

Parts Manual

Generator Set

with PowerCommand[®] 2100 Control

GGHG (Spec E–N)

GGHH (Spec E–N)

GGHJ (Spec A)

MODEL IDENTIFICATION

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

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

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

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

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



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



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



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

PRODUCT SAFETY PRECAUTIONS



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



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



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



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

Introduction

This catalog applies to Cummins Power Generation Generator Models GGHG, GGHH and GGHJ 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.

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

*** For any parts not listed, please contact Northern Power Products (651-621-2931)**

Replacement Engine

Cummins Power Generation Generator Model	Ford Engine Model
GGHG, GGHH, GGHJ	WSG1068-6005-A

Generator Set Data Table

Model and Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
85GGHG	85,000	#	60	4,6,12	1 or 3	12VDC
75GGHH	75,000	#	50	4,6,12	1 or 3	12VDC
100GGHH	100,000	#	60	4,6,12	1 or 3	12VDC
125GGHJ	125,000	#	60	4,6,12	1 or 3	12VDC

– Broad range reconnectible

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Abbreviations

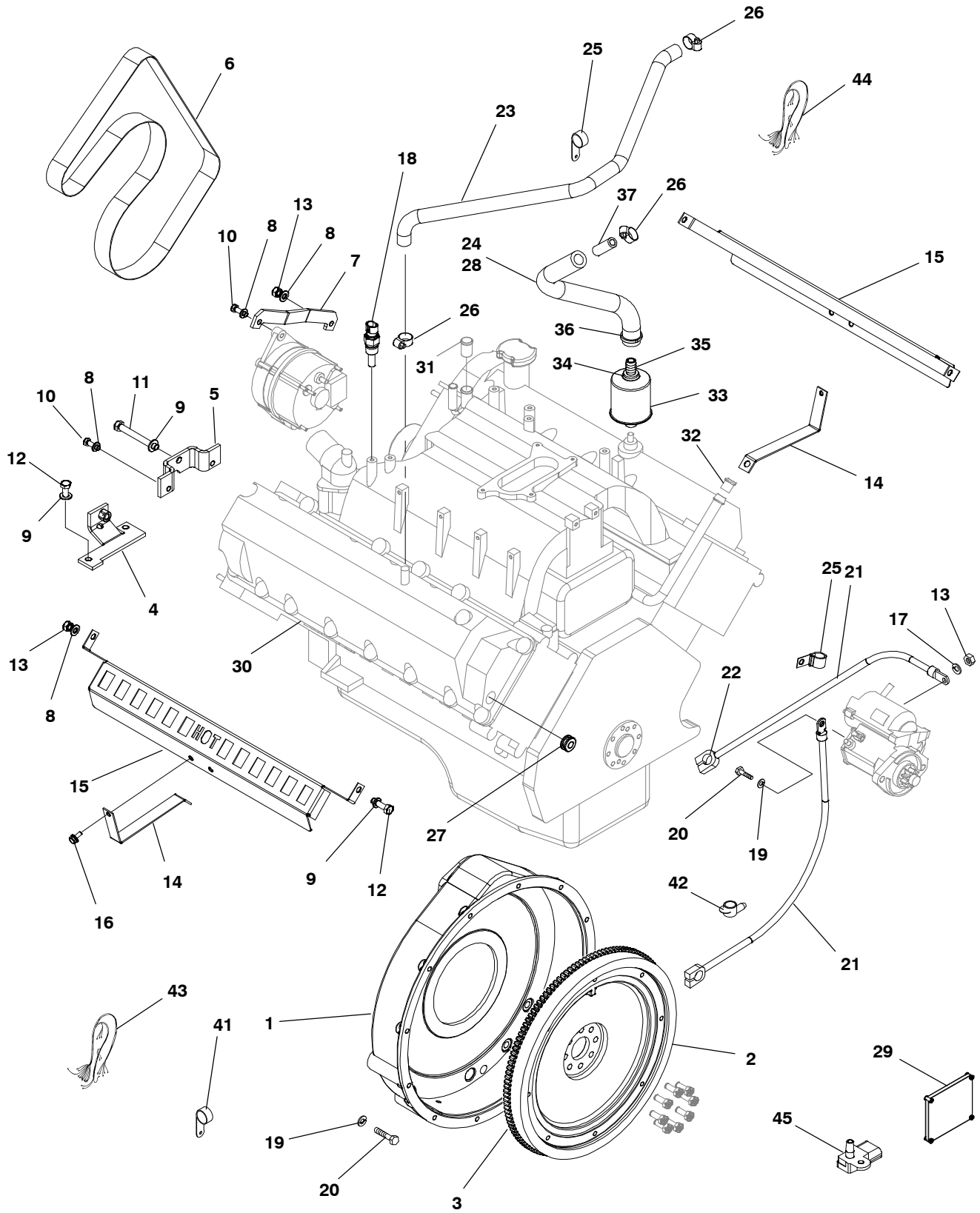
Some of the following abbreviations may be used throughout this Parts Catalog:

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

Paint and Thread Sealant

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Onan Green Enamel (Non-Metallic)		518-0347	-	Sealant, Thread
	525-0305	-	12 oz. Pressurized Spray Can				
	525-0306	-	Quart Can				
	525-0304	-	Gallon Can				
	518-0601	-	Sealant, Thread (6 ml Tube)				

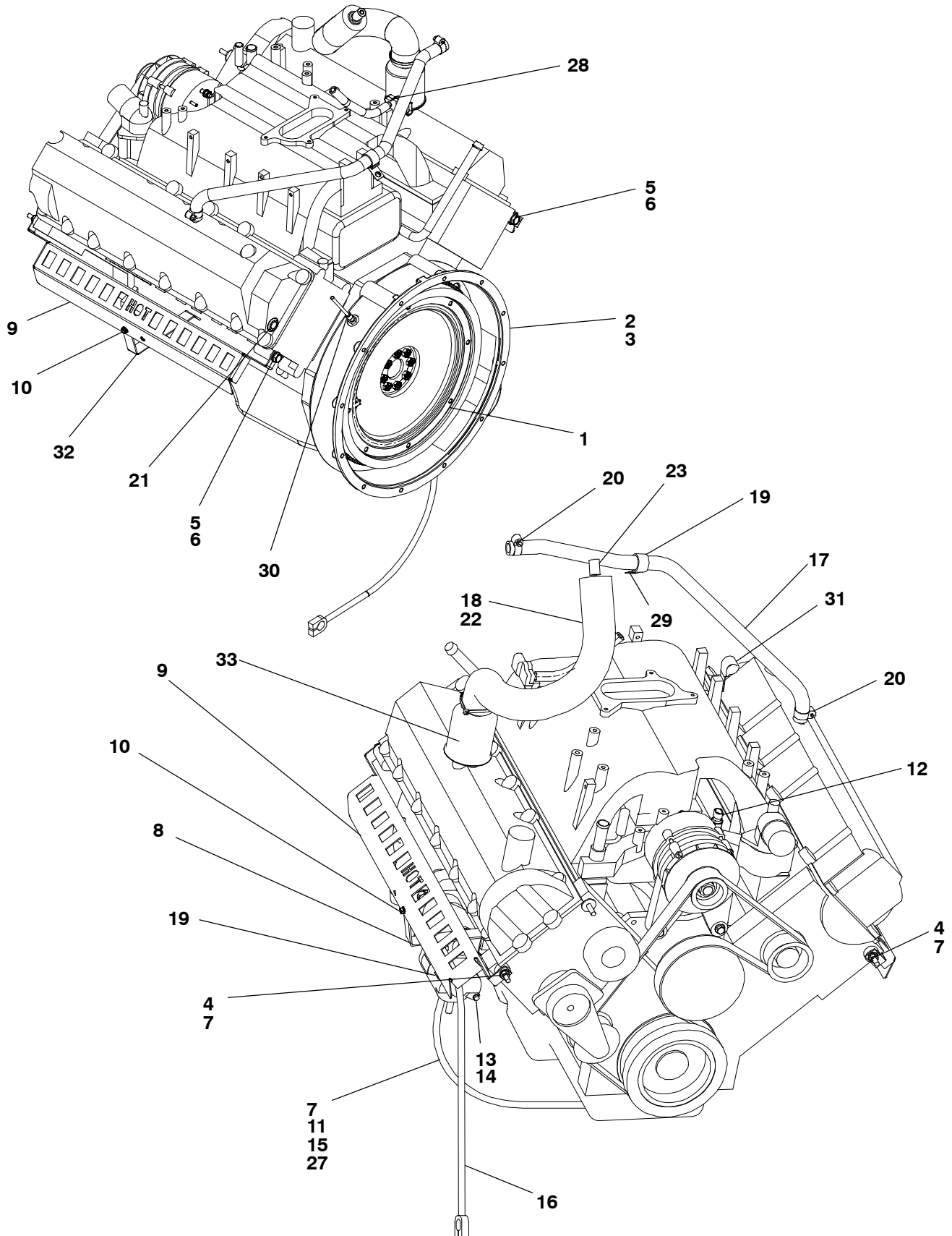
External Engine Parts GGHG/GGHH (Spec E)



External Engine Parts GGHG/GGHH (Spec E)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	100-3848	1	Engine, Spark Ignited	24	503-2233	1	Hose, Crank Case – Vent
1	231-0394-02	1	Adapter, Generator	25	327-0923	2	Clamp, J
2	104-1971	1	Flywheel (Includes Ring Gear)	26	503-0183	3	Clamp, Hose
3	104-1949	1	Gear, Ring	27	508-1156	1	Grommet
4	191-2322-02	1	Bracket, Alternator – Rear	28	503-2235	1	Insulation, Hose
5	191-2280-02	1	Bracket, Alternator – Front	29	166-0890-02	1	Module, Ignition
6	511-0161-21	1	Belt, Serpentine – 6 Groove	30	110-3938	1	Cover, Rocker
7	191-2281-02	1	Bracket, Alternator	31	132-0412	1	Cap, Heater Tube (3/4")
8	526-2100	6	Washer, Flat (M8)	32	132-0331	1	Cap, Heater Tube (5/8")
9	526-2120	5	Washer, Flat (M10)	33	123-2176	1	Separator, Oil
10	718-1037	3	Screw, Cap – Hex Head (M8 x 1.25 x 25)	34	508-1161	1	Grommet
11	800-2097	1	Screw, Cap – Hex Head (M10 x 1.5 x 80)	35	505-1601-02	1	Fitting, Hose
12	718-1054	4	Screw, Cap – Hex Head (M10 x 1.5 x 35)	36	332-0941	1	Tie, Cable
13	750-1006	5	Nut, Hex (M8 x 1.25)	37	503-2239	1	Adapter, Hose
14	154-3107-02	2	Strap, Guard – Manifold	38	130-5258	1	Thermostat – 185°F (Ford Part Number YC22-8575-BA) (Not Illustrated)
15	154-3100-02	2	Guard, Manifold	39		1	Thermostat – 192°F (Ford Part Number YC22-8575-AA) (Optional) (Not Illustrated)
16	821-6002-02	3	Screw, Hex Head (M6 x 1.0 x 12)	40	167-1639	A/R	Plug, Spark (Ford Part Number AGSF-22-FM1) (.035 Gap) (Not Illustrated)
17	850-2008	2	Washer, Lock – Split (M8)	41	518-0702	2	Clamp, J
18	193-0529-01	1	Sensor, Temperature	42	416-1084	1	Boot, Starter – Red
19	850-2010	7	Washer, Lock – Split (M10)	43	338-4210	1	Harness, Jumper
20	800-2088	7	Screw, Cap – Hex Head (M10 x 1.5 x 35)	44	338-4335	1	Harness, Ignition
21	416-0549	2	Cable, Battery	45	193-0551-02	1	Map, Sensor
22	416-1019	1	Boot, Battery – Red				
23	503-2223	1	Hose, Breather				

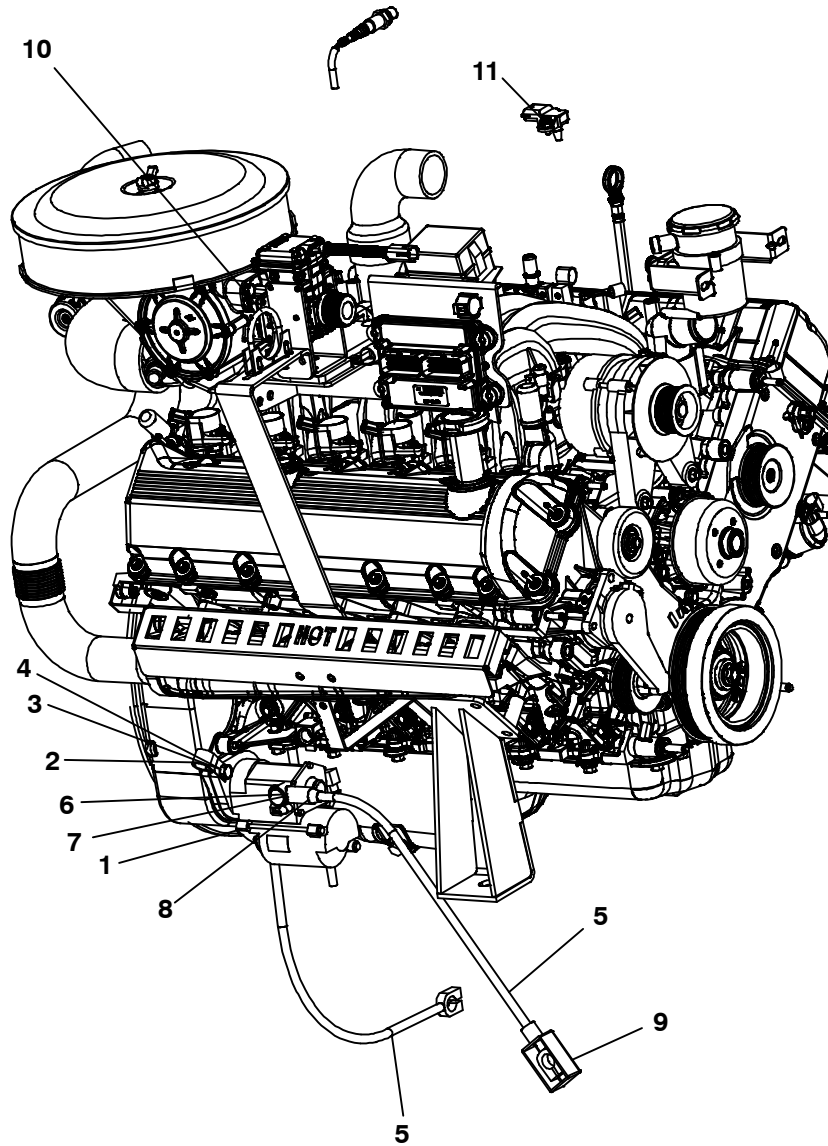
External Engine Parts GGHG/GGHH (Spec F-K)



External Engine Parts GGHG/GGHH (Spec F-K)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	231-0394-02	1	Adapter, Generator	21	508-1156	1	Grommet
2	104-1971	1	Flywheel (Includes Ring Gear)	22	503-2235	1	Insulation, Hose
3	104-1949	1	Gear, Ring	23	503-2239	1	Adapter, Hose
4	526-2100	2	Washer, Flat (M8)	24	130-5258	1	Thermostat – 185°F (Ford Part Number YC22-8575-BA) (Not Illustrated)
5	526-2120	2	Washer, Flat (M10)	25		1	Thermostat – 192°F (Ford Part Number YC22-8575-AA) (Optional) (Not Illustrated)
6	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 35)				
7	750-1006	2	Nut, Hex (M8 x 1.25)	26	167-1639	A/R	Plug, Spark (Ford Part Number AGSF-22-FM1) (.035 Gap) (Not Illustrated)
8	154-3107-02	1	Strap, Guard – Manifold				
9	154-3100-02	2	Guard, Manifold	27	416-1084	1	Boot, Starter – Red
10	821-6002-02	3	Screw, Hex Head (M6 x 1.0 x 12)	28	193-0551-02	1	Map, Sensor
11	850-2008	2	Washer, Lock – Split (M8)	29	821-6002-04	1	Screw, Hex Head (M6 x 1 x 20)
12	193-0529-01	1	Sensor, Temperature	30	150-2651	1	Pick-Up, Magnetic
13	850-2010	7	Washer, Lock – Split (M10)	31	332-2921	1	Clamp, J
14	800-2088	7	Screw, Cap – Hex Head (M10 x 1.5 x 35)	32	154-3272-02	1	Strap, Guard – Manifold
15	416-0549	2	Cable, Battery	33	123-2248	1	Separator, Oil
16	416-1019	1	Boot, Battery – Red	34	191-2213	1	Starter, Electric (Not Illustrated)
17	503-2223	1	Hose, Breather	35	193-0499	1	Sensor, Oxygen (Shipped Loose)
18	503-2233	1	Hose, Crank Case – Vent				
19	327-0923	2	Clamp, J				
20	503-0183	3	Clamp, Hose				

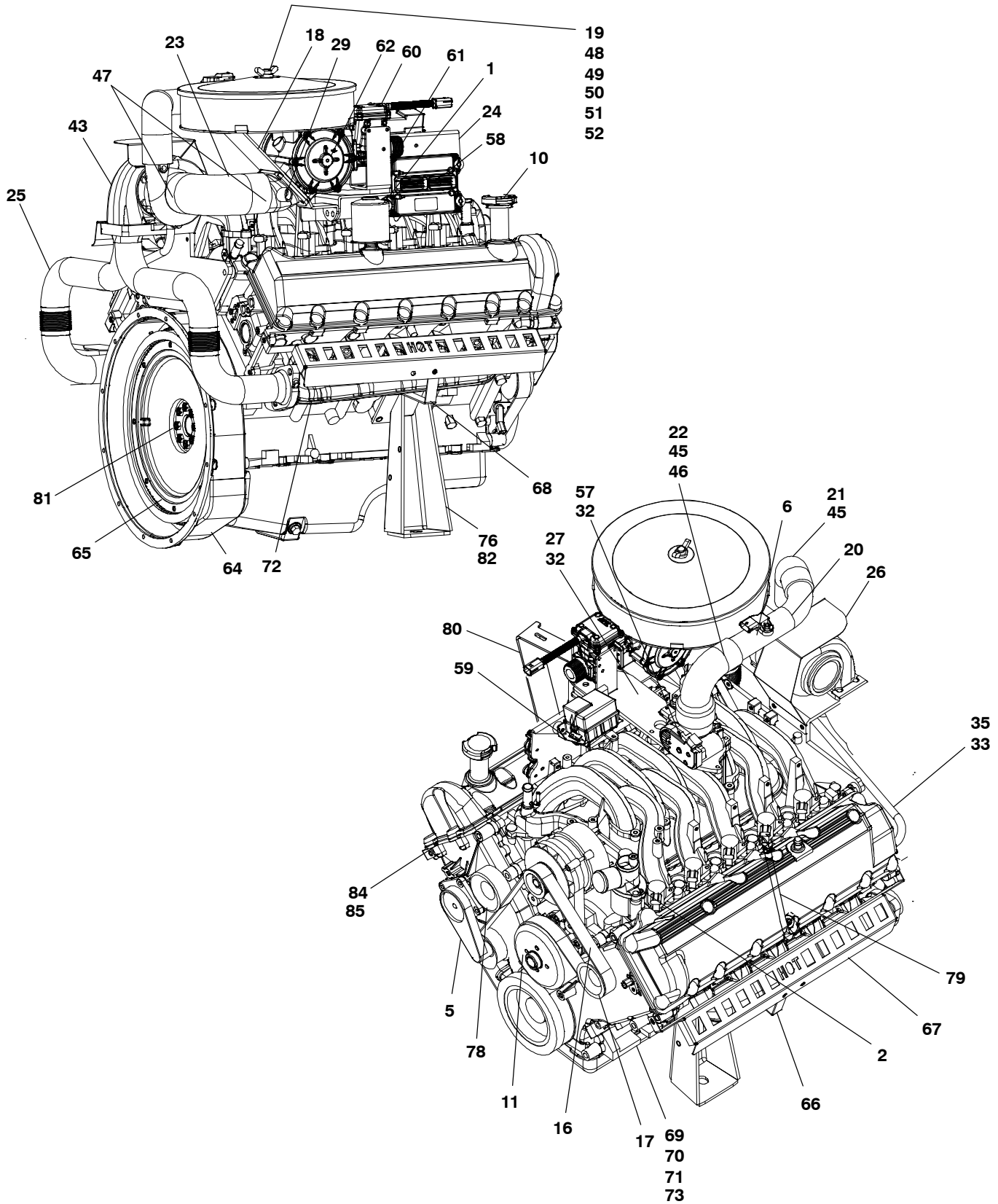
External Engine Parts GGHG/GGHH (Begin Spec L)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-2213	1	Starter, Electric	7	860-2008	1	Nut
2	327-0923	2	Clamp, J	8	416-1084	1	Boot, Starter
3	800-2088	2	Screw, Hex Head	9	416-1019	1	Boot, Battery - Red
4	850-2010	2	Washer, Lock	10	0155-2548	1	Clamp
5	416-0549	2	Cable, Electrical	11	0821-2033	1	Screw, Flange Head Lock
6	850-2008	1	Washer, Lock				

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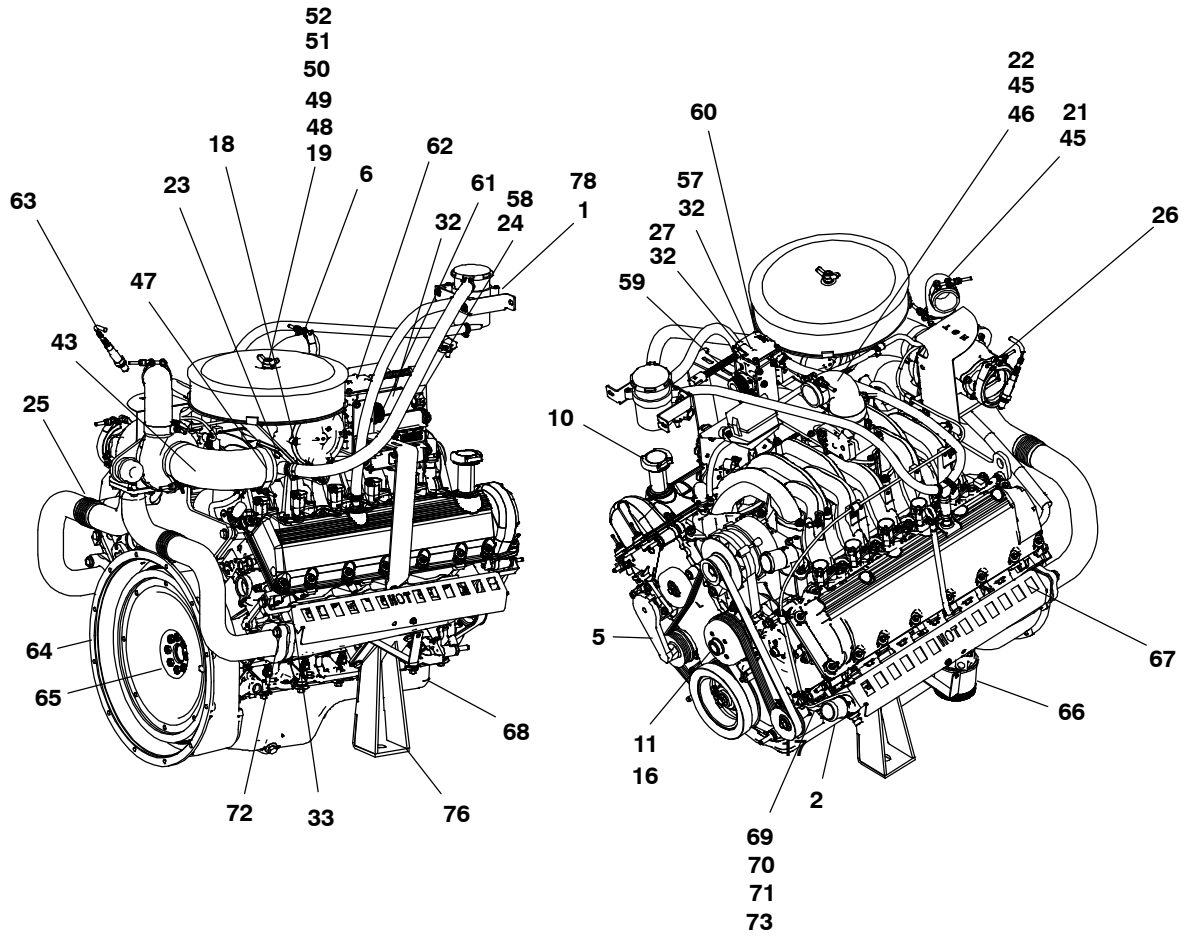
Engine Service Parts GGHG/GGHH (Begin Spec L)



Engine Service Parts **GGHG/GGHH (Begin Spec L)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Engine, Spark Ignited	44	A034V214	1	Plug (1/8")
	A030Y219	1	(Spec L-M)	45	A034V215	3	Clamp, T-Bolt (2-1/2")
	A047Z904	1	(Spec N)	46	A034V216	1	Clamp, T-Bolt (3-1/4")
1	123-2248	1	Separator, Oil	47	A034V217	2	Clamp, T-Bolt (3-1/2")
2	130-6350	1	Housing, Thermostat	48	A034V218	1	Filter, Air (14" x 3")
3	A034V038	1	Grommet	49	A034V219	1	Nut, Wing (3/8-16")
4	A034V042	1	Alternator	50	A034V287	1	Nut, Coupler (3/8-16" x 1-3/4")
5	A034V046	1	Tensioner	51	A034V220	1	Rod, Threaded (3/8-16" x 3-1/2")
6	A034V076	2	Sensor, Map - Turbo	52	A034V226	1	Washer, Bonded Rubber (3/8")
7	A034V050	3	Clamp, Hose	53	A034V238	6	Clamp, P (3/8")
8	A034V052	3	Clamp, Hose	54	A034V240	2	Clamp, P (1/2")
9	A034V055	10	Plug, Spark	55	A034V241	3	Clamp, P (7/8")
10	A034V056	1	Cap, Oil	56	A034X360	2	Cap, Cover
11	A034V060	1	Pulley - Fan	57	A034V308	1	Body, Electronic Throttle - Assy
12	A034V061	1	Cap, Hose (5/8")	58	A034V312	1	ECM
13	A034V062	1	Cap, Hose (3/4")	59	A034V227	2	Isolator, Fuse Block Vibration
14	A034V063	1	Pulley, Alternator	60	A034V314	1	EPR
15	A034V074	1	Bracket, Alternator	61	A034V242	1	Fitting, EPR Inlet
16	A034V077	1	Belt, V-10	62	A034V245	1	Mixer
17	A034V256	1	Idler	63	A034V246	1	Sensor, Oxygen (Shipped Loose)
18	A034V085	1	Mixer, Support	64	231-0394-02	1	Adapter, Alternator
19	A034V086	1	Base, Air Cleaner	65	104-1971	1	Flywheel, Engine
20	A034V258	1	Pipe, Turbo-To-Throttle	66	154-3107-02	1	Strap, Guard
21	A034V259	1	Elbow - 90° (2" ID)	67	154-3100-02	2	Guard, Manifold
22	A034V269	1	Elbow, Reducer - 90° (2-3/4" To 2")	68	154-3272-02	1	Strap, Guard
23	A034V270	1	Hose, Mixer Outlet-To-Turbo	69	122-0837	1	Adapter, Oil Filter
24	A034V090	1	Bracket, ECM	70	122-0838-02	1	Stud, Oil Filter
25	A034V099	1	Y-Pipe, Exhaust	71	A028X493	1	Sender, Oil Pressure
26	A034V123	1	Shield, Heat - Turbonetics Turbo	72	154-3094	2	Manifold, Exhaust
27	A034V125	1	Plate, Throttle Mounting	73	502-1240	1	Fitting
28	A034V127	1	Bracket, Turbo	74	127-0441	1	Tube, Turbo Feed
29	A034V131	1	Elbow, Air Horn	75	A034X359	1	Clamp, V-Band (3")
30	A034V134	1	Gasket, Throttle	76	403-7073-02	2	Feet, Engine Front Mounting
31	A034V143	1	Gasket, Air Horn Elbow	77	EX00023	2	Gasket Set, Exhaust (Complete Engine Set) - Ford Part Number (Not Shown)
32	A034V150	1	Gasket, Throttle Mounting Plate-To-Intake	78	0512-0250	1	Pulley (Smooth Idler) (Spec N)
33	A034V151	1	Gasket, V10 Turbo Oil Drain	79	0123-2148	1	Indicator
34	A034V208	1	Plug (1/4")	80	A042R651	1	Bracket, Fuel System Support (Spec N)
35	A034V209	1	Drain, V10 Turbo Oil	81	0104-1974	8	Adapter, Oil Filter (Spec N)
36	A034V210	1	Harness, Fuel System	82	A041S261	2	Foot, V10 Front Mounting (Spec N)
37	A034V277	1	Elbow, Barb - 90° (1/4" x 1/2")	83	A034V211	1	Cap, Diagnostic
38	A034V212	2	Hose, Fuel (1/2")	84	A040X265	2	Cap, Hose (1/4 inch)
39	A034V279	1	Hose, Oil Separator To Air Horn (3/4") 6.5" Length	85	A040Y408	2	Clamp, Hose (1/4 inch) (Spec N)
40	A034V280	1	Barb, Hose - 90° (3/4" x 3/4")				
41	A034V282	1	Barb - 45° (1/2" x 3/4")				
42	A034V284	1	Elbow - 90° (1/8" x 1/4")				
43	A034V213	1	Turbocharger				

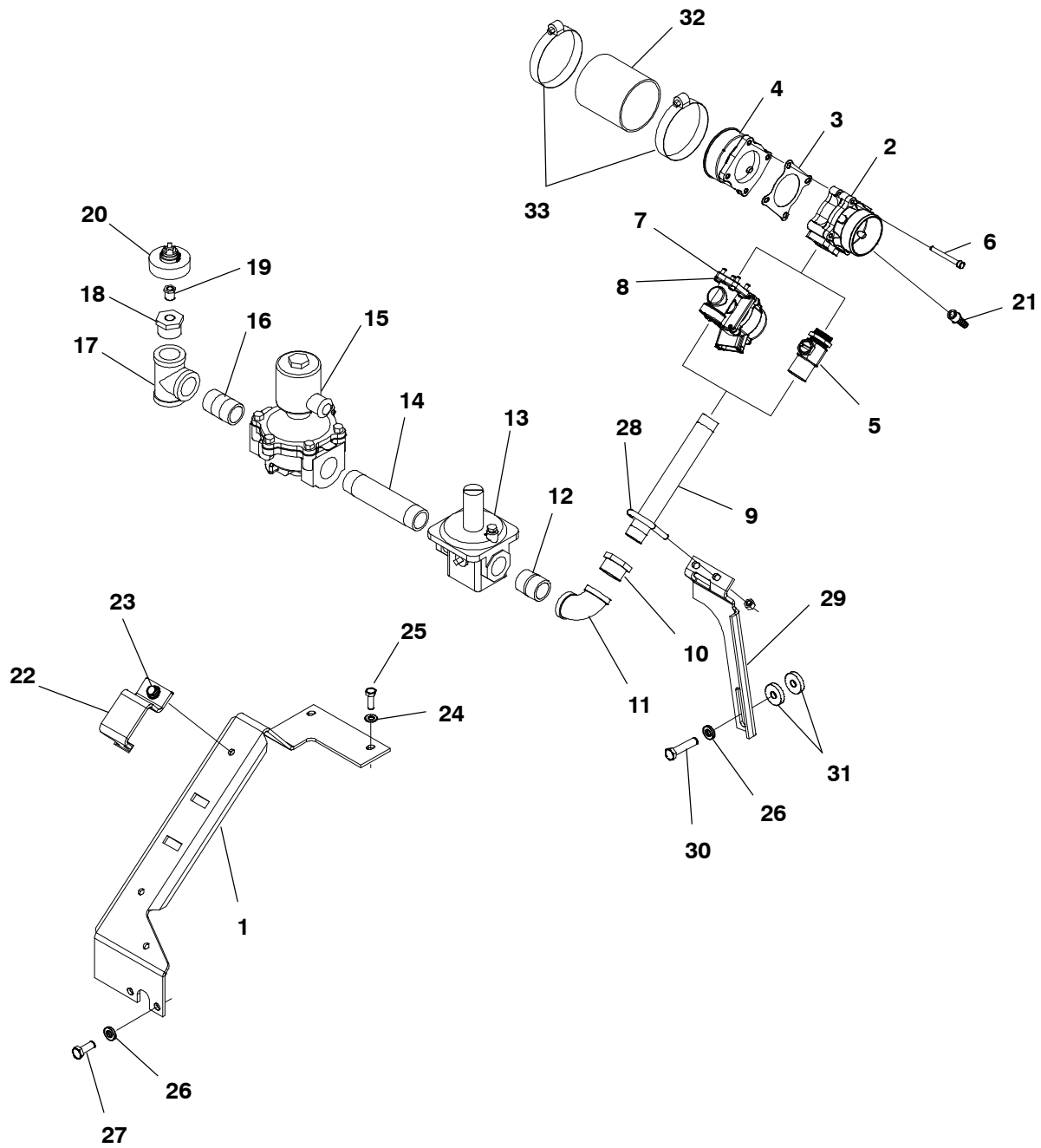
Engine Service Parts GGHJ (Spec A)



Engine Service Parts GGHJ (Spec A)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	A041C267	1	Engine, Spark Ignited	40	A034V280	1	Barb, Hose – 90° (3/4" x 3/4")
1	123-2248	1	Separator, Oil	41	A034V282	1	Barb – 45° (1/2" x 3/4")
2	130-6350	1	Housing, Thermostat	42	A034V284	1	Elbow – 90° (1/8" x 1/4")
3	A034V038	1	Grommet	43	A043C852	1	Turbocharger
4	A034V042	1	Alternator	44	A034V214	1	Plug (1/8")
5	A034V046	1	Tensioner	45	A034V215	3	Clamp, T-Bolt (2-1/2")
6	A034V076	2	Sensor, Map – Turbo	46	A034V216	1	Clamp, T-Bolt (3-1/4")
7	A034V050	1	Clamp, Hose	47	A034V217	2	Clamp, T-Bolt (3-1/2")
8	A034V052	3	Clamp, Hose	48	140-3151	1	Filter, Air (14" x 3")
9	A034V055	10	Plug, Spark	49	A034V219	1	Nut, Wing (3/8-16")
10	A034V056	1	Cap, Oil	50	A034V287	1	Nut, Coupler (3/8-16" x 1-3/4")
11	A043C847	1	Pulley – Fan	51	A034V220	1	Rod, Threaded (3/8-16" x 3-1/2")
12	A034V061	1	Cap, Hose (5/8")	52	A034V226	1	Washer, Bonded Rubber (3/8")
13	A034V062	1	Cap, Hose (3/4")	53	A034V238	6	Clamp, P (3/8")
14	A034V063	1	Pulley, Alternator	54	A034V240	2	Clamp, P (1/2")
15	A034V074	1	Bracket, Alternator	55	A034V241	3	Clamp, P (7/8")
16	A043C849	1	Belt, V-10	56	A034X360	2	Cap, Cover
17	A034V256	1	Idler	57	A034V308	1	Body, Electronic Throttle – Assy
18	A034V085	1	Mixer, Support	58	A041F527	1	ECM
19	A034V086	1	Base, Air Cleaner	59	A034V227	2	Isolator, Fuse Block Vibration
20	A034V258	1	Pipe, Turbo-To-Throttle	60	A034V314	1	EPR
21	A034V259	1	Elbow – 90° (2" ID)	61	A034V242	1	Fitting, EPR Inlet
22	A034V269	1	Elbow, Reducer – 90° (2-3/4" To 2")	62	A034V245	1	Mixer
23	3X3-90	1	Hose, Mixer Outlet-To-Turbo	63	A034V246	1	Sensor, Oxygen (Shipped Loose)
24	A034V090	1	Bracket, ECM	64	231-0394-02	1	Adapter, Alternator
25	A034C850	1	Y-Pipe, Exhaust	65	104-1971	1	Flywheel, Engine
26	EX00027	1	Shield, Heat – Turbonetics Turbo	66	154-3107-02	1	Strap, Guard
27	A034V125	1	Plate, Throttle Mounting	67	154-3100-02	2	Guard, Manifold
28	A034V127	1	Bracket, Turbo	68	154-3272-02	1	Strap, Guard
29	A034V131	1	Elbow, Air Horn	69	YC3Z-6881-BA	1	Adapter, Oil Filter
30	A034V134	1	Gasket, Throttle	70	122-0838-02	1	Stud, Oil Filter
31	A034V143	1	Gasket, Air Horn Elbow	71	A028X493	1	Sender, Oil Pressure
32	A034V150	1	Gasket, Throttle Mounting Plate-To-Intake	72	154-3094	2	Manifold, Exhaust
33	A034V151	1	Gasket, V10 Turbo Oil Drain	73	502-1240	1	Fitting
34	A034V208	1	Plug (1/4")	74	127-0441	1	Tube, Turbo Feed
35	LU00001	1	Drain, V10 Turbo Oil	75	A034X359	1	Clamp, V-Band (3")
36	A034V210	1	Harness, Fuel System	76	403-7073-02	2	Feet, Engine Front Mounting
37	A034V277	1	Elbow, Barb – 90° (1/4" x 1/2")	77	EX00023	2	Gasket Set, Exhaust (Complete Engine Set) – Ford Part Number (Not Shown)
38	A034V212	2	Hose, Fuel (1/2")				
39	CB00006	1	Hose, Oil Separator To Air Horn (3/4") 28.5" Length	78	A043C853	1	Filter Assy

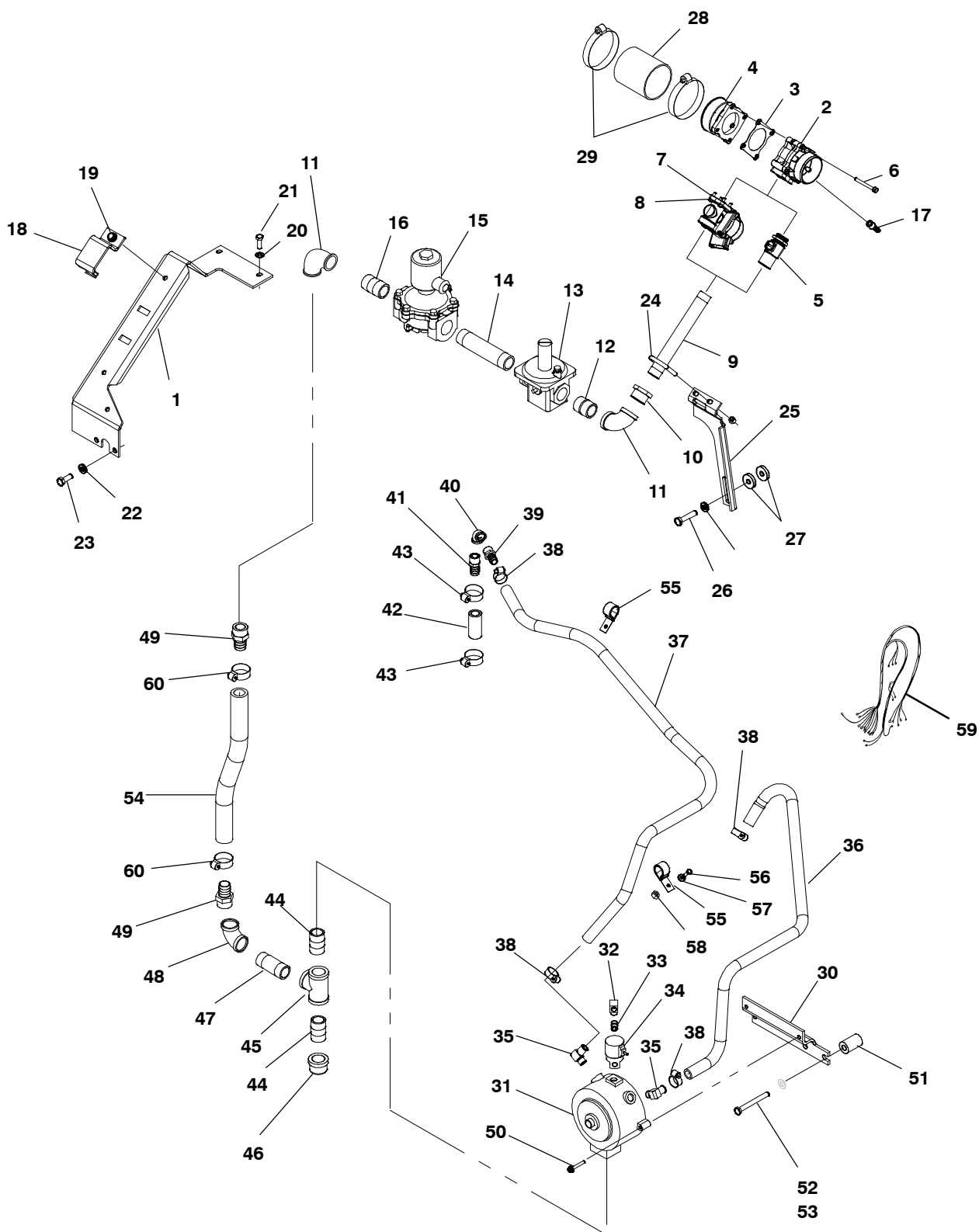
Fuel System
Natural Gas / Propane Vapor
GGHG/GGHH (Spec E)



Fuel System
Natural Gas / Propane Vapor
GGHG/GGHH (Spec E)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1164-02	1	Bracket, Fuel System Mounting	18	505-0802	1	Bushing, Reducer (1.00 x 1/4) – With Low Pressure Switch
2	148-1200-02	1	Mixer – ITB	19	505-0007	1	Bushing, Reducer (1/4 x 1/8) – With Low Pressure Switch
3	145-0813	1	Gasket, Throttle Body	20	309-0669-01	1	Switch, Low Pressure
4	148-1237	1	Adapter, Mixer	21	502-1494	1	Connector, Hose
5	504-0210	1	Valve, Fuel – Manual	22	148-1090	1	Clamp, Fuel System (1.00)
6	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	23	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)
7	148-1241	1	Gasket, Mixer – With Automatic Fuel Valve	24	526-2100	2	Washer, Flat (M8)
8	802-2539	4	Screw, Cap – Socket Head (M5 x 0.8 x 17) – With Automatic Fuel Valve	25	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)
9	505-0438	1	Nipple, Pipe (3/4 x 8.00)	26	526-0174	3	Washer, Flat
10	505-0129	1	Bushing, Reducer (1 x 3/4)	27	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
11	505-0041	1	Elbow, Pipe	28	155-1256	1	Clamp, Muffler (1.50")
12	505-0004	1	Nipple, Pipe (1 x 1.50)	29	148-1247-02	1	Bracket, Fuel System – Support
13	148-1202	1	Regulator, Fuel	30	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
14	505-0357	1	Nipple, Pipe (1 x 5.50)	31	526-0077	2	Washer, Flat (3/8)
15	307-2890	1	Valve, Solenoid	32	148-1181	1	Hose, Mixer Adapter
16	505-0107	1	Nipple, Pipe (1 x 2.00) – With Low Pressure Switch	33	503-1870-05	2	Clamp, Hose
17	505-0304	1	Tee, Pipe – With Low Pressure Switch				

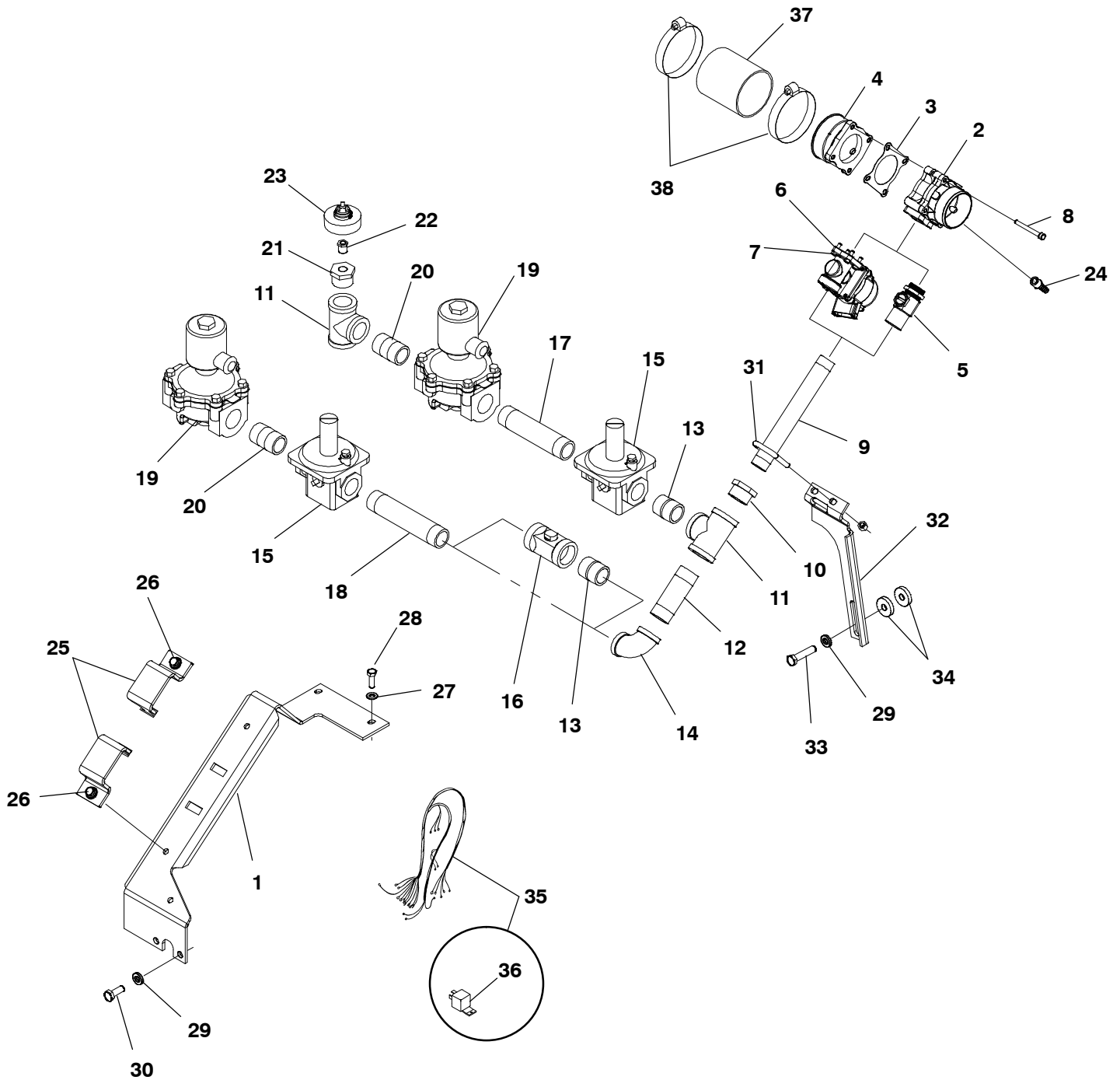
Fuel System LP Liquid GGHG/GGHH (Spec E)



**Fuel System
LP Liquid
GGHG/GGHH (Spec E)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1164-02	1	Bracket, Fuel System Mounting	31	148-1240	1	Converter
2	148-1200-02	1	Mixer – ITB	32	502-0054	1	Elbow, Street Pipe
3	145-0813	1	Gasket, Throttle Body	33	505-0099	1	Nipple, Pipe (1/4 x .88)
4	148-1237	1	Adapter, Mixer	34	307-0268	1	Valve, Solenoid
5	504-0210	1	Valve, Fuel – Manual	35	502-0942	2	Elbow, 90° Hose
6	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	36	503-2293-04	1	Hose, Coolant
7	148-1241	1	Gasket, Mixer – With Automatic Fuel Valve	37	503-2293-05	1	Hose, Coolant
8	802-2539	4	Screw, Cap – Socket Head (M5 x 0.8 x 17) – With Automatic Fuel Valve	38	503-0183	4	Clamp, Hose
9	505-0438	1	Nipple, Pipe (3/4 x 8.00)	39	502-1006	1	Connector, Hose (1/2 x 5/8)
10	505-0129	1	Bushing, Reducer (1 x 3/4)	40	505-0040	1	Elbow, Pipe
11	505-0041	2	Elbow, Pipe	41	502-0827	1	Hose, Barb
12	505-0004	1	Nipple, Pipe (1 x 1.50)	42	503-0191	–	Hose, Water – Bulk (Order by the Foot – 1 Foot Required)
13	148-1202	1	Regulator, Fuel	43	503-1870-01	2	Clamp, Hose
14	505-0357	1	Nipple, Pipe (1 x 5.50)	44	505-0107	2	Nipple, Pipe (1 x 2.00)
15	307-2890	1	Valve, Solenoid	45	505-0304	1	Tee, Pipe
16	505-0107	1	Nipple, Pipe (1 x 2.00)	46	505-0479	1	Cap, Pipe
17	502-1494	1	Connector, Hose	47	505-0087	1	Nipple, Pipe (1 x 3.00)
18	148-1090	1	Clamp, Fuel System (1.00)	48	505-0041	1	Elbow, Pipe
19	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)	49	502-1110-01	2	Connector, Hose
20	526-2100	2	Washer, Flat (M8)	50	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
21	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	51	130-3660-02	2	Spacer, Shock Absorber – UCD224 Generator
22	526-0174	3	Washer, Flat	52	718-1067	2	Screw, Cap – Hex Head (M10 x 1.5 x 90) – UCD224 Generator
23	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	53	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45) – UC274 Generator
24	155-1256	1	Clamp, Muffler (1.50")	54	503-2353-01	1	Hose, Fuel
25	148-1247-02	1	Bracket, Fuel System – Support	55	332-3196	3	Clamp, J
26	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)	56	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
27	526-0077	2	Washer, Flat (3/8)	57	526-0018	1	Washer, Flat (1/4)
28	148-1181	1	Hose, Mixer Adapter	58	750-1004	1	Nut, Hex (M6 x 1)
29	503-1870-05	2	Clamp, Hose	59	338-4395	1	Harness, Jumper
30	148-1248-02	1	Bracket, Converter	60	503-2157-02	2	Clamp, Hose

Fuel System **Natural Gas / Propane Vapor Withdrawl With Automatic Changeover** **GGHG/GGHH (Spec E)**

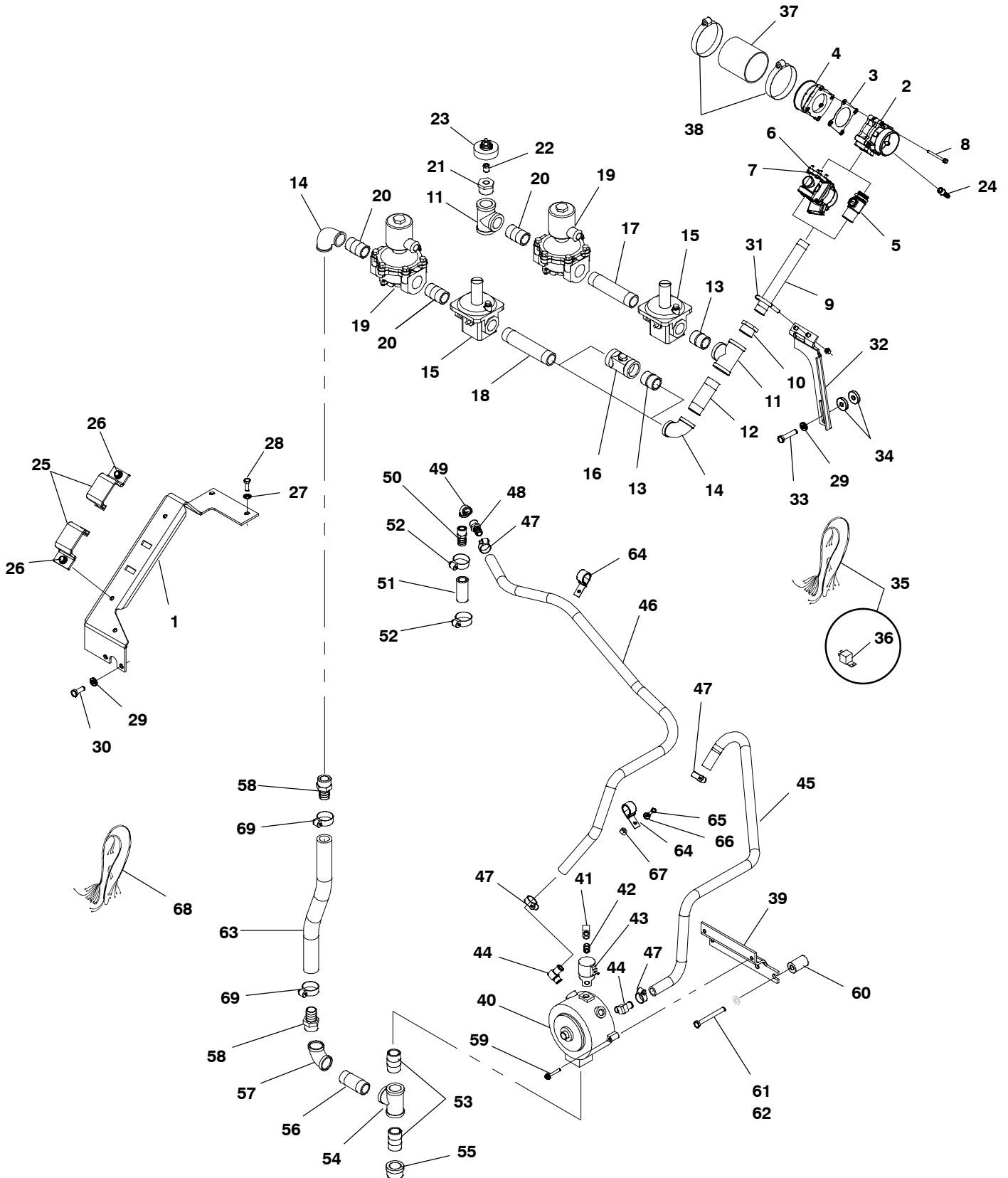


Fuel System
Natural Gas / Propane Vapor Withdrawl With Automatic Changeover
GGHG/GGHH (Spec E)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1164-02	1	Bracket, Fuel System Mounting	19	307-2890	2	Valve, Solenoid
2	148-1200-02	1	Mixer – ITB	20	505-0107	2	Nipple, Pipe (1 x 2.00)
3	145-0813	1	Gasket, Throttle Body	21	505-0802	1	Bushing, Reducer (1.00 x 1/4)
4	148-1237	1	Adapter, Mixer	22	505-0007	1	Bushing, Reducer (1/4 x 1/8)
5	504-0210	1	Valve, Fuel – Manual	23	309-0669-01	1	Switch, Low Pressure
6	148-1241	1	Gasket, Mixer – With Automatic Fuel Valve	24	502-1494	1	Connector, Hose
7	802-2539	4	Screw, Cap – Socket Head (M5 x 0.8 x 17) – With Automatic Fuel Valve	25	148-1090	2	Clamp, Fuel System (1.00)
8	802-2538	4	Screw, Cap – Socket Head	26	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)
9	505-0438	1	Nipple, Pipe (3/4 x 8.00)	27	526-2100	2	Washer, Flat (M8)
10	505-0129	1	Bushing, Reducer (1 x 3/4)	28	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)
11	505-0304	2	Tee, Pipe	29	526-0174	3	Washer, Flat
12	505-0147	1	Nipple, Pipe (1 x 3.50)	30	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
13			Nipple, Pipe (1 x 1.50)	31	155-1256	1	Clamp, Muffler (1.50")
	505-0004	1	Automatic Fuel Valve	32	148-1247-02	1	Bracket, Fuel System – Support
	505-0004	2	Manual Fuel Valve	33	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
14	505-0041	1	Elbow, Pipe	34	526-0077	2	Washer, Flat (3/8)
15	148-1202	2	Regulator, Fuel	35	338-3816-01	1	Harness, Dual Fuel (Includes Relay)
16	148-0626	1	Valve, Load Adjusting – With Manual Fuel Valve	36	307-2817-01	1	Relay (12V)
17	505-0357	1	Nipple, Pipe (1 x 5.50)	37	148-1181	1	Hose, Mixer Adapter
18			Nipple, Pipe	38	503-1870-05	2	Clamp, Hose
	505-0438	1	With Automatic Fuel Valve				
	505-0090	1	With Manual Fuel Valve (1 x 6.00)				

Fuel System

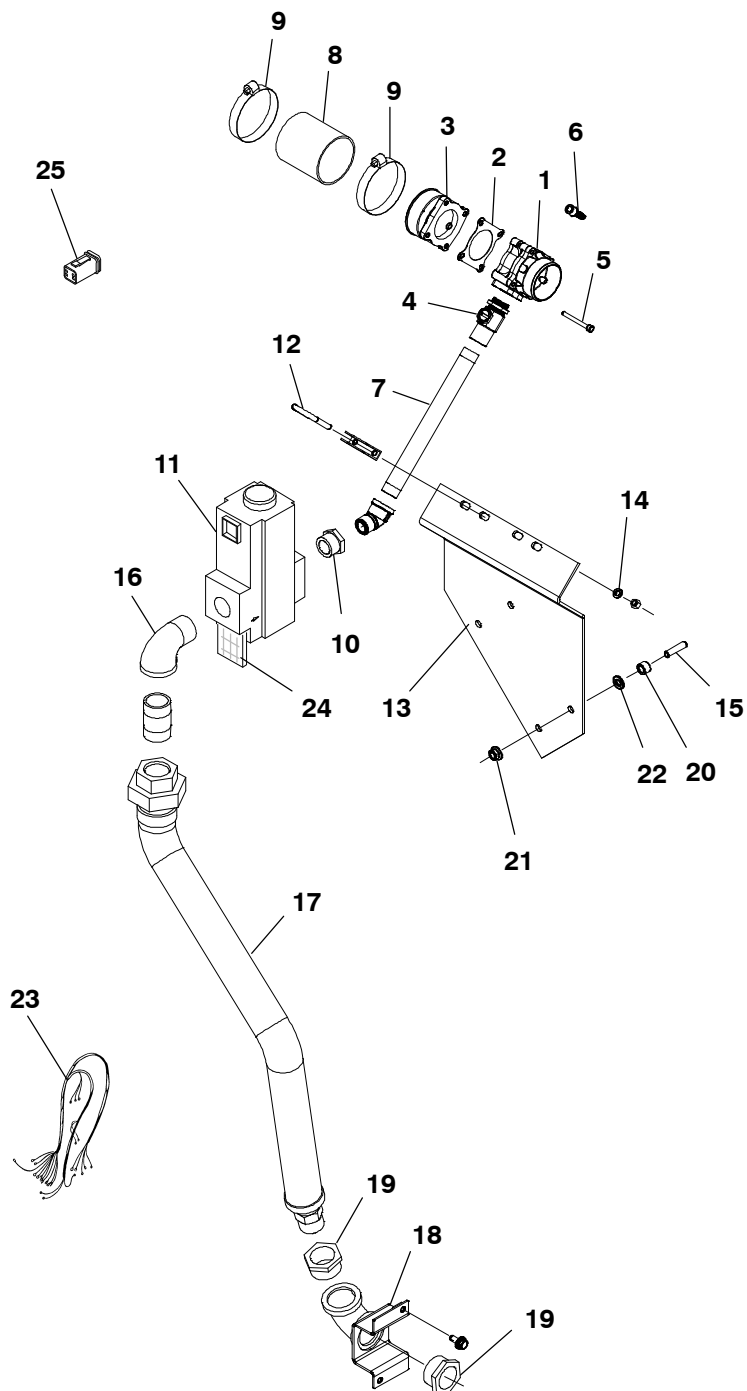
Natural Gas / Propane Liquid Withdrawl With Automatic Changeover GGHG/GGHH (Spec E)



