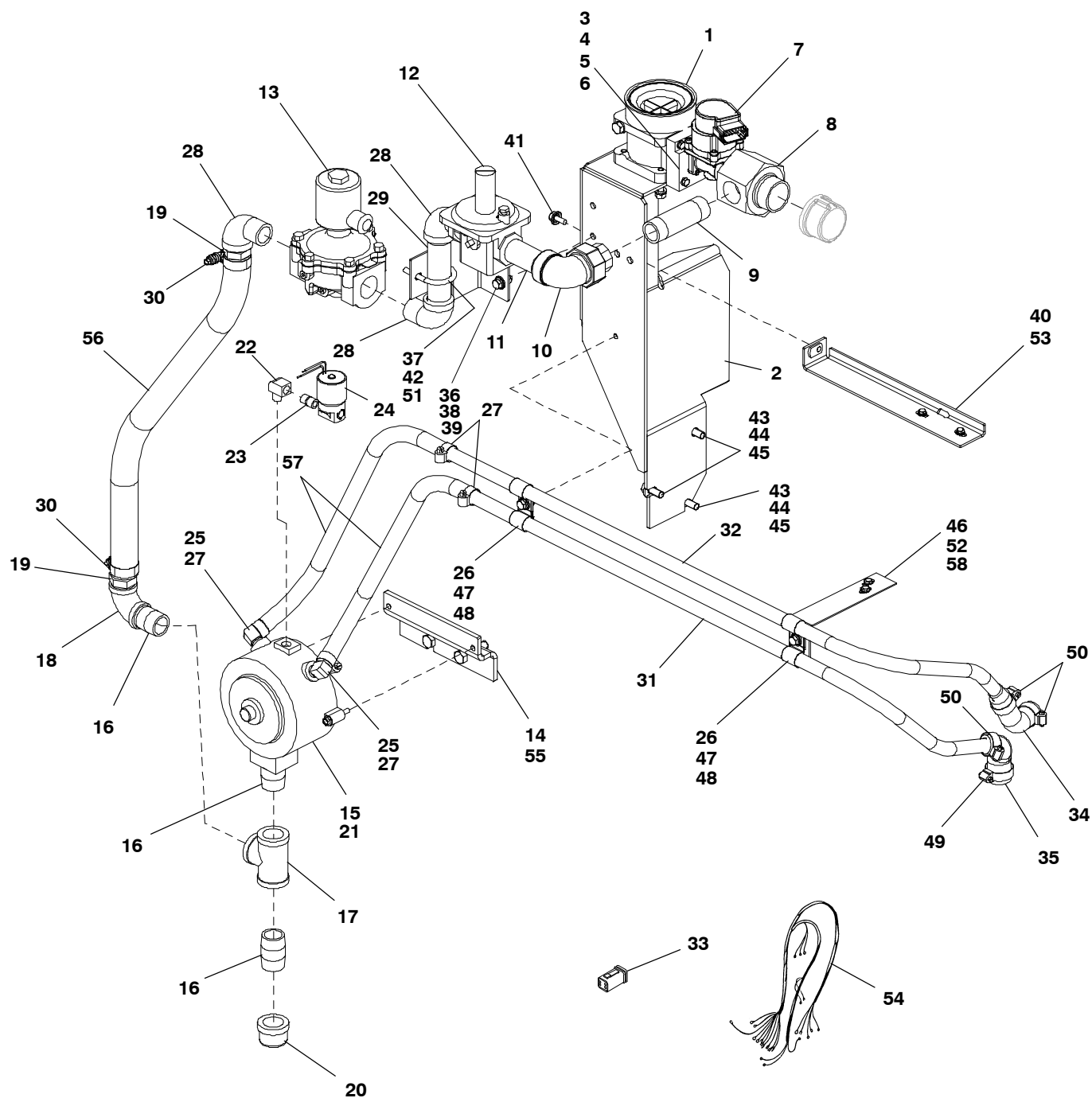
Fuel System **Natural Gas/Propane Vapor – Dual Fuel** **Spec E**



Fuel System
Natural Gas/Propane Vapor – Dual Fuel
Spec E

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0851	1	Mixer	26	821-6003-01	1	Screw, Hex Head (M8 x 1.25 x 16)
2	148-1309-02	1	Bracket, Fuel System	27	526-0249-01	2	Washer, Flat (7/16)
3	148-1354	1	Adapter, Mixer	28	850-2010	3	Washer, Lock – Split (M10)
4	850-0114-53	4	Washer, Lock – Split (M6)	29	718-1054	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
5	800-2036	2	Screw, Cap – Hex Head (M6 x 1 x 30)	30	821-5002-04	2	Screw, Cap – Hex Head (1/4-20 x .63)
6	800-2038	2	Screw, Cap – Hex Head (M6 x 1 x 40)	31	338-4725-03	1	Harness, Plug – Fuel Select
7	300-6409-02	1	Control, Fuel	32	505-2329	3	Nipple, Pipe (1-1/2 x 2)
8	A028X585	1	Adapter, Pipe	33	505-0043	3	Elbow, Pipe
9	505-0331	1	Nipple, Pipe (1 x 4.00)	34	148-1356	1	Regulator, Fuel (Vapor NG/LP)
10	505-2349	1	Elbow, Pipe	35	505-2330	1	Nipple, Pipe (1-1/2 x 9)
11	505-0147	1	Nipple, Pipe (1 x 3.50)	36	505-0462	1	Elbow, Street – 90° (1-1/2)
12	148-1202	1	Regulator, Fuel	37	504-0253	2	Valve, Solenoid
13	505-0003	3	Elbow, Street – 90°	38	502-0175	1	Adapter, Pipe (1/8)
14	505-0089	1	Nipple, Pipe (1 x 5.00)	39	502-0053	1	Elbow, Street – 45°
15	307-2890	2	Valve, Solenoid	40	309-0669-01	1	Switch, Low Pressure
16	505-0107	1	Nipple, Pipe (1 x 2.00)	41	503-2353-07	1	Hose, Fuel (LP)
17	502-1110-01	2	Connector, Hose	42	512-0288-02	1	Coupling – Assembly
18	512-0310-02	1	Coupling – Assembly	43	850-2008	2	Washer, Lock
19	503-2157-02	2	Clamp, Hose	44	526-2100	2	Washer, Flat (M8)
20	821-6007-02	4	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)	45	501-0776-05	1	Line, Fuel – Flexible
21	403-6464-02	1	Stiffener, Mount – Fuel System	46	148-1361-02	1	Bracket, Fuel System
22	155-1015	1	Clamp, Muffler	47	853-0013	2	Washer, Lock – W/ET (1/4)
23	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)	48	800-0003	2	Screw, Cap – Hex Head (1/4-20 x .50)
24	870-2065-03	2	Nut, Hex – Flange (M8 x 1.25)	49	155-2548	1	Clamp, Muffler
25	403-6233-02	1	Stiffener, Mount – Fuel System				

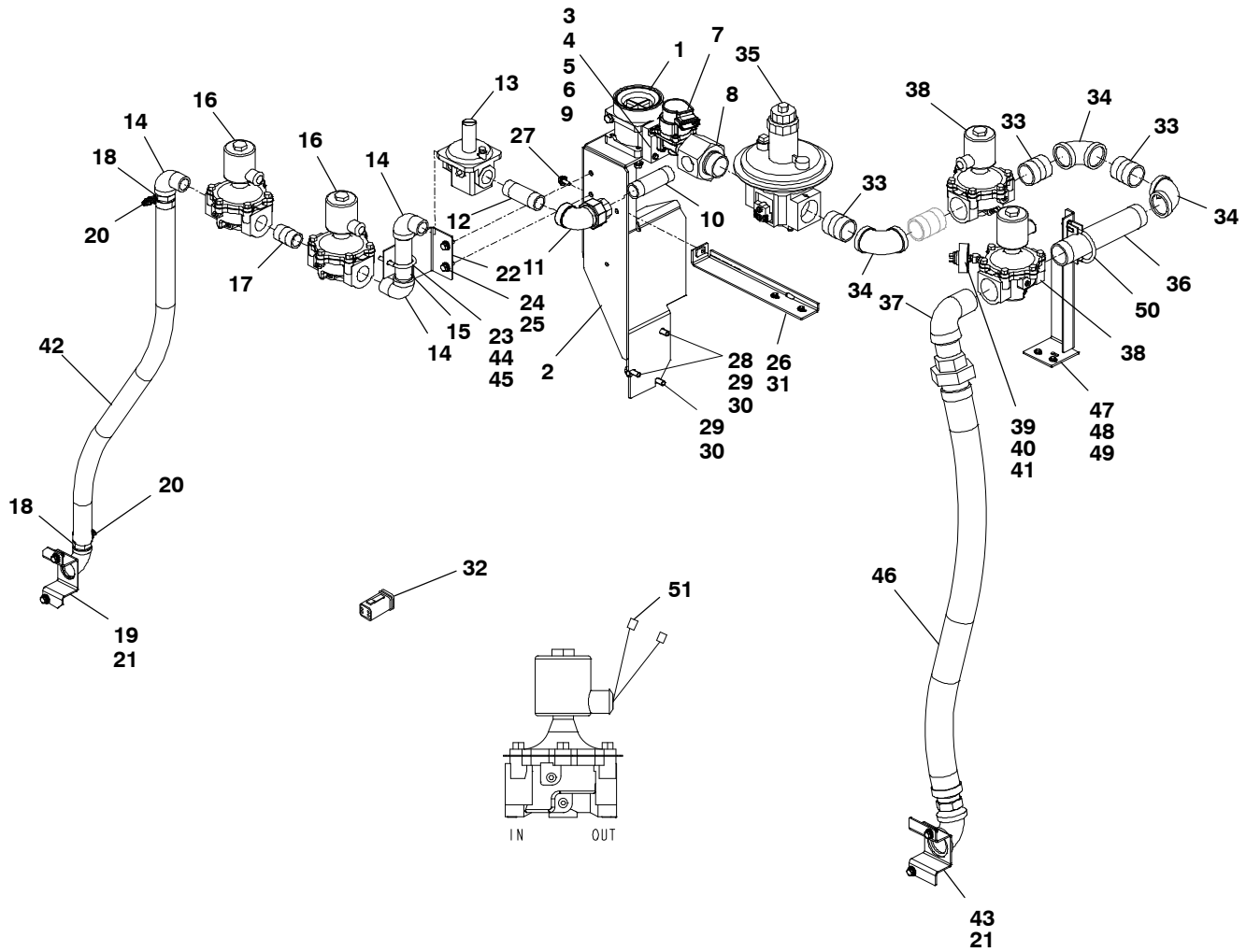
Fuel System Propane Liquid Spec E



**Fuel System
Propane Liquid
Spec E**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0851	1	Mixer	32	130-7107-02	1	Tube, Water
2	148-1309-02	1	Bracket, Fuel System	33	338-4725-02	1	Harness, Plug – Fuel Select
3	148-1354	1	Adapter, Mixer	34	503-2818	1	Hose, Cooling System
4	850-0114-53	4	Washer, Lock – Split (M6)	35	503-2160	1	Hose, Coolant
5	800-2036	2	Screw, Cap – Hex Head (M6 x 1 x 30)	36	403-6464-02	1	Stiffener, Mount – Fuel System
6	800-2038	2	Screw, Cap – Hex Head (M6 x 1 x 40)	37	155-1015	1	Clamp, Muffler
7	300-6409-02	1	Control, Fuel	38	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)
8	A028X585	1	Adapter, Pipe	39	870-2065-03	2	Nut, Hex – Flange (M8 x 1.25)
9	505-0031	1	Elbow, Pipe (1 x 4.00)	40	403-6233-02	1	Stiffener, Mount – Fuel System
10	505-2349	1	Elbow, Pipe (90° x 1)	41	821-6003-01	1	Screw, Hex Head (M8 x 1.25 x 16)
11	505-0147	1	Nipple, Pipe (1 x 3.50)	42	526-2100	2	Washer, Flat (M8 x 8.4)
12	148-1202	1	Regulator, Fuel	43	526-0249-01	2	Washer, Flat (7/16)
13	307-2890	1	Valve, Solenoid	44	850-2010	3	Washer, Lock – Split (M10)
14	148-1308-02	1	Bracket, Converter	45	718-1054	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
15	148-1240	1	Converter – LP	46	148-1333-02	1	Bracket, Fuel System
16	505-0107	3	Nipple, Pipe (1 x 2.00)	47	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)
17	505-0304	1	Tee, Pipe	48	870-2055	2	Nut, Hex – Flange (M8 x 1.25)
18	505-0041	1	Elbow, Pipe	49	503-1137	1	Clamp, Hose
19	502-1110-01	2	Connector, Hose	50	503-1136	3	Clamp, Hose
20	505-0479	1	Cap, Pipe (1")	51	850-2008	2	Washer, Lock – Spring
21	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)	52	800-0003	2	Screw, Cap – Hex Head (1/4-20 x 1/2)
22	502-0054	1	Elbow, Street	53	821-5002-04	2	Screw, Hex Head (1/4-20 x .63)
23	505-0099	1	Nipple, Pipe (1/4 x .88)	54	338-4719-01	1	Harness, Extension
24	307-0268	1	Valve, Solenoid	55	800-2115	2	Screw, Cap – Hex Head (M12 x 1.75 x 45)
25	502-0942	2	Elbow, Hose – 90°	56	503-2353-06	1	Hose, Fuel – LP
26	518-0548-19	4	Clamp, Hose	57	503-2293-02	2	Hose, Coolant
27	503-0183	4	Clamp, Hose	58	853-0013	2	Washer, Lock – W/ET (1/4)
28	505-0003	3	Elbow, Street – 90°				
29	505-0089	1	Nipple, Pipe (1 x 5.00)				
30	503-2157-02	2	Clamp, Hose				
31	130-7108-02	1	Tube, Water				

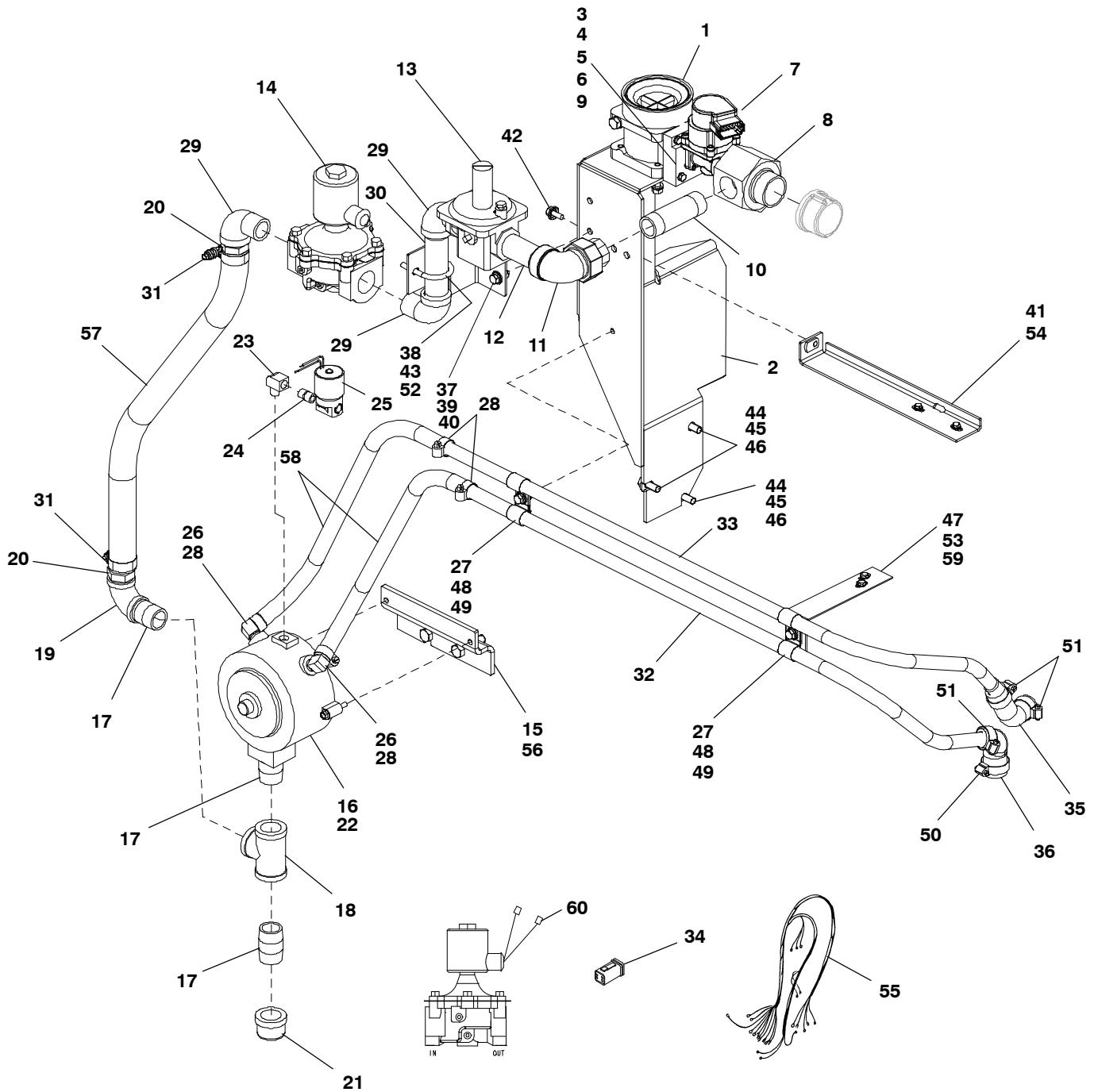
Fuel System
Natural Gas/Propane Vapor – Dual Fuel
GGLB
Begin Spec F



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

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0851	1	Mixer	27	821-6003-01	1	Screw, Hex Head (M8 x 1.25 x 16)
2	148-1309-02	1	Bracket, Fuel System	28	526-0249-01	2	Washer, Flat (7/16)
3	148-1354	1	Adapter, Mixer	29	850-2010	3	Washer, Lock – Split (M10)
4	850-0114-53	4	Washer, Lock – Split (M6)	30	718-1054	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
5	800-2036	2	Screw, Cap – Hex Head (M6 x 1 x 30)	31	821-5002-04	2	Screw, Cap – Hex Head (1/4-20 x .63)
6	800-2038	2	Screw, Cap – Hex Head (M6 x 1 x 40)	32	338-4725-03	1	Harness, Plug – Fuel Select
7	A026H952	1	Control, Fuel	33	505-2329	3	Nipple, Pipe (1-1/2 x 2)
8	A028X585	1	Adapter, Pipe	34	505-0043	3	Elbow, Pipe
9	148-1241	1	Gasket	35	A026H167	1	Regulator, Fuel (Vapor NG/LP)
10	505-0331	1	Nipple, Pipe (1 x 4.00)	36	505-2330	1	Nipple, Pipe (1-1/2 x 9)
11	505-2349	1	Elbow, Pipe	37	502-0053	1	Elbow, Street – 45°
12	505-0147	1	Nipple, Pipe (1 x 3.50)	38	504-0253	2	Valve, Solenoid
13	A026H173	1	Regulator, Fuel	39	502-0175	1	Adapter, Pipe (1/8)
14	505-0003	3	Elbow, Street – 90°	40	505-0462	1	Elbow
15	505-0089	1	Nipple, Pipe (1 x 5.00)	41	309-0669-01	1	Switch, Low Pressure
16	307-2890	2	Valve, Solenoid	42	503-2353-07	1	Hose, Fuel (LP)
17	505-0107	1	Nipple, Pipe (1 x 2.00)	43	512-0288-02	1	Coupling – Assembly
18	502-1110-01	2	Connector, Hose	44	850-2008	2	Washer, Lock
19	512-0310-02	1	Coupling – Assembly	45	526-2100	2	Washer, Flat (M8)
20	503-2157-02	2	Clamp, Hose	46	501-0776-05	1	Line, Fuel – Flexible
21	821-6007-02	4	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)	47	148-1361-02	1	Bracket, Fuel System
22	403-6464-02	1	Stiffener, Mount – Fuel System	48	853-0013	2	Washer, Lock – W/ET (1/4)
23	155-1015	1	Clamp, Muffler	49	800-0003	2	Screw, Cap – Hex Head (1/4-20 x .50)
24	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)	50	155-2548	1	Clamp, Muffler
25	870-2065-03	2	Nut, Hex – Flange (M8 x 1.25)	51	332-2430	8	Terminal, Receptacle
26	403-6233-02	1	Stiffener, Mount – Fuel System				

Fuel System
Propane Liquid
GGLB
Spec F



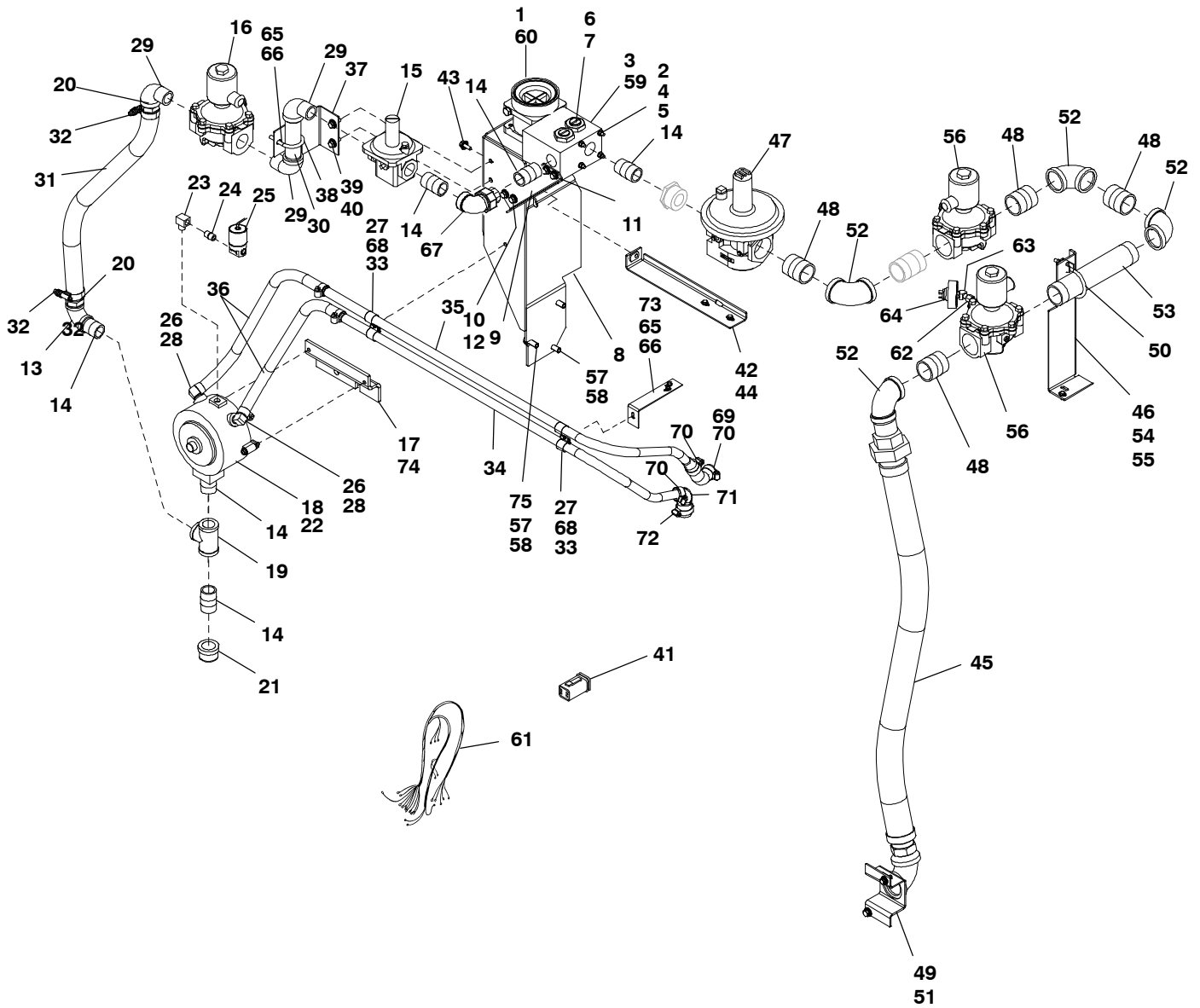
**Fuel System
Propane Liquid
GGLB
Begin Spec F**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0851	1	Mixer	33	130-7107-02	1	Tube, Water
2	148-1309-02	1	Bracket, Fuel System	34	338-4725-02	1	Harness, Plug – Fuel Select
3	148-1354	1	Adapter, Mixer	35	503-2818	1	Hose, Cooling System
4	850-0114-53	4	Washer, Lock – Split (M6)	36	503-2160	1	Hose, Coolant
5	800-2036	2	Screw, Cap – Hex Head (M6 x 1 x 30)	37	403-6464-02	1	Stiffener, Mount – Fuel System
6	800-2038	2	Screw, Cap – Hex Head (M6 x 1 x 40)	38	155-1015	1	Clamp, Muffler
7	A026H952	1	Control, Fuel	39	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)
8	A028X585	1	Adapter, Pipe	40	870-2065-03	2	Nut, Hex – Flange (M8 x 1.25)
9	148-1241	1	Gasket	41	403-6233-02	1	Stiffener, Mount – Fuel System
10	505-0031	1	Elbow, Pipe (1 x 4.00)	42	821-6003-01	1	Screw, Hex Head (M8 x 1.25 x 16)
11	505-2349	1	Elbow, Pipe (90° x 1)	43	526-2100	2	Washer, Flat (M8 x 8.4)
12	505-0147	1	Nipple, Pipe (1 x 3.50)	44	526-0249-01	2	Washer, Flat (7/16)
13	A026H173	1	Regulator, Fuel	45	850-2010	3	Washer, Lock – Split (M10)
14	307-2890	1	Valve, Solenoid	46	718-1054	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
15	148-1308-02	1	Bracket, Converter	47	148-1333-02	1	Bracket, Fuel System
16	148-1240	1	Converter – LP	48	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)
17	505-0107	3	Nipple, Pipe (1 x 2.00)	49	870-2055	2	Nut, Hex – Flange (M8 x 1.25)
18	505-0304	1	Tee, Pipe	50	503-1137	1	Clamp, Hose
19	505-0041	1	Elbow, Pipe	51	503-1136	3	Clamp, Hose
20	502-1110-01	2	Connector, Hose	52	850-2008	2	Washer, Lock – Spring
21	505-0479	1	Cap, Pipe (1")	53	800-0003	2	Screw, Cap – Hex Head (1/4-20 x 1/2)
22	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)	54	821-5002-04	2	Screw, Hex Head (1/4-20 x .63)
23	502-0054	1	Elbow, Street	55	338-4719-01	1	Harness, Extension
24	505-0099	1	Nipple, Pipe (1/4 x .88)	56	800-2115	2	Screw, Cap – Hex Head (M12 x 1.75 x 45)
25	307-0268	1	Valve, Solenoid	57	503-2353-06	1	Hose, Fuel – LP
26	502-0942	2	Elbow, Hose – 90°	58	503-2293-02	2	Hose, Coolant
27	518-0548-19	4	Clamp, Hose	59	853-0013	2	Washer, Lock – W/ET (1/4)
28	503-0183	4	Clamp, Hose	60	332-2430	4	Terminal, Receptacle
29	505-0003	3	Elbow, Street – 90°				
30	505-0089	1	Nipple, Pipe (1 x 5.00)				
31	503-2157-02	2	Clamp, Hose				
32	130-7108-02	1	Tube, Water				

Fuel System

Natural Gas/Liquid Propane – Dual Fuel

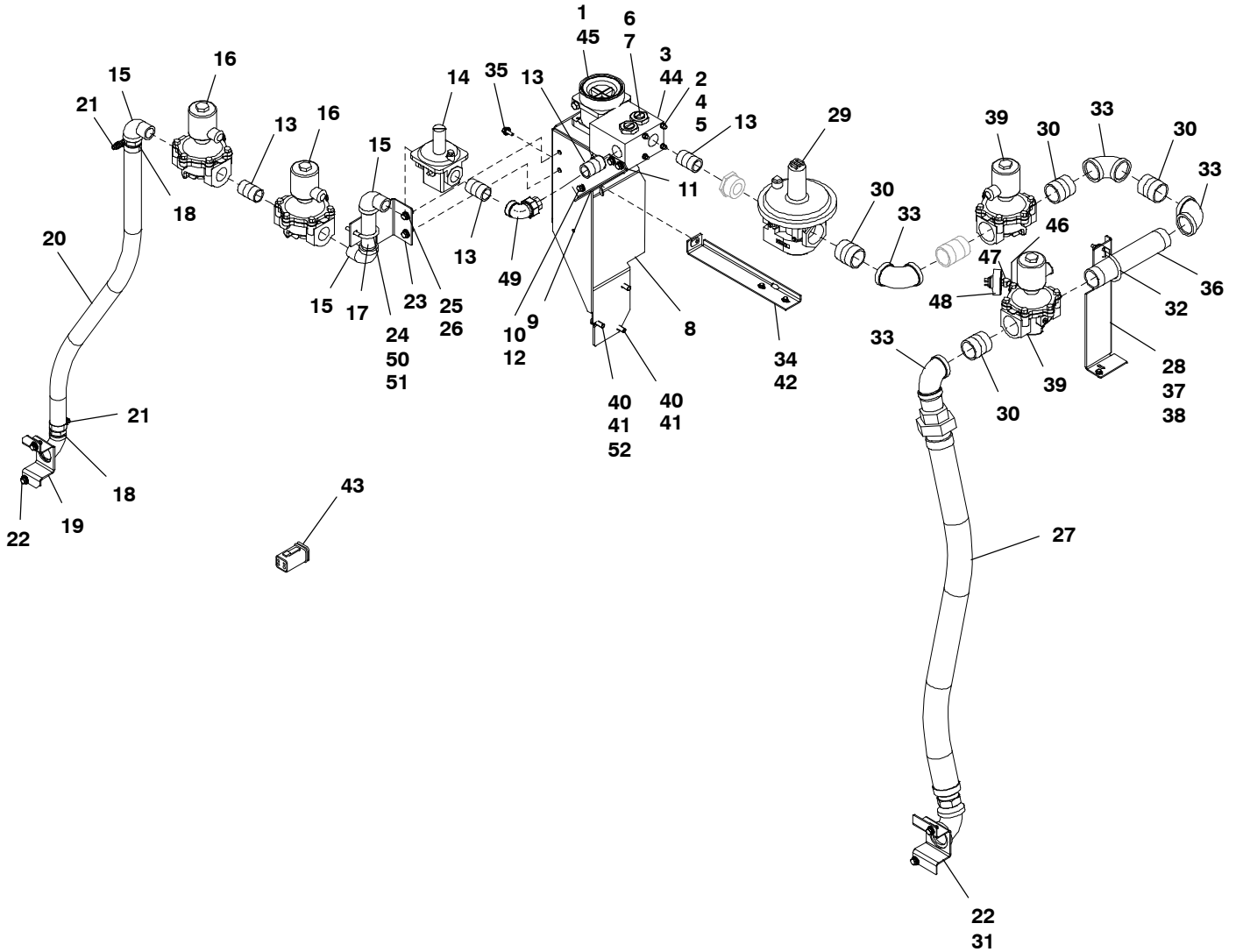
Spec C-D



Fuel System
Natural Gas/Liquid Propane – Dual Fuel
Spec C-D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0851	1	Mixer	41	338-4725-03	1	Harness, Plug – Fuel Select
2	520-2041	4	Stud (M6 x 1 x 140)	42	403-6233-02	1	Stiffener, Mount – Fuel System
3	147-0895	1	Manifold, Fuel	43	821-6003-01	1	Screw, Hex Head (M8 x 1.25 x 16)
4	850-0114-53	4	Washer, Lock – Split (M6)	44	821-5002-04	2	Screw, Hex Head (1/4-20 x .63)
5	862-0026-54	4	Nut, Hex (M6)	45	501-0776-05	1	Line, Fuel – Flexible
6	147-0896	2	Screw, Bleed	46	148-1323-02	1	Bracket, Fuel System
7	860-2073	2	Nut, Hex – Jam (M24 x 1.25)	47	148-1300	1	Regulator, Fuel
8	148-1309-02	1	Bracket, Fuel System	48	505-2329	4	Nipple, Pipe (1-1/2 x 2)
9	403-6155-02	1	Stiffener, Mount – Fuel System	49	512-0288-02	1	Coupling – Assembly
10	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)	50	155-2548	1	Clamp, Muffler
11	821-6003-01	2	Screw, Hex Head (M8 x 1.25 x 16)	51	821-6007-02	2	Screw, Hex Head (M8 x 1.25 x 20)
12	870-2065-03	2	Nut, Hex – Flange	52	505-0043	4	Elbow, Pipe
13	505-0041	2	Elbow, Pipe	53	505-2330	1	Nipple, Pipe (1-1/2 x 9)
14	505-0107	6	Nipple, Pipe (1 x 2.00)	54	853-0013	1	Washer, Lock – W/ET (1/4)
15	148-1202	1	Regulator, Fuel	55	800-0003	1	Screw, Cap – Hex Head (1/4-20 x .50)
16	307-2890	1	Valve, Solenoid	56	504-0253	2	Valve, Solenoid
17	148-1308-02	1	Bracket, Converter	57	850-2010	3	Washer, Lock – Split (M10)
18	148-1240	1	Converter (LP)	58	718-1054	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
19	505-0304	1	Tee, Pipe	59	VM7980-1	1	Gasket – Woodward Part Number
20	502-1110-01	2	Connector, Hose	60	VM7980-3	2	Gasket – Woodward Part Number
21	505-0479	1	Cap, Pipe	61	338-4719-01	1	Harness, Extension
22	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)	62	502-0175	1	Adapter, Pipe
23	502-0054	1	Elbow, Street – Pipe	63	502-0053	1	Elbow, Street – 45°
24	505-0099	1	Nipple, Pipe (1/4 x .88)	64	309-0669-01	1	Switch, Low Pressure
25	307-0268	1	Valve, Solenoid	65	850-2008	6	Washer, Lock – Spring (1/4)
26	502-0942	2	Elbow, 90° Hose (3/8 x 5/8)	66	526-2100	4	Washer, Flat (M8 x 8.4)
27	518-0548-19	4	Clamp, Hose	67	505-2349	1	Elbow, Pipe – 90°
28	503-0183	2	Clamp, Hose	68	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)
29	505-0003	3	Elbow, Street – 90°	69	503-2818	1	Hose, Cooling System
30	505-0089	1	Nipple, Pipe (1 x 5.00)	70	503-1136	3	Clamp, Hose
31	503-2353-06	1	Hose, Fuel (LP)	71	503-2160	1	Hose, Coolant
32	503-2157-02	2	Clamp, Hose	72	503-1137	1	Clamp, Hose
33	870-2065-02	2	Nut, Hex – Flange (M6 x 1)	73	148-1333-02	1	Bracket, Fuel System
34	130-7108-02	1	Tube, Water	74	800-2115	2	Screw, Cap – Hex Head (M12 x 1.75 x 45)
35	130-7107-02	1	Tube, Water	75	526-0249-01	2	Washer, Flat
36	503-2293-02	2	Hose, Coolant				
37	403-6464-02	1	Stiffener, Mount – Fuel System				
38	155-1015	1	Clamp, Muffler				
39	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)				
40	870-2065-03	2	Nut, Hex – Flange (M8 x 1.25)				

Fuel System **Natural Gas/Propane Vapor – Dual Fuel** **Spec C-D**



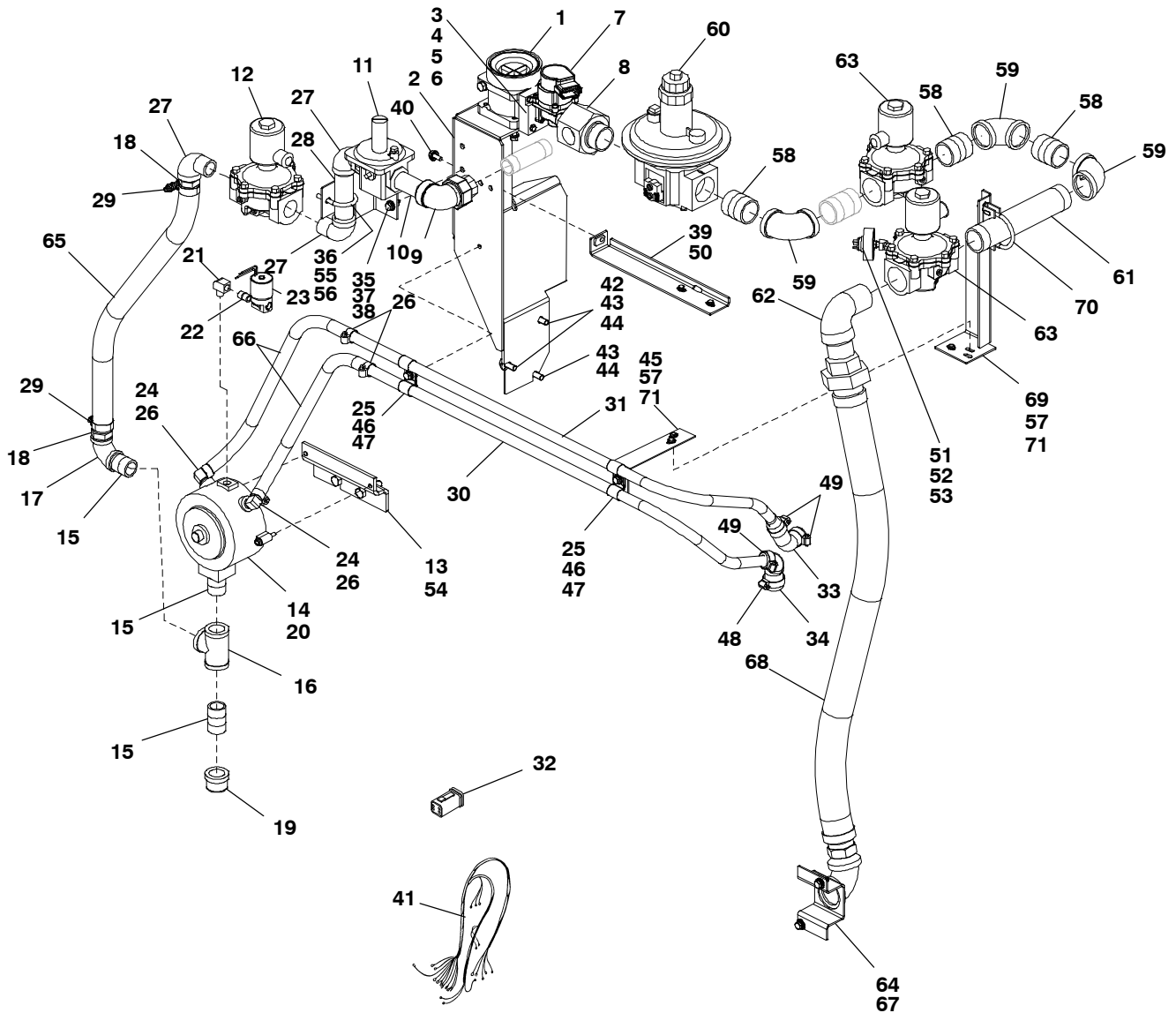
Fuel System
Natural Gas/Propane Vapor – Dual Fuel
Spec C–D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0851	1	Mixer	28	148-1323-02	1	Bracket, Fuel System
2	520-2041	4	Stud (M6 x 1 x 140)	29	148-1300	1	Regulator, Fuel
3	147-0895	1	Manifold, Fuel	30	505-2329	4	Nipple, Pipe (1-1/2 x 2)
4	850-0114-53	4	Washer, Lock – Split (M6)	31	512-0288-02	1	Coupling – Assembly
5	862-0026-54	4	Nut, Hex (M6)	32	155-2548	1	Clamp, Muffler
6	147-0896	2	Screw, Bleed	33	505-0043	4	Elbow, Pipe
7	860-2073	2	Nut, Hex – Jam (M24 x 1.25)	34	403-6233-02	1	Stiffener, Mount – Fuel System
8	148-1309-02	1	Bracket, Fuel System	35	821-6003-01	1	Screw, Hex Head (M8 x 1.25 x 16)
9	403-6155-02	1	Stiffener, Mount – Fuel System	36	505-2330	1	Nipple, Pipe (1-1/2 x 9)
10	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)	37	853-0013	1	Washer, Lock – W/ET (1/4)
11	821-6003-01	2	Screw, Hex Head (M8 x 1.25 x 16)	38	800-0003	1	Screw, Cap – Hex Head (1/4-20 x .50)
12	870-2065-03	2	Nut, Hex – Flange	39	504-0253	2	Valve, Solenoid
13	505-0107	4	Nipple, Pipe (1 x 2.00)	40	850-2010	3	Washer, Lock – Split (M10)
14	148-1202	1	Regulator, Fuel	41	718-1054	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
15	505-0003	3	Elbow, Street – 90°	42	821-5002-04	2	Screw, Cap – Hex Head (1/4-20 x .63)
16	307-2890	2	Valve, Solenoid	43	338-4725-03	1	Harness, Plug – Fuel Select
17	505-0089	1	Nipple, Pipe (1 x 5.00)	44	VM7980-1	1	Gasket – Woodward Part Number
18	502-1110-01	2	Connector, Hose	45	VM7980-3	2	Gasket – Woodward Part Number
19	512-0310-02	1	Coupling – Assembly	46	502-0175	1	Adapter, Pipe
20	503-2353-07	1	Hose, Fuel (LP)	47	502-0053	1	Elbow, Street – 45°
21	503-2157-02	2	Clamp, Hose	48	309-0669-01	1	Switch, Low Pressure
22	821-6007-02	4	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)	49	505-2349	1	Elbow, Switch – 90°
23	403-6464-02	1	Stiffener, Mount – Fuel System	50	850-2008	2	Washer, Lock
24	155-1015	1	Clamp, Muffler	51	526-2100	2	Washer, Flat (M8)
25	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)	52	526-0249-01	2	Washer, Flat
26	870-2065-03	2	Nut, Hex – Flange (M8 x 1.25)				
27	501-0776-05	1	Line, Fuel – Flexible				

Fuel System

Natural Gas/Liquid Propane – Dual Fuel

Spec E



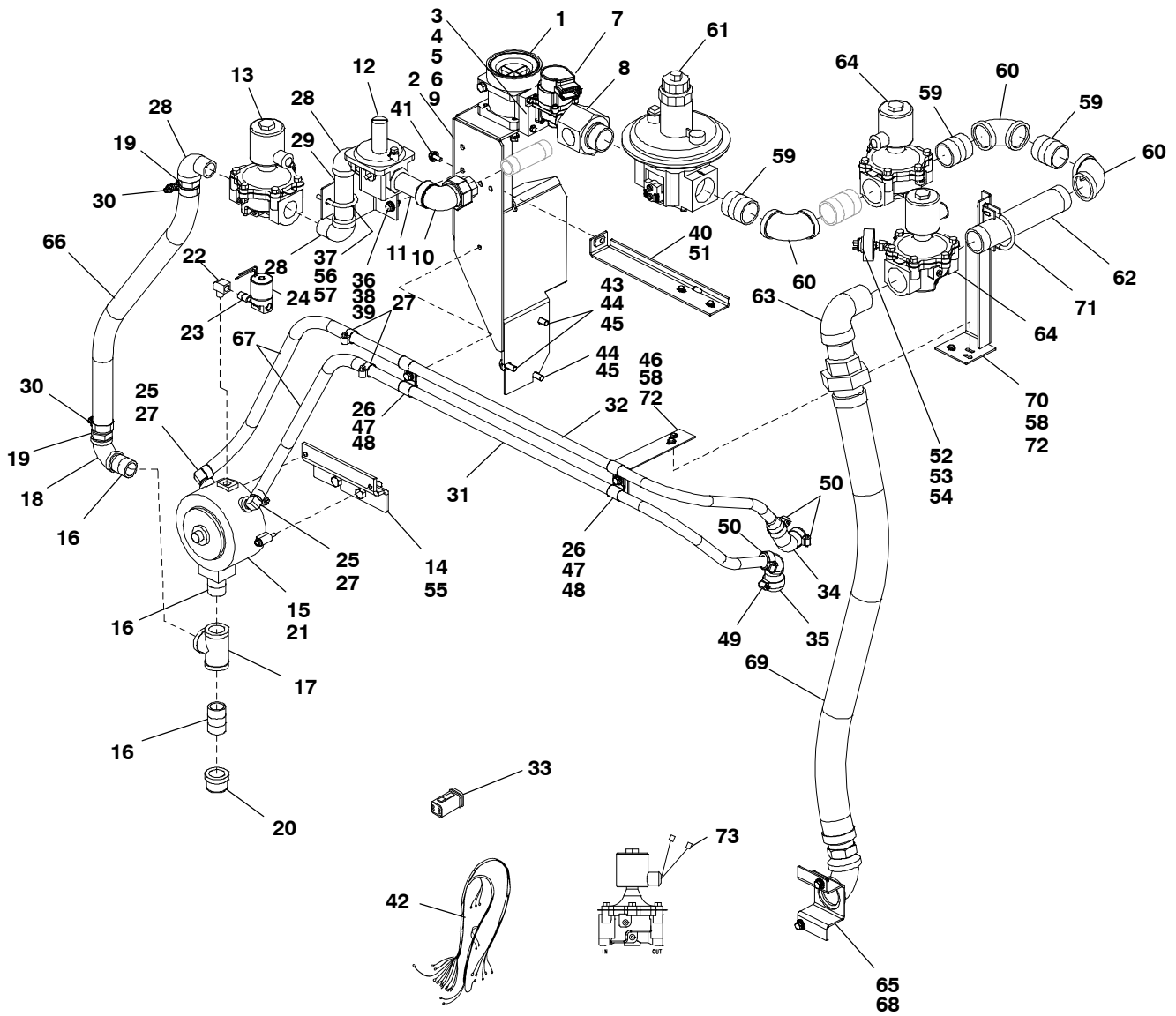
Fuel System

Natural Gas/Liquid Propane – Dual Fuel

Spec E

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0851	1	Mixer	38	870-2065-03	2	Nut, Hex – Flange (M8 x 1.25)
2	148-1309-02	1	Bracket, Fuel System	39	403-6233-02	1	Stiffener, Mount – Fuel System
3	148-1354	1	Adapter, Mixer	40	821-6003-01	1	Screw, Hex Head (M8 x 1.25 x 16)
4	850-0114-53	4	Washer, Lock – Split (M6)	41	338-4719-01	1	Harness, Extension
5	800-2036	2	Screw, Cap – Hex Head (M6 x 1 x 30)	42	526-0249-01	2	Washer, Flat (7/16)
6	800-2038	2	Screw, Cap – Hex Head (M6 x 1 x 40)	43	850-2010	3	Washer, Lock – Split (M10)
7	300-6409-02	1	Control, Fuel	44	718-1054	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
8	A028X585	1	Adapter, Pipe	45	148-1333-02	1	Bracket, Fuel System
9	505-2349	1	Elbow, Pipe	46	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)
10	505-0147	1	Nipple, Pipe (1 x 3.50)	47	870-2055	2	Nut, Lock – Flange (M8 x 1.25)
11	148-1202	1	Regulator, Fuel	48	503-1137	1	Clamp, Hose
12	307-2890	1	Valve, Solenoid	49	503-1136	3	Clamp, Hose
13	148-1308-02	1	Bracket, Converter	50	821-5002-04	2	Screw, Hex Head (1/4-20 x .63)
14	148-1240	1	Converter (LP)	51	502-0175	1	Adapter, Pipe
15	505-0107	3	Nipple, Pipe (1 x 2.00)	52	502-0053	1	Elbow, Street – 45°
16	505-0304	1	Tee, Pipe	53	309-0669-01	1	Switch, Low Pressure
17	505-0041	1	Elbow, Pipe	54	800-2115	2	Screw, Cap – Hex Head (M12 x 1.75 x 45)
18	502-1110-01	2	Connector, Hose	55	526-2100	2	Washer, Flat (M8 x 8.4)
19	505-0479	1	Cap, Pipe	56	850-2008	2	Washer, Lock – Spring (M8)
20	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)	57	800-0003	2	Screw, Cap – Hex Head (1/4-20 x .50)
21	502-0054	1	Elbow, Street – Pipe	58	505-2329	3	Nipple, Pipe (1-1/2 x 2)
22	505-0099	1	Nipple, Pipe (1/4 x .88)	59	505-0043	3	Elbow, Pipe
23	307-0268	1	Valve, Solenoid	60	148-1356	1	Regulator, Fuel (Vapor NG/LP)
24	502-0942	2	Elbow, 90° Hose (3/8 x 5/8)	61	505-2330	1	Nipple, Pipe (1-1/2 x 9)
25	518-0548-19	4	Clamp, Hose	62	505-0462	1	Elbow, Street – 90° (1-1/2)
26	503-0183	4	Clamp, Hose	63	504-0253	2	Valve, Solenoid
27	505-0003	3	Elbow, Street – 90°	64	821-6007-02	2	Screw, Hex Head (M8 x 1.25 x 20)
28	505-0089	1	Nipple, Pipe (1 x 5.00)	65	503-2353-06	1	Hose, Fuel (LP)
29	503-2157-02	2	Clamp, Hose	66	503-2293-02	2	Hose, Coolant
30	130-7108-02	1	Tube, Water	67	512-0288-02	1	Coupling – Assembly
31	130-7107-02	1	Tube, Water	68	501-0776-05	1	Line, Fuel – Flexible
32	338-4725-03	1	Harness, Plug – Fuel Select	69	148-1361-02	1	Bracket, Fuel System
33	503-2818	1	Hose, Cooling System	70	155-2548	1	Clamp, Muffler
34	503-2160	1	Hose, Coolant	71	853-0013	2	Washer, Lock – W/ET (1/4)
35	403-6464-02	1	Stiffener, Mount – Fuel System				
36	155-1015	1	Clamp, Muffler				
37	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)				

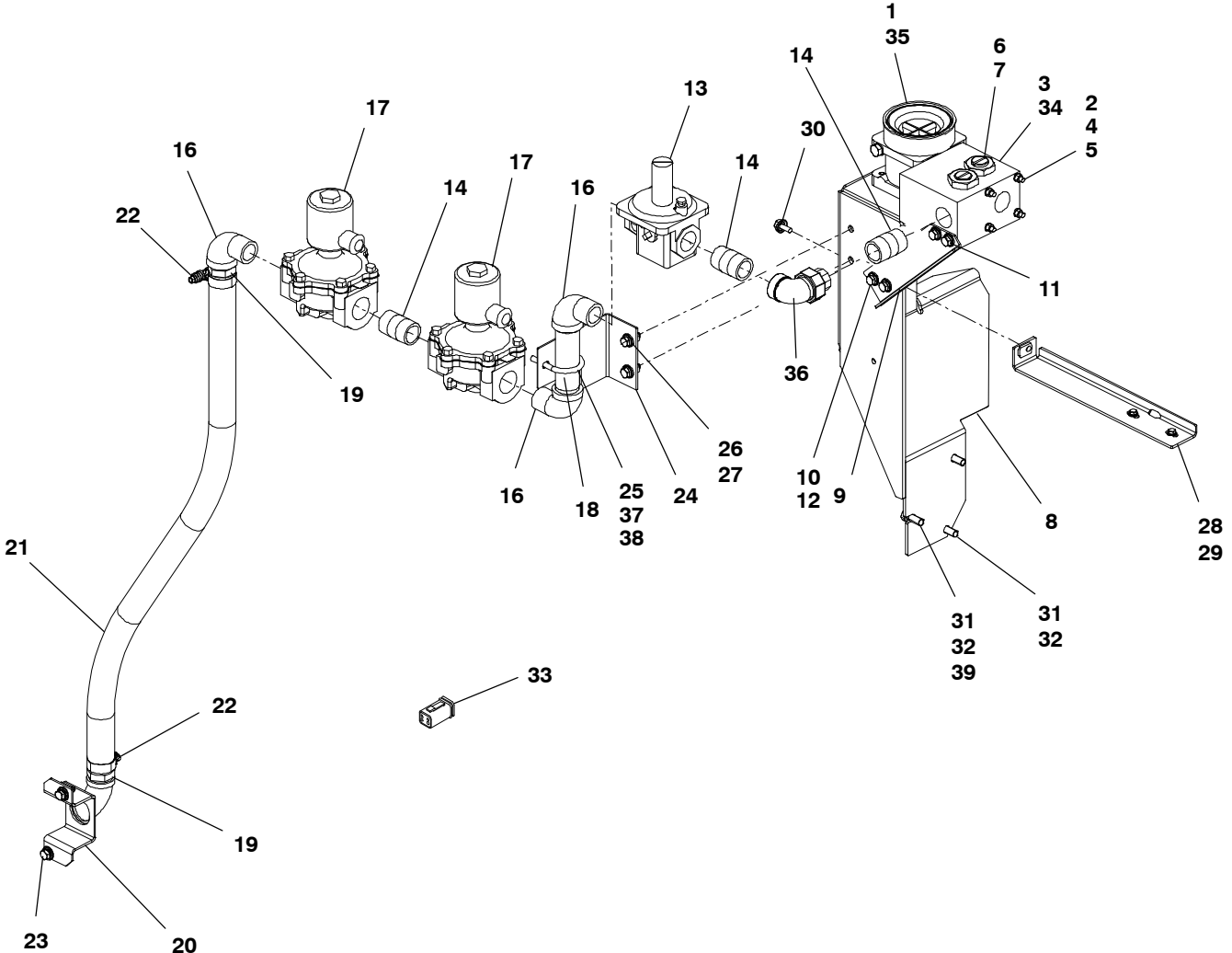
Fuel System
Natural Gas/Liquid Propane – Dual Fuel
GGLB
Begin Spec F



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

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0851	1	Mixer	39	870-2065-03	2	Nut, Hex – Flange (M8 x 1.25)
2	148-1309-02	1	Bracket, Fuel System	40	403-6233-02	1	Stiffener, Mount – Fuel System
3	148-1354	1	Adapter, Mixer	41	821-6003-01	1	Screw, Hex Head (M8 x 1.25 x 16)
4	850-0114-53	4	Washer, Lock – Split (M6)	42	338-4719-01	1	Harness, Extension
5	800-2036	2	Screw, Cap – Hex Head (M6 x 1 x 30)	43	526-0249-01	2	Washer, Flat (7/16)
6	800-2038	2	Screw, Cap – Hex Head (M6 x 1 x 40)	44	850-2010	3	Washer, Lock – Split (M10)
7	A026H952	1	Control, Fuel	45	718-1054	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
8	A028X585	1	Adapter, Pipe	46	148-1333-02	1	Bracket, Fuel System
9	148-1241	1	Gasket	47	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)
10	505-2349	1	Elbow, Pipe	48	870-2055	2	Nut, Lock – Flange (M8 x 1.25)
11	505-0147	1	Nipple, Pipe (1 x 3.50)	49	503-1137	1	Clamp, Hose
12	A026H173	1	Regulator, Fuel	50	503-1136	3	Clamp, Hose
13	307-2890	1	Valve, Solenoid	51	821-5002-04	2	Screw, Hex Head (1/4-20 x .63)
14	148-1308-02	1	Bracket, Converter	52	502-0175	1	Adapter, Pipe
15	148-1240	1	Converter (LP)	53	502-0053	1	Elbow, Street – 45°
16	505-0107	3	Nipple, Pipe (1 x 2.00)	54	309-0669-01	1	Switch, Low Pressure
17	505-0304	1	Tee, Pipe	55	800-2115	2	Screw, Cap – Hex Head (M12 x 1.75 x 45)
18	505-0041	1	Elbow, Pipe	56	526-2100	2	Washer, Flat (M8 x 8.4)
19	502-1110-01	2	Connector, Hose	57	850-2008	2	Washer, Lock – Spring (M8)
20	505-0479	1	Cap, Pipe	58	800-0003	2	Screw, Cap – Hex Head (1/4-20 x .50)
21	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)	59	505-2329	3	Nipple, Pipe (1-1/2 x 2)
22	502-0054	1	Elbow, Street – Pipe	60	505-0043	3	Elbow, Pipe
23	505-0099	1	Nipple, Pipe (1/4 x .88)	61	A026H167	1	Regulator, Fuel (Vapor NG/LP)
24	307-0268	1	Valve, Solenoid	62	505-2330	1	Nipple, Pipe (1-1/2 x 9)
25	502-0942	2	Elbow, 90° Hose (3/8 x 5/8)	63	505-0462	1	Elbow, Street – 90° (1-1/2)
26	518-0548-19	4	Clamp, Hose	64	504-0253	2	Valve, Solenoid
27	503-0183	4	Clamp, Hose	65	821-6007-02	2	Screw, Hex Head (M8 x 1.25 x 20)
28	505-0003	3	Elbow, Street – 90°	66	503-2353-06	1	Hose, Fuel (LP)
29	505-0089	1	Nipple, Pipe (1 x 5.00)	67	503-2293-02	2	Hose, Coolant
30	503-2157-02	2	Clamp, Hose	68	512-0288-02	1	Coupling – Assembly
31	130-7108-02	1	Tube, Water	69	501-0776-05	1	Line, Fuel – Flexible
32	130-7107-02	1	Tube, Water	70	148-1361-02	1	Bracket, Fuel System
33	338-4725-03	1	Harness, Plug – Fuel Select	71	155-2548	1	Clamp, Muffler
34	503-2818	1	Hose, Cooling System	72	853-0013	2	Washer, Lock – W/ET (1/4)
35	503-2160	1	Hose, Coolant	73	332-2430	8	Terminal, Receptacle
36	403-6464-02	1	Stiffener, Mount – Fuel System				
37	155-1015	1	Clamp, Muffler				
38	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)				

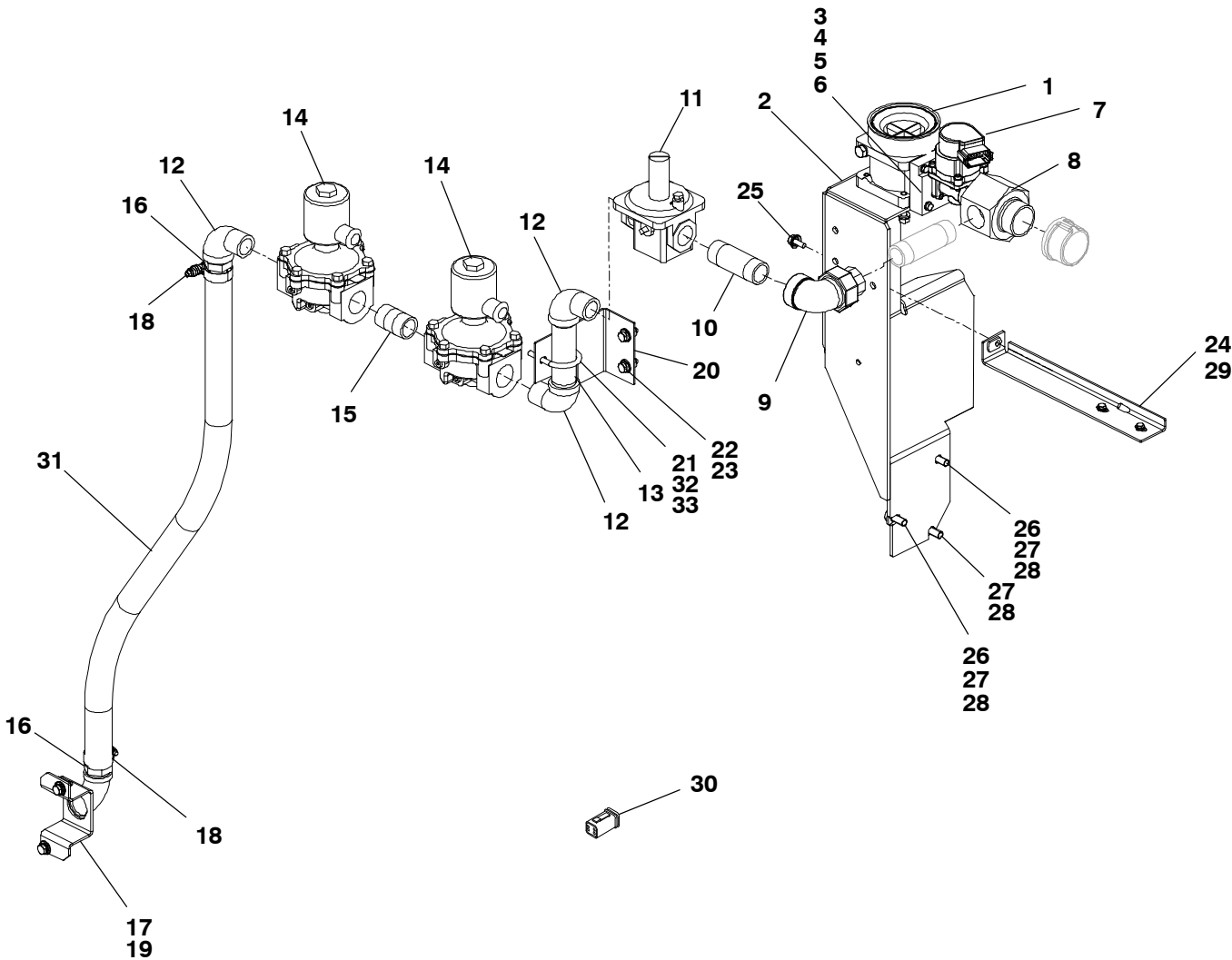
Fuel System
Propane Vapor
Spec C-D



**Fuel System
Propane Vapor
Spec C-D**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0851	1	Mixer	23	821-6007-02	2	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)
2	520-2041	4	Stud (M6 x 1 x 140)	24	403-6464-02	1	Stiffener, Mount – Fuel System
3	147-0895	1	Manifold, Fuel	25	155-1015	1	Clamp, Muffler
4	850-0114-53	4	Washer, Lock – Split (M6)	26	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)
5	862-0026-54	4	Nut, Hex (M6)	27	870-2065-03	2	Nut, Hex – Flange (M8 x 1.25)
6	147-0896	2	Screw, Bleed	28	403-6233-02	1	Stiffener, Mount – Fuel System
7	860-2073	2	Nut, Hex – Jam (M24 x 1.25)	29	821-6003-01	2	Screw, Hex (M8 x 1.25 x 16)
8	148-1309-02	1	Bracket, Fuel System	30	821-5002-04	2	Screw, Hex Head (1/4-20 x .63)
9	403-6155-02	1	Stiffener, Mount – Fuel System	31	850-2010	3	Washer, Lock – Split (M10)
10	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)	32	718-1054	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
11	821-6003-01	2	Screw, Hex Head (M8 x 1.25 x 16)	33	338-4725-02	1	Harness, Plug – Fuel Select
12	870-2065-03	2	Nut, Hex – Flange	34	VM7980-1	1	Gasket – Woodward Part Number
13	148-1202	1	Regulator, Fuel	35	VM7980-3	2	Gasket – Woodward Part Number
14	505-0107	3	Nipple, Pipe (1 x 2.00)	36	505-2349	1	Elbow, Pipe – 90°
15	148-1202	1	Regulator, Fuel	37	850-2008	2	Washer, Lock – Spring (1/4)
16	505-0003	3	Elbow, Street – 90°	38	526-2100	2	Washer, Flat (M8 x 8.4)
17	307-2890	2	Valve, Solenoid	39	526-0249-01	2	Washer, Flat
18	505-0089	1	Nipple, Pipe (1 x 5.00)				
19	502-1110-01	2	Connector, Hose				
20	512-0310-02	1	Coupling – Assembly				
21	503-2353-07	1	Hose, Fuel – LP				
22	503-2157-02	2	Clamp, Hose				

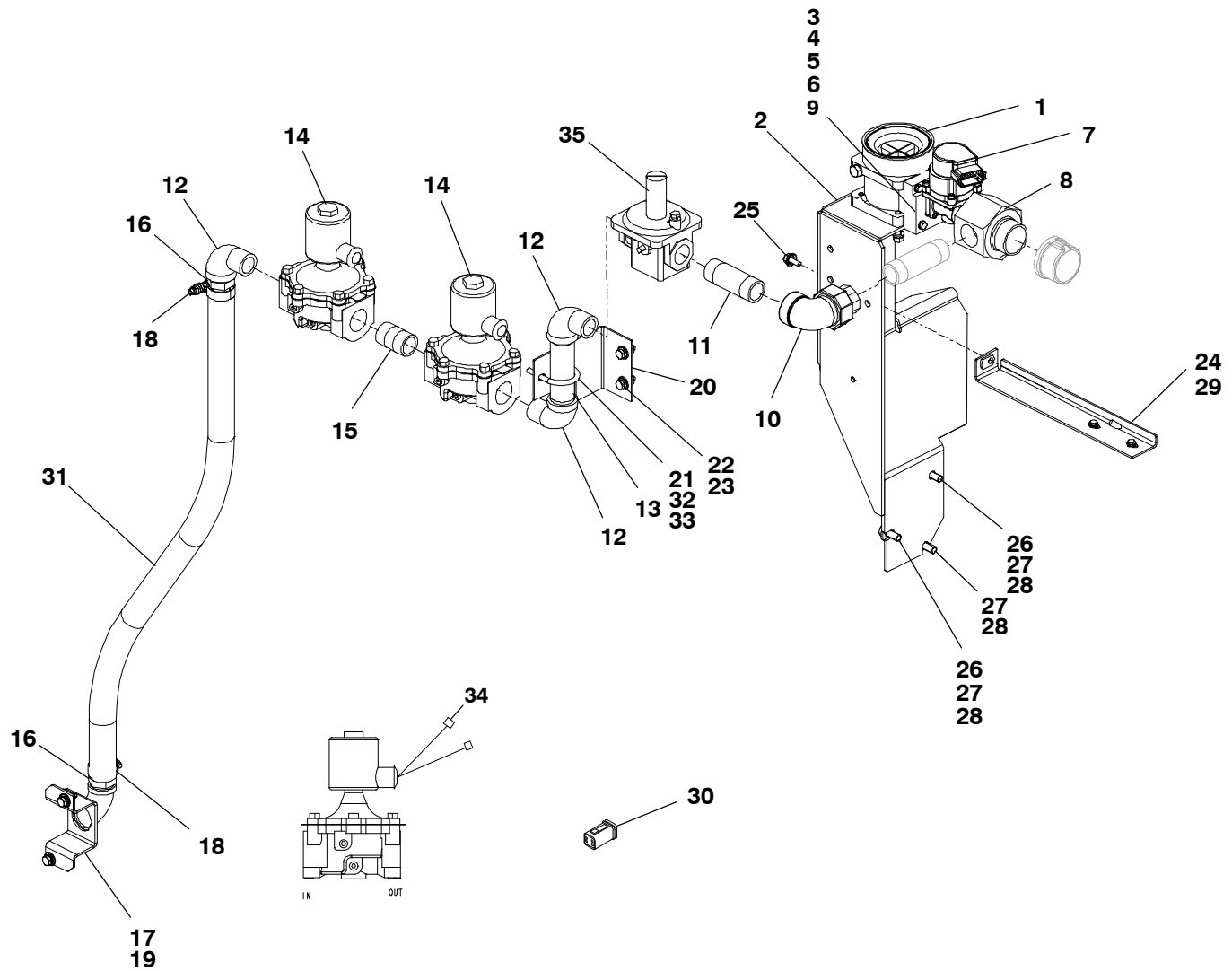
Fuel System
Propane Vapor
Spec E



**Fuel System
Propane Vapor
Spec E**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0851	1	Mixer	18	503-2157-02	2	Clamp, Hose
2	148-1309-02	1	Bracket, Fuel System	19	821-6007-02	2	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)
3	148-1354	1	Adapter, Mixer	20	403-6464-02	1	Stiffener, Mount – Fuel System
4	850-0114-53	4	Washer, Lock – Split (M6)	21	155-1015	1	Clamp, Muffler
5	800-2036	2	Screw, Cap – Hex Head (M6 x 1 x 30)	22	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)
6	800-2038	2	Screw, Cap – Hex Head (M6 x 1 x 40)	23	870-2065-03	2	Nut, Hex – Flange (M8 x 1.25)
7	300-6409-02	1	Control, Fuel	24	403-6233-02	1	Stiffener, Mount – Fuel System
8	A028X585	1	Adapter, Pipe	25	821-6003-01	1	Screw, Hex (M8 x 1.25 x 16)
9	505-2349	1	Elbow, Pipe – 90°	26	526-0249-01	2	Washer, Flat (7/16)
10	505-0147	1	Nipple, Pipe (1 x 3.50)	27	850-2010	3	Washer, Lock – Split (M10)
11	148-1202	1	Regulator, Fuel	28	718-1054	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
12	505-0003	3	Elbow, Street – 90°	29	821-5002-04	2	Screw, Hex Head (1/4-20 x .63)
13	505-0089	1	Nipple, Pipe (1 x 5.00)	30	338-4725-02	1	Harness, Plug – Fuel Select
14	307-2890	2	Valve, Solenoid	31	503-2353-07	1	Hose, Fuel – LP
15	505-0107	1	Nipple, Pipe (1 x 2.00)	32	850-2008	2	Washer, Lock – Spring (1/4)
16	502-1110-01	2	Connector, Hose	33	526-2100	2	Washer, Flat (M8 x 8.4)
17	512-0310-02	1	Coupling – Assembly				

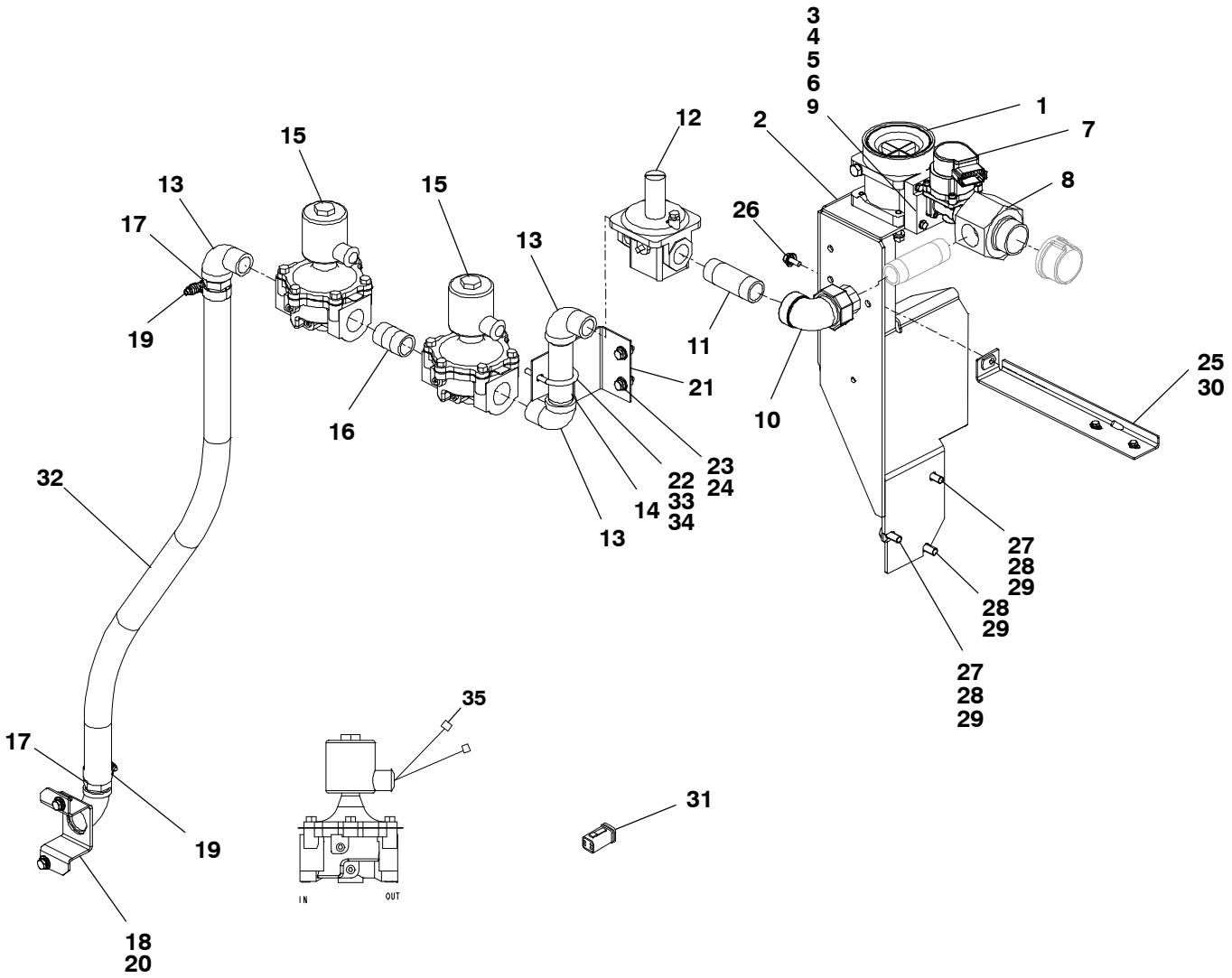
Fuel System
Propane Vapor
GGLA
Begin Spec F



**Fuel System
Propane Vapor
GGLA
Begin Spec F**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0851	1	Mixer	19	821-6007-02	2	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)
2	148-1309-02	1	Bracket, Fuel System	20	403-6464-02	1	Stiffener, Mount – Fuel System
3	148-1354	1	Adapter, Mixer	21	155-1015	1	Clamp, Muffler
4	850-0114-53	4	Washer, Lock – Split (M6)	22	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)
5	800-2036	2	Screw, Cap – Hex Head (M6 x 1 x 30)	23	870-2065-03	2	Nut, Hex – Flange (M8 x 1.25)
6	800-2038	2	Screw, Cap – Hex Head (M6 x 1 x 40)	24	403-6233-02	1	Stiffener, Mount – Fuel System
7	A026H951	1	Control, Fuel	25	821-6003-01	1	Screw, Hex (M8 x 1.25 x 16)
8	A028X585	1	Adapter, Pipe	26	526-0249-01	2	Washer, Flat (7/16)
9	148-1241	1	Gasket	27	850-2010	3	Washer, Lock – Split (M10)
10	505-2349	1	Elbow, Pipe – 90°	28	718-1054	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
11	505-0147	1	Nipple, Pipe (1 x 3.50)	29	821-5002-04	2	Screw, Hex Head (1/4-20 x .63)
12	505-0003	3	Elbow, Street – 90°	30	338-4725-02	1	Harness, Plug – Fuel Select
13	505-0089	1	Nipple, Pipe (1 x 5.00)	31	503-2353-07	1	Hose, Fuel – LP
14	307-2890	2	Valve, Solenoid	32	850-2008	2	Washer, Lock – Spring (1/4)
15	505-0107	1	Nipple, Pipe (1 x 2.00)	33	526-2100	2	Washer, Flat (M8 x 8.4)
16	502-1110-01	2	Connector, Hose	34	332-2430	4	Terminal, Receptacle
17	512-0310-02	1	Coupling – Assembly	35	A026H171	1	Regulator, Fuel
18	503-2157-02	2	Clamp, Hose				

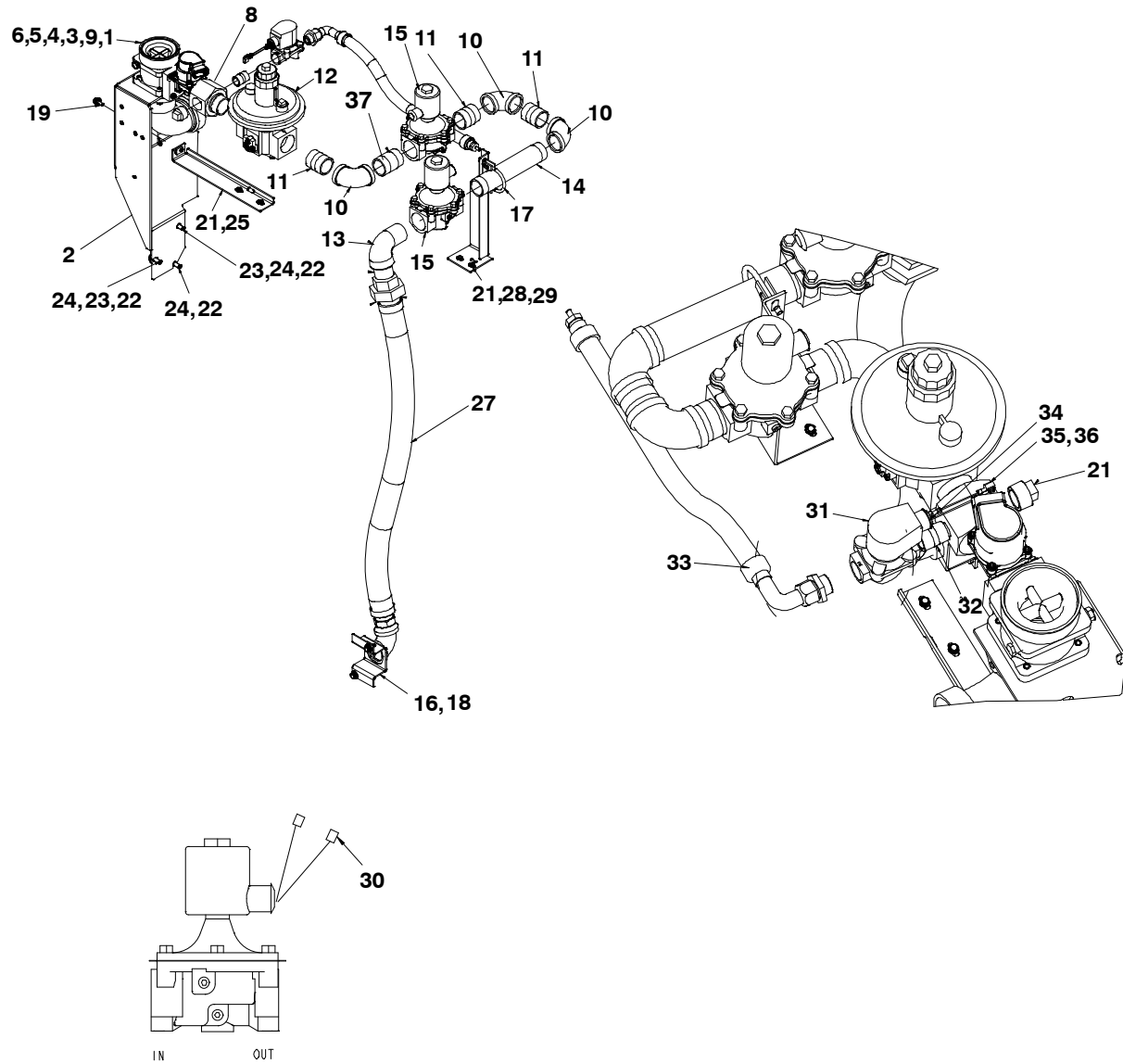
Fuel System
Propane Vapor
GGLB
Begin Spec F