Fuel System
Natural Gas / Propane Liquid Withdrawl With Automatic Changeover
GGHG/GGHH (Spec E)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1164-02	1	Bracket, Fuel System Mounting	34	526-0077	2	Washer, Flat (3/8)
2	148-1200-02	1	Mixer – ITB	35	338-3816-01	1	Harness, Dual Fuel (Includes Relay)
3	145-0813	1	Gasket, Throttle Body	36	307-2817-01	1	Relay (12V)
4	148-1237	1	Adapter, Mixer	37	148-1181	1	Hose, Mixer Adapter
5	504-0210	1	Valve, Fuel – Manual	38	503-1870-05	2	Clamp, Hose
6	148-1241	1	Gasket, Mixer – With Automatic Fuel Valve	39	148-1248-02	1	Bracket, Converter
7	802-2539	4	Screw, Cap – Socket Head (M5 x 0.8 x 17) – With Automatic Fuel Valve	40	148-1240	1	Converter
8	802-2538	4	Screw, Cap – Socket Head	41	502-0054	1	Elbow, Street Pipe
9	505-0438	1	Nipple, Pipe (3/4 x 8.00)	42	505-0099	1	Nipple, Pipe (1/4 x .88)
10	505-0129	1	Bushing, Reducer (1 x 3/4)	43	307-0268	1	Valve, Solenoid
11	505-0304	2	Tee, Pipe	44	502-0942	2	Elbow, 90° Hose
12	505-0147	1	Nipple, Pipe (1 x 3.50)	45	503-2293-04	1	Hose, Coolant
13			Nipple, Pipe (1 x 1.50)	46	503-2293-05	1	Hose, Coolant
	505-0004	1	Automatic Fuel Valve	47	503-0183	4	Clamp, Hose
	505-0004	2	Manual Fuel Valve	48	502-1006	1	Connector, Hose (1/2 x 5/8)
14	505-0041	2	Elbow, Pipe	49	505-0040	1	Elbow, Pipe
15	148-1202	2	Regulator, Fuel	50	502-0827	1	Hose, Barb
16	148-0626	1	Valve, Load Adjusting – With Manual Fuel Valve	51	503-0191	–	Hose, Water – Bulk (Order by the Foot – 1 Foot Required)
17	505-0357	1	Nipple, Pipe (1 x 5.50)	52	503-1870-01	2	Clamp, Hose
18			Nipple, Pipe	53	505-0107	2	Nipple, Pipe (1 x 2.00)
	505-0181	1	With Automatic Fuel Valve (1 x 10.00)	54	505-0304	1	Tee, Pipe
	505-0090	1	With Manual Fuel Valve (1 x 6.00)	55	505-0479	1	Cap, Pipe
19	307-2890	2	Valve, Solenoid	56	505-0087	1	Nipple, Pipe (1 x 3.00)
20	505-0107	3	Nipple, Pipe (1 x 2.00)	57	505-0041	1	Elbow, Pipe
21	505-0802	1	Bushing, Reducer (1.00 x 1/4)	58	502-1110-01	2	Connector, Hose
22	505-0007	1	Bushing, Reducer (1/4 x 1/8)	59	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
23	309-0669-01	1	Switch, Low Pressure	60	130-3660-02	2	Spacer, Shock Absorber – UCD224 Generator
24	502-1494	1	Connector, Hose	61	718-1067	2	Screw, Cap – Hex Head (M10 x 1.5 x 90) – UCD224 Generator
25	148-1090	2	Clamp, Fuel System (1.00)	62	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45) – UC274 Generator
26	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)	63	503-2353-03	1	Hose, Fuel
27	526-2100	2	Washer, Flat (M8)	64	332-3196	3	Clamp, J
28	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	65	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
29	526-0174	3	Washer, Flat	66	526-0018	1	Washer, Flat (1/4)
30	718-1054	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	67	750-1004	1	Nut, Hex (M6 x 1)
31	155-1256	1	Clamp, Muffler (1.50")	68	338-4115	1	Harness, Jumper
32	148-1247-02	1	Bracket, Fuel System – Support	69	503-2157-02	2	Clamp, Hose
33	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)				

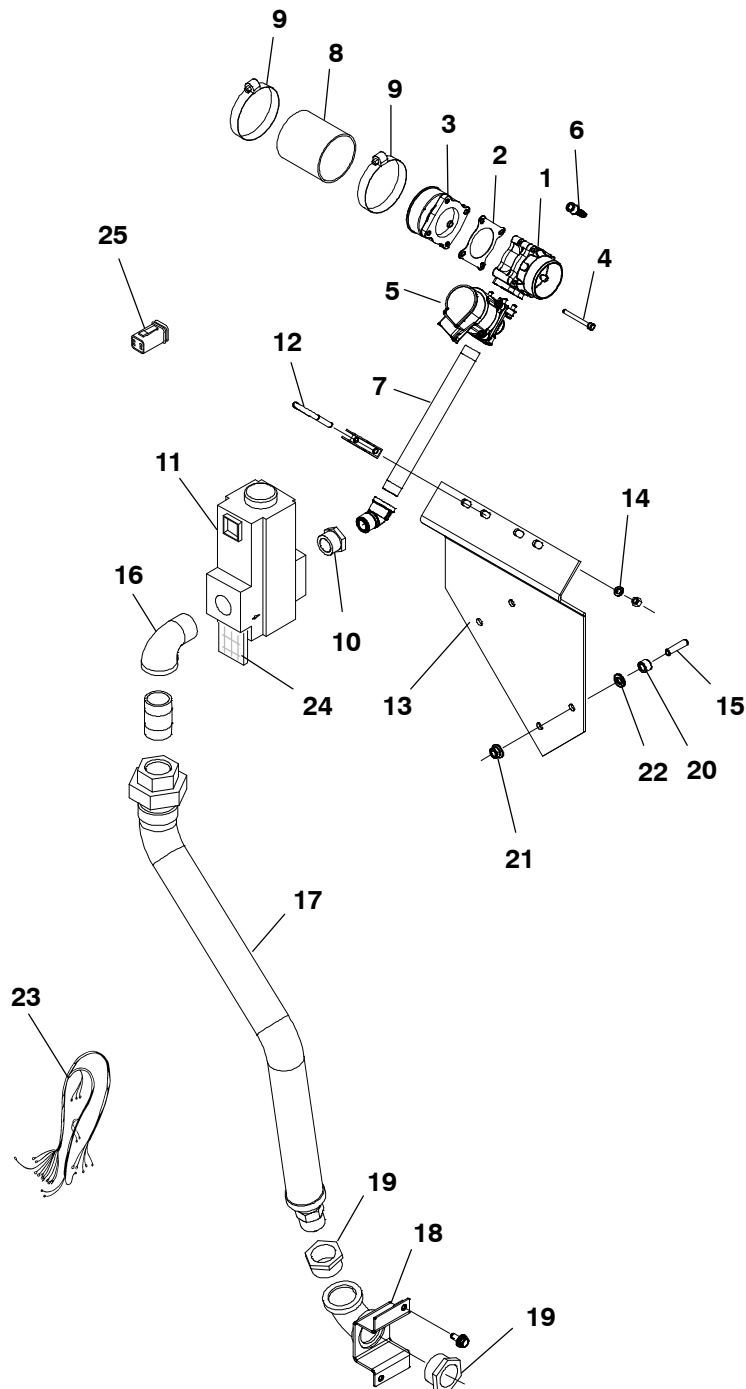
**Fuel System
Natural Gas
GGHG/GGHH (Spec F-G)**



**Fuel System
Natural Gas
GGHG/GGHH (Spec F-G)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1200-02	1	Mixer – ITB	14	526-0022	2	Washer, Flat
2	145-0813	1	Gasket, Throttle Body	15	520-1025-03	4	Stud (M10 x 1.5 x 54)
3	148-1237	1	Adapter, Mixer	16	505-0186	1	Elbow, Street – 90° (1-1/4)
4	504-0210	1	Valve, Fuel	17	501-0776-04	1	Line, Fuel – Flexible
5	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	18	512-0288-02	1	Coupling – Assembly
6	502-1494	1	Connector, Hose	19	505-0025	2	Bushing, Reducer (1-1/4 x 1-1/2)
7	505-1526	1	Nipple, Pipe (3/4 x 10.00)	20	403-4496-02	4	Spacer, Motor Mount
8	148-1181	1	Hose, Mixer Adapter	21	870-2065-04	4	Nut, Hex – Flange (M10 x 1.5)
9	503-1870-05	2	Clamp, Hose	22	526-2120	1	Washer, Flat (M10)
10	505-0129	1	Bushing, Reducer (1 x 3/4)	23	338-4838	1	Harness, Extension
11	148-1321	1	Regulator, Fuel – Dual Shutoff	24			Filter, Dungs
	504-0314	1	Solenoid, Valve – Replacement		149-2829-01	1	One Filter
12	155-1256	1	Clamp, Muffler (1.50")		149-2829-02	1	Ten Pack
13	148-1330-02	1	Bracket, Fuel System	25	338-4725-01	1	Harness, Plug – Fuel Select

**Fuel System
Natural Gas
GGHG/GGHH (Begin Spec H)**



**Fuel System
Natural Gas
GGHG/GGHH (Begin Spec H)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1200-02	1	Mixer – ITB	14	526-0022	2	Washer, Flat
2	145-0813	1	Gasket, Throttle Body	15	520-1025-03	4	Stud (M10 x 1.5 x 54)
3	148-1237	1	Adapter, Mixer	16	505-0186	1	Elbow, Street – 90° (1-1/4)
4	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	17	501-0776-04	1	Line, Fuel – Flexible
5	A034B904	1	Control	18	512-0288-02	1	Coupling – Assembly
6	502-1494	1	Connector, Hose	19	505-0025	2	Bushing, Reducer (1-1/4 x 1-1/2)
7	505-1526	1	Nipple, Pipe (3/4 x 10.00)	20	403-4496-02	4	Spacer, Motor Mount
8	148-1181	1	Hose, Mixer Adapter	21	870-2065-04	4	Nut, Hex – Flange (M10 x 1.5)
9	503-1870-05	2	Clamp, Hose	22	526-2120	1	Washer, Flat (M10)
10	505-0129	1	Bushing, Reducer (1 x 3/4)	23	338-4838	1	Harness, Extension
11	148-1321	1	Regulator, Fuel – Dual Shutoff	24			Filter, Dungs
	504-0314	1	Solenoid, Valve – Replacement		149-2829-01	1	One Filter
12	155-1256	1	Clamp, Muffler (1.50")		149-2829-02	1	Ten Pack
13	148-1330-02	1	Bracket, Fuel System	25	338-4725-01	1	Harness, Plug – Fuel Select

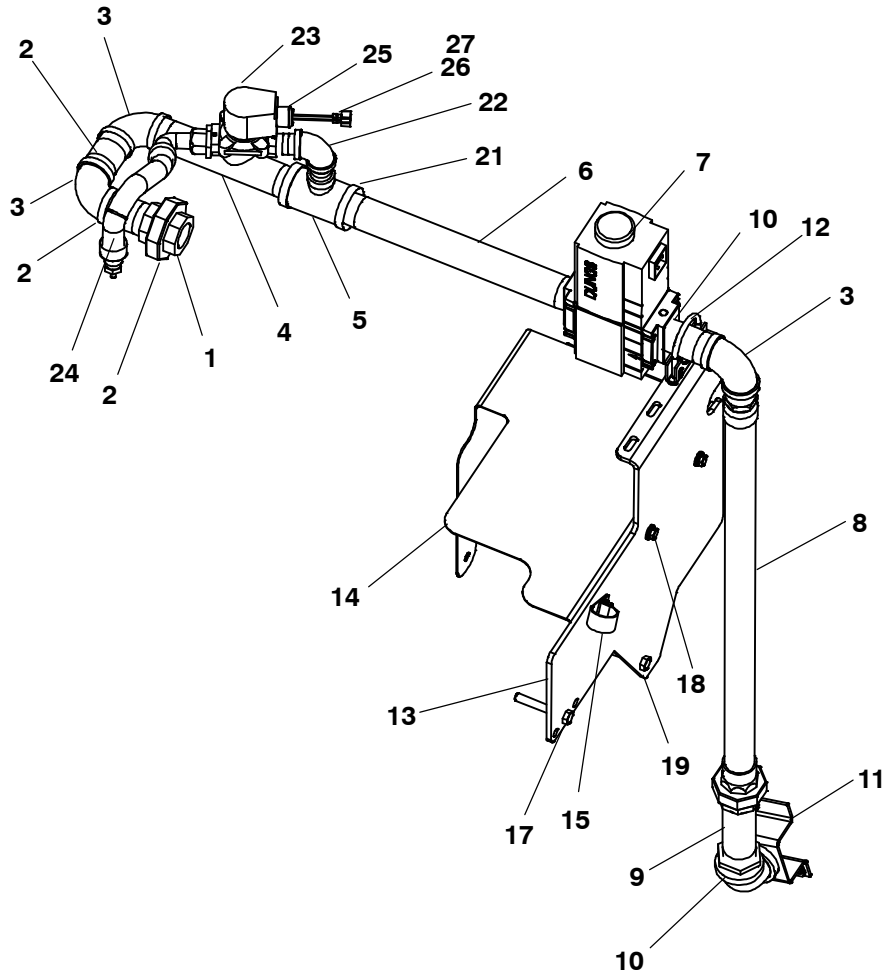
This exploded view diagram illustrates the assembly of a mechanical component, likely a pump or motor. The parts are numbered as follows:

- 1**: Main cylindrical housing or motor body.
- 2**: Internal component, possibly a rotor or stator.
- 3**: Flange or mounting plate.
- 4**: Small pin or screw.
- 5**: Small circular component, possibly a seal or gasket.
- 6**: Long, angled shaft or arm.
- 7**: Large cylindrical component, possibly a bellows or diaphragm.
- 8**: Small circular component, possibly a seal or gasket.
- 9**: Small cylindrical component, possibly a pin or bush.
- 10**: Small cylindrical component, possibly a pin or bush.
- 11**: Small cylindrical component, possibly a pin or bush.
- 12**: Large rectangular plate or base.
- 13**: Small cylindrical component, possibly a pin or bush.
- 14**: Small cylindrical component, possibly a pin or bush.
- 15**: Small cylindrical component, possibly a pin or bush.
- 16**: Small cylindrical component, possibly a pin or bush.
- 17**: Small cylindrical component, possibly a pin or bush.
- 18**: Small cylindrical component, possibly a pin or bush.
- 19**: Small cylindrical component, possibly a pin or bush.
- 20**: Small cylindrical component, possibly a pin or bush.
- 21**: Small cylindrical component, possibly a pin or bush.
- 22**: Small cylindrical component, possibly a pin or bush.
- 23**: Small cylindrical component, possibly a pin or bush.
- 24**: Small cylindrical component, possibly a pin or bush.
- 25**: Small cylindrical component, possibly a pin or bush.
- 26**: Small cylindrical component, possibly a pin or bush.
- 27**: Long, angled shaft or arm.
- 28**: Small cylindrical component, possibly a pin or bush.

**Fuel System
Natural Gas
GGHG/GGHH (Spec J-K)**

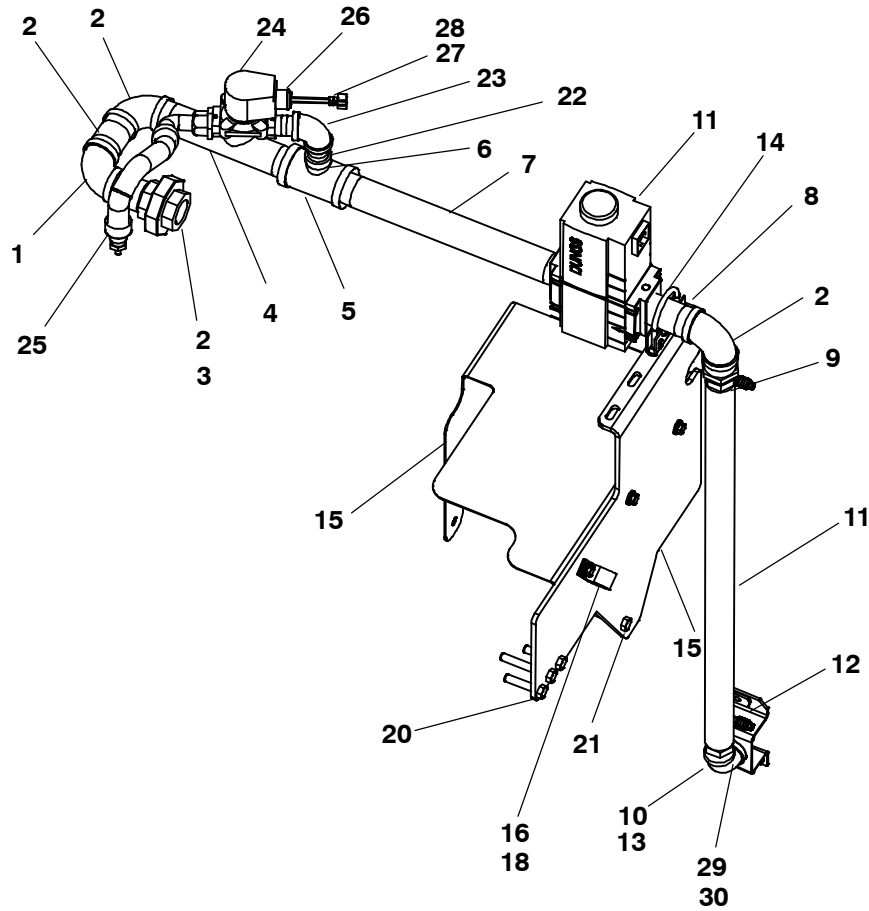
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	A034D026	1	Assy, Mixer – ITB (Includes Screws, Gasket And Parts Marked * Suggested item to replace Mixer and Control)	14	520-1025-03	4	Stud (M10 x 1.5 x 54)
				15	505-0186	1	Elbow, Street – 90° (1-1/4)
				16	512-0288-02	1	Coupling – Assembly
				17	505-0025	2	Bushing, Reducer (1-1/4 x 1-1/2)
1	148-1200-02	1	* Mixer – ITB	18	403-4496-02	4	Spacer, Motor Mount
2	145-0813	1	Gasket, Throttle Body	19	870-2065-04	4	Nut, Hex – Flange (M10 x 1.5)
3	148-1237	1	Adapter, Mixer	20	526-2120	1	Washer, Flat (M10)
4	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	21	338-4838	1	Harness, Extension
5	502-1494	1	Connector, Hose	22			Filter, Dungs
6	505-1526	1	Nipple, Pipe (3/4 x 10.00)		149-2829-01	1	One Filter
7	148-1181	1	Hose, Mixer Adapter		149-2829-02	1	Ten Pack
8	503-1870-05	2	Clamp, Hose	23	338-4725-01	1	Harness, Plug – Fuel Select
9	505-0129	1	Bushing, Reducer (1 x 3/4)	24	A034B904	1	* Control
10	A026H148	1	Regulator, Fuel – Dual Shutoff	25	505-0691	1	Elbow
	504-0314	1	Solenoid, Valve – Replacement	26	505-0092	1	Fitting, Nipple
11	155-1256	1	Clamp, Muffler (1.50")	27	501-0776-04	1	Line, Fuel
12	148-1330-02	1	Bracket, Fuel System	28	821-6007-02	2	Screw, Hex Head
13	526-0022	2	Washer, Flat				

**Fuel System
Natural Gas
GGHJ (Spec A)**



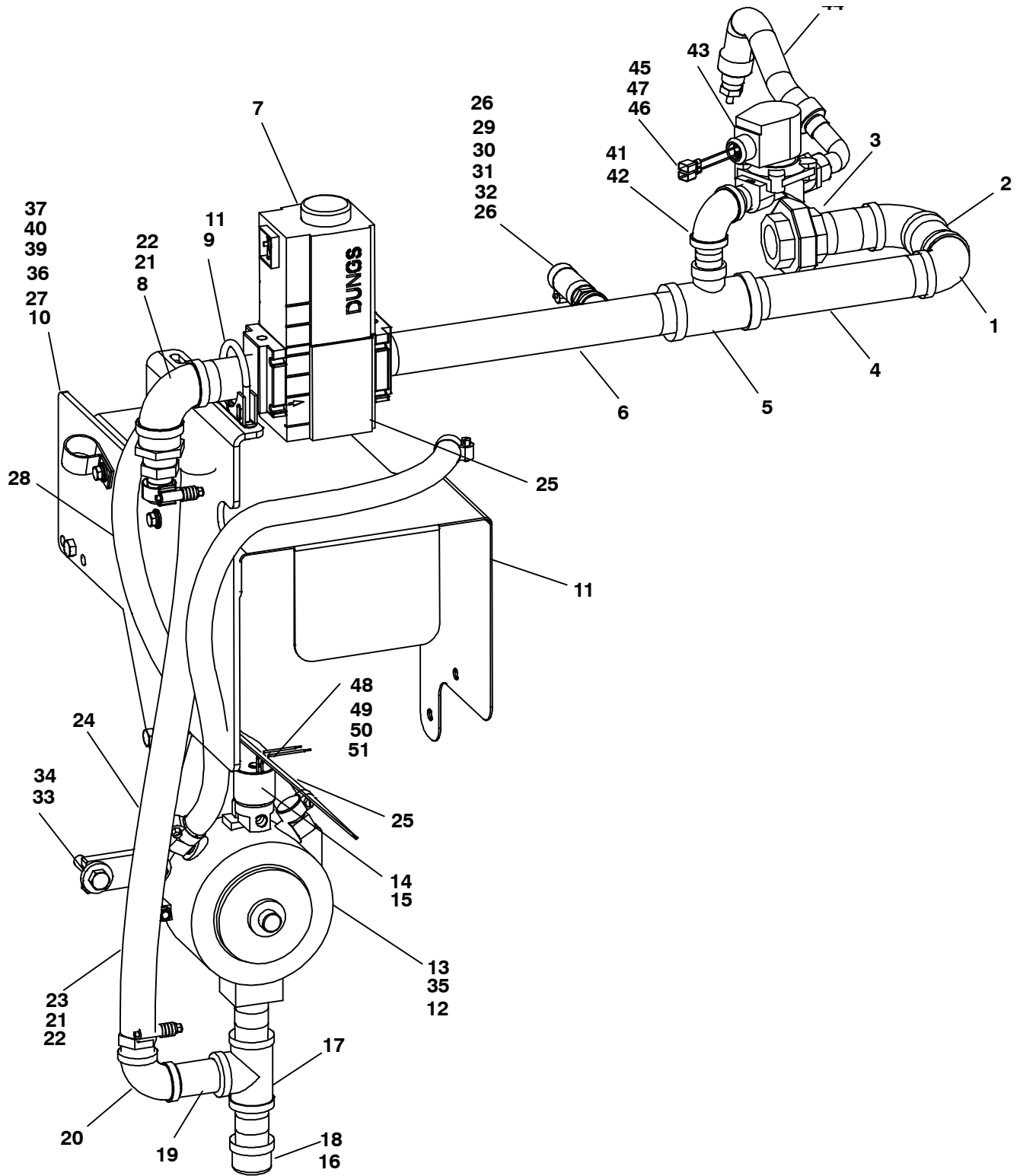
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A034C563	1	Fitting, Union	15	518-0548-02	1	Clamp
2	505-0092	3	Fitting, Nipple	16	338-4838	1	Harness, Extension (not shown)
3	505-0042	3	Elbow, Pipe	17	800-3017-46	1	Screw, Hex Head
4	A041G614	1	Fitting, Nipple	18	821-6003-02	3	Screw, Hex Head
5	A041G602	1	Fitting, Pipe Tee	19	800-3017-44	1	Screw, Hex Head
6	A041G612	1	Fitting, Nipple	20	338-4725-01	1	Harness, Plug (not shown)
7	A030Z459	1	Value, Solenoid	21	505-0102	2	Adapter, Close Nipple
8	501-0776-04	1	Line, Fuel	22	505-0132	1	Elbow, Pipe
9	505-0157	1	Fitting, Nipple	23	307-2930	1	Valve, Solenoid
10	505-0025	1	Bushing, Reducer	24	A041G774	1	Line, Fuel
11	512-0288-02	1	Coupling	25	508-1158	1	Grommet
12	155-2548	1	Clamp	26	226-4797-05	1	Lead
13	A032Y187	1	Bracket, Mounting	27	226-4797-06	1	Lead
14	A032Y619	1	Shield, Heat				

**Fuel System
LPV
GGHJ (Begin Spec A)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0042	2	Elbow, Pipe	16	518-0548-02	1	Clamp
2	505-0092	3	Fitting, Nipple	17	338-4838	3	Harness, Extension
3	A041C563	1	Fitting, Union	18	821-6003-02	1	Screw, Hex Head
4	A041G614	1	Fitting, Nipple	19	800-3017-44	1	Screw, Hex Head
5	A041G602	1	Fitting, Pipe Tee	20	800-3017-46	2	Screw, Hex Head
6	A030G612	1	Fitting, Nipple	21	338-4725-02	1	Harness, Plug
7	A030Z459	1	Valve, Solenoid	22	505-0102	1	Adapter, Close Nipple
8	505-0023	1	Bushing, Reducer	23	505-0132	1	Elbow, Pipe
9	502-1110-01	1	Fitting, Hose Connector	24	307-2930	1	Valve, Solenoid
10	503-2353-09	1	Hose, Fuel	25	A041G774	1	Line, Fuel
11	512-0310-02	1	Coupling	26	508-1158	1	Grommet
12	503-2157-02	1	Clamp	27	226-4797-05	1	Lead
13	155-2548	1	Clamp	28	226-4797-06	1	Lead
14	A032Y187	1	Bracket, Mounting	29	A050A891	1	Fitting, Elbow
15	A032Y619	1	Heat, Shield	30	0505-0086	1	Fitting, Nipple

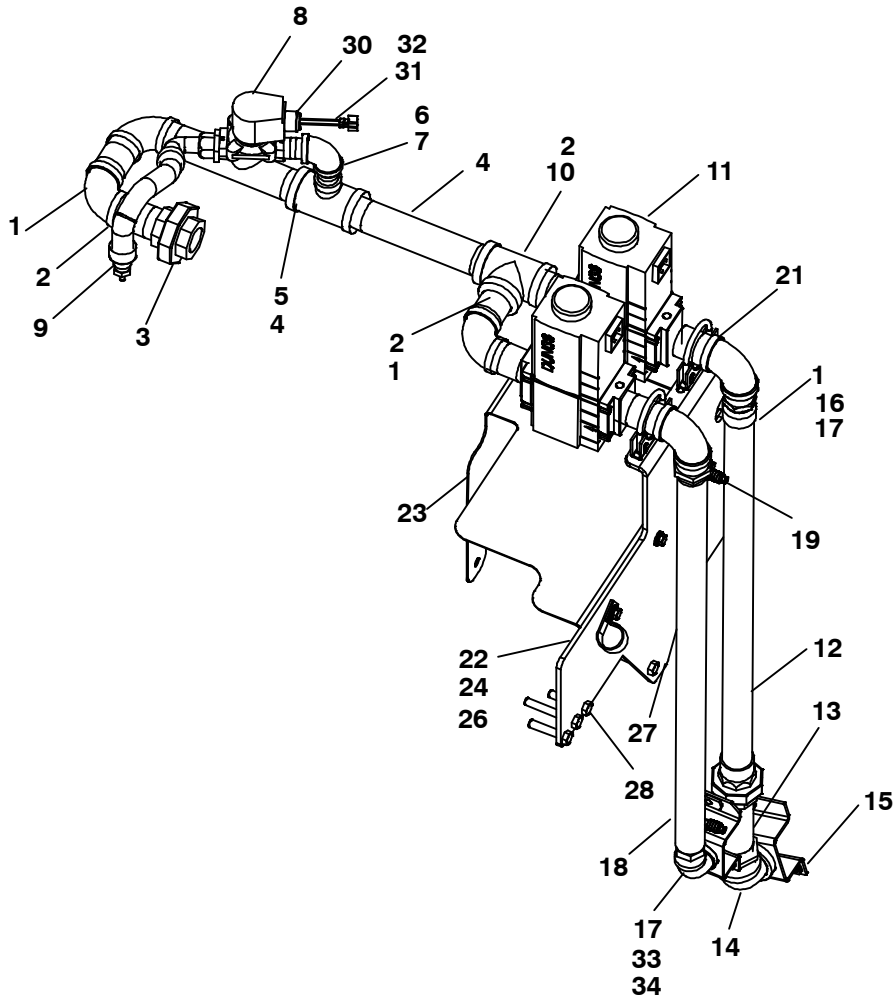
Fuel System
LPL
GGHJ (Spec A)



Fuel System
LPL
GGHJ (Spec A)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0042	3	Elbow, Pipe	27	A034Y036	1	Shield, Heat
2	505-0092	3	Fitting, Nipple	28	503-2293-08	1	Hose, Coolant
3	A041C563	1	Fitting, Union	29	520-1006	1	Stud
4	A041G614	1	Fitting, Nipple	30	505-0040	1	Elbow, Pipe
5	A041G602	1	Fitting, Pipe Tee	31	502-0827	1	Fitting, Hose Barb
6	A030G612	1	Fitting, Nipple	32	503-1194	1	Hose
7	A030Z459	1	Valve, Solenoid	33	800-2116	2	Screw, Hex Head
8	505-0023	1	Bushing, Reducer	34	526-0393	2	Washer, Flat
9	155-2548	1	Clamp	35	815-0924	2	Screw, Hollow Head
10	A032Y187	1	Bracket, Mounting	36	518-0548-02	2	Clamp
11	A032Y619	1	Shield, Heat	37	800-3017-44	1	Screw, Hex Head
12	A035A926	1	Bracket, Mounting	38	338-4838	1	Harness, Extension
13	148-1240	1	Coverter	39	821-6003-02	3	Screw, Hex Head
14	502-1140	1	Elbow, 90° Male	40	800-3017-46	1	Screw, Hex Head
15	307-0268	1	Valve, Solenoid	41	505-0102	2	Adapter, Close Nipple
16	505-0107	3	Fitting, Nipple	42	505-0132	1	Elbow, Pipe
17	505-0304	1	Tee, Pipe, Tee	43	307-2930	1	Valve, Solenoid
18	505-0479	1	Cap, Pipe	44	A041G774	1	Line, Fuel
19	505-0087	1	Fitting, Nipple	45	508-1158	1	Grommet
20	505-0041	1	Elbow, Pipe	46	226-4797-05	1	Lead
21	502-1110-01	2	Fitting, Connector	47	226-4797-06	1	Lead
22	503-2157-02	2	Clamp	48	0338-4839	1	Harness, Engine
23	503-2353-10	1	Hose, Fuel	49	0332-2430	1	Terminal, Receptacle
24	502-0942	2	Elbow, 90° Hose	50	0332-1992	1	Terminal, Receptacle
25	503-2293-01	1	Hose, Coolant	51	0338-4725-02	1	Harness, Plug
26	503-0183	6	Clamp				

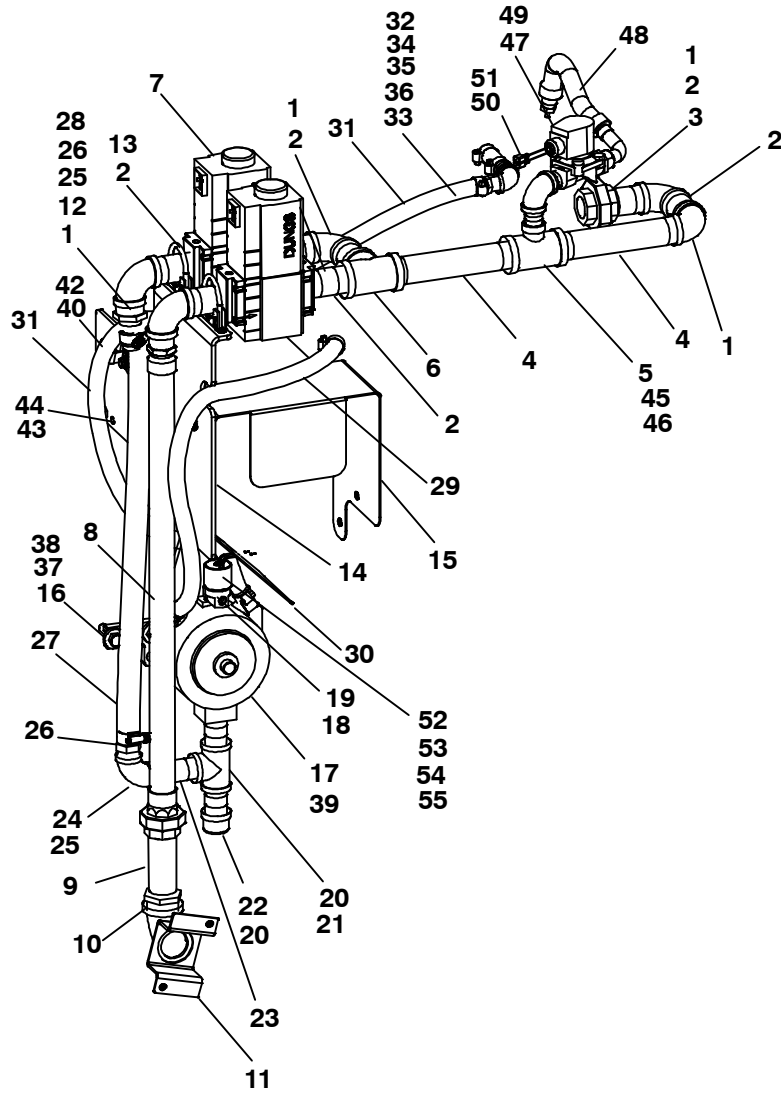
**Fuel System
NG/LPV
GGHJ (Spec A)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0042	5	Elbow, Pipe	18	503-2353-09	1	Hose, Fuel
2	505-0092	7	Fitting, Nipple	19	503-2157-02	2	Clamp
3	A041C563	1	Fitting, Union	20	512-0310-02	1	Coupling
4	A041G614	2	Fitting, Nipple	21	155-2548	2	Clamp
5	A041G602	1	Fitting, Pipe Tee	22	A032Y187	1	Bracket, Mounting
6	505-0102	2	Adapter, Close Nipple	23	A032Y619	1	Shield, Heat
7	505-0132	1	Elbow, Pipe	24	518-0548-02	1	Clamp
8	307-2930	1	Valve, Solenoid	25	338-4838	2	Harness, Extension
9	A041G774	1	Line, Fuel	26	821-6003-02	3	Screw, Hex Head
10	A034C561	1	Fitting, Nipple	27	800-3017-44	1	Screw, Hex Head
11	A030Z459	2	Valve, Solenoid	28	800-3017-46	1	Screw, Hex Head
12	501-0776-04	1	Line, Fuel	29	338-4725-03	1	Harness, Plug
13	505-0157	1	Fitting, Nipple	30	508-1158	1	Grommet
14	505-0025	1	Bushing, Reducer	31	226-4797-05	1	Lead
15	512-0288-02	1	Coupling	32	226-4797-06	1	Lead
16	505-0023	1	Bushing, Reducer	33	A050A891	1	Fitting, Elbow
17	502-1110-01	2	Fitting, Hose Connector	34	0505-0086	1	Fitting, Nipple

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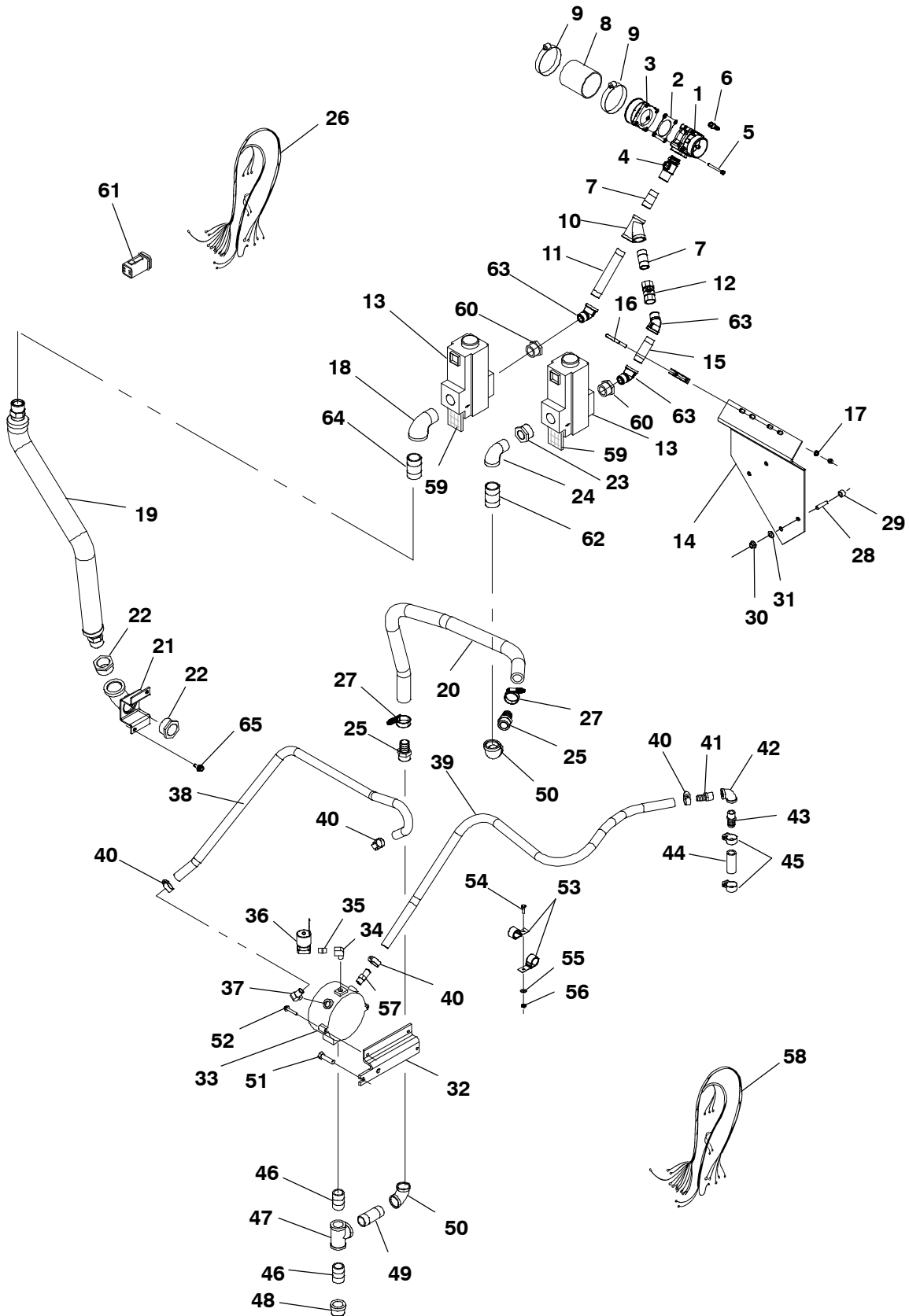
**Fuel System
NG/LPL
GGHJ (Spec A)**



Fuel System
NG/LPL
GGHJ (Spec A)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0042	5	Elbow, Pipe	29	503-2293-01	1	Hose, Coolant
2	505-0092	7	Fitting, Nipple	30	A034Y036	1	Shield, Heat
3	A041C563	1	Fitting, Union	31	503-2293-08	1	Hose, Coolant
4	A041G614	2	Fitting, Nipple	32	520-1006	1	Stud
5	A041G602	1	Fitting, Pipe Tee	33	503-0183	6	Clamp
6	A034C561	1	Fitting, Pipe Tee	34	505-0040	1	Elbow, Pipe
7	A030Z459	2	Valve, Solenoid	35	502-0827	1	Fitting, Hose Barb
8	501-0776-04	1	Line, Fuel	36	503-1194	1	Hose
9	505-0157	1	Fitting, Nipple	37	526-0393	2	Washer, Flat
10	505-0025	1	Bushing, Reducer	38	800-2116	2	Screw, Hex Head
11	512-0288-02	1	Coupling	39	815-0924	2	Screw, Hollow Head
12	505-0023	1	Bushing, Reducer	40	518-0548-02	2	Clamp
13	155-2548	2	Clamp	41	338-4838	2	Harness, Extension
14	A032Y187	1	Bracket, Mounting	42	821-6003-02	3	Screw, Hex Head
15	A032Y619	1	Shield, Heat	43	800-3017-14	1	Screw, Hex Head
16	A035A926	1	Bracket, Mounting	44	800-3017-46	1	Screw, Hex Head
17	148-1240	1	Converter	45	505-0102	2	Adapter, Close Nipple
18	502-1140	1	Elbow, 90° Male	46	505-0132	1	Elbow, Pipe
19	307-0268	1	Valve, Solenoid	47	307-2930	1	Valve, Solenoid
20	505-0107	2	Fitting, Nipple	48	A041G774	1	Line, Fuel
21	505-0304	1	Tee, Pipe Tee	49	508-1158	1	Grommet
22	505-0479	1	Cap, Pipe	50	226-4797-05	1	Lead
23	505-0087	1	Fitting, Nipple	51	226-4797-06	1	Lead
24	505-0041	1	Elbow, Pipe	52	0338-4839	1	Harness, Lead
25	502-1110-01	2	Fitting, Hose Connector	53	0332-2430	1	Terminal, Receptacle
26	503-2157-02	2	Clamp	54	0332-1992	1	Terminal, Receptacle
27	503-2353-10	1	Hose, Fuel	55	0338-4725-03	1	Harness, Plug
28	502-0942	2	Elbow, 90° Hose				

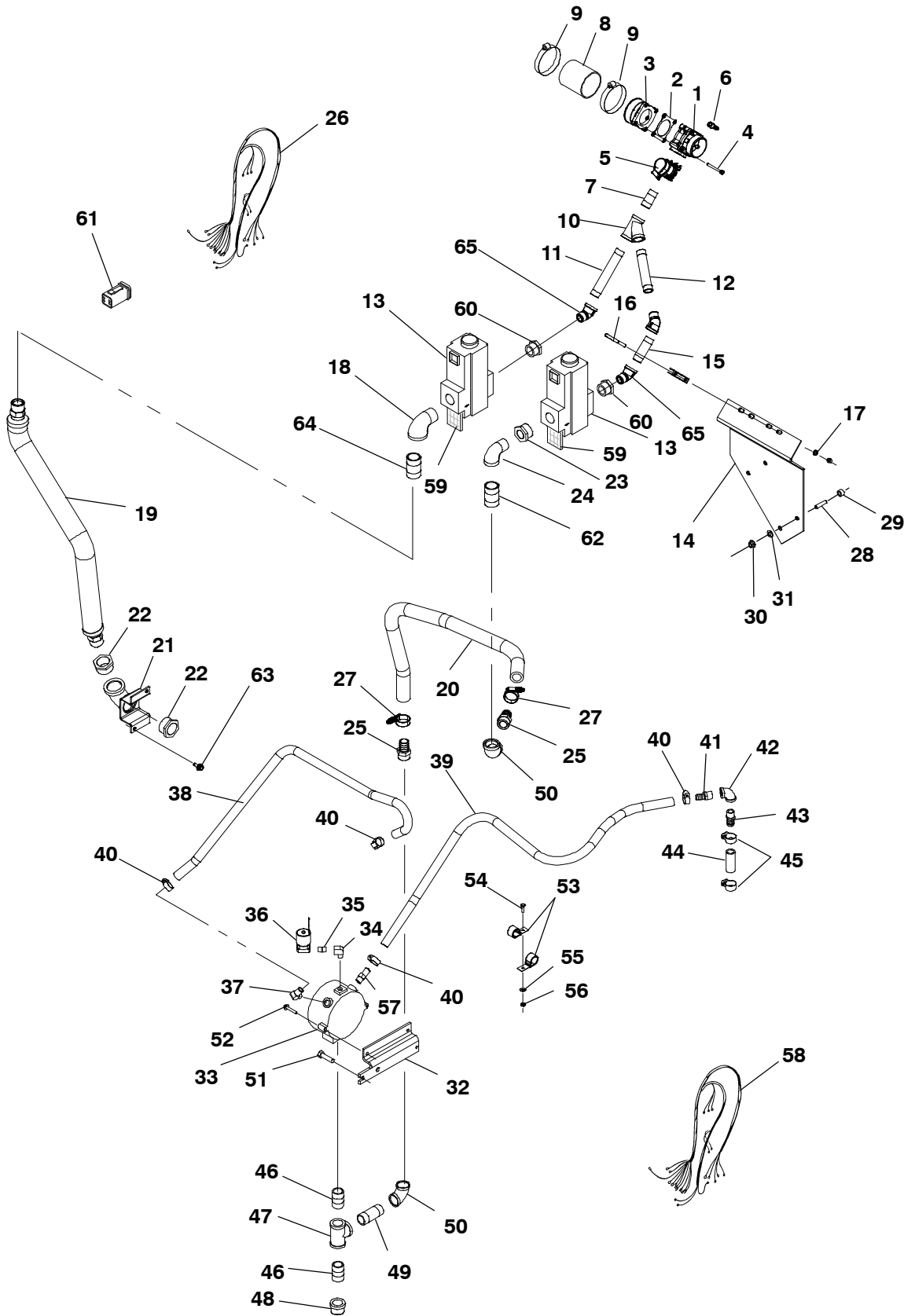
Fuel System **Dual Fuel Propane Liquid** **GGHG/GGHH (Spec F-G)**



Fuel System
Dual Fuel Propane Liquid
GGHG/GGHH (Spec F-G)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1200-02	1	Mixer – ITB	35	505-0099	1	Nipple, Pipe (1/4 x .88)
2	145-0813	1	Gasket, Throttle Body	36	307-0268	1	Valve, Solenoid
3	148-1237	1	Adapter, Mixer	37	502-0942	1	Elbow, 90° – Hose (3/8 x 5/8)
4	504-0210	1	Valve, Fuel	38	503-2293-04	1	Hose, Coolant
5	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	39	503-2293-05	1	Hose, Coolant
6	502-1494	1	Connector, Hose	40	503-0183	4	Clamp, Hose
7	505-0085	2	Nipple, Pipe (3/4 x 2.00)	41	502-1006	1	Connector, Hose (1/2 x 5/8)
8	148-1181	1	Hose, Mixer Adapter	42	505-0040	1	Elbow, Pipe
9	503-1870-05	2	Clamp, Hose	43	502-0827	1	Hose, Barb
10	505-2351	1	Tee, Pipe – 45° Y-Branch (3/4)	44	503-2098-04	1	Hose
11	505-0754	1	Nipple, Pipe (3/4 x 6.00)	45	503-1870-01	2	Clamp, Hose
12	504-0171	1	Valve, Shutoff	46	505-0107	2	Nipple, Pipe (1 x 2.00)
13	148-1321	2	Regulator, Fuel – Dual Shutoff	47	505-0304	1	Tee, Pipe
	504-0314	1	Solenoid, Valve – Replacement	48	505-0479	1	Cap, Pipe
14	148-1330-02	1	Bracket, Fuel System	49	505-0087	1	Nipple, Pipe (1 x 3.00)
15	505-0332	1	Nipple, Pipe (3/4 x 3.00)	50	505-0041	2	Elbow, Pipe
16	155-1256	2	Clamp, Muffler (1.50")	51	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45)
17	526-0022	4	Washer, Flat	52	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
18	505-0186	1	Elbow, Street – 90° (1-1/4)	53	332-3196	2	Clamp, J
19	501-0776-04	1	Line, Fuel – Flexible	54	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
20	503-2353-10	1	Hose, Fuel (LP)	55	526-0018	1	Washer, Flat (1/4)
21	512-0288-02	1	Coupling Assembly	56	750-1004	1	Nut, Hex (M6 x 1)
22	505-0025	2	Bushing, Reducer (1-1/4 x 1-1/2)	57	502-0943	1	Connector, Hose (3/8 x 5/8)
23	505-0023	1	Bushing, Reducer (1-1/4 x 1)	58	338-4839	1	Harness, Engine
24	505-0003	1	Elbow, Street – 90°	59			Filter, Dungs
25	502-1110-01	4	Connector, Hose		149-2829-01	1	One Filter
26	338-4838	2	Harness, Extension		149-2829-02	1	Ten Pack
27	503-2157-02	2	Clamp, Hose	60	505-0129	2	Bushing, Reducer (1 x 3/4)
28	520-1025-03	4	Stud (M10 x 1.5 x 54)	61	338-4725-03	1	Harness, Plug – Fuel Select
29	403-4496-02	4	Spacer, Motor Mount	62	505-0086	1	Nipple, Pipe (1 x 2.50)
30	870-2065-04	4	Nut, Hex – Flange (M10 x 1.5)	63	505-0691	3	Elbow, Pipe (3/4)
31	526-2120	1	Washer, Flat (M10)	64	505-0092	1	Nipple, Pipe (1-1/4 x 2.50)
32	148-1248-02	1	Bracket, Converter	65	821-6007-02	2	Screw, Hex Head (M8 x 1.25 x 20)
33	148-1240	1	Converter (LP)				
34	502-0054	1	Elbow, Street – Pipe				

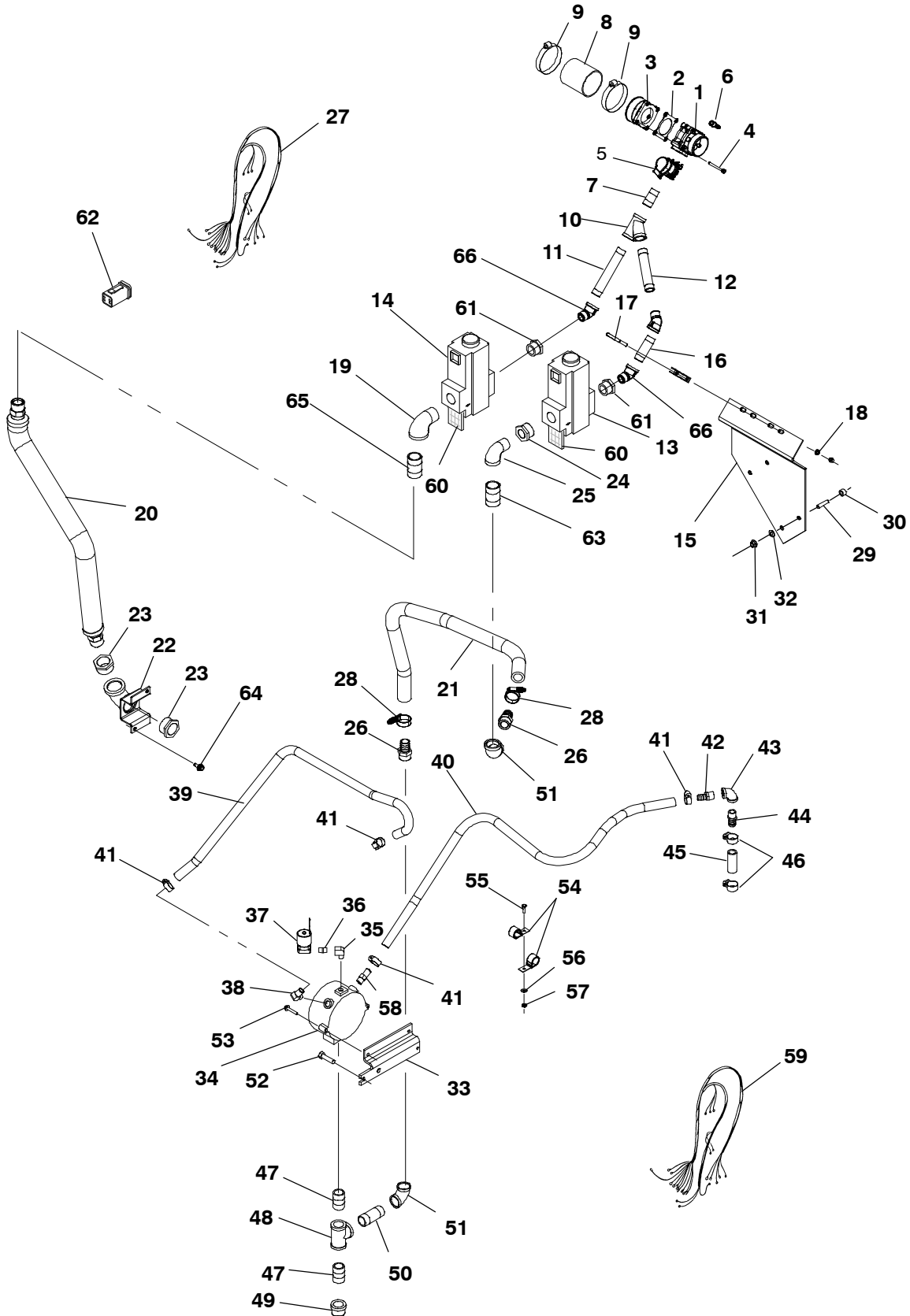
Fuel System **Dual Fuel Propane Liquid** **GGHG/GGHH (Begin Spec H)**



Fuel System
Dual Fuel Propane Liquid
GGHG/GGHH (Begin Spec H)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1200-02	1	Mixer – ITB	35	505-0099	1	Nipple, Pipe (1/4 x .88)
2	145-0813	1	Gasket, Throttle Body	36	307-0268	1	Valve, Solenoid
3	148-1237	1	Adapter, Mixer	37	502-0942	1	Elbow, 90° – Hose (3/8 x 5/8)
4	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	38	503-2293-04	1	Hose, Coolant
5	A034B904	1	Control	39	503-2293-05	1	Hose, Coolant
6	502-1494	1	Connector, Hose	40	503-0183	4	Clamp, Hose
7	505-0085	1	Nipple, Pipe (3/4 x 2.00)	41	502-1006	1	Connector, Hose (1/2 x 5/8)
8	148-1181	1	Hose, Mixer Adapter	42	505-0040	1	Elbow, Pipe
9	503-1870-05	2	Clamp, Hose	43	502-0827	1	Hose, Barb
10	505-2351	1	Tee, Pipe – 45° Y-Branch (3/4)	44	503-1194	1	Hose
11	505-0754	1	Nipple, Pipe (3/4 x 6.00)	45	503-1870-01	2	Clamp, Hose
12	505-0337	1	Nipple, Pipe (3/4 x 4.00)	46	505-0107	2	Nipple, Pipe (1 x 2.00)
13	148-1321	2	Regulator, Fuel – Dual Shutoff	47	505-0304	1	Tee, Pipe
	504-0314	1	Solenoid, Valve – Replacement	48	505-0479	1	Cap, Pipe
14	148-1330-02	1	Bracket, Fuel System	49	505-0087	1	Nipple, Pipe (1 x 3.00)
15	505-0332	1	Nipple, Pipe (3/4 x 3.00)	50	505-0041	2	Elbow, Pipe
16	155-1256	2	Clamp, Muffler (1.50")	51	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45)
17	526-0022	4	Washer, Flat	52	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
18	505-0186	1	Elbow, Street – 90° (1-1/4)	53	332-3196	2	Clamp, J
19	501-0776-04	1	Line, Fuel – Flexible	54	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
20	503-2353-10	1	Hose, Fuel (LP)	55	526-0018	1	Washer, Flat (1/4)
21	512-0288-02	1	Coupling Assembly	56	750-1004	1	Nut, Hex (M6 x 1)
22	505-0025	2	Bushing, Reducer (1-1/4 x 1-1/2)	57	502-0943	1	Connector, Hose (3/8 x 5/8)
23	505-0023	1	Bushing, Reducer (1-1/4 x 1)	58	338-4839	1	Harness, Engine
24	505-0003	1	Elbow, Street – 90°	59			Filter, Dungs
25	502-1110-01	4	Connector, Hose		149-2829-01	1	One Filter
26	338-4838	2	Harness, Extension		149-2829-02	1	Ten Pack
27	503-2157-02	2	Clamp, Hose	60	505-0129	2	Bushing, Reducer (1 x 3/4)
28	520-1025-03	4	Stud (M10 x 1.5 x 54)	61	338-4725-03	1	Harness, Plug – Fuel Select
29	403-4496-02	4	Spacer, Motor Mount	62	505-0086	1	Nipple, Pipe (1 x 2.50)
30	870-2065-04	4	Nut, Hex – Flange (M10 x 1.5)	63	821-6007-02	2	Screw, Hex Head (M8 x 1.25 x 20)
31	526-2120	1	Washer, Flat (M10)	64	505-0092	1	Nipple, Pipe (1-1/2 x 2.50)
32	148-1248-02	1	Bracket, Converter	65	505-0691	2	Elbow, Pipe (3/4)
33	148-1240	1	Converter (LP)				
34	502-0054	1	Elbow, Street – Pipe				

Fuel System **Dual Fuel Propane Liquid** **GGHG/GGHH (Spec J-K)**



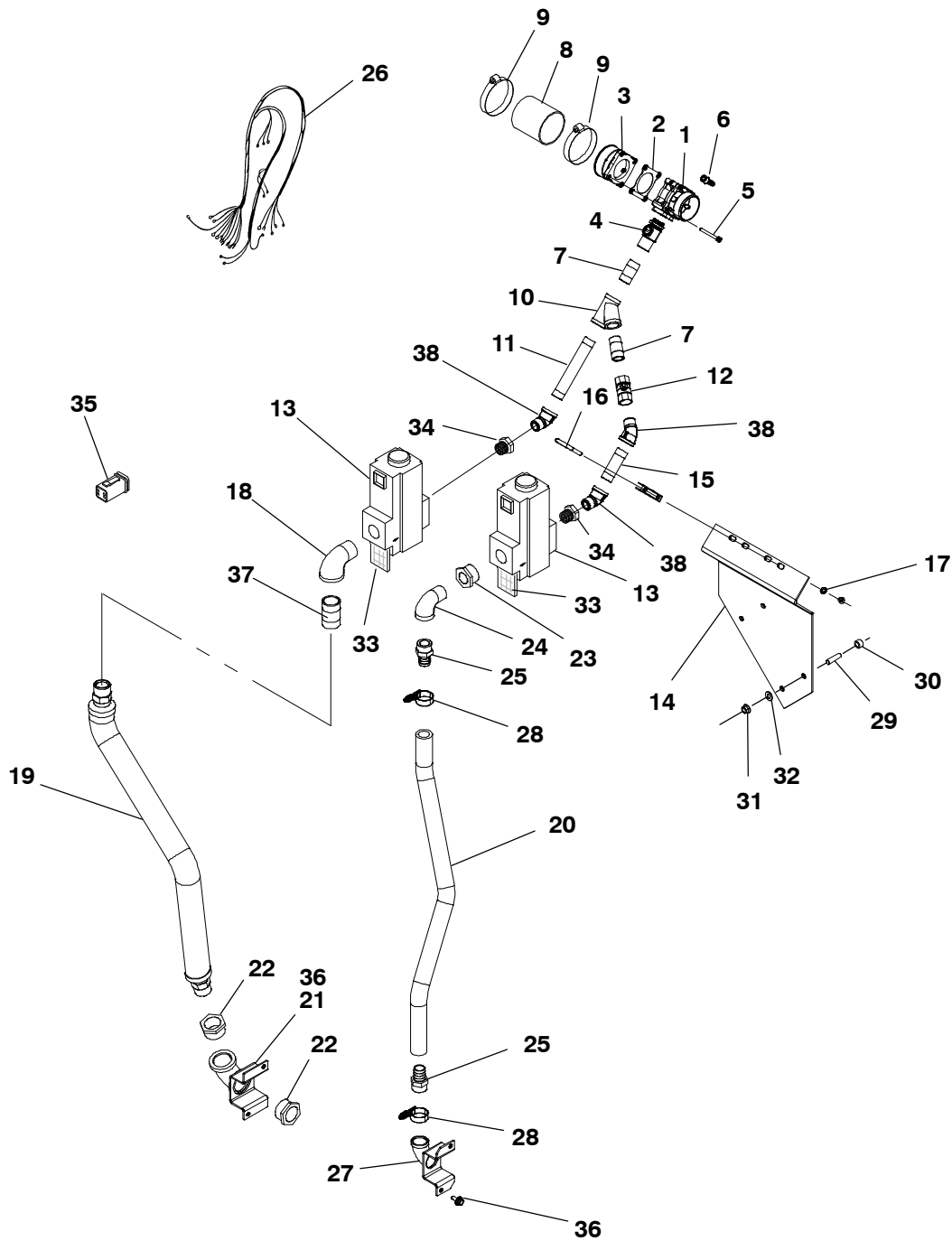
Fuel System

Dual Fuel Propane Liquid

GGHG/GGHH (Spec J-K)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1200-02	1	Mixer – ITB	36	505-0099	1	Nipple, Pipe (1/4 x .88)
2	145-0813	1	Gasket, Throttle Body	37	307-0268	1	Valve, Solenoid
3	148-1237	1	Adapter, Mixer	38	502-0942	1	Elbow, 90° – Hose (3/8 x 5/8)
4	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	39	503-2293-04	1	Hose, Coolant
5	A034B904	1	Control	40	503-2293-05	1	Hose, Coolant
6	502-1494	1	Connector, Hose	41	503-0183	4	Clamp, Hose
7	505-0085	1	Nipple, Pipe (3/4 x 2.00)	42	502-1006	1	Connector, Hose (1/2 x 5/8)
8	148-1181	1	Hose, Mixer Adapter	43	505-0040	1	Elbow, Pipe
9	503-1870-05	2	Clamp, Hose	44	502-0827	1	Hose, Barb
10	505-2351	1	Tee, Pipe – 45° Y-Branch (3/4)	45	503-1194	1	Hose
11	505-0754	1	Nipple, Pipe (3/4 x 6.00)	46	503-1870-01	2	Clamp, Hose
12	505-0337	1	Nipple, Pipe (3/4 x 4.00)	47	505-0107	2	Nipple, Pipe (1 x 2.00)
13	A026H151	1	Regulator, Fuel	48	505-0304	1	Tee, Pipe
14	A026H148	1	Regulator, Fuel	49	505-0479	1	Cap, Pipe
15	148-1330-02	1	Bracket, Fuel System	50	505-0087	1	Nipple, Pipe (1 x 3.00)
16	505-0332	1	Nipple, Pipe (3/4 x 3.00)	51	505-0041	2	Elbow, Pipe
17	155-1256	2	Clamp, Muffler (1.50")	52	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45)
18	526-0022	4	Washer, Flat	53	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
19	505-0186	1	Elbow, Street – 90° (1-1/4)	54	332-3196	2	Clamp, J
20	501-0776-04	1	Line, Fuel – Flexible	55	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
21	503-2353-10	1	Hose, Fuel (LP)	56	526-0018	1	Washer, Flat (1/4)
22	512-0288-02	1	Coupling Assembly	57	750-1004	1	Nut, Hex (M6 x 1)
23	505-0025	2	Bushing, Reducer (1-1/4 x 1-1/2)	58	502-0943	1	Connector, Hose (3/8 x 5/8)
24	505-0023	1	Bushing, Reducer (1-1/4 x 1)	59	338-4839	1	Harness, Engine
25	505-0003	1	Elbow, Street – 90°	60			Filter, Dungs
26	502-1110-01	4	Connector, Hose		149-2829-01	1	One Filter
27	338-4838	2	Harness, Extension		149-2829-02	1	Ten Pack
28	503-2157-02	2	Clamp, Hose	61	505-0129	2	Bushing, Reducer (1 x 3/4)
29	520-1025-03	4	Stud (M10 x 1.5 x 54)	62	338-4725-03	1	Harness, Plug – Fuel Select
30	403-4496-02	4	Spacer, Motor Mount	63	505-0086	1	Nipple, Pipe (1 x 2.50)
31	870-2065-04	4	Nut, Hex – Flange (M10 x 1.5)	64	821-6007-02	2	Screw, Hex Head (M8 x 1.25 x 20)
32	526-2120	1	Washer, Flat (M10)	65	505-0092	1	Nipple, Pipe (1-1/2 x 2.50)
33	148-1248-02	1	Bracket, Converter	66	505-0691	2	Elbow, Pipe (3/4)
34	148-1240	1	Converter (LP)				
35	502-0054	1	Elbow, Street – Pipe				

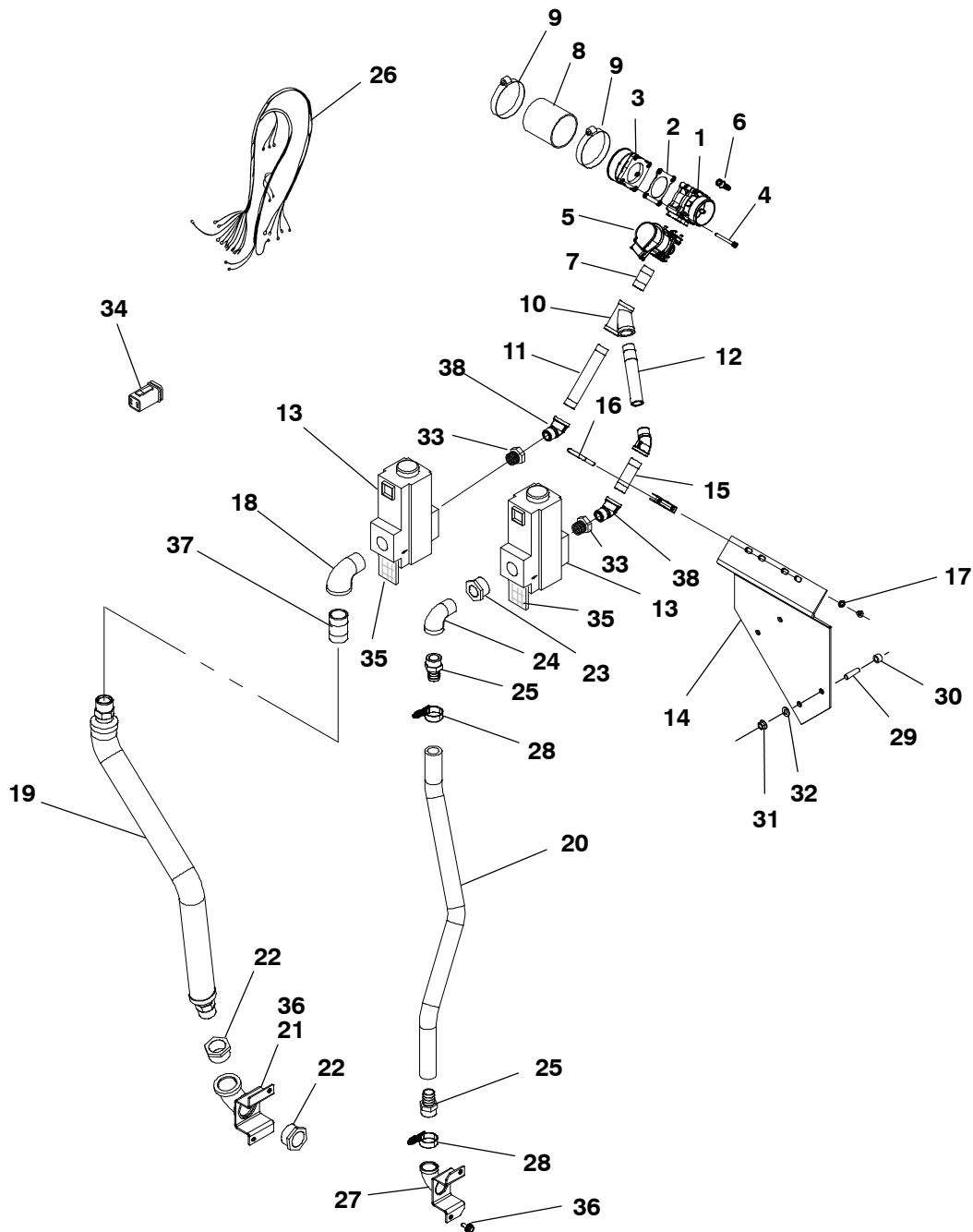
Fuel System
Dual Fuel Propane Vapor
GGHG/GGHH (Spec F-G)



Fuel System
Dual Fuel Propane Vapor
GGHG/GGHH (Spec F-G)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1200-02	1	Mixer – ITB	21	512-0288-02	1	Coupling Assembly
2	145-0813	1	Gasket, Throttle Body	22	505-0025	2	Bushing, Reducer (1-1/4 x 1-1/2)
3	148-1237	1	Adapter, Mixer	23	505-0023	1	Bushing, Reducer (1-1/4 x 1)
4	504-0210	1	Valve, Fuel	24	505-0003	1	Elbow, Street – 90°
5	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	25	502-1110-01	2	Connector, Hose
6	502-1494	1	Connector, Hose	26	338-4838	2	Harness, Extension
7	505-0085	2	Nipple, Pipe (3/4 x 2.00)	27	512-0310-02	1	Coupling Assembly
8	148-1181	1	Hose, Mixer Adapter	28	503-2157-02	2	Clamp, Hose
9	503-1870-05	2	Clamp, Hose	29	520-1025-03	4	Stud (M10 x 1.5 x 54)
10	505-2351	1	Tee, Pipe – 45° Y-Branch (3/4)	30	403-4496-02	4	Spacer, Motor Mount
11	505-0754	1	Nipple, Pipe (3/4 x 6.00)	31	870-2065-04	4	Nut, Hex – Flange (M10 x 1.5)
12	504-0171	1	Valve, Shutoff	32	526-2120	1	Washer, Flat (M10)
13	148-1321	2	Regulator, Fuel – Dual Shutoff	33			Filter, Dungs
	504-0314	1	Solenoid, Valve – Replacement		149-2829-01	1	One Filter
14	148-1330-02	1	Bracket, Fuel System		149-2829-02	1	Ten Pack
15	505-0332	1	Nipple, Pipe (3/4 x 3.00)	34	505-0129	2	Bushing, Reducer (1 x 3/4)
16	155-1256	2	Clamp, Muffler (1.50")	35	338-4725-03	1	Harness, Plug – Fuel Select
17	526-0022	4	Washer, Flat	36	821-6007-02	4	Screw, Hex Head (M8 x 1.25 x 20)
18	505-0186	1	Elbow, Street – 90° (1-1/4)	37	505-0092	1	Nipple, Pipe (1-1/2 x 2.50)
19	501-0776-04	1	Line, Fuel – Flexible	38	505-0691	3	Elbow, Pipe (3/4)
20	503-2353-09	1	Hose, Fuel (LP)				

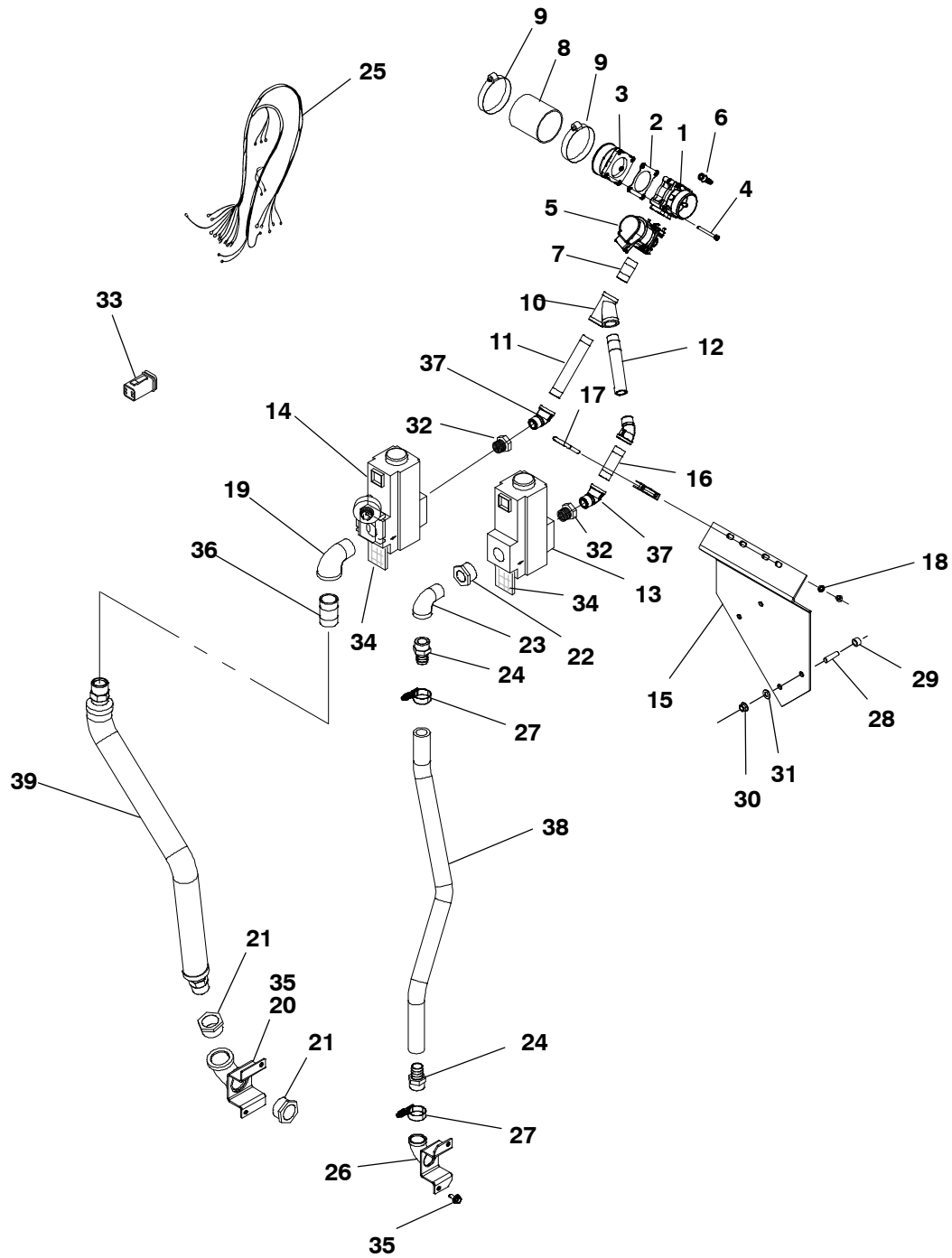
Fuel System **Dual Fuel Propane Vapor** **GGHG/GGHH (Spec H)**



**Fuel System
Dual Fuel Propane Vapor
GGHG/GGHH (Spec H)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1200-02	1	Mixer – ITB	21	512-0288-02	1	Coupling Assembly
2	145-0813	1	Gasket, Throttle Body	22	505-0025	2	Bushing, Reducer (1-1/4 x 1-1/2)
3	148-1237	1	Adapter, Mixer	23	505-0023	1	Bushing, Reducer (1-1/4 x 1)
4	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	24	505-0003	1	Elbow, Street – 90°
5	A034B904	1	Control	25	502-1110-01	2	Connector, Hose
6	502-1494	1	Connector, Hose	26	338-4838	2	Harness, Extension
7	505-0085	1	Nipple, Pipe (3/4 x 2.00)	27	512-0310-02	1	Coupling Assembly
8	148-1181	1	Hose, Mixer Adapter	28	503-2157-02	2	Clamp, Hose
9	503-1870-05	2	Clamp, Hose	29	520-1025-03	4	Stud (M10 x 1.5 x 54)
10	505-2351	1	Tee, Pipe – 45° Y-Branch (3/4)	30	403-4496-02	4	Spacer, Motor Mount
11	505-0754	1	Nipple, Pipe (3/4 x 6.00)	31	870-2065-04	4	Nut, Hex – Flange (M10 x 1.5)
12	505-0337	1	Nipple, Pipe (3/4 x 4.00)	32	526-2120	1	Washer, Flat (M10)
13	148-1321	2	Regulator, Fuel – Dual Shutoff	33	505-0129	2	Bushing, Reducer (1 x 3/4)
	504-0314	1	Solenoid, Valve – Replacement	34	338-4725-03	1	Harness, Plug – Fuel Select
14	148-1330-02	1	Bracket, Fuel System	35			Filter, Dungs
15	505-0332	1	Nipple, Pipe (3/4 x 3.00)		149-2829-01	1	One Filter
16	155-1256	2	Clamp, Muffler (1.50")		149-2829-02	1	Ten Pack
17	526-0022	4	Washer, Flat	36	821-6007-02	4	Screw, Hex Head (M8 x 1.25 x 20)
18	505-0186	1	Elbow, Street – 90° (1-1/4)	37	505-0092	1	Nipple, Pipe (1-1/2 x 2.50)
19	501-0776-04	1	Line, Fuel – Flexible	38	505-0691	2	Elbow, Pipe (3/4)
20	503-2353-09	1	Hose, Fuel (LP)				

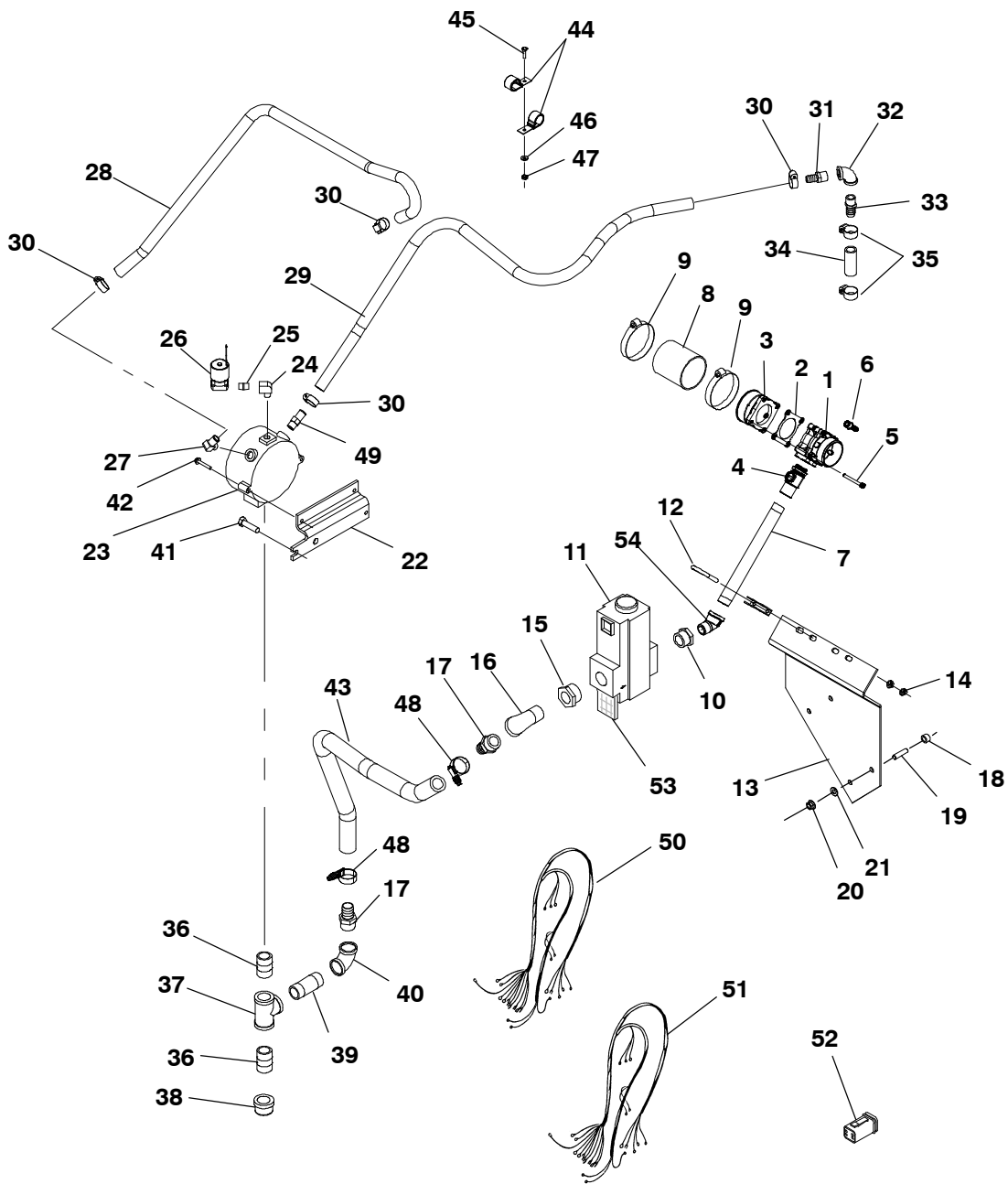
Fuel System **Dual Fuel Propane Vapor** **GGHG/GGHH (Spec J-K)**



Fuel System
Dual Fuel Propane Vapor
GGHG/GGHH (Spec J-K)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1200-02	1	Mixer – ITB	22	505-0023	1	Bushing, Reducer (1-1/4 x 1)
2	145-0813	1	Gasket, Throttle Body	23	505-0003	1	Elbow, Street – 90°
3	148-1237	1	Adapter, Mixer	24	502-1110-01	2	Connector, Hose
4	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	25	338-4838	2	Harness, Extension
5	A034B904	1	Control	26	512-0310-02	1	Coupling Assembly
6	502-1494	1	Connector, Hose	27	503-2157-02	2	Clamp, Hose
7	505-0085	1	Nipple, Pipe (3/4 x 2.00)	28	520-1025-03	4	Stud (M10 x 1.5 x 54)
8	148-1181	1	Hose, Mixer Adapter	29	403-4496-02	4	Spacer, Motor Mount
9	503-1870-05	2	Clamp, Hose	30	870-2065-04	4	Nut, Hex – Flange (M10 x 1.5)
10	505-2351	1	Tee, Pipe – 45° Y-Branch (3/4)	31	526-2120	1	Washer, Flat (M10)
11	505-0754	1	Nipple, Pipe (3/4 x 6.00)	32	505-0129	2	Bushing, Reducer (1 x 3/4)
12	505-0337	1	Nipple, Pipe (3/4 x 4.00)	33	338-4725-03	1	Harness, Plug – Fuel Select
13	A026H148	1	Regulator, Fuel	34			Filter, Dungs
14	A026H151	1	Regulator, Fuel		149-2829-01	1	One Filter
15	148-1330-02	1	Bracket, Fuel System		149-2829-02	1	Ten Pack
16	505-0332	1	Nipple, Pipe (3/4 x 3.00)	35	821-6007-02	4	Screw, Hex Head (M8 x 1.25 x 20)
17	155-1256	2	Clamp, Muffler (1.50")	36	505-0092	1	Nipple, Pipe (1-1/2 x 2.50)
18	526-0022	4	Washer, Flat	37	505-0691	2	Elbow, Pipe (3/4)
19	505-0186	1	Elbow, Street – 90° (1-1/4)	38	501-0776-04	1	Line, Fuel
20	512-0288-02	1	Coupling Assembly	39	503-2353-09	1	Hose, Fuel
21	505-0025	2	Bushing, Reducer (1-1/4 x 1-1/2)				

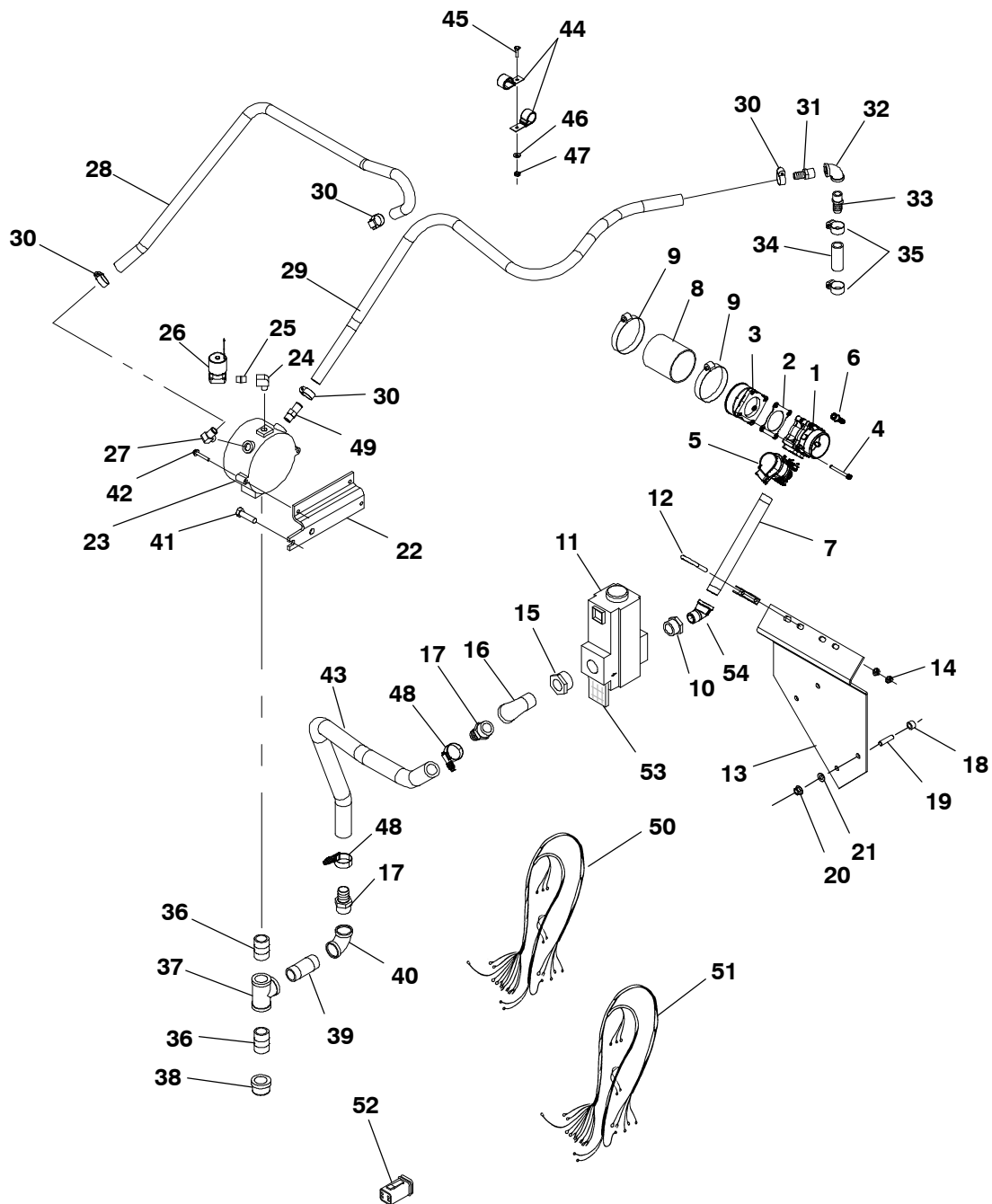
Fuel System
Propane Liquid
GGHG/GGHH (Spec F-G)



**Fuel System
Propane Liquid
GGHG/GGHH (Spec F-G)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1200-02	1	Mixer – ITB	30	503-0183	4	Clamp, Hose
2	145-0813	1	Gasket, Throttle Body	31	502-1006	1	Connector, Hose (1/2 x 5/8)
3	148-1237	1	Adapter, Mixer	32	505-0040	1	Elbow, Pipe
4	504-0210	1	Valve, Fuel	33	502-0827	1	Hose, Barb
5	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	34	503-1194	1	Hose
6	502-1494	1	Connector, Hose	35	503-1870-01	2	Clamp, Hose
7	505-1526	1	Nipple, Pipe (3/4 x 10.00)	36	505-0107	2	Nipple, Pipe (1 x 2.00)
8	148-1181	1	Hose, Mixer Adapter	37	505-0304	1	Tee, Pipe
9	503-1870-05	2	Clamp, Hose	38	505-0479	1	Cap, Pipe
10	505-0129	1	Bushing, Reducer (1 x 3/4)	39	505-0087	1	Nipple, Pipe (1 x 3.00)
11	148-1321	1	Regulator, Fuel – Dual Shutoff	40	505-0041	1	Elbow, Pipe
	504-0314	1	Solenoid, Valve – Replacement	41	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45)
12	155-1256	1	Clamp, Muffler (1.50")	42	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
13	148-1330-02	1	Bracket, Fuel System	43	503-2353-04	1	Hose, Fuel
14	526-0022	2	Washer, Flat	44	332-3196	2	Clamp, J
15	505-0023	1	Bushing, Reducer (1-1/4 x 1)	45	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
16	505-0003	1	Elbow, Street – 90°	46	526-0018	1	Washer, Flat (1/4)
17	502-1110-01	2	Connector, Hose	47	750-1004	1	Nut, Hex (M6 x 1)
18	403-4496-02	4	Spacer, Motor Mount	48	503-2157-02	2	Clamp, Hose
19	520-1025-03	4	Stud (M10 x 1.5 x 54)	49	502-0943	1	Connector, Hose (3/8 x 5/8)
20	870-2065-04	4	Nut, Hex – Flange (M10 x 1.5)	50	338-4838	1	Harness, Extension
21	526-2120	1	Washer, Flat (M10)	51	338-4839	1	Harness, Engine
22	148-1248-02	1	Bracket, Converter	52	338-4725-02	1	Harness, Plug (Fuel Select)
23	148-1240	1	Converter, LP	53			Filter, Dungs
24	502-0054	1	Elbow, Street – Pipe		149-2829-01	1	One Filter
25	505-0099	1	Nipple, Pipe (1/4 x .88)		149-2829-02	1	Ten Pack
26	307-0268	1	Valve, Solenoid	54	505-0691	1	Elbow, Pipe (3/4)
27	502-0942	1	Elbow, Hose – 90° (3/8 x 5/8)				
28	503-2293-04	1	Hose, Coolant				
29	503-2293-05	1	Hose, Coolant				

Fuel System
Propane Liquid
GGHG/GGHH (Spec H)



**Fuel System
Propane Liquid
GGHG/GGHH (Spec H)**

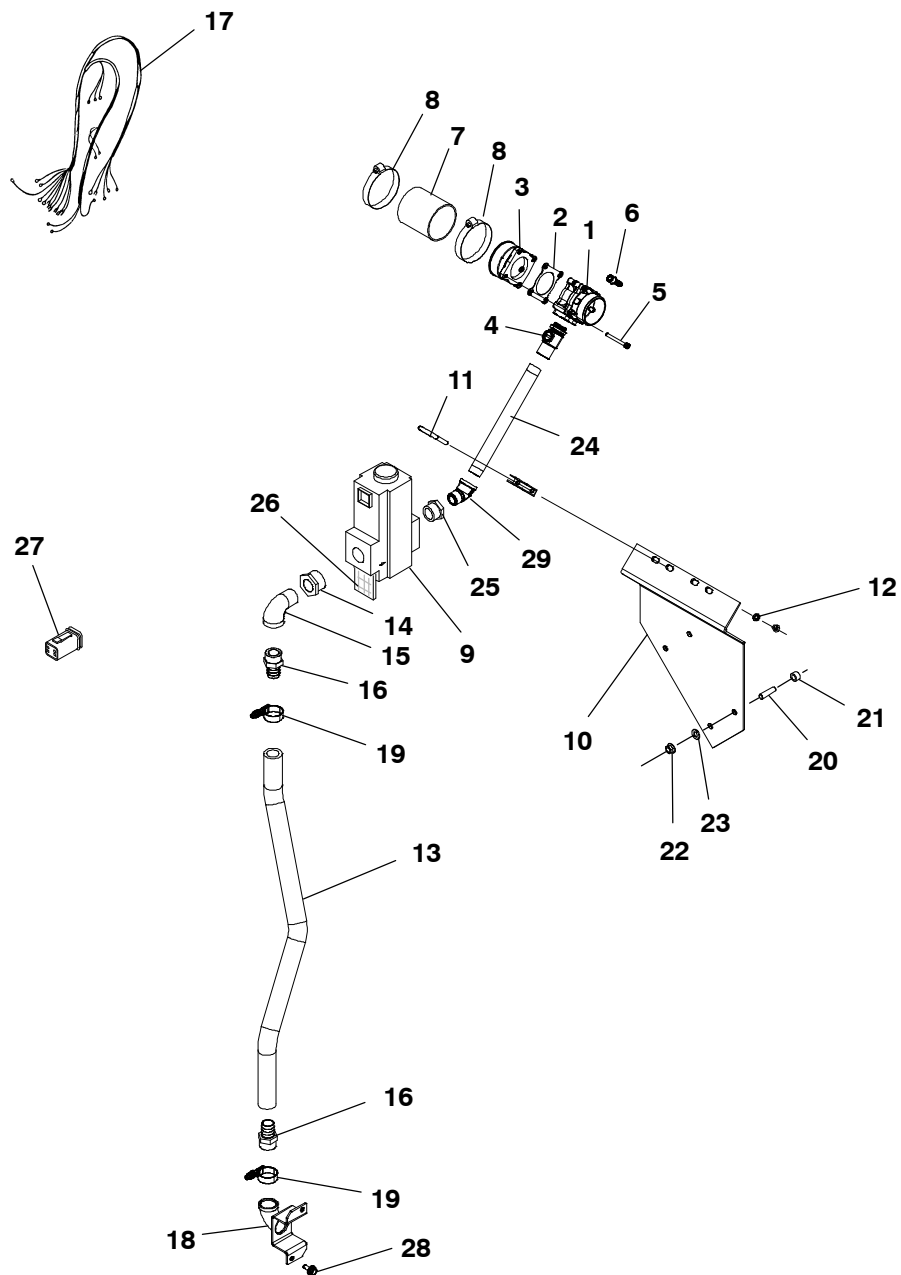
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1200-02	1	Mixer – ITB	30	503-0183	4	Clamp, Hose
2	145-0813	1	Gasket, Throttle Body	31	502-1006	1	Connector, Hose (1/2 x 5/8)
3	148-1237	1	Adapter, Mixer	32	505-0040	1	Elbow, Pipe
4	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	33	502-0827	1	Hose, Barb
5	A034B904	1	Control	34	503-1194	1	Hose
6	502-1494	1	Connector, Hose	35	503-1870-01	2	Clamp, Hose
7	505-1526	1	Nipple, Pipe (3/4 x 10.00)	36	505-0107	2	Nipple, Pipe (1 x 2.00)
8	148-1181	1	Hose, Mixer Adapter	37	505-0304	1	Tee, Pipe
9	503-1870-05	2	Clamp, Hose	38	505-0479	1	Cap, Pipe
10	505-0129	1	Bushing, Reducer (1 x 3/4)	39	505-0087	1	Nipple, Pipe (1 x 3.00)
11	148-1321	1	Regulator, Fuel – Dual Shutoff	40	505-0041	1	Elbow, Pipe
	504-0314	1	Solenoid, Valve – Replacement	41	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45)
12	155-1256	1	Clamp, Muffler (1.50")	42	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
13	148-1330-02	1	Bracket, Fuel System	43	503-2353-04	1	Hose, Fuel (LP)
14	526-0022	2	Washer, Flat	44	332-3196	2	Clamp, J
15	505-0023	1	Bushing, Reducer (1-1/4 x 1)	45	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
16	505-0003	1	Elbow, Street – 90°	46	526-0018	1	Washer, Flat (1/4)
17	502-1110-01	2	Connector, Hose	47	750-1004	1	Nut, Hex (M6 x 1)
18	403-4496-02	4	Spacer, Motor Mount	48	503-2157-02	2	Clamp, Hose
19	520-1025-03	4	Stud (M10 x 1.5 x 54)	49	502-0943	1	Connector, Hose (3/8 x 5/8)
20	870-2065-04	4	Nut, Hex – Flange (M10 x 1.5)	50	338-4838	1	Harness, Extension
21	526-2120	1	Washer, Flat (M10)	51	338-4839	1	Harness, Engine
22	148-1248-02	1	Bracket, Converter	52	338-4725-02	1	Harness, Plug (Fuel Select)
23	148-1240	1	Converter, LP	53			Filter, Dungs
24	502-0054	1	Elbow, Street – Pipe		149-2829-01	1	One Filter
25	505-0099	1	Nipple, Pipe (1/4 x .88)		149-2829-02	1	Ten Pack
26	307-0268	1	Valve, Solenoid	54	505-0691	1	Elbow, Pipe (3/4)
27	502-0942	1	Elbow, Hose – 90° (3/8 x 5/8)				
28	503-2293-04	1	Hose, Coolant				
29	503-2293-05	1	Hose, Coolant				

This exploded view diagram illustrates the assembly of a medical device, likely a catheter or probe. The components are numbered 1 through 54. The assembly includes a main shaft (28) with a handle (22) and a distal tip (29). A control unit (11) is connected to the handle via a cable (50). The handle features a trigger (12) and a display (13). The distal tip is connected to a cable (51) and a connector (52). The assembly also includes various fittings, connectors, and a control panel (14) with buttons (15, 16, 17, 18, 19, 20, 21, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54).

**Fuel System
Propane Liquid
GGHG/GGHH (Spec J-K)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1200-02	1	Mixer – ITB	30	503-0183	4	Clamp, Hose
2	145-0813	1	Gasket, Throttle Body	31	502-1006	1	Connector, Hose (1/2 x 5/8)
3	148-1237	1	Adapter, Mixer	32	505-0040	1	Elbow, Pipe
4	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	33	502-0827	1	Hose, Barb
5	A034B904	1	Control	34	503-1194	1	Hose
6	502-1494	1	Connector, Hose	35	503-1870-01	2	Clamp, Hose
7	505-1526	1	Nipple, Pipe (3/4 x 10.00)	36	505-0107	2	Nipple, Pipe (1 x 2.00)
8	148-1181	1	Hose, Mixer Adapter	37	505-0304	1	Tee, Pipe
9	503-1870-05	2	Clamp, Hose	38	505-0479	1	Cap, Pipe
10	505-0129	1	Bushing, Reducer (1 x 3/4)	39	505-0087	1	Nipple, Pipe (1 x 3.00)
11	A026H151	1	Regulator, Fuel – Dual Shutoff	40	505-0041	1	Elbow, Pipe
	504-0314	1	Solenoid, Valve – Replacement	41	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45)
12	155-1256	1	Clamp, Muffler (1.50")	42	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
13	148-1330-02	1	Bracket, Fuel System	43	503-2353-04	1	Hose, Fuel (LP)
14	526-0022	2	Washer, Flat	44	332-3196	2	Clamp, J
15	505-0023	1	Bushing, Reducer (1-1/4 x 1)	45	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
16	505-0003	1	Elbow, Street – 90°	46	526-0018	1	Washer, Flat (1/4)
17	502-1110-01	2	Connector, Hose	47	750-1004	1	Nut, Hex (M6 x 1)
18	403-4496-02	4	Spacer, Motor Mount	48	503-2157-02	2	Clamp, Hose
19	520-1025-03	4	Stud (M10 x 1.5 x 54)	49	502-0943	1	Connector, Hose (3/8 x 5/8)
20	870-2065-04	4	Nut, Hex – Flange (M10 x 1.5)	50	338-4838	1	Harness, Extension
21	526-2120	1	Washer, Flat (M10)	51	338-4839	1	Harness, Engine
22	148-1248-02	1	Bracket, Converter	52	338-4725-02	1	Harness, Plug (Fuel Select)
23	148-1240	1	Converter, LP	53			Filter, Dungs
24	502-0054	1	Elbow, Street – Pipe		149-2829-01	1	One Filter
25	505-0099	1	Nipple, Pipe (1/4 x .88)		149-2829-02	1	Ten Pack
26	307-0268	1	Valve, Solenoid	54	505-0691	1	Elbow, Pipe (3/4)
27	502-0942	1	Elbow, Hose – 90° (3/8 x 5/8)				
28	503-2293-04	1	Hose, Coolant				
29	503-2293-05	1	Hose, Coolant				

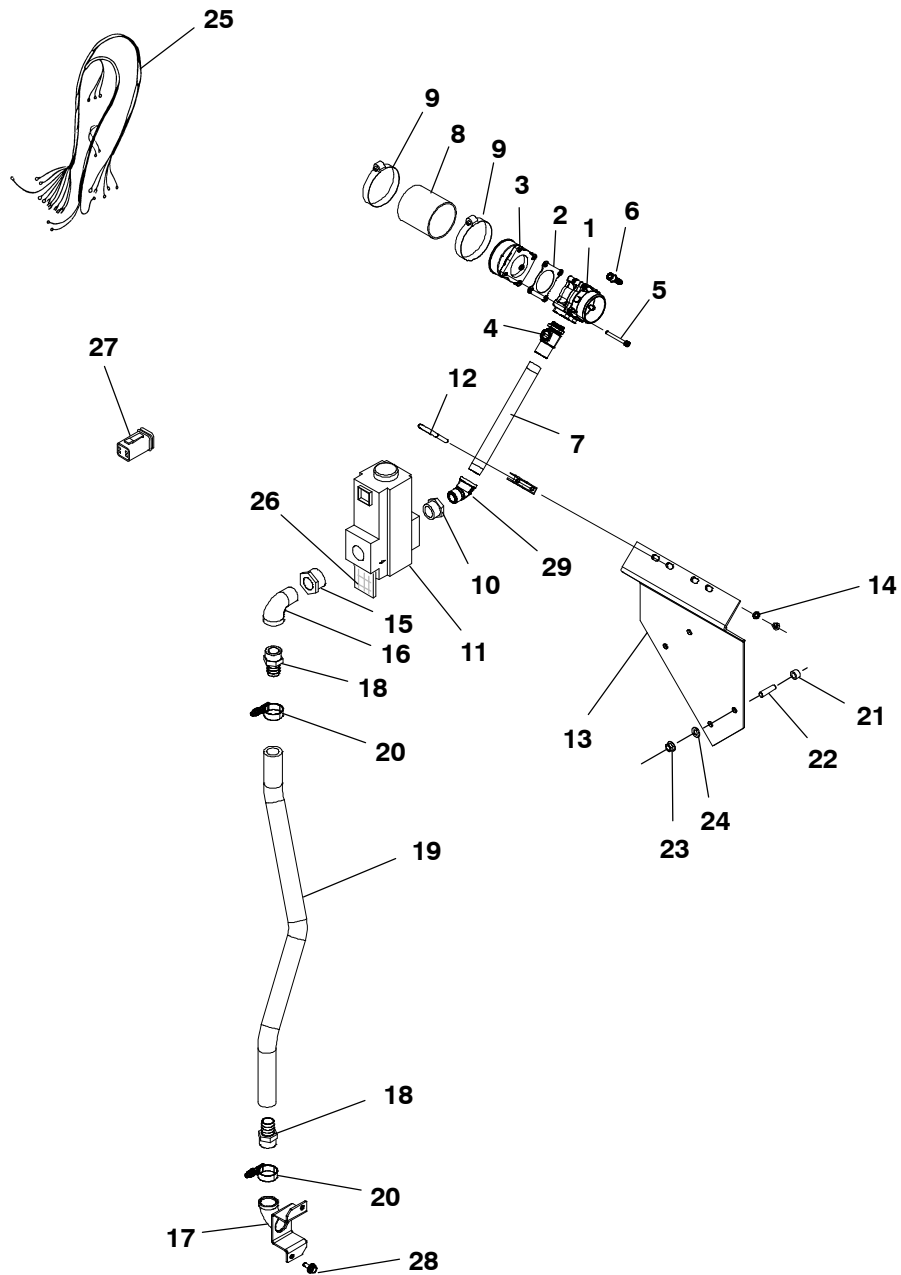
Fuel System **Propane Vapor** **GGHG/GGHH (Spec F-G)**



**Fuel System
Propane Vapor
GGHG/GGHH (Spec F-G)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1200-02	1	Mixer – ITB	16	502-1110-01	2	Connector, Hose
2	145-0813	1	Gasket, Throttle Body	17	338-4838	1	Harness, Extension
3	148-1237	1	Adapter, Mixer	18	512-0310-02	1	Coupling Assembly
4	504-0210	1	Valve, Fuel	19	503-2157-02	2	Clamp, Hose
5	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	20	520-1025-03	4	Stud (M10 x 1.5 x 54)
6	502-1494	1	Connector, Hose	21	403-4496-02	4	Spacer, Motor Mount
7	148-1181	1	Hose, Mixer Adapter	22	870-2065-04	4	Nut, Hex – Flange (M10 x 1.5)
8	503-1870-05	2	Clamp, Hose	23	526-2120	1	Washer, Flat (M10)
9	148-1321	1	Regulator, Fuel – Dual Shutoff	24	505-1526	1	Nipple, Pipe (3/4 x 10.00)
	504-0314	1	Solenoid, Valve – Replacement	25	505-0129	1	Bushing, Reducer (1 x 3/4)
10	148-1330-02	1	Bracket, Fuel System	26			Filter, Dungs
11	155-1256	1	Clamp, Muffler (1.50")		149-2829-01	1	One Filter
12	526-0022	2	Washer, Flat		149-2829-02	1	Ten Pack
13	503-2353-09	1	Hose, Fuel (LP)	27	338-4725-02	1	Harness, Plug – Fuel Select
14	505-0023	1	Bushing, Reducer (1-1/4 x 1)	28	821-6007-02	2	Screw, Hex Head (M8 x 1.25 x 20)
15	505-0003	1	Elbow, Street – 90°	29	505-0691	1	Elbow, Pipe (3/4)

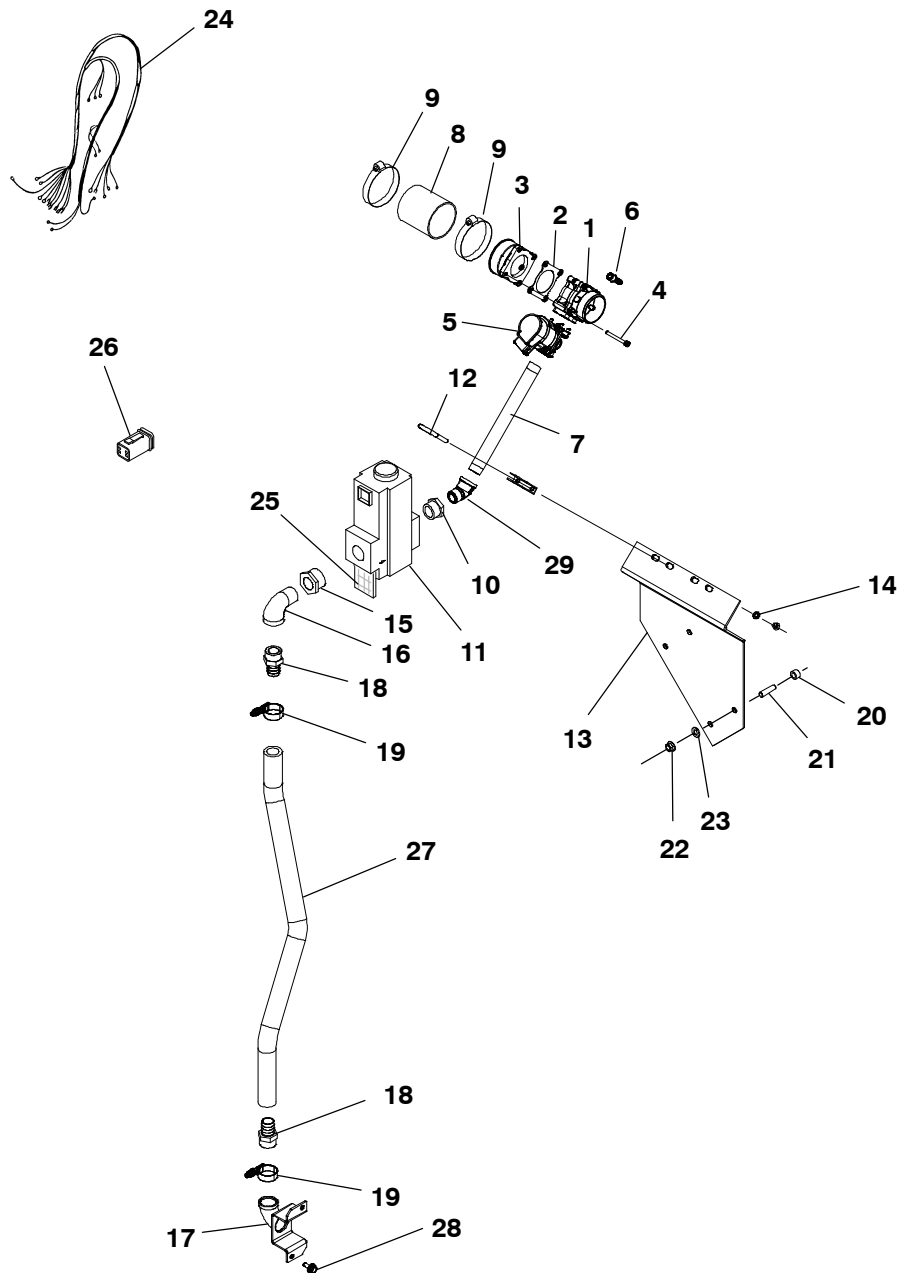
Fuel System **Propane Vapor** **GGHG/GGHH (Spec H)**



**Fuel System
Propane Vapor
GGHG/GGHH (Spec H)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1200-02	1	Mixer – ITB	16	505-0003	1	Elbow, Street – 90°
2	145-0813	1	Gasket, Throttle Body	17	512-0310-02	1	Coupling Assembly
3	148-1237	1	Adapter, Mixer	18	502-1110-01	2	Connector, Hose
4	504-0210	1	Valve, Fuel	19	503-2353-09	1	Hose, Fuel (LP)
5	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	20	503-2157-02	2	Clamp, Hose
6	502-1494	1	Connector, Hose	21	403-4496-02	4	Spacer, Motor Mount
7	505-1526	1	Nipple, Pipe (3/4 x 10.00)	22	520-1025-03	4	Stud (M10 x 1.5 x 54)
8	148-1181	1	Hose, Mixer Adapter	23	870-2065-04	4	Nut, Hex – Flange (M10 x 1.5)
9	503-1870-05	2	Clamp, Hose	24	526-2120	1	Washer, Flat (M10)
10	505-0129	1	Bushing, Reducer (1 x 3/4)	25	338-4838	1	Harness, Extension
11	148-1321	1	Regulator, Fuel – Dual Shutoff	26			Filter, Dungs
	504-0314	1	Solenoid, Valve – Replacement		149-2829-01	1	One Filter
12	155-1256	1	Clamp, Muffler (1.50")		149-2829-02	1	Ten Pack
13	148-1330-02	1	Bracket, Fuel System	27	338-4725-02	1	Harness, Plug – Fuel Select
14	526-0022	2	Washer, Flat	28	821-6007-02	2	Screw, Hex Head (M8 x 1.25 x 20)
15	505-0023	1	Bushing, Reducer (1-1/4 x 1)	29	505-0691	1	Elbow, Pipe (3/4)

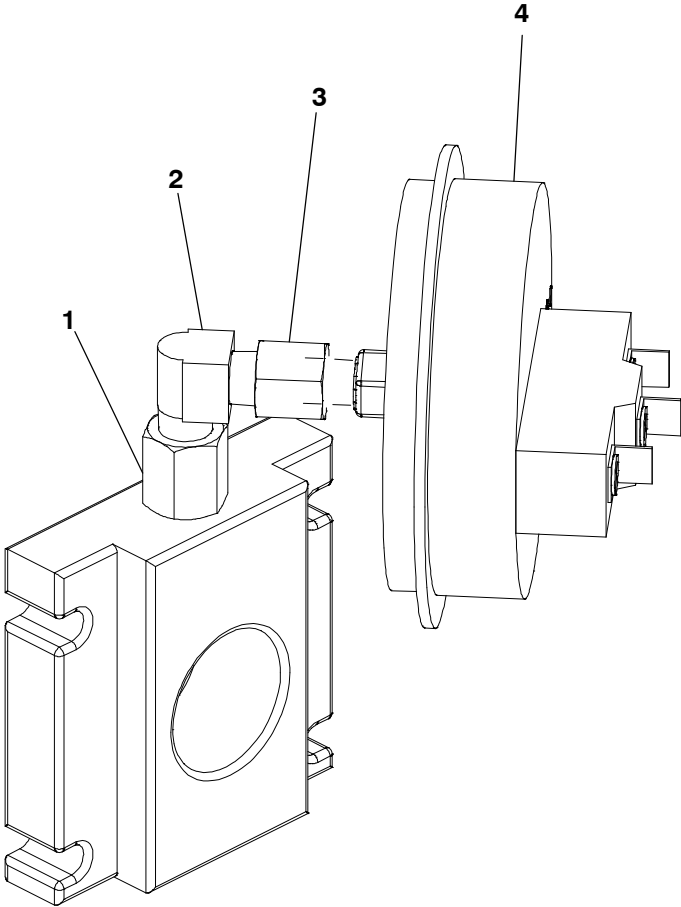
**Fuel System
Propane Vapor
GGHG/GGHH (Spec J-K)**



**Fuel System
Propane Vapor
GGHG/GGHH (Spec J-K)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1200-02	1	Mixer – ITB	16	505-0003	1	Elbow, Street – 90°
2	145-0813	1	Gasket, Throttle Body	17	512-0310-02	1	Coupling Assembly
3	148-1237	1	Adapter, Mixer	18	502-1110-01	2	Connector, Hose
4	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	19	503-2157-02	2	Clamp, Hose
5	A034B904	1	Control	20	403-4496-02	4	Spacer, Motor Mount
6	502-1494	1	Connector, Hose	21	520-1025-03	4	Stud (M10 x 1.5 x 54)
7	505-1526	1	Nipple, Pipe (3/4 x 10.00)	22	870-2065-04	4	Nut, Hex – Flange (M10 x 1.5)
8	148-1181	1	Hose, Mixer Adapter	23	526-2120	1	Washer, Flat (M10)
9	503-1870-05	2	Clamp, Hose	24	338-4838	1	Harness, Extension
10	505-0129	1	Bushing, Reducer (1 x 3/4)	25			Filter, Dungs
11	A026H151	1	Regulator, Fuel – Dual Shutoff		149-2829-01	1	One Filter
	504-0314	1	Solenoid, Valve – Replacement		149-2829-02	1	Ten Pack
12	155-1256	1	Clamp, Muffler (1.50")	26	338-4725-02	1	Harness, Plug – Fuel Select
13	148-1330-02	1	Bracket, Fuel System	27	503-2353-09	1	Hose
14	526-0022	2	Washer, Flat	28	821-6007-02	2	Screw, Hex Head (M8 x 1.25 x 20)
15	505-0023	1	Bushing, Reducer (1-1/4 x 1)	29	505-0691	1	Elbow, Pipe (3/4)

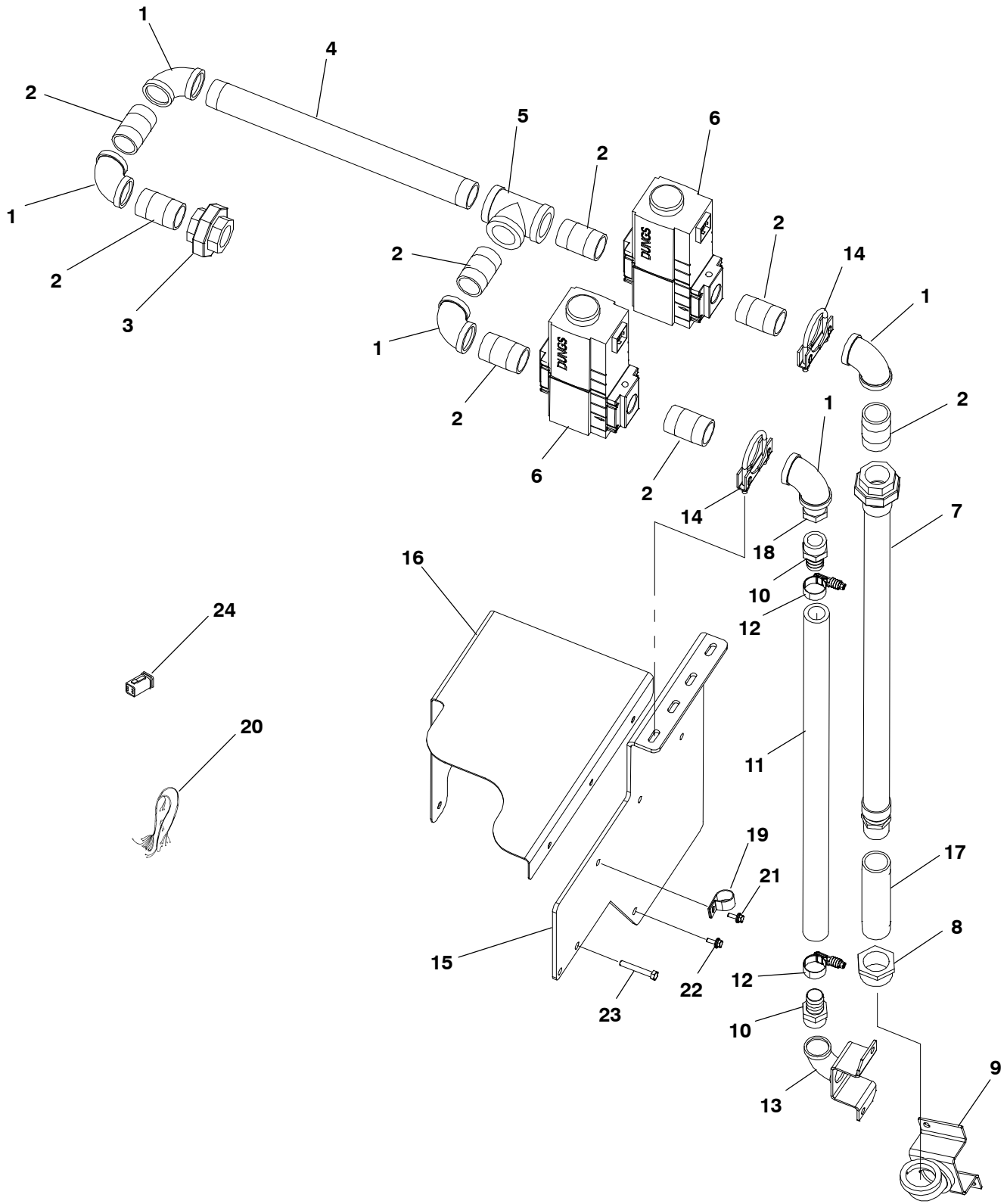
Low Fuel Pressure Switch
GGHG/GGHH (Begin Spec F)
GGHJ (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-0917	1	Adapter, Pipe (1/8 x 1/8-20)	4			Switch, Low Pressure (Spec F-M)
2	502-0020-01	1	Elbow, Street - 90°	309-0669	1		(Spec N)
3	502-0175	1	Adapter, Pipe (1/8)	A040S001	1		