**Fuel System
Propane Vapor
GGLB
Begin Spec F**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0851	1	Mixer	19	503-2157-02	2	Clamp, Hose
2	148-1309-02	1	Bracket, Fuel System	20	821-6007-02	2	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)
3	148-1354	1	Adapter, Mixer	21	403-6464-02	1	Stiffener, Mount – Fuel System
4	850-0114-53	4	Washer, Lock – Split (M6)	22	155-1015	1	Clamp, Muffler
5	800-2036	2	Screw, Cap – Hex Head (M6 x 1 x 30)	23	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)
6	800-2038	2	Screw, Cap – Hex Head (M6 x 1 x 40)	24	870-2065-03	2	Nut, Hex – Flange (M8 x 1.25)
7	A026H952	1	Control, Fuel	25	403-6233-02	1	Stiffener, Mount – Fuel System
8	A028X585	1	Adapter, Pipe	26	821-6003-01	1	Screw, Hex (M8 x 1.25 x 16)
9	148-1241	1	Gasket	27	526-0249-01	2	Washer, Flat (7/16)
10	505-2349	1	Elbow, Pipe – 90°	28	850-2010	3	Washer, Lock – Split (M10)
11	505-0147	1	Nipple, Pipe (1 x 3.50)	29	718-1054	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
12	A026H173	1	Regulator, Fuel	30	821-5002-04	2	Screw, Hex Head (1/4-20 x .63)
13	505-0003	3	Elbow, Street – 90°	31	338-4725-02	1	Harness, Plug – Fuel Select
14	505-0089	1	Nipple, Pipe (1 x 5.00)	32	503-2353-07	1	Hose, Fuel – LP
15	307-2890	2	Valve, Solenoid	33	850-2008	2	Washer, Lock – Spring (1/4)
16	505-0107	1	Nipple, Pipe (1 x 2.00)	34	526-2100	2	Washer, Flat (M8 x 8.4)
17	502-1110-01	2	Connector, Hose	35	332-2430	4	Terminal, Receptacle
18	512-0310-02	1	Coupling – Assembly				

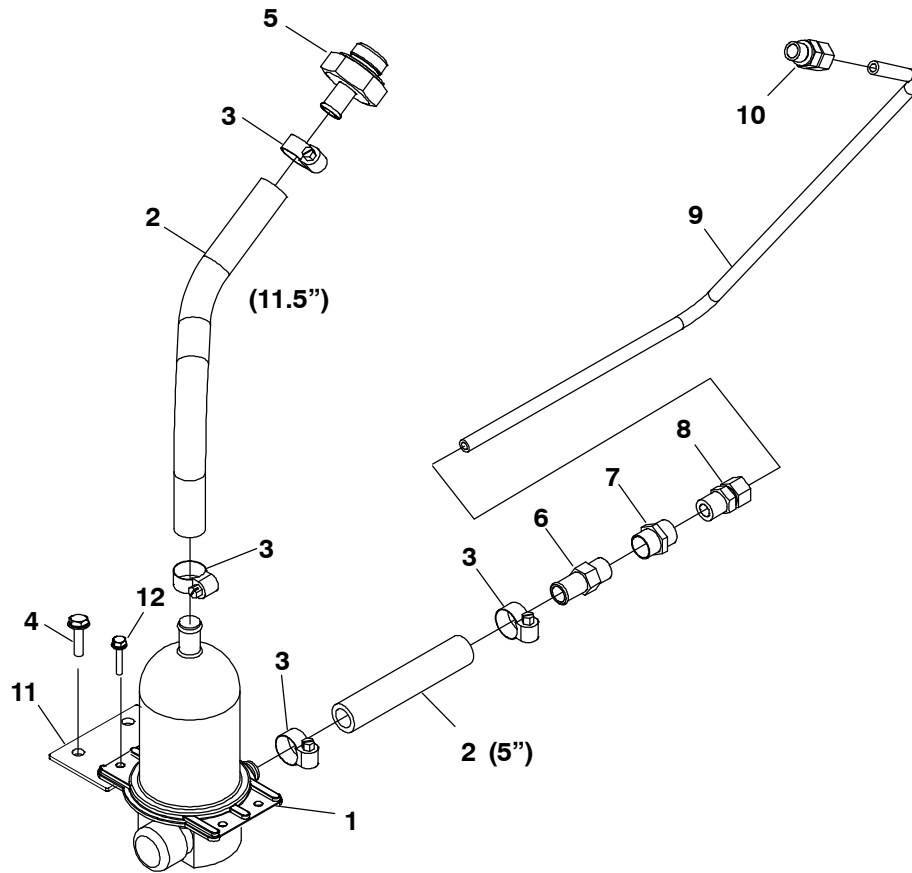
**Fuel System
Natural Gas
GGLB
Begin Spec G**



**Fuel System
Natural Gas
GGLB
Begin Spec G**

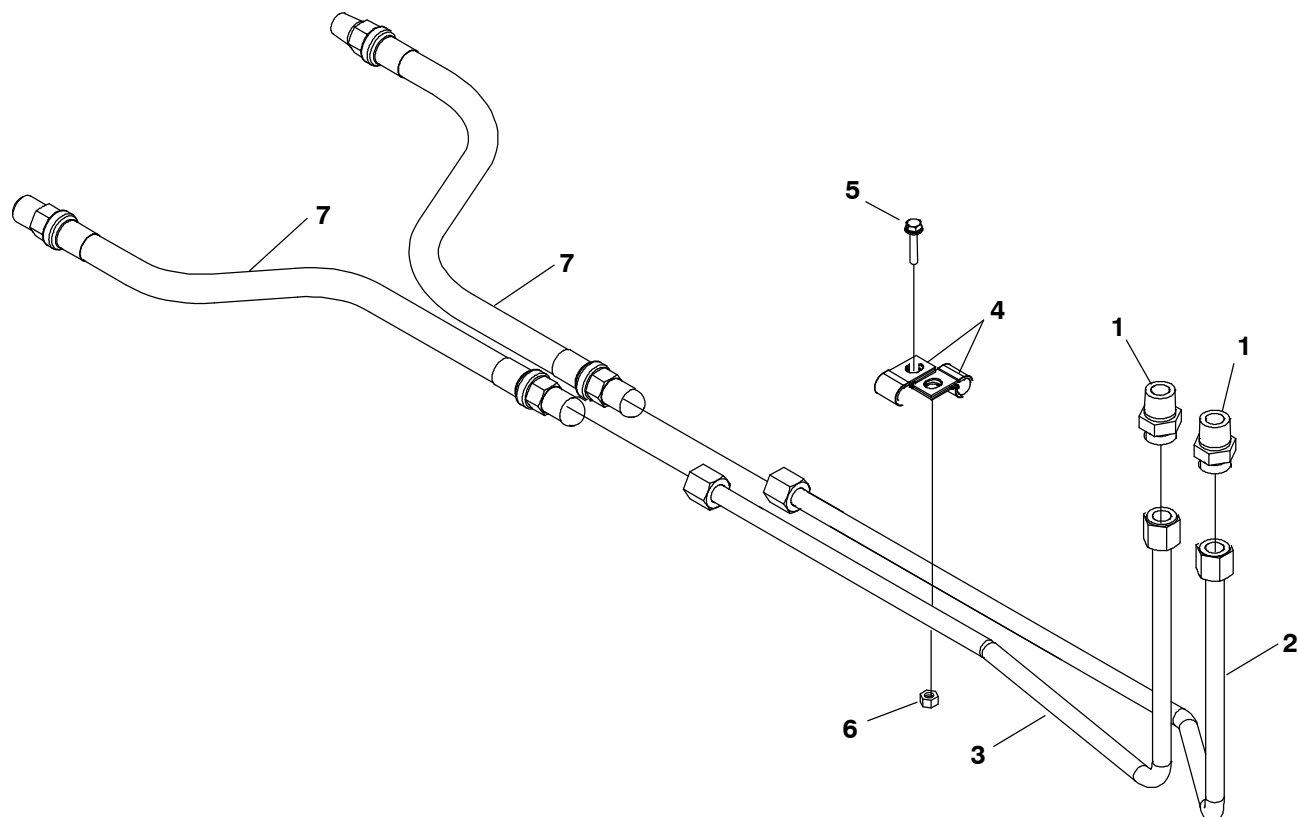
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0851	1	Mixer	19	821-6003-01	1	Screw, Hex Head (M8 x 1.25 x 20)
2	148-1309-02	1	Bracket, Fuel System	20	870-2065-03	2	Nut, Hex – Flange (M8 x 1.25)
3	148-1354	1	Adapter, Mixer	21	148-1361-02	1	Stiffener, Mount – Fuel System
4	850-0114-53	4	Washer, Lock – Split (M6)	22	800-2086	3	Screw, Hex (M10 x 25)
5	718-1054	2	Screw, Cap – Hex Head (M6 x 1 x 30)	23	526-0249-01	2	Washer, Flat (7/16)
6	800-2038	2	Screw, Cap – Hex Head (M6 x 1 x 40)	24	850-2010	3	Washer, Lock – Split (M10)
7	A026H952	1	Control, Fuel	25	821-5002-04	2	Screw, Hex Head (1/4-20 x .63)
8	A028X585	1	Adapter, Pipe	26	338-4725-02	1	Harness, Plug – Fuel Select
9	148-1241	1	Gasket	27	501-0776-05	1	Hose, Fuel – NG
10	505-0043	3	Elbow, Pipe – 90°	28	853-0013	2	Washer, Lock
11	505-2329	3	Nipple, Pipe	29	800-0003	2	Screw, Hex
12	A026H167	1	Regulator, Fuel	30	332-2430	4	Terminal, Receptacle
13	505-0462	3	Elbow, Street – 90°	31	307-2930	1	Valve, Solenoid
14	A040E741	1	Nipple, Pipe	32	505-0102	1	Adapter, Close Nipple
15	504-0253	2	Valve, Solenoid	33	A028Y924	1	Line, Fuel
16	512-0288-02	1	Coupling – Assembly	34	508-1158	1	Grommet
17	155-2548	1	Clamp, Hose	35	226-4797-05	1	Lead
18	821-6007-02	2	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)	36	226-4797-06	1	Lead
				37	A040E743	1	Nipple, Fitting

Engine Coolant Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater, Engine Coolant	5	505-2194	1	Adapter (M28 x 1.25mm)
	333-0588-03	1	1500W, 120V	6	502-0943	1	Connector, Hose (3/8 x 5/8 Hose)
	333-0588-04	1	1500W, 240V	7	502-0112	1	Coupling, Pipe (3/8-18)
2	503-1988	-	Hose, Engine Coolant - Bulk (Order by the Foot - 2 Feet Required)	8	505-2196	1	Adapter, Pipe (3/8-18)
3	503-0183	4	Clamp, Hose	9	130-6073	1	Tube, Water Heater
4	815-0261	2	Screw, Hex Head Thread Form (1/4-20 x .5")	10	505-2195	1	Adapter, Pipe (M14x 1.5mm)
				11	333-0695-02	1	Bracket, Heater
				12	821-6002-02	2	Screw, Hex Head (M6 x 1.0 x 12mm)

Oil Cooler Lines

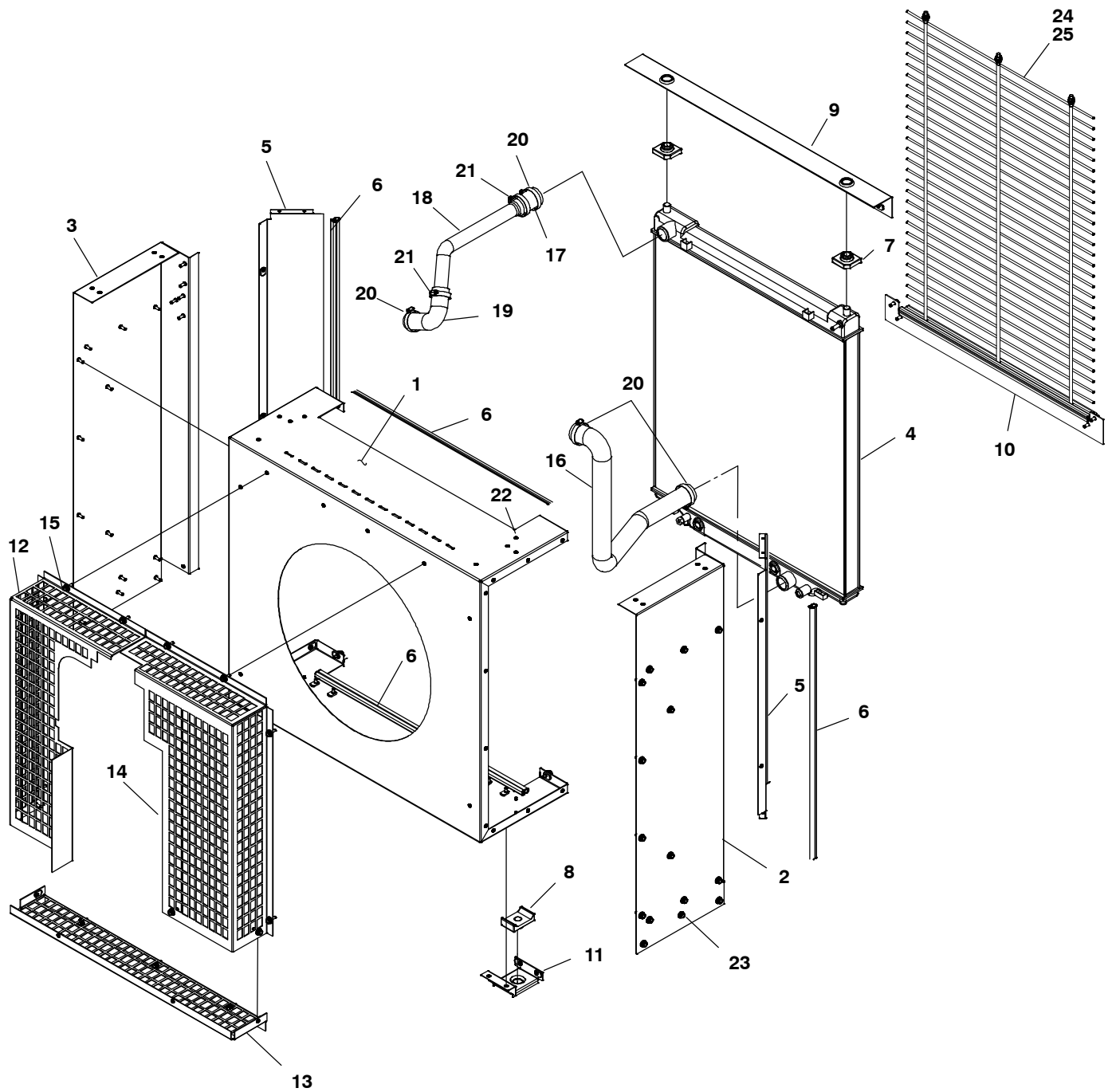


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-1131	2	Adapter, Male
2	501-0826	1	Line, Oil
3	501-0827	1	Line, Oil
4	518-0548-22	2	Clamp, Hose
5	821-6003-03	1	Screw, Hex Head Sems (M8 x 1.25 x 25mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	750-1006	1	Nut, Hex (M8 x 1.25mm)
7	501-0825-01	2	*Assy, Hose Oil

* - Includes 5/6-18 UNF male and 3/4-16 UNF 45° flared male fittings.

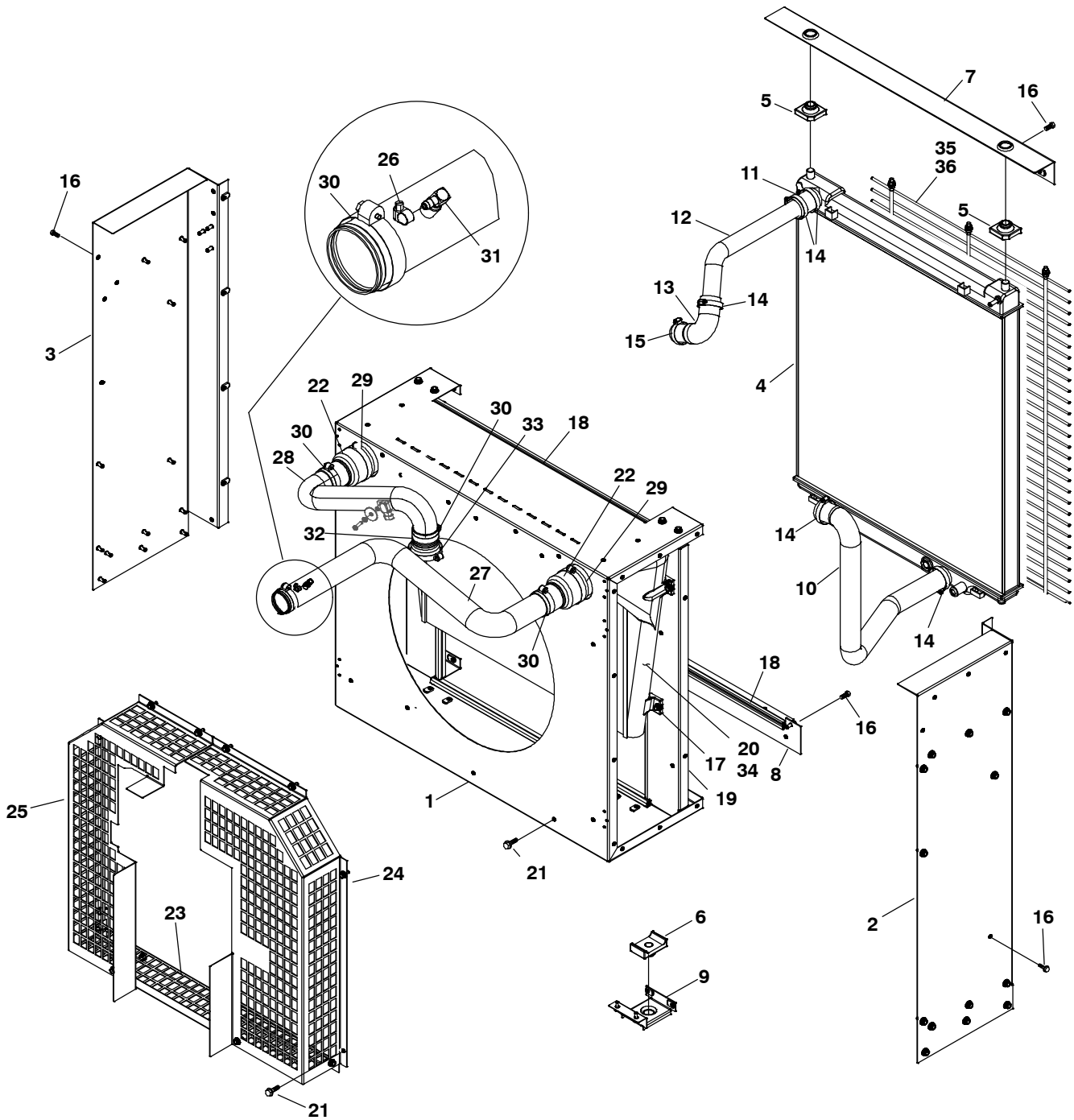
Cooling System GGLA Spec A, B



Cooling System GGLA Spec A, B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5977-02	1	Shroud, Fan	14	130-6005-02	1	Guard, Radiator Fan
2	130-5978-02	1	Bracket, Shroud	15	821-6003-02	19	Screw, Hex Head Sems (M8 x 1.25 x 20mm)
3	130-5979-02	1	Bracket, Shroud	16	503-2464	1	Hose, Radiator
4	130-5996-02	1	Radiator	17	503-2463	1	Hose, Radiator
5	130-5998-02	2	Baffle, Radiator Air	18	130-6010-02	1	Tube, Radiator
6	895-0381	-	Seal, Weather - Bulk (Order by the Foot - 15 Feet Required)	19	503-2465	1	Hose, Coolant
7	508-1197	2	Bushing	20	503-1141	4	Screw, Hose Clamp
8	508-1196	2	Bushing	21	503-1872-02	2	Clamp, Hose
9	130-5999-02	1	Bracket, Radiator	22	818-0231-01	8	Rivet, Pop
10	405-7809-02	1	Panel, Duct	23	821-6007-02	40	Screw, Hex Head Sems Stainless (M8 x 1.25 x 20mm)
11	130-6003-02	2	Bracket, Radiator	24	130-6111-02	1	Guard, Radiator
12	130-6004-02	1	Guard, Radiator Fan	25	870-0550-09	6	Nut, Hex - Flange (3/8-16)
13	130-6006-02	1	Guard, Radiator Fan				

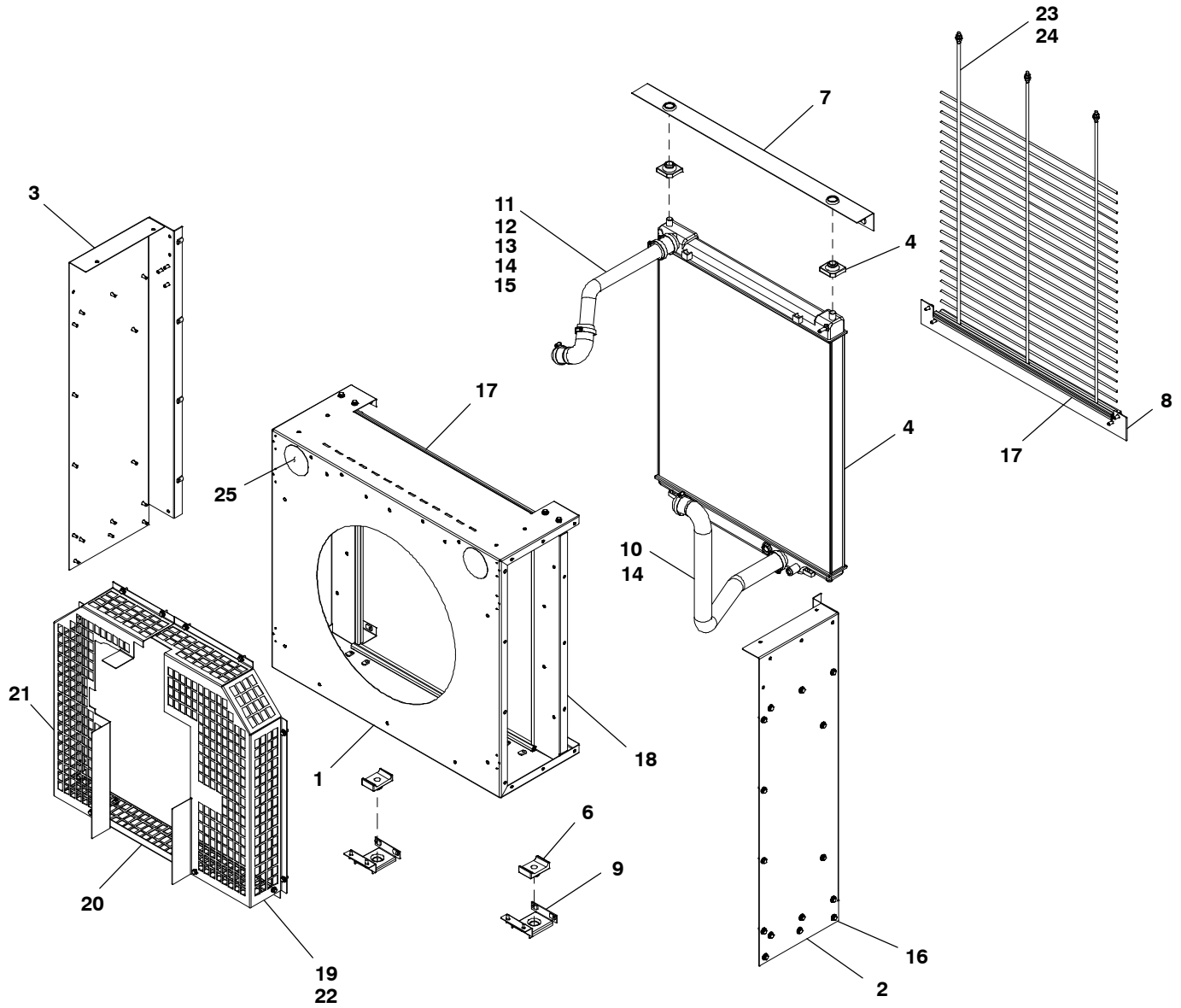
Cooling System GGLB



Cooling System GGLB

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6158-02	1	Shroud, Fan	17	800-2515	4	Screw, Cap – Hex Head (M8 x 1.25 x 30mm)
2			Bracket, Shroud	18	895-0381	–	Seal, Weather – Bulk (Order by the Foot – 15 Required)
	130-6159-02	1	CAC Steel Housing	19	130-6126-02	2	Air, Baffle – Radiator
	130-7052-03	1	CAC Aluminum Housing	20	154-3178	1	Cooler, Charge Air
3			Bracket, Shroud	21	821-6003-01	25	Screw, Hex Head Sems (M8 x 1.25 x 16mm)
	130-6160-02	1	CAC Steel Housing	22	502-1503	2	Connector, Tube
	130-7053-03	1	CAC Aluminum Housing	23	130-6006-02	1	Guard, Radiator Fan
4	130-5996-02	1	Radiator	24	130-6172-02	1	Guard, Radiator Fan
5	508-1197	2	Bushing	25	130-6173-02	1	Guard, Radiator Fan
6	508-1196	2	Bushing	26	503-0685	1	Clamp, Hose
7	130-5999-02	1	Bracket, Radiator	27	127-0465-02	1	Tube, Turbocharger
8			Panel, Duct	28	A028X586	1	Tube, Air Discharge
	405-7809-02	1	CAC Steel Housing	29	503-1872-06	2	Clamp, Hose
	405-9585-02	1	CAC Aluminum Housing	30	503-1872-04	4	Clamp, Hose
9	130-6003-02	2	Bracket, Radiator	31	502-0313	1	Elbow, 90° Hose
10	503-2464	1	Hose, Radiator	32	502-1509	1	Connector, Tube
11	503-2463	1	Hose, Radiator	33	503-1872-05	1	Clamp, Hose
12	130-6010-02	1	Tube, Radiator	34	526-0113	4	Washer, Flat
13	503-2465	1	Hose, Coolant	35	130-6530-02	1	Guard, Radiator
14	503-1141	5	Screw, Hose Clamp	36	870-0550-09	6	Nut, Hex – Flange (3/8-16)
15	503-1872-02	1	Clamp, Hose				
16	821-6007-02	40	Screw, Hex Head Sems Stainless (M8 x 1.25 x 20mm)				

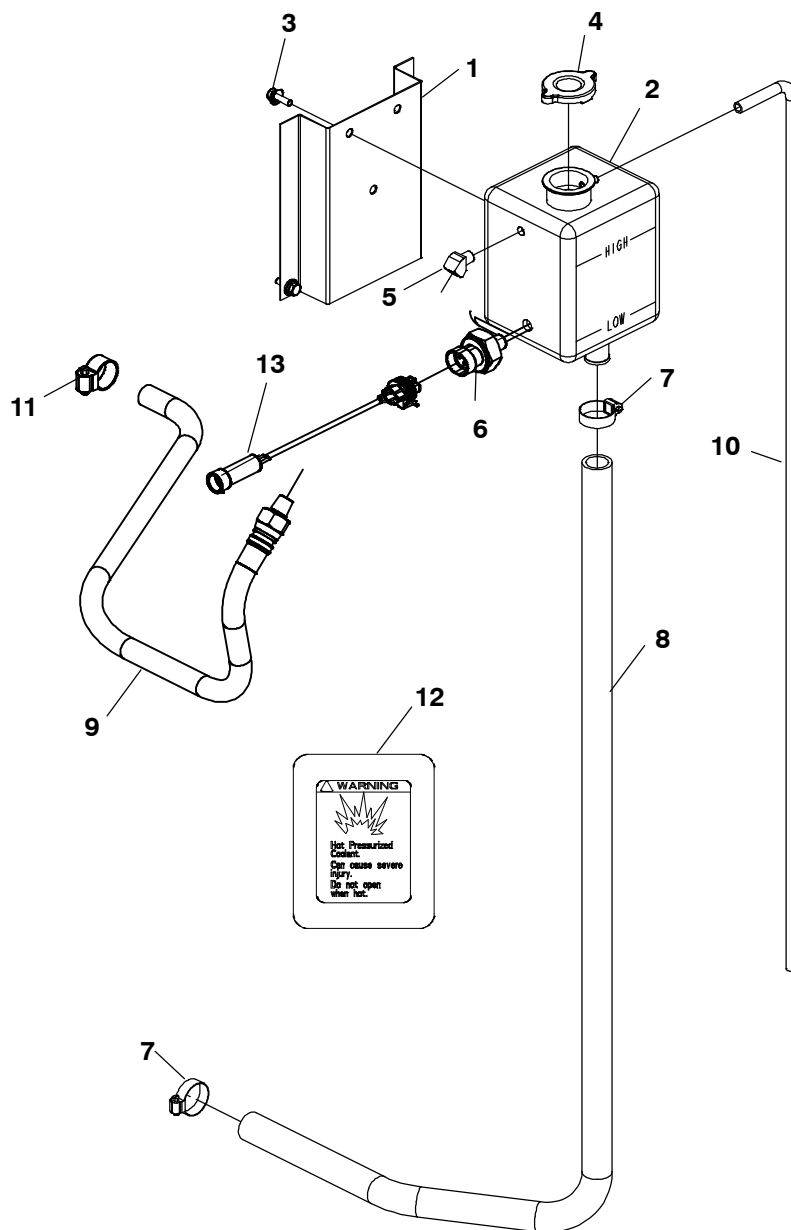
Cooling System GGLA Begin Spec C



Cooling System GGLA Begin Spec C

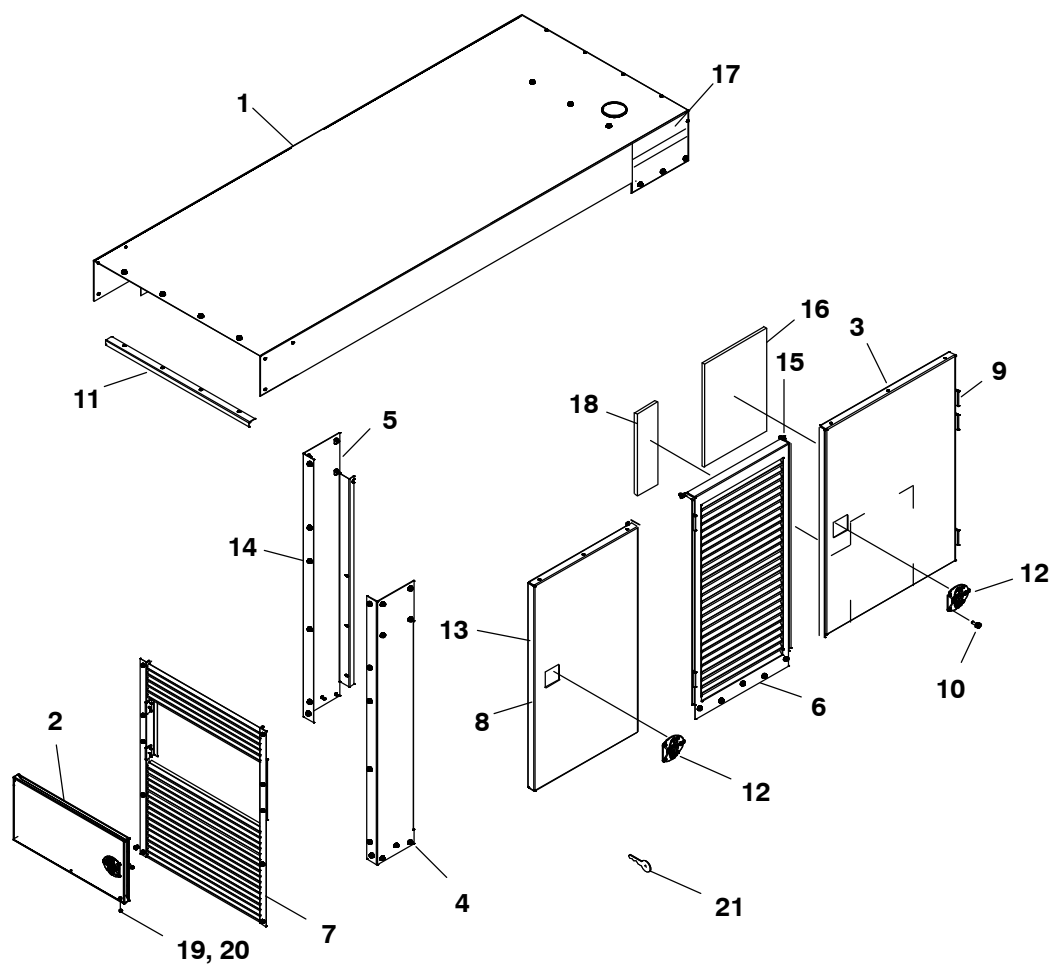
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6158-02	1	Shroud, Fan	12	130-6010-02	1	Tube, Radiator
2			Bracket, Shroud	13	503-2465	1	Hose, Coolant
	130-6159-02	1	Steel Housing	14	503-1141	5	Screw, Hose Clamp
	130-7052-03	1	Aluminum Housing	15	503-1872-02	1	Clamp, Hose
3			Bracket, Shroud	16	821-6007-02	40	Screw, Hex Head Sems
	130-6160-02	1	Steel Housing				Stainless (M8 x 1.25 x 20mm)
	130-7053-03	1	Aluminum Housing	17	895-0381	-	Seal, Weather - Bulk (Order by the Foot - 15 Required)
4	130-5996-02	1	Radiator	18	130-6126-02	2	Air, Baffle - Radiator
5	508-1197	2	Bushing	19	821-6003-01	25	Screw, Hex Head Sems
6	508-1196	2	Bushing				(M8 x 1.25 x 16mm)
7	130-5999-02	1	Bracket, Radiator	20	130-6006-02	1	Guard, Radiator Fan
8			Panel, Duct	21	130-6172-02	1	Guard, Radiator Fan
	405-7809-02	1	Steel Housing	22	130-6173-02	1	Guard, Radiator Fan
	405-9585-02	1	Aluminum Housing	23	130-6530-02	1	Guard, Radiator
9	130-6003-02	2	Bracket, Radiator	24	870-0550-09	6	Nut, Hex - Flange (3/8-16)
10	503-2464	1	Hose, Radiator	25	517-0381	2	Plug, Hole (4")
11	503-2463	1	Hose, Radiator				

Overflow Bottle



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6034-02	1	Bracket, Coolant Recovery	10	503-0276	–	Hose – Bulk (Order by the Foot – 5
2	130-6033	1	Tank, Coolant				Feet Required)
3	821-6003-01	5	Screw, Hex Head Sems (M8 x 1.25 x 20mm)	11	503-1134	1	Screw, Clamp Hose
4	130-3721	1	Cap, Radiator	12	098-8610	1	Label, Information
5	502-0156	1	Elbow, Street 45°	13	A029L465	1	Harness Assy,
6	A028Z105	1	Switch, Low Coolant Level				
7	503-1137	2	Screw, Clamp Hose				
8	503-2079	–	Hose (Coolant) – Bulk (Order by the Foot – 5 Feet Required)				
9	501-0744-08	1	*Hose, Assy (Coolant) (Order by the Foot – 5 Feet Required)				