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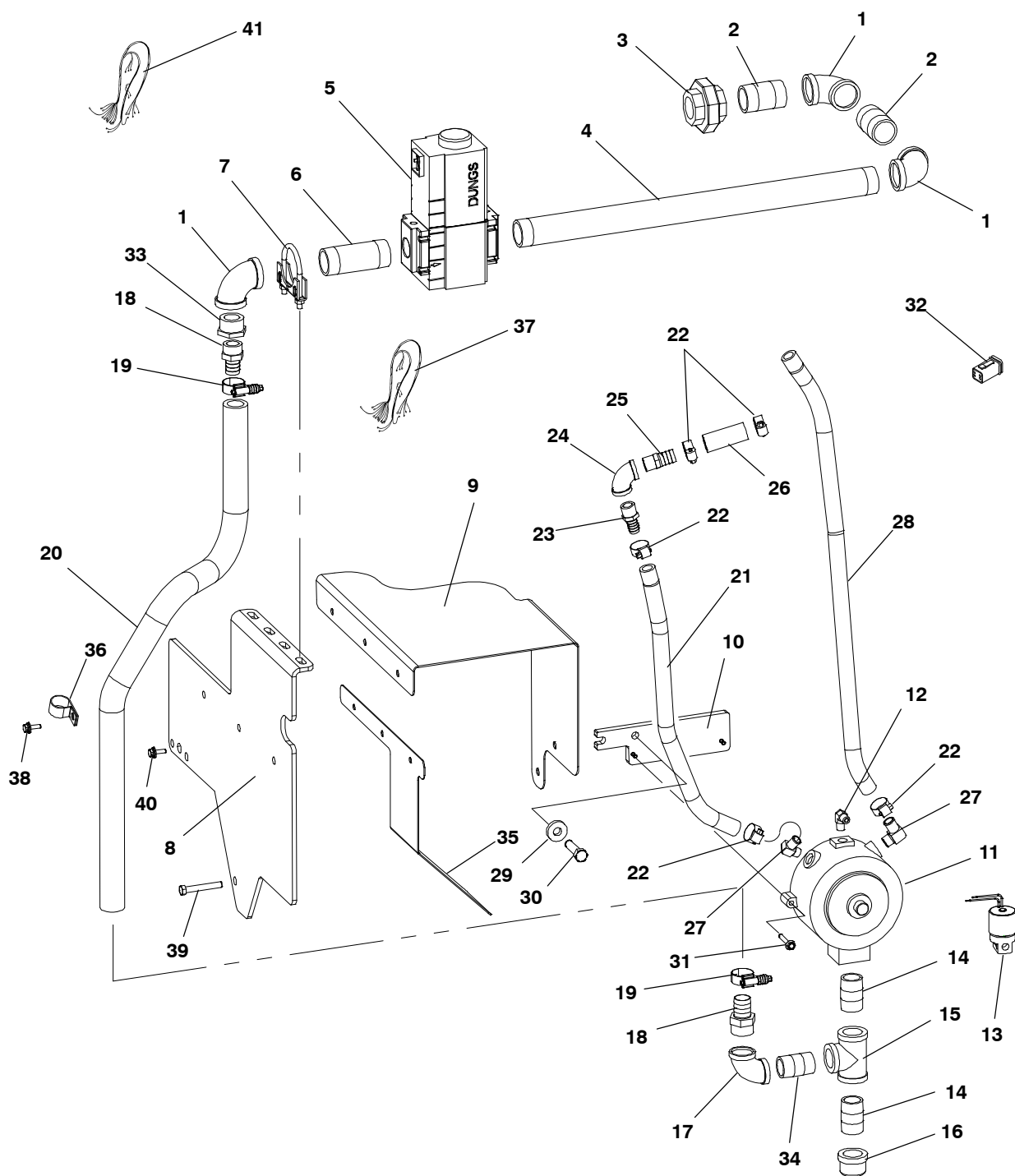
Fuel System
Dual Fuel Natural Gas / Propane Vapor
GGHG/GGHH (Begin Spec L)



Fuel System
Dual Fuel Natural Gas / Propane Vapor
GGHG/GGHH (Begin Spec L)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0042	5	Elbow, Pipe	13	512-0310-02	1	Coupling
2	505-0092	7	Fitting, Nipple	14	155-2548	2	Clamp
3	A034C563	1	Fitting, Union	15	A032Y187	1	Bracket, Mounting
4	A034C555	1	Fitting, Nipple	16	A032Y619	1	Shield
5	A034C561	1	Fitting, Pipe Tee	17	505-0157	1	Fitting, Nipple
6	A030Z459	2	Valve, Solenoid	18	505-0023	1	Bushing, Reducer
7	501-0776-04	1	Line, Fuel	19	518-0548-02	1	Clamp
8	505-0025	1	Bushing, Reducer	20	338-4838	2	Harness, Extension
9	512-0288-02	1	Coupling	21	821-6003-02	3	Screw, Hex Head
10	502-1110-01	2	Fitting, Hose Connector	22	800-3017-44	1	Screw, Hex Head
11	503-2353-04	1	Hose, Fuel	23	800-3017-46	1	Screw, Hex Head
12	503-2157-02	2	Clamp	24	338-4725-03	1	Harness, Plug

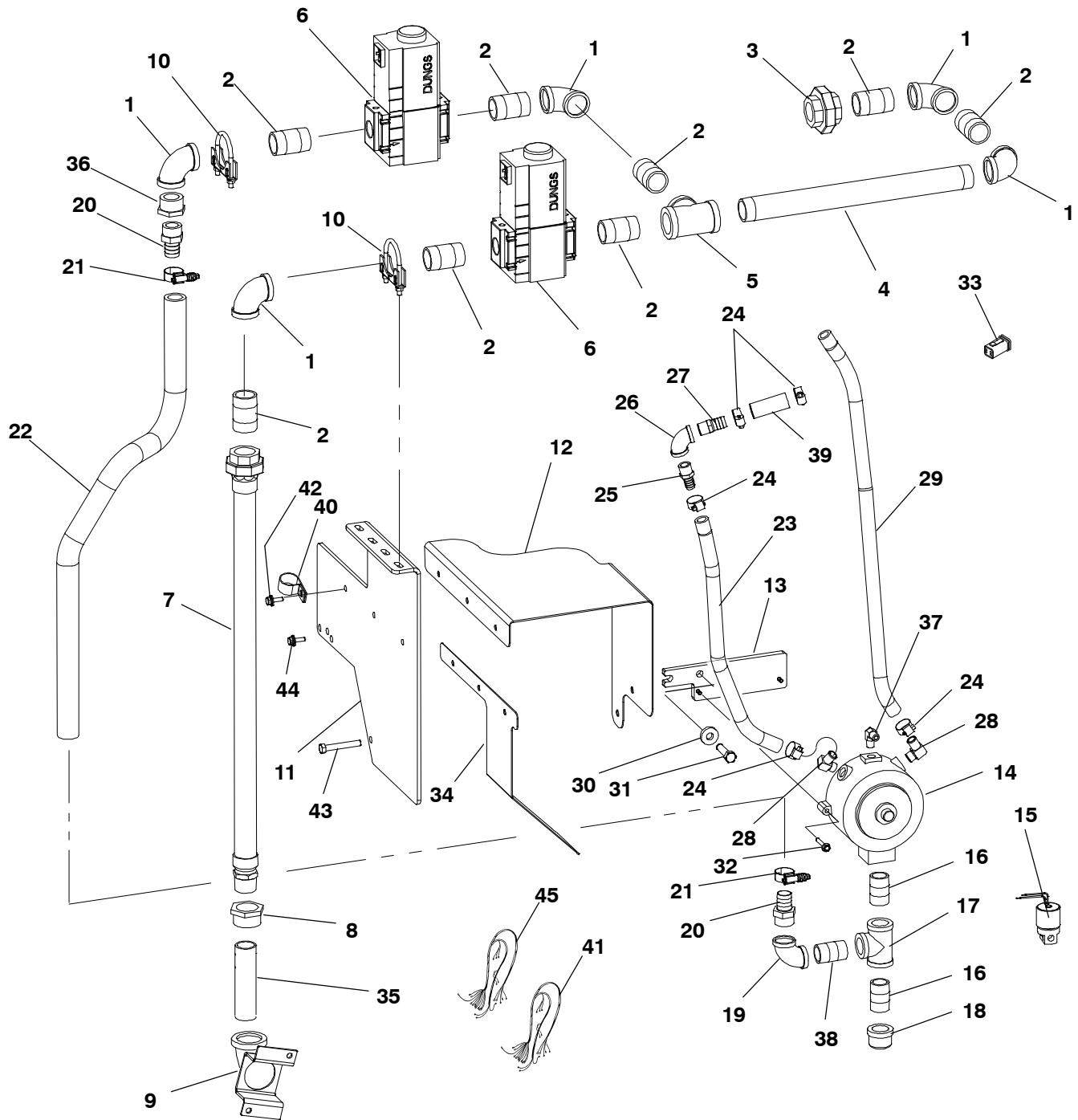
Fuel System **Single Fuel Liquid Propane** **GGHG/GGHH (Begin Spec L)**



Fuel System
Single Fuel Liquid Propane
GGHG/GGHH (Begin Spec L)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0042	3	Elbow, Pipe	22	503-0183	6	Clamp
2	505-0092	2	Fitting, Nipple	23	502-1006	1	Fitting, Hose Barb
3	A034C563	1	Fitting, Union	24	505-0040	1	Elbow, Pipe
4	A034C554	1	Fitting, Nipple	25	502-0827	1	Fitting, Hose Barb
5	A030Z459	1	Valve, Solenoid	26	503-1194	1	Hose
6	505-0653	1	Fitting, Nipple	27	502-0942	2	Elbow, 90° Hose
7	155-2548	1	Clamp	28	503-2293-01	1	Hose, Coolant
8	A032Y187	1	Bracket, Mounting	29	526-0393	2	Washer, Flat
9	A032Y619	1	Shield	30	800-2116	2	Screw, Hex Head
10	A035A926	1	Bracket, Mounting	31	815-0924	2	Screw, Hollow Head
11	148-1240	1	Converter	32	338-4725-02	1	Harness, Plug
12	502-1140	1	Elbow - 90° Male	33	505-0023	1	Bushing, Reducer
13	307-0268	1	Valve, Solenoid	34	505-0087	1	Fitting, Nipple
14	505-0107	3	Fitting, Nipple	35	A034Y036	1	Shield, Heat
15	505-0304	1	Tee, Pipe	36	518-0548-02	2	Clamp
16	505-0479	1	Cap, Pipe	37	338-4838	1	Harness, Extension
17	505-0041	1	Elbow, Pipe	38	821-6003-02	3	Screw, Hex Head
18	502-1110-01	2	Fitting, Hose Connector	39	800-3017-44	1	Screw, Hex Head
19	503-2157-02	2	Clamp	40	800-3017-46	1	Screw, Hex Head
20	503-2353-10	1	Hose, Fuel	41	338-4839	1	Harness, Engine
21	503-2293-08	1	Hose, Coolant				

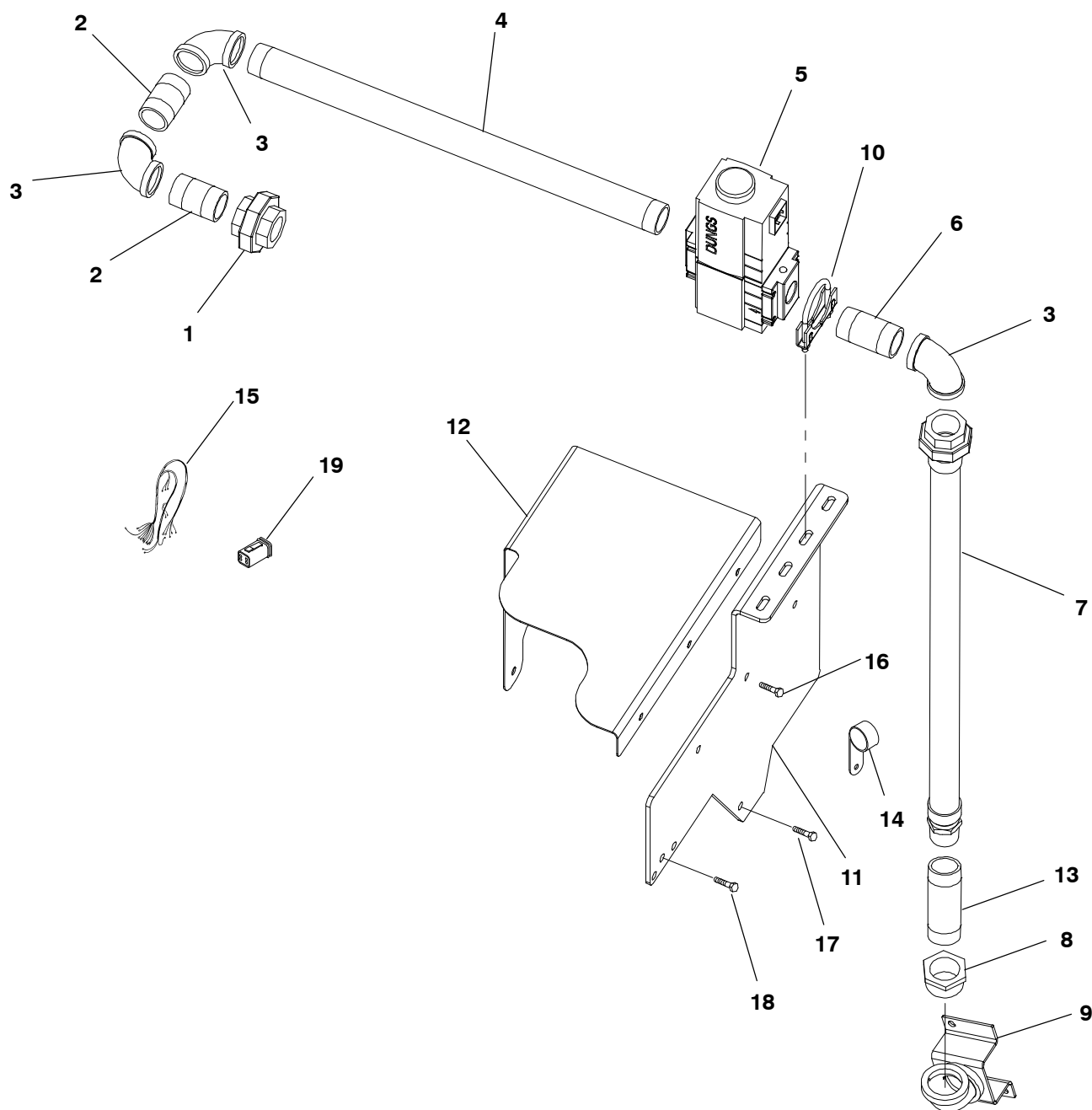
Fuel System **Dual Fuel Natural Gas/Liquid Propane** **GGHG/GGHH (Begin Spec L)**



Fuel System
Dual Fuel Natural Gas/Liquid Propane
GGHG/GGHH (Begin Spec L)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0042	5	Elbow, Pipe	24	503-0183	5	Clamp
2	505-0092	7	Fitting, Nipple	25	502-1006	1	Fitting, Hose Barb
3	A034C563	1	Fitting, Union	26	505-0040	1	Elbow, Pipe
4	A034C555	1	Fitting, Nipple	27	502-0827	1	Fitting, Hose Barb
5	A034C561	1	Fitting, Pipe Tee	28	502-0942	2	Elbow, 90° Hose
6	A030Z459	2	Valve, Solenoid	29	503-2293-01	1	Hose, Coolant
7	501-0776-04	1	Line, Fuel	30	526-0393	2	Washer, Flat
8	505-0025	1	Bushing, Reducer	31	800-2116	2	Screw, Hex Head
9	512-0288-02	1	Coupling	32	815-0924	2	Screw, Hollow Head
10	155-2548	2	Clamp	33	338-4725-03	1	Harness, Plug
11	A032Y187	1	Bracket, Mounting	34	A034Y036	1	Shield, Heat
12	A032Y619	1	Shield	35	505-0157	1	Fitting, Nipple
13	A035A926	1	Bracket	36	505-0023	1	Bushing, Reducer
14	148-1240	1	Converter	37	502-1140	1	Elbow, 90° Male
15	307-0268	1	Valve, Solenoid	38	505-0087	1	Fitting, Nipple
16	505-0107	2	Fitting, Nipple	39	503-1194	1	Hose
17	505-0304	1	Tee, Pipe	40	518-0548-02	2	Clamp
18	505-0479	1	Cap, Pipe	41	338-4838	2	Harness, Extension
19	505-0041	1	Elbow, Pipe	42	821-6003-02	3	Screw, Hex Head
20	502-1110-01	2	Fitting, Hose Connector	43	800-3017-44	1	Screw, Hex Head
21	503-2157-02	2	Clamp	44	800-3017-46	1	Screw, Hex Head
22	A050B065	1	Hose, Fuel	45	338-4839	1	Harness, Engine
23	503-2293-08	1	Hose, Coolant				

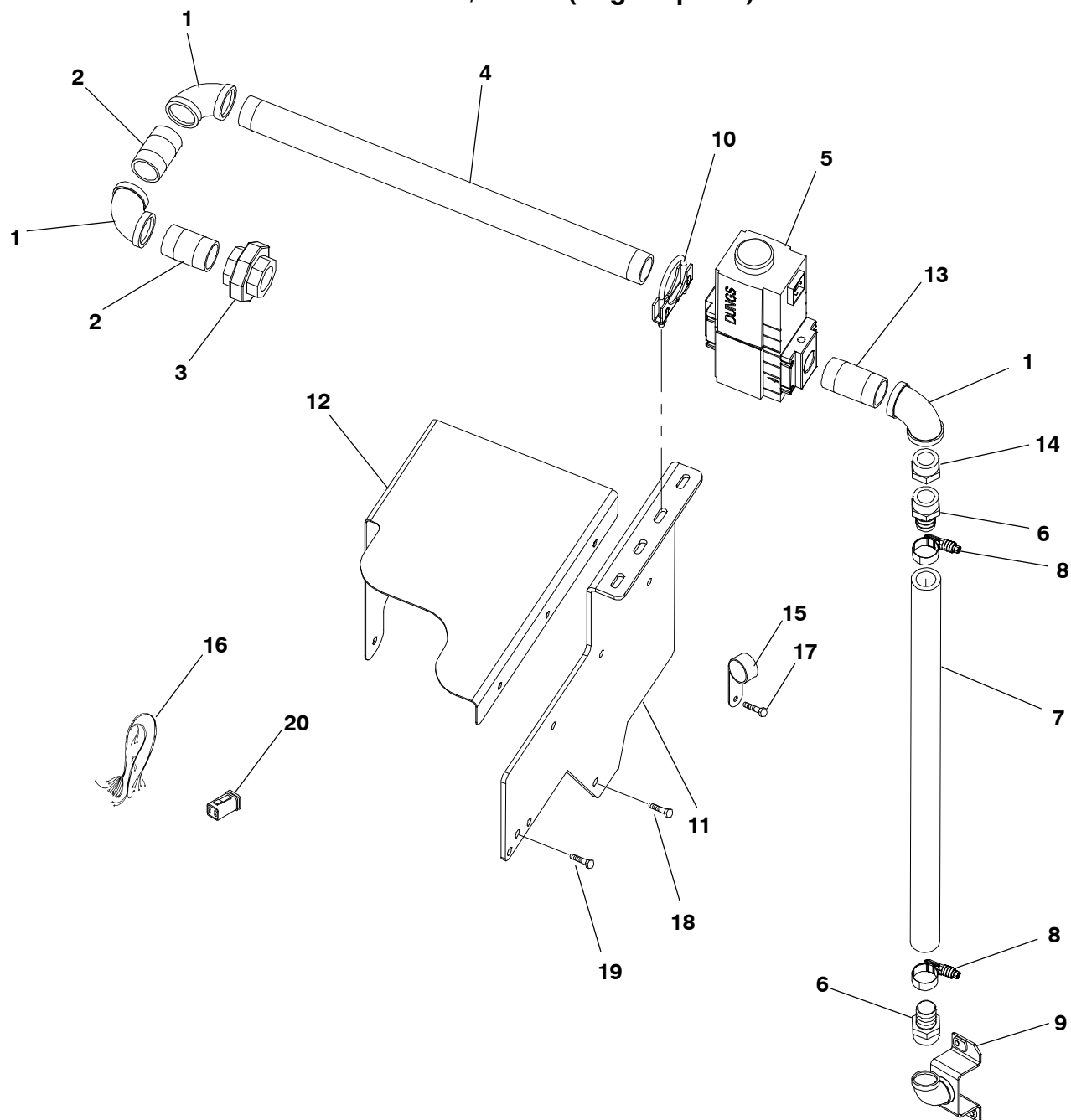
Fuel System
Single Fuel Natural Gas
GGHG/GGHH (Begin Spec L)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A034C563	1	Fitting, Union
2	505-0092	2	Fitting, Nipple
3	505-0042	3	Elbow, Pipe
4	A034C554	1	Fitting, Nipple
5	A030Z459	1	Valve, Solenoid
6	505-0653	1	Fitting, Nipple
7	501-0776-04	1	Line, Fuel
8	505-0025	1	Bushing, Reducer
9	512-0288-02	1	Coupling
10	155-2548	1	Clamp

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	A032Y187	1	Bracket, Mounting
12	A032Y619	1	Shield
13	505-0157	1	Fitting, Nipple
14	518-0548-02	1	Clamp, Hose
15	338-4838	1	Harness, Extension
16	821-6003-02	3	Screw, Hex Head
17	800-3017-44	1	Screw, Hex Head
18	800-3017-46	1	Screw, Hex Head
19	338-4725-01	1	Harness, Plug

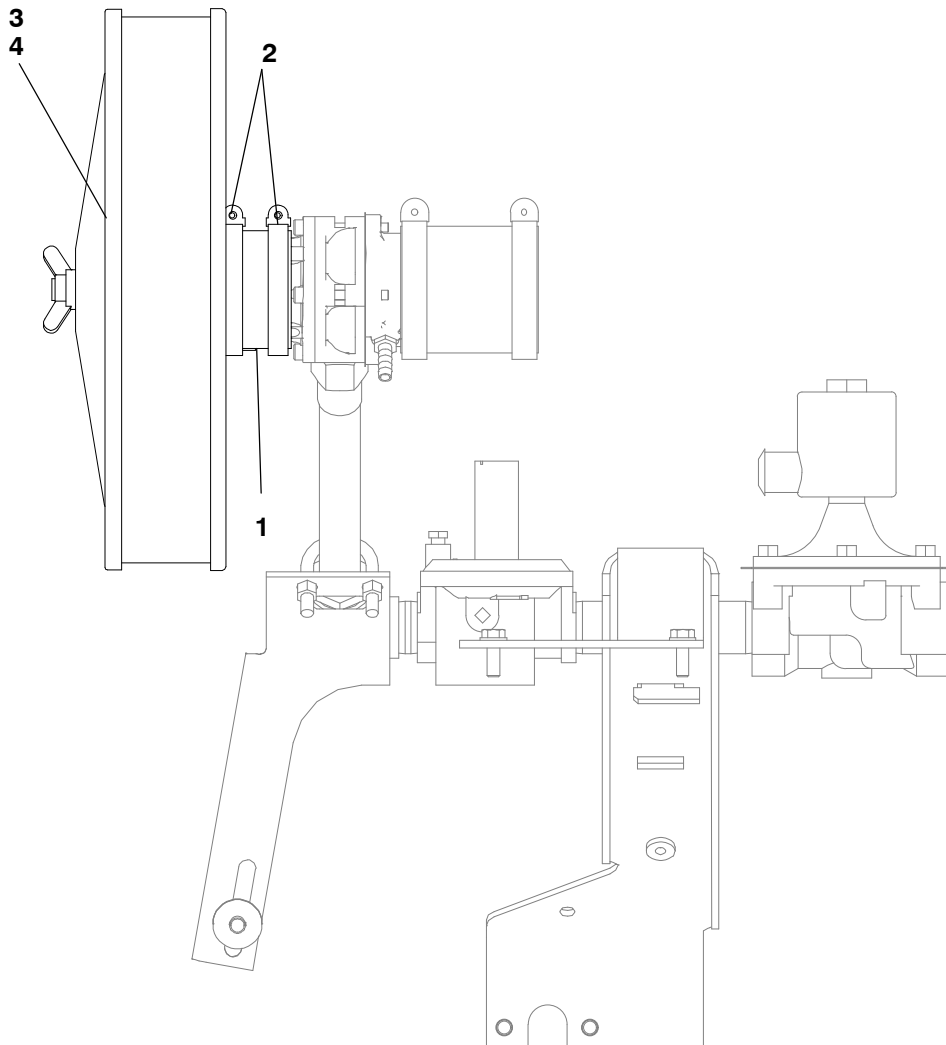
Fuel System **Single Fuel Propane Vapor** **GGHG/GGHH (Begin Spec L)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0042	3	Elbow, Pipe
2	505-0092	2	Fitting, Nipple
3	A034C563	1	Fitting, Union
4	A034C554	1	Fitting, Nipple
5	A030Z459	1	Valve, Solenoid
6	502-1110-01	2	Fitting, Hose Connector
7	503-2353-04	1	Hose, Fuel
8	503-2157-02	2	Clamp
9	512-0310-02	1	Coupling
10	155-2548	1	Clamp

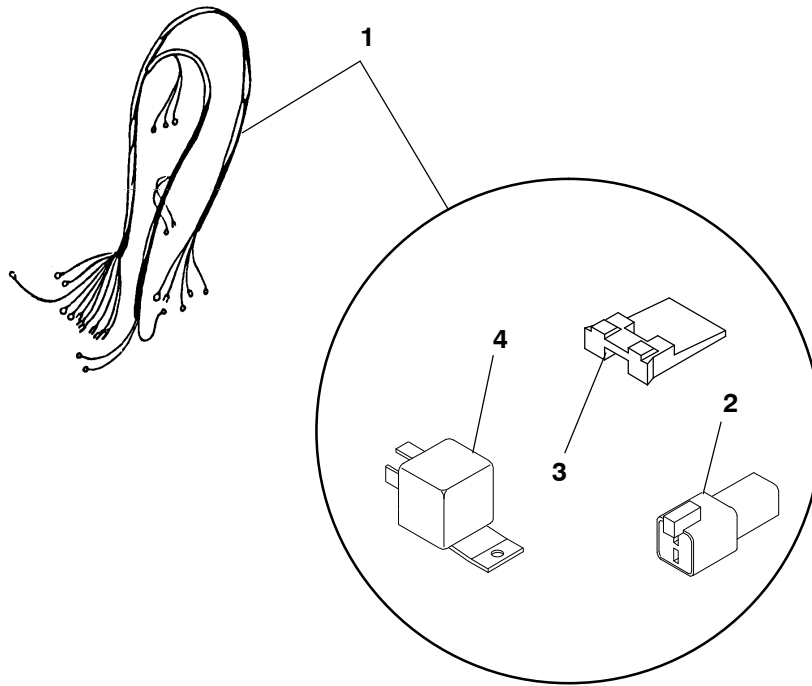
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	A032Y187	1	Bracket, Mounting
12	A032Y619	1	Shield
13	505-0653	1	Fitting, Nipple
14	505-0023	1	Bushing, Reducer
15	518-0548-02	1	Clamp
16	338-4838	1	Harness, Extension
17	821-6003-02	3	Screw, Hex Head
18	800-3017-44	1	Screw, Hex Head
19	800-3017-46	1	Screw, Hex Head
20	338-4725-02	1	Harness, Plug

**Air Cleaner
Standard
GGHG/GGHH (Spec E-K)**



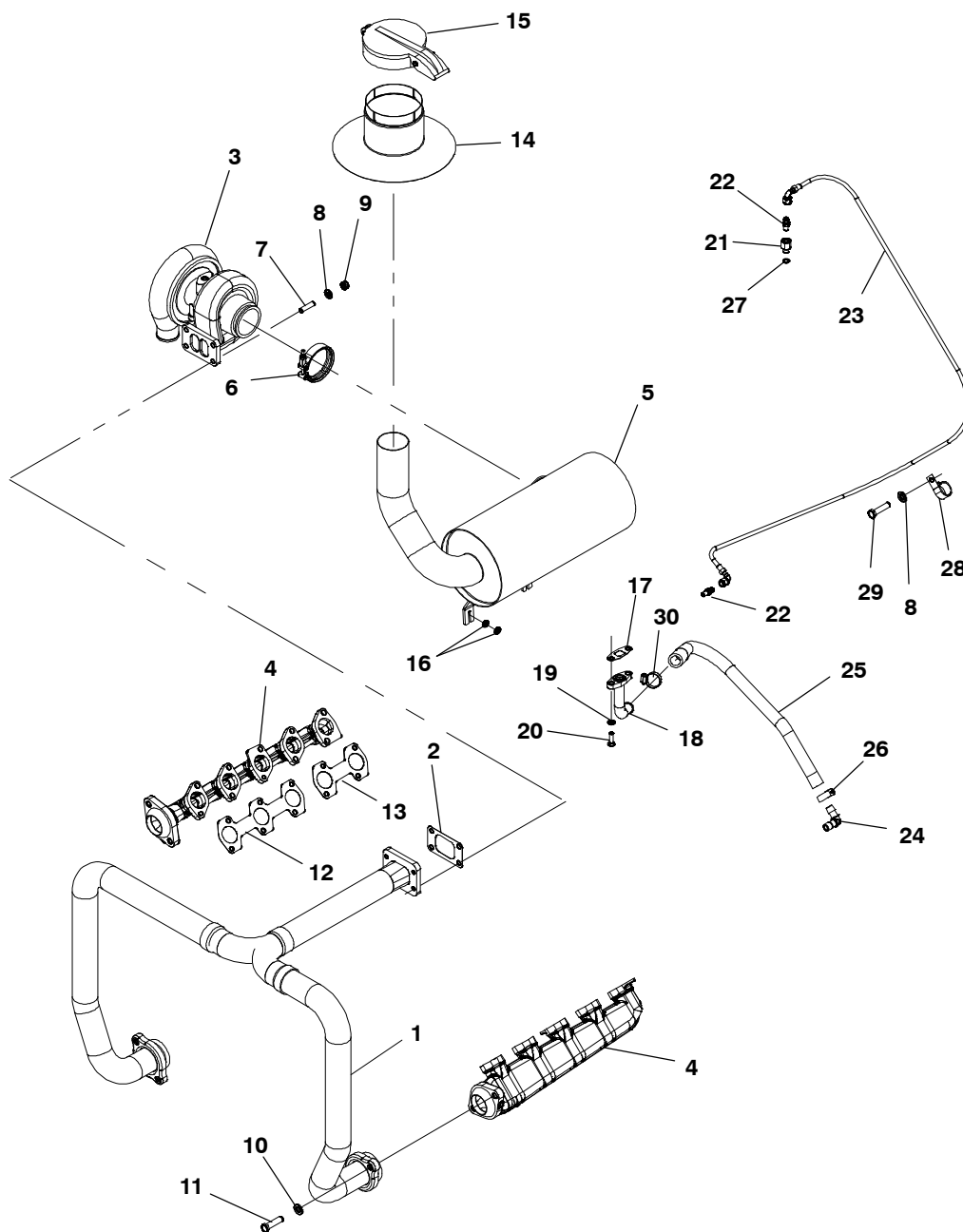
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-2247	1	Hose, Air	3	140-3311	1	Cleaner, Air
2	503-1144	2	Screw, Hose Clamp	4	140-3151	1	Element, Replacement

Alarm Harness Single and Dual Fuel



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

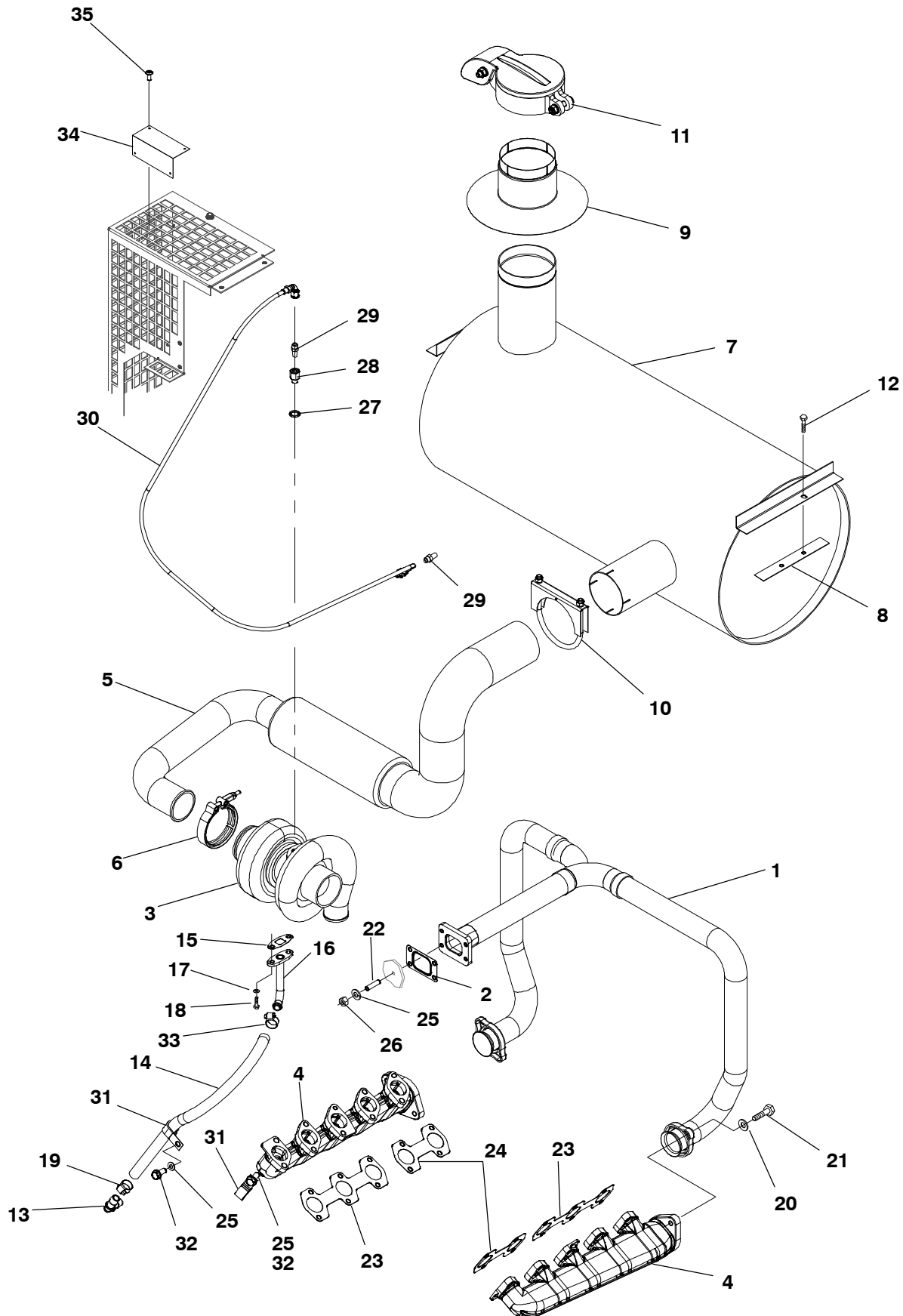
Exhaust System With F182 Housing GGHG/GGHH (Spec E-H)



**Exhaust System
With F182 Housing
GGHG/GGHH (Spec E-H)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3110	1	Tube, Exhaust	17	127-0412	1	Gasket, Oil Drain
2	C0127032400	1	Gasket, Turbocharger	18	145-0818-02	1	Tube, Oil Drain
3	145-0795	1	Turbocharger	19	850-2008	2	Washer, Lock – Split (M8)
4	154-3094	2	Manifold, Exhaust	20	800-2059	2	Screw, Cap – Hex Head (M8 x 1.25 x 30)
5	155-3395	1	Muffler, Exhaust	21	502-1381	1	Connector, Restricted
6	155-2565	1	Clamp, V-Band	22	502-1240	2	Adapter, Pipe
7	520-2407	4	Stud (M10 x 1.5 x 40)	23	127-0441	1	Tube, Turbo Feed
8	526-2120	6	Washer, Flat (M10)	24	502-1372	1	Elbow, Hose – Barb
9	870-2056	4	Nut, Hex (M10 x 1.5)	25	503-2236	1	Hose, Turbo – Drain
10	526-2140	4	Washer, Flat (M12)	26	503-0183	1	Clamp, Hose
11	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)	27	509-0290-04	1	Seal, O-Ring (5/16)
12	154-3105	2	Gasket, Exhaust Manifold	28	327-0923	2	Clamp, J
13	154-3106	2	Gasket, Exhaust Manifold	29	800-2085	2	Screw, Cap – Hex Head (M10 x 1.5 x 20)
14	155-3102-02	1	Shield, Rain				
15	155-2062-10	1	Cap, Rain	30	503-1136	1	Clamp, Hose
16	526-0018	4	Washer, Flat				

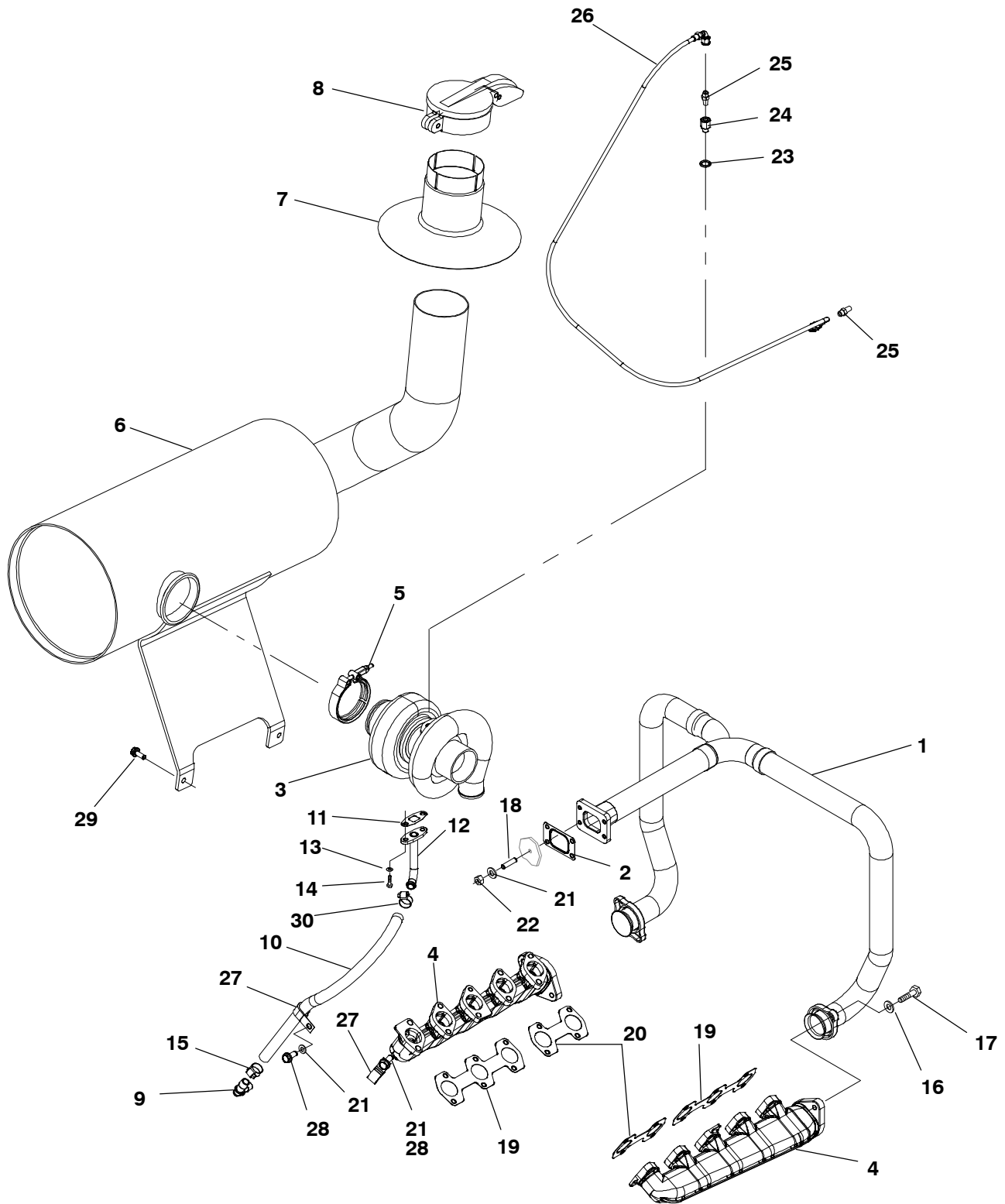
Exhaust System Residential GGHG/GGHH (Spec E-H)



**Exhaust System
Residential
GGHG/GGHH (Spec E-H)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3110	1	Tube, Exhaust	19	503-0183	1	Clamp, Hose
2	C0127032400	1	Gasket, Turbocharger	20	526-2140	4	Washer, Flat (M12)
3	145-0795	1	Turbocharger	21	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)
4	154-3094	2	Manifold, Exhaust	22	520-2407	4	Stud (M10 x 1.5 x 40)
5	155-3394	1	Tube, Exhaust	23	154-3105	2	Gasket, Exhaust Manifold
6	155-2565	1	Clamp, V-Band	24	154-3106	2	Gasket, Exhaust Manifold
7	155-3150-06	1	Silencer – Critical	25	526-2120	6	Washer, Flat (M10)
8	155-3219	2	Gasket, Muffler	26	870-2056	4	Nut, Hex (M10 x 1.5)
9	155-3180-01	1	Shield, Rain	27	509-0290-04	1	Seal, O-Ring (5/16)
10	155-2305	1	Clamp, Muffler (4")	28	502-1381	1	Connector, Restricted
11	155-2062-13	1	Cap, Rain	29	502-1240	2	Adapter, Pipe
12	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)	30	127-0441	1	Tube, Turbo Feed
13	502-1372	1	Elbow, Hose – Barb	31	327-0923	2	Clamp, J
14	503-2236	1	Hose, Turbo – Drain	32	800-2085	2	Screw, Cap – Hex Head (M10 x 1.5 x 20)
15	127-0412	1	Gasket, Oil Drain	33	503-1136	1	Clamp
16	145-0818-02	1	Tube, Oil Drain	34	130-6110-02	1	Cover, Guard
17	850-2008	2	Washer, Lock – Split (M8)	35	818-0231-02	4	Rivet, Pop
18	800-2059	2	Screw, Cap – Hex Head (M8 x 1.25 x 30)				

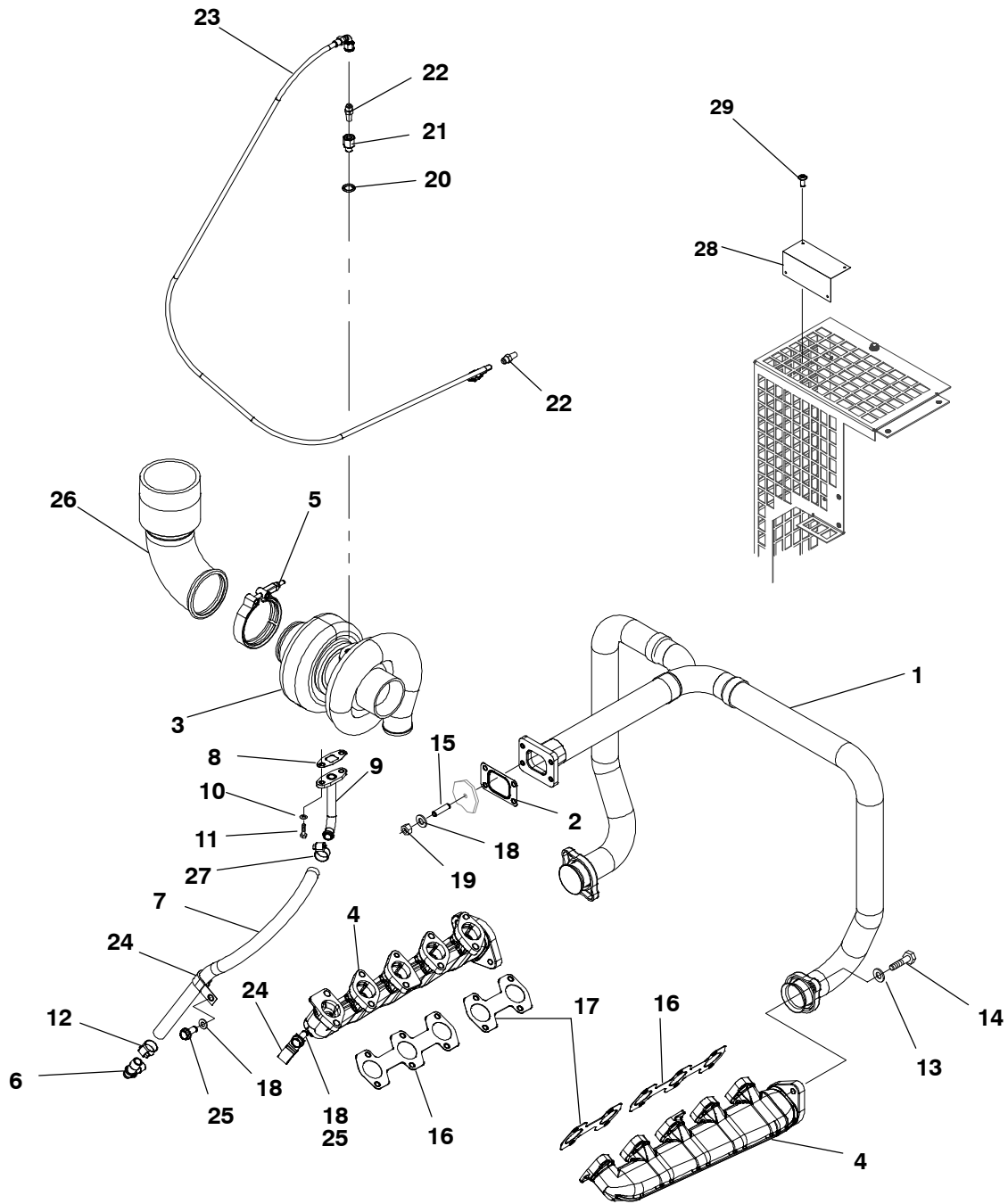
**Exhaust System
Industrial
GGHG/GGHH (Spec E-H)**



**Exhaust System
Industrial
GGHG/GGHH (Spec E-H)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3110	1	Tube, Exhaust	17	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)
2	C0127032400	1	Gasket, Turbocharger	18	520-2407	4	Stud (M10 x 1.5 x 40)
3	145-0795	1	Turbocharger	19	154-3105	2	Gasket, Exhaust Manifold
4	154-3094	2	Manifold, Exhaust	20	154-3106	2	Gasket, Exhaust Manifold
5	155-2565	1	Clamp, V-Band	21	526-2120	6	Washer, Flat (M10)
6	155-3395	1	Silencer	22	870-2056	4	Nut, Hex (M10 x 1.5)
7	155-3102-02	1	Shield, Rain	23	509-0290-04	1	Seal, O-Ring (5/16)
8	155-2062-10	1	Cap, Rain	24	502-1381	1	Connector, Restricted
9	502-1372	1	Elbow, Hose – Barb	25	502-1240	2	Adapter, Pipe
10	503-2236	1	Hose, Turbo – Drain	26	127-0441	1	Tube, Turbo Feed
11	127-0412	1	Gasket, Oil Drain	27	327-0923	2	Clamp, J
12	145-0818-02	1	Tube, Oil Drain	28	800-2085	2	Screw, Cap – Hex Head (M10 x 1.5 x 20)
13	850-2008	2	Washer, Lock – Split (M8)	29	526-0018	2	Washer, Flat (M6)
14	800-2059	2	Screw, Cap – Hex Head (M8 x 1.25 x 30)	30	503-1136	1	Clamp
15	503-0183	1	Clamp, Hose				
16	526-2140	4	Washer, Flat (M12)				

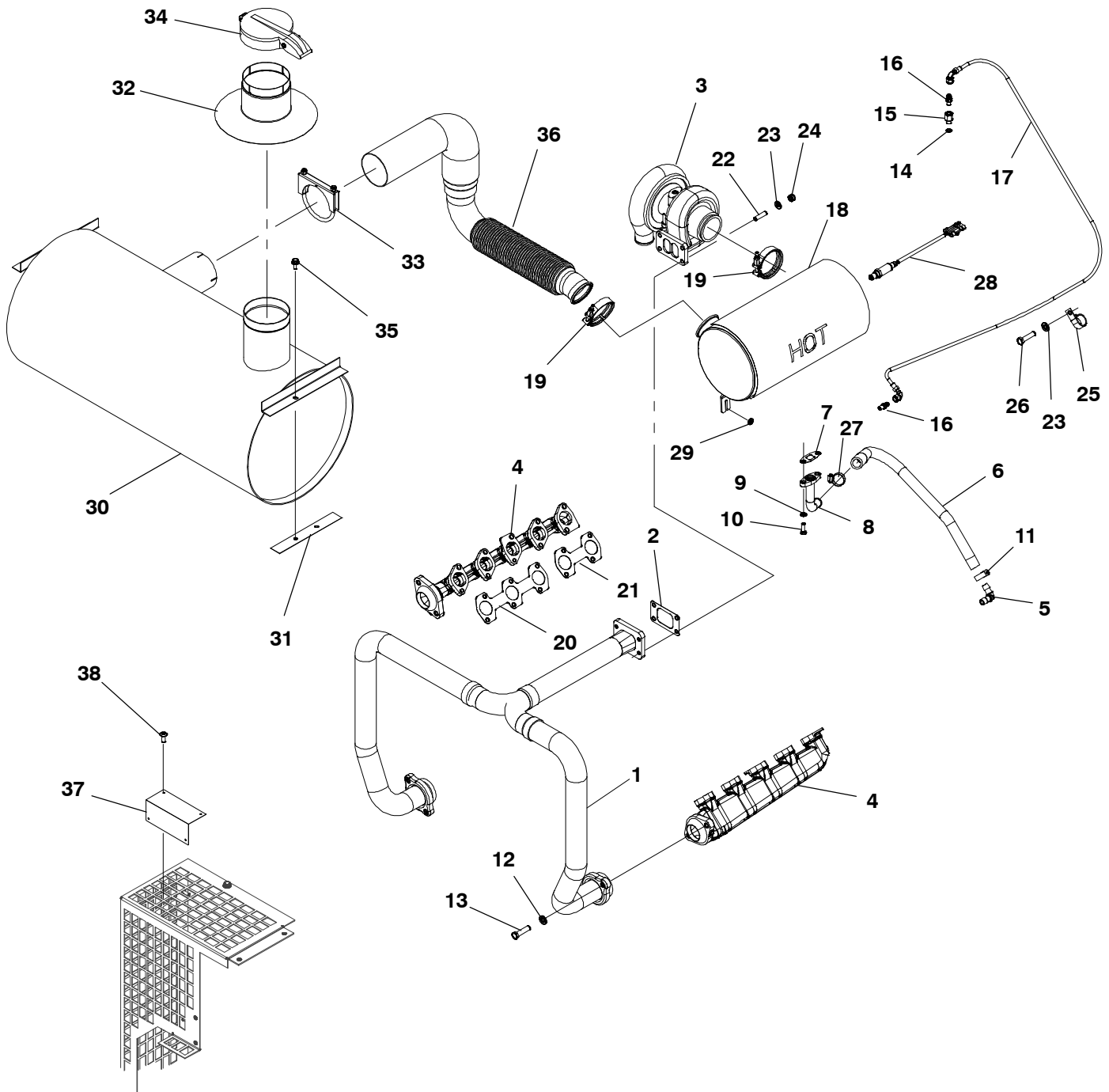
Exhaust System With Threaded Exhaust Pipe GGHG/GGHH (Spec E-H)



**Exhaust System
With Threaded Exhaust Pipe
GGHG/GGHH (Spec E-H)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3110	1	Tube, Exhaust	15	520-2407	4	Stud (M10 x 1.5 x 40)
2	C0127032400	1	Gasket, Turbocharger	16	154-3105	2	Gasket, Exhaust Manifold
3	145-0795	1	Turbocharger	17	154-3106	2	Gasket, Exhaust Manifold
4	154-3094	2	Manifold, Exhaust	18	526-2120	6	Washer, Flat (M10)
5	155-2565	1	Clamp, V-Band	19	870-2056	4	Nut, Hex (M10 x 1.5)
6	502-1372	1	Elbow, Hose - Barb	20	509-0290-04	1	Seal, O-Ring (5/16)
7	503-2236	1	Hose, Turbo - Drain	21	502-1381	1	Connector, Restricted
8	127-0412	1	Gasket, Oil Drain	22	502-1240	2	Adapter, Pipe
9	145-0818-02	1	Tube, Oil Drain	23	127-0441	1	Tube, Turbo Feed
10	850-2008	2	Washer, Lock - Split (M8)	24	327-0923	2	Clamp, J
11	800-2059	2	Screw, Cap - Hex Head (M8 x 1.25 x 30)	25	800-2085	2	Screw, Cap - Hex Head (M10 x 1.5 x 20)
12	503-0183	1	Clamp, Hose	26	155-3116	1	Adapter, Exhaust
13	526-2140	4	Washer, Flat (M12)	27	503-1136	1	Clamp
14	800-2115	4	Screw, Cap - Hex Head (M12 x 1.75 x 45)	28	130-6110-02	1	Cover, Guard
				29	818-0231-02	4	Rivet, Pop

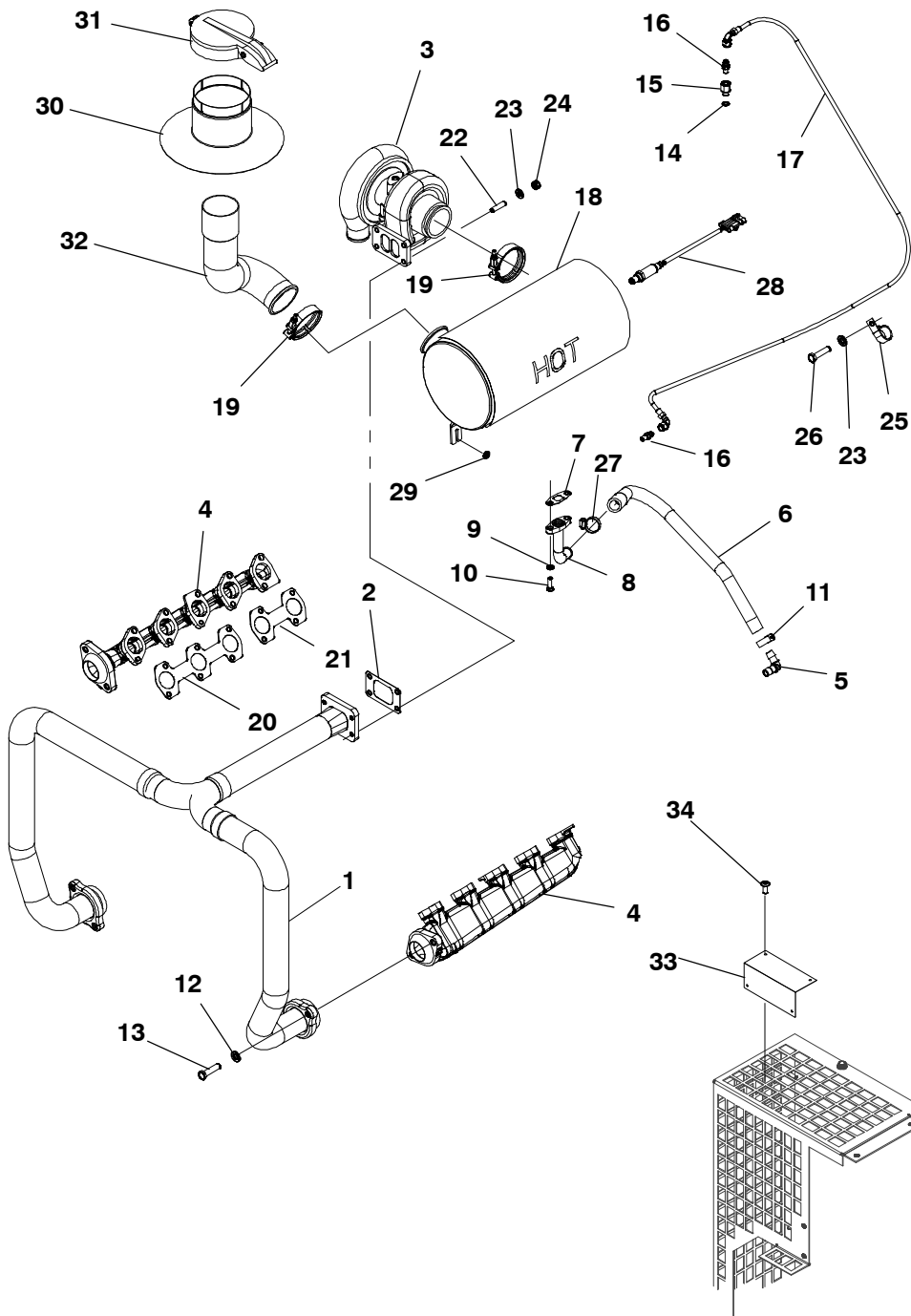
**Exhaust System
Critical
With L102 Low Emissions and F172/F173 Housing
GGHG/GGHH (Spec E-H)**



**Exhaust System
Critical
With L102 Low Emissions and F172/F173 Housing
GGHG/GGHH (Spec E-H)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3110	1	Tube, Exhaust	20	154-3105	2	Gasket, Exhaust Manifold
2	C0127032400	1	Gasket, Turbocharger	21	154-3106	2	Gasket, Exhaust Manifold
3	145-0795	1	Turbocharger	22	520-2407	4	Stud (M10 x 1.5 x 40)
4	154-3094	2	Manifold, Exhaust	23	526-2120	6	Washer, Flat (M10)
5	502-1372	1	Elbow, Hose – Barb	24	870-2056	4	Nut, Hex (M10 x 1.5)
6	503-2236	1	Hose, Turbo – Drain	25	327-0923	2	Clamp, J
7	127-0412	1	Gasket, Oil Drain	26	800-2085	2	Screw, Cap – Hex Head (M10 x 1.5 x 20)
8	145-0818-02	1	Tube, Oil Drain	27	503-1136	1	Clamp, Hose
9	850-2008	2	Washer, Lock – Split (M8)	28	A034V246	1	Sensor, Oxygen
10	800-2059	2	Screw, Cap – Hex Head (M8 x 1.25 x 30)	29	526-0018	6	Washer, Flat
11	503-0183	1	Clamp, Hose	30	155-3150-06	1	Silencer – Critical
12	526-2140	4	Washer, Flat (M12)	31	155-3219	2	Gasket, Muffler
13	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)	32	155-3180	1	Shield, Rain
14	509-0290-04	1	Seal, O-Ring (5/16)	33	155-2305	1	Clamp, Muffler
15	502-1381	1	Connector, Restricted	34	155-2062-13	1	Cap, Rain
16	502-1240	2	Adapter, Pipe	35	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)
17	127-0441	1	Tube, Turbo Feed	36	155-3575	1	Transition, Exhaust
18	155-3573	1	Converter, Catalytic	37	130-6110-02	1	Cover, Guard
19	155-2565	2	Clamp, V-Band	38	818-0231-02	4	Rivet, Pop

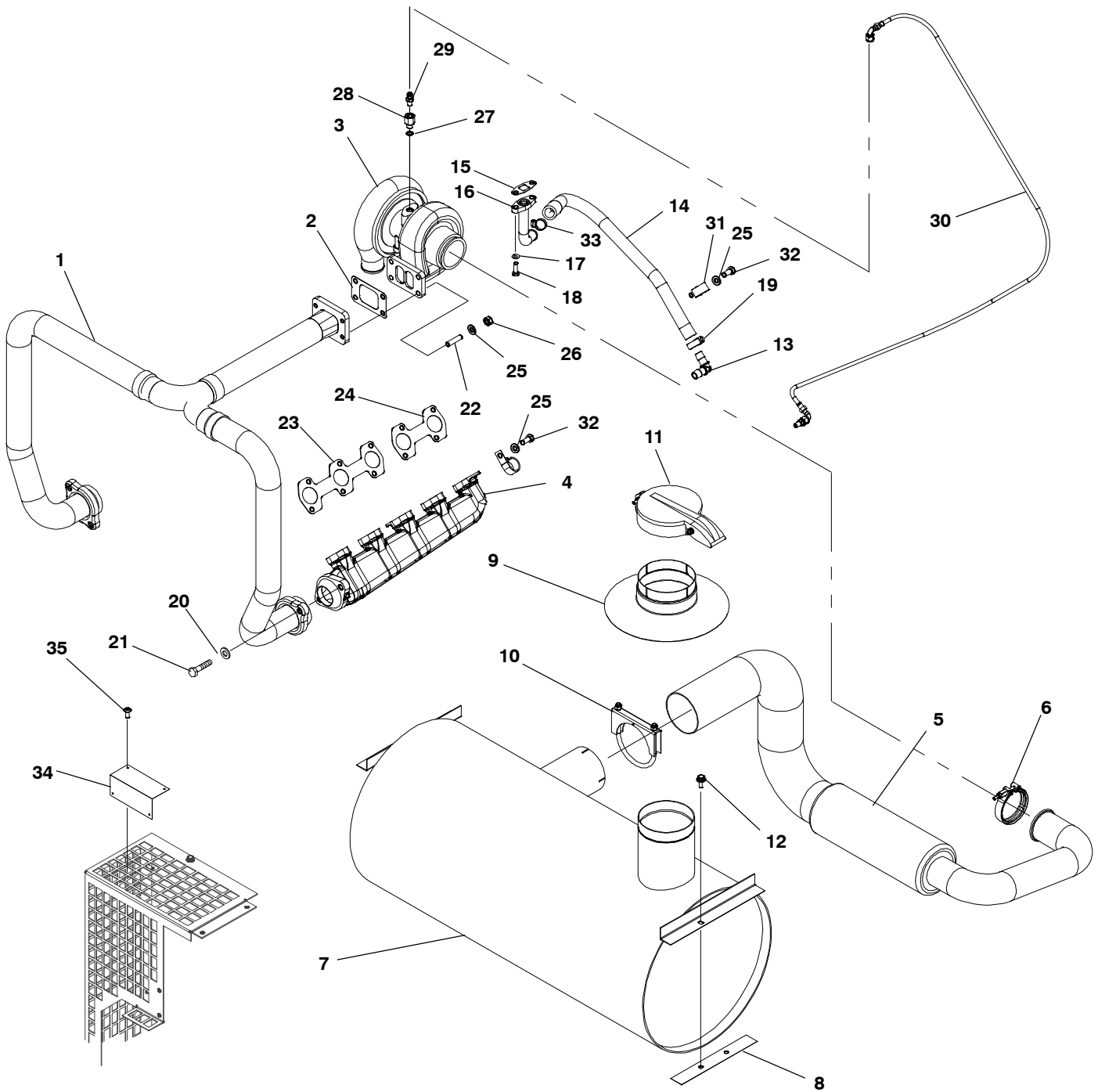
Exhaust System **With L102 Low Emissions and F182 Housing** **GGHG/GGHH (Spec E-H)**



Exhaust System
With L102 Low Emissions and F182 Housing
GGHG/GGHH (Spec E-H)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3110	1	Tube, Exhaust	18	155-3573	1	Converter, Catalytic
2	C0127032400	1	Gasket, Turbocharger	19	155-2565	2	Clamp, V-Band
3	145-0795	1	Turbocharger	20	154-3105	2	Gasket, Exhaust Manifold
4	154-3094	2	Manifold, Exhaust	21	154-3106	2	Gasket, Exhaust Manifold
5	502-1372	1	Elbow, Hose – Barb	22	520-2407	4	Stud (M10 x 1.5 x 40)
6	503-2236	1	Hose, Turbo – Drain	23	526-2120	6	Washer, Flat (M10)
7	127-0412	1	Gasket, Oil Drain	24	870-2056	4	Nut, Hex (M10 x 1.5)
8	145-0818-02	1	Tube, Oil Drain	25	327-0923	2	Clamp, J
9	850-2008	2	Washer, Lock – Split (M8)	26	800-2085	2	Screw, Cap – Hex Head (M10 x 1.5 x 20)
10	800-2059	2	Screw, Cap – Hex Head (M8 x 1.25 x 30)	27	503-1136	1	Clamp, Hose
11	503-0183	1	Clamp, Hose	28	A034V246	1	Sensor, Oxygen
12	526-2140	4	Washer, Flat (M12)	29	526-0018	6	Washer, Flat
13	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)	30	155-3102-02	1	Shield, Rain
14	509-0290-04	1	Seal, O-Ring (5/16)	31	155-2062-10	1	Cap, Rain
15	502-1381	1	Connector, Restricted	32	155-3574	1	Elbow, Exhaust
16	502-1240	2	Adapter, Pipe	33	130-6110-02	1	Cover, Guard
17	127-0441	1	Tube, Turbo Feed	34	818-0231-02	4	Rivet, Pop

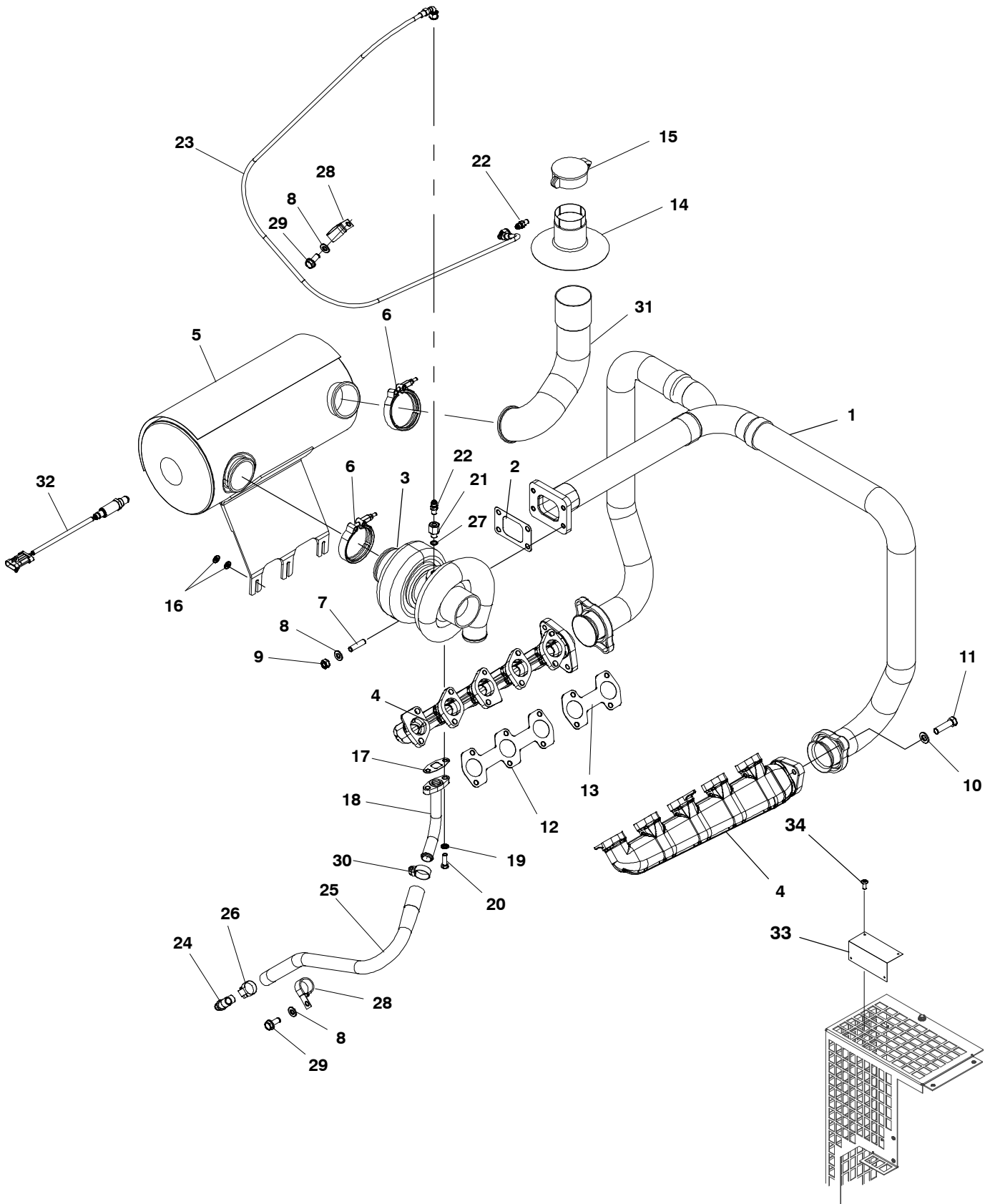
**Exhaust System
F172/F173 Housing
GGHG/GGHH (Spec E-H)**



**Exhaust System
F172/F173 Housing
GGHG/GGHH (Spec E-H)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3110	1	Tube, Exhaust	19	503-0183	1	Clamp, Hose
2	C0127032400	1	Gasket, Turbocharger	20	526-2140	4	Washer, Flat (M12)
3	145-0795	1	Turbocharger	21	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)
4	154-3094	2	Manifold, Exhaust	22	520-2407	4	Stud (M10 x 1.5 x 40)
5	155-3394	1	Tube, Exhaust	23	154-3105	2	Gasket, Exhaust Manifold
6	155-2565	1	Clamp, V-Band	24	154-3106	2	Gasket, Exhaust Manifold
7	155-3150-06	1	Silencer – Critical	25	526-2120	6	Washer, Flat (M10)
8	155-3219	2	Gasket, Muffler	26	870-2056	4	Nut, Hex (M10 x 1.5)
9	155-3180-01	1	Shield, Rain	27	509-0290-04	1	Seal, O-Ring (5/16)
10	155-2305	1	Clamp, Muffler	28	502-1381	1	Connector, Restricted
11	155-2062-13	1	Cap, Rain	29	502-1240	2	Adapter, Pipe
12	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)	30	127-0441	1	Tube, Turbo Feed
13	502-1372	1	Elbow, Hose – Barb	31	327-0923	2	Clamp, J
14	503-2236	1	Hose, Turbo – Drain	32	800-2085	2	Screw, Cap – Hex Head (M10 x 1.5 x 20)
15	127-0412	1	Gasket, Oil Drain	33	503-1136	1	Clamp, Hose
16	145-0818-02	1	Tube, Oil Drain	34	130-6110-02	1	Cover, Guard
17	850-2008	2	Washer, Lock – Split (M8)	35	818-0231-02	4	Rivet, Pop
18	800-2059	2	Screw, Cap – Hex Head (M8 x 1.25 x 30)				

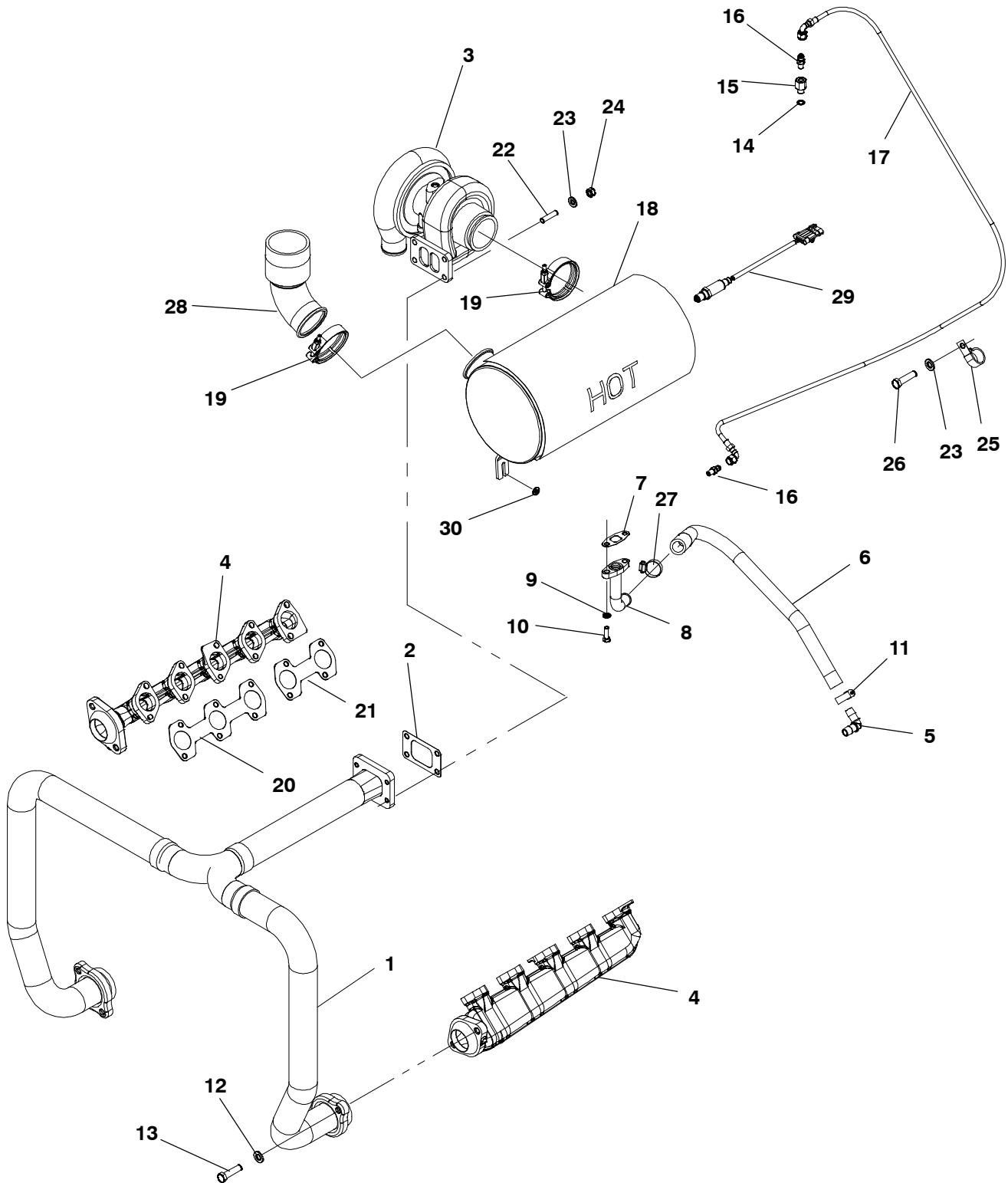
Exhaust System **With L102 Low Emissions and Mounted Muffler** **GGHG/GGHH (Spec E-H)**



Exhaust System
With L102 Low Emissions and Mounted Muffler
GGHG/GGHH (Spec E-H)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3110	1	Tube, Exhaust	19	850-2008	2	Washer, Lock – Split (M8)
2	C0127032400	1	Gasket, Turbocharger	20	800-2059	2	Screw, Cap – Hex Head (M8 x 1.25 x 30)
3	145-0795	1	Turbocharger	21	502-1381	1	Connector, Restricted
4	154-3094	2	Manifold, Exhaust	22	502-1240	2	Adapter, Pipe
5	155-3573	1	Converter, Catalytic	23	127-0441	1	Tube, Turbo Feed
6	155-2565	2	Clamp, V-Band	24	502-1372	1	Elbow, Hose – Barb
7	520-2407	4	Stud (M10 x 1.5 x 40)	25	503-2236	1	Hose, Turbo – Drain
8	526-2120	6	Washer, Flat (M10)	26	503-0183	1	Clamp, Hose
9	870-2056	4	Nut, Hex (M10 x 1.5)	27	509-0290-04	1	Seal, O-Ring (5/16)
10	526-2140	4	Washer, Flat (M12)	28	327-0923	2	Clamp, J
11	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)	29	800-2085	2	Screw, Cap – Hex Head (M10 x 1.5 x 20)
12	154-3105	2	Gasket, Exhaust Manifold	30	503-1136	1	Clamp, Hose
13	154-3106	2	Gasket, Exhaust Manifold	31	155-3571	1	Elbow, Exhaust
14	155-3102-02	1	Shield, Rain	32	A034V246	1	Sensor, Oxygen
15	155-2062-10	1	Cap, Rain	33	130-6110-02	1	Cover, Guard
16	526-0018	6	Washer, Flat	34	818-0231-02	4	Rivet, Pop
17	127-0412	1	Gasket, Oil Drain				
18	145-0818-02	1	Tube, Oil Drain				

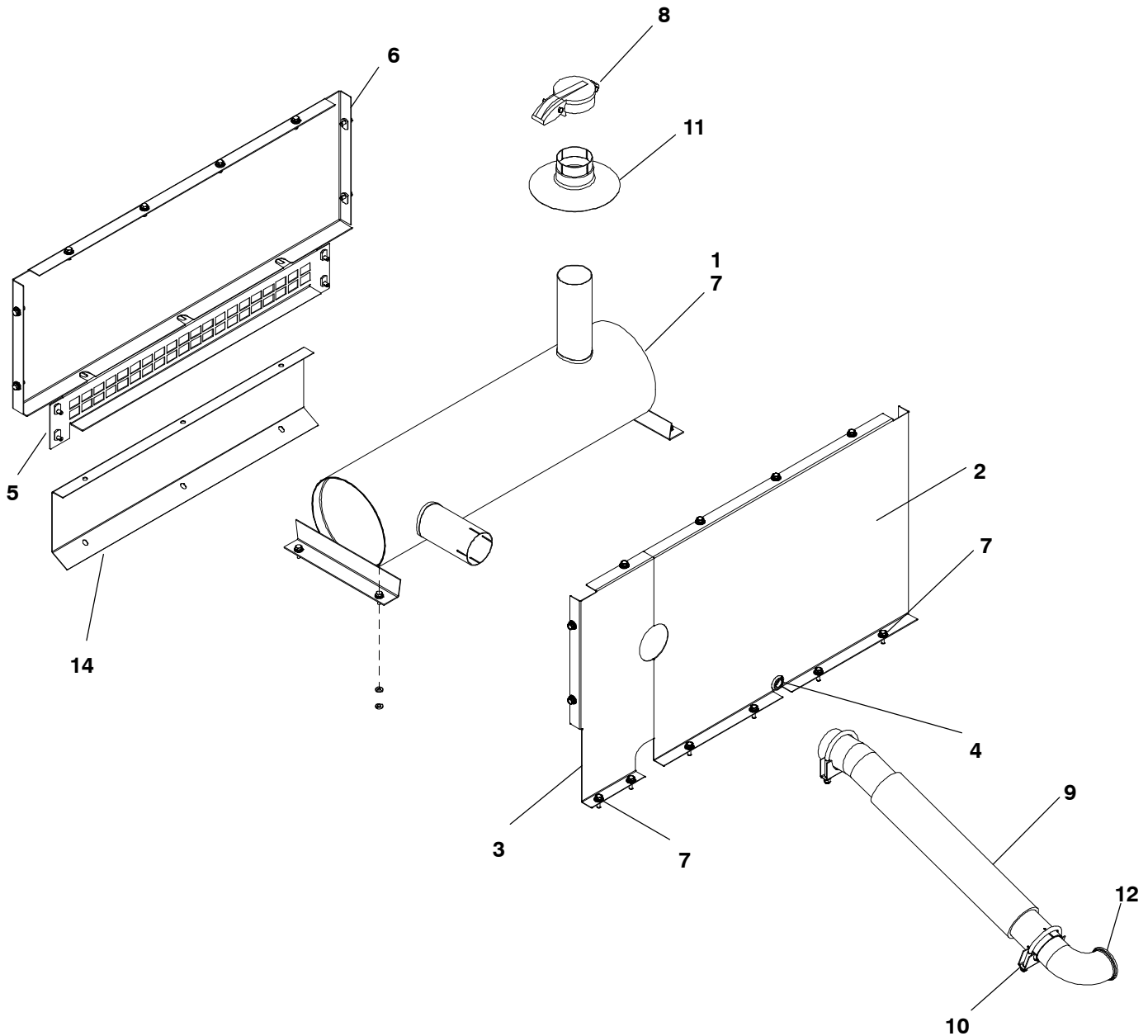
Exhaust System
With L102 Low Emissions and Threaded Exhaust Pipe
GGHG/GGHH (Spec E-H)



Exhaust System
With L102 Low Emissions and Threaded Exhaust Pipe
GGHG/GGHH (Spec E-H)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3110	1	Tube, Exhaust	16	502-1240	2	Adapter, Pipe
2	C0127032400	1	Gasket, Turbocharger	17	127-0441	1	Tube, Turbo Feed
3	145-0795	1	Turbocharger	18	155-3573	1	Converter, Catalytic
4	154-3094	2	Manifold, Exhaust	19	155-2565	2	Clamp, V-Band
5	502-1372	1	Elbow, Hose – Barb	20	154-3105	2	Gasket, Exhaust Manifold
6	503-2236	1	Hose, Turbo – Drain	21	154-3106	2	Gasket, Exhaust Manifold
7	127-0412	1	Gasket, Oil Drain	22	520-2407	4	Stud (M10 x 1.5 x 40)
8	145-0818-02	1	Tube, Oil Drain	23	526-2120	6	Washer, Flat (M10)
9	850-2008	2	Washer, Lock – Split (M8)	24	870-2056	4	Nut, Hex (M10 x 1.5)
10	800-2059	2	Screw, Cap – Hex Head (M8 x 1.25 x 30)	25	327-0923	2	Clamp, J
11	503-0183	1	Clamp, Hose	26	800-2085	2	Screw, Cap – Hex Head (M10 x 1.5 x 20)
12	526-2140	4	Washer, Flat (M12)	27	503-1136	1	Clamp, Hose
13	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)	28	155-3571	1	Elbow, Exhaust
14	509-0290-04	1	Seal, O-Ring (5/16)	29	A034V246	1	Sensor, Oxygen
15	502-1381	1	Connector, Restricted	30	526-0018	6	Washer, Flat

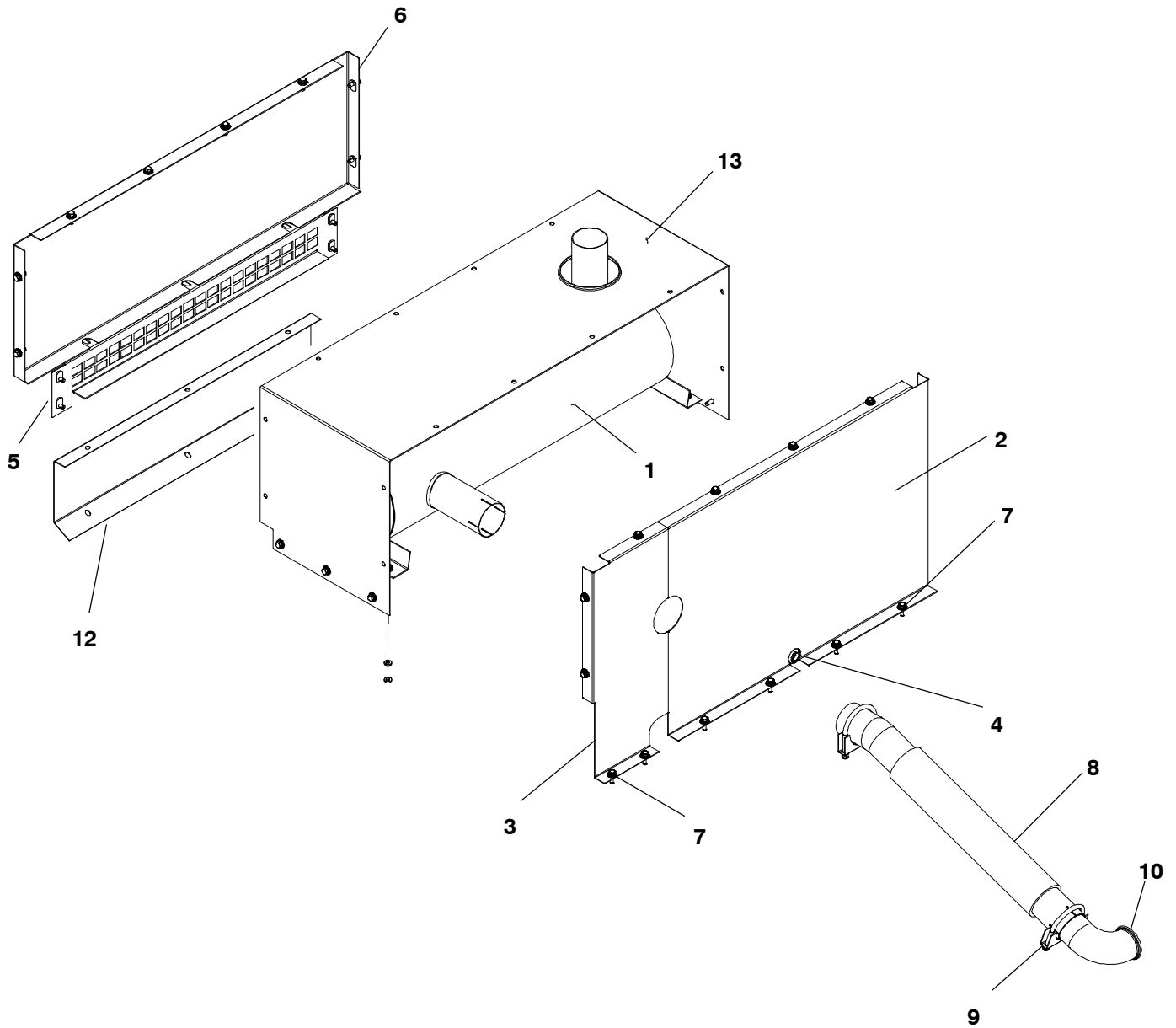
**Muffler
With Enclosure
GGHG/GGHH (Spec F-G)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4459	1	Muffler
2	155-4365-02	1	Baffle, Exhaust
3	155-4366-02	1	Baffle, Exhaust
4	508-0144	1	Grommet
5			Panel, Duct
	405-9177-02	1	Steel
	405-9603-03	1	Aluminum
6			Panel, End Cap
	405-8471-02	1	Steel
	405-9599-03	1	Aluminum
7	821-6003-02	10	Screw, Hex Head (M8 x 1.25 x 20)

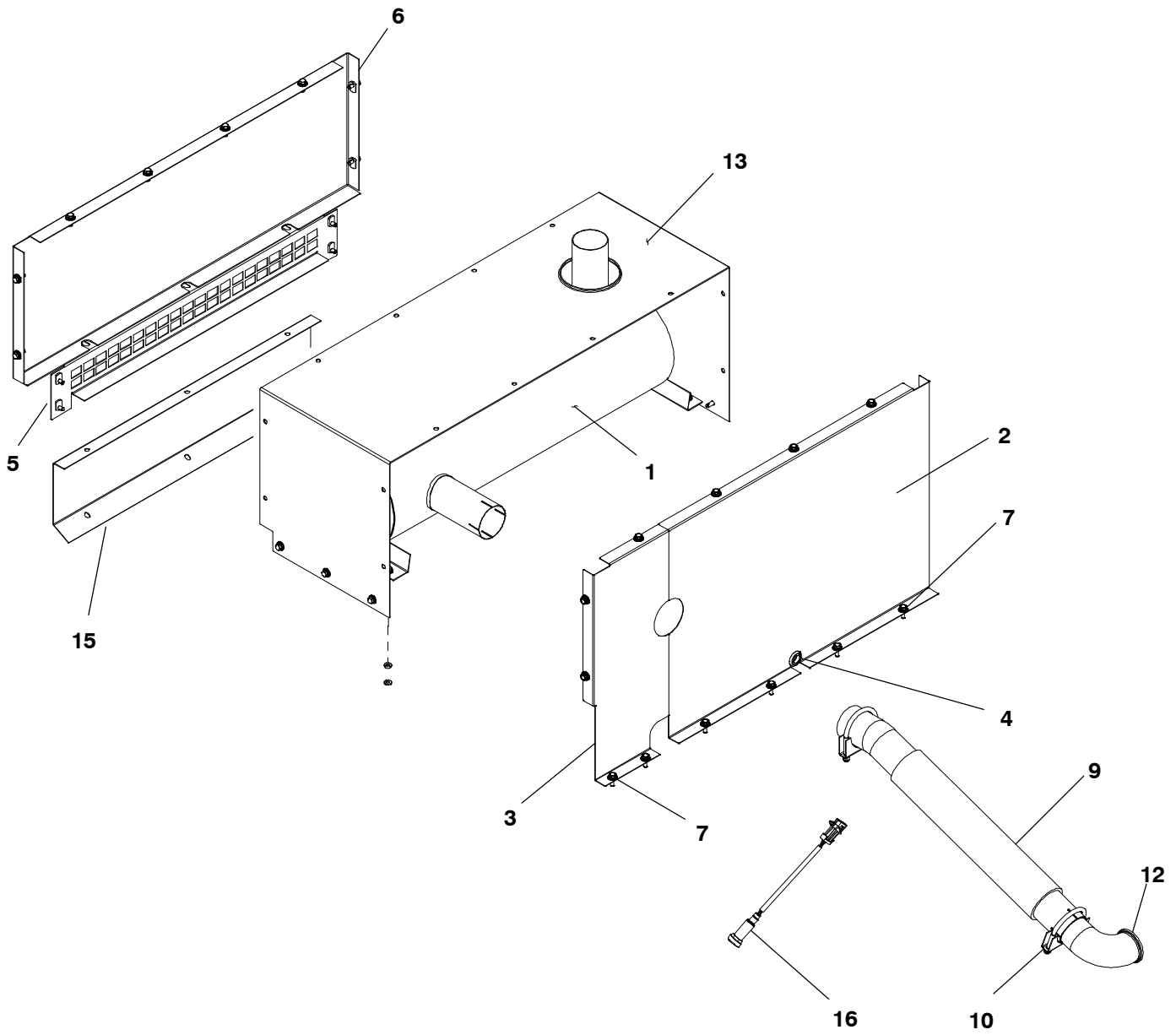
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	155-2062-10	1	Cap, Rain
9	155-4388	1	Pipe, Exhaust
10	155-3289	2	Clamp, Muffler (3")
11	155-3102-03	1	Shield, Rain
12	155-3112-01	1	Pipe, Exhaust
13	898-1371-05	-	Sleeving, Fiberglass (1.2') (Not Illustrated)
14			Baffle, Air
	405-9178-02	1	Steel
	405-9604-02	1	Aluminum

**Muffler
Without Enclosure
GGHG/GGHH (Spec F-G)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4459	1	Muffler	8	155-4388	1	Pipe, Exhaust
2	155-4365-02	1	Baffle, Exhaust	9	155-3289	2	Clamp, Muffler (3")
3	155-4366-02	1	Baffle, Exhaust	10	155-3112-01	1	Pipe, Exhaust
4	508-0144	1	Grommet	11	898-1371-05	-	Sleeving, Fiberglass (1.2') (Not Illustrated)
5	405-9177-02	1	Panel, Duct	12	405-9178-02	1	Baffle, Air
6	405-8471-02	1	Panel, End Cap	13	155-4387-02	1	Cover, Exhaust
7	821-6003-02	10	Screw, Hex Head (M8 x 1.25 x 20)				

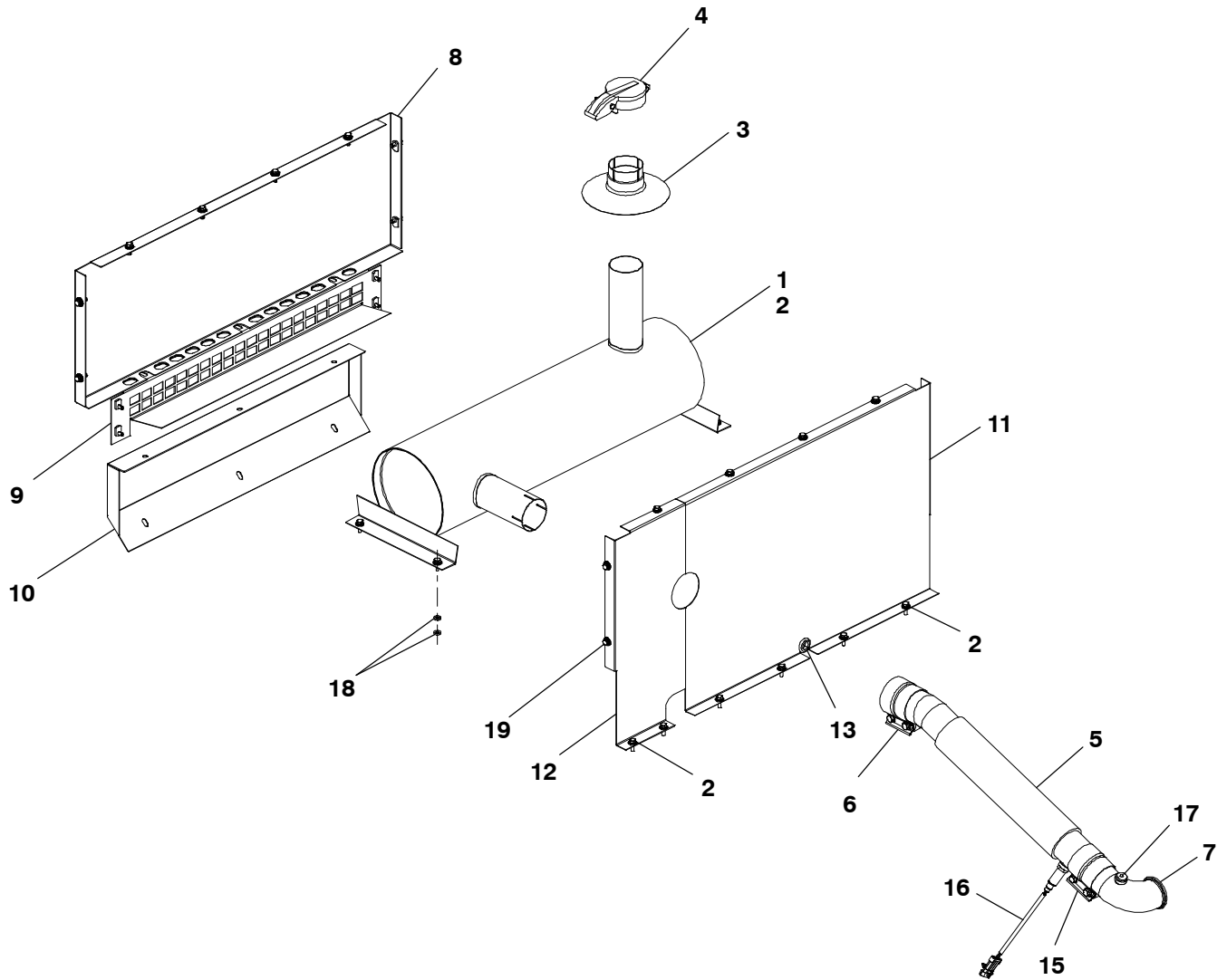
**Exhaust
GGHG/GGHH (Spec H)**



Exhaust GGHG/GGHH (Spec H)

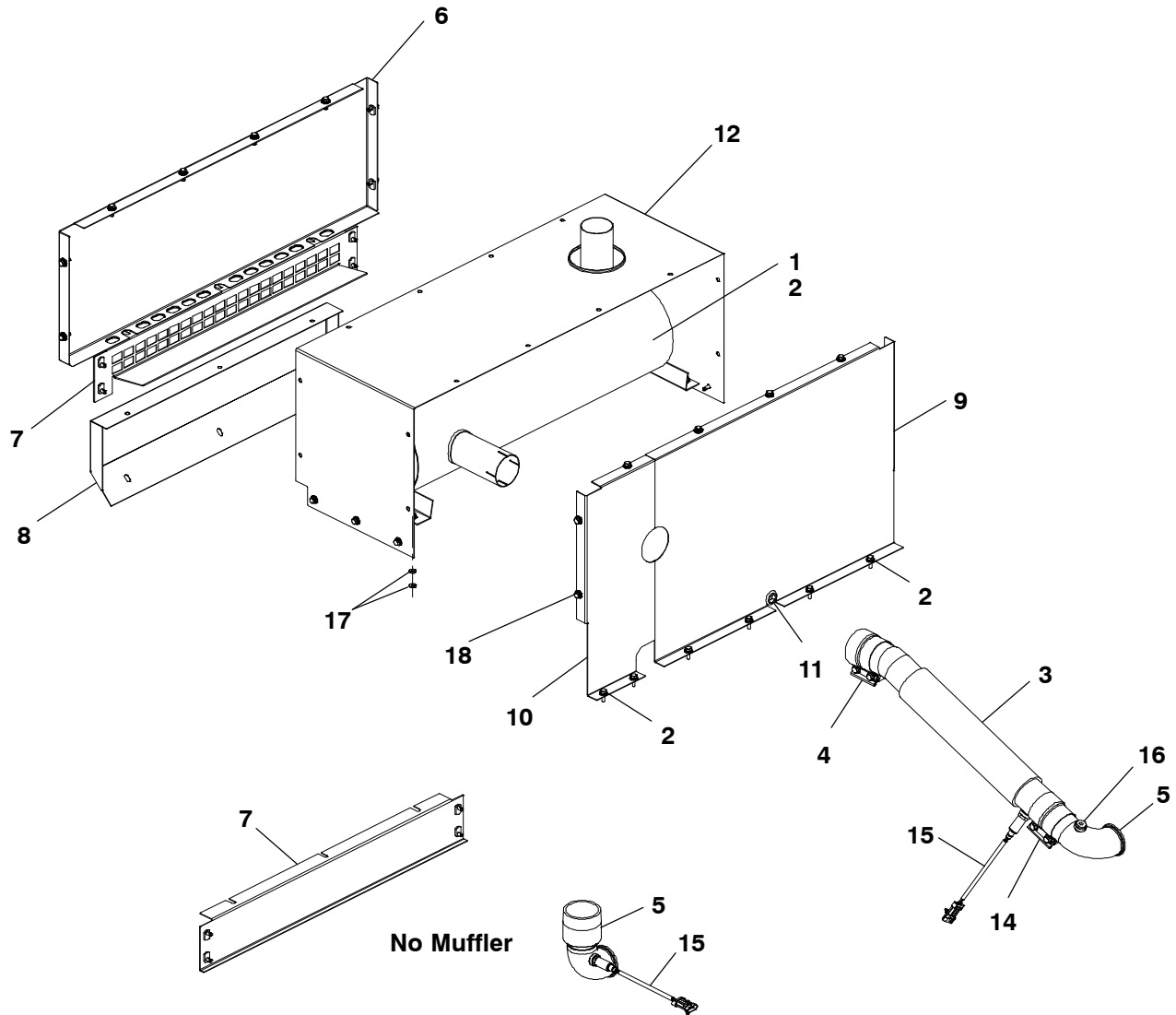
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4459	1	Muffler	8	155-2062-10	1	Cap, Rain – Housed Sets
2	155-4365-02	1	Baffle, Exhaust	9	155-4745-01	1	Pipe, Exhaust (Flexible)
3	155-4366-02	1	Baffle, Exhaust	10	155-3289	2	Clamp, Muffler (3")
4	508-0144	1	Grommet	11	155-3102-03	1	Shield, Rain – Housed Sets
5		1	Panel, Duct (Top)	12	155-3112-01	1	Pipe, Exhaust
	405-9177-02	1	Steel Housing with Muffler and Oxygen Sensor, Unhoused Sets with Muffler and Oxygen Sensor	13	155-4387-02	1	Cover, Exhaust – Unhoused Sets
	405-9603-03	1	Aluminum Housing with Muffler and Oxygen Sensor	14	898-1371-05	–	Sleeving, Fiberglass (1.2') (Not Illustrated)
6			Panel, End Cap	15			Baffle, Air
	405-8471-02	1	Steel Housing with Muffler and Oxygen Sensor, Unhoused Sets with Muffler and Oxygen Sensor		405-9178-02	1	Steel Housing with Muffler and Oxygen Sensor, Unhoused Sets with Muffler and Oxygen Sensor
	405-9599-03	1	Aluminum Housing with Muffler and Oxygen Sensor		405-9604-02	1	Aluminum Housing with Muffler and Oxygen Sensor
7	821-6003-02	10	Screw, Hex Head (M8 x 1.25 x 20)	16	A034V246	1	Sensor, Oxygen

Muffler With Enclosure GGHG/GGHH (Spec J-K)



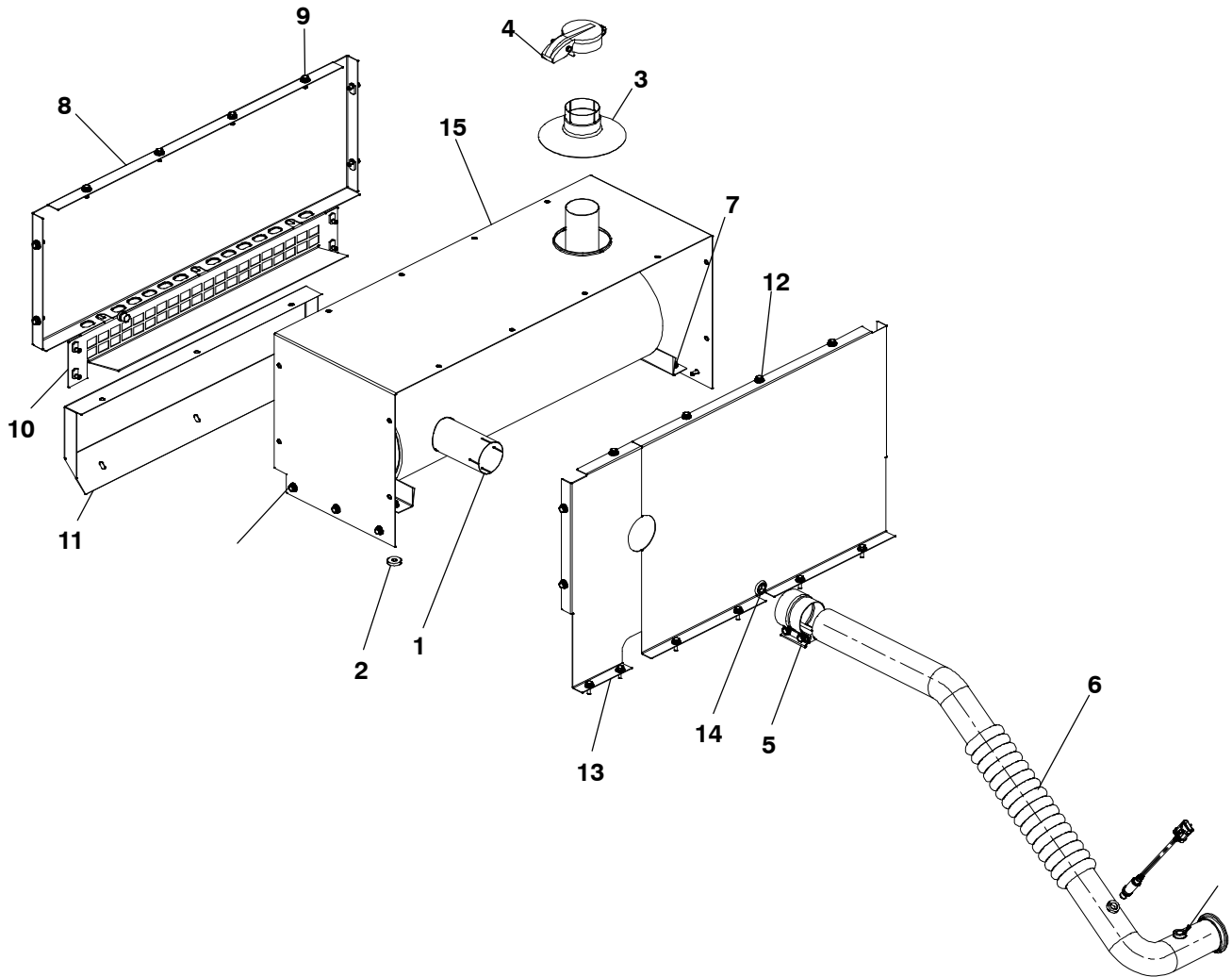
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4459	1	Muffler	404-0280-02	1	Steel	
2	821-6003-02	10	Screw, Hex Head (M8 x 1.25 x 20)	404-0364-02	1	Aluminum	
3	155-3102-03	1	Shield, Rain	11	155-4365-02	1	Baffle, Exhaust
4	155-2062-10	1	Cap, Rain	12	155-4366-02	1	Baffle, Exhaust
5	155-4745-01	1	Pipe, Exhaust (Flexible)	13	508-0144	1	Grommet, Rubber
6	155-4762-02	1	Clamp, Exhaust	14	898-1371-05	-	Sleeving, Fiberglass (1.2') (Not Illustrated)
7	155-3116-01	1	Adapter, Exhaust	15	155-4762-03	1	Clamp, Exhaust
8			Panel, End Cap	16			Sensor, Oxygen
	404-0278-02	1	Steel		A034V246	1	(Spec J)
	404-0362-03	1	Aluminum		0193-0499	1	(Spec K)
9			Panel, Duct - Top	17	505-2476	1	Plug, Threaded (M18 x 1.5)
	404-0279-02	1	Steel	18	526-0045	8	Washer, Flat
	404-0363-03	1	Aluminum	19	821-6007-02	20	Screw, Hex Head
10			Baffle, Air				

**Exhaust
Without Enclosure
GGHG/GGHH (Spec J-K)**



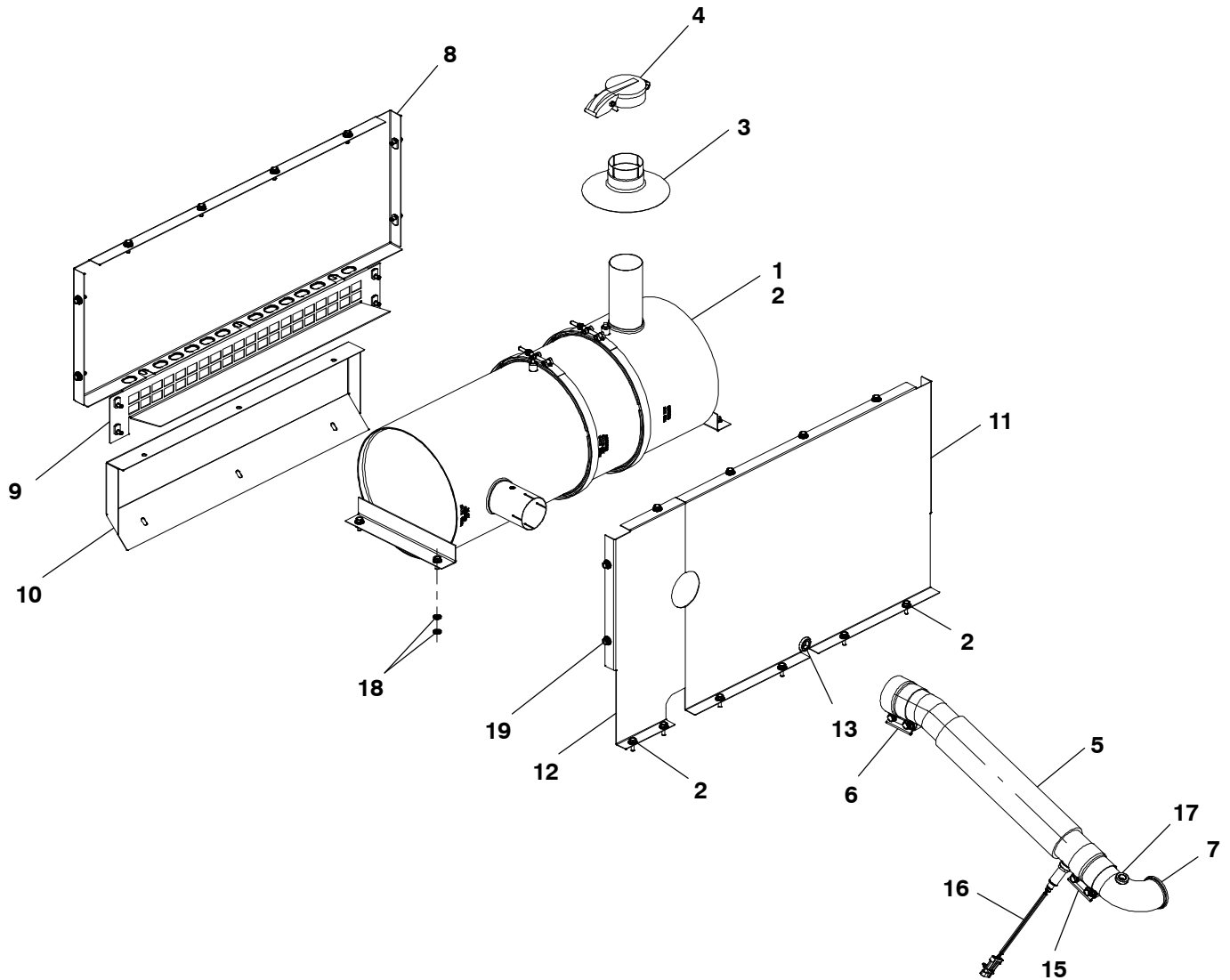
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4459	1	Muffler	8	404-0280-02	1	Baffle, Air
2	821-6003-02	10	Screw, Hex Head (M8 x 1.25 x 20)	9	155-4365-02	1	Baffle, Exhaust
3	155-4745-01	1	Pipe, Exhaust (Flexible)	10	155-4366-02	1	Baffle, Exhaust
4	155-4762-02	1	Clamp, Exhaust	11	508-0144	1	Grommet
5			Pipe, Exhaust	12	155-4387-02	1	Cover, Exhaust
	A046P269	1	With Muffler	13	898-1371-05	-	Sleeving, Fiberglass (1.2') (Not Illustrated)
	155-3116-01	1	Without Muffler	14	155-4762-03	1	Clamp, Exhaust
6	404-0278-02		Panel, End Cap - With Muffler	15	A034V246	1	Sensor, Oxygen
7			Panel, Duct	16	505-2476	1	Plug, Threaded (M18 x 1.5)
	404-0279-02	1	With Muffler	17	526-0045	8	Washer, Flat
	405-7806-04	1	Without Muffler	18	821-6007-02 A/R		Screw, Hex Head

Exhaust
GGHG/GGHH (Begin Spec L)
GGHJ (Spec A)



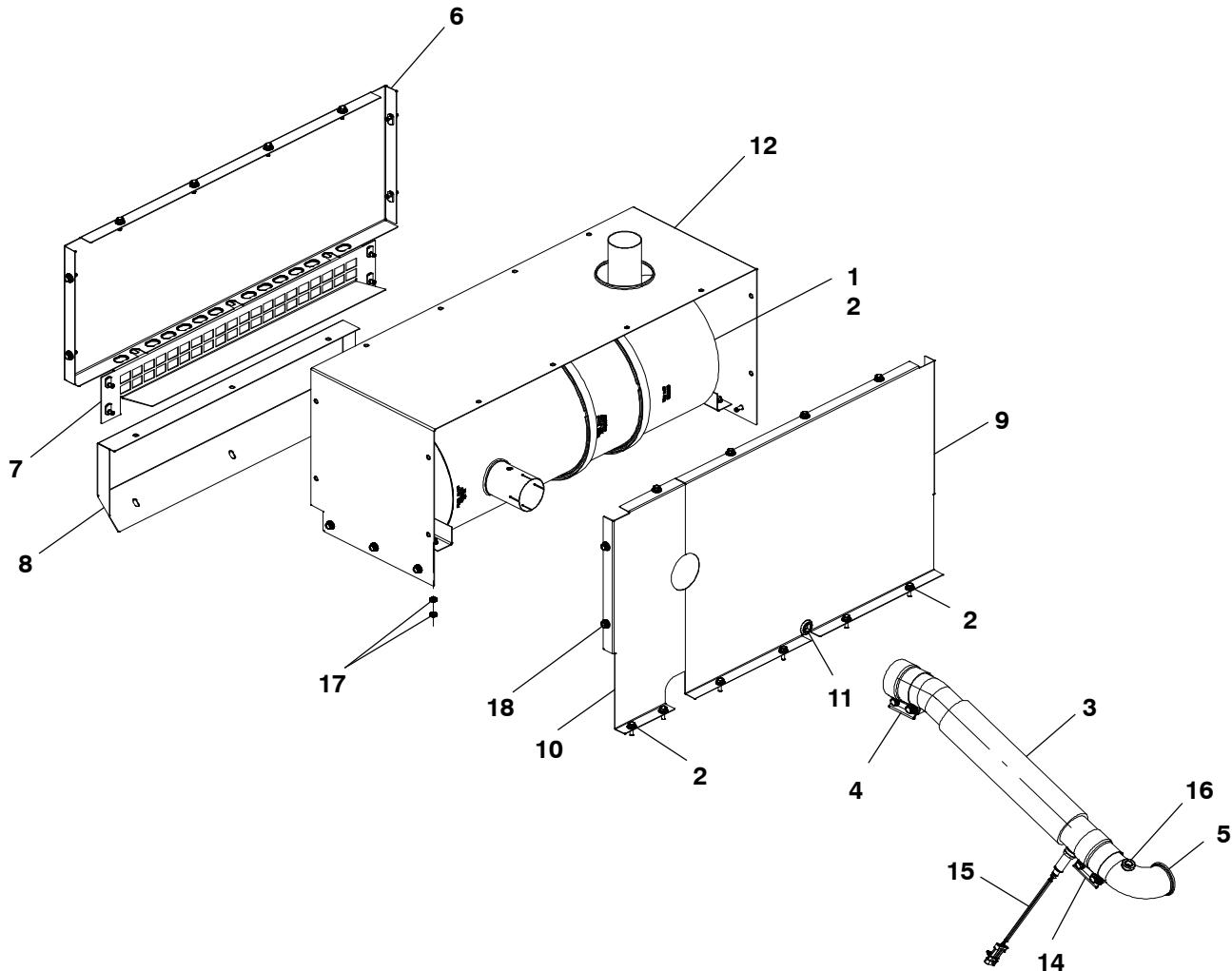
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4459	1	Muffler	10			Panel, Duct
2	526-0077	4	Washer, Flat		404-0279-02	1	Steel Housing With Muffler and No Housing With Muffler
3	155-3102-03	1	Shield, Rain		404-0363-03	1	Aluminum Housing With Muffler
4	155-2062-60	1	Cap, Rain				
5	155-4762-02	1	Clamp, Exhaust				
6	A042U393	1	Tube, Exhaust				
7	821-6003-02	10	Screw, Hex Head (M8 x 1.25 x 20)	11			Baffle, Air
8			Panel, End Cap		404-0280-02	1	Steel Housing With Muffler and No Housing With Muffler
	404-0278-02	1	Steel Housing With Muffler and No Housing With Muffler		404-0364-02	1	Aluminum Housing With Muffler
	404-0362-02	1	Aluminum Housing With Muffler	12	A043C933	1	Baffle, Exhaust
9	821-6007-02 A/R		Screw, Hex Head	13	155-4366-02	1	Baffle, Exhaust
				14	508-0144	1	Grommet
				15	505-2476	1	Plug, Threaded (M18 x 1.5)