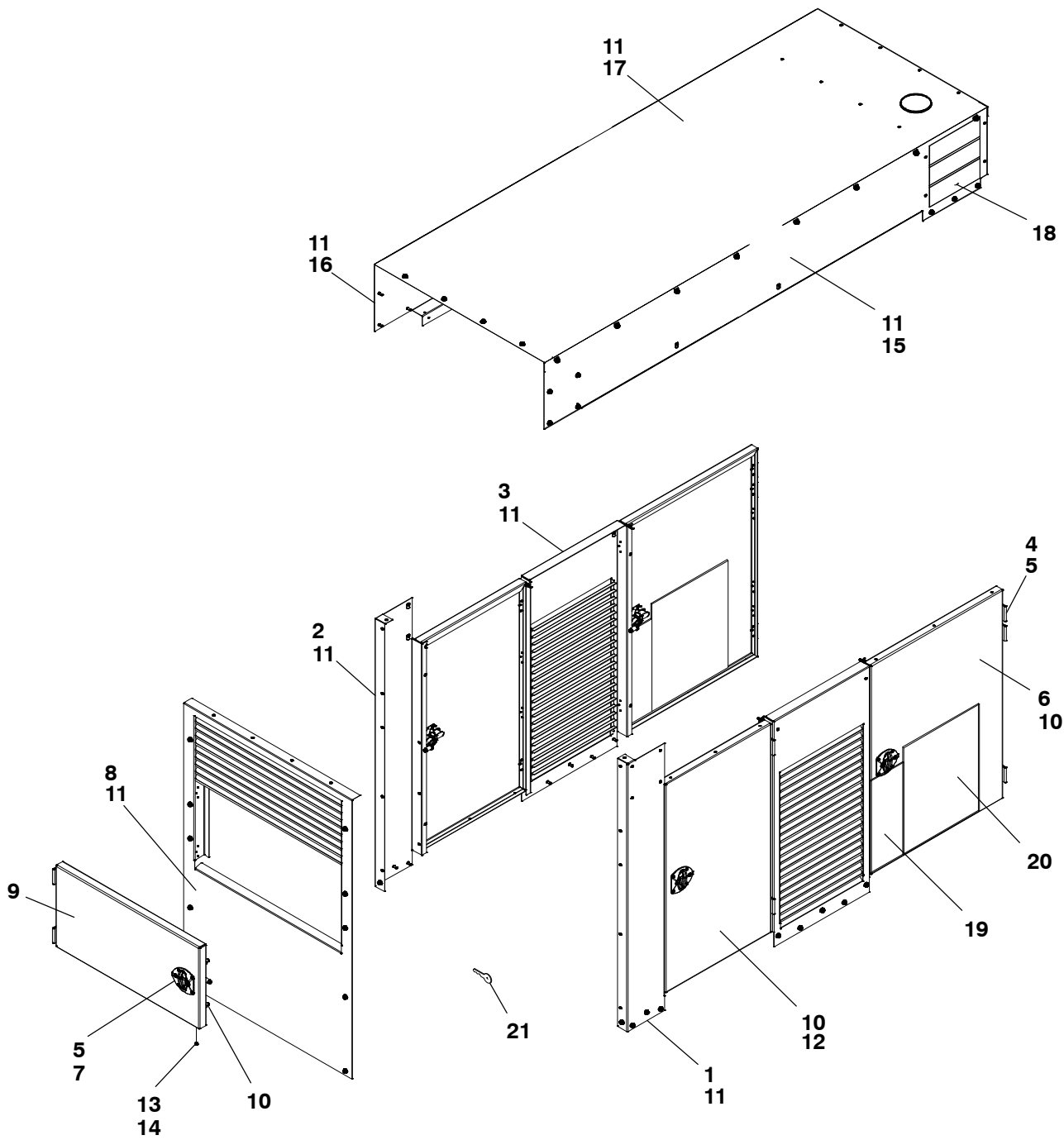
Weather Enclosure Spec A, B



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7778-02	1	Roof
2	405-7792-02	1	Door, Control
3	405-7880-02	2	Door, Enclosure
4	405-7927-02	1	Post, Enclosure (RH)
5	405-7928-02	1	Post, Enclosure (LH)
6	405-7942-02	2	Grill, Enclosure
7	405-7933-02	1	Grill, Enclosure
8	405-5902	2	Door, Enclosure
9	406-0831	12	Hinge, Housing
10	818-0231-02	100	Rivet, Pop
11	405-8030-02	1	Stiffener, Roof
12	406-0972-01	5	Latch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
13	895-0382	10	Bumper, Door
14	821-6007-02	56	Screw, Hex Head Sems Stainless
15	870-2065-03	4	Nut, Hex Flange
16	128-0154-02	2	Insulation, Foam
17	130-4848	3.7'	Insulation, Exhaust (4 x 11")
18	128-0154-05	1	Insulation, Foam
19	870-0439	1	Nut, Acorn Nylon (1/4-28)
20	815-0389	1	Screw, Hex Washer Head Tread Form (1/4-20 x 3/8")
21	406-0782	A/R	Key (Key Style CH 751)

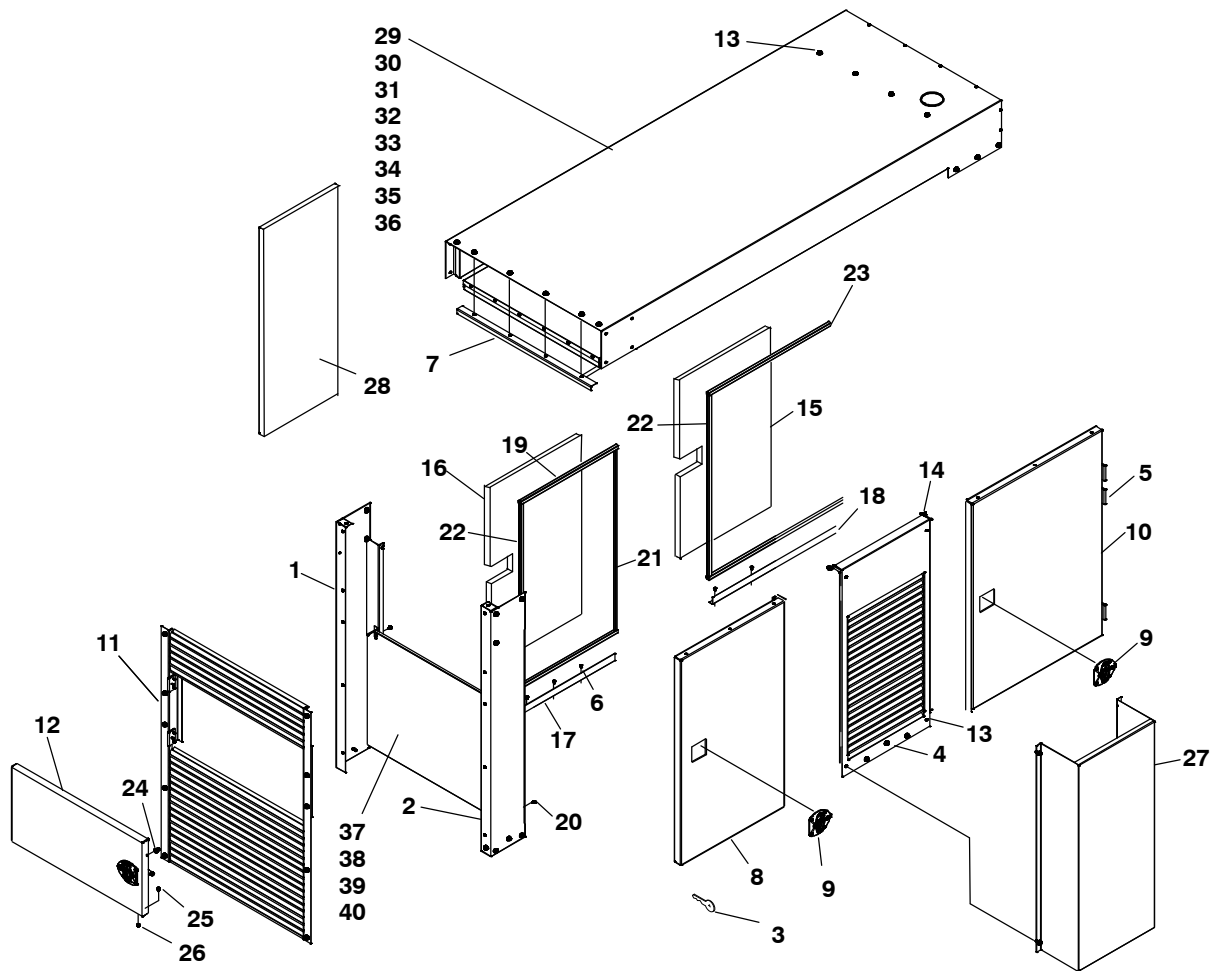
Enclosure
Weather
Begin Spec C



**Enclosure
Weather
Begin Spec C**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Post, Enclosure	12			Door, Enclosure
	405-7927-02	1	Steel Housing		405-7880-02	2	Steel Enclosure
	405-9587-03	1	Aluminum Housing		405-9586-02	2	Aluminum Housing
2			Post, Enclosure	13	815-0389	1	Screw, Hex Washer Head – Thread Forming (1/4-20 x .375)
	405-7928-02	1	Steel Housing				
	405-9588-03	1	Aluminum Housing				
3			Grill, Enclosure	14	870-0439	1	Nut, Acorn (1/4-28)
	405-7942-02	2	Steel Enclosure	15			Panel, Roof
	405-9591-03	2	Aluminum Housing		405-8419-02	1	Steel Enclosure
4	406-0831	12	Hinge, Housing		405-9594-03	1	Aluminum Housing
5	818-0231-02	92	Rivet, Pop	16			Panel, Roof
6			Door, Housing		405-8420-02	1	Steel Enclosure
	405-5902	2	Steel Housing		405-9595-03	1	Aluminum Housing
	405-9582-02	2	Aluminum Housing	17			Roof, Enclosure
7	406-0972-01	5	Latch		405-8447-02	1	Steel Enclosure
8			Grill, Enclosure		405-9598-02	1	Aluminum Housing
	405-8423-02	1	Steel Enclosure	18	130-4848	6	Insulation, Exhaust (6 x 12" Long)
	405-9596-03	1	Aluminum Housing				
9			Door, Control	19	128-0154-05	2	Insulation, Foam
	405-7792-02	1	Steel Enclosure	20	128-0154-02	2	Insulation, Foam
	405-9583-02	1	Aluminum Housing	21	406-0782	A/R	Key (Key Style CH 751)
10	895-0382	10	Bumper, Door				
11	821-6007-02	66	Screw, Hex Head (M8 x 1.25 x 20)				

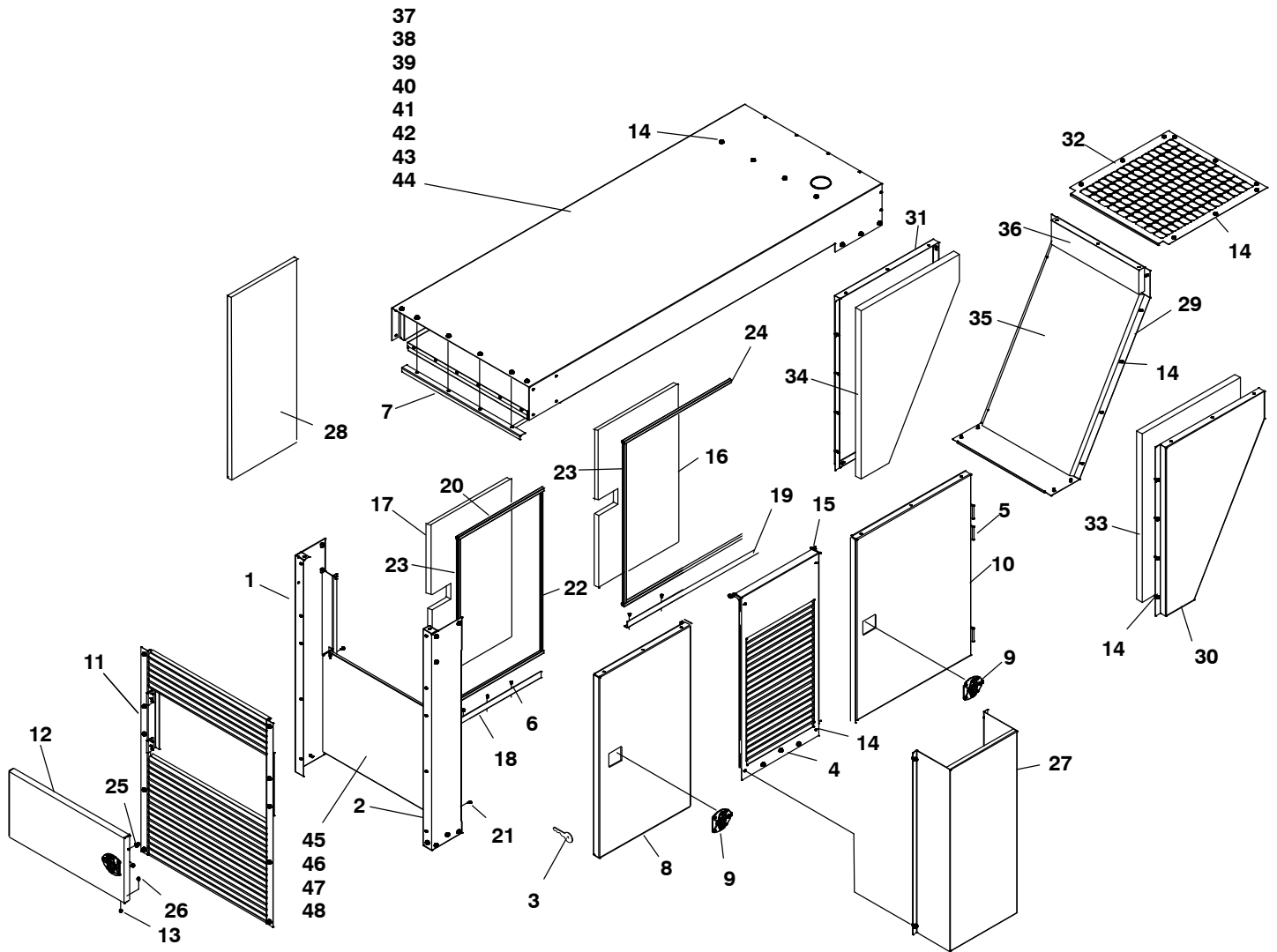
**Sound Enclosure
Stage 1
Spec A, B**



**Sound Enclosure
Stage 1
Spec A, B**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7928-02	1	Post, Enclosure (LH)	21	895-0386	4	Weather, Seal
2	405-7927-02	1	Post, Enclosure (RH)	22	895-0385	4	Weather, Seal
3	406-0782	A/R	Key (Key Style CH 751)	23	895-0384-01	4	Weather, Seal
4	405-7942-02	2	Grill, Enclosure	24	895-0382	2	Bumper, Door
5	406-0831	12	Hinge, Housing	25	870-0439	1	Nut, Acorn Nylon (1 1/4-28)
6	818-0231-02	116	Rivet, Pop	26	815-0389	1	Screw, Hex Head Thread form (1-1/4-20 x 3/8")
7	405-8030-02	1	Stiffener, Roof	27	405-8203-02	2	Baffle, Air
8	405-5902	2	Door, Enclosure	28	405-8202	2	Insulation, Air Baffle
9	406-0972-01	5	Latch	29	405-7778-02	1	Roof, Enclosure
10	405-7880-02	2	Door, Enclosure	30	405-7984	4	Retainer, Insulation
11	405-7933-02	1	Grill, Enclosure	31	319-5294	2	Panel
12	405-7792-02	1	Door, Control	32	405-7989-02	8	Insulation, Roof
13	821-6007-02	60	Screw, Hex Head Sems Stainless	33	405-7989-01	4	Insulation, Roof
14	870-2065-03	4	Nut, Hex Flange	34	818-0231-02	14	Rivet, Pop
15	405-7988	2	Insulation, Door	35	818-0231-01	32	Rivet, Pop
16	405-5734	2	Insulation, Door	36	130-4848	-	Insulation, Exhaust (4 x 12")
17	405-7982-03	2	Bracket, Door	37	405-8069-02	1	Panel, Duct
18	405-7982-04	2	Bracket, Door	38	405-7990-02	1	Insulation, Duct
19	895-0384	4	Weather, Seal	39	405-8070	1	Retainer, Insulation
20	815-0765	6	Screw, Truss Head (1-1/4-20 x 1/2")	40	818-0231-01	8	Rivet, Pop

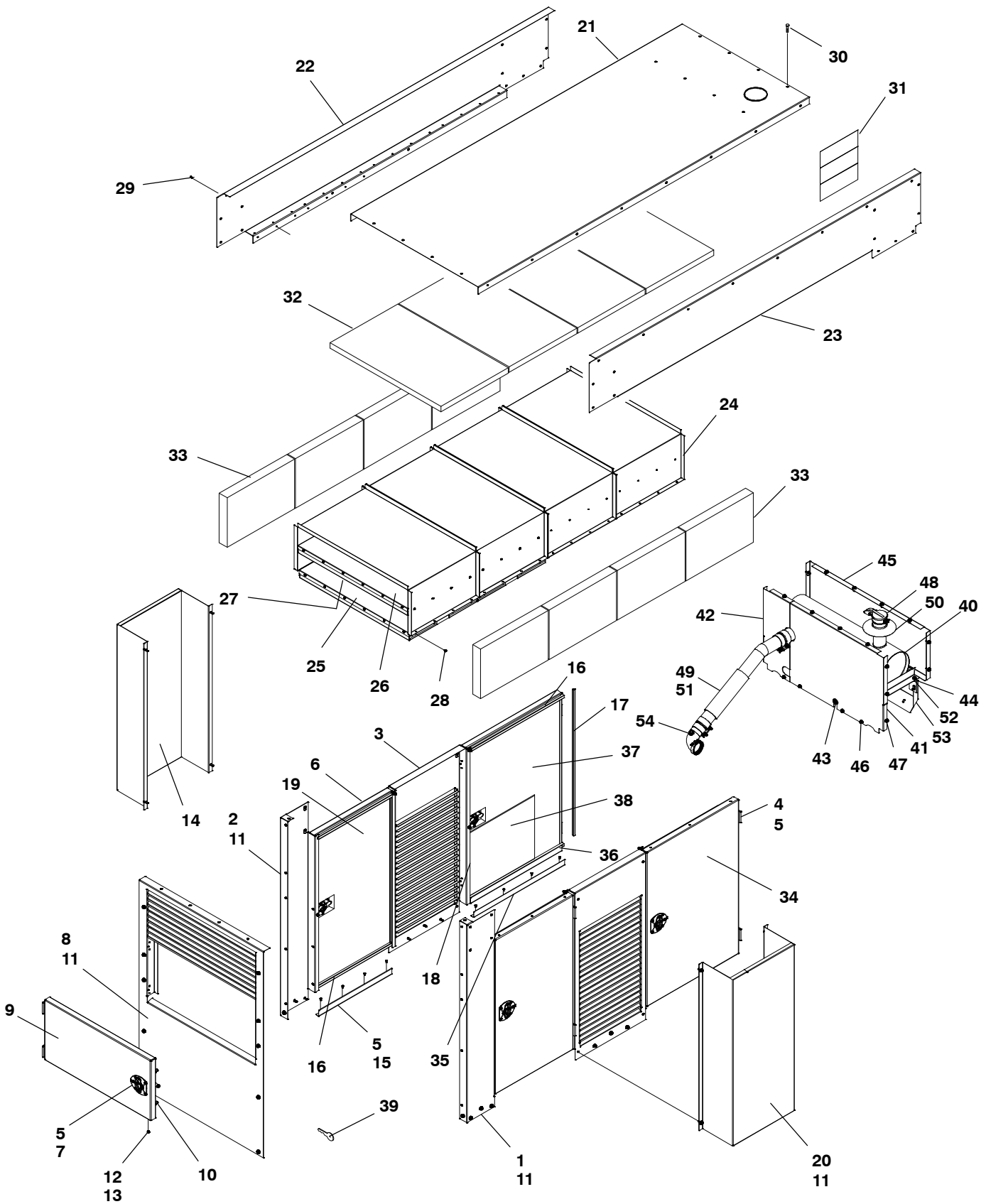
**Sound Enclosure
Stage 2
Spec A, B**



**Sound Enclosure
Stage 2
Spec A, B**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7928-02	1	Post, Enclosure (LH)	24	895-0384-01	4	Weather, Seal
2	405-7927-02	1	Post, Enclosure (RH)	25	895-0382	2	Bumper, Door
3	406-0782	A/R	Key (Key Style CH 751)	26	870-0439	1	Nut, Acorn Nylon (1-1/4-28)
4	405-7942-02	2	Grill, Enclosure	27	405-8203-02	2	Baffle, Air
5	406-0831	12	Hinge, Housing	28	405-8282	2	Insulation, Air Baffle
6	818-0231-02	116	Rivet, Pop	29	405-8243-02	1	Panel, Duct (Front)
7	405-8030-02	1	Stiffener, Roof	30	405-8241-02	1	Panel, Duct (Right)
8	405-5902	2	Door, Enclosure	31	405-8242-02	1	Panel, Duct (Left)
9	406-0972-01	5	Latch	32	405-8270-02	1	Panel, Duct (Top)
10	405-7880-02	2	Door, Enclosure	33	405-8271	1	Insulation, Duct (Right)
11	405-7933-02	1	Grill, Enclosure	34	405-8272	1	Insulation, Duct (Left)
12	405-7792-02	1	Door, Control	35	405-8273-01	1	Insulation, Duct (Front)
13	815-0389	1	Screw, Hex Head Thread Form (1/4-20 x 3/8")	36	405-8273-02	1	Insulation, Duct (Front)
14	821-6007-02	60	Screw, Hex Head Sems Stainless (M8 x 1.25 x 20mm)	37	405-7778-02	1	Roof, Enclosure
15	870-2065-03	4	Nut, Hex Flange	38	405-7984	4	Retainer, Insulation
16	405-7988	2	Insulation, Door	39	319-5294	2	Panel
17	405-5734	2	Insulation, Door	40	405-7989-02	8	Insulation, Roof
18	405-7982-03	2	Bracket, Door	41	405-7989-01	4	Insulation, Roof
19	405-7982-04	2	Bracket, Door	42	818-0231-02	14	Rivet, Pop
20	895-0384	4	Weather, Seal	43	818-0231-01	32	Rivet, Pop
21	815-0765	6	Screw, Truss Head (1-1/4-20 x 1/2")	44	130-4848	-	Insulation, Exhaust (4 x 12")
22	895-0386	4	Weather, Seal	45	405-8069-02	1	Panel, Duct
23	895-0385	4	Weather, Seal	46	405-7990-02	1	Insulation, Duct
				47	405-8070	1	Retainer, Insulation
				48	818-0231-01	8	Rivet, Pop

Sound Enclosure Stage 1 Begin Spec C

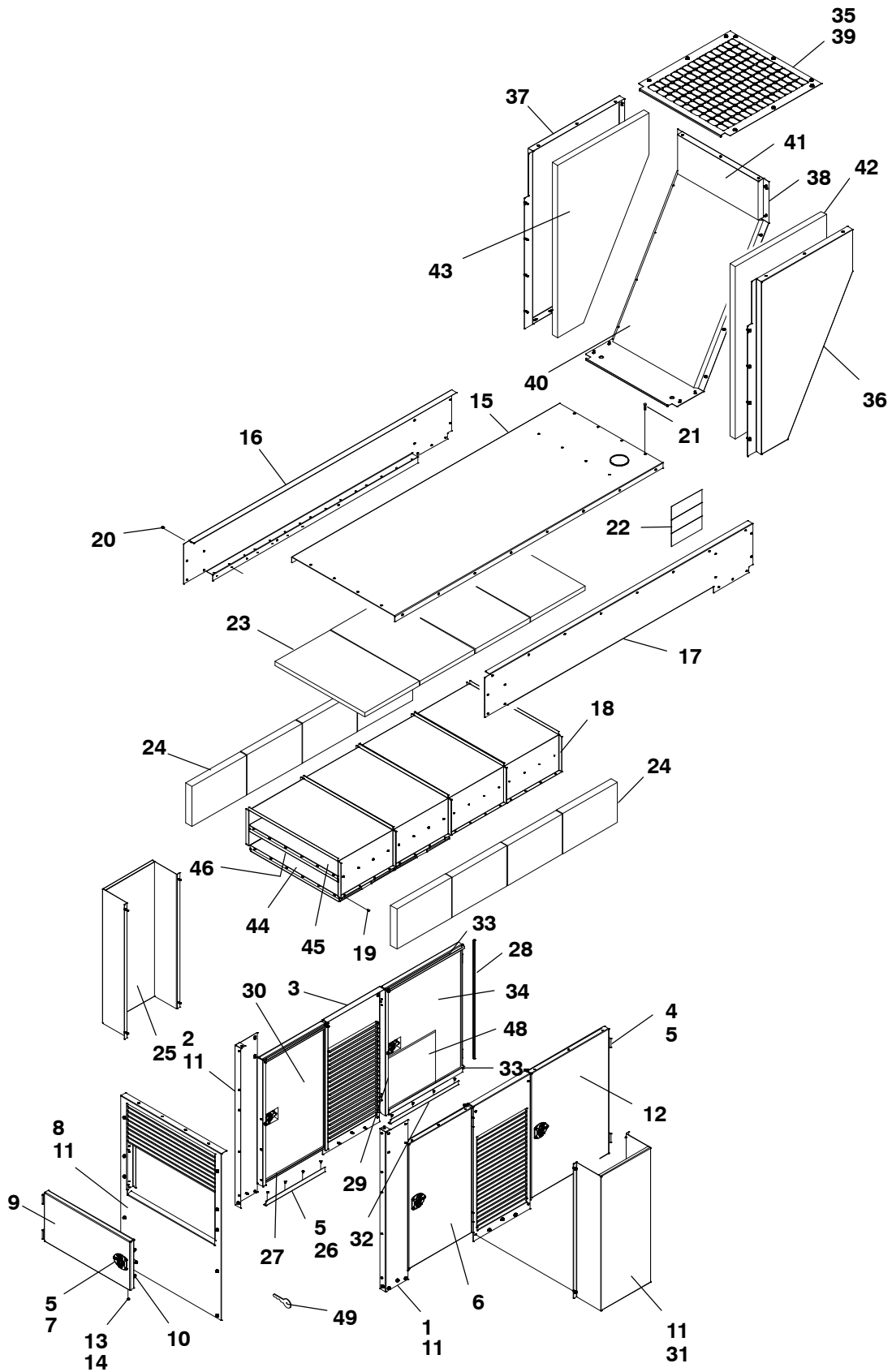


Sound Enclosure (F172)

Stage 1 Begin Spec C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7927-02	1	Post, Enclosure	28	818-0231-01	48	Rivet, Pop
2	405-7928-02	1	Post, Enclosure	29	818-0231-02	14	Rivet, Pop
3	405-7942-02	2	Grill, Enclosure	30	821-6007-02	16	Screw, Hex Head (M8 x 1.25 x 20)
4	406-0831	12	Hinge, Housing	31	130-4848	6	Insulation, Exhaust (6 x 12)
5	818-0231-02	108	Rivet, Pop	32	405-7989-04	4	Insulation, Roof
6	405-5902	2	Door, Housing	33	405-7989-03	8	Insulation, Roof
7	406-0972-01	5	Latch	34	405-7880-02	2	Door, Enclosure
8	405-8423-02	1	Grill, Enclosure	35	405-7982-04	2	Bracket, Door
9	405-7792-02	1	Door, Control	36	895-0384-01	4	Weather, Seal
10	895-0382	2	Bumper, Door	37	405-7988	2	Insulation, Door
11	821-6007-02	54	Screw, Hex Head (M8 x 1.25 x 20)	38	128-0154-02	2	Insulation, Foam (18 x 22)
12	815-0389	1	Screw, Hex Washer Head (1/4-20 x .375)	39	406-0782	A/R	Key (Key Style CH 751)
13	870-0439	1	Nut, Acorn (1/4-28)	40	155-4459	1	Silencer
14	405-8282	2	Insulation, Baffle	41	155-4306-02	1	Baffle, Exhaust
15	405-7982-03	2	Bracket, Door	42	155-4307-02	1	Baffle, Exhaust
16	895-0384	4	Weather, Seal	43	508-0144	1	Grommet, Rubber
17	895-0386	4	Weather, Seal	44	404-0279-02	1	Panel, Duct
18	895-0385	4	Weather, Seal	45	404-0278-02	1	Panel, End Cap
19	405-5734	2	Insulation, Door	46	821-6003-02	10	Screw, Hex Head
20	405-8203-02	2	Baffle, Air	47	821-6007-02	20	Screw, Hex Head
21	405-8447-02	1	Roof, Enclosure	48	155-2062-10	1	Cap, Rain
22	405-8420-02	1	Panel, Roof	49	155-4744-01	1	Pipe, Exhaust
23	405-8419-02	1	Panel, Roof	50	155-3102-03	1	Sheild, Rain
24	405-8618	4	Retainer, Insulation	51	898-1371-05	1	Sleeve, Fiberglass
25	405-7986	4	Panel, Duct	52	526-0045	8	Washer, Flat
26	405-7987	4	Panel, Duct	53	404-0280-02	1	Baffle, Air
27	405-7990-01	4	Insulation, Duct	54	193-0499	1	Sensor, Oxygen

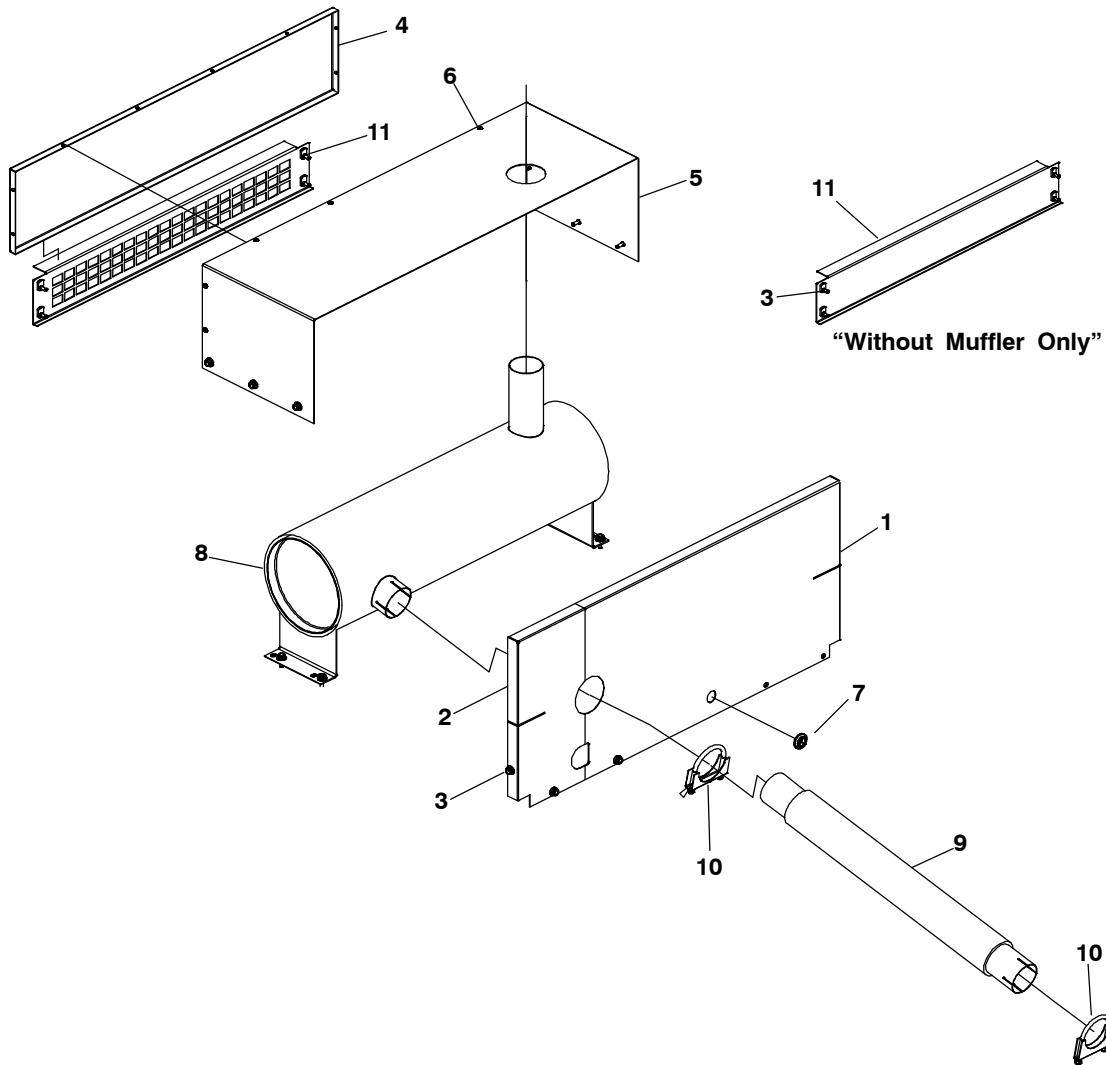
Sound Enclosure Stage 2 Begin Spec C



**Sound Enclosure
Stage 2
Begin Spec C**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Post, Enclosure	21	821-6007-02	16	Screw, Hex Head (M8 x 1.25 x 20)
	405-7927-02	1	Steel Housing				
	405-9587-03	1	Aluminum Housing	22	130-4848	6	Insulation, Exhaust (6 x 12)
2			Post, Enclosure	23	405-7989-04	4	Insulation, Roof
	405-7928-02	1	Steel Housing	24	405-7989-03	8	Insulation, Roof
	405-9588-03	1	Aluminum Housing	25	405-8282	2	Insulation, Baffle
3			Grill, Enclosure	26	405-7982-03	2	Bracket, Door
	405-7942-02	2	Steel Housing	27	895-0384	4	Weather, Seal
	405-9591-03	2	Aluminum Housing	28	895-0386	4	Weather, Seal
4	406-0831	12	Hinge, Housing	29	895-0385	4	Weather, Seal
5	818-0231-02	108	Rivet, Pop	30	405-5734	2	Insulation, Door
6			Door, Housing	31			Baffle, Air
	405-5902	2	Steel Housing		405-8203-02	2	Steel Housing
	405-9582-02	2	Aluminum Housing		405-9592-02	2	Aluminum Housing
7	406-0972-01	5	Latch	32	405-7982-04	2	Bracket, Door
8			Grill, Enclosure	33	895-0384-01	4	Weather, Seal
	405-8423-02	1	Steel Housing	34	405-7988	2	Insulation, Door
	405-9596-03	1	Aluminum Housing	35			Panel, Duct
9			Door, Control		405-8270-02	1	Steel Housing
	405-7792-02	1	Steel Housing		405-9593-02	1	Aluminum Housing
	405-9583-02	1	Aluminum Housing	36			Panel, Duct
10	895-0382	2	Bumper, Door		405-8546-02	1	Steel Housing
11	821-6007-02	54	Screw, Hex Head (M8 x 1.25 x 20)		405-9600-03	1	Aluminum Housing
12			Door, Enclosure	37			Panel, Duct
	405-7880-02	2	Steel Housing		405-8547-02	1	Steel Housing
	405-9586-02	2	Aluminum Housing		405-9601-03	1	Aluminum Housing
13	815-0389	1	Screw, Hex Washer Head (1/4-20 x .375)	38			Panel, Duct
14	870-0439	1	Nut, Acorn (1/4-28)		405-8548-02	1	Steel Housing
15			Roof, Enclosure		405-9602-03	1	Aluminum Housing
	405-8447-02	1	Steel Housing	39	821-6007-02	33	Screw, Hex Head (M8 x 1.25 x 20)
	405-9598-02	1	Aluminum Housing	40	405-8273-01	1	Insulation, Duct
16			Panel, Roof	41	405-8273-03	1	Insulation, Duct
	405-8420-02	1	Steel Housing	42	405-8718	1	Insulation, Duct - RH
	405-9595-03	1	Aluminum Housing	43	405-8719	1	Insulation, Duct - LH
17			Panel, Roof	44	405-7986	4	Panel, Duct
	405-8419-02	1	Steel Housing	45	405-7987	4	Panel, Duct
	405-9594-03	1	Aluminum Housing	46	405-7990-01	4	Insulation, Duct
18	405-8618	4	Retainer, Insulation	47	818-0231-01	12	Rivet, Pop
19	818-0231-01	48	Rivet, Pop	48	128-0154-02	2	Insulation, Foam (18 x 22)
20	818-0231-02	14	Rivet, Pop	49	406-0782	A/R	Key (Key Style CH 751)

Exhaust System (Unhoused) **Spec A, B**

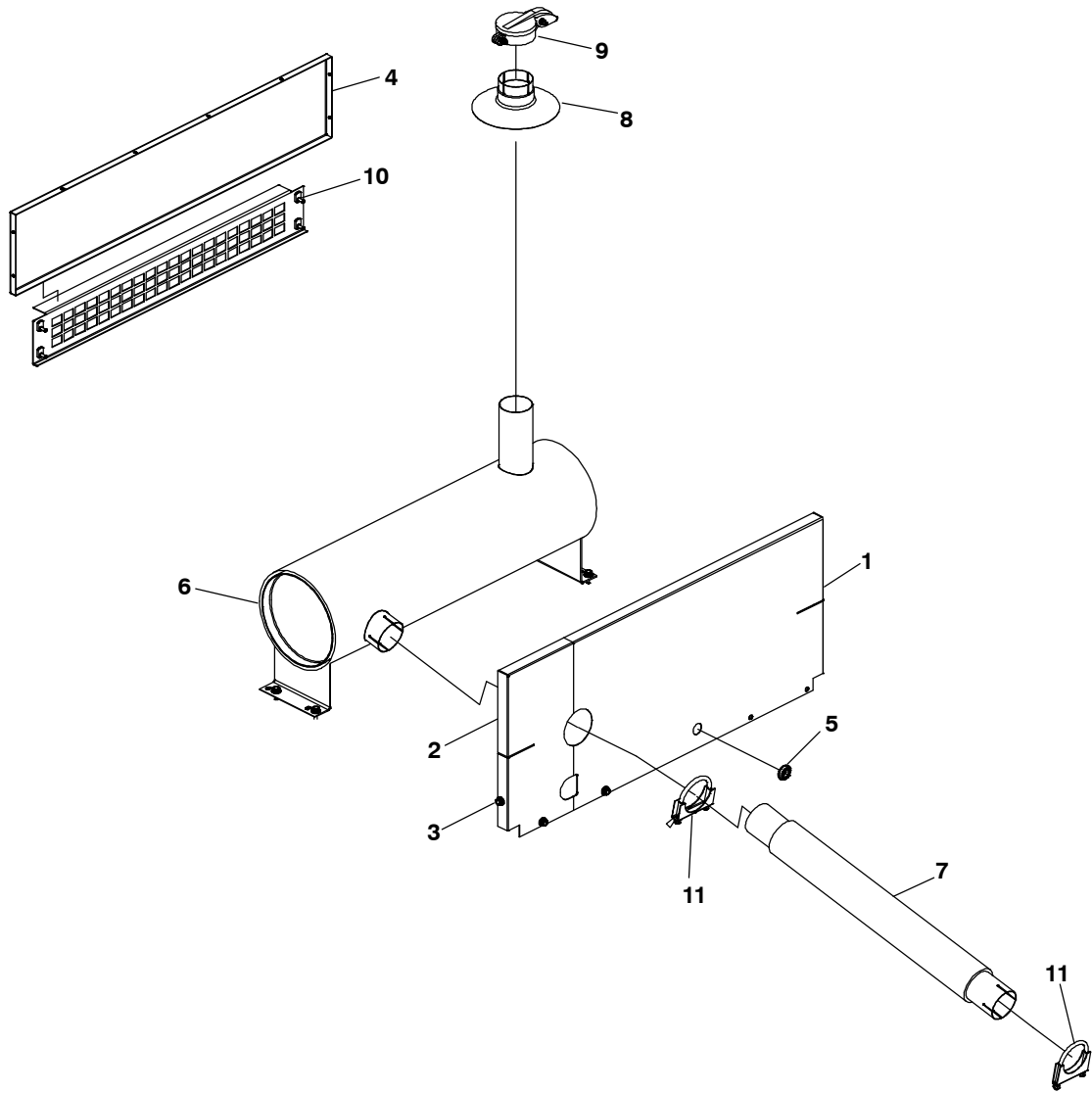


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Baffle, Exhaust (Muffler)
	155-4168-02	1	GGLA
	155-4275-02	1	GGLB
2		1	Baffle, Exhaust (Muffler)
	155-4169-02	1	GGLA
	155-4276-02	1	GGLB
3			Screw, Hex Head Sems
			GGLA (M8 x 1.25 x 16)
	821-6003-02	18	With Muffler
	821-6003-02	4	* Without Muffler
			GGLB
	821-6007-02	16	With Muffler
	821-6007-02	4	* Without Muffler
4	405-7916-02	1	Panel, End Cap (Muffler)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	155-4170-02	1	Cover, Exhaust (with Muffler)
6	818-0231-01	8	Rivet, Pop (with Muffler)
7	508-0144	1	Grommet (with Muffler)
8	155-4140	1	Muffler
9	155-4141-02	1	Pipe, Exhaust (with Muffler)
10	155-3289	2	Clamp, Exhaust (3")
11		1	Panel, Duct
	405-7806-03	1	With Muffler
	405-7806-04	1	* Without Muffler

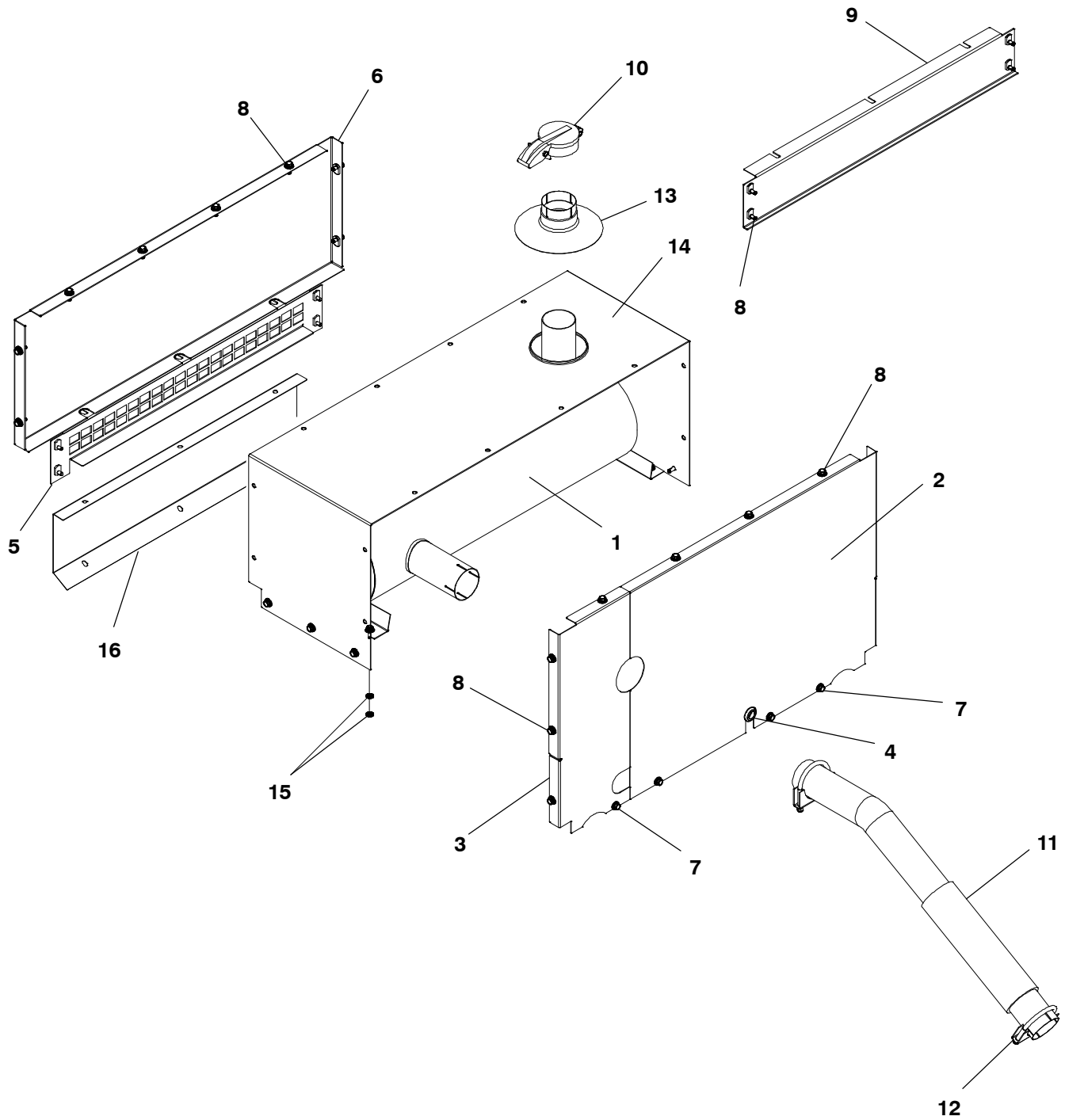
* Parts Included in Unhoused without Muffler.