**Muffler-Catalyst
With Enclosure
GGHG/GGHH (Spec J-K)**



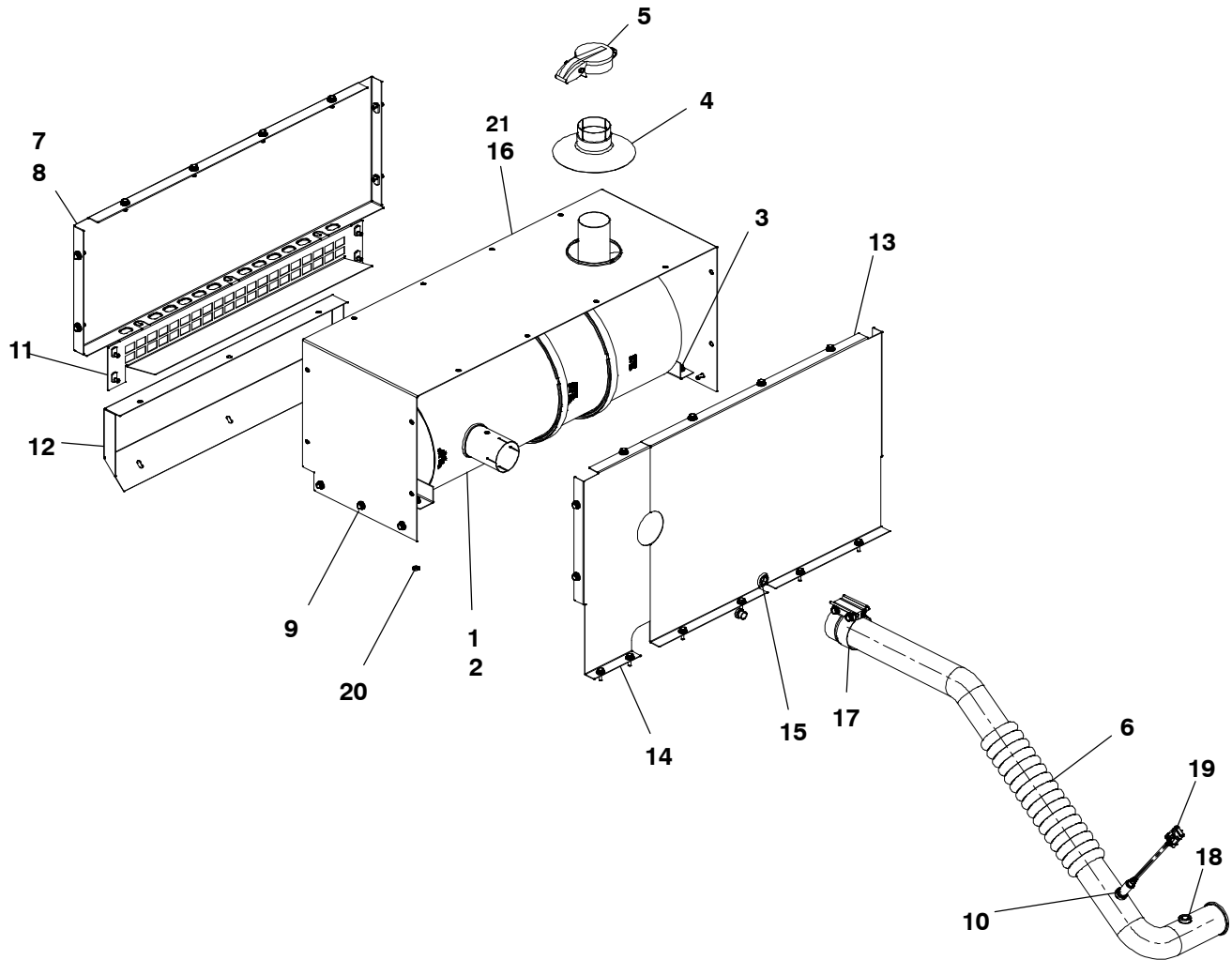
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A026F055	1	Muffler	10	404-0280-02	1	Baffle, Air Steel
	A026D978	1	Converter, Catalytic		404-0364-02	1	Aluminum
2	821-6003-02	10	Screw, Hex Head (M8 x 1.25 x 20)	11	155-4365-02	1	Baffle, Exhaust
3	155-3102-03	1	Shield, Rain	12	155-4366-02	1	Baffle, Exhaust
4	155-2062-10	1	Cap, Rain	13	508-0144	1	Grommet, Rubber
5	155-4745-02	1	Pipe, Exhaust (Flexible)	14	898-1371-05	-	Sleeving, Fiberglass (1.2') (Not Illustrated)
6	155-4762-02	1	Clamp, Exhaust	15	155-4762-03	1	Clamp, Exhaust
7	155-3112-02	1	Pipe, Exhaust	16	A034V246	1	Sensor, Oxygen
8	404-0278-02	1	Panel, End Cap Steel	17	505-2476	1	Plug, Threaded (M18 x 1.5)
	404-0362-03	1	Aluminum	18	526-0045	8	Washer, Flat
9	404-0279-02	1	Panel, Duct - Top Steel	19	821-6007-02	20	Screw, Hex Head
	404-0363-03	1	Aluminum				

**Muffler-Catalyst
Without Enclosure
GGHG/GGHH (Spec J-K)**



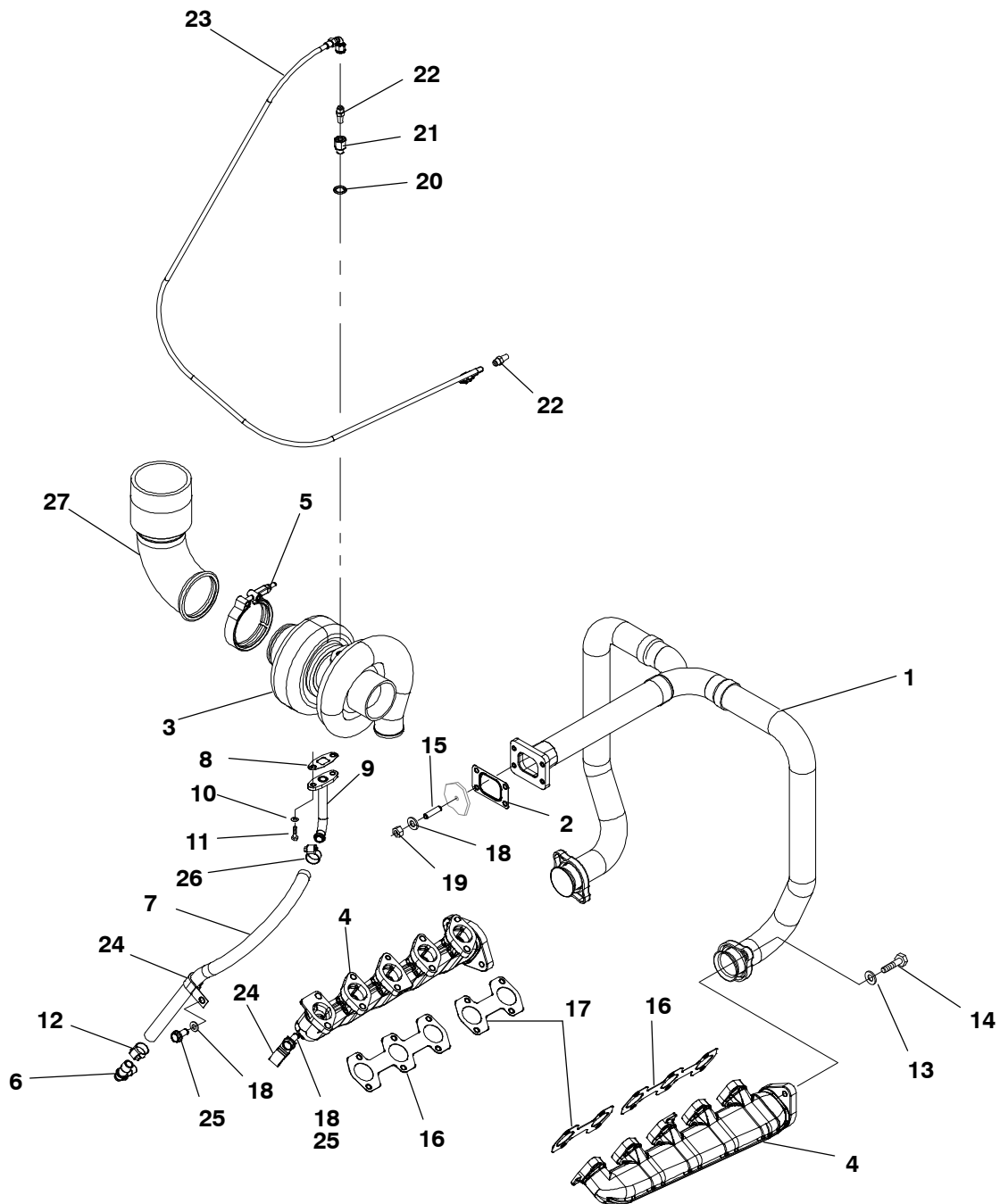
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A026F055	1	Muffler	9	155-4365-02	1	Baffle, Exhaust
	A026D978	1	Converter, Catalytic	10	155-4366-02	1	Baffle, Exhaust
2	821-6003-02	10	Screw, Hex Head (M8 x 1.25 x 20)	11	508-0144	1	Grommet
3	155-4745-02	1	Pipe, Exhaust (Flexible)	12	155-4387-02	1	Cover, Exhaust
4	155-4762-02	1	Clamp, Exhaust	13	898-1371-05	-	Sleeving, Fiberglass (1.2') (Not Illustrated)
5	155-3112-02	1	Pipe, Exhaust	14	155-4762-03	1	Clamp, Exhaust
6	404-0278-02	1	Panel, End Cap	15	A034V246	1	Sensor, Oxygen
7	404-0279-02	1	Panel, Duct	16	505-2476	1	Plug, Threaded (M18 x 1.5)
8	404-0280-02	1	Baffle, Air	17	526-0045	8	Washer, Flat
				18	821-6007-02	20	Screw, Hex Head

**Muffler With Catalyst
GGHG/GGHH (Begin Spec L)
GGHJ (Spec A)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A026F055	1	Muffler (Includes the Following 4 Items)	404-0363-03	1	1	Alum Housing With Catalyst
	155-4775	2	Clamp, Exhaust	404-0279-02	1	1	Steel Housing With Catalyst and Non-Housed With Catalys
	A026D598	1	Muffler, Outlet				
	A026D682	1	Muffler, Inlet	12			Baffle, Air
2	A026D978	1	Converter, Catalytic	404-0364-02	1	1	Alum Housing With Catalyst
3	821-6003-02	10	Screw, Hex Head	404-0280-02	1	1	Steel Housing With Catalyst and Non-Housed With Catalyst
4	155-3102-03	1	Sheild, Rain - Housed				
5	155-2062-10	1	Cap, Rain - Housed	13	A043C933	1	Baffle, Exhaust
6	A042U393	1	Tube, Exhaust	14	155-4366-02	1	Baffle, Exhaust
7			Panel, End Cap	15	508-0144	1	Grommet, Rubber
	404-0362-03	1	Alum Housing With Catalyst	16	155-4387-02	1	Cover, Exhaust - Non-Housed
	404-0278-02	1	Steel Housing With Catalyst and Non-Housed W/Catalyst	17	155-4762-02	1	Clamp, Exhaust
8	870-2271-01 A/R		Nut, Clinch	18	505-2476	1	Plug, Hole
9	821-6007-02	20	Screw, Hex Head	19	A034V246	1	Sensor, Oxygen
10	193-0496	1	Adapter, Sensor	20	526-0077	4	Washer, Flat
11			Panel, Duct	21	A032Y415	1	Installation, Exhaust

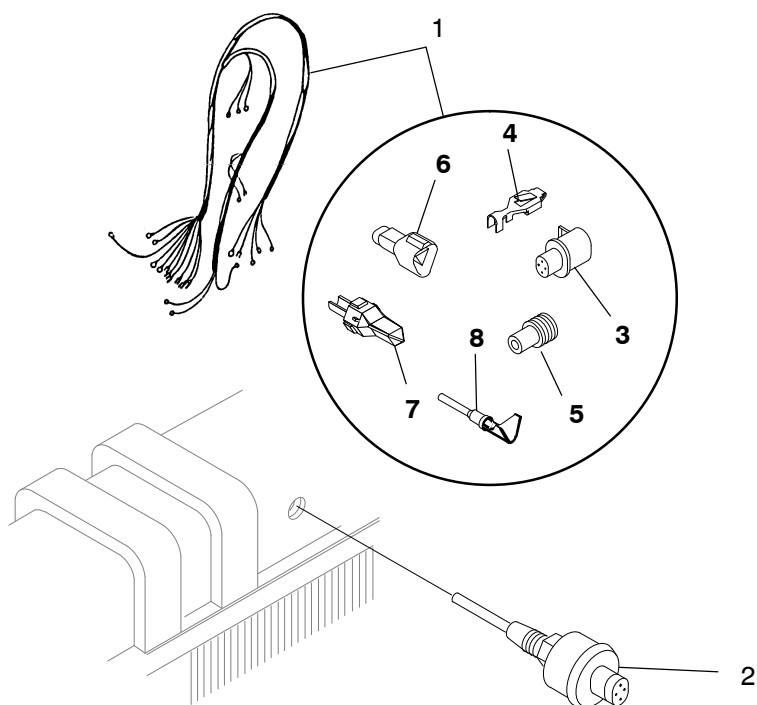
Turbocharger **GGHG/GGHH (Spec E-K)**



Turbocharger **GGHG/GGHH (Spec E-K)**

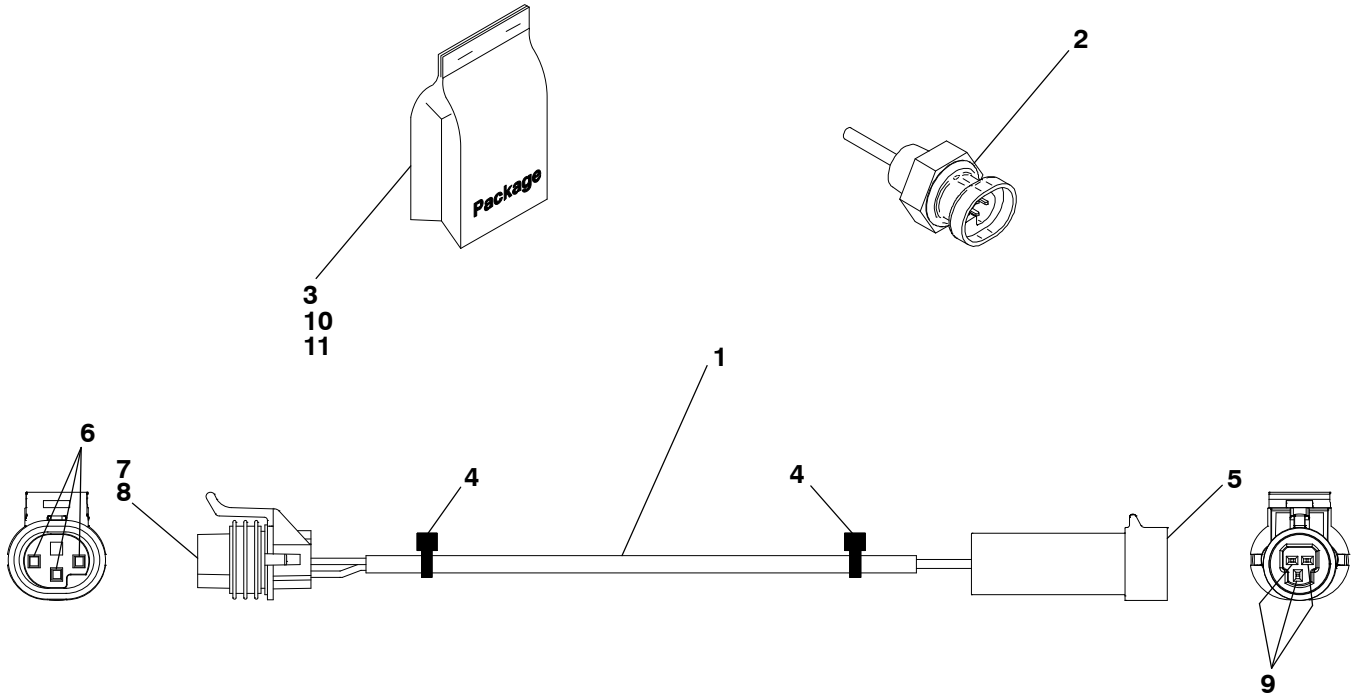
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4342	1	Tube, Exhaust – Turbo	15	520-2407	4	Stud (M10 x 1.5 x 40)
2	C0127032400	1	Gasket, Turbocharger	16	154-3105	2	Gasket, Exhaust Manifold
3	145-0795	1	Turbocharger	17	154-3106	2	Gasket, Exhaust Manifold
4	154-3094	2	Manifold, Exhaust	18	526-2120	6	Washer, Flat (M10)
5	155-2565	1	Clamp, V-Band	19	870-2056	4	Nut, Hex (M10 x 1.5)
6	502-1372	1	Elbow, Hose – Barb	20	509-0290-04	1	Seal, O-Ring (5/16)
7	503-2236	1	Hose, Turbo – Drain	21	502-1381	1	Connector, Restricted
8	127-0412	1	Gasket, Oil Drain	22	502-1240	2	Adapter, Pipe
9	145-0818-02	1	Tube, Oil Drain	23	127-0441	1	Tube, Turbo Feed
10	850-2008	2	Washer, Lock – Split (M8)	24	327-0923	2	Clamp, J
11	800-2059	2	Screw, Cap – Hex Head (M8 x 1.25 x 30)	25	800-2085	2	Screw, Cap – Hex Head (M10 x 1.5 x 20)
12	503-0183	1	Clamp, Hose	26	503-1136	1	Clamp
13	526-2140	4	Washer, Flat (M12)	27	155-3116	1	Adapter, Exhaust
14	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)				

Low Coolant Level Sender GGHG/GGHH (Spec E-F)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4178-02	1	Harness, Low Coolant Level (70") (Includes Parts Marked *)	6	323-1494	1	* Connector, Receptacle
				7	323-1502	1	* Wedge, Receptacle
2	193-0468	1	Sender, Low Coolant Level	8	323-1491	3	* Terminal, Pin (S7)
3	323-1765	1	* Housing, Connector (4 Pin)	* - Parts Included in 338-4178-02 Wiring Harness			
4	323-1709	4	* Socket, Contact (Used in S7)				
5	323-1708	4	* Seal, Cable				

Low Coolant Level Sender GGHG/GGHH (Begin Spec G)



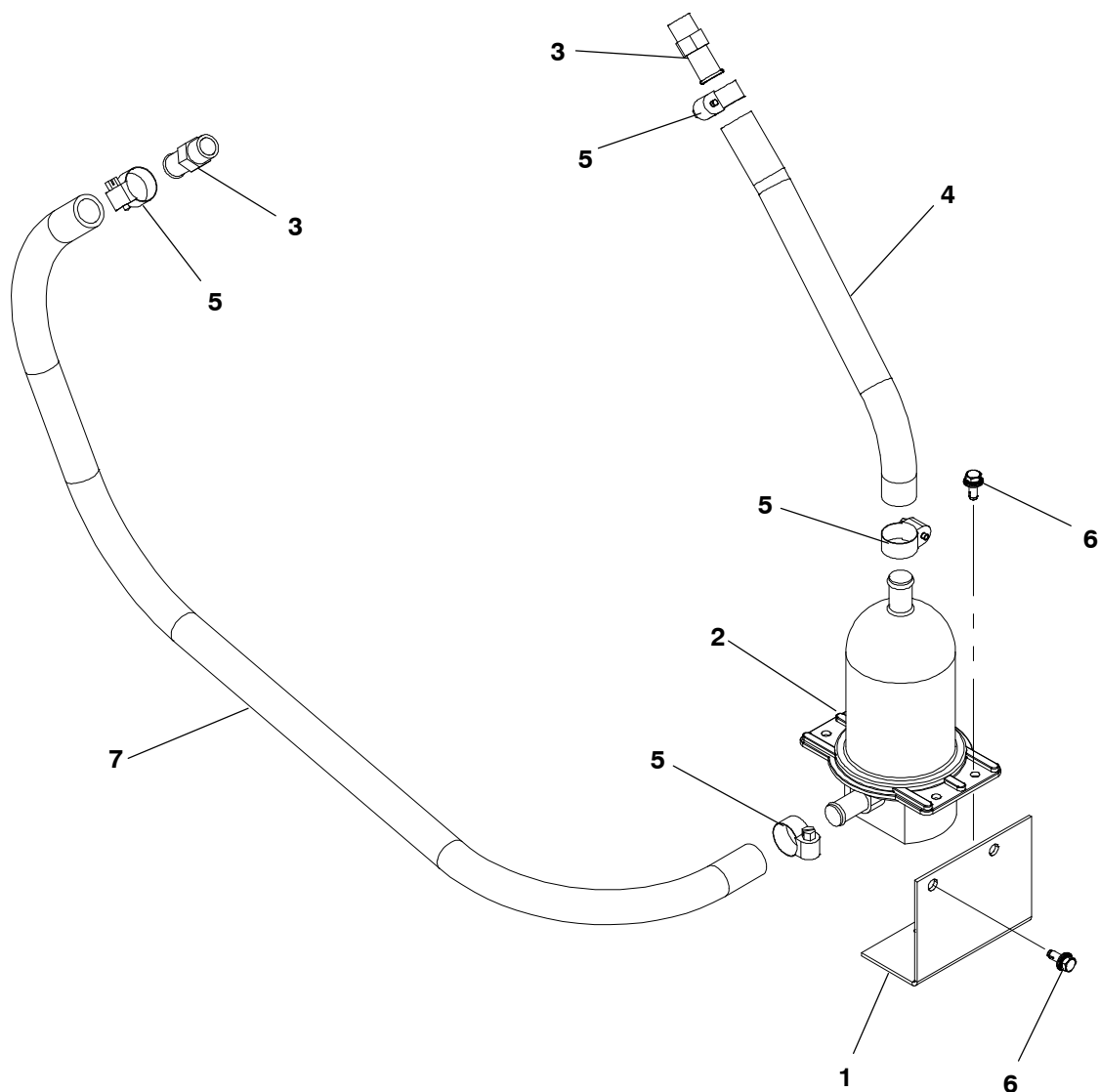
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A029L465	1	Harness, Low Coolant Level (Includes Parts Marked *)
2	A028Z105	1	Sender, Low Coolant Level
3	A029Y148	1	Kit, Harness (Includes Parts Marked ^)
4	0332-3388	2	* Tie, Cable
5	A029H446	1	* Housing, Receptacle
6	0323-1709	3	* Terminal, Socket
7	0323-1708	4	* Seal, Cable

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	0323-1765	1	* Housing, Connector (4 Pin)
9	A029R644	3	* Contact, Pin
10	A029L465	3	^ Harness, Low Coolant Level
11	A028Z105	1	^ Sender, Low Coolant Level

* – Parts Included in A029L465 Wiring Harness

^ – Parts Included in A029Y148 Harness Kit

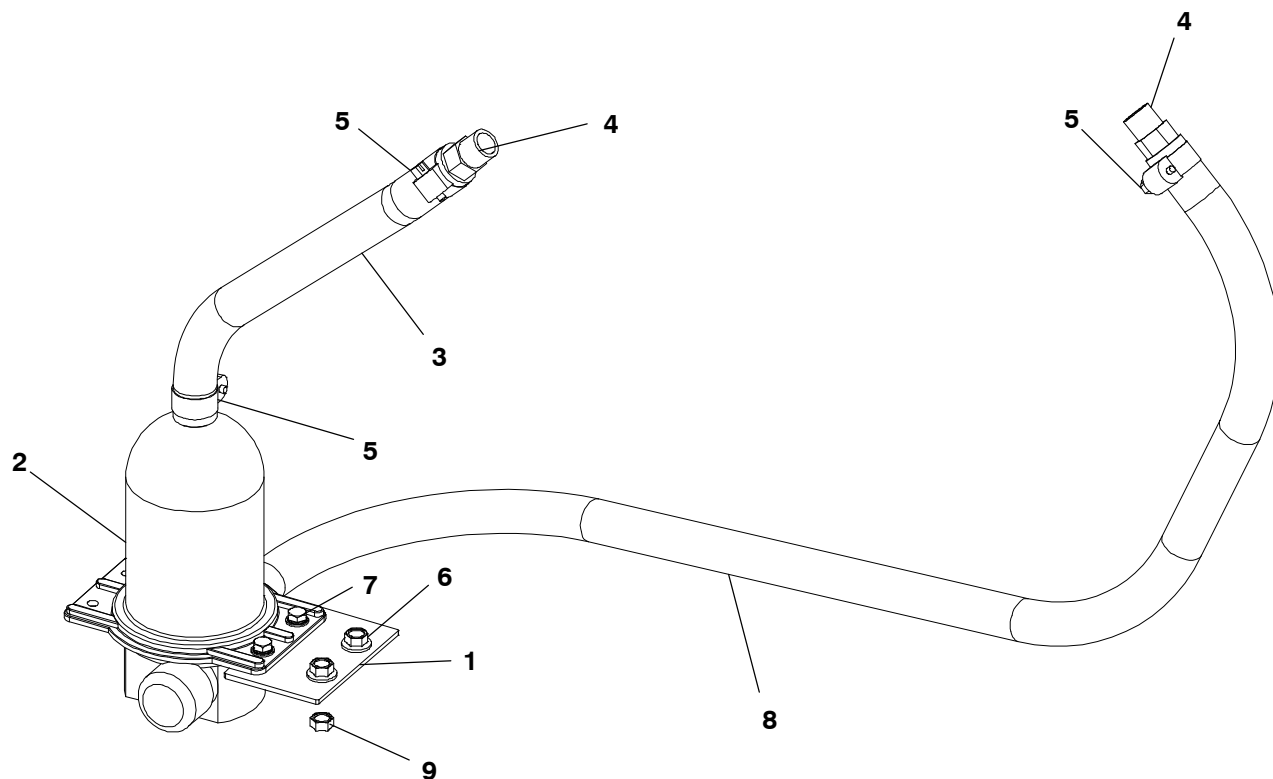
Coolant Heater GGHG/GGHH (Spec E)



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

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	A051P377	1	Hose, Heater
5	503-0183	4	Clamp, Hose
6	821-6006-01	4	Screw, Hex Head – Stainless Steel (M6 x 1 x 16)
7	A051P389	1	Hose, Coolant

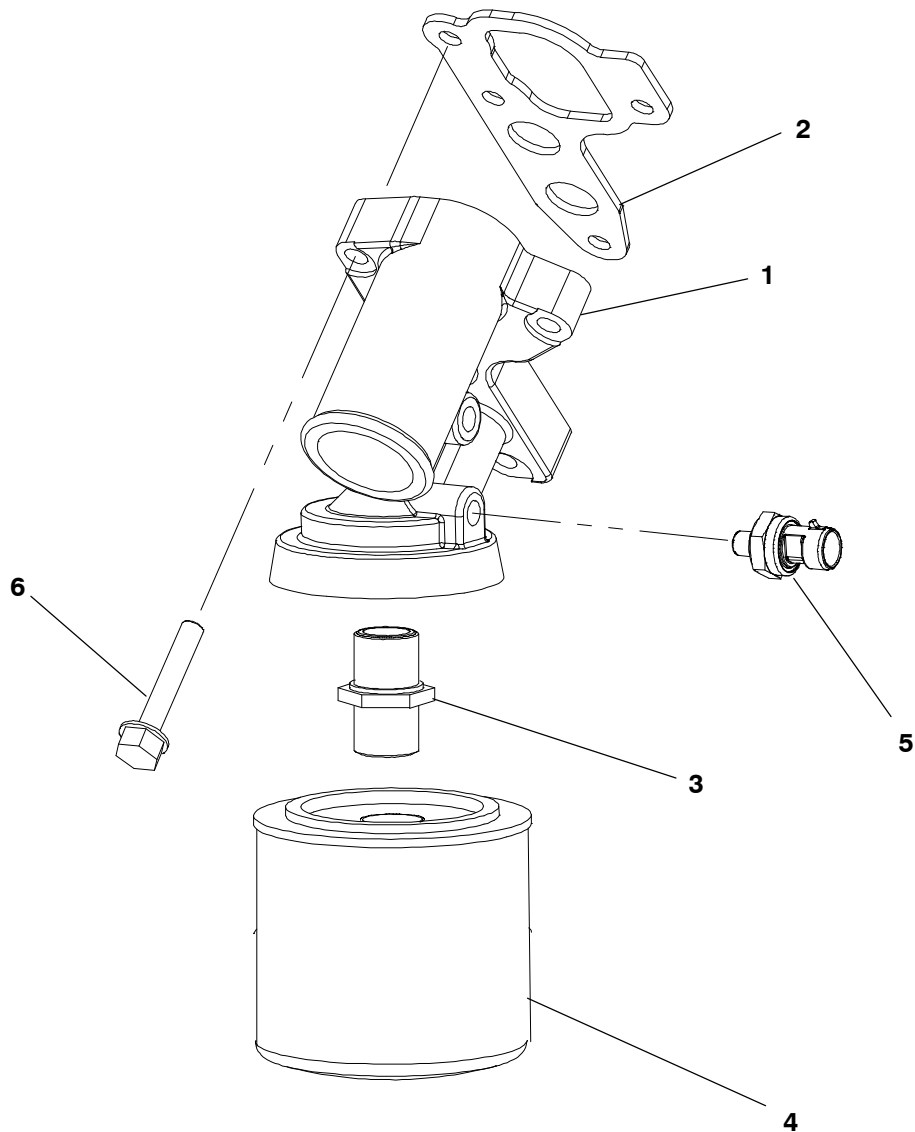
**Coolant Heater
GGHG/GGHH (Begin Spec F)
GGHJ (Spec A)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0695-02	1	Bracket, Heater
2	333-0588-03	1	Heater, Engine Coolant
	333-0588-04	1	120 Volt
		1	240 Volt
3	503-1988	1	Hose, Heater (280mm)
4	502-0943	2	Connector, Hose (3/8 x 5/8)
5	503-0183	4	Clamp, Hose

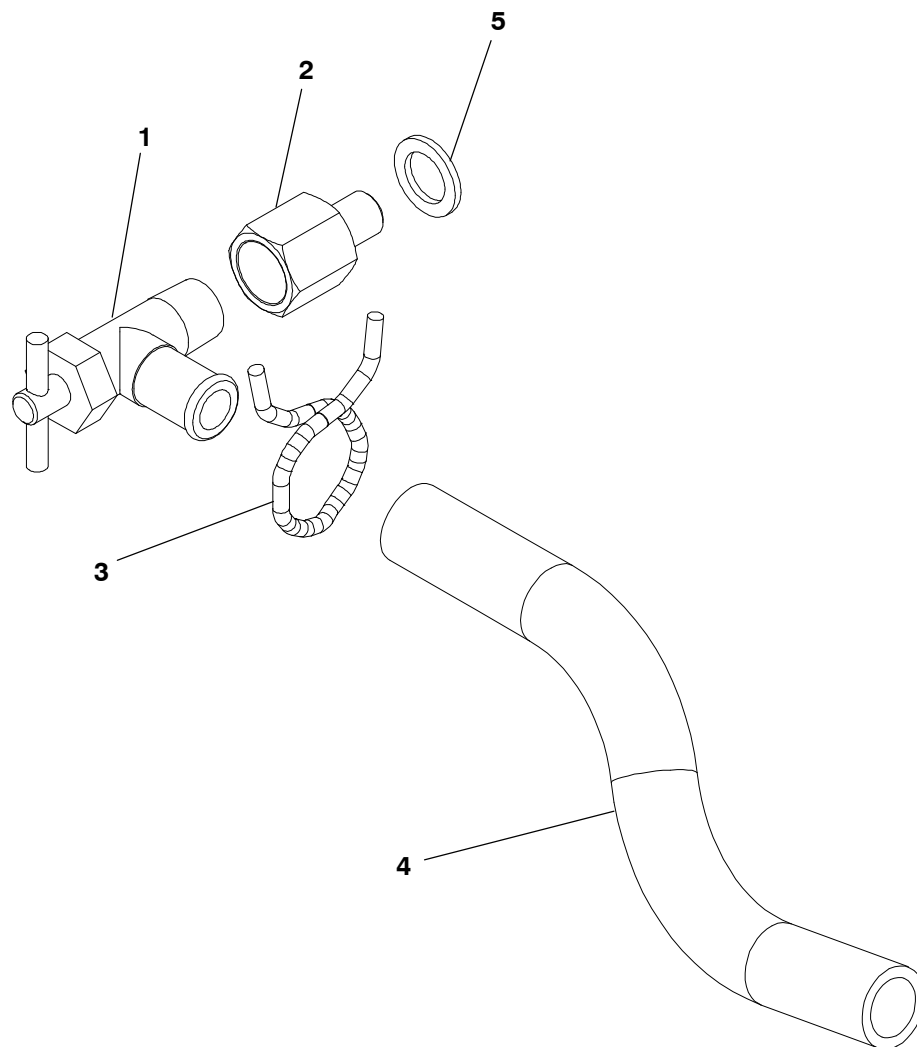
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	815-0261	2	Screw, Hex Washer Head – Thread Forming (1/4–20 x .50)
7	821-6002-02	2	Screw, Hex Head (M6 x 1 x 12)
8	503-2293-10	1	Hose, Coolant
9	870-0485-14	2	Nut (M6)

**Oil Filter
(Except Prime Power)
GGHG/GGHH/GGHJ**



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

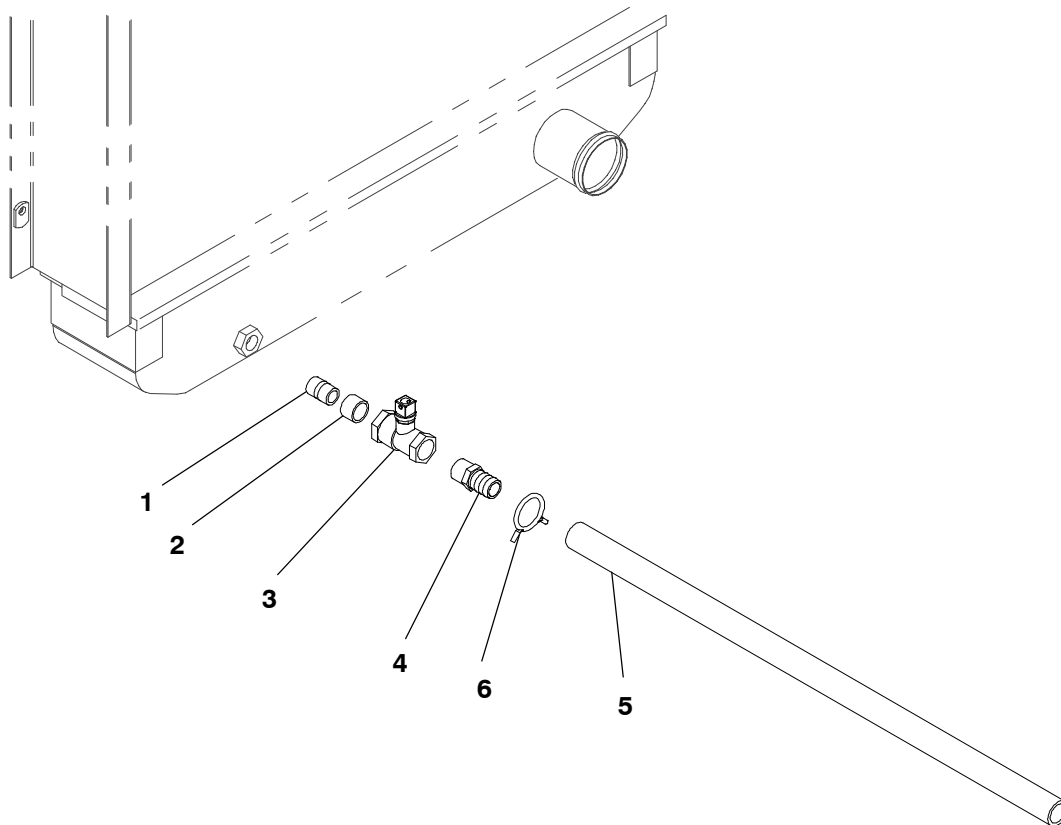
**Oil Drain Extension
(Except Prime Power)
GGHG/GGHH (Begin Spec E)
GGHJ (Spec A)**



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

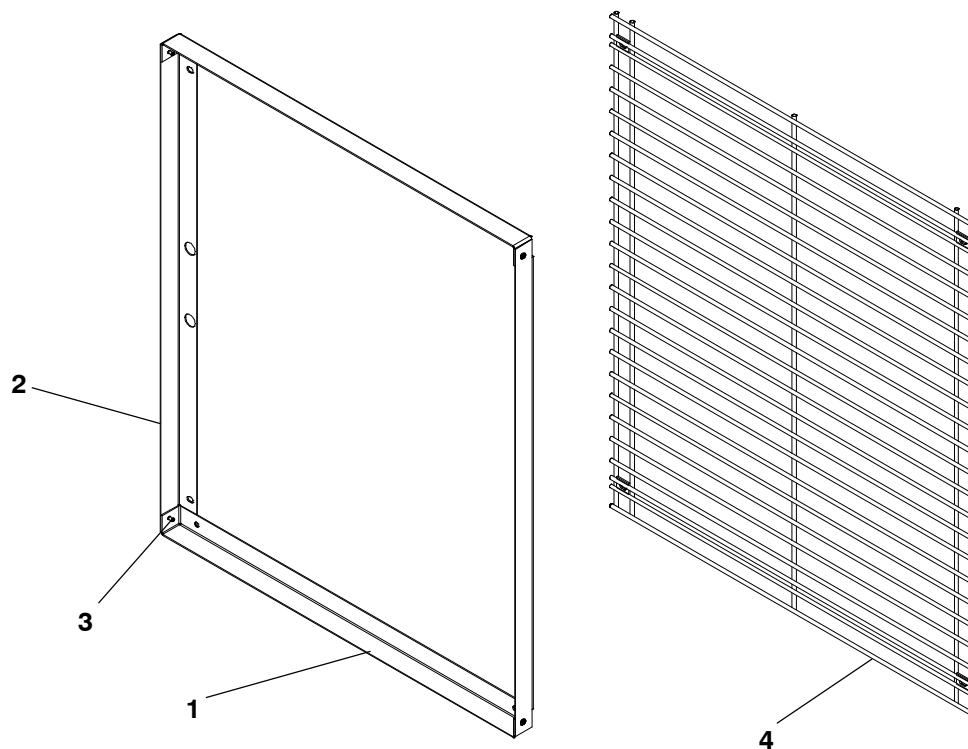
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	503-1660-06	1	Hose, Oil Drain – 24"
5	102-1320	1	Gasket, Oil Drain

Radiator Drain Extension GGHG/GGHH (Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-0047	1	Nipple, Pipe – Brass (1/4")	4	502-0827	1	Barb, Hose (1/2 x 3/4)
2	502-0029-04	1	Bushing, Flush (1/4" x 1/2")	5	503-1195	1	Hose, Breather
3	504-0011	1	Valve, Shutoff (1/2")	6	503-0183	1	Clamp, Hose

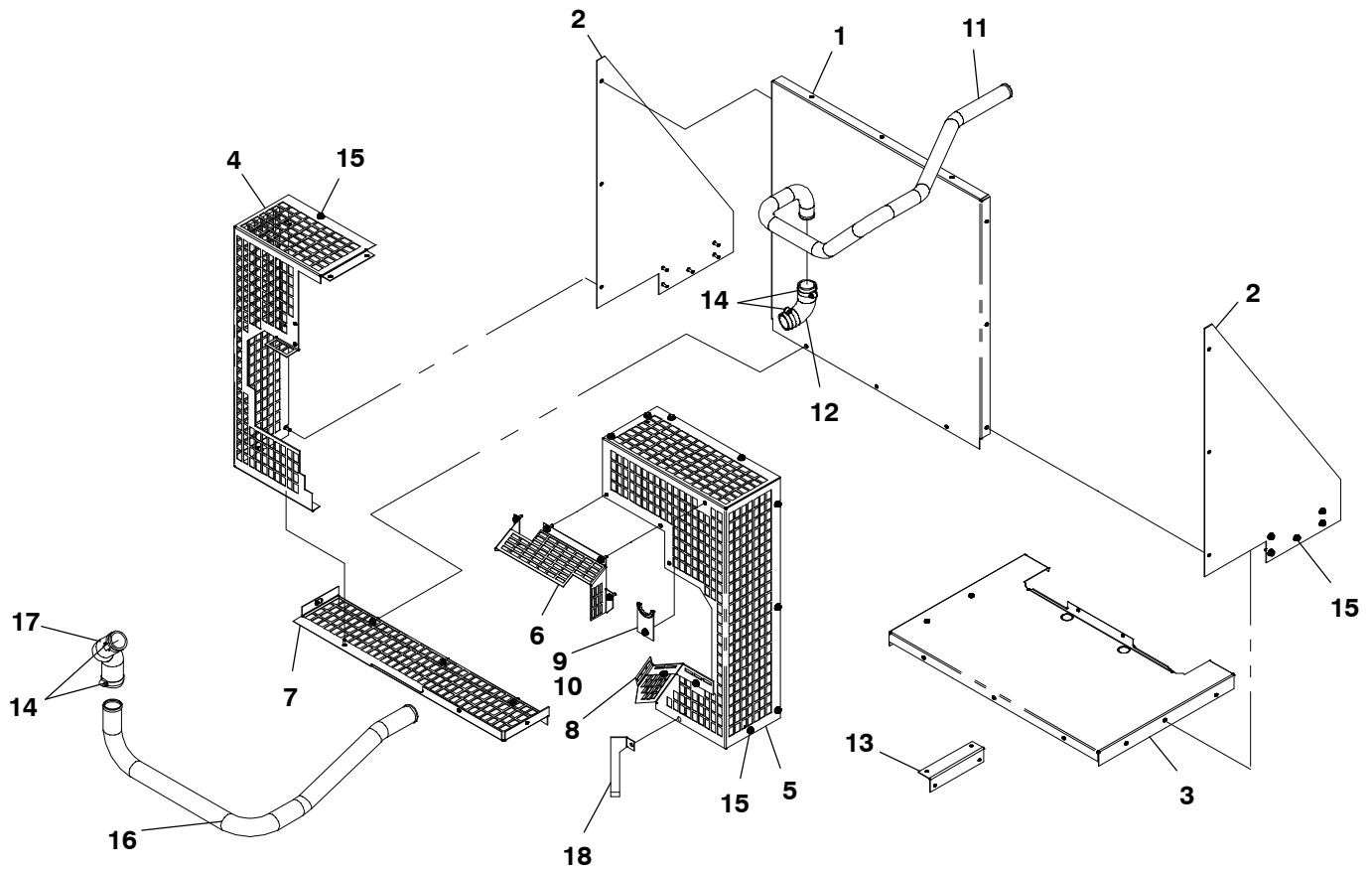
Duct Adapter
GGHG/GGHH (Begin Spe E)
GGHJ (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4622	2	Adapter, Duct
2	130-4734	2	Adapter, Duct - Side

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	818-0231-02	4	Rivet, Pop
4	130-4735	1	Grille

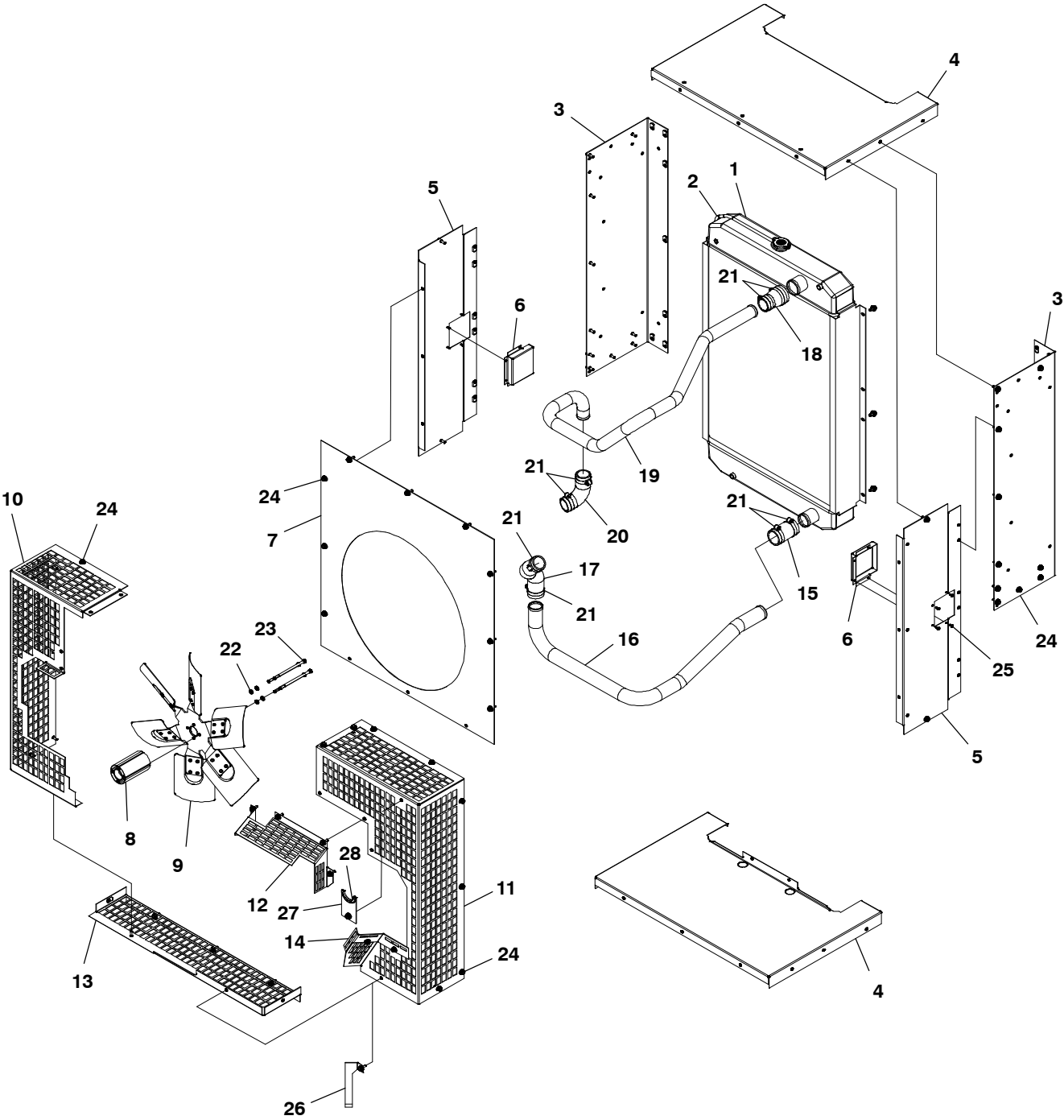
**Remote Radiator
GGHG/GGHH (Begin Spe E)
GGHJ (Spec A)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5410-02	1	Panel, Radiator Housing – Front	10	508-0305-02	–	Edging – Bulk (Order by the Foot – 1 Foot Required)
2	130-5409-02	2	Panel, Radiator Housing – Side	11	130-5362-02	1	Tube, Inlet
3	130-5397-02	1	Cover, Shroud – Bottom	12	130-5360	1	Hose, Inlet
4	130-5317-02	1	Guard, Fan – Left Side	13	102-1502-02	1	Bracket, Oil Cooler
5	130-5316-02	1	Guard, Fan – Right Side	14	503-1142	4	Clamp, Hose
6	130-5320-02	1	Guard, Alternator	15	821-6003-02	36	Screw, Hex Head (M8 x 1.25 x 20)
7	130-5318-02	1	Guard, Fan – Lower	16	130-5364-02	1	Tube, Outlet
8	130-5306-02	1	Guard, Fan	17	130-5363	1	Hose, Outlet
9	130-5430-02	1	Support, Tube	18	130-5319-02	1	Hose, Hanger

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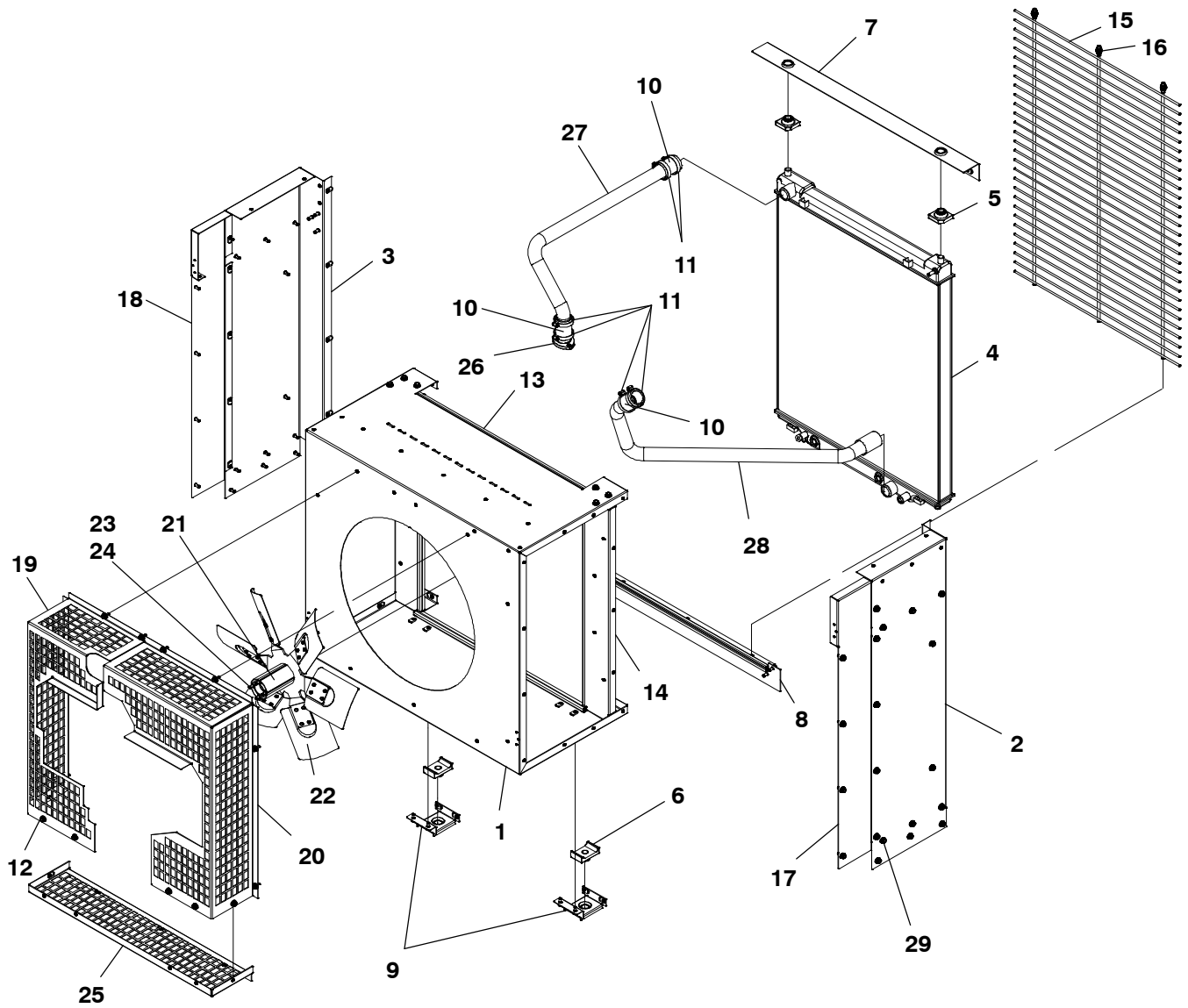
Radiator **GGHG/GGHH (Spec E)**



Radiator **GGHG/GGHH (Spec E)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Radiator (Includes Over Flow Hose)	14	130-5306-02	1	Guard, Fan
	130-4691-01	1	2 Row	15	503-1554	1	Hose, Radiator
	130-4691-02	1	3 Row	16	130-5364-02	1	Tube, Outlet
2	503-0276	-	Hose, Over Flow - Bulk (Order by the Foot - 5 Feet Required)	17	130-5363	1	Hose, Outlet
				18	130-5365	1	Hose, Inlet
3	130-4694	2	Side, Housing	19	130-5362-02	1	Tube, Inlet
4	130-5313-02	2	Cover, Shroud	20	130-5360	1	Hose, Inlet
5	130-5398-02	2	Panel, Shroud - Side	21	503-1142	8	Clamp, Hose
6	130-5399-02	2	Cover, Shroud - Latch	22	526-2101	4	Washer, Flat (M8)
7	130-5312-02	1	Shroud - 24" Fan	23	800-2077	4	Screw, Cap - Hex Head (M8 x 1.25 x 150)
8	130-5213-01	1	Spacer, Fan	24	821-6003-02	59	Screw, Hex Head (M8 x 1.25 x 20)
9	130-5287	1	Fan, Radiator	25	818-0231-02	8	Rivet, Pop
10	130-5317-02	1	Guard, Fan - Right Hand	26	130-5319-02	1	Hanger, Hose (Lower)
11	130-5316-02	1	Guard, Fan - Left Hand	27	130-5430-02	1	Support, Tube
12	130-5320-02	1	Guard, Alternator	28	508-0305-02	-	Edging - Bulk (Order by the Foot - 1 Foot Required)
13	130-5318-02	1	Guard, Fan - Lower				

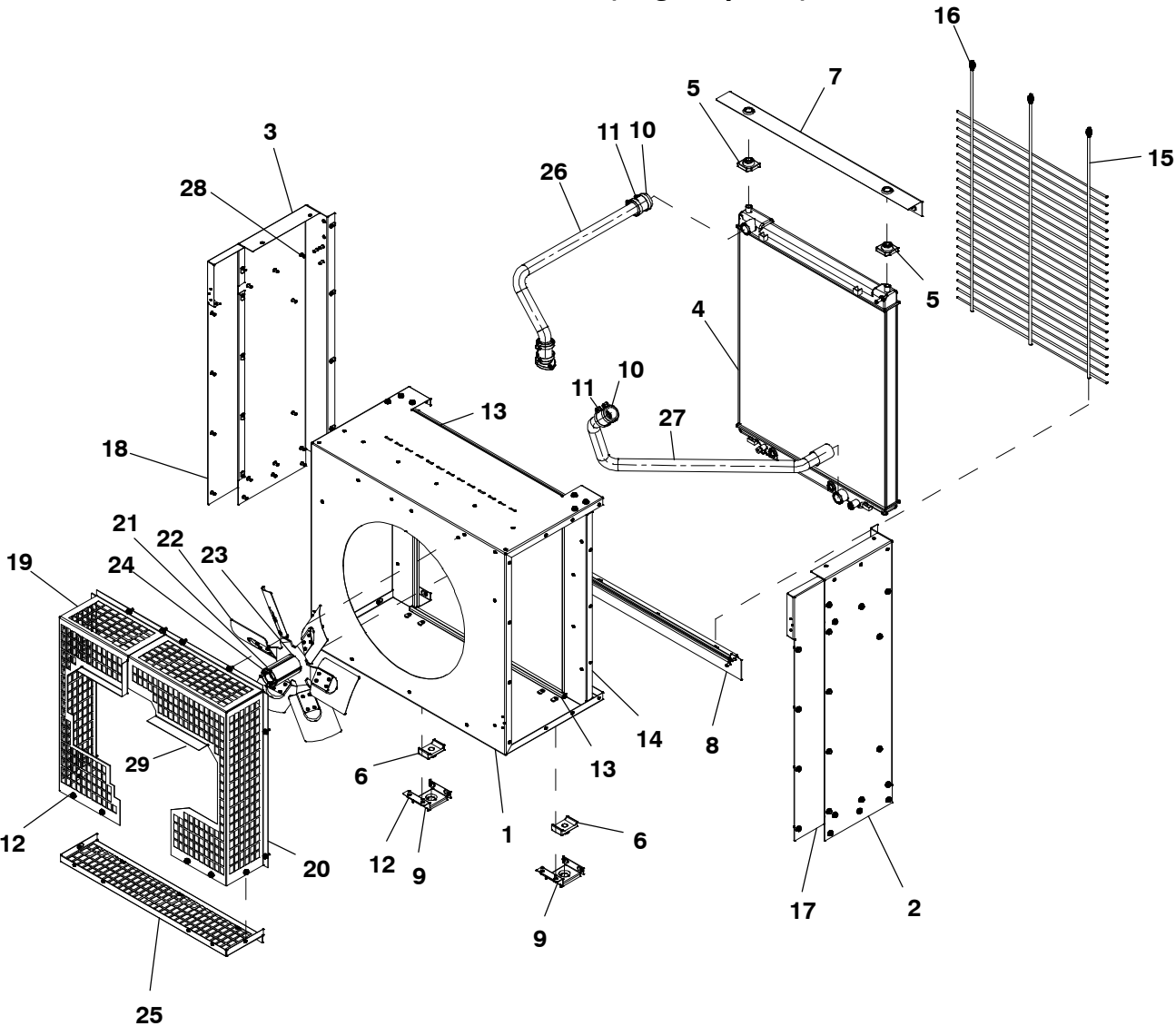
Radiator **GGHG/GGHH (Spec F-K)**



Radiator **GGHG/GGHH (Spec F-K)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6216-02	1	Shroud, Fan	15	130-6530-02	1	Guard, Radiator
2	130-6159-02	1	Bracket, Shroud – With Steel Housing	16	870-0550-09	6	Nut, Hex – Flange (3/8-16)
3	130-6160-02	1	Bracket, Shroud – With Steel Housing	17	130-6317-02	1	Cover, Shroud – With Steel Housing
4	130-5996-01	1	Radiator – Without Oil Cooler	18	130-6318-02	1	Cover, Shroud – With Steel Housing
5	508-1197	2	Bushing	19	130-6352-02	1	Guard, Radiator Fan (LH)
6	508-1196	2	Bushing	20	130-6351-02	1	Guard, Radiator Fan (RH)
7	130-5999-02	1	Bracket, Radiator	21	130-5213-01	1	Spacer, Fan
8	405-7809-02	1	Panel, Duct – With Steel Housing	22	130-5287	1	Fan, Radiator
9	130-6003-02	2	Bracket, Radiator	23	526-2101	4	Washer, Flat (M8)
10	503-2463	4	Hose, Radiator	24	800-2077	4	Screw, Cap – Hex Head (M8 x 1.25 x 150)
11	503-1141	6	Screw, Hose Clamp	25	130-6353-02	1	Guard, Radiator Fan
12	821-6003-01	29	Screw, Hex Head (M8 x 1.25 x 16)	26	130-6350	1	Housing, Thermostat
13	895-0381	–	Seal, Weather – Bulk (Order by the Foot – 15 Feet Required)	27	130-6358-02	1	Tube, Radiator
14	130-6126-02	2	Baffle, Air – Radiator	28	130-6359-02	1	Tube, Radiator
				29	821-6007-02	50	Screw, Hex Head (M8 x 1.25 x 20)

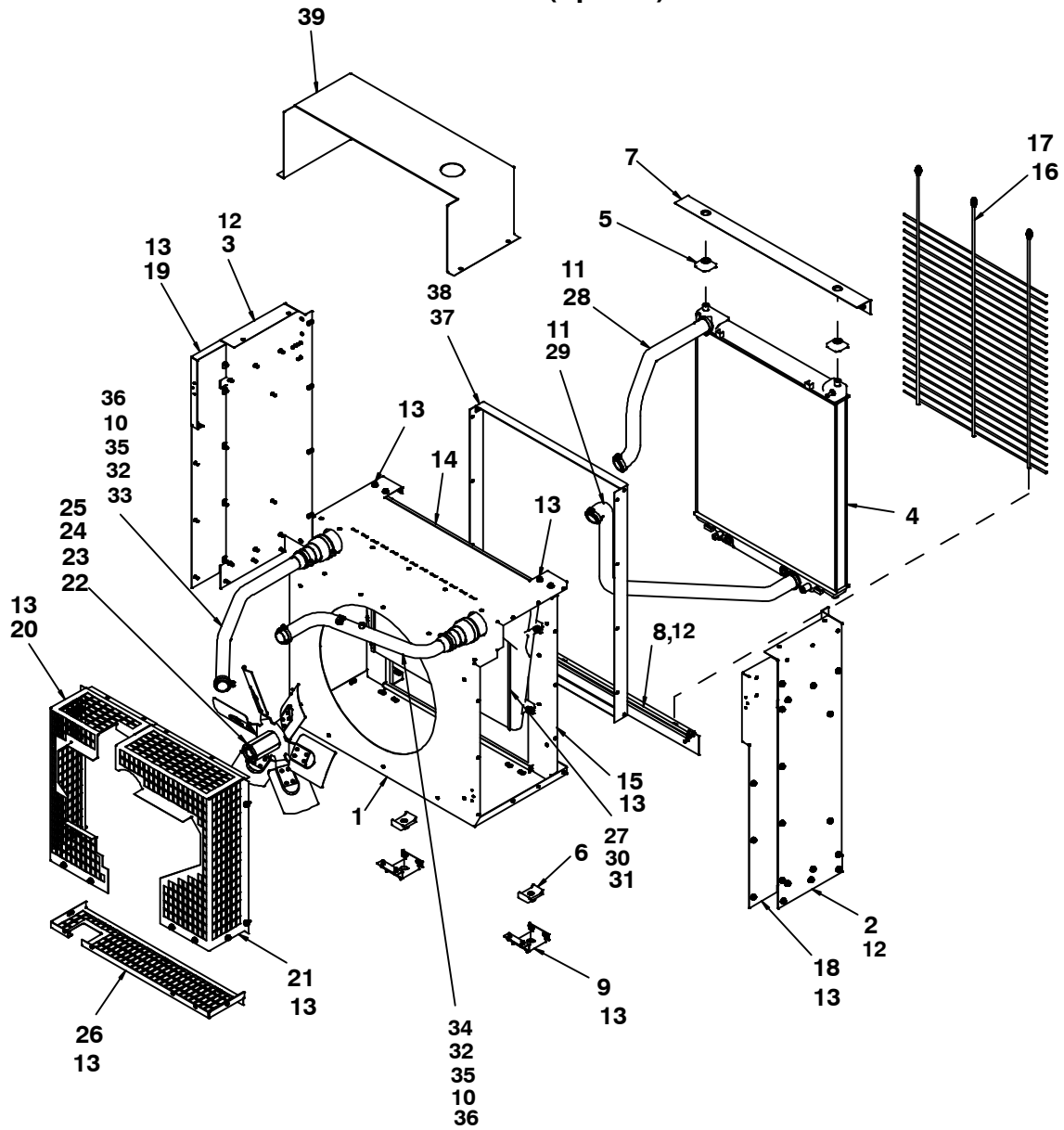
Radiator **GGHG/GGHH (Begin Spec L)**



Radiator **GGHG/GGHH (Begin Spec L)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6216-02	1	Shroud, Fan	19			Guard, Radiator Fan (LH)
2	130-6159-02	1	Bracket, Shroud – With Steel Housing		A034E770	1	(Spec L-M)
					A048E079	1	(Spec N)
3	130-6160-02	1	Bracket, Shroud – With Steel Housing	20			Guard, Radiator Fan (RH)
4	130-5996-01	1	Radiator		130-6351-02	1	(Spec L-M)
5	508-1197	2	Bushing		A048G302	1	(Spec N)
6	508-1196	2	Bushing	21	130-5213-01	1	Spacer, Fan
7	130-5999-02	1	Bracket, Radiator	22	130-5287	1	Fan, Radiator
8	405-7809-02	1	Panel, Duct – With Steel Housing	23	526-2101	4	Washer, Flat (M8)
				24	800-2077	4	Screw, Cap – Hex Head (M8 x 1.25 x 150)
9	130-6003-02	2	Bracket, Radiator	25			Guard, Radiator Fan
10	503-2463	4	Hose, Radiator		130-6353-02	1	(Spec L-M)
11	503-1141	8	Clamp		A041C700	1	(Spec N)
12	821-6003-01	29	Screw, Hex Head (M8 x 1.25 x 16)	26			Tube, Radiator
					130-6358-02	1	(Spec L-M)
13	895-0381	–	Seal, Weather – Bulk (Order by the Foot – 15 Feet Required)		A041C779	1	(Spec N)
14	130-6126-02	2	Baffle, Air – Radiator	27			Tube, Radiator
15	130-6530-02	1	Guard, Radiator		130-6359-02	1	(Spec L-M)
16	870-0550-09	6	Nut, Hex – Flange (3/8-16)		A041C781	1	(Spec N)
17	130-6317-02	1	Cover, Shroud – With Steel Housing	28	821-6007-02	50	Screw, Hex Head
				29	A045X760	1	Trim, Edge (Spec N)
18	130-6318-02	1	Cover, Shroud – With Steel Housing				

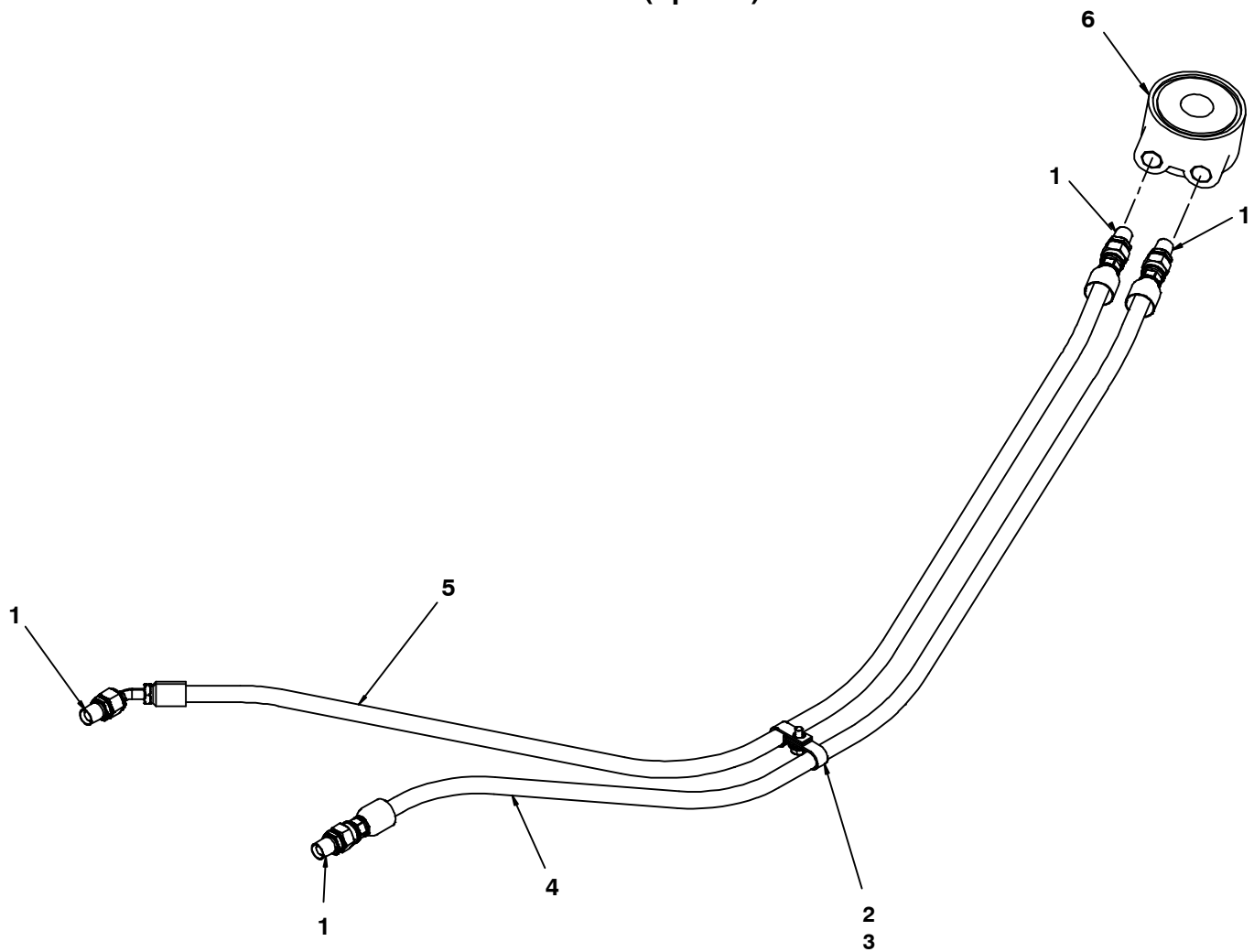
Radiator GGHJ (Spec A)



Radiator GGHJ (Spec A)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A030J966	1	Shroud, Fan		A041F359	1	(Aluminum)
2			Bracket, Shroud	19			Cover, Shroud
	130-6159-02	1	(Steel)		A030K523	1	(Steel)
	130-7052-03	1	(Aluminum)		A041F361	1	(Aluminum)
3			Bracket, Shroud	20	A030K355	1	Guard, Radiator Fan (LH)
	130-6160-02	1	(Steel)	21	A030K359	1	Guard, Radiator Fan (RH)
	130-7053-02	1	(Aluminum)	22	130-5213-01	1	Spacer, Fan
4	130-5996-02	1	Radiator	23	0130-5287	1	Fan, Radiator
5	508-1197	2	Bushing	24	526-2101	4	Washer, Flat (M8)
6	508-1196	2	Bushing	25	800-2077	4	Screw, Cap – Hex Head (M8 x 1.25 x 150)
7	130-5999-02	1	Bracket, Radiator				
8	405-7809-02	1	Panel, Duct – With Steel Housing	26	A041C700	1	Guard, Radiator Fan
9	130-6003-02	2	Bracket, Radiator	27	154-3178	1	Cooler, Charge Air
10	503-1872-06	2	Clamp	28	A041C779	1	Tube, Radiator
11	503-1141	4	Clamp	29	A041C781	1	Tube, Radiator
12	821-6007-02	42	Screw, Hex Head (M8 X 1.23 x 20)	30	526-0113	4	Washer, Flat
13	821-6003-01	33	Screw, Hex Head (M8 x 1.25 x 16)	31	800-2059	4	Screw, Hex Head
14	895-0381	–	Seal, Weather – Bulk (Order by the Foot – 15 Feet Required)	32	502-1503	2	Connector, Tube
15	130-6126-02	2	Baffle, Air – Radiator	33	A040G852	1	Tube, Turbocharger
16	130-6530-02	1	Guard, Radiator	34	A040G854	1	Tube, Turbocharger
17	870-0550-09	6	Nut, Hex – Flange (3/8-16)	35	503-1872-04	2	Clamp, Hose
18			Cover, Shroud	36	A034V215	2	Clamp, Tee Bolt
	A030K521	1	(Steel)	37	A041G403	2	Adapter, Duct
				38	A041G411	2	Adapter, Duct
				39	0405-9585-02	1	Panel, Duct
				40	A045X760	1	Trim, Edge (not shown)

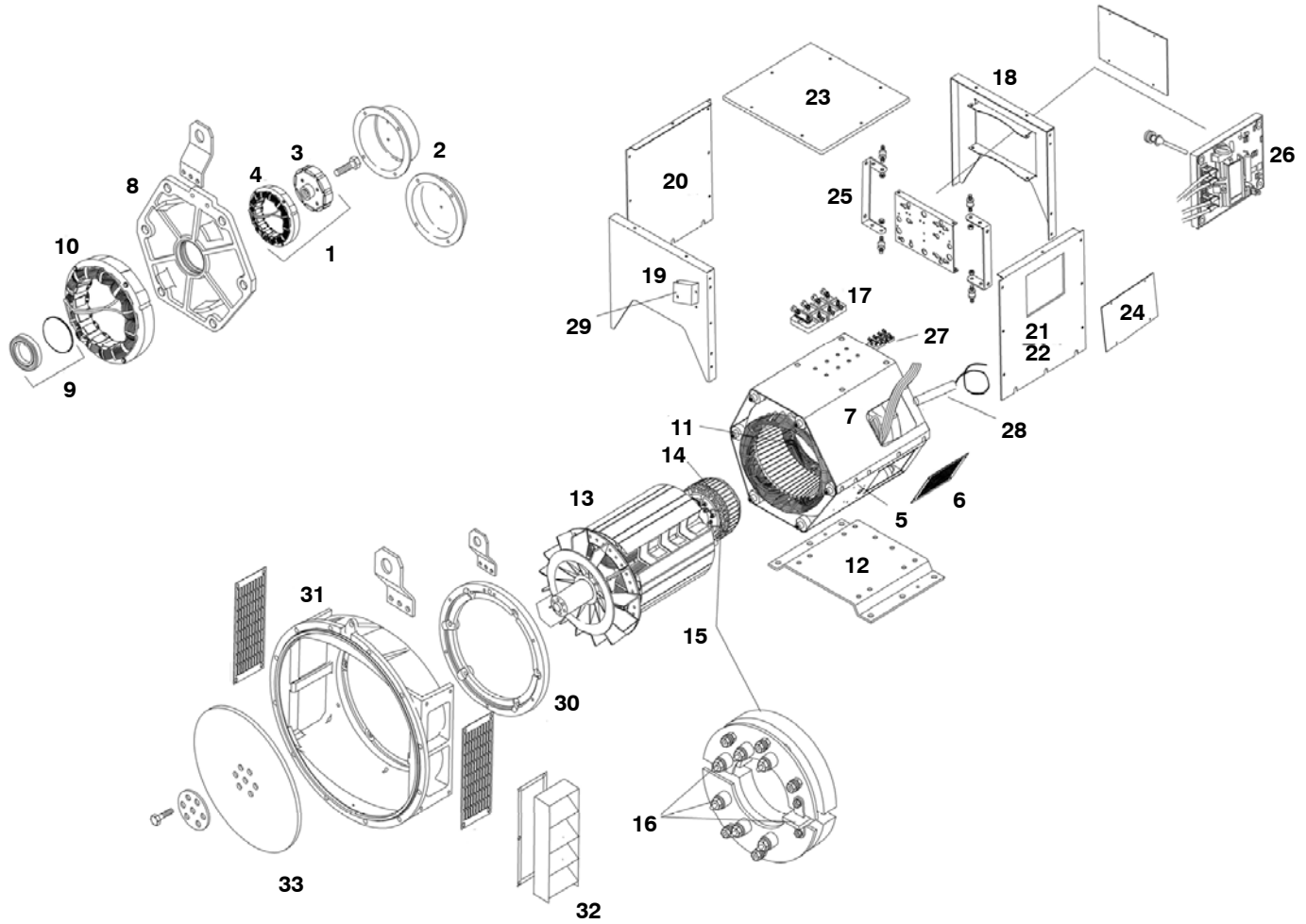
Oil Cooler GGHJ (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A041K798	1	Tube, Adapter	2	518-0548-08	1	Clamp
3	821-6003-01	1	Screw, Hex Head	4	A041U299	1	Hose
5	A041U302	2	Hose	6	A041S521	1	Adapter, Oil Cooler

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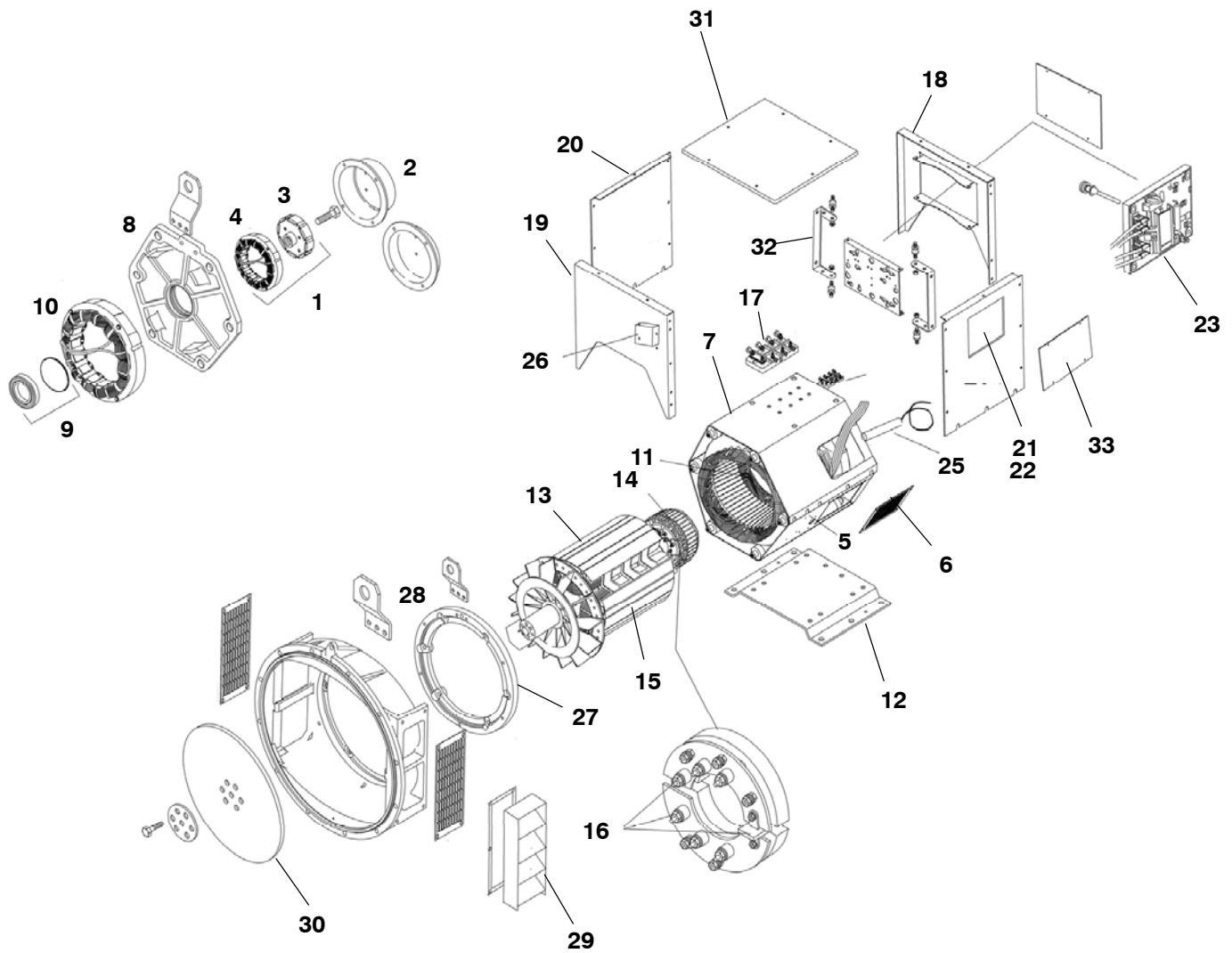
Generator – UC22 (1 Bearing)



Generator – UC22 (1 Bearing)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	45-0759A	1	Kit, Complete P.M.G. Upfit	20	230-10567	1	Panel, Terminal Box Side
2			Cover, (Cover Included in Kit)	21	230-10575	2	Panel, Terminal Box Side
	450-14360	1	P.M.G	22	230-10568	1	Panel, Terminal Box Side (Access)
	450-14450	1	NON P.M.G	23	230-10069	1	Lid, Terminal Box
3	45-1080	1	Kit, Current P.M.G. Rotor/Stator Repair	24			Plate, A.V.R. Cover
4	45-1080	1	Kit, Current P.M.G. Rotor/Stator Repair		450-14310	1	To 28/11/04
5			Main Stator Bottom Cover		450-10536	1	From 28/11/04
	230-10340	1	C-D	25	45-0742	1	Bracket, A.V.R. Mounting
	230-10341	1	E-F	26			A.V.R.
	230-10342	1	G		E000-23412/1P	1	MX341 (Series 3)
6	230-10054	2	Cover, Air Inlet		E000-23212/1P	1	MX321 (Series 3)
7			Main Stator Top Cover		E000-24403/1P	1	AS440 (Series 4)
	230-10336	1	C-D		E000-24602/1P	1	SX460 (Series 6)
	230-10337	1	E-F	27	003-14027	2	Board, Auxiliary Terminal
	230-10338	1	G	28			Heater
8	230-10002	1	Bracket, N.D.E.		45-0118	1	110-125 Volt
9	45-0867	1	Kit, N.D.E. Bearing		45-0117	1	220-260 Volt
10			Stator, Exciter	29	45-0024	1	Heater, Terminal Box
	230-1208	1	C-D (30mm)	30	330-10001	1	D.E. Adaptor Ring
	230-1209	1	F-G (40mm)	31	45-0850	1	Kit, Adaptor – UCD22 SAE 3
11	*	1	Main Stator Bar – Assembly	32	45-0807	1	Kit, Louvre – UCD22 DE
12	230-10270	1	Foot	33			Kit, Coupling
13	*	2	Rotor, Main – Assembly		45-0839	1	UCD22 SAE 10
14			Rotor, Exciter		45-0840	1	UCD22 SAE 11.5
	210-1036	1	C-D (30mm)	* – This part number depends on your machine serial number. Contact your regional CPG technical support team.			
	210-1037	1	E-G (40mm)				
15	45-0428	1	Rectifier, Rotating – Assembly				
16	RSK-2001	1	Kit, Varistor & Diode (Fwd/Rev)	NOTE: If the first position of the alternator serial number is M, the replacements for the rotor and stator are no longer available. Please contact the factory Technical Support for more information.			
17	450-15617	1	Board, Main Terminal				
18			Endpanel, Terminal Box – N.D.E.				
	230-10566	1	Access				
	230-10587	1	Plain				
19	230-10565	1	Endpanel, Terminal Box – D.E.				

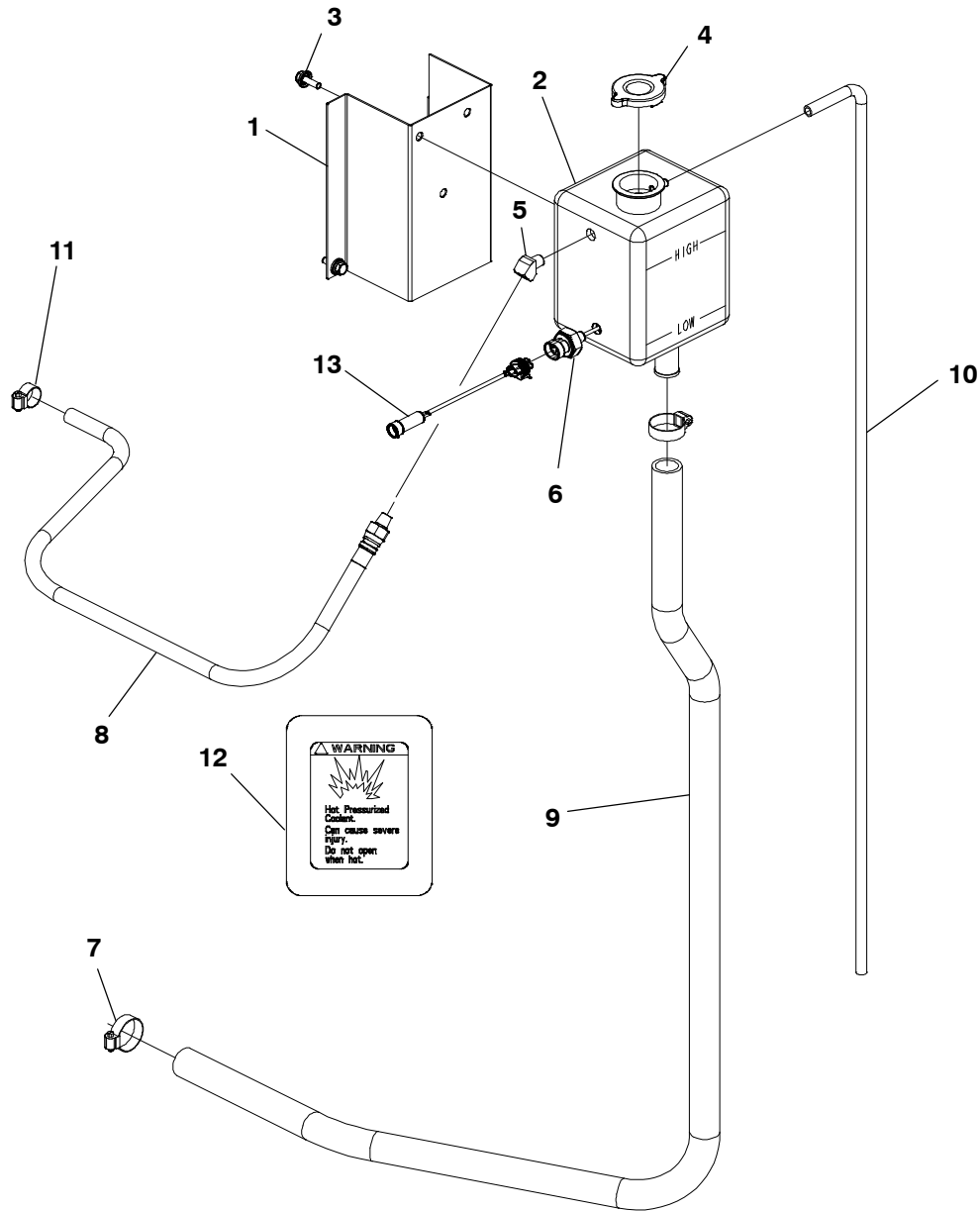
Generator – UC27 (1 Bearing)



Generator – UC27 (1 Bearing)

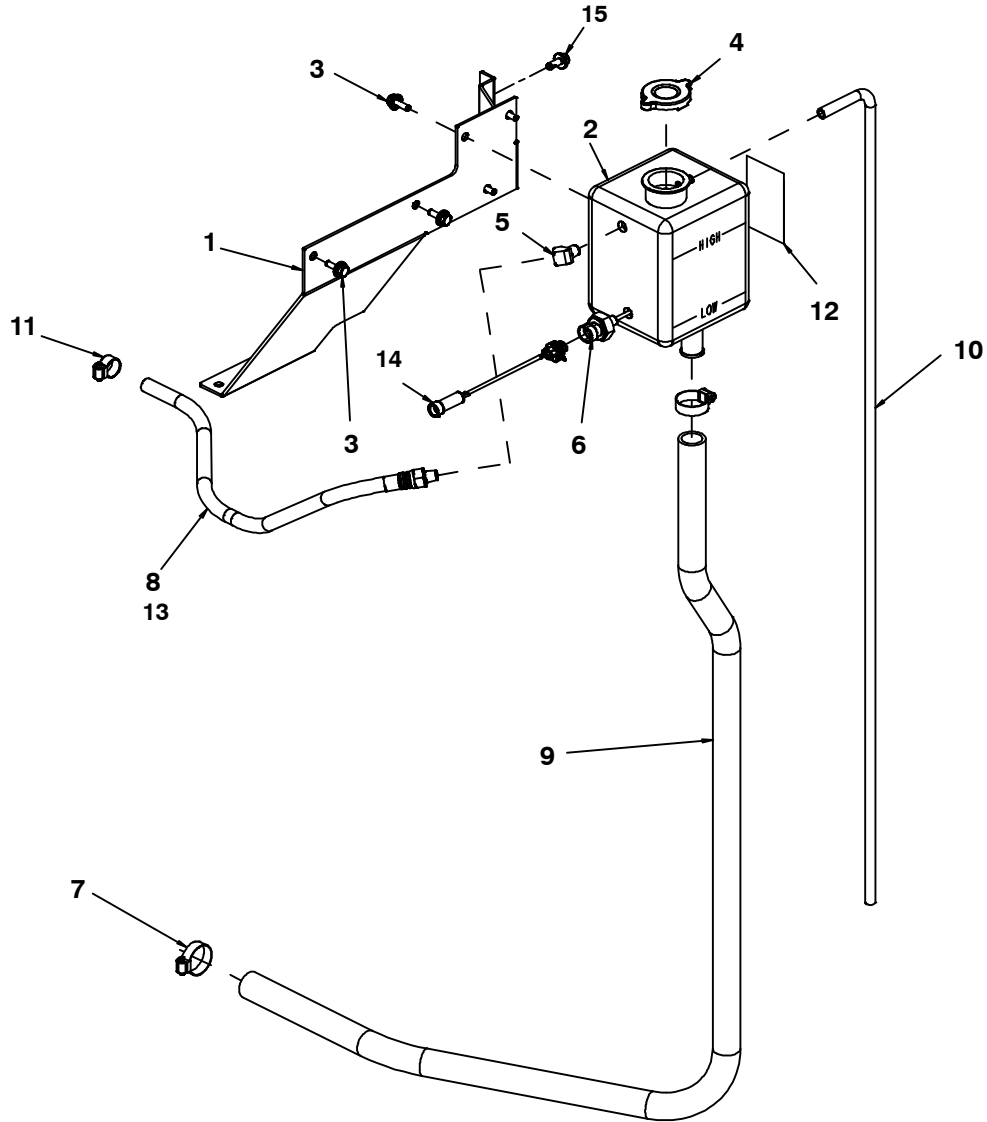
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	45-0759A	1	Kit, Complete P.M.G. Upfit	23			A.V.R.
2			Cover,(Cover Included in Kit)		E000-23412/1P	1	MX341 (Series 3)
	450-14360	1	P.M.G		E000-23212/1P	1	MX321 (Series 3)
	450-14450	1	NON P.M.G		E000-24403/1P	1	AS440 (Series 4)
3	45-1080	1	Kit, Current P.M.G. Rotor/Stator		E000-24602/1P	1	SX460 (Series 6)
			Repair	24	003-14027	2	Board, Auxiliary Terminal
4	45-1080	1	Kit, Current P.M.G. Rotor/Stator	25			Heater
			Repair		45-0118	1	110-125 Volt
5			Main Stator Bottom Cover		45-0117	1	220-260 Volt
	230-10340	1	C-D	26	45-0024	1	Heater, Terminal Box
	230-10341	1	E-F	27	330-10001	1	D.E. Adaptor Ring
	230-10342	1	G	28			Kit, Adaptor
6	230-10054	2	Cover, Air Inlet		45-0850	1	UCD22 SAE 3
7			Main Stator Top Cover		45-0851	1	UCD27 SAE 2
	230-10336	1	C-D		45-0852	1	UCD27 SAE 1
	230-10337	1	E-F	29			Kit, Louvre
	230-10338	1	G		45-0807	1	UCD22 DE
8	230-10002	1	Bracket, N.D.E.		45-0855	1	UCD27 DE
9	45-0867	1	Kit, N.D.E. Bearing	30			Kit, Coupling
10			Stator, Exciter		45-0839	1	UCD22 SAE 10
	230-1208	1	C-D (30mm)		45-0840	1	UCD22 SAE 11.5
	230-1209	1	F-G (40mm)		45-0840	1	UCD27 SAE 11.5
11	*	1	Main Stator Bar – Assembly		45-0840	1	UCD27 SAE 14
12	230-10270	1	Foot	31	230-10069	1	Lid, Terminal Box
13	*	2	Rotor, Main – Assembly	32	45-0742	1	Bracket, A.V.R. Mounting
14			Rotor, Exciter	33			Plate, A.V.R. Cover
	210-1036	1	C-D (30mm)		450-14310	1	To 28/11/04
	210-1037	1	E-G (40mm)		450-10536	1	From 28/11/04
15	45-0428	1	Rectifier, Rotating – Assembly	* – This part number depends on your machine serial number. Contact your regional CPG technical support team.			
16	RSK-2001	1	Kit, Varistor & Diode (Fwd/Rev)				
17	450-15617	1	Board, Main Terminal				
18			Endpanel, Terminal Box – N.D.E.	NOTE: If the first position of the alternator serial number is M, the replacements for the rotor and stator are no longer available. Please contact the factory Technical Support for more information.			
	230-10566	1	Access				
	230-10587	1	Plain				
19	230-10565	1	Endpanel, Terminal Box – D.E.				
20	230-10567	1	Panel, Terminal Box Side				
21	230-10575	2	Panel, Terminal Box Side				
22	230-10568	1	Panel, Terminal Box Side (Access)				

Overflow Tank GGHG & GGHH (Begin Spec F)



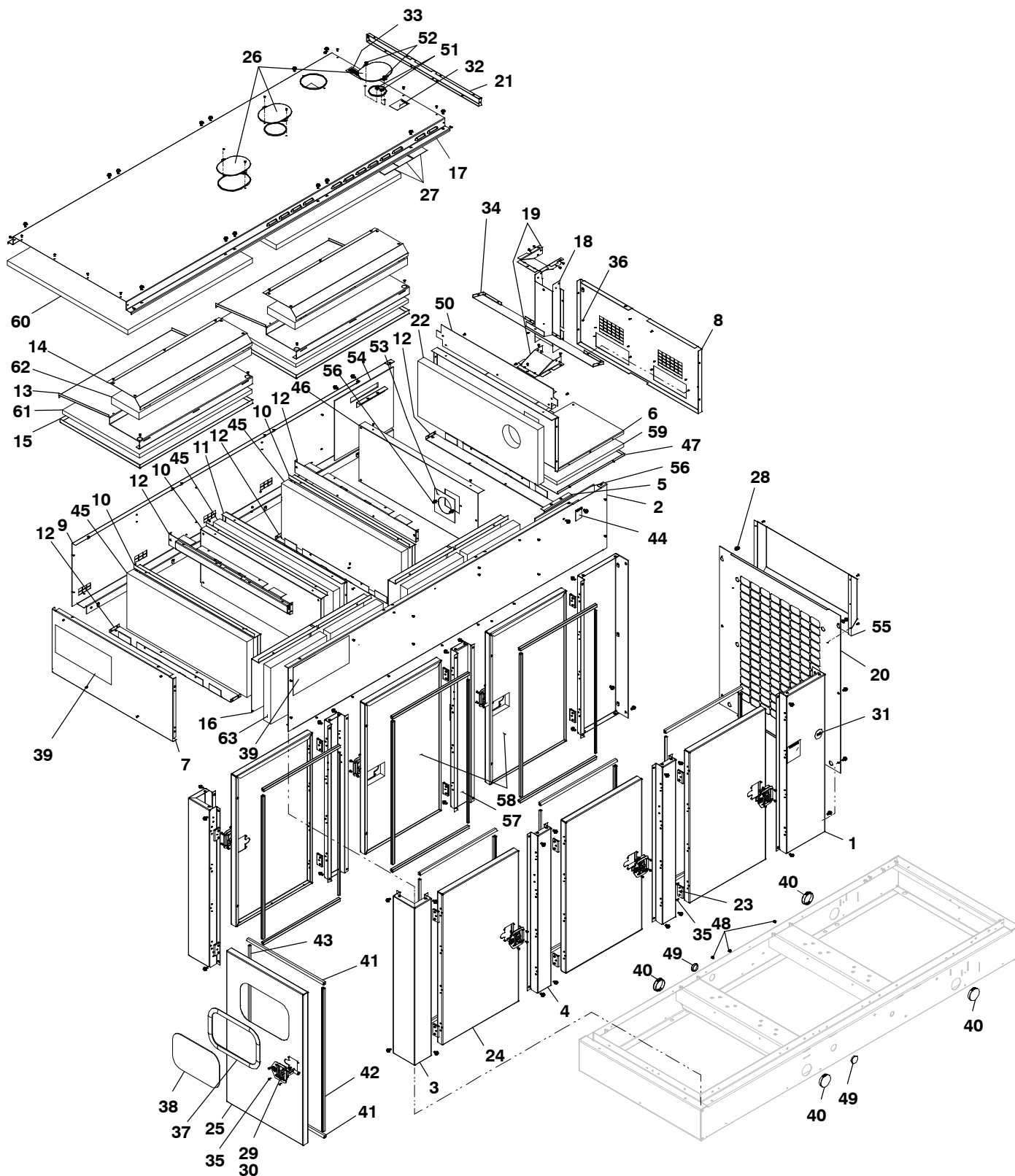
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6357-02	1	Bracket, Coolant Recovery GGHG/GGHH (Begin Spec F)	8	501-0744-11	1	Hose, Coolant
2	130-6033	1	Tank, Coolant	9	503-2079	-	Hose, Oil Resistant - Bulk (Order by the Foot - 6 Feet Required)
3	821-6003-02	5	Screw, Hex Head (M8 x 1.25 x 20)	10	503-0276	-	Hose - Bulk (Order by the Foot - 6 Feet Required)
4	130-3721	1	Cap, Radiator	11	503-1134	1	Screw, Hose Clamp
5	502-0156	1	Elbow, Street - 45°	12	098-8610	1	Label, Information
6	A028Z105	1	Sensor, Level - Coolant	13	A029L465	1	Harness, Wiring
7	503-1137	2	Screw, Hose Clamp				

Overflow Tank GGHJ (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A041C923	1	Bracket, Coolant Recovery GGHJ (Spec A)	9	503-2079	-	Hose, Oil Resistant - Bulk (Order by the Foot - 6 Feet Required)
2	130-6033	1	Tank, Coolant	10	503-0276	-	Hose - Bulk (Order by the Foot - 6 Feet Required)
3	821-6003-02	5	Screw, Hex Head (M8 x 1.25 x 20)	11	503-1134	1	Screw, Hose Clamp
4	130-3721	1	Cap, Radiator	12	098-8610	1	Label, Information
5	502-0156	1	Elbow, Street - 45°	13	898-1388	1	Sleeve, Fiberglass
6	A028Z105	1	Sensor, Level - Coolant	14	A029L465	1	Harness, Wiring
7	503-1137	2	Screw, Hose Clamp	15	821-6007-02	1	Screw, Hex Head
8	501-0744-11	1	Hose, Coolant				

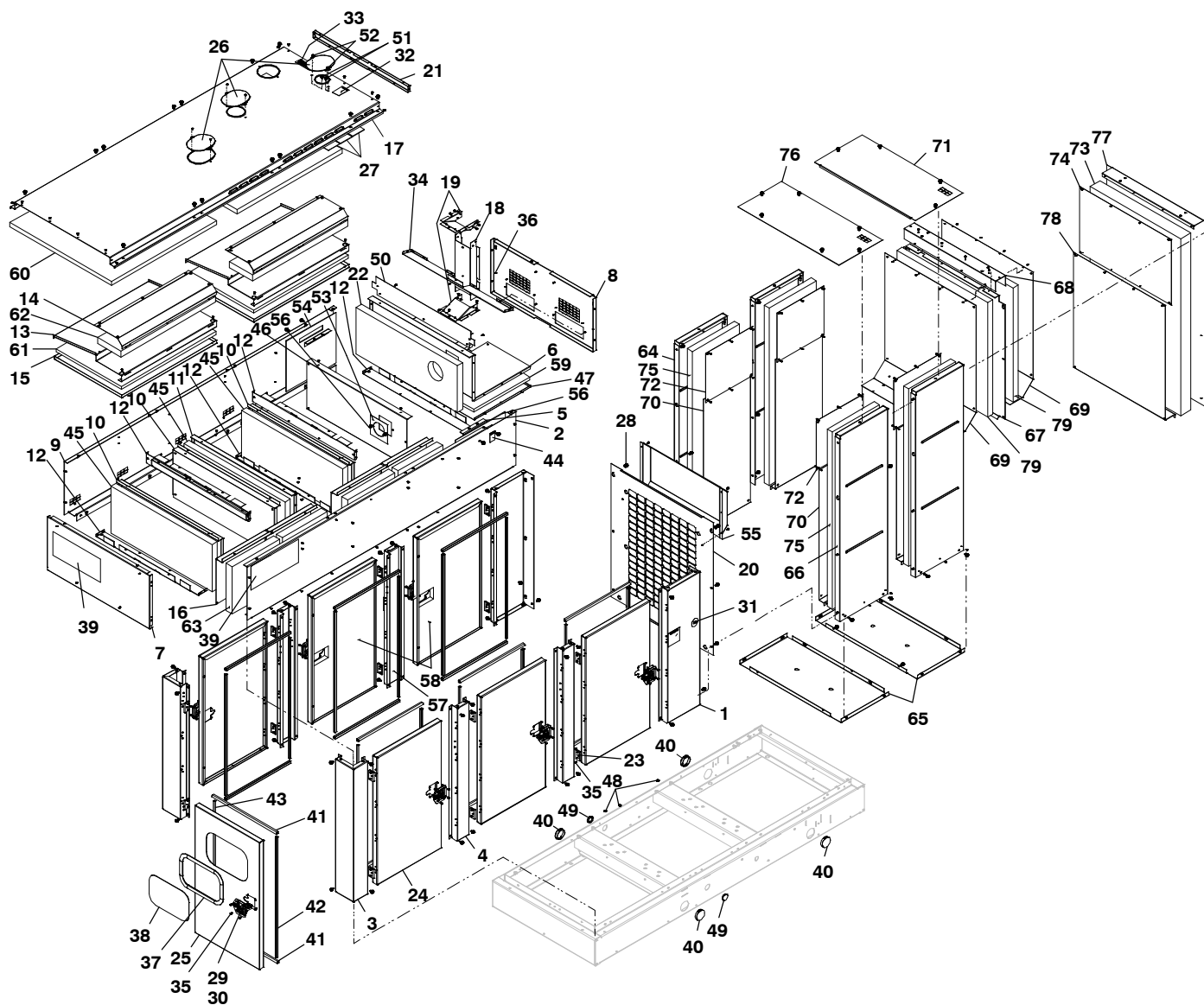
F172 Enclosure GGHG/GGHH (Spec E)



**F172 Enclosure
GGHG/GGHH (Spec E)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-5908	2	Panel, Side – Radiator Housing	31	098-4500	2	Label, Prototype
2	405-5951	1	Extension, Side – Left Hand	32	098-4730	1	Label, Warning
3	405-5916	2	Post, Corner	33	098-5429	1	Label, Coolant Fill
4	405-5744	4	Post, Housing – Center	34	405-5959	1	Baffle, Recirculation
5	405-5998	2	Support, Muffler	35	818-0231-02	164	Rivet, Pop (3/16")
6	405-5966	1	Box, Muffler	36	818-0237-01	39	Rivet, Pop (1/8")
7	405-5953	1	Panel, End – Roof	37	895-0363	–	Weatherstrip – Bulk (Order by the foot – 5 Feet Required) – Units With Window
8	405-5952	1	Panel, End – Roof				
9	405-5950	1	Extension, Side – Right Hand				
10	405-8307	3	Retainer, Insulation	38	319-2653	1	Window, Control
11	405-5956	1	Support, Center	39	098-7902-05	3	Label, Logo (White)
12	405-5957	5	Angle	40	517-0322	4	Plug, Hole
13	405-5954	2	Baffle, Air	41	895-0384	14	Seal, Weather
14	405-8305	2	Retainer, Insulation	42	895-0385	7	Seal, Weather
15	405-8304	2	Retainer, Insulation	43	895-0386	7	Seal, Weather
16	405-8311	2	Retainer, Insulation	44	098-7451	2	Label, Caution
17	405-5926	1	Roof	45	405-5841	3	Fiberglass
18	405-5963	1	Tube, Fill – Radiator	46	405-8312	1	Retainer, Insulation
19	405-6003	2	Box, Radiator Fill	47	405-8306	1	Retainer, Insulation
20	405-5909	1	Panel, Front – Radiator Housing	48	517-0131	3	Plug, Hole (.375")
				49	517-0138-07	2	Plug, Hole (1.75")
21	405-5917	2	Panel, End – Roof	50	405-6002	1	Air Dam
22	405-6109	1	Fiberglass	51	870-0504	2	Nut, Captive Floating (M6 x 1.0)
23	406-0831	14	Hinge, Housing	52	821-6006-01	2	Screw, Hex Head – Stainless Steel (M6 x 1 x 16)
24			Door, Housing				
	405-5902	7	Without Window	53	405-5986	1	Cover, Exhaust – Inlet
	405-5902	6	With Window	54	526-0011	2	Washer, Flat
25	405-5903	1	Door, Housing – With Window	55	405-5962	1	Baffle, Air – Discharge
26	155-3238	3	Cover, Exhaust	56	128-0252	2	Insulation, Foam
27	130-4848	–	Insulation, Exhaust – Bulk (Order by the Foot – 10 Feet Required)	57	405-6001-02	2	Fiberglass
				58	405-5734	4	Insulation, Door
28	526-0451	4	Washer, Flat – Stainless Steel	59	405-6005	1	Fiberglass
29	406-0972-01	7	Latch, Door	60	405-6001-01	2	Fiberglass
30	406-0782	7	Key, Replacement – Fits 406-0972-01 Latch	61	405-6000-03	2	Fiberglass
				62	405-6000-02	2	Fiberglass
				63	405-5997	2	Fiberglass

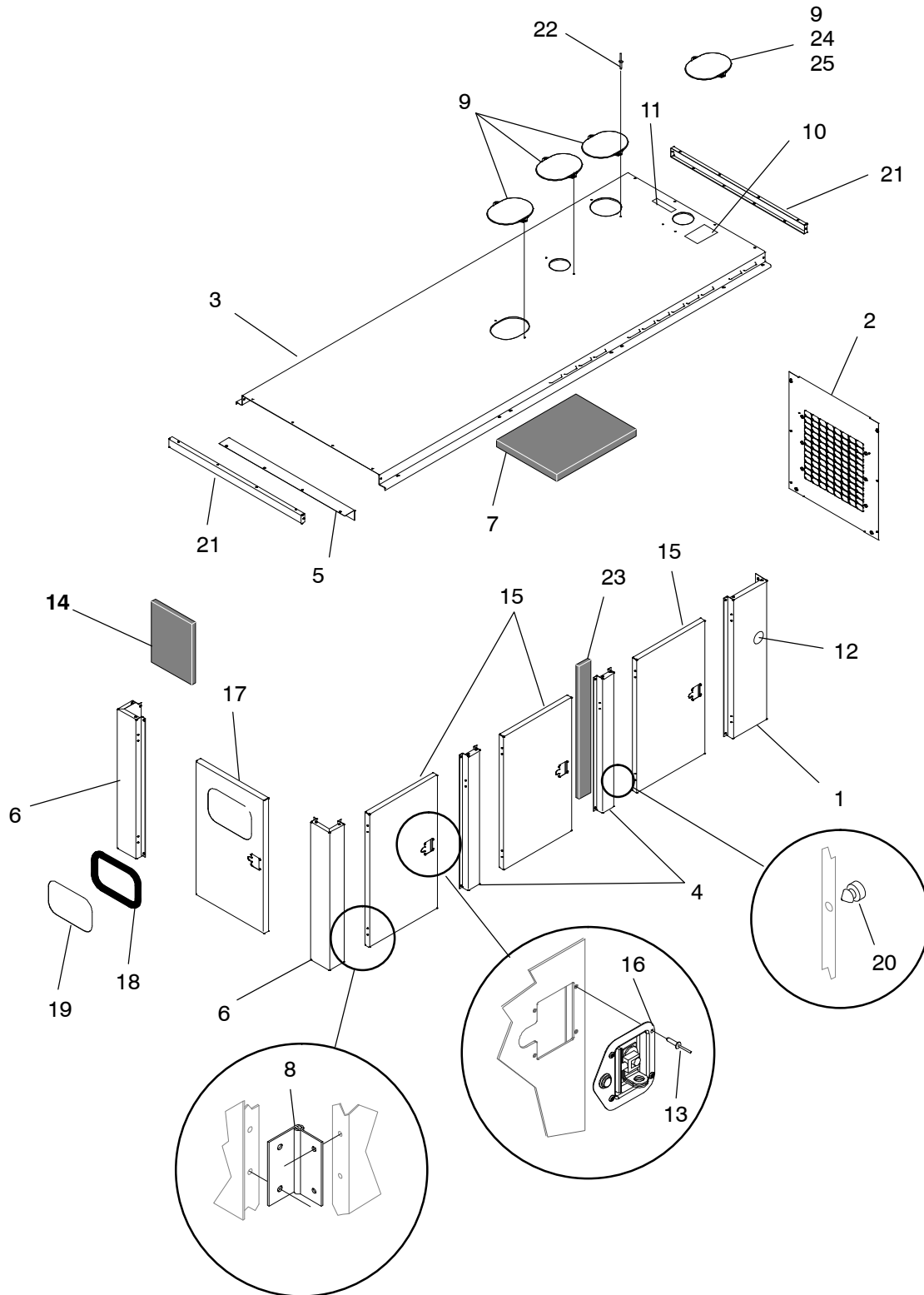
F173 Enclosure GGHG/GGHH (Spec E)



**F173 Enclosure
GGHG/GGHH (Spec E)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-5908	2	Panel, Side – Radiator Housing	38	319-2653	1	Window, Control
2	405-5951	1	Extension, Side – Left Hand	39	098-7902-05	3	Label, Logo (White)
3	405-5916	2	Post, Corner	40	517-0322	4	Plug, Hole
4	405-5744	4	Post, Housing – Center	41	895-0384	14	Seal, Weather
5	405-5998	2	Support, Muffler	42	895-0385	7	Seal, Weather
6	405-5966	1	Box, Muffler	43	895-0386	7	Seal, Weather
7	405-5953	1	Panel, End – Roof	44	098-7451	2	Label, Caution
8	405-5952	1	Panel, End – Roof	45	405-5841	3	Fiberglass
9	405-5950	1	Extension, Side – Right Hand	46	405-8312	1	Retainer, Insulation
10	405-8307	3	Retainer, Insulation	47	405-8306	1	Retainer, Insulation
11	405-5956	1	Support, Center	48	517-0131	3	Plug, Hole (.375")
12	405-5957	5	Angle	49	517-0138-07	2	Plug, Hole (1.75")
13	405-5954	2	Baffle, Air	50	405-6002	1	Air Dam
14	405-8305	2	Retainer, Insulation	51	870-0504	2	Nut, Captive Floating (M6 x 1.0)
15	405-8304	2	Retainer, Insulation	52	821-6006-01	2	Screw, Hex Head – Stainless Steel (M6 x 1 x 16)
16	405-8311	2	Retainer, Insulation				
17	405-5926	1	Roof	53	405-5986	1	Cover, Exhaust – Inlet
18	405-5963	1	Tube, Fill – Radiator	54	526-0011	2	Washer, Flat
19	405-6003	2	Box, Radiator Fill	55	405-5962	1	Baffle, Air – Discharge
20	405-5909	1	Panel, Front – Radiator Housing	56	128-0252	2	Insulation, Foam
21	405-5917	2	Panel, End – Roof	57	405-6001-02	2	Fiberglass
22	405-6109	1	Fiberglass	58	405-5734	4	Insulation, Door
23	406-0831	14	Hinge, Housing	59	405-6005	1	Fiberglass
24			Door, Housing	60	405-6001-01	2	Fiberglass
	405-5902	7	Without Window	61	405-6000-03	2	Fiberglass
	405-5902	6	With Window	62	405-6000-02	2	Fiberglass
25	405-5903	1	Door, Housing – With Window	63	405-5997	2	Fiberglass
26	155-3238	3	Cover, Exhaust	64	405-5991-01	2	Panel, Side – Discharge (Right Hand)
27	130-4848	–	Insulation, Exhaust – Bulk (Order by the Foot – 10 Feet Required)	65	405-8731-02	2	Panel, Bottom
28	526-0451	4	Washer, Flat – Stainless Steel	66	405-5991-02	2	Panel, Side – Discharge (Left Hand)
29	406-0972-01	7	Latch, Door	67	405-5992	1	Panel, Center
30	406-0782	7	Key, Replacement – Fits 406-0972-01 Latch	68	405-5993	1	Cover, Duct
31	098-4500	2	Label, Prototype	69	405-8308	2	Retainer, Insulation
32	098-4730	1	Label, Warning	70	405-8310	4	Retainer, Insulation
33	098-5429	1	Label, Coolant Fill	71	405-6010	1	Cover, Air Discharge Box (Top)
34	405-5959	1	Baffle, Recirculation	72	405-8313	4	Retainer, Insulation
35	818-0231-02	162	Rivet, Pop (3/16")	73	405-6000-07	1	Fiberglass
36	818-0237-01	105	Rivet, Pop (1/8")	74	405-8314	1	Retainer, Insulation
37	895-0363	–	Weatherstrip – Bulk (Order by the foot – 5 Feet Required) – Units With Window	75	405-6000-04	4	Fiberglass
				76	405-5989	1	Cover, Air Discharge Box (Top)
				77	405-5990	1	Cover, Air Discharge
				78	405-8309	1	Retainer, Insulation
				79	405-6000-01	2	Fiberglass

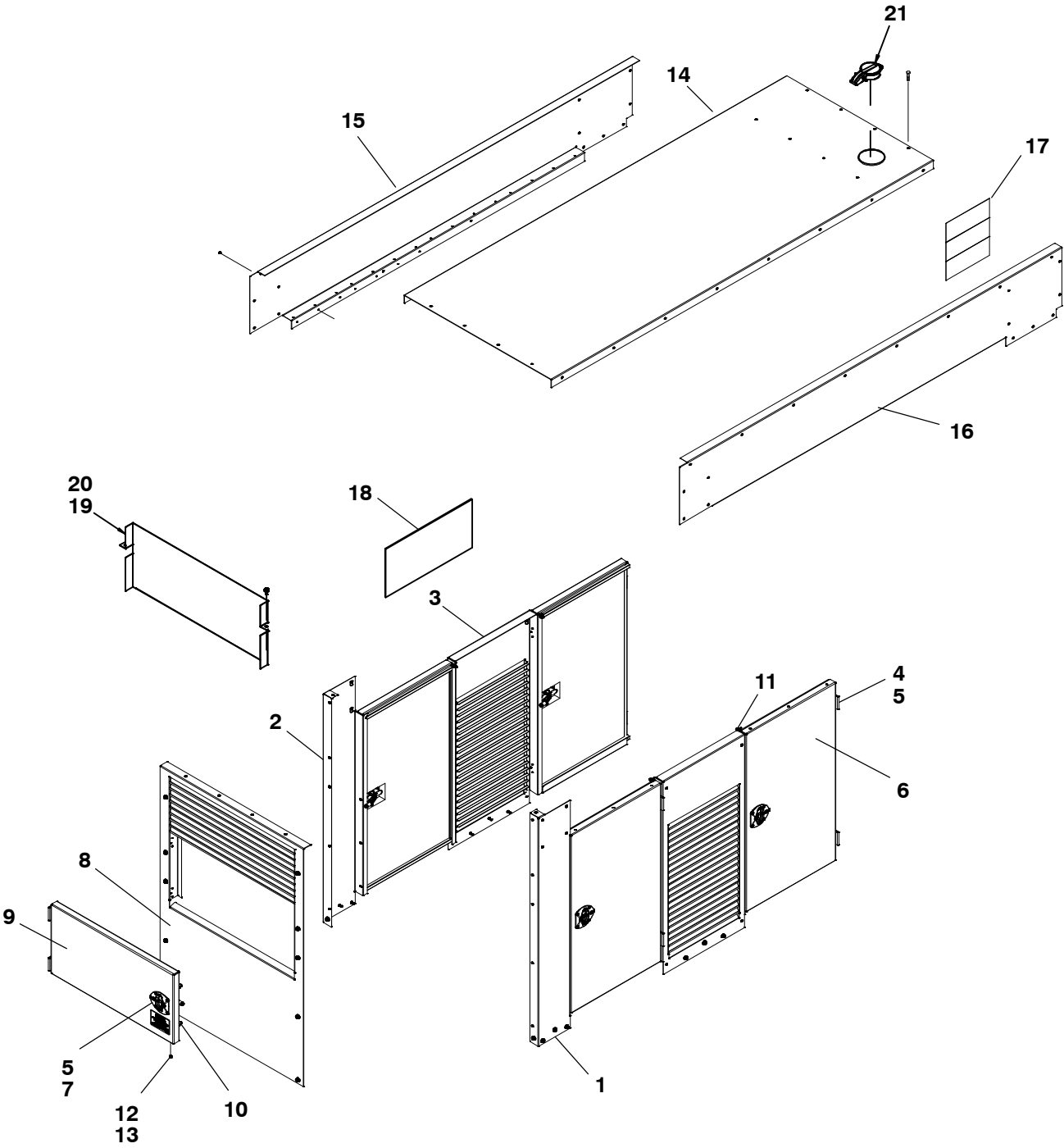
F182 Enclosure GGHG/GGHH (Spec E)



**F182 Enclosure
GGHG/GGHH (Spec E)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-5908	2	Panel, Side – Radiator Housing	16	406-0972-01	7	Latch, Door
2	405-5909	1	Panel, Front – Radiator Housing		406-0782	7	Key, Replacement (fits Latch 406-0972-01)
3	405-5926	1	Roof	17			Door, Housing
4	405-5744	4	Post, Housing – Center		405-5903	1	Sets With Control Window
5	405-5915	1	Angle, Roof		405-5902	1	Sets W/O Control Window
6	405-5916	2	Post, Corner – Housing	18	895-0363	–	Weatherstrip – Window – Bulk (Order By The Foot – 5 Feet Required)
7	130-4848	–	Insulation, Foam – Bulk (Order by the Foot – 10 Feet Required)	19	319-2653	1	Window, Control (If Equipped)
8	406-0831	14	Hinge, Door	20	895-0382	14	Bumper, Door
9	155-3238	3	Cover, Exhaust	21	405-5917	2	Panel, End – Roof
10	098-4730	1	Label, Warning	22	818-0237-01	6	Rivet, Pop (1/8)
11	098-5429	1	Label, Coolant Fill	23	128-0154-01	1	Insulation, Foam
12	098-4500	2	Label, Prototype Tested	24	870-0504	2	Nut, Captive Floating (M6 x 1.0)
13	818-0231-02	98	Rivet, Pop (3/16)	25	821-6006-01	2	Screw, Hex Head (M6 x 1.0 x 16)
14	130-4848-01	–	Insulation, Foam – Bulk (Order by the Foot – 3 Feet Required)				
15	405-5832	6	Door, Housing				

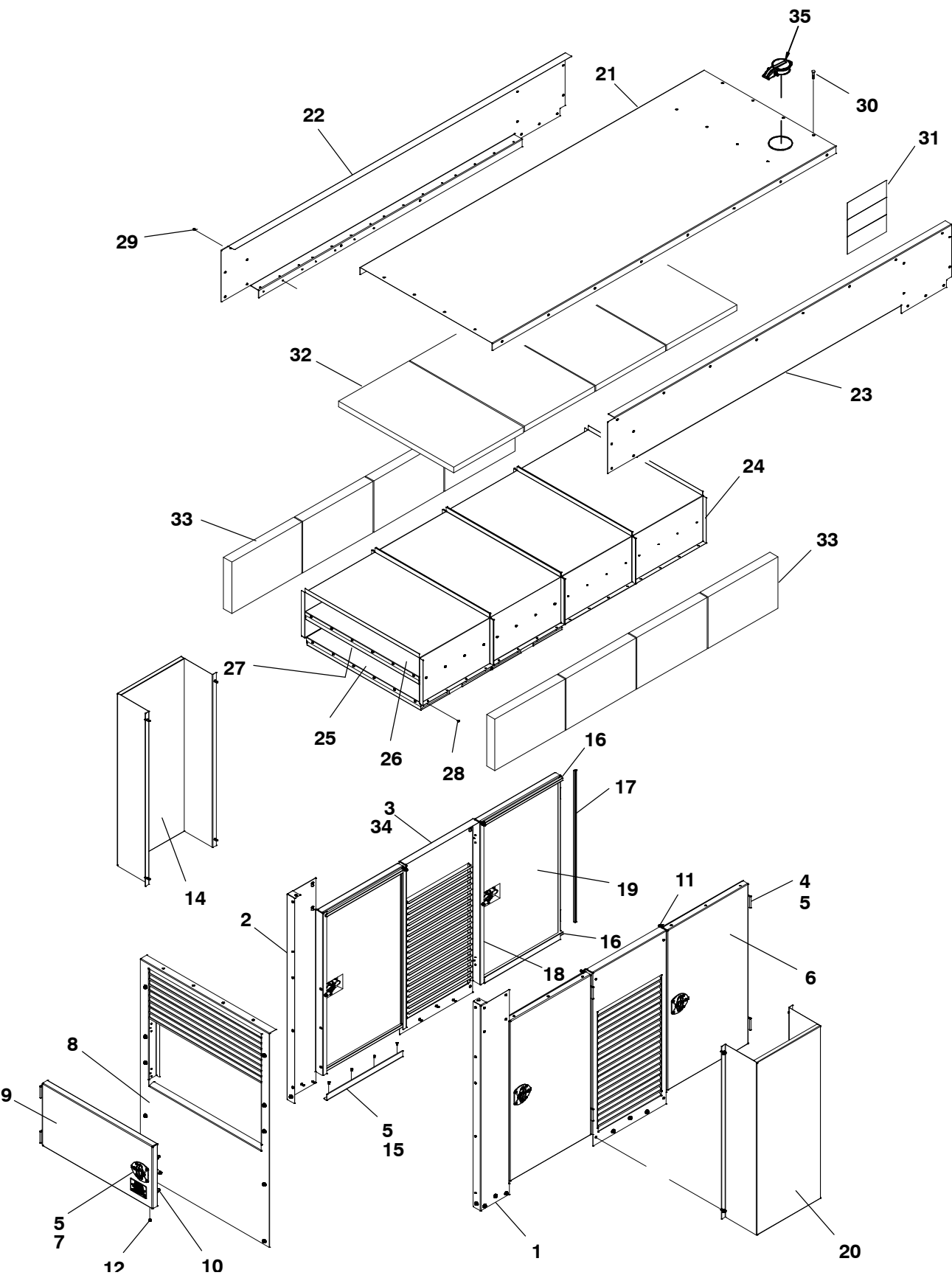
Weather Enclosure **GGHG/GGHH (Begin Spec F)** **GGHJ (Spec A)**