Exhaust System (Housed) Spec A, B



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4168-02	1	GGLA	4	405-7916-02	1	Panel, End Cap
	155-4275-02	1	GGLB	5	508-0144	1	Grommet
2	155-4169-02	1	GGLA	6	155-4140	1	Muffler
	155-4276-02	1	GGLB	7	155-4141-02	1	Pipe, Exhaust
3	821-6003-02	8	GGLA (M8 x1.25x 20mm)	8	155-3102-03	1	Shield, Rain
	821-6007-02	6	GGLB Stainless	9	155-2062-10	1	Cap, Rain
				10	405-7806-03	1	Panel, Duct
				11	155-3289	2	Clamp, Muffler (3" Dia)

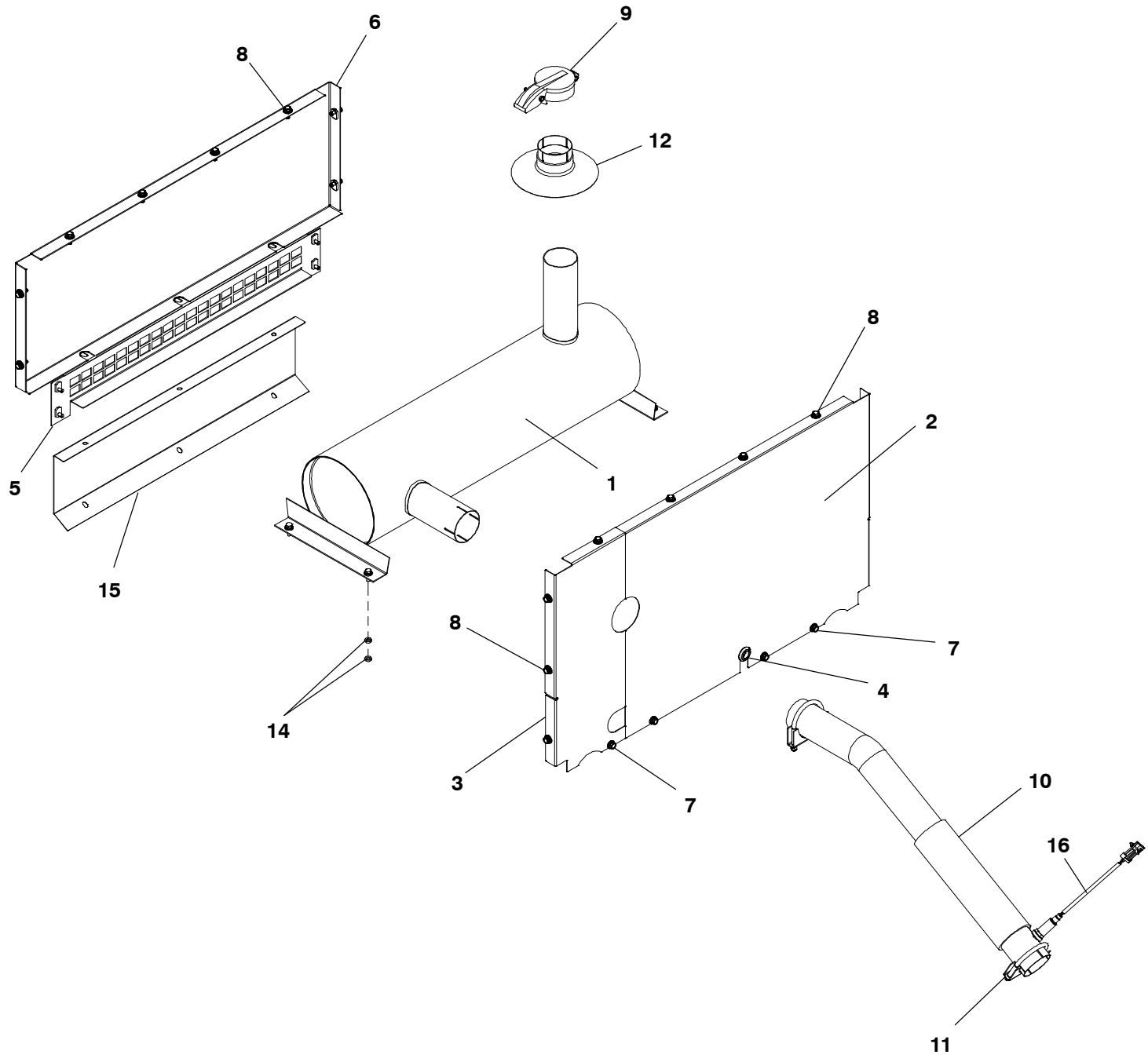
Exhaust System Spec C-D



Exhaust System Spec C-D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4459	1	Muffler	9	405-7806-04	1	Panel, Duct – Unhoused Sets Without Muffler
2	155-4306-02	1	Baffle, Exhaust	10	155-2062-10	1	Cap, Rain – Housed Sets
3	155-4307-02	1	Baffle, Exhaust	11	155-4461	1	Pipe, Exhaust – Flexible
4	508-0144	1	Grommet	12	155-3289	2	Clamp, Muffler
5			Panel, Duct – Top	13	155-3102-03	1	Shield, Rain – Housed Sets
	405-9177-02	1	Housed With Steel Enclosure, Unhoused With Muffler	14	155-4387-02	1	Cover, Exhaust – Unhoused Sets
6			Panel, End Cap	15	526-0045	8	Washer, Flat
	405-8471-02	1	Housed With Steel Enclosure, Unhoused With Muffler	16			Baffle, Air
	405-9599-03	1	Housed With Aluminum Enclosure		405-9178-02	1	Housed With Steel Enclosure, Unhoused With Muffler
7	821-6003-02	8	Screw, Hex Head (M8 x 1.25 x 20)		405-9604-02	1	Housed With Aluminum Enclosure
8			Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)	17	898-1371-05	–	Sleeving, Fiberglass – Bulk (Order by the Foot – 2 Feet Required) (Not Shown)
	821-6007-02	22	Housed Sets With Muffler				
	821-6007-02	28	Unhoused Sets With Muffler				
	821-6007-02	4	Unhoused Sets Without Muffler				

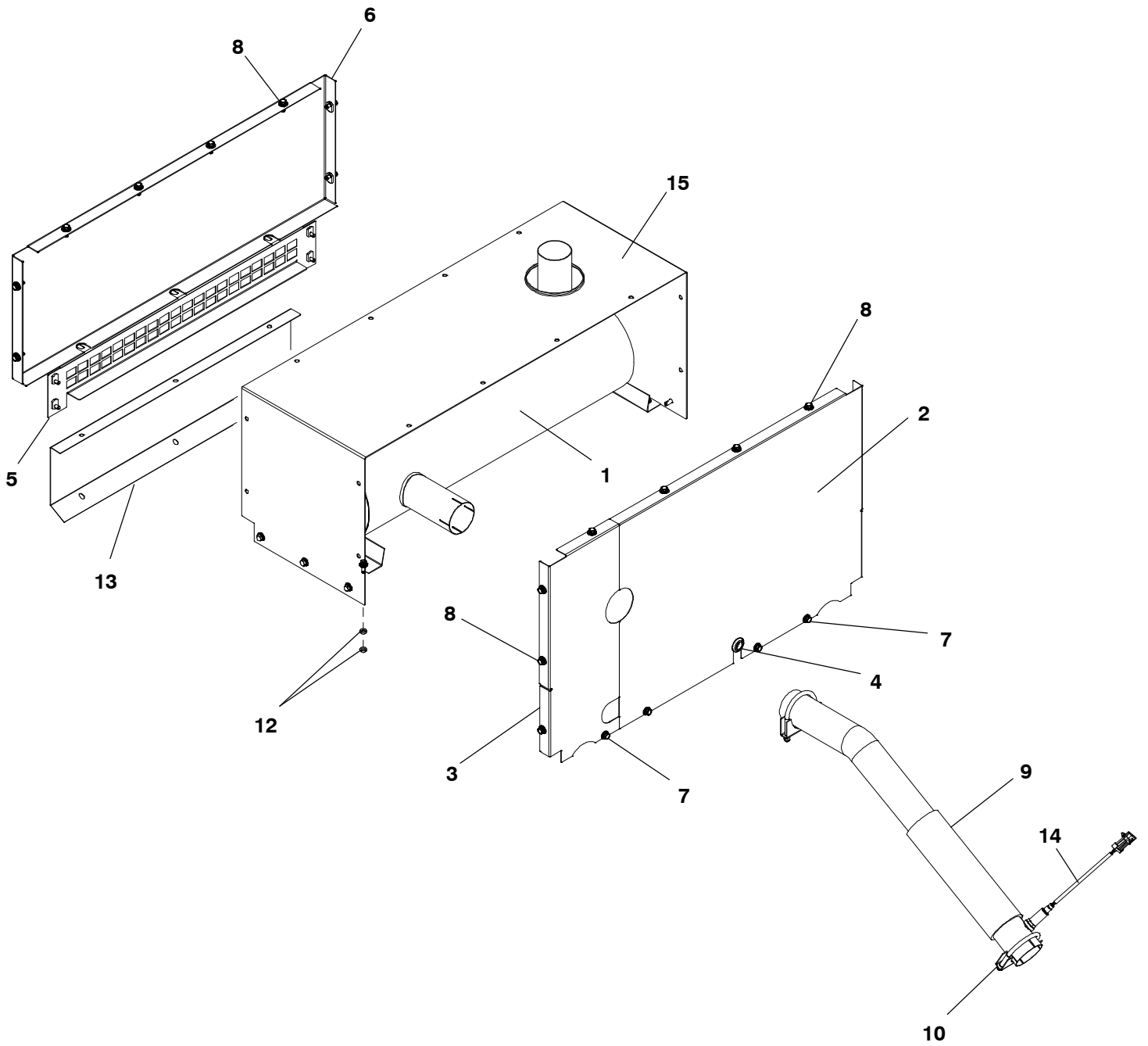
**Exhaust System (Housed)
Begin Spec E**



Exhaust System (Housed) Begin Spec E

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4459	1	Muffler	9	155-2062-10	1	Cap, Rain
2	155-4306-02	1	Baffle, Exhaust	10	155-4744-01	1	Pipe, Exhaust – Flexible
3	155-4307-02	1	Baffle, Exhaust	11	155-3289	2	Clamp, Muffler
4	508-0144	1	Grommet	12	155-3102-03	1	Shield, Rain – Housed Sets
5			Panel, Duct – Top	13	898-1371-05	–	Sleeving, Fiberglass – Bulk (Order by the Foot – 2 Feet Required) (Not Shown)
	405-9177-02	1	Steel Housing				
	405-9603-03	1	Aluminum Housing				
6			Panel, End Cap	14	526-0045	8	Washer, Flat
	405-8471-02	1	Steel Housing	15			Baffle, Air
	405-9599-03	1	Aluminum Housing		405-9178-02	1	Steel Housing
7	821-6003-02	8	Screw, Hex Head (M8 x 1.25 x 20)		405-9604-02	1	Aluminum Housing
8	821-6007-02	22	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)	16	193-0499	1	Sensor, Oxygen

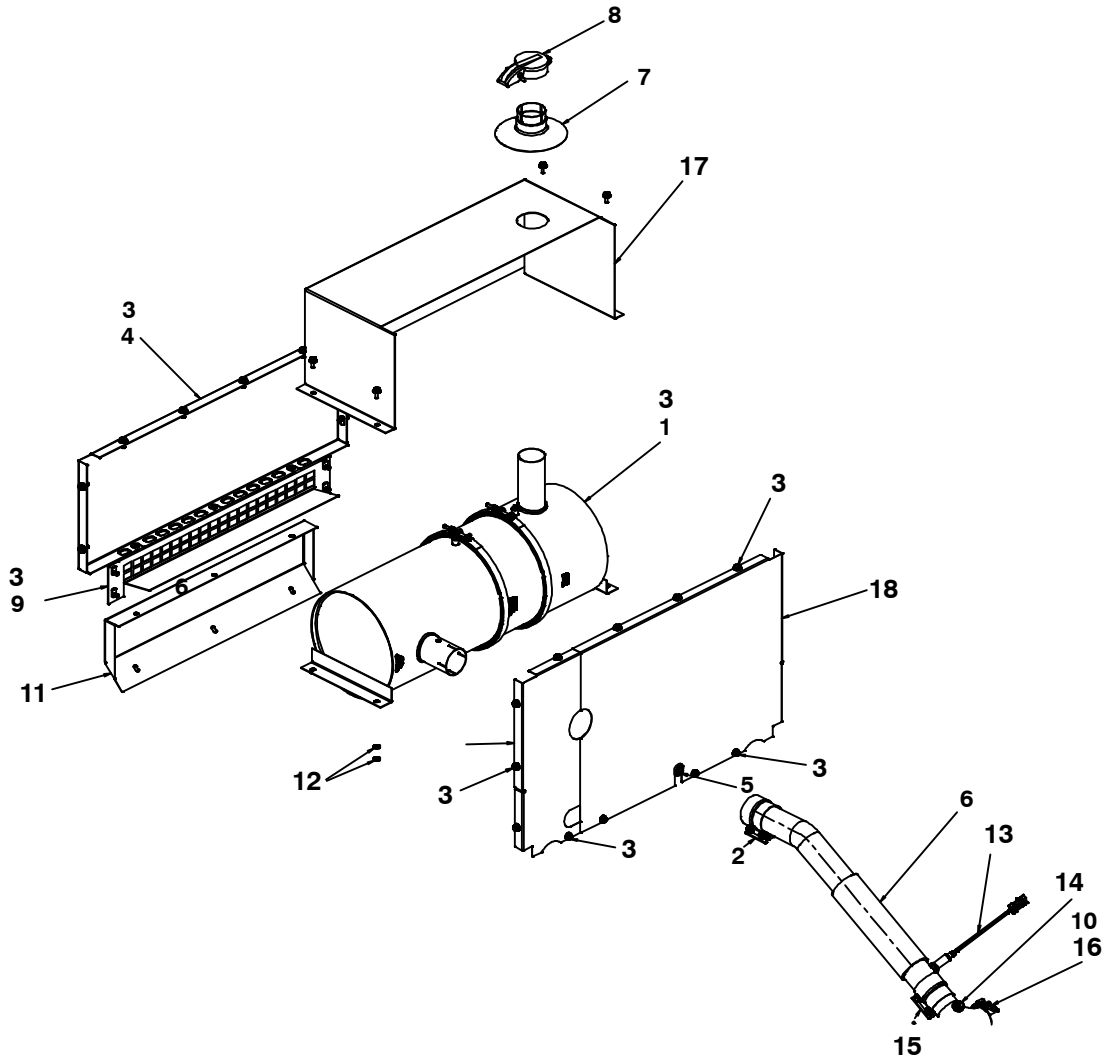
Exhaust System (Unhoused)
Begin Spec E



**Exhaust System (Unhoused)
Begin Spec E**

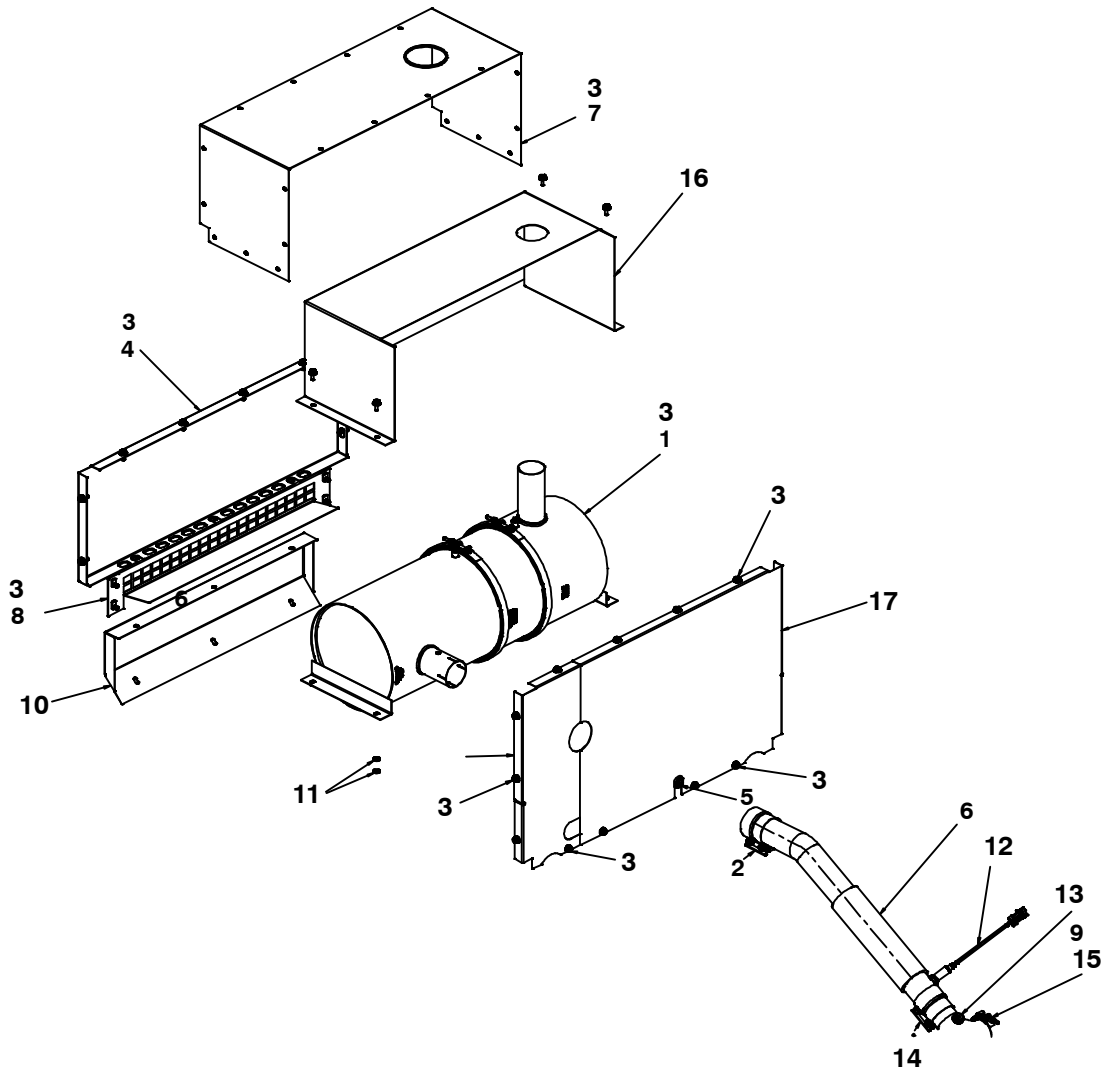
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4459	1	Muffler	9	155-4744-01	1	Pipe, Exhaust – Flexible
2	155-4306-02	1	Baffle, Exhaust	10	155-3289	2	Clamp, Muffler
3	155-4307-02	1	Baffle, Exhaust	11	898-1371-05	–	Sleeving, Fiberglass – Bulk (Order by the Foot – 2 Feet Required) (Not Shown)
4	508-0144	1	Grommet				
5	405-9177-02	1	Panel, Duct – Top	12	526-0045	8	Washer, Flat
6	405-8471-02	1	Panel, End Cap	13	405-9178-02	1	Baffle, Air
7	821-6003-02	8	Screw, Hex Head (M8 x 1.25 x 20)	14	193-0499	1	Sensor, Oxygen
8	821-6007-02	28	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)	15	155-4387-02	1	Cover, Exhaust

Exhaust System (UnHoused) Spec J



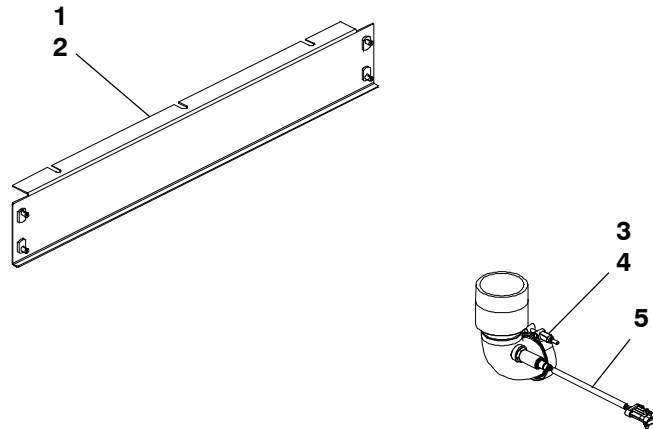
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A026E804	1	Muffler	8	155-2062-10	1	Cap, Rain
2	155-4262-02	1	Clamp, Exhaust	9	404-0279-02	1	Panel, Duct
3			Screw, Hex Head Sems	10	155-2565	1	Clamp, Muffler (3" Dia)
	821-6003-02	10	GGLA (M8 x1.25x 20mm)	11	404-0280-02	1	Baffle, Air
	821-6007-02	20	GGLB Stainless	12	526-0045	8	Washer, Flat
4	404-0278-02	1	Panel, End Cap	13	193-0499	1	Sensor, Oxygen
5	508-0144	1	Grommet	14	505-2476	1	Plug, Hole
6			Pipe, Exhaust	15	155-4762-03	1	Clamp, Exhaust
	A032Y032	1	(steel)	16	155-3112-02	1	Pipe, Exhaust
	A032Y034	1	(stainless)	17	A029M590	1	Panel, Insulation
7	155-3102-03	1	Shield, Rain	18	155-4306-02	1	Baffle, Exhaust

Exhaust System (Housed) Spec J



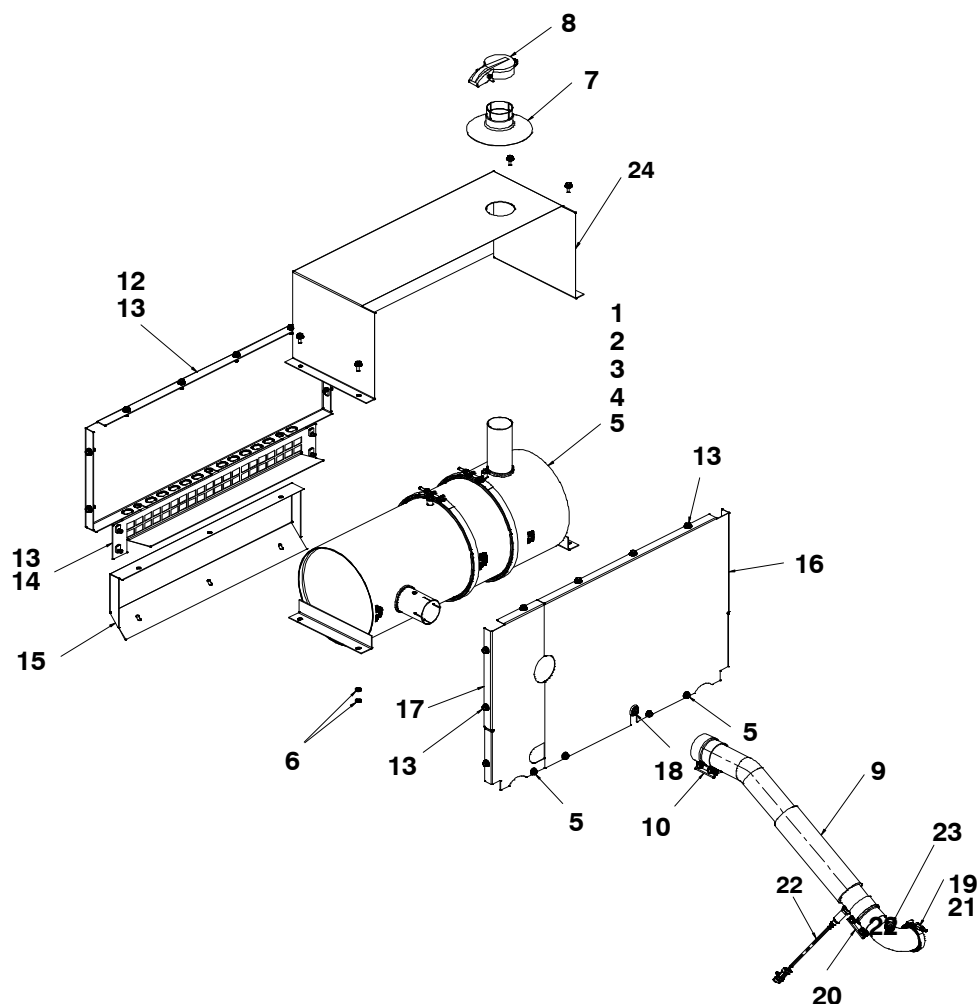
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A026E804	1	Muffler	8	404-0279-02	1	Panel, Duct
2	155-4262-02	1	Clamp, Exhaust	9	155-2565	1	Clamp, Muffler (3" Dia)
3			Screw, Hex Head Sems	10	404-0280-02	1	Baffle, Air
	821-6003-02	10	GGLA (M8 x1.25x 20mm)	11	526-0045	8	Washer, Flat
	821-6007-02	26	GGLB Stainless	12	193-0499	1	Sensor, Oxygen
4	404-0278-02	1	Panel, End Cap	13	505-2476	1	Plug, Hole
5	508-0144	1	Grommet	14	155-4762-03	1	Clamp, Exhaust
6		1	Pipe, Exhaust	15	155-3112-02	1	Pipe, Exhaust
	A032Y032	1	(steel)	16	A029M590	1	Panel, Insulation
	A032Y034	1	(stainless)	17	155-4306-02	1	Baffle, Exhaust
7	155-4387-02	1	Cover, Exhaust				

Exhaust System Without Muffler Begin Spec E



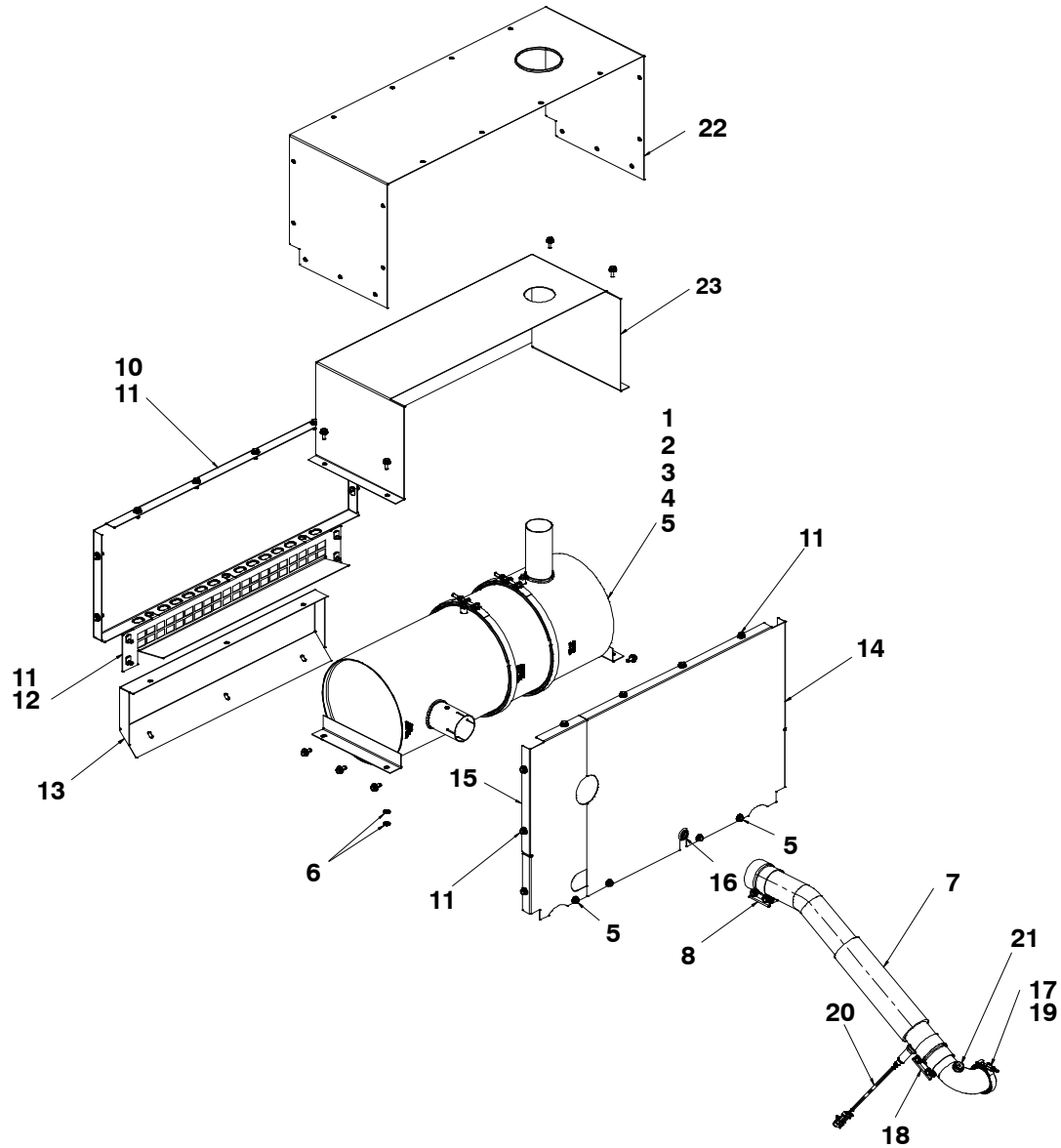
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-6007-02	4	Screw, Hex Head (M8 x 1.25 x 20)	3	155-3116-01	1	Adapter, Exhaust
2	405-7806-04	1	Panel, Duct	4	155-2565	1	Clamp, V-Band
				5	193-0499	1	Sensor, Oxygen

Exhaust System With Catalyst (Housed) Begin Spec F



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A026F055		Muffler	14			Panel, Duct – Top
2	A026D979	1	Converter, Catalytic	404-0279-02	1		Steel Housing
3	155-4774	2	Gasket, Muffler	404-0363-03	1		Aluminum Housing
4	155-4775	2	Gasket, Exhaust	15			Baffle, Air
5	821-6003-02	10	Screw, Hex Head (M8 x 1.25 x 20)	404-0280-02	1		Steel Housing
6	526-0045	8	Washer, Flat	404-0364-02	1		Aluminum Housing
7	155-3102-03	1	Shield, Rain	16	155-4306-02	1	Baffle, Exhaust
8	155-2062-10	1	Cap, Rain	17	155-4307-02	1	Baffle, Exhaust
9	155-4744-02	1	Pipe, Exhaust – Flexible	18	508-0144	1	Grommet
10	155-4762-02	1	Clamp, Exhaust	19	155-3112-02	1	Pipe, Exhaust
11	898-1371-05	–	Sleeving, Fiberglass – Bulk (Order by the Foot – 2 Feet Required) (Not Shown)	20	155-4762-03	1	Clamp, Exhaust
12			Panel, End Cap	21	155-2565	1	Clamp, V-Band
	404-0278-02	1	Steel Housing	22	193-0499	1	Sensor, Oxygen
	404-0362-03	1	Aluminum Housing	23	505-2476	1	Plug, Threaded (M18 x 1.5)
13	821-6007-02	20	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)	24	A029M590	1	Panel, Insulation

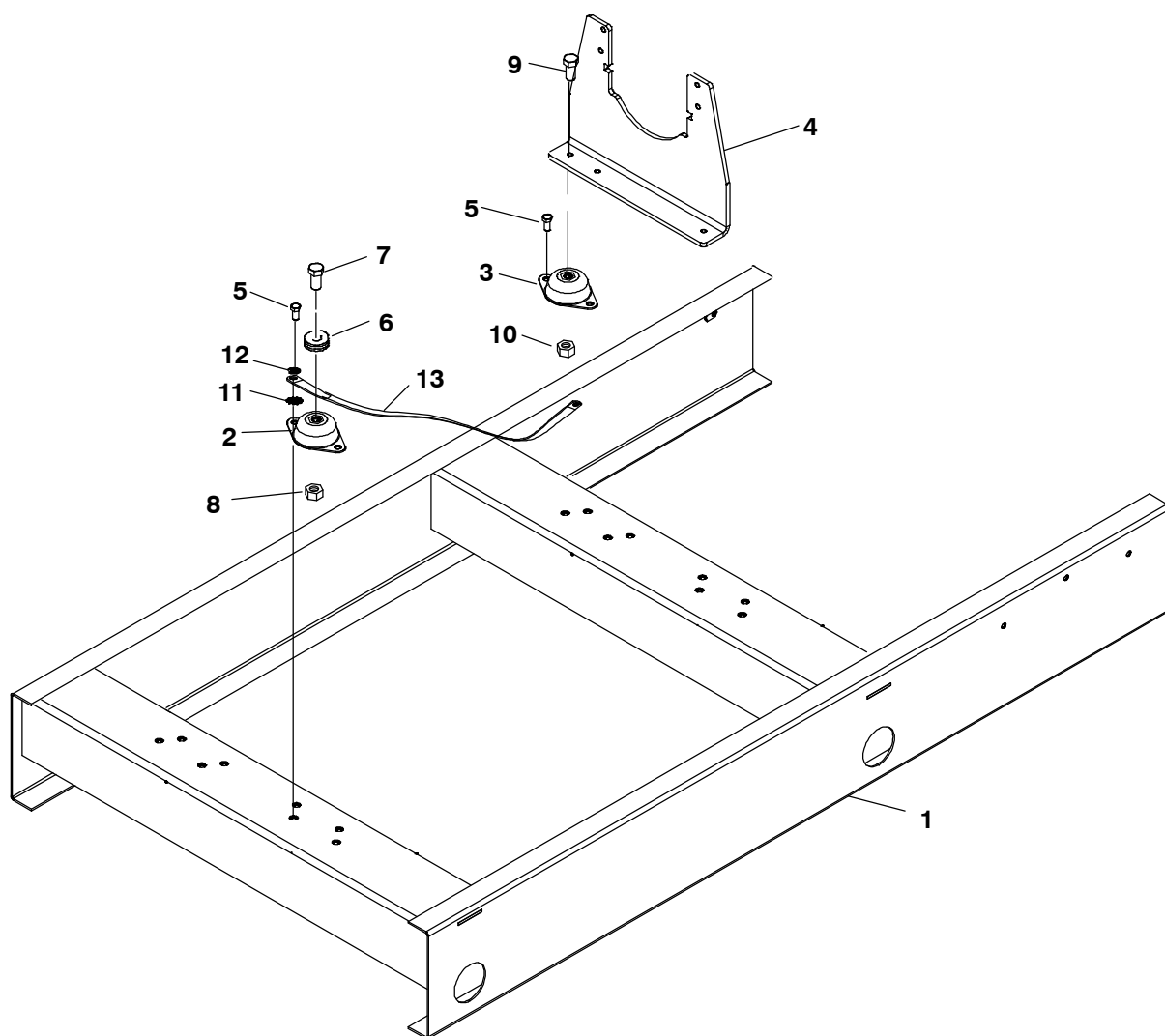
Exhaust System With Catalyst (Unhoused) **Begin Spec F**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A026F055	1	Muffler	12	404-0279-02	1	Panel, Duct – Top
2	A026D979	1	Converter, Catalytic	13	404-0280-02	1	Baffle, Air
3	155-4774	2	Gasket, Muffler	14	155-4306-02	1	Baffle, Exhaust
4	155-4775	2	Gasket, Exhaust	15	155-4307-02	1	Baffle, Exhaust
5	821-6003-02	10	Screw, Hex Head (M8 x 1.25 x 20)	16	508-0144	1	Grommet
6	526-0045	8	Washer, Flat	17	155-3112-02	1	Pipe, Exhaust
7	155-4744-02	1	Pipe, Exhaust – Flexible	18	155-4762-03	1	Clamp, Exhaust
8	155-4762-02	1	Clamp, Exhaust	19	155-2565	1	Clamp, V-Band
9	898-1371-05	-	Sleeving, Fiberglass – Bulk (Order by the Foot – 2 Feet Required) (Not Shown)	20	193-0499	1	Sensor, Oxygen
10	404-0278-02		Panel, End Cap	21	505-2476	1	Plug, Threaded (M18 x 1.5)
11	821-6007-02	26	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)	22	155-4387-02	1	Cover, Exhaust
				23	A029M590	1	Panel, Insulation

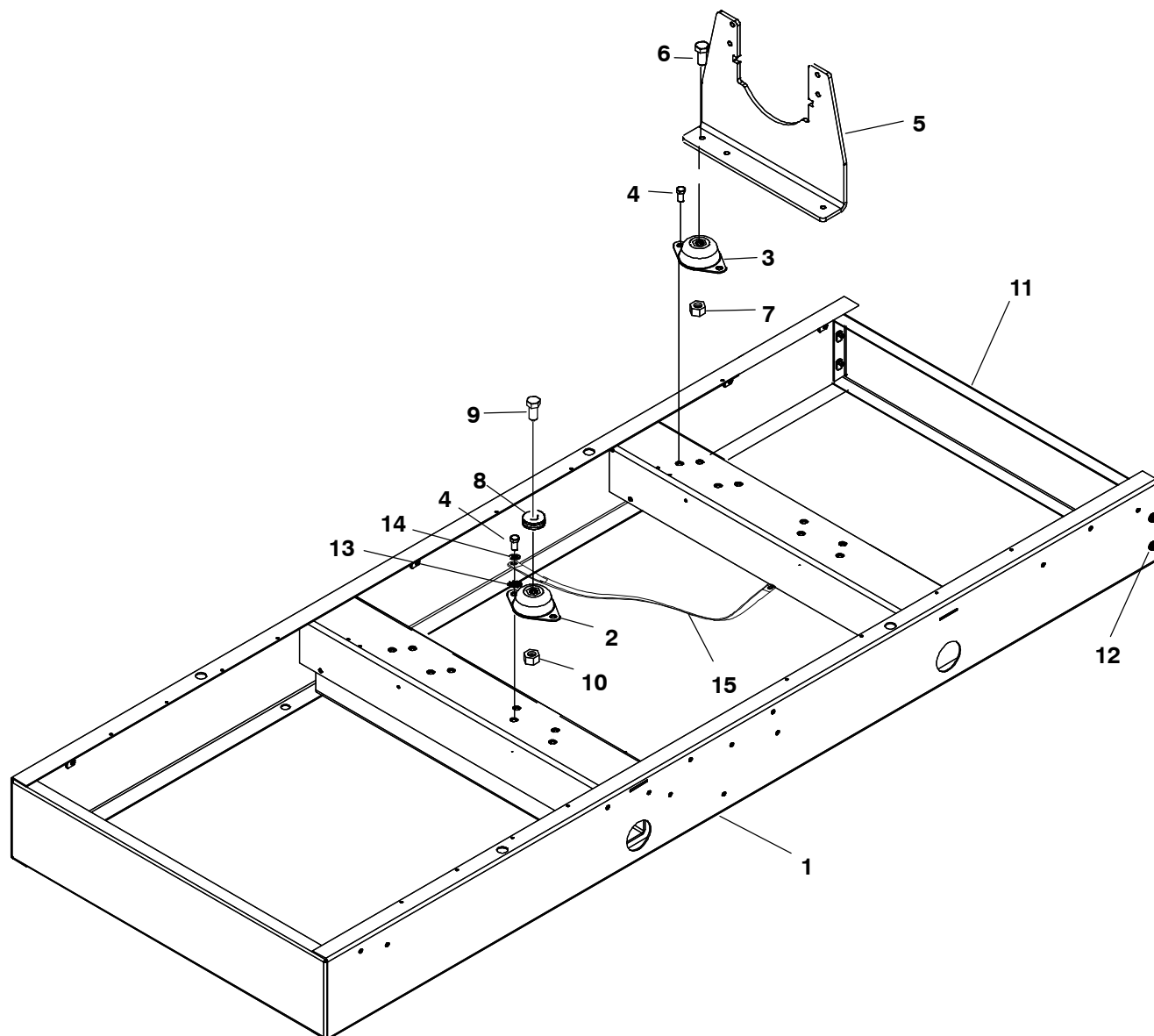
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Skid (Basic)



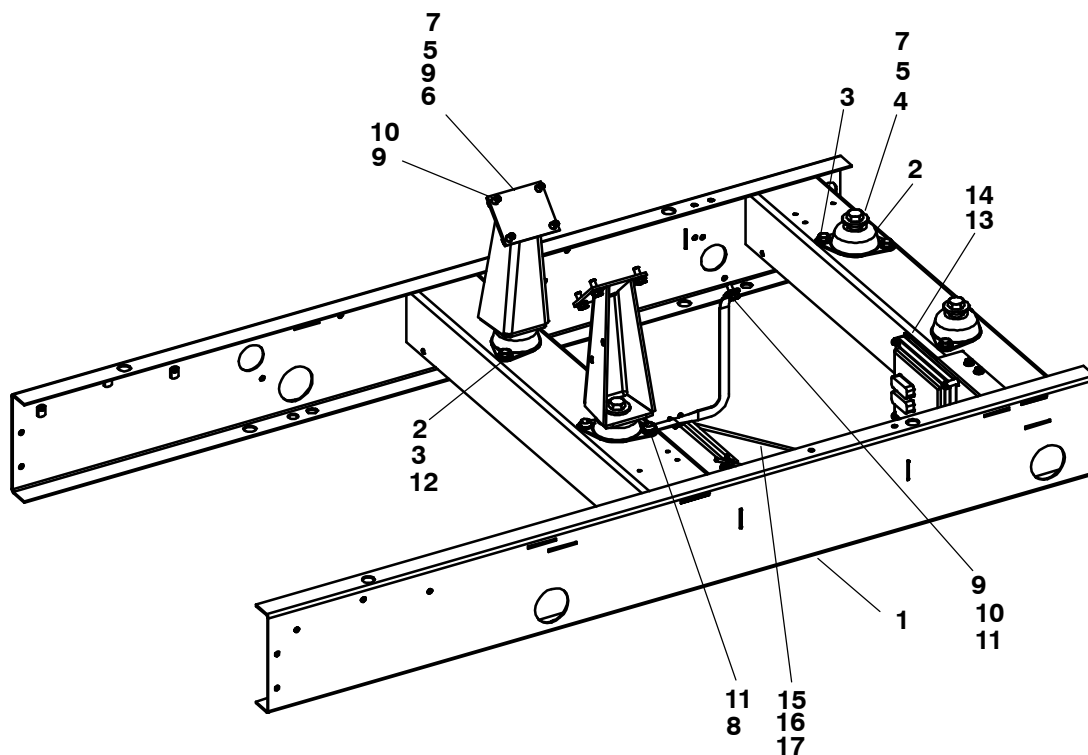
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-5512-02	1	Skid	8	862-0044	2	Nut Hex Heavy (3/4-10UNC)
2	402-0779-05	2	Isolator, Vibration	9	800-0133	2	Screw, Hex Head (5/8-11UNC x 1.75)
3	402-0779-01	2	Isolator, Vibration	10	870-0547	2	Nut, Hex
4	403-5253-02	1	Mount, Engine (Front)	11	856-0013	1	Washer, EIT Lock (1/2")
5	800-2543-02	8	Screw, Hex Head Cap (M12)	12	526-0433	1	Washer, Hardened (M12)
6	526-0238-01	2	Washer, Flat	13	337-0090	1	Strap, Electrical
7	800-0607	2	Screw, Hex Head Cap (3/4-10 UNC x 2")				

Skid (Housing Ready)



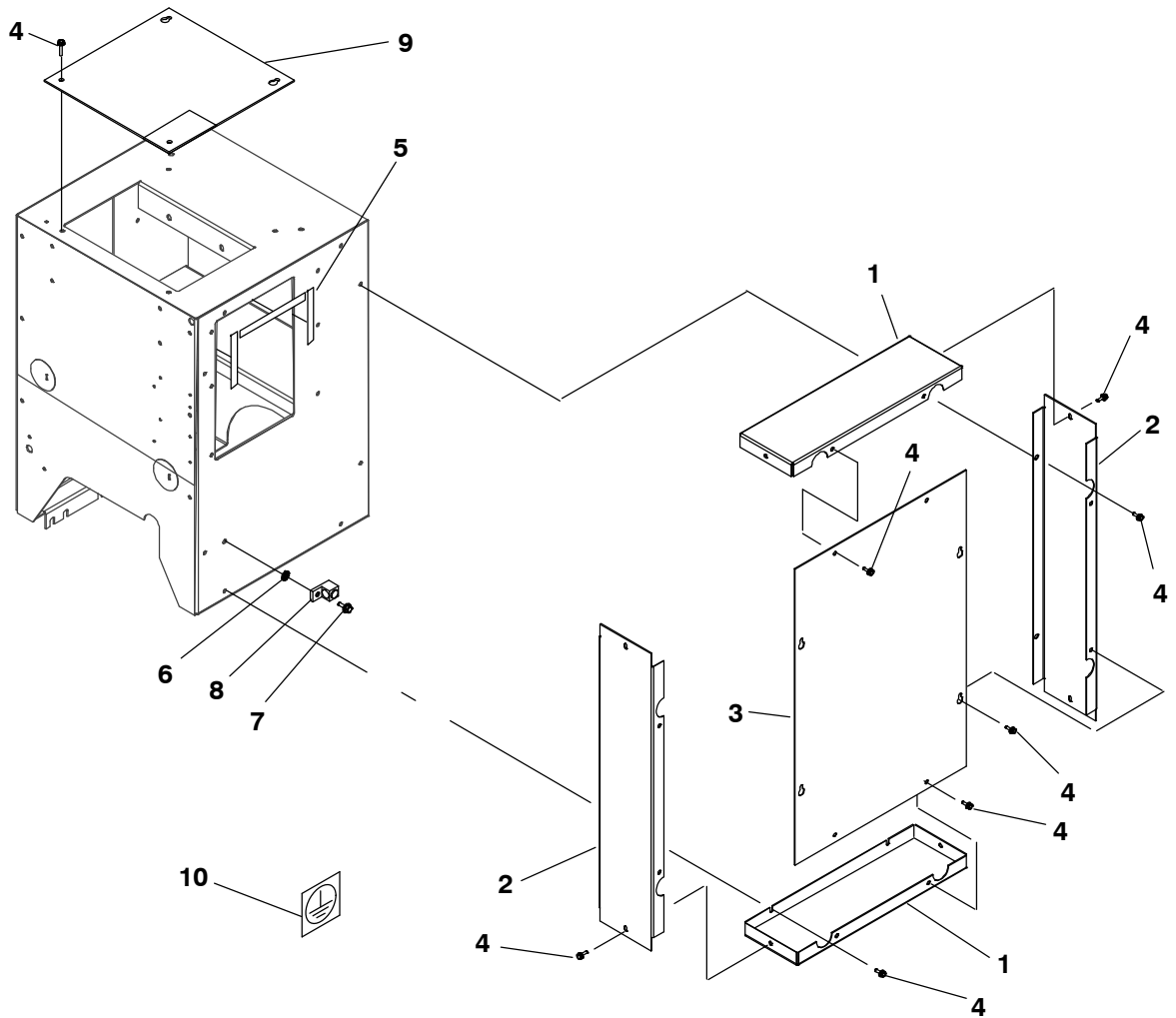
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-5477-02	1	Skid	10	862-0044	2	Nut Hex Heavy (3/4-10 UNC)
2	402-0779-05	2	Isolator, Vibration	11	403-5230-02	1	Cap, Skid End
3	402-0779-01	2	Isolator, Vibration	12	821-6007-02	4	Screw, Hex Sems Stainless (M8 x 1.25 x 20mm)
4	800-2543-02	8	Screw, Hex Head Cap (M12)	13	856-0013	1	Washer, EIT Locking (1/2")
5	403-5253-02	1	Mounting, Engine (Front)	14	526-0433	1	Washer, Hardened (M12)
6	800-0133	2	Screw, Hex Head Cap (5/8-11 UNC x 1.75")	15	337-0090	1	Strap, Electrical
7	870-0547	2	Nut, Hex				
8	526-0238-01	2	Washer, Flat				
9	800-0607	2	Screw, Hex Head Cap (3/4-10 UNC x 2)				

Skid - IBC



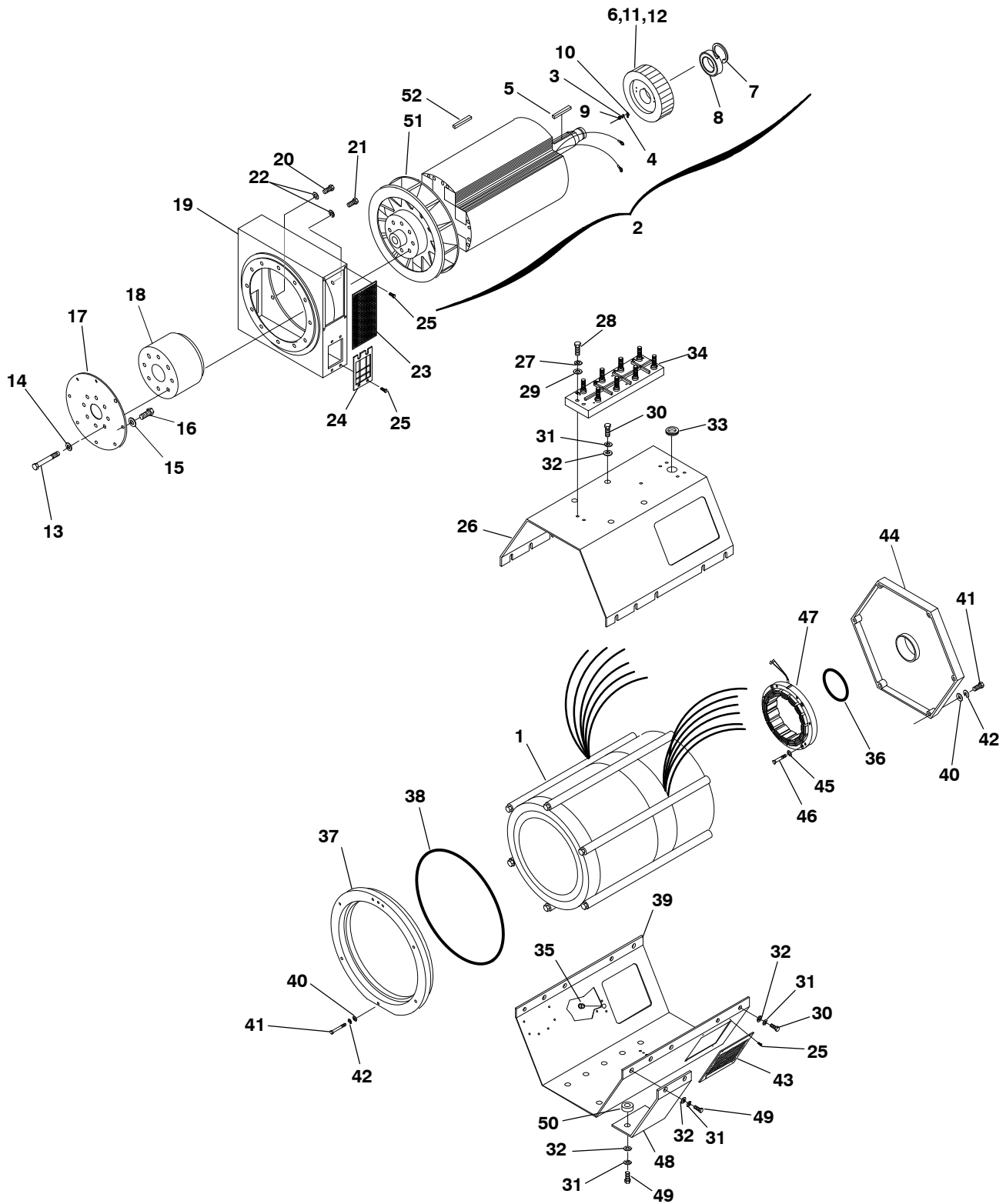
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-5513-02	1	Skid	9	526-0174	9	Washer, Flat
2	402-0779-01	4	Isolator, Vibration	10	800-2530-03	9	Screw, HHC (M10 x 1.5 x 25)
3	800-2543-02	8	Screw, Hex Head Cap (M12)	11	856-0010	1	Washer, Lock (3/8)
4	526-0238-01	2	Washer, Flat	12	A026H354	8	Washer, Wedge Lock (M12 x 25.4)
5	800-0607	4	Screw, Hex Head Cap (3/4-10 UNC x 2")	13	166-0890-02	1	Module, Ignition
6	403-4425-02	2	Bracket, Engine Mount	14	100-3826	1	Relay
7	862-0044	4	Nut Hex Heavy (3/4-10UNC)	15	416-0993-02	2	Rod, Battery Hold Down
8	337-0090	1	Strap, Electrical	16	416-1103-02	1	Hold, Down Battery
				17	865-0030	2	Nut, Wing

Entrance Box



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	6	856-0008	1	Washer, Lock – EIT (5/16")
2	319-2978	2	Panel, Box – Side	7	821-6003-02	1	Screw, Self-Locking – Hex Washer Head (M8 x 1.25 x 20mm)
3	319-2979-02	1	Cover, Entrance Box	8	332-1473	1	Lug, Solderless
4	821-6002-03	24	Screw, Self-Locking – Hex Washer Head (M6 x 1 x 16mm)	9	319-2996	1	Cover, Control Housing
5	508-0239	-	Edging – Bulk (Order By The Foot – 2 Feet Required)	10	098-6537	1	Label, Ground

Generator

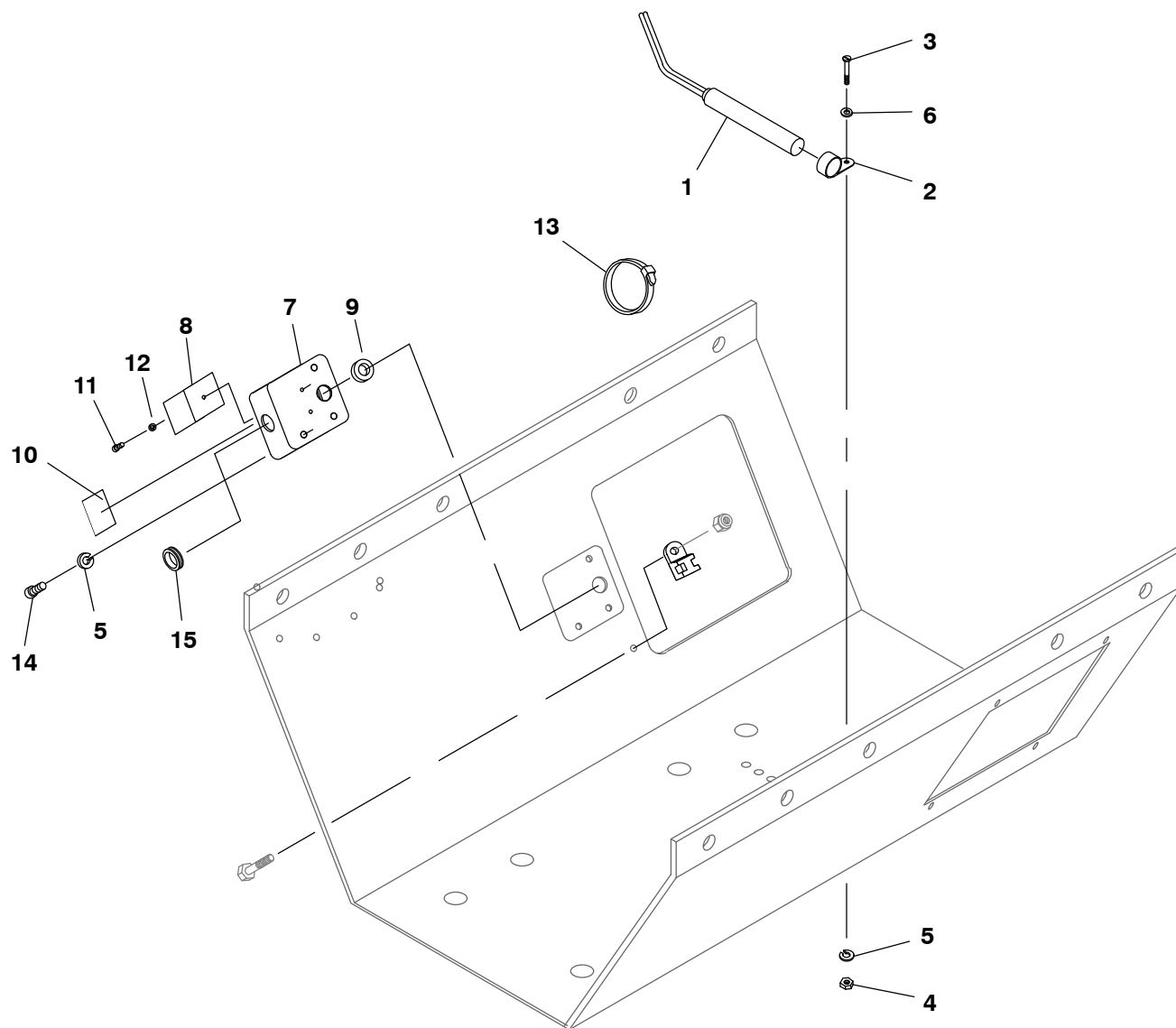


Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	200-3032-46	1	Generator – Assembly	20	800-2090	6	Screw, Cap – Hex Head (M10 x 45)
	200-3032-47	1	Generator – Assembly				
	200-3032-51	1	Generator – Assembly	21	800-2088	4	Screw, Cap – Hex Head (M10 x 35)
	200-3032-52	1	Generator – Assembly				
	200-3032-53	1	Generator – Assembly	22	850-2010	10	Washer, Lock (M10)
	200-3032-54	1	Generator – Assembly	23	234-0867	2	Guard, Fan
	200-3032-57	1	Generator – Assembly	24	234-0984	2	Cover, Adapter
	200-3032-58	1	Generator – Assembly	25	821-6001-02	24	Screw, SEMS (M5 x 12)
	200-3032-59	1	Generator – Assembly	26			Cover, Stator – Top
	200-3032-69	1	Generator – Assembly		234-0937-02	1	230 Stack Length
	200-3032-70	1	Generator – Assembly		234-0937-03	1	335 Stack Length
1			Stator		234-0937-04	1	375 Stack Length
	220-4448-10	1	285mm Stack Length	27	850-2008	3	Washer, Lock (M8)
	220-4448-11	1	335mm Stack Length	28	718-1039	3	Screw, Cap – Hex Head (M8 x 1.25 x .35)
	220-4448-15	1	230mm Stack Length				
	220-4448-16	1	285mm Stack Length	29	526-2100	3	Washer, Flat (M8)
	220-4448-18	1	375mm Stack Length	30	800-3017-54	10	Screw, Cap – Hex Head (M12 x 30)
	220-4448-21	1	230mm Stack Length				
	220-4448-22	1	285mm Stack Length	31	850-0114-56	10	Washer, Lock (M12)
	220-4448-23	1	335mm Stack Length	32	526-0399-64	18	Washer, Flat (M12)
	220-4448-33	1	230mm Stack Length	33	508-1057	1	Grommet
	220-4448-34	1	285mm Stack Length	34	232-3421	1	Block, Terminal
			GGLB Only	35	517-0135	1	Plug, Hole
	220-4448-17	1	335mm Stack Length	36	509-0266-02	1	O-Ring
2			Assy, Rotor (Includes Parts Marked *)	37	231-0319	1	Adapter, Stator
	201-3497-03	1	230mm Stack Length	38	508-0139	A/R	Seal Edging – Bulk (786mm req.)
	201-3497-04	1	285mm Stack Length	39			Cover, Stator – Bottom
	201-3497-05	1	335mm Stack Length		232-3820-02	1	230 Stack Length
	201-3497-06	1	375mm Stack Length		232-3820-03	1	335 Stack Length
3	850-2005	2	*Washer, Lock (M5)		232-3820-04	1	375 Stack Length
4	526-2060	2	*Washer, Flat (M5)	40	526-0077	12	Washer (M10)
5	515-0298-03	1	*Key, Exciter	41	800-3017-38	12	Screw, Cap – Hex Head (M10 x 30)
6	201-3434-03	1	*Rotor, Wound – Exciter				
7	518-0083	1	*Ring, Split – External	42	850-0114-55	12	Washer, Lock (M10)
8	510-0164	1	*Bearing, Ball	43	234-0879	2	Screen, Air Inlet
9	860-2006	2	*Nut, Hex (M5 x .8)	44	211-0423	1	Bell, End
10	304-0807	1	*Varistor	45	850-2006	4	Washer, Lock (M6)
11	357-0092	1	*Rectifier – Reverse	46	800-2046	4	Screw, Cap – Hex Head (M6)
12	357-0091	1	*Rectifier – Forward	47	220-4293-06	1	Stator, Wound – Exciter
13	720-1119	8	Screw, Cap – Hex Head (M16 x 40)	48	232-3925	2	Bracket, Mounting – Generator
			Washer, Flat	49	800-3017-56	8	Screw, Cap – Hex Head (M12)
14	526-0259	8	Washer, Flat (3/8)	50	232-3730-04	4	Spacer, Mounting Foot
15	526-0174	8	Bolt, Place (3/8-16 x .75)	51	205-0288	1	Fan, Generator
16	805-0015	8	Disc, Drive – Generator	52	515-0297-02	1	*Key
17	232-3699	3	Hub, Drive – Generator				
18	232-3695	1	Adapter, Generator				
19	231-0325	1					

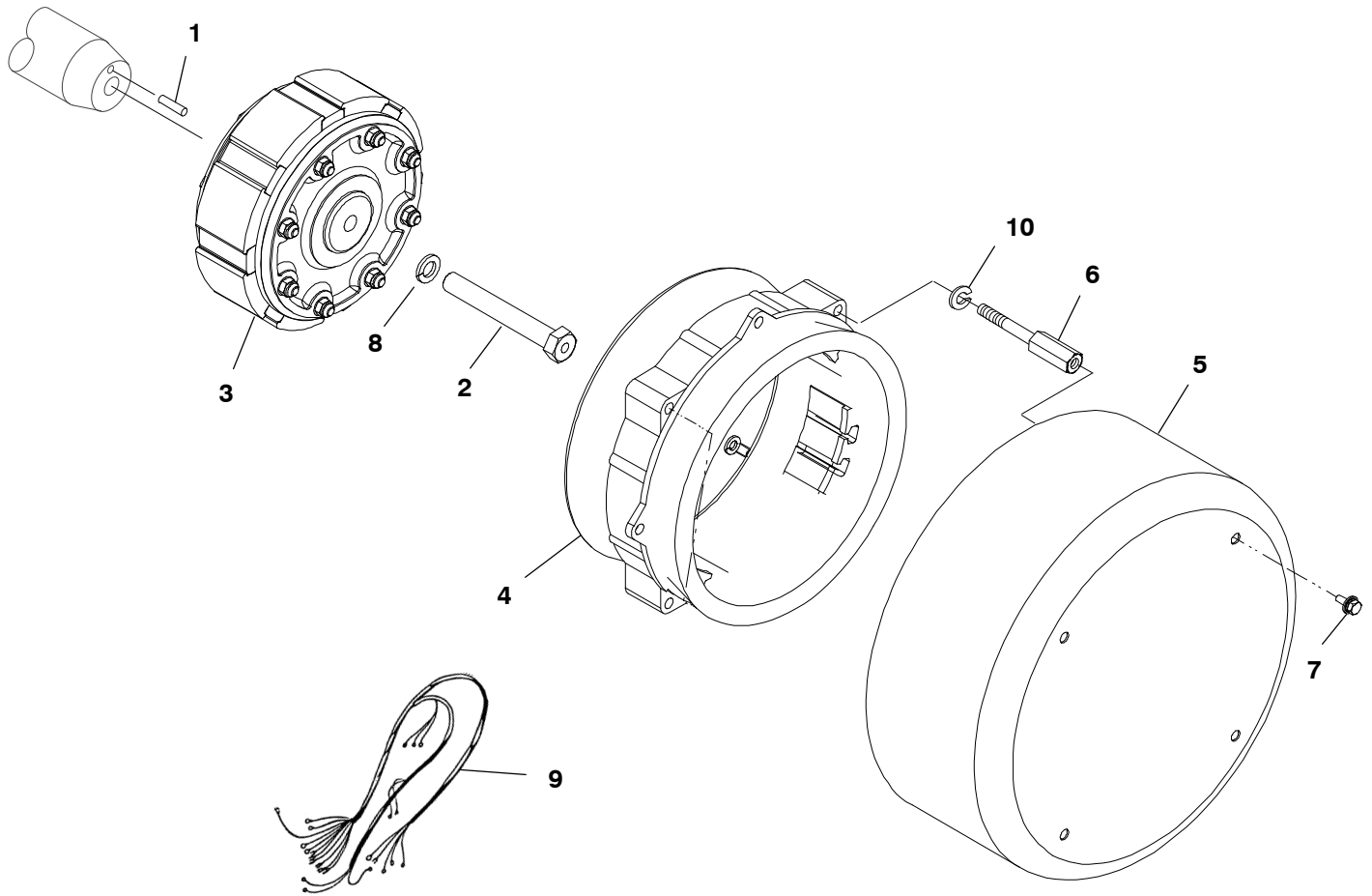
* – Parts Included in Rotor Assembly.

Generator Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cartridge, Heater	8	332-3023	1	Block, Terminal
	333-0438-07	1	110-125 Volt	9	508-0228	1	Grommet
	333-0438-08	1	220-260 Volt	10	098-7281	1	Label, Warning - Heater
2	332-3024-11	2	Clamp, Loop	11	822-3047	1	Screw, Pan Head (M3 x 20)
3	822-3075	6	Screw, Pan Head (M4 x 16)	12	850-2003	1	Washer, Lock (M3)
4	860-2005	2	Nut, Hex (M4)	13	332-1389	1	Tie, Cable
5	850-2004	4	Washer, Lock (M4)	14	815-0792-04	2	Screw, Countersunk - Pan Head (M4 x .7 x 12)
6	526-2050	2	Washer, Flat (M4)	15	517-0021	1	Plug, Dot - Button
7	330-0142	1	Box, Terminal - Heater				

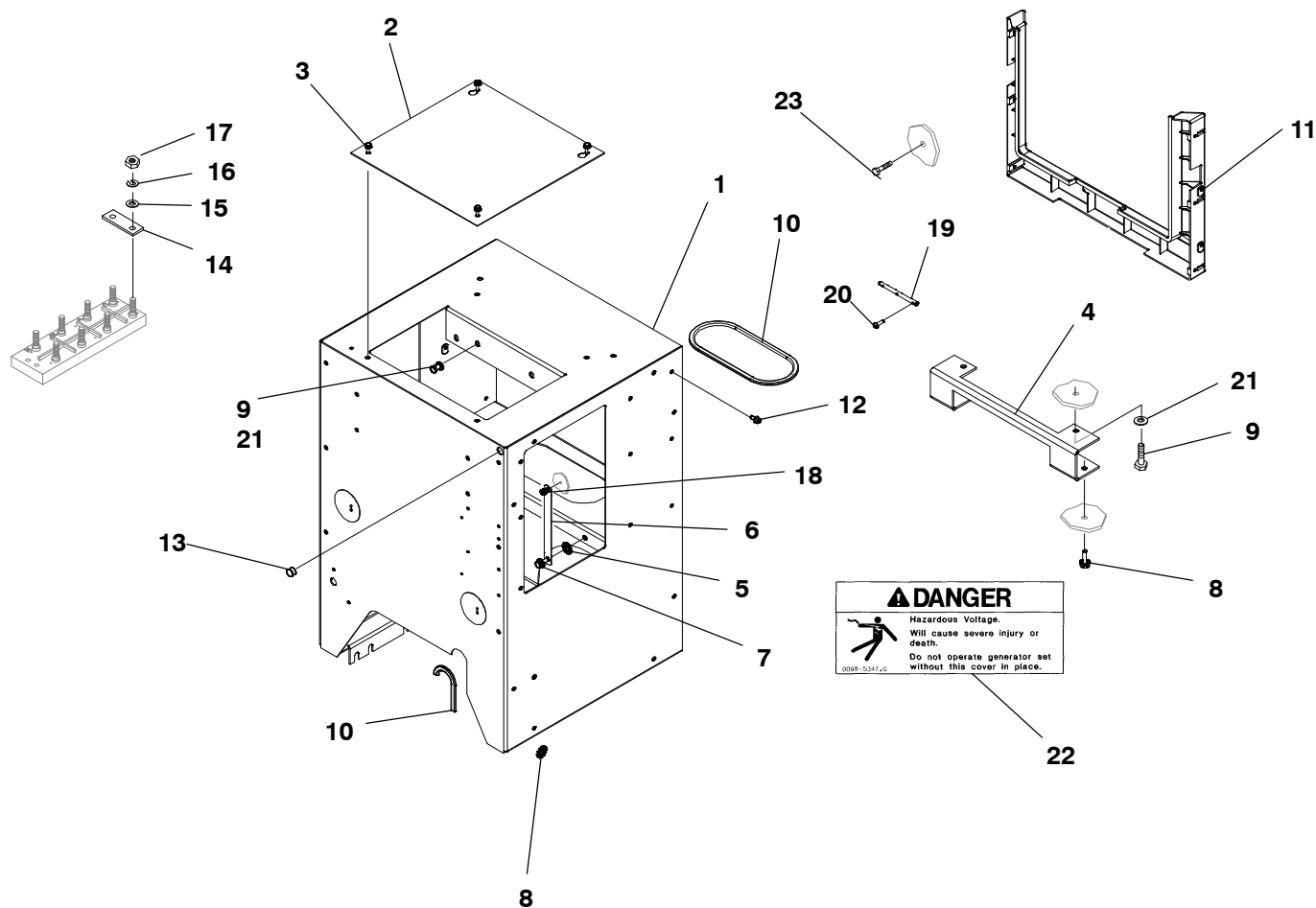
Permanent Magnet Generator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	775-0049	1	Pin, Parallel
2	815-0761-01	1	Bolt, Mounting - PMG
3	201-3446	1	Rotor, PMG
4	220-4233	1	Stator, PMG
5	234-0875-02-G1		Cover, End Bell

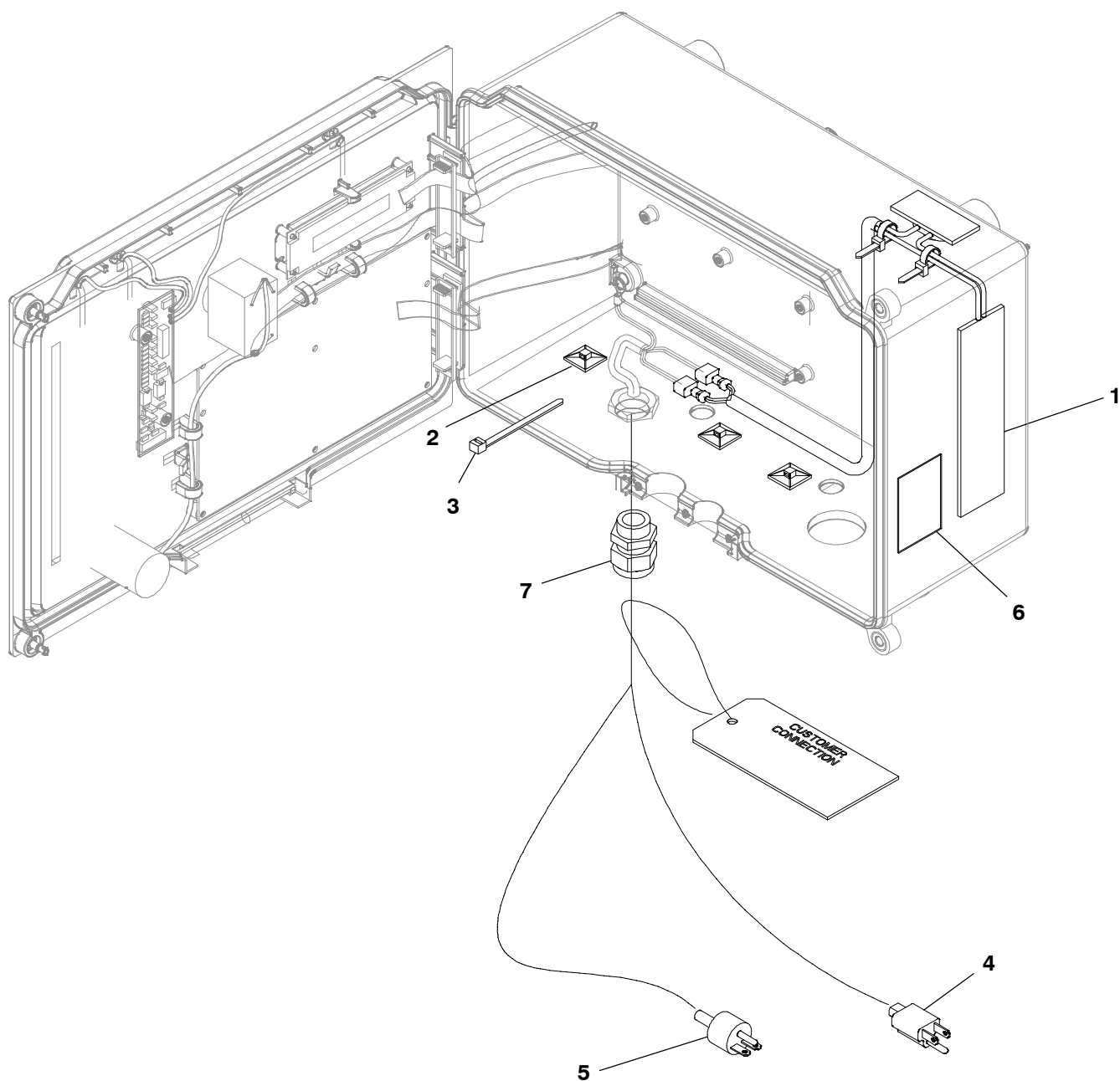
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	232-3462-02	4	Spacer, Cover
7	821-6001-01	4	Screw, Hex Head (M5 x 10)
8	850-2010	1	Washer, Lock (M10)
9	338-3011	1	Harness, PMG
10	850-2006	4	Washer, Lock (M6)

Control Housing



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

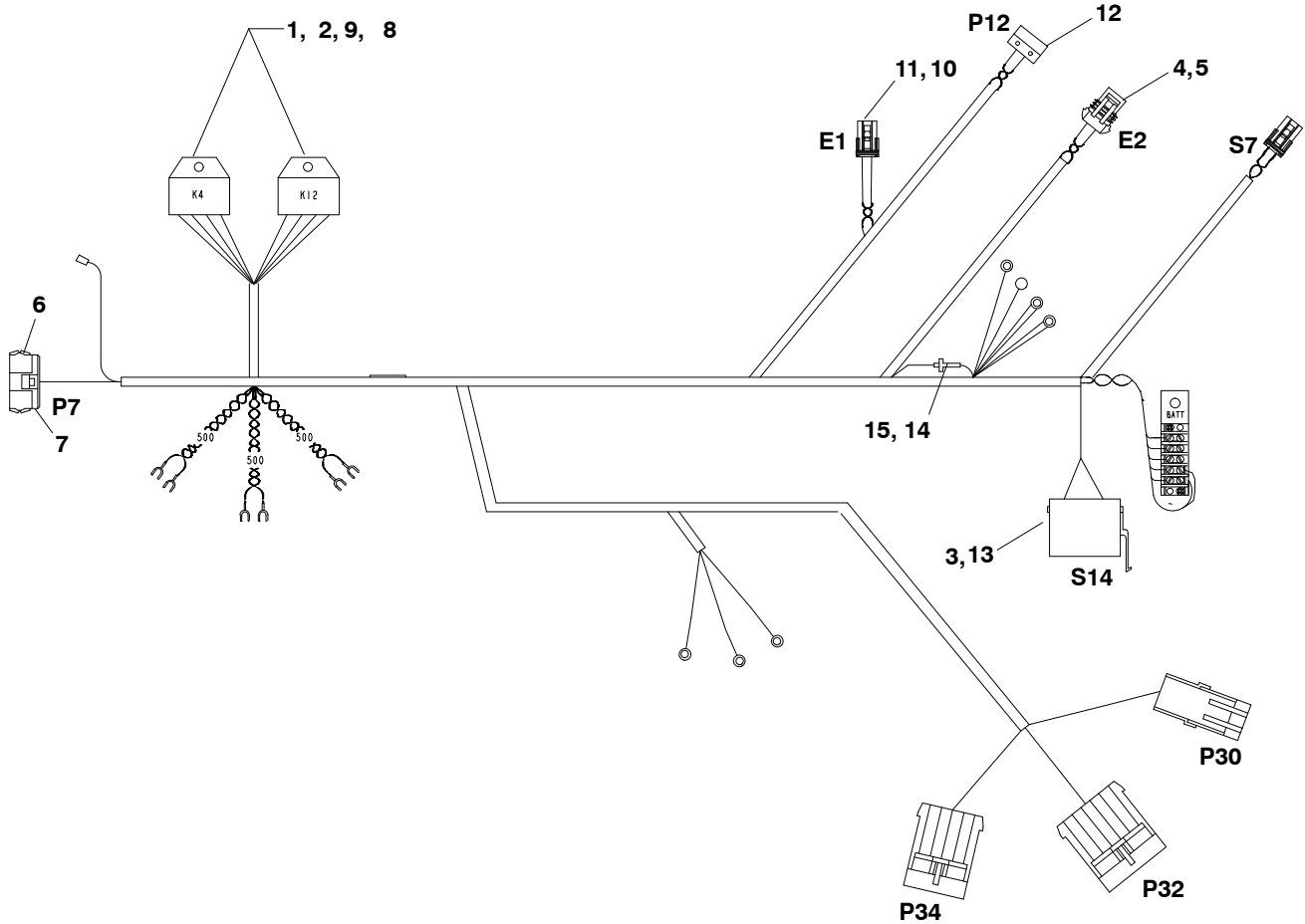
Control Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0661-01	1	Control, Heater 120V
	333-0661-02	1	240V
2	332-2420	3	Mount, Cable Tie
3	332-0942	3	Tie, Cable

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	335-0173	1	Cable, Control Heater – 120V
5	335-0173-01	1	Cable, Control Heater – 240V
6	098-6195	1	Label, Caution
7	323-2003-02	1	Strain Relief

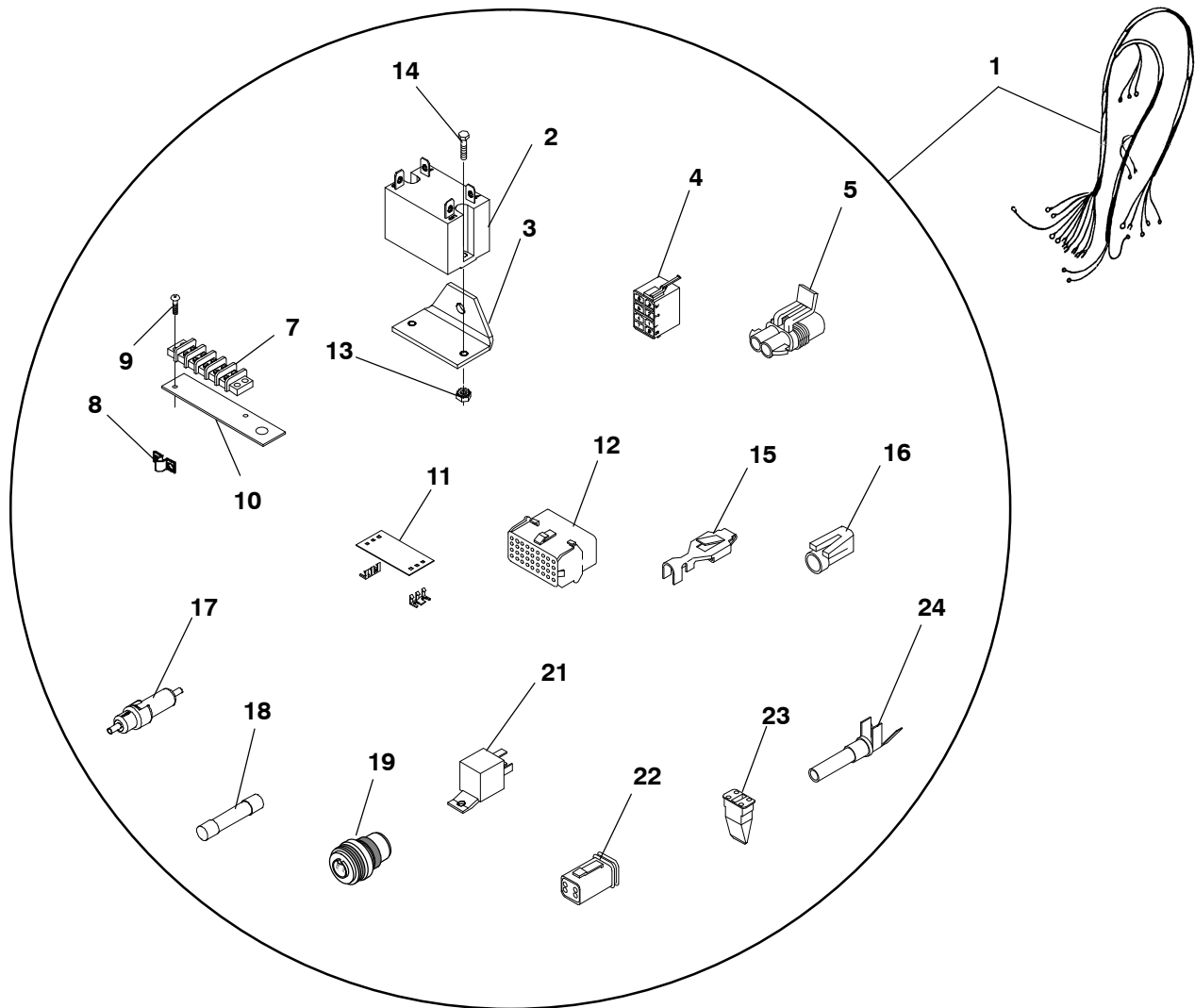
Engine Wiring Harness Spec A, B



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-4397	1	Harness, Genset Wiring
1	307-2968-03	2	Relay, Power
2	307-2982-02	2	Bracket, Relay
3	308-1019	1	Connector, Switch
4	323-1755	1	Connector, Socket (Housing)
5	323-1818	2	Terminal, Socket
6	332-3791	21	Terminal, Pin
7	323-1525	1	Connector, (36Pin, P7)

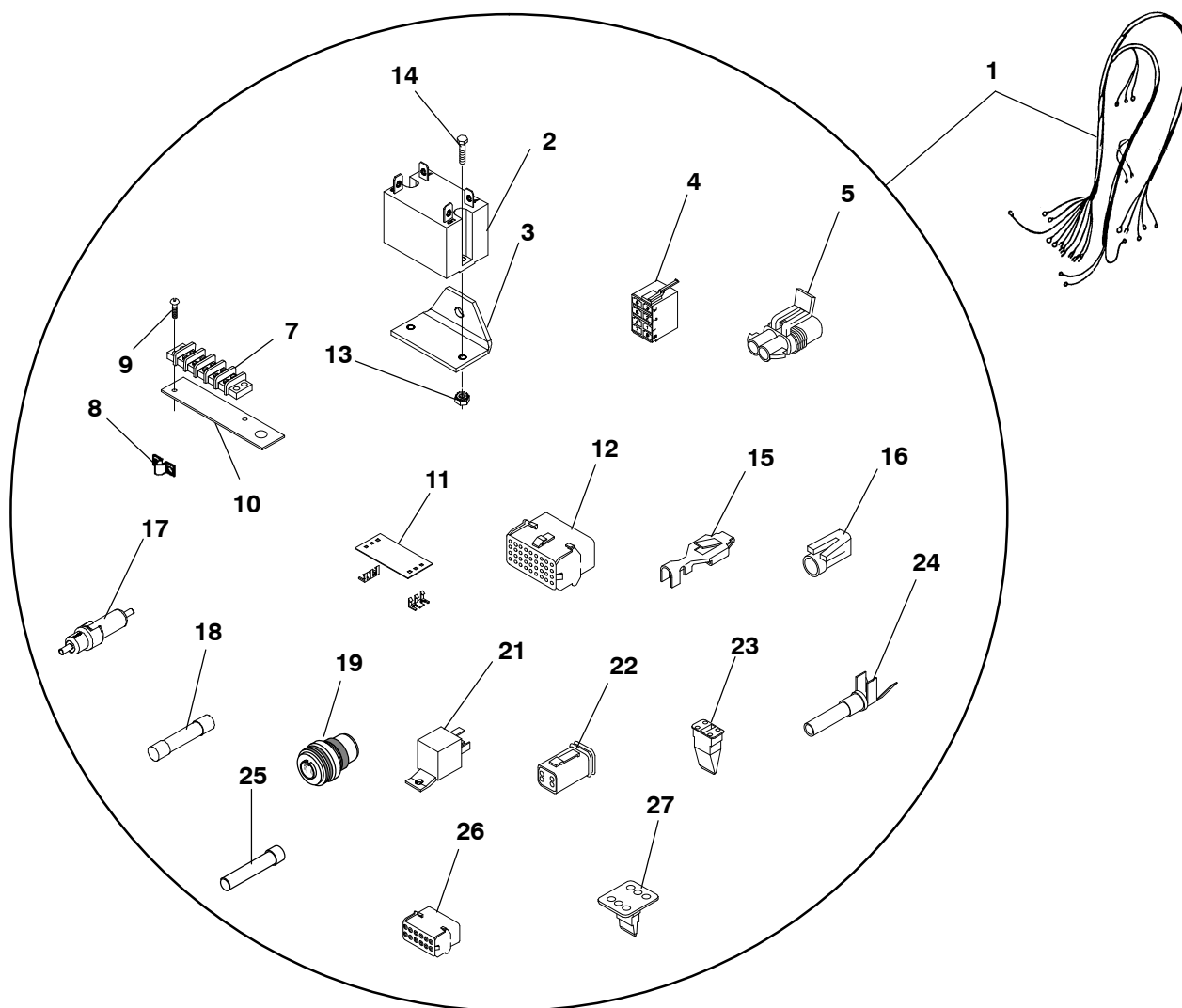
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	870-0221	4	Nut, Hex (8-32")
9	812-0079	4	Screw, (8-32")
10	323-1667	3	Socket, Terminal
11	323-1666	1	Connector, Socket (E1)
12	323-1509	1	Plug, (P12, 2 Pin)
13	332-1477	7	Terminal, Receptacle
14	321-0371	1	Holder, Fuse
15	321-0340	1	Fuse, 15 Amp

Spec C-D



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4700	1	Harness, Genset Wiring (Includes the Following Parts)	12	323-1525	1	Connector - 36 Pin
2	307-2968-03	3	Relay, Power	13	870-0221	6	Nut, Hex - W/ET (#8-32)
3	307-2982-02	3	Bracket, Relay	14	812-0079	6	Screw (#8-32)
4	308-1019	1	Connector, Switch	15	323-1667	3	Socket, Terminal
5	323-1755	1	Connector, Socket (Housing)	16	323-1666	1	Connector, Socket
6	323-1818	2	Terminal, Socket (Not Illustrated)	17	321-0371	1	Holder, Fuse
7	332-0604	1	Block, Terminal (T26)	18	321-0340	1	Fuse, 15 Amp
8	332-1043	4	Jumper (T26)	19	323-1509	1	Plug - 2 Pin
9	815-0538	2	Screw, Machine - Round Head - Cross Recessed W/IT (8-32 x .50)	20	332-2928	2	Terminal, Receptacle (Not Illustrated)
				21	307-2817-01	2	Relay (12V)
				22	323-1546	1	Plug - 4 Pin
10	319-2006-01	1	Bracket, Terminal Mounting	23	323-1548	1	Wedge, Plug - 4 Pin
11	332-3792-01	1	Cover, Terminal Block (Includes 2 Nylon Spring Clips)	24	323-1492	4	Socket, Contact

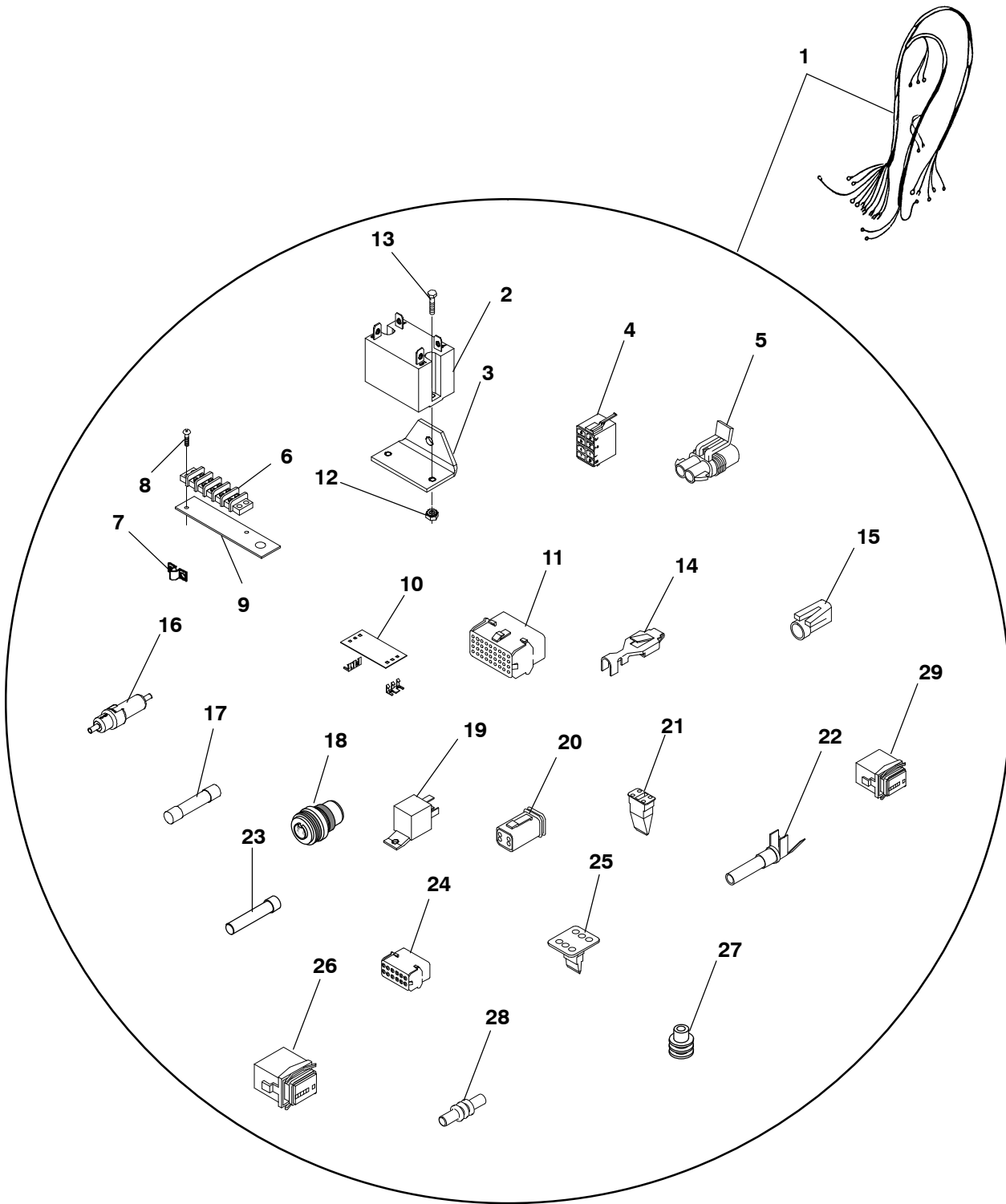
Engine Wiring Harness Spec E



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-5049	1	Harness, Genset Wiring (Includes the Following Parts)	13	870-0221	6	Nut, Hex – W/ET (#8-32)
2	307-2968-03	3	Relay, Power	14	812-0079	6	Screw (#8-32)
3	307-2982-02	3	Bracket, Relay	15	323-1667	6	Socket, Terminal
4	308-1019	1	Connector, Switch	16	323-1666	2	Connector, Socket
5	323-1755	1	Connector, Socket (Housing)	17	321-0371	1	Holder, Fuse
6	323-1818	2	Terminal, Socket (Not Illustrated)	18	321-0340	1	Fuse, 15 Amp
7	332-0604	1	Block, Terminal (T26)	19	323-1509	1	Plug – 2 Pin
8	332-1043	4	Jumper (T26)	20	332-2928	2	Terminal, Receptacle (Not Illustrated)
9	815-0538	2	Screw, Machine – Round Head – Cross Recessed W/IT (8-32 x .50)	21	307-2817-01	2	Relay (12V)
10	319-2006-05	1	Bracket, Terminal Mounting	22	323-1546	1	Plug – 4 Pin
11	332-3792-01	1	Cover, Terminal Block (Includes 2 Nylon Spring Clips)	23	323-1548	1	Wedge, Plug – 4 Pin
12	323-1525	1	Connector – 36 Pin	24	323-1492	10	Socket, Contact
				25	323-1591	6	Plug, Seal (A20)
				26	323-1582	1	Plug (A20)
				27	323-1583	1	Wedge, Plug (A20)

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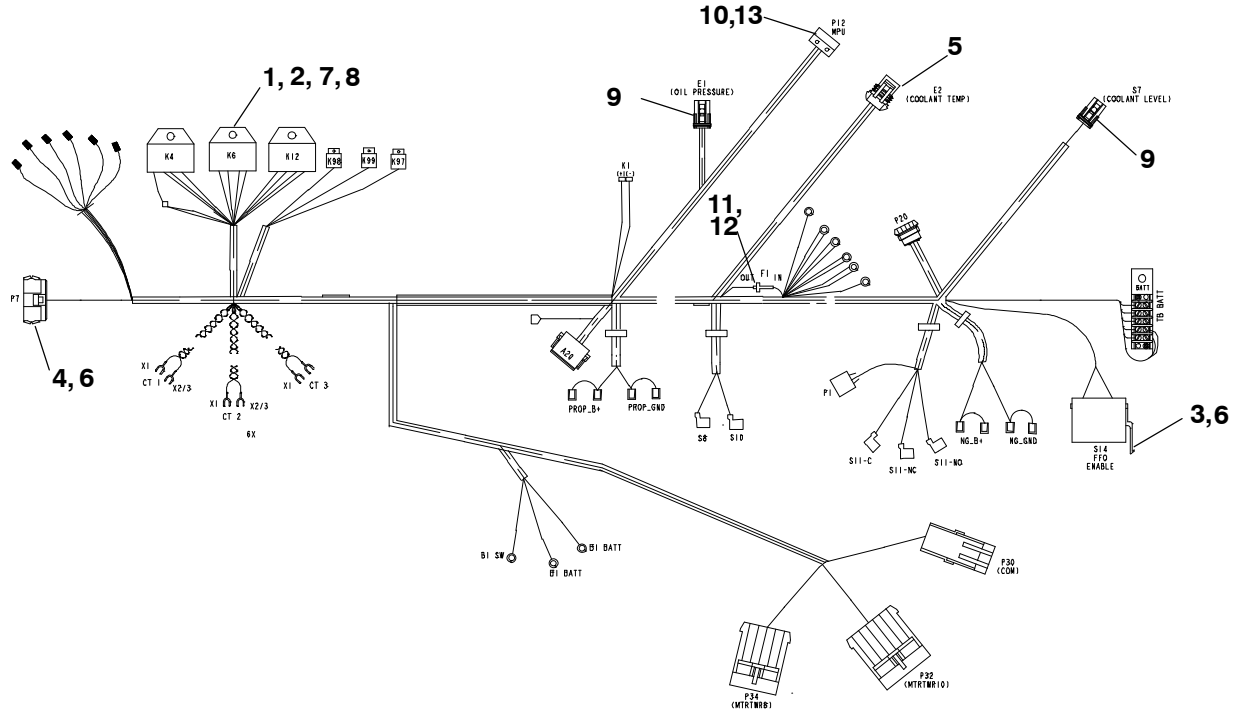
Engine Wiring Harness Begin Spec F



Engine Wiring Harness Begin Spec F

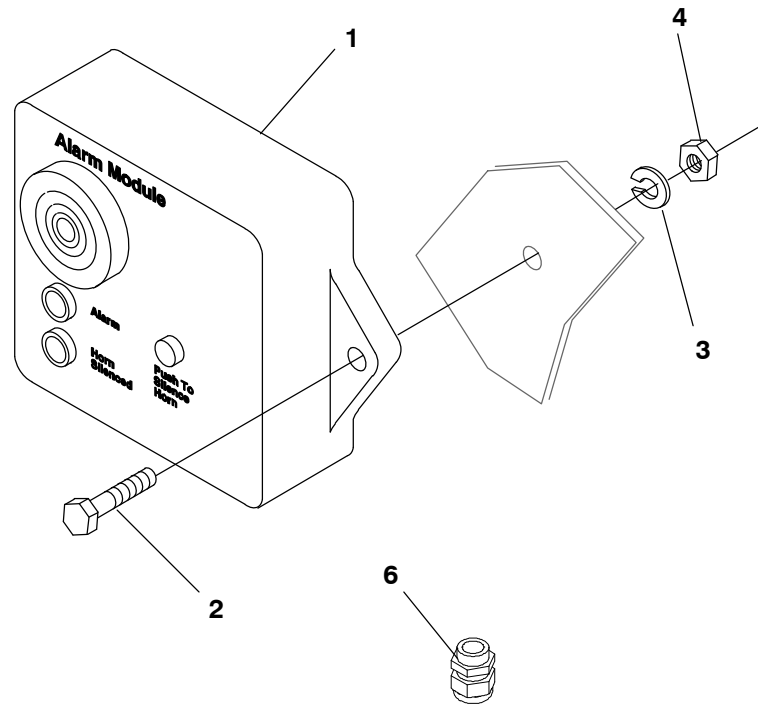
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A029D897	1	Harness, Genset Wiring (Includes the Following Parts)	14	323-1667	6	Socket, Terminal
2	307-2968-03	3	Relay, Power	15	323-1666	2	Connector, Socket
3	307-2982-02	3	Bracket, Relay	16	321-0371	1	Holder, Fuse
4	308-1019	1	Connector, Switch	17	321-0340	1	Fuse, 15 Amp
5	323-1755	1	Connector, Socket (Housing)	18	323-1509	1	Plug - 2 Pin
6	332-0604	1	Block, Terminal (T26)	19	307-2817-01	3	Relay (12V)
7	332-1043	4	Jumper (T26)	20	323-1546	1	Plug - 4 Pin
8	815-0538	2	Screw, Machine - Round Head - Cross Recessed W/IT (8-32 x .50)	21	323-1548	1	Wedge, Plug - 4 Pin
9	319-2006-05	1	Bracket, Terminal Mounting	22	323-1492	10	Socket, Contact
10	332-3792-01	1	Cover, Terminal Block (Includes 2 Nylon Spring Clips)	23	323-1591	6	Plug, Seal (A20)
11	323-1525	1	Connector - 36 Pin	24	323-1582	1	Plug (A20)
12	870-0221	6	Nut, Hex - W/ET (#8-32)	25	323-1583	1	Wedge, Plug (A20)
13	812-0079	6	Screw (#8-32)	26	323-1710	1	Connector, Receptacle - 10 Pin
				27	323-1708	22	Seal, Cable
				28	323-1712	14	Plug, Cavity
				29	323-1744	1	Connector, Receptacle - 8 Pin

Engine Wiring Harness Begin Spec G



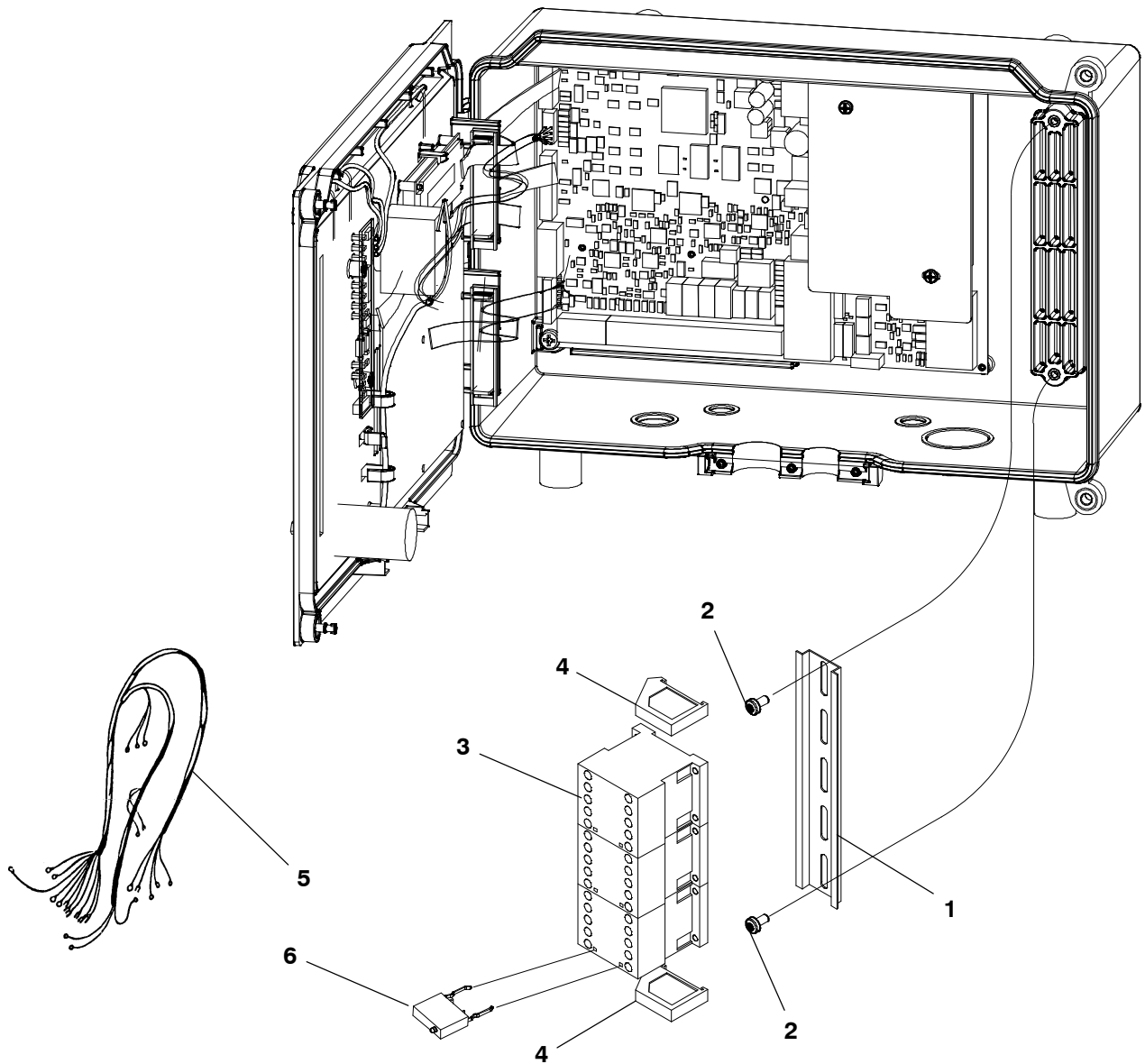
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	A029D897	1	Harness, Genset Wiring	7	870-0221	6	Nut, Hex (8-32")
1	307-2968-03	3	Relay, Power	8	812-0079	6	Screw, (8-32")
2	307-2982-02	3	Bracket, Relay	9	323-1666	2	Connector, Socket (E1)
3	308-1019	1	Connector, Switch	10	323-1509	1	Plug, (P12, 2 Pin)
4	323-1525	1	Plug, Connection	11	321-0371	1	Holder, Fuse
5	323-1755	1	Connector, Socket	12	321-0340	1	Fuse, 15 Amp
6	332-3791	18	Terminal, Receptacle)	13	323-1510	1	Clamp

Alarm Module



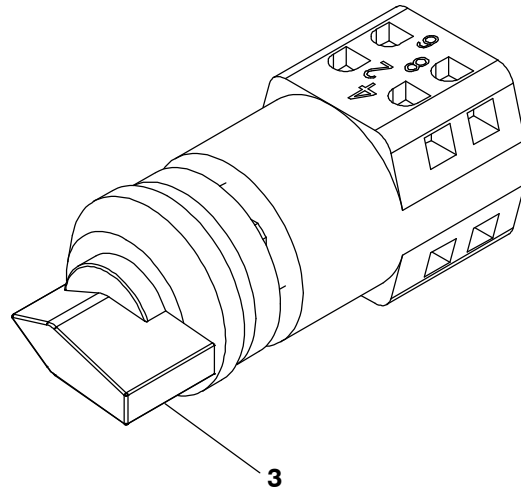
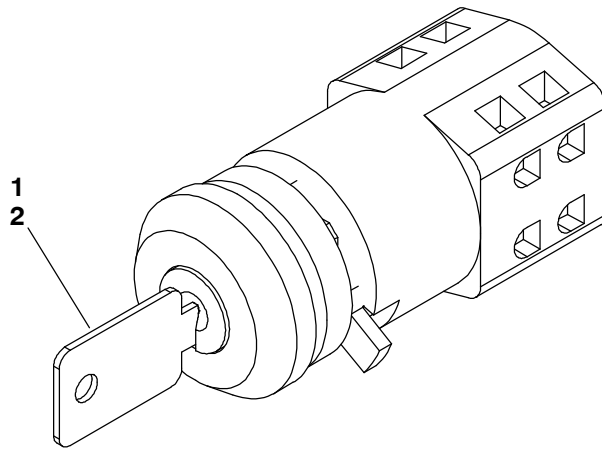
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	856-0013	1	Washer, Lock - W/EIT (1/2)	4	850-0040	2	Washer, Locking (1/4")
2	300-3998-02	1	Module, Alarm (12V)	5	862-0001	2	Nut, Hex (1/4-20)
3	800-0006	2	Screw, Hex Head Cap (1/4-20 x 7/8)	6	323-2003-01	1	Relief, Strain

Control 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	6	305-1009	3	Suppressor, Voltage

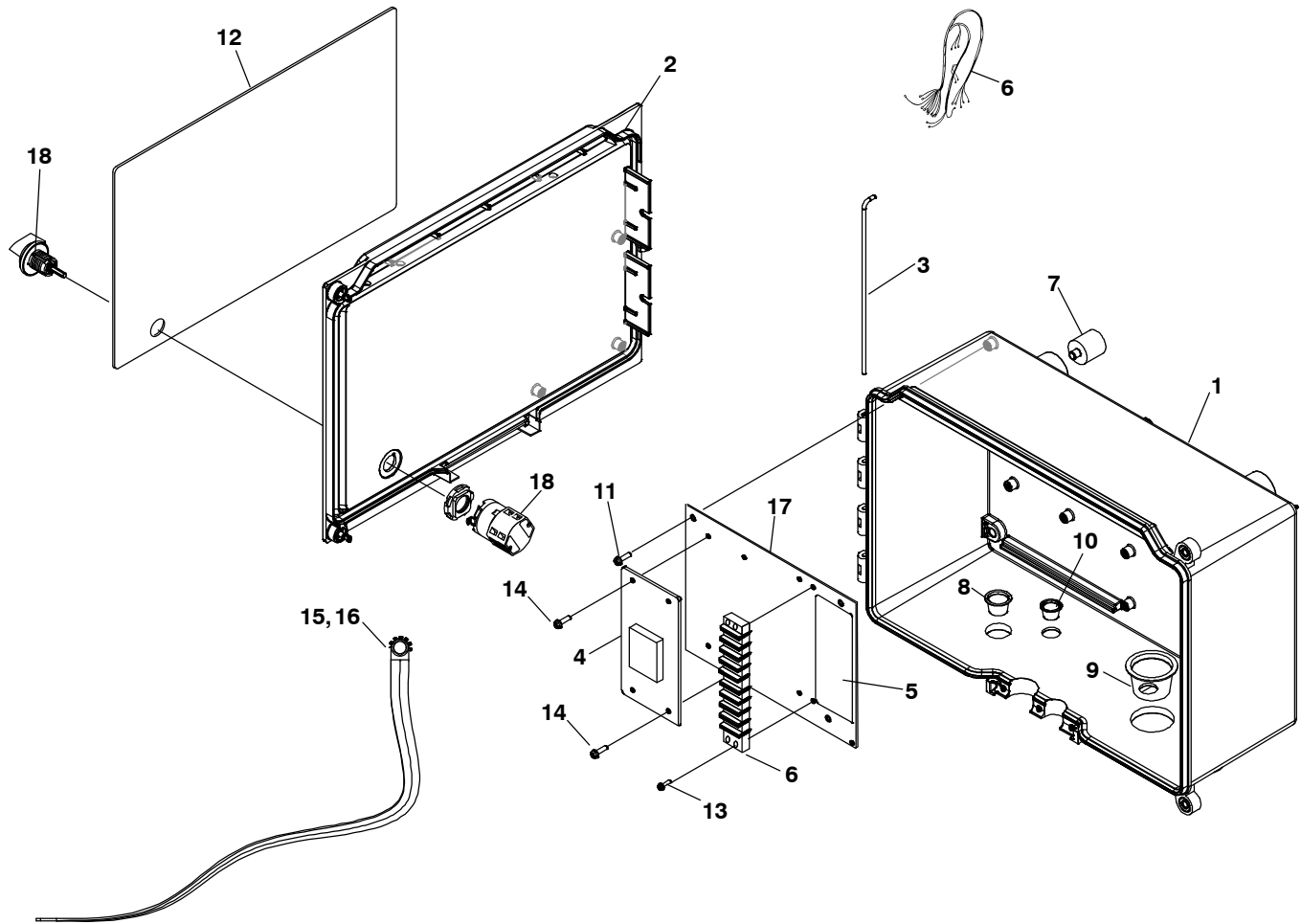
Operator Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	308-1045	1	Switch, Key Operator
2	308-1046	2	Key - Spare

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	308-1085	1	Switch, Selector

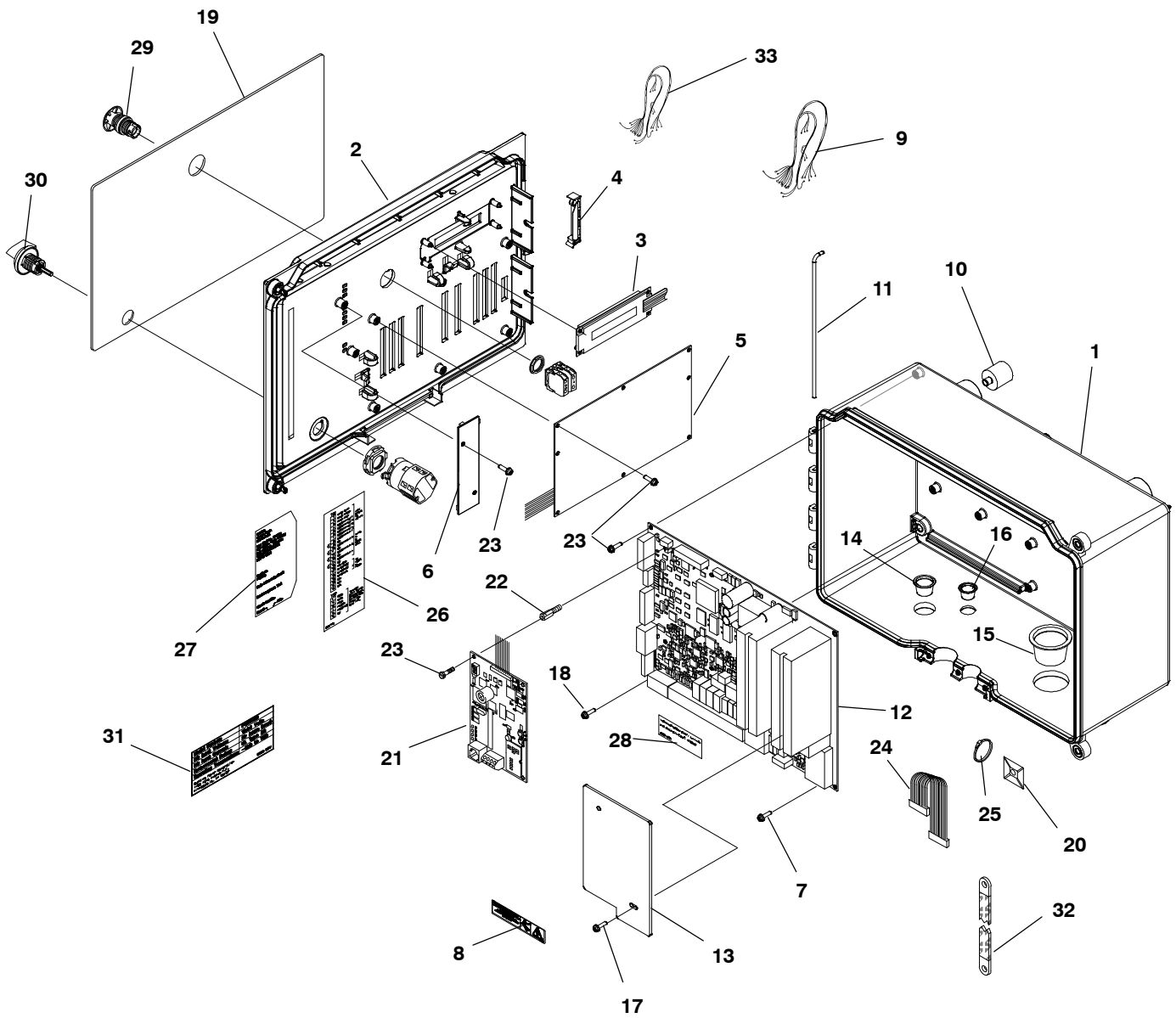
Control Basic



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4487	1	Box, Control	12	098-8195	1	Overlay, Label
2	319-4488	1	Door, Control	13	812-0065	4	Screw, Slotted Round Head (6-32UNC x .625")
3	406-0845	1	Pin, Hinge	14	815-0905-08	4	Screw, Pan Head - Cross (10-32 x .875")
4	305-0982	1	Regulator, Voltage	15	337-0049	1	Strap, Bond
5	098-8196	1	Label, Information	16	819-1144	1	Screw, Pan Head - Cross Recessed (M6 x 8)
6	338-4405	1	Harness, Genset (Basic Control)	17	319-5218-02	1	Plate, Mounting
7	402-0764-01	4	Mount, Isolator	18	308-1085	1	Switch, Selector
8	517-0356	1	Plug, Hole (Fits 22.5mm DIA. Hole)				
9	517-0357	1	Plug, Hole (Fits 38mm DIA. Hole)				
10	517-0355	2	Plug, Hole (Fits 16mm DIA. Hole)				
11	819-1137-01	4	Screw, Pan Head - Cross Recessed (M3 x 6)				

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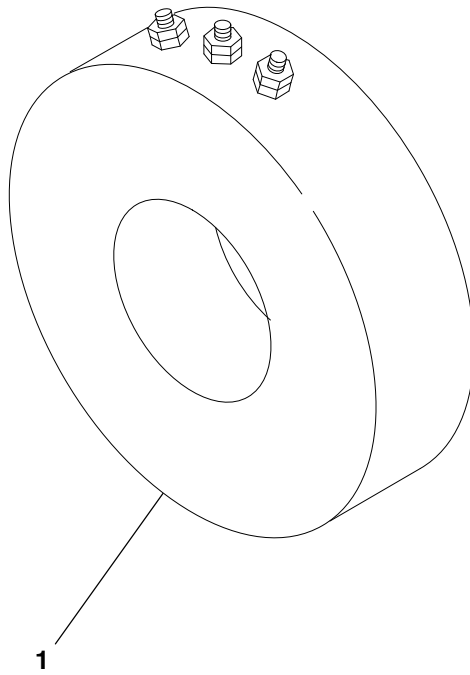
Control PCC2100



Control PCC2100

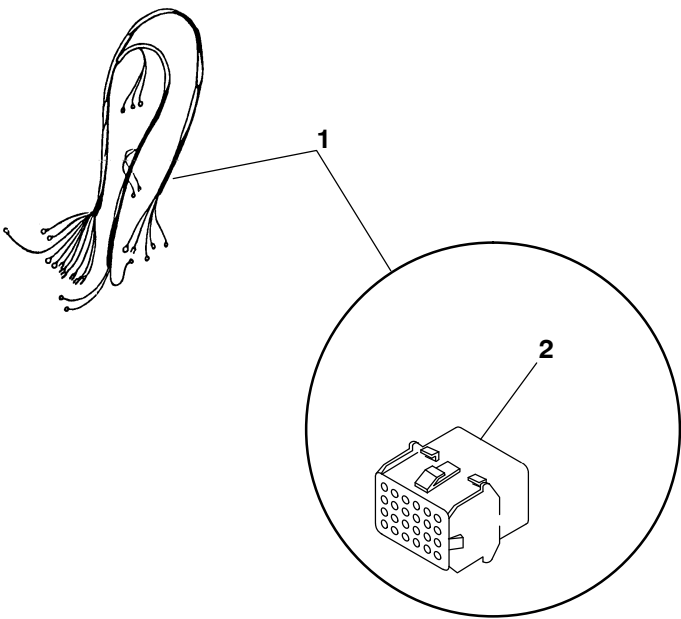
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4487	1	Box, Control	18	819-1144	2	Screw, Pan Head – Cross Recessed (M6 x 8)
2	319-4488	1	Door Control	19			Panel, Membrane
3	300-5467	1	Display, Digital		319-5010	1	With Meters
4	332-3896	4	Clamp, Cable		319-5011	1	Without Meters
5	300-5180	1	Board, Printed Circuit – Bargraph	20	332-2420	2	Mount, Cable Tie
6	300-5383	1	Board, Printed Circuit – LED	21	541-0770	1	Board, Printed Circuit – NCM
7	819-1137-02	4	Screw, Pan Head – Cross Recessed (M3 x 8)	22	870-2213-02	4	Standoff, Hex Threaded – With NCM
8	098-7904	2	Label, Danger	23			Screw, Pan Head – Cross Recessed (M3 x 6)
9	338-3991	1	Harness, Control – Door		819-1137-01	9	Without Bargraph
10	402-0764-01	4	Mount, Isolator		819-1137-01	15	With Bargraph
11	406-0845	1	Pin, Hinge	24	335-0189	1	Cable, Ribbon
12	327-1379-01	1	Board, Printed Circuit – Base (Includes Fuses)	25	332-0942	3	Tie, Cable
	321-0321-06	1	Fuse, Fast – 10A	26	098-7918	1	Label, Information
	321-0321-04	1	Fuse, Fast – 5A	27	098-7961-01	1	Label, Information – Panel Insert
	321-0321-01	1	Fuse, Fast – 2A	28	098-7989	1	Label, Instruction – Torque
13	319-4497	1	Guard, Electrical	29	308-0999	1	Switch, Emergency Stop
14	517-0356	1	Plug, Hole (Fits 22.5mm DIA. Hole)	30	308-1085	1	Switch, Selector
15	517-0357	1	Plug, Hole (Fits 38mm DIA. Hole)	31	098-8057	1	Label, Information – Rating
16	517-0355	2	Plug, Hole (Fits 16mm DIA. Hole)	32	337-0049	1	Strap, Bond
17	815-0792-02	2	Screw, Machine – Pan Head (M4 x 0.7 x 8)	33	338-5027	1	Harness, Control Panel (LED Kit)

Current Transformer



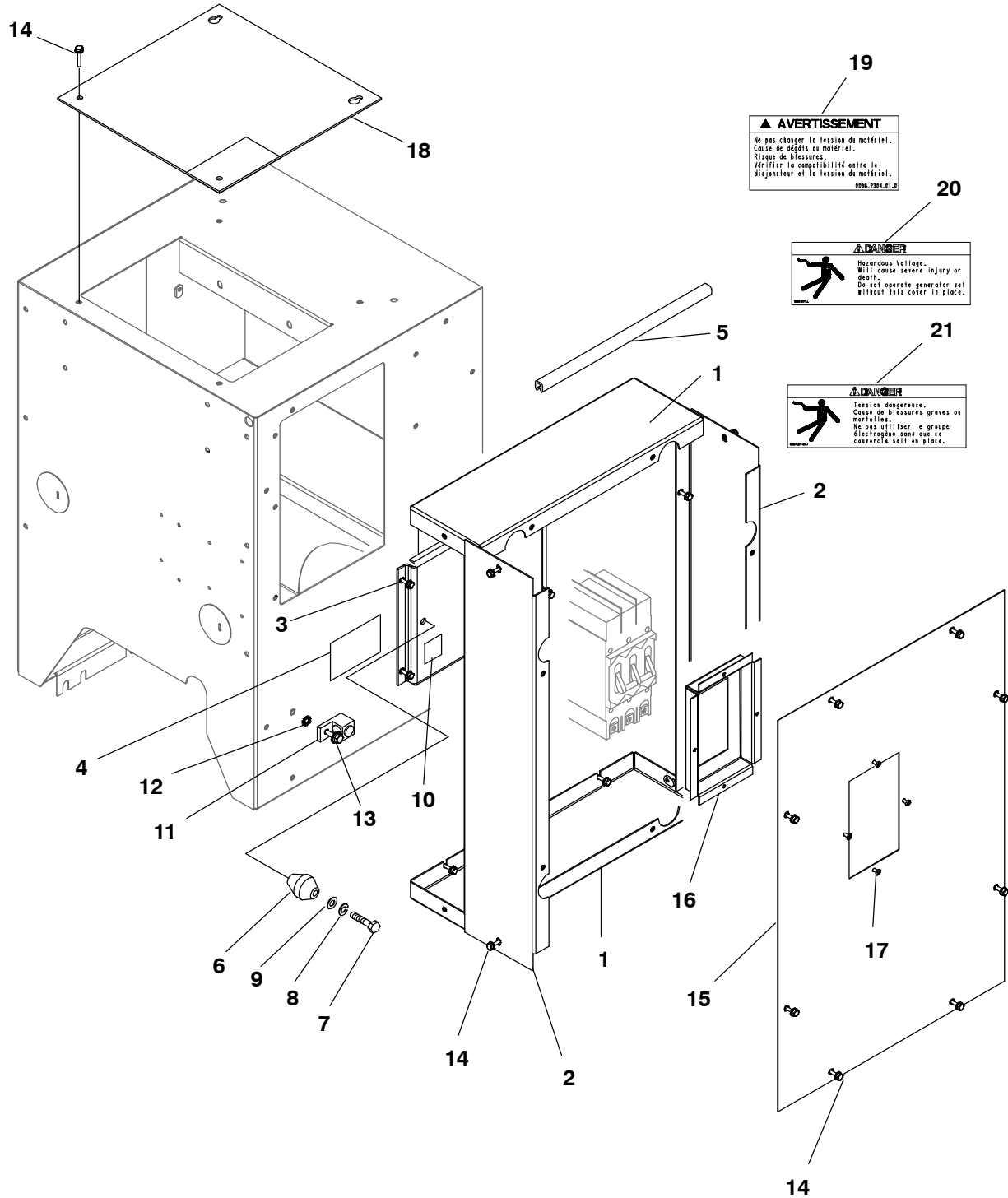
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current				
	302-2057-11	3	Ratio 432/1 or 864/1				
	302-2057-14	2	Ratio 518/1 or 1036/1				
	302-2058-26	3	Ratio 302/1				
	302-2058-27	3	Ratio 362/1				

AC Wiring Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – AC (Includes Plug)	2	323-1523	1	Plug, Connector (24 Place)
	338-4180	1	PMG				
	338-4185	1	Shunt				

Circuit Breaker Box

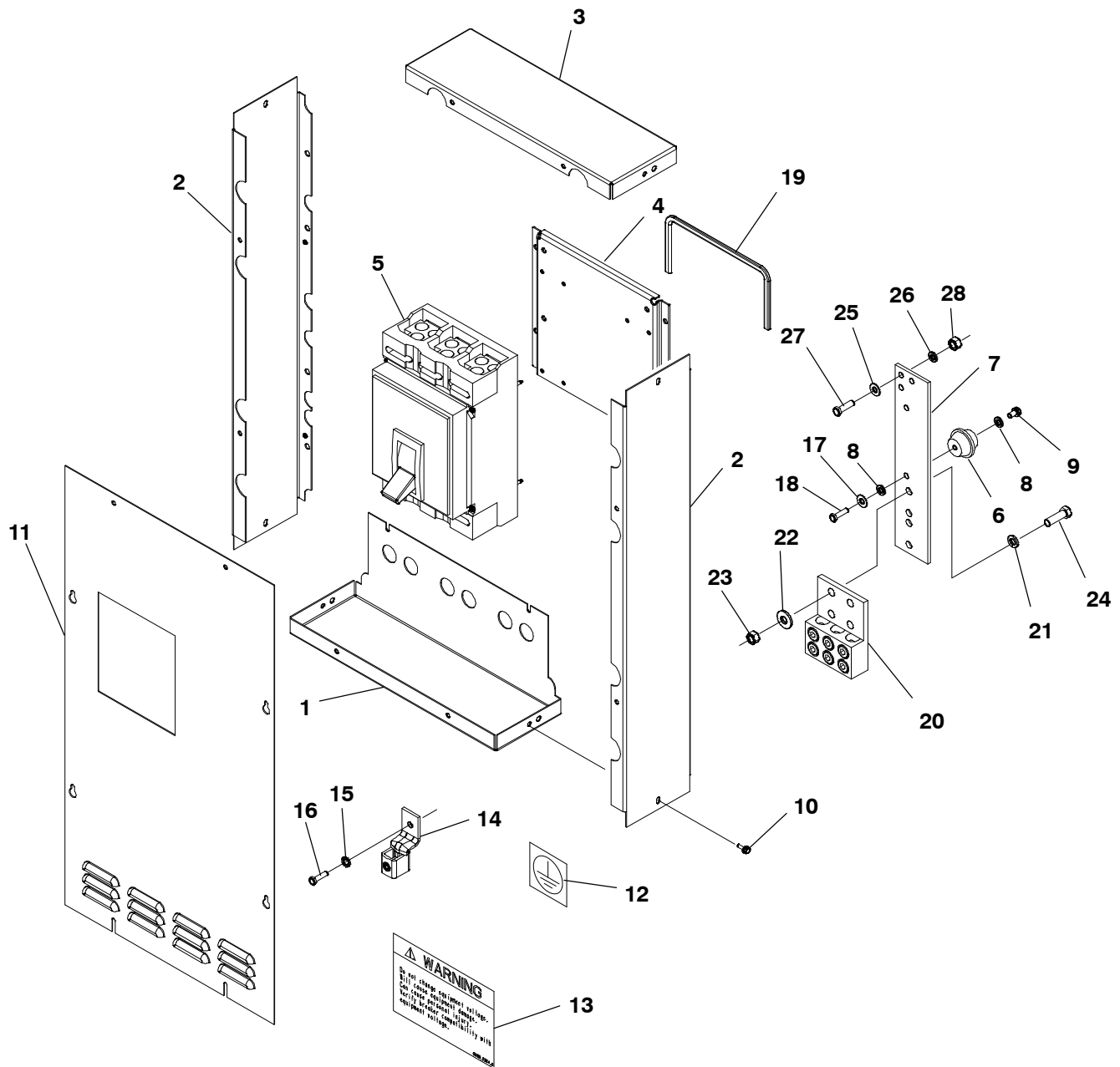


Circuit Breaker Box

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3072	2	Panel, End – CB Box	16			Cutout, CB Box
2	319-2978	2	Panel, Side – CB Box				UL
3			Bracket, Mounting – CB	319-3150	1		600 Volt, 300–630 Amp, 3 Pole
	319-5390-02	1	600 Volt Breaker	319-3240	1		240 Volt, 300–400 Amp, 2/3 Pole
	319-3243	1	240 Volt Breaker	319-3241	1		600 Volt, 10–100 Amp, 3 Pole
4	098-2304	1	Label, Warning	319-3242	1		240 Volt, 100–250 Amp, 2/3 Pole
5	508-0239	–	Edging – Bulk (Order By The Foot – 2 Feet Required)	319-3304	1		600 Volt, 125–600 Amp, 3 Pole
6	332-2744-07	1	*Standoff, Insulator				IEC
7	800-0048	2	*Screw, Cap – Hex Head (3/8–16 x .75)	319-3150	1		750 Volt, 300–630 Amp, 3/4 Pole
8	850-0050	2	*Washer, Lock (3/8)	319-3241	1		660 Volt, 10–100 Amp, 3 Pole
9	526-0029	1	*Washer, Flat (3/8)	319-3242	1		750 Volt, 70–250 Amp, 3/4 Pole
10	098-5854-04	1	*Label, Bus – Warning	319-3304	1		660 Volt, 125–600 Amp, 3 Pole
11	332-1473	1	Lug, Solderless	17	818-0231-02	4	Rivet, Pop
12	856-0008	1	Washer, Lock – EIT (5/16)	18	319-2996	1	Cover, Housing – Control
13	821-6003-02	1	Screw, SEMS – Hex Head (M8 x 1.25 x 20)	19	098-2304-01	2	Label, Warning (French)
14	821-6002-03	24	Screw, SEMS – Hex Head (6 x 1 x 16)	20	098-5347	1	Label, Danger
15	319-3151	1	Cover, CB Box	21	098-5347-02	1	Label, Danger (French)

* = UL Rated Breakers only.

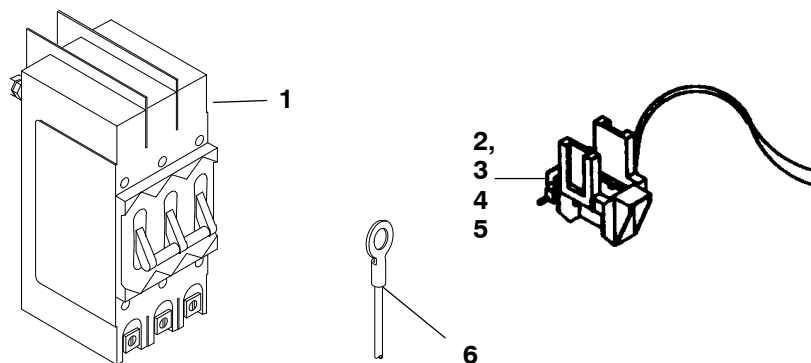
Circuit Breaker Box **800 Amp** **Begin Spec B**



Circuit Breaker Box
800 Amp
Begin Spec B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5718-02	1	Panel, Circuit Breaker Box – End	15	856-0008	1	Washer, Lock – W/EIT (5/16)
2	319-5717-02	2	Panel, Circuit Breaker Box – Side	16	821-6003-02	1	Screw, Hex Head (M8 x 1.25 x 20)
3	319-5719-02	1	Panel, Circuit Breaker Box – End	17	526-0399-16	2	Washer, Flat
4	319-5716-02	1	Bracket, Circuit Breaker – Mounting	18	800-0029-01	2	Screw, Cap – Hex Head (5/16-18 x 1.12)
5	320-2261-02	1	Breaker, Circuit	19	508-0305-02	–	Edging – Bulk (Order by the Foot – 2 Feet Required)
6	332-2305	2	Standoff, Insulator	20	332-3949	1	Lug, Cable
7	337-3754	1	Bus, Bar – Neutral	21	851-0023	2	Washer, Spring (1/2)
8	850-0114-06	4	Washer, Lock – Split (5/16)	22	526-0219	2	Washer, Flat (1/2)
9	800-0025	2	Screw, Cap – Hex Head (5/16-18 x .62)	23	750-1010	2	Nut, Hex (M12 x 1.75)
10	821-6002-03	24	Screw, Hex Head (M6 x 1 x 16)	24	718-1076	2	Screw, Cap – Hex Head (M12 x 1.75 x 40)
11	319-5720-02	1	Cover, Circuit Breaker Box	25	526-0029	4	Washer, Flat
12	098-6537	1	Label, Ground	26	850-0050	2	Washer, Lock
13	098-2304	1	Label, Warning	27	800-0051	2	Screw, Cap – Hex Head (3/8-16 x 1.25)
14	332-2001	1	Lug, Solderless	28	862-0003	2	Nut, Hex (3/8-16)

Circuit Breaker

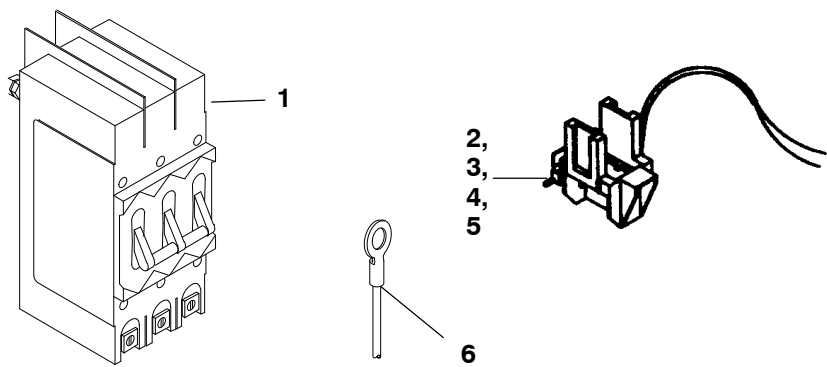


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit				
			2 Pole (UL)				3 Pole (UL & IEC)
	320-2238-07	1	100 Amp		320-2346-18	1 *	50 Amp
	320-2238-06	1	125 Amp		320-2346-17	1 *	60 Amp
	320-2238-05	1	150 Amp		320-2346-10	1 *	70 Amp
	320-2238-04	1	175 Amp		320-2346-09	1 *	80 Amp
	320-2238-03	1	200 Amp		320-2346-08	1 *	90 Amp
	320-2238-02	1	225 Amp		320-2346-07	1 *	100 Amp
	320-2238-01	1	250 Amp		320-2346-06	1 *	125 Amp
	320-1962-03	1 *	300 Amp		320-2346-05	1 *	150 Amp
	320-1962-02	1 *	350 Amp		320-2347-04	1 *	175 Amp
	320-1962-01	1 *	400 Amp		320-2347-03	1 *	200 Amp
			3 Pole (UL)		320-2347-02	1 *	225 Amp
	320-2238-14	1	100 Amp		320-2347-01	1 *	250 Amp
	320-2238-13	1	125 Amp		320-1960-06	1 *	300 Amp
	320-2238-12	1	150 Amp		320-1960-05	1 *	350 Amp
	320-2238-11	1	175 Amp		320-1960-04	1 *	400 Amp
	320-2238-10	1	200 Amp		320-1960-03	1 *	450 Amp
	320-2238-09	1	225 Amp		320-1960-02	1 *	500 Amp
	320-2238-08	1	250 Amp		320-1960-01	1 *	600 Amp
	320-1962-06	1 *	300 Amp				4 Pole (IEC)
	320-1962-05	1 *	350 Amp		320-1960-10	1 *	320 Amp
	320-1962-04	1 *	400 Amp		320-1960-09	1 *	400 Amp
					320-1960-08	1 *	500 Amp
					320-1960-07	1 *	630 Amp

* - Includes Mounting Hardware

Continued...

Circuit Breaker



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
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Continued...

Accessories, Circuit Breaker: The following are used on 320-1960-XX Circuit Breakers

- | | | | |
|---|-------------|---|---|
| 2 | 320-1981-02 | 1 | Trip, Shunt (12V) |
| 3 | 320-1981-01 | 2 | Switches – Used as an Auxiliary Contact or Trip Alarm |

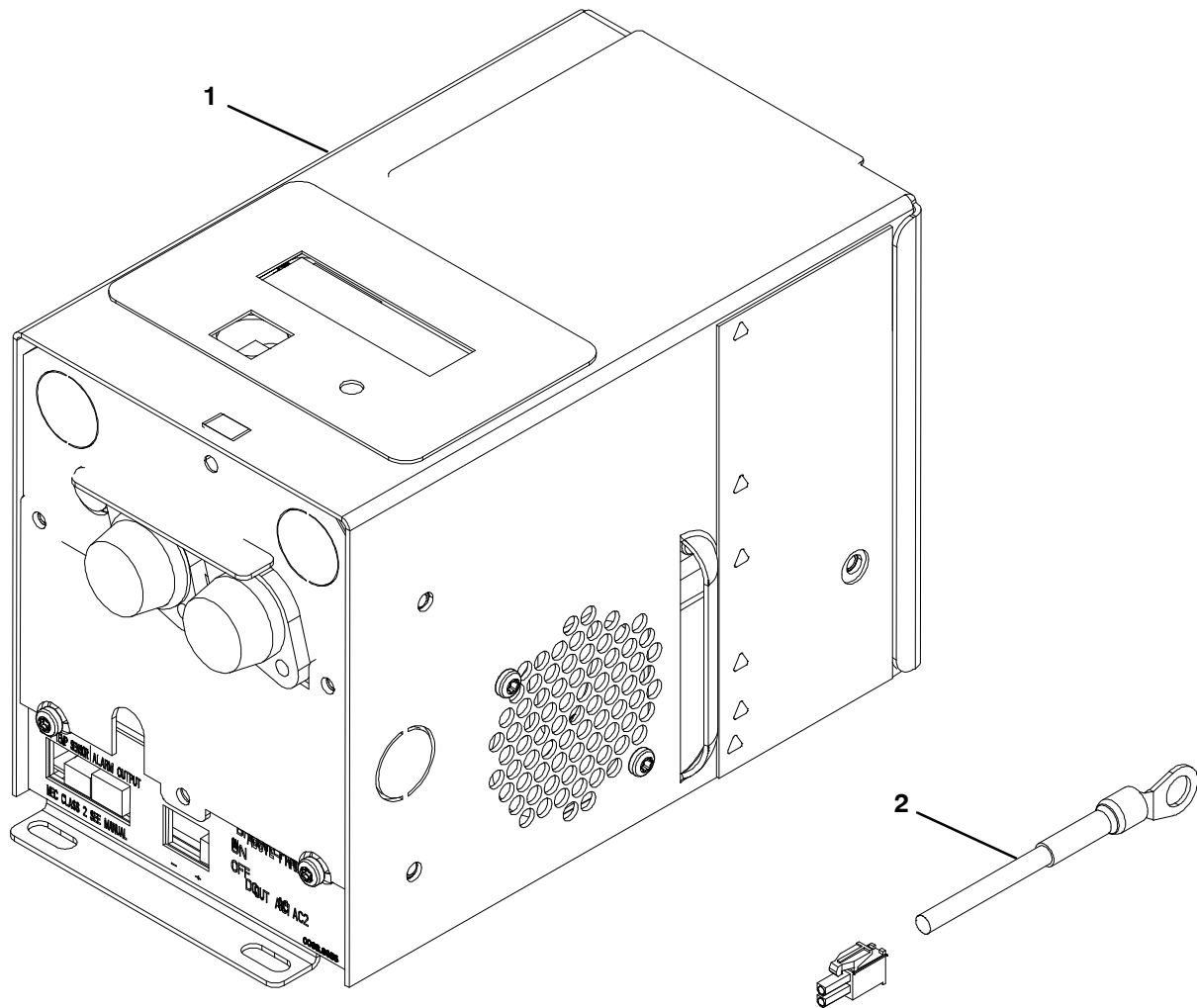
Accessories, Circuit Breaker: The following are used on Square D 'R' & 'P' Frame Circuit Breakers

- | | | | |
|---|-------------|---|---|
| 4 | 320-2196-03 | 1 | Trip, Shunt (12V) |
| 5 | 320-2196-01 | 1 | Switches – Used as an Auxiliary Contact or Trip Alarm |

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6			Lead (Quantity Used As Required)
	226-0893	1	3/8" Ring Terminal End to 1" Stripped End – No Markings (33") (#1/0 Wire)
	226-3505-01	1	3/8" Ring Terminal End to 1" Stripped End – No Markings (30") (#4 Wire)
	226-3505-03	1	3/8" Ring Terminal End to 3/8" Ring Terminal End – Marked "LO" (30") (#4 Wire)
	226-3505-04	1	3/8" Ring Terminal End to 3/8" Ring Terminal End – Marked "LO" (30") (#1/0 Wire)

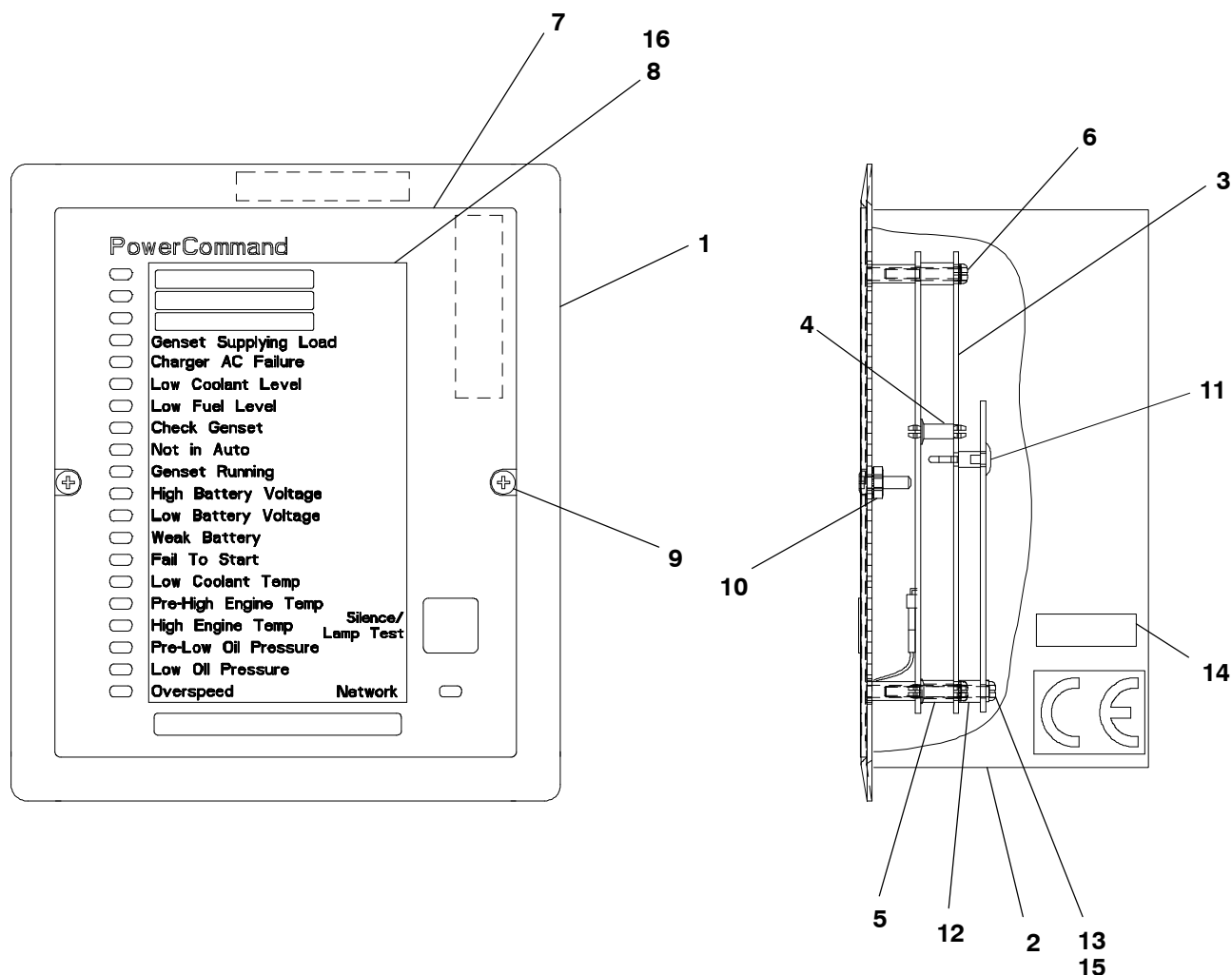
* – Includes Mounting Hardware

1.Battery Charger **15/12 Amp, 12/24 Volt**



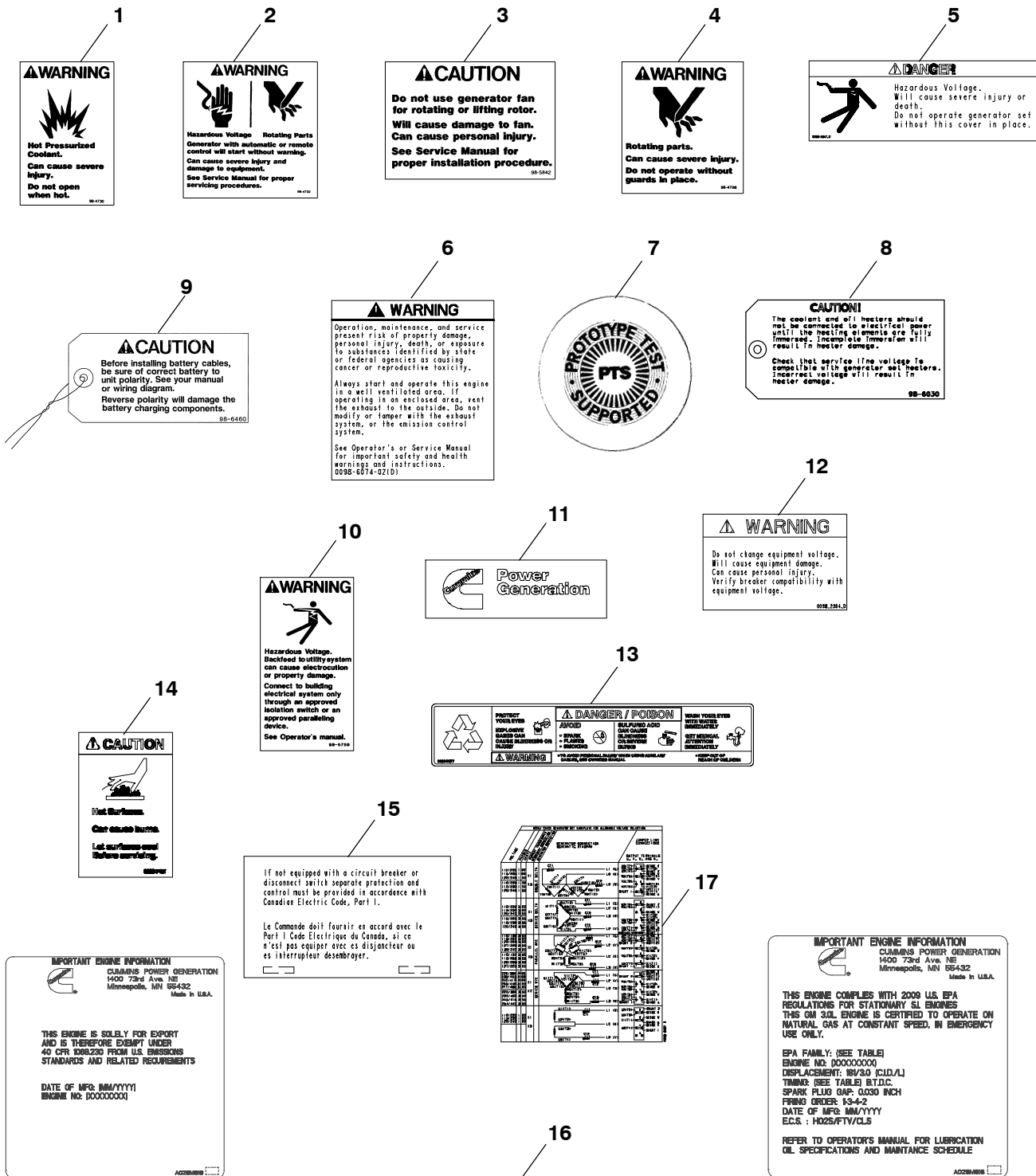
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Charger, Battery	2	193-0530	1	Sensor, Temperature – Battery
	300-5878-13	1	120, 208, 240V				
	300-5878-15	1	380V				
	300-5878-16	1	416V				
	300-5878-17	1	480V				
	300-5878-18	1	600V				

Annunciator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4148-02	1	Panel, Annunciator	9	815-0385	2	Screw, Machine – Round Head – Cross Recessed (#6-32 x 1/2)
2	301-3090	1	Box, Control – Panel With Enclosure	10	870-0183	2	Nut, Hex – W/ET (#6-32) – Panel Mounted
3	327-1521	1	Board, Printed Circuit	11	332-4118	1	Spacer, Printed Circuit Board
4	332-3332-04	3	Post, Circuit Board	12	332-4088	1	Spacer, Printed Circuit Board
5	332-4064	4	Spacer, Printed Circuit Board	13	819-1161-01	1	Screw, Pan Head – Cross Recessed (M3 x 30)
6	819-1160-01	3	Screw (M3 x 10)	14	098-6118	1	Label, Cabinet (Type 1) – Panel With Enclosure
7	300-5338	1	Panel, Membrane	15	850-2003	1	Washer, Lock – Spring (M3)
8			Label, Information	16	098-6902	1	Label
	098-8321-04	1	Chinese/Spanish				
	098-8321-01	1	English				
	098-8321-03	1	French				

Miscellaneous Labels



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Miscellaneous Labels

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-4730	1	Label, Warning	10	098-5759	1	Label, Warning
2	098-4732	2	Label, Warning	11	098-7902-03	3	Label, Logo (White)
3	098-5842	1	Label, Caution	12	098-2304	1	Label, Warning
4	098-4798	1	Label, Warning	13	098-7877	1	Label, Warning – Battery
5	098-5347	3	Label, Danger	14	098-7451	3	Label, Caution
6	098-6074-02	1	Label, Warning	15	098-8445	1	Label, Information
7	098-4500	2	Label, Prototype	16	098-8220	2	Label, Information (White)
8	098-6030	1	Tag, Caution	17	098-8037	1	Label, Information
9	098-6460	1	Tag, Battery				

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Numerical Index

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