**Weather Enclosure
GGHG/GGHH (Begin Spec F)
GGHJ (Spec A)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Post, Enclosure		405-9583-02	1	Aluminum Housing
	405-7927-02	1	Steel Housing	10	895-0382	10	Bumper, Door
	405-9587-03	1	Aluminum Housing	11	870-2065-03	4	Nut, Hex - Flange
2			Post, Enclosure	12	815-0389	1	Screw, Hex Washer Head (1/4-20 x .375)
	405-7928-02	1	Steel Housing	13	870-0439	1	Nut, Acorn (1/4-28)
	405-9588-03	1	Aluminum Housing	14			Roof, Enclosure
3			Grill, Enclosure		405-8447-02	1	Steel Housing
	405-7942-02	2	Steel Housing		405-9598-02	1	Aluminum Housing
	405-9591-03	2	Aluminum Housing	15			Panel, Roof
4	406-0831	10	Hinge, Housing		405-8420-02	1	Steel Housing
5	818-0231-02	80	Rivet, Pop		405-9595-03	1	Aluminum Housing
6			Door, Housing	16			Panel, Roof
	405-5902	4	Steel Housing		405-8419-02	1	Steel Housing
	405-9582-02	4	Aluminum Housing		405-9594-03	1	Aluminum Housing
7	406-0972-01	5	Latch	17	130-4848	6	Insulation, Exhaust (6 x 12)
8			Grill, Enclosure	18	A044P065	1	Insulation
	405-8423-02	1	Steel Housing	19	A044C216	1	Retainer, Insulation
	405-9596-03	1	Aluminum Housing	20	0821-6003-02	2	Screw, Hex Head
9			Door, Control	21	0155-2062-60	1	Cap, Rain
	405-7792-02	1	Steel Housing				

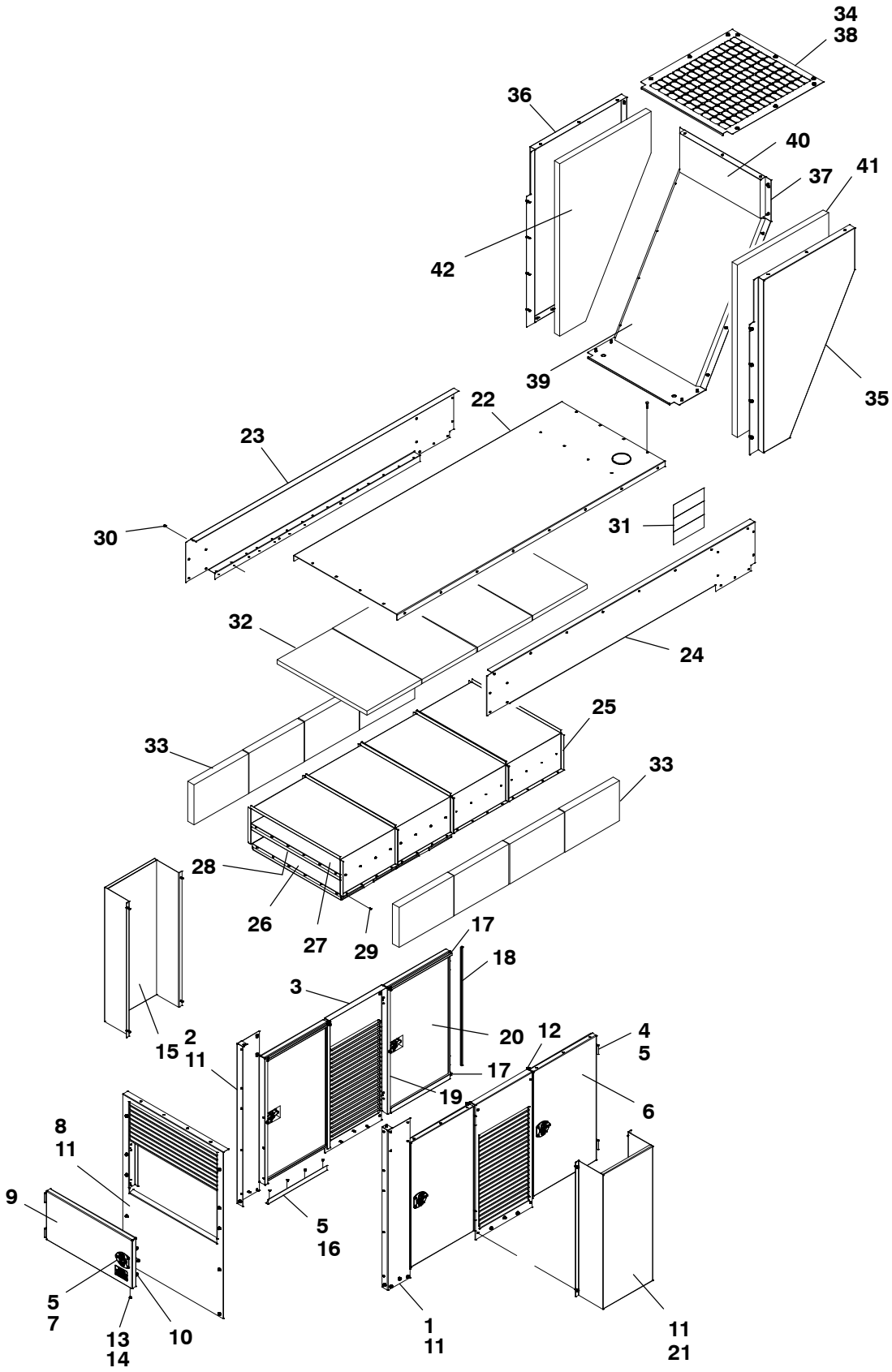
Sound Enclosure Stage I
GGHG/GGHH (Begin Spec F)
GGHJ (Spec A)



Sound Enclosure Stage I
GGHG/GGHH (Begin Spec F)
GGHJ (Spec A)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7927-02	1	Post, Enclosure	19	405-5734	4	Insulation, Door
2	405-7928-02	1	Post, Enclosure	20	405-8203-02	2	Baffle, Air
3	405-7942-02	2	Grill, Enclosure	21	405-8447-02	1	Roof, Enclosure
4	406-0831	10	Hinge, Housing	22	405-8420-02	1	Panel, Roof
5	818-0231-02	96	Rivet, Pop	23	405-8419-02	1	Panel, Roof
6	405-5902	4	Door, Housing	24	405-8618	4	Retainer, Insulation
7	406-0972-01	5	Latch	25	405-7986	4	Panel, Duct
8	405-8423-02	1	Grill, Enclosure	26	405-7987	4	Panel, Duct
9	405-7792-02	1	Door, Control	27	405-7990-01	4	Insulation, Duct
10	895-0382	2	Bumper, Door	28	818-0231-01	48	Rivet, Pop
11	870-2065-03	4	Nut, Hex - Flange	29	818-0231-02	14	Rivet, Pop
12	815-0389	1	Screw, Hex Washer Head (1/4-20 x .375)	30	821-6007-02	16	Screw, Hex Head (M8 x 1.25 x 20)
13	870-0439	1	Nut, Acorn (1/4-28)	31	130-4848	6	Insulation, Exhaust (6 x 12)
14	405-8282	2	Insulation, Baffle	32	405-7989-04	4	Insulation, Roof
15	405-7982-03	4	Bracket, Door	33	405-7989-03	8	Insulation, Roof
16	895-0384	8	Weather, Seal	34	A044P065	1	Insulation
17	895-0386	4	Weather, Seal	35	0155-2062-60	1	Cap, Rain
18	895-0385	4	Weather, Seal				

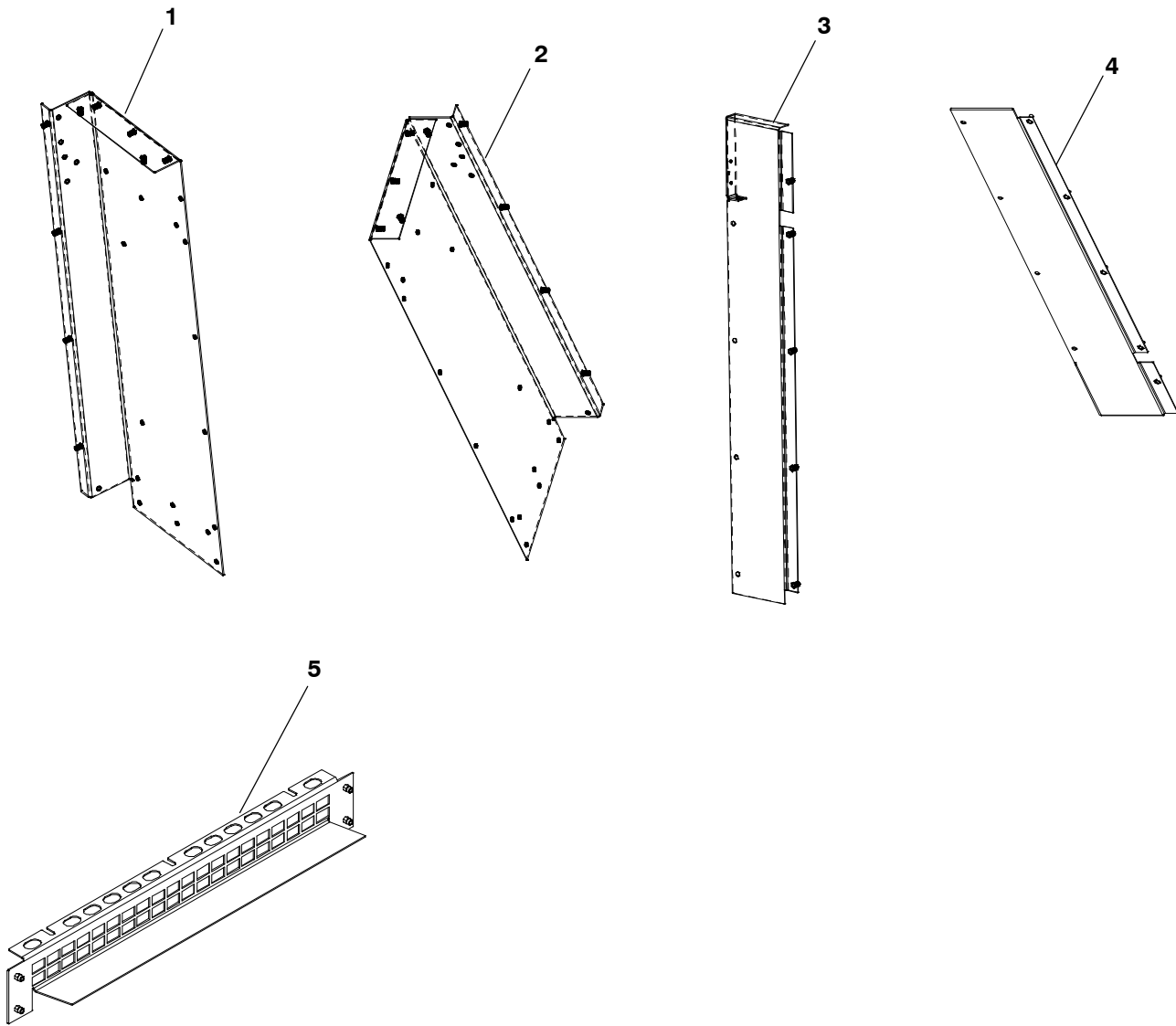
Sound Enclosure Stage II GGHG/GGHH (Begin Spec F) GGHJ (Spec A)



Sound Enclosure Stage II
GGHG/GGHH (Begin Spec F)
GGHJ (Spec A)

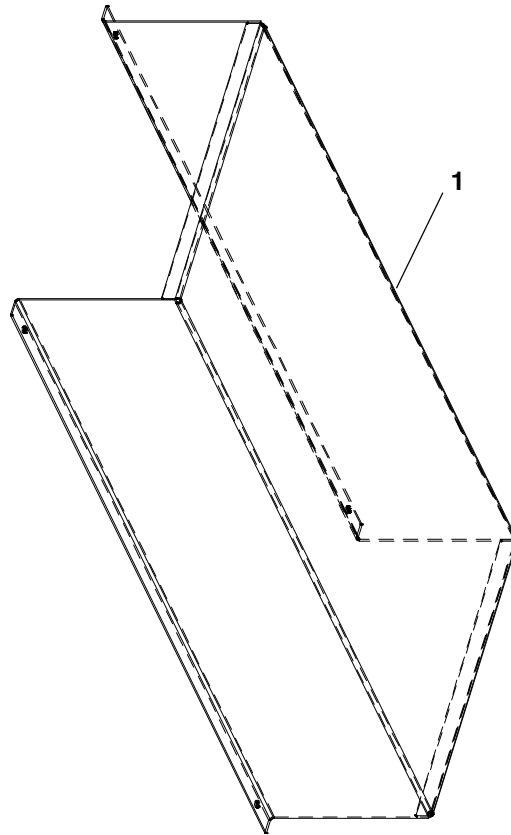
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Post, Enclosure	22			Roof, Enclosure
	405-7927-02	1	Steel Housing		405-8447-02	1	Steel Housing
	405-9587-03	1	Aluminum Housing		405-9598-02	1	Aluminum Housing
2			Post, Enclosure	23			Panel, Roof
	405-7928-02	1	Steel Housing		405-8420-02	1	Steel Housing
	405-9588-03	1	Aluminum Housing		405-9595-03	1	Aluminum Housing
3			Grill, Enclosure	24			Panel, Roof
	405-7942-02	2	Steel Housing		405-8419-02	1	Steel Housing
	405-9591-03	2	Aluminum Housing		405-9594-03	1	Aluminum Housing
4	406-0831	10	Hinge, Housing	25	405-8618	4	Retainer, Insulation
5	818-0231-02	96	Rivet, Pop	26	405-7986	4	Panel, Duct
6			Door, Housing	27	405-7987	4	Panel, Duct
	405-5902	4	Steel Housing	28	405-7990-01	4	Insulation, Duct
	405-9582-02	4	Aluminum Housing	29	818-0231-01	48	Rivet, Pop
7	406-0972-01	5	Latch	30	818-0231-02	14	Rivet, Pop
8			Grill, Enclosure	31	130-4848	6	Insulation, Exhaust (6 x 12)
	405-8423-02	1	Steel Housing	32	405-7989-04	4	Insulation, Roof
	405-9596-03	1	Aluminum Housing	33	405-7989-03	8	Insulation, Roof
9			Door, Control	34			Panel, Duct
	405-7792-02	1	Steel Housing		405-8270-02	1	Steel Housing
	405-9583-02	1	Aluminum Housing		405-9593-02	1	Aluminum Housing
10	895-0382	2	Bumper, Door	35			Panel, Duct
11	821-6007-02	54	Screw, Hex Head (M8 x 1.25 x 20)		405-8546-02	1	Steel Housing
					405-9600-03	1	Aluminum Housing
12	870-2065-03	4	Nut, Hex - Flange	36			Panel, Duct
13	815-0389	1	Screw, Hex Washer Head (1/4-20 x .375)		405-8547-02	1	Steel Housing
					405-9601-03	1	Aluminum Housing
14	870-0439	1	Nut, Acorn (1/4-28)	37			Panel, Duct
15	405-8282	2	Insulation, Baffle		405-8548-02	1	Steel Housing
16	405-7982-03	4	Bracket, Door		405-9602-03	1	Aluminum Housing
17	895-0384	8	Weather, Seal	38	821-6007-02	33	Screw, Hex Head (M8 x 1.25 x 20)
18	895-0386	4	Weather, Seal				
19	895-0385	4	Weather, Seal	39	405-8273-01	1	Insulation, Duct
20	405-5734	4	Insulation, Door	40	405-8273-03	1	Insulation, Duct
21			Baffle, Air	41	405-8718	1	Insulation, Duct - RH
	405-8203-02	2	Steel Housing	42	405-8719	1	Insulation, Duct - LH
	405-9592-02	2	Aluminum Housing				

**Enclosure Kit
(V10T Ford Cooling)
GGHG/GGHH (Begin Spec E)
GGHJ (Spec A)**



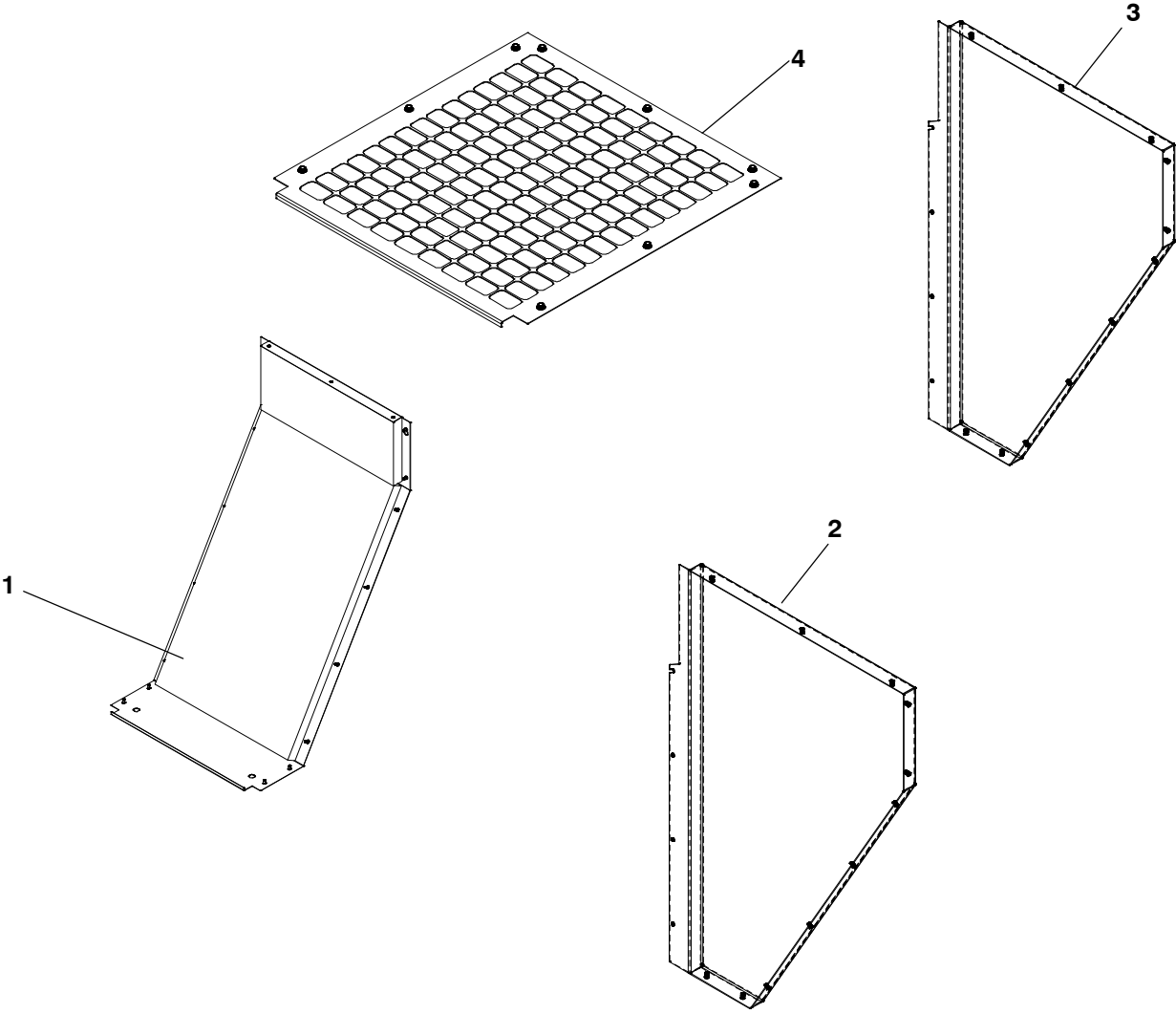
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1409	1	Kit, Enclosure (Includes the Following Parts)		A041F359	1	(GGHJ)(Spec A)
1	130-7052-03	1	Bracket	4	130-7055-03	1	Cover, Shroud (GGHG/GGHH)
2	130-7053-03	1	Bracket				(Begin Spec E)
3		1	Cover, Shroud		A041F361	1	(GGHJ)(Spec A)
	130-7054-03	1	(GGHG/GGHH) (Begin Spec E)	5	405-9585-02	1	Panel, Duct

**Enclosure Kit
(V10T and 8.1L Baffle)
GGHG/GGHH (Begin Spec E)
GGHJ (Spec A)**



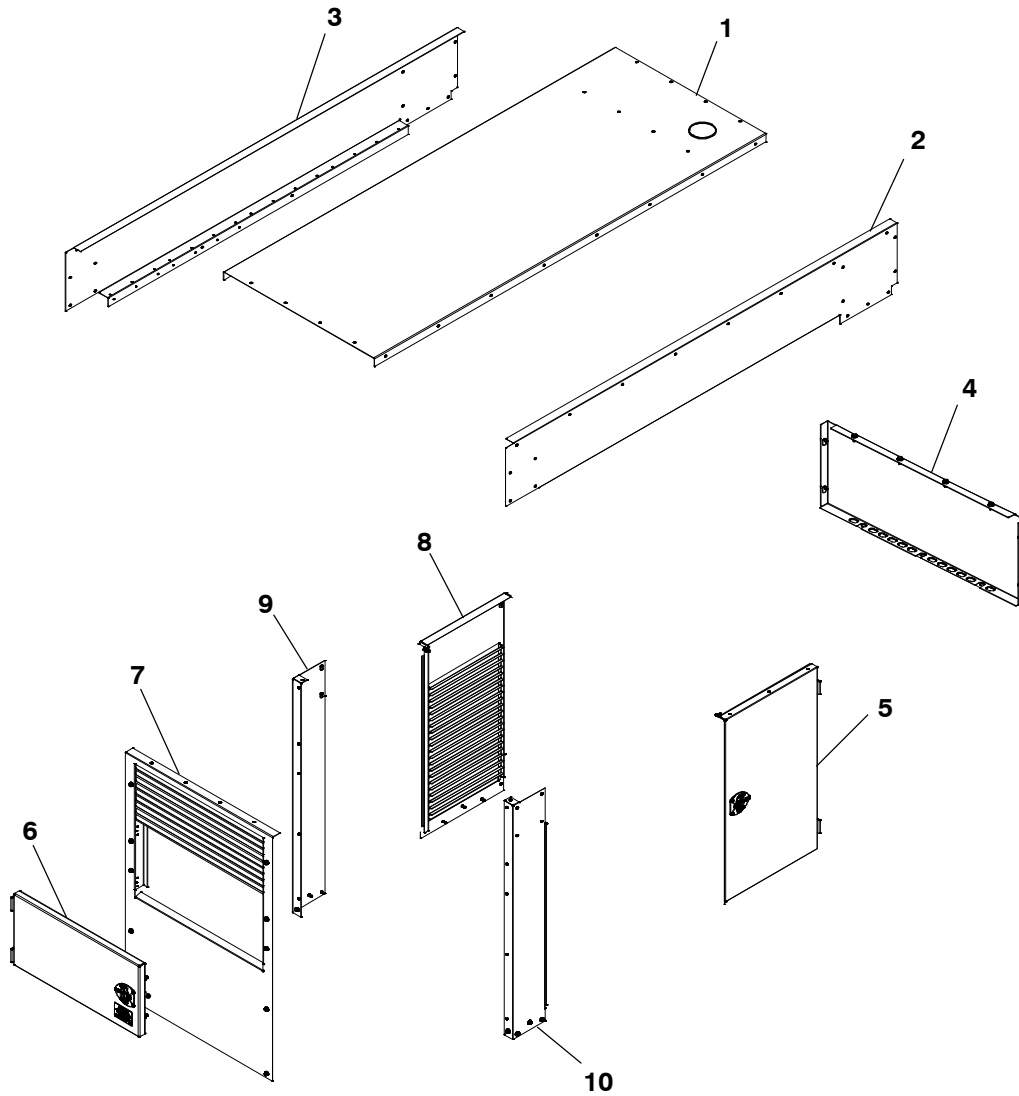
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
541-1413		1	Kit, Enclosure (Includes the Following Parts)	1	405-9592-02	2	Baffle, Air

**Enclosure Kit
(V10T Plus and 8.1L Duct)
GGHG/GGHH (Begin Spec E)
GGHJ (Spec A)**



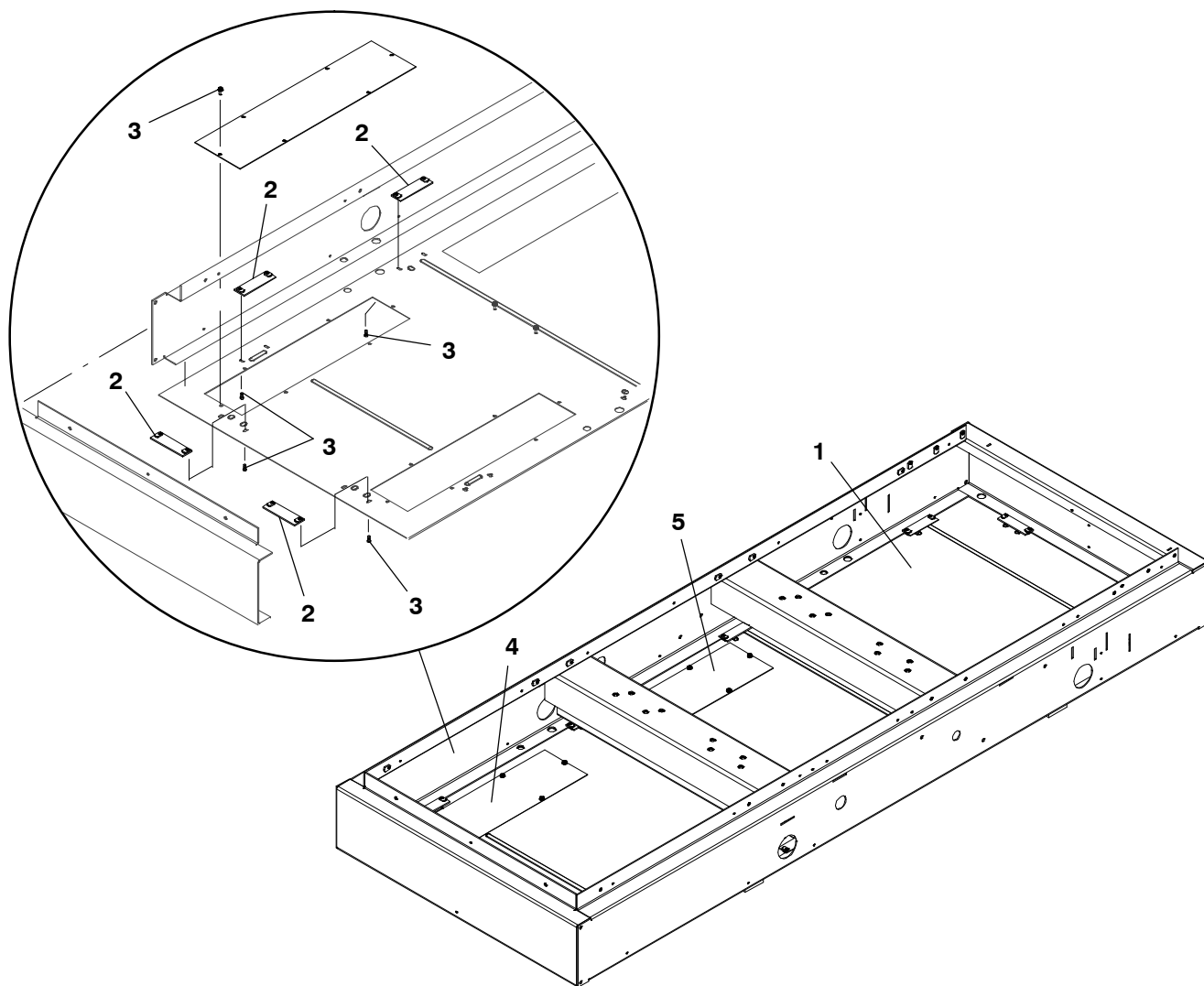
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1412	1	Kit, Enclosure (Includes the Following Parts)	2	405-9601-03	1	Panel, Duct (Left)
1	405-9602-03	1	Panel, Duct (Front)	3	405-9600-03	1	Panel, Duct (Right)
				4	405-9593-02	1	Panel, Duct (Top)

**Enclosure Kit
(V10T Ford Housing)
GGHG/GGHH (Begin Spec E)
GGHJ (Spec A)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1411	1	Kit, Enclosure (Includes the Following Parts)	5	405-9582-02	4	Door, Enclosure
1	405-9598-02	1	Roof, Enclosure	6	405-9583-02	1	Door, Control
2	405-9594-03	1	Panel, Roof - Right	7	405-9596-03	1	Grill, Enclosure
3	405-9595-03	1	Panel, Roof - Left	8	405-9591-03	2	Grill, Enclosure
4	404-0362-03	1	Panel, End Cap	9	405-9587-03	1	Post, Enclosure
				10	405-9588-03	1	Post, Enclosure

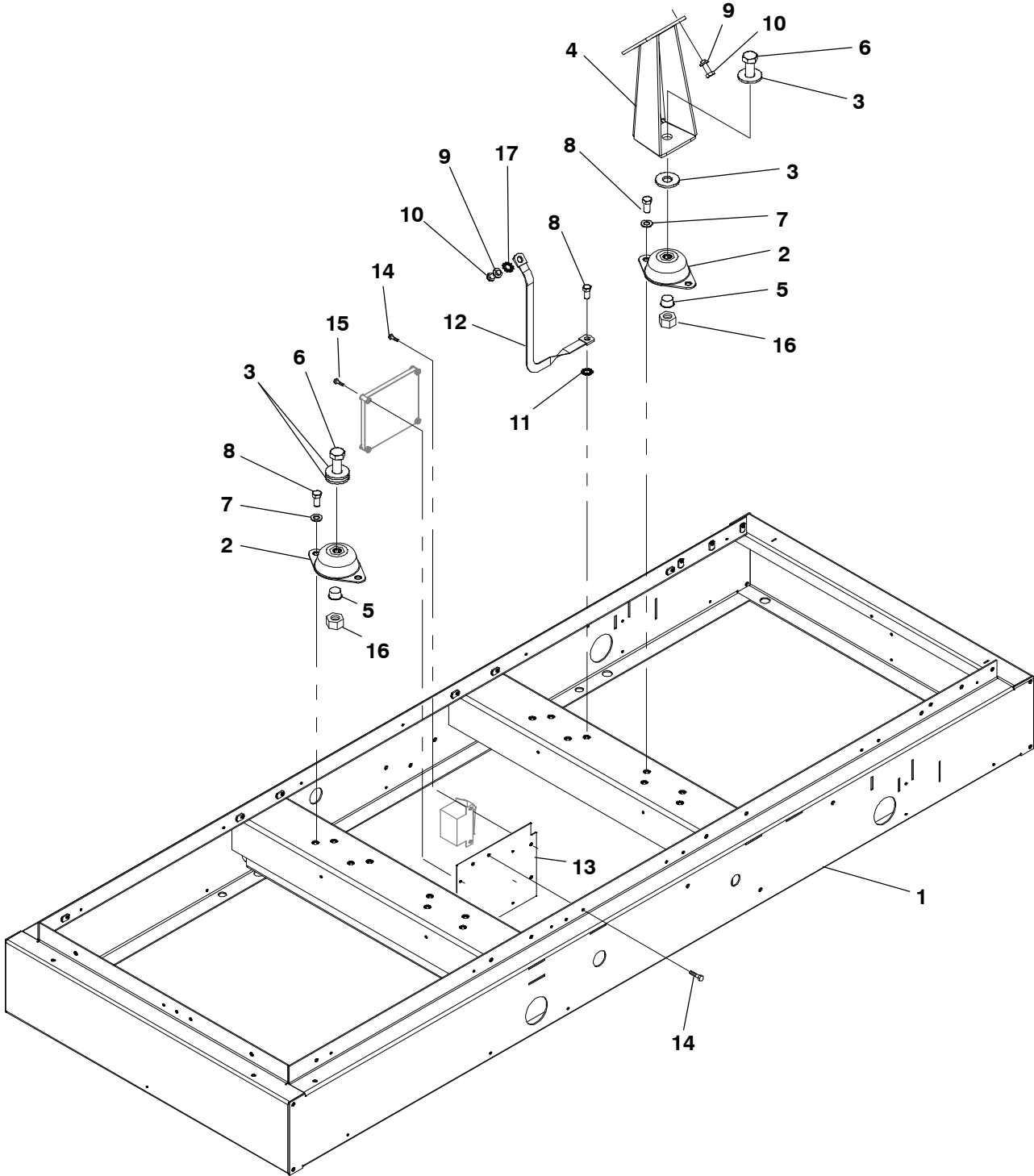
Skid Pan
GGHG/GGHH (Begin Spec E)
GGHJ (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4287		Pan, Skid	4	403-4215	2	Cover, Stub-Up – End (7-5/32" x 28")
2	403-4110	12	Clamp	5	403-4116	1	Cover, Stub-Up – Side (7-5/32" x 21-3/8")
3	821-6002-03	42	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)				

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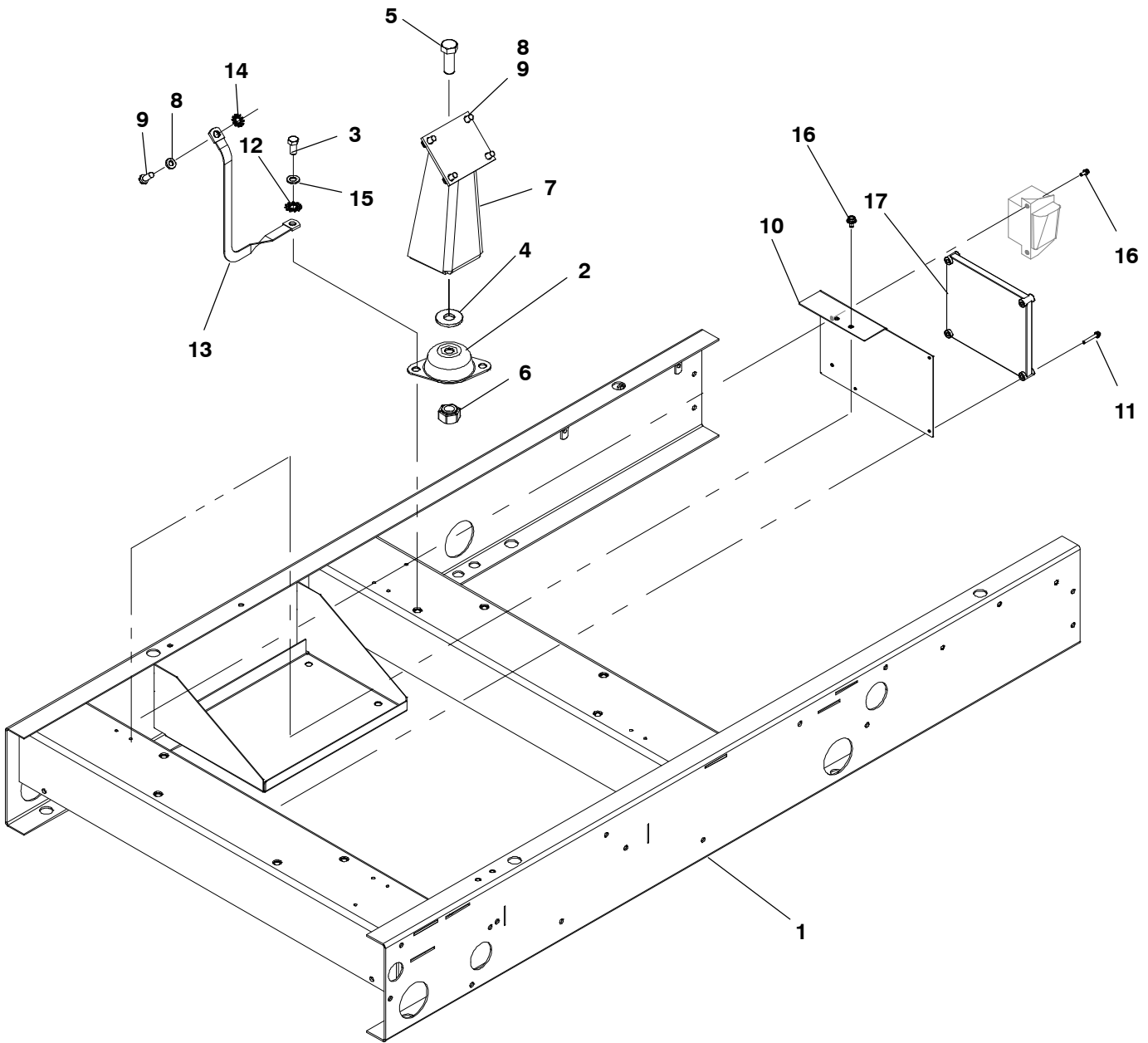
**Skid
GGHG/GGHH (Spec E)**



Skid
GGHG/GGHH (Spec E)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4485-04	1	Skid Assy	11	856-0013	1	Washer, Lock – W/EIT (1/2)
2	402-0779-05	4	Isolator, Vibration	12	337-0090	1	Strap, Electrical
3	526-0238-01	8	Washer, Flat (3/4)	13	403-5150-02	1	Bracket, Ignition Module
4	403-7073-02	2	Bracket, Mounting – Engine	14	821-6006-01	4	Screw, Hex Head (M6 x 1.0 x 16)
5	517-0094	4	Plug, Hole	15	815-0793-08	4	Screw, Hex – Flange Head – Thread Forming (M5 x 0.8 x 35)
6	800-0607	4	Screw, Cap – Hex Head (3/4-10 x 2)	16	862-0044	4	Nut, Hex (3/4-10)
7	526-0433	8	Washer, Hardened	17	856-0010	1	Washer, Lock – W/EIT (3/8)
8	800-2543-02	9	Screw, Cap – Hex Head (M12 x 25)				
9	526-0174	8	Washer, Flat				
10	800-2530-03	8	Screw, Cap – Hex Head (M10 x 1.5 x 25)				

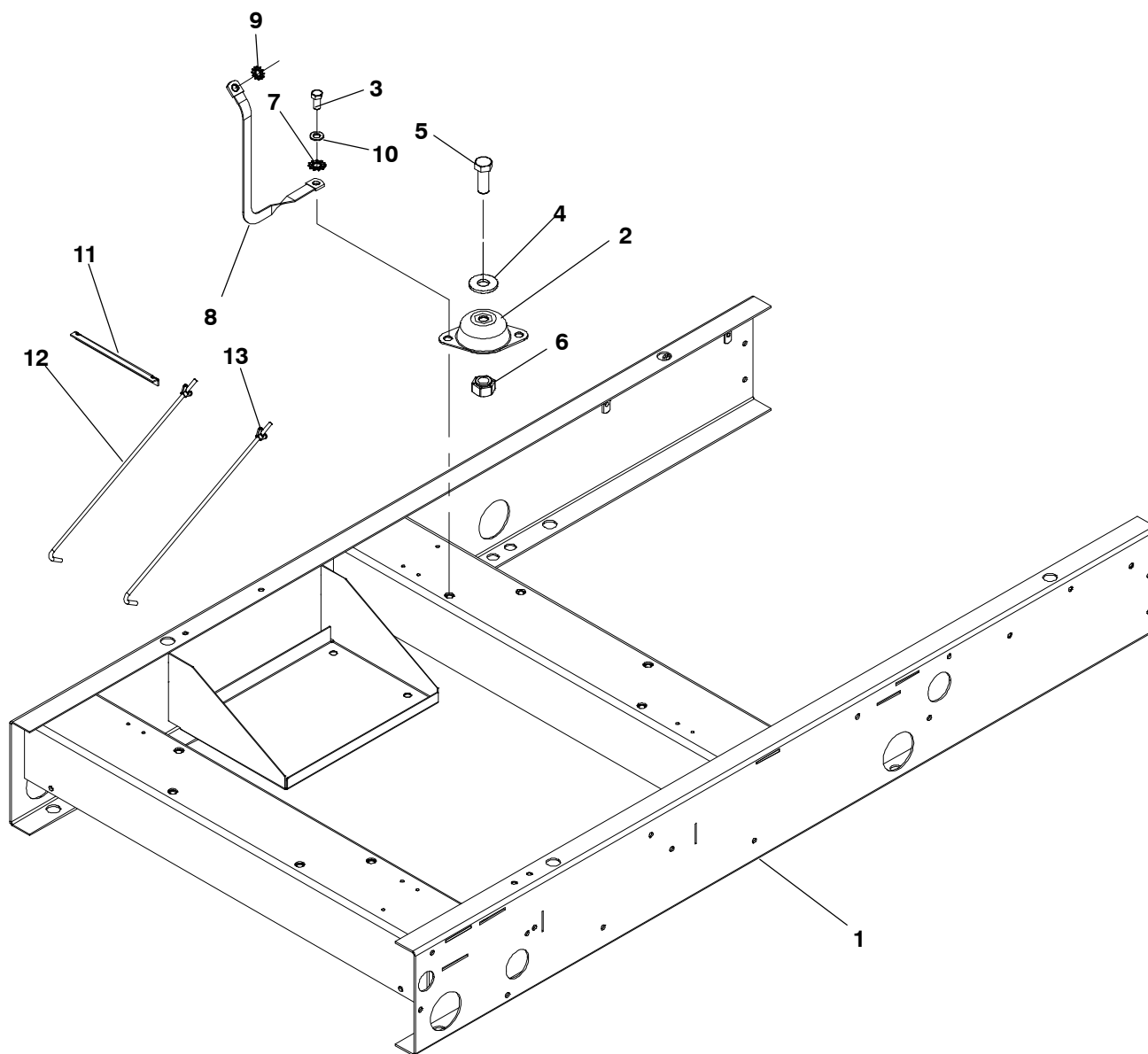
**Skid
Basic
GGHG/GGHH (Spec F-K)**



**Skid
Basic
GGHG/GGHH (Spec F-K)**

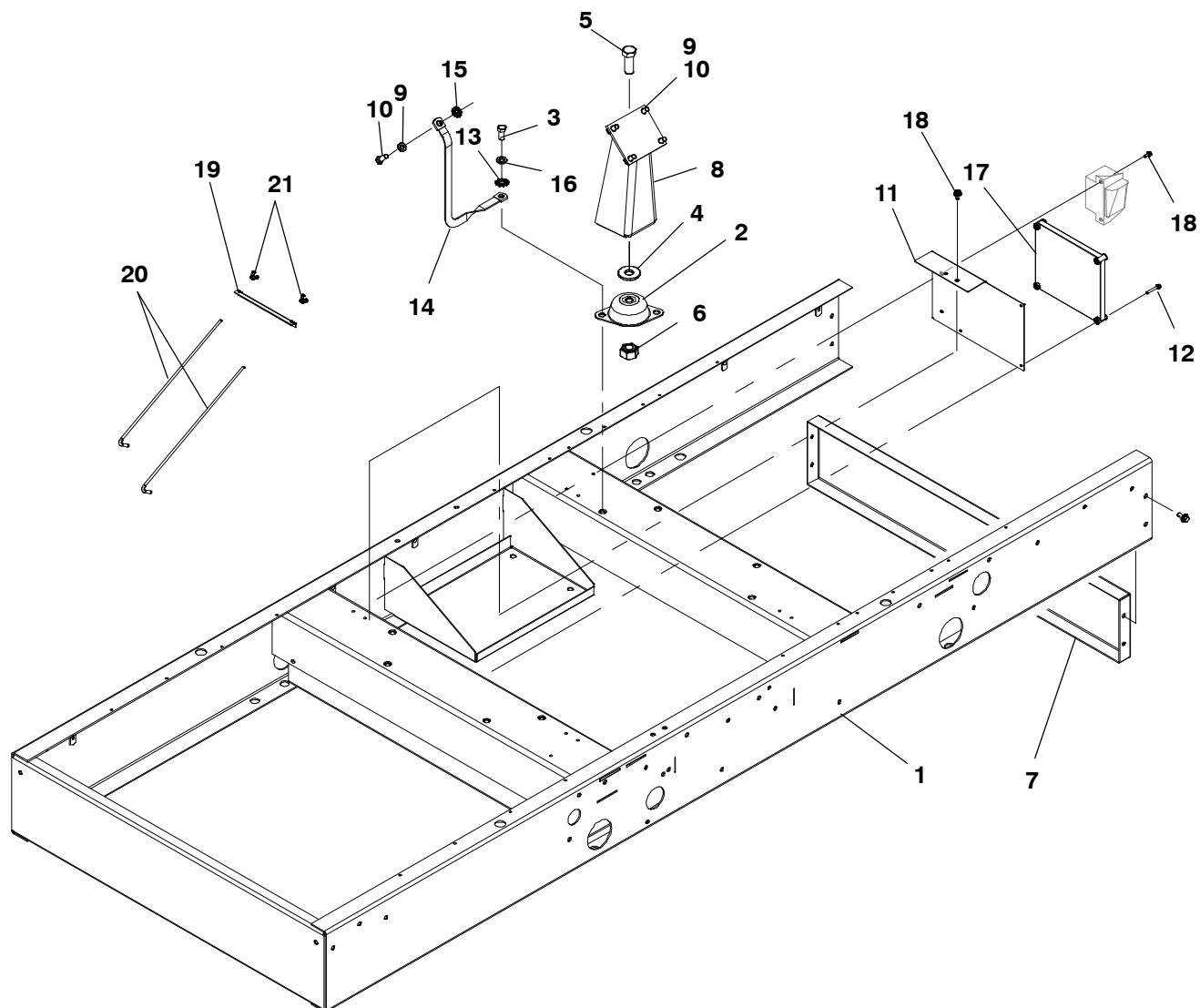
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-5513-02	1	Skid Assy	10	403-6516-02	1	Bracket, Ignition Module
2	402-0779-05	4	Isolator, Vibration	11	815-0793-08	4	Screw, Hex – Flange
3	800-2543-02	8	Screw, Cap – Hex Head (M12)	12	856-0013	1	Washer, Lock – W/EIT (1/2)
4	526-0238-01	4	Washer, Flat	13	337-0090	1	Strap, Electrical
5	800-0607	4	Screw, Cap – Hex Head (3/4-10 x 2)	14	856-0010	1	Washer, Lock – W/EIT (3/8)
6	862-0044	4	Nut, Hex – Heavy (3/4-10)	15	526-0433	8	Washer, Hardened
7	403-7073-02	2	Bracket, Engine – Mounting	16	815-0261	4	Screw, Hex Washer Head (1/4-20 x .5)
8	526-0174	8	Washer, Flat	17	166-0890-02	1	Module, Ignition
9	800-2530-03	8	Screw, Cap – Hex Head (M10 x 1.5 x 25)				

Skid – Basic
GGHG/GGHH (Begin Spec L)
GGHJ (Spec A)



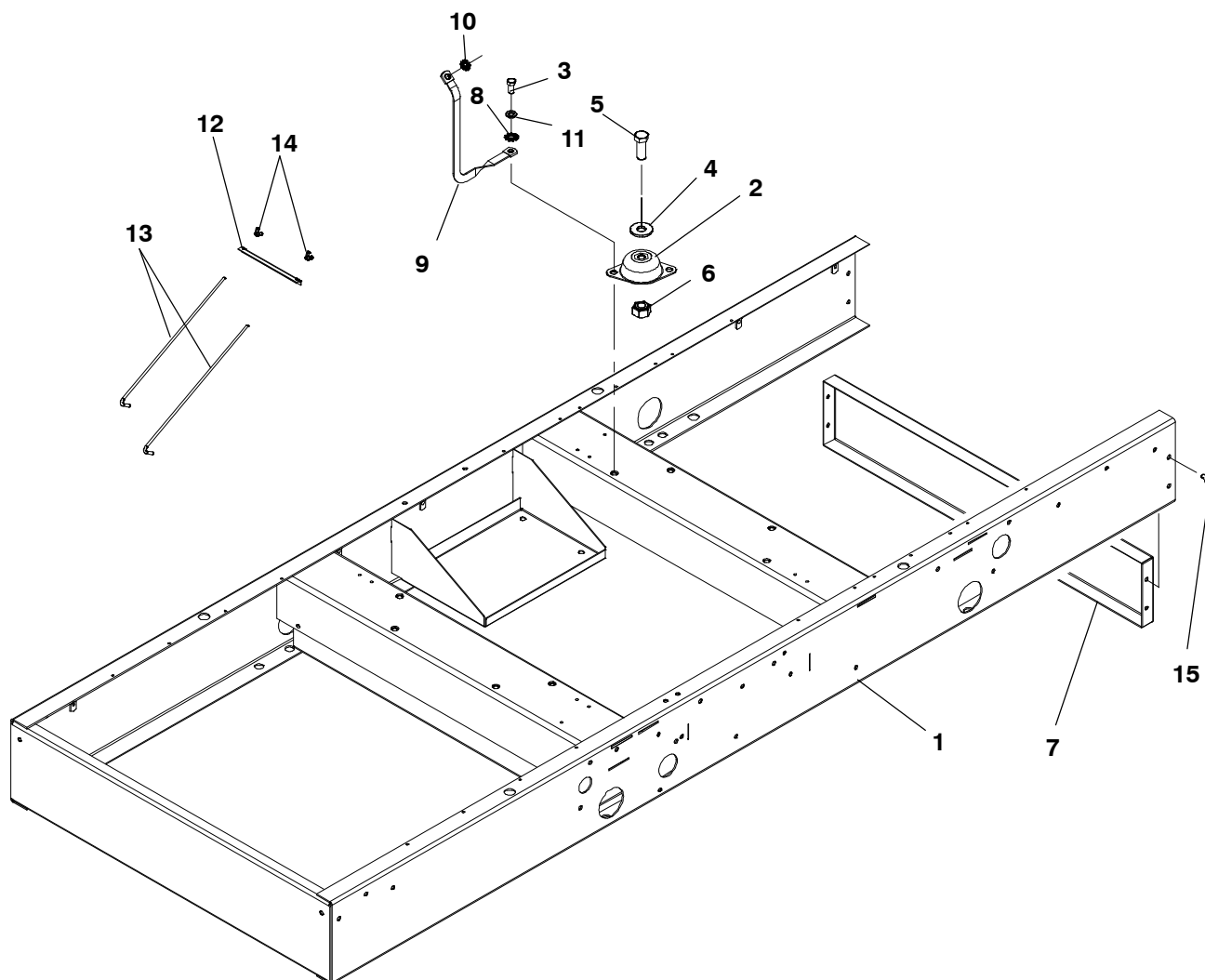
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-5513-02	1	Skid Assy	7	856-0013	1	Washer, Lock – W/EIT (1/2)
2	402-0779-05	4	Isolator, Vibration	8	337-0090	1	Strap, Electrical
3	800-2543-02	8	Screw, Cap – Hex Head (M12)	9	856-0010	1	Washer, Lock – W/EIT (3/8)
4	526-0238-01	4	Washer, Flat	10	A026H354	8	Washer, Lock
5	800-0607	4	Screw, Cap – Hex Head (3/4-10 x 2)	11	416-1103-02	1	Holddown, Battery
6	862-0044	4	Nut, Hex – Heavy (3/4-10)	12	416-0993-02	2	Rod, Battery Retaining
				13	865-0030	2	Nut, Wing

**Skid
Housing Ready
GGHG/GGHH (Spec F-K)**



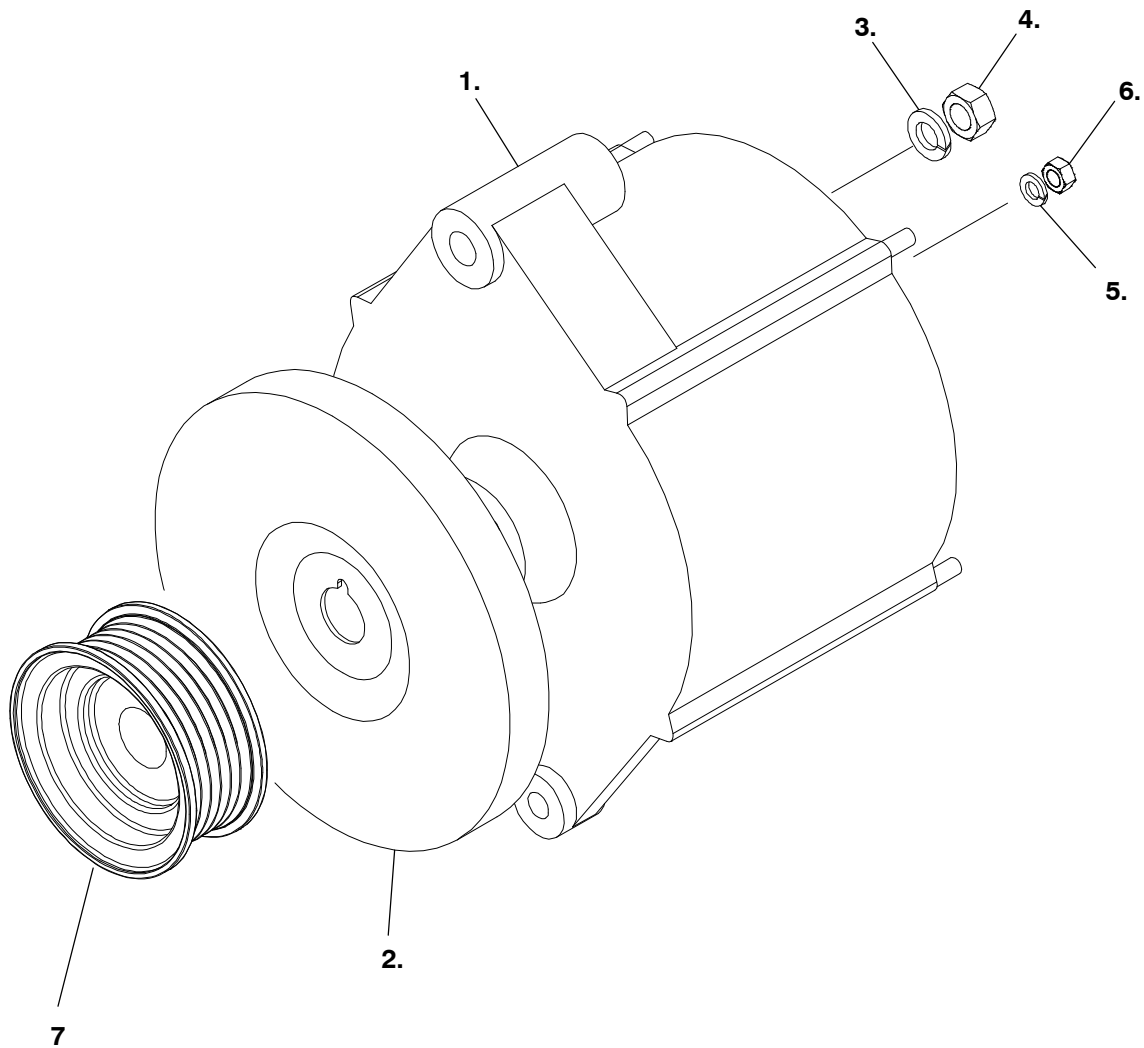
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-5478-02	1	Skid Assy	12	815-0793-08	4	Screw, Hex - Flange
2	402-0779-05	4	Isolator, Vibration	13	856-0013	1	Washer, Lock - W/EIT (1/2)
3	800-2543-02	8	Screw, Cap - Hex Head (M12)	14	337-0090	1	Strap, Electrical
4	526-0238-01	4	Washer, Flat	15	856-0010	1	Washer, Lock - W/EIT (3/8)
5	800-0607	4	Screw, Cap - Hex Head (3/4-10 x 2)	16	526-0433	8	Washer, Hardened
6	862-0044	4	Nut, Hex - Heavy (3/4-10)	17	166-0890-02	1	Module, Ignition (Spec F-K)
7	403-5230-02	1	End, Cap - Skid	18	815-0261	4	Screw, Hex Washer Head - Thread Forming (1/4-20 x .5) (Spec F-K)
8	403-7073-02	2	Bracket, Engine - Mounting	19	416-1103-02	1	Hold Down, Battery
9	526-0174	8	Washer, Flat	20	416-0993-02	2	Rod, Battery Hod Down
10	800-2530-03	8	Screw, Cap - Hex Head (M10 x 1.5 x 25)	21	865-0030	2	Nut, Wing (M6 x 1)
11	403-6516-02	1	Bracket, Ignition Module (Spec F-K)				

Skid – IBC
GGHG/GGHH (Begin Spec L)
GGHJ (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-5478-02	1	Skid Assy	10	856-0010	1	Washer, Lock – W/EIT (3/8)
2	402-0779-05	4	Isolator, Vibration	11	A026H354	8	Washer, Lock
3	800-2543-02	8	Screw, Cap – Hex Head (M12)	12	416-1103-02	1	Hold Down, Battery
4	526-0238-01	4	Washer, Flat	13	416-0993-02	2	Rod, Battery Hod Down
5	800-0607	4	Screw, Cap – Hex Head (3/4-10 x 2)	14	865-0030	2	Nut, Wing (M6 x 1)
6	862-0044	4	Nut, Hex – Heavy (3/4-10)	15	821-6007-02	4	Screw, Hex Head
7	403-5230-02	1	End, Cap – Skid	16	0517-0138-10	4	Plug, Hole (Dia 3 11/64")
8	856-0013	1	Washer, Lock – W/EIT (1/2)	17	A044P664	2	Plug, Hole (Dia 63mm)
9	337-0090	1	Strap, Electrical	18	0517-0350	1	Plug, Hole (Dia 43.6mm)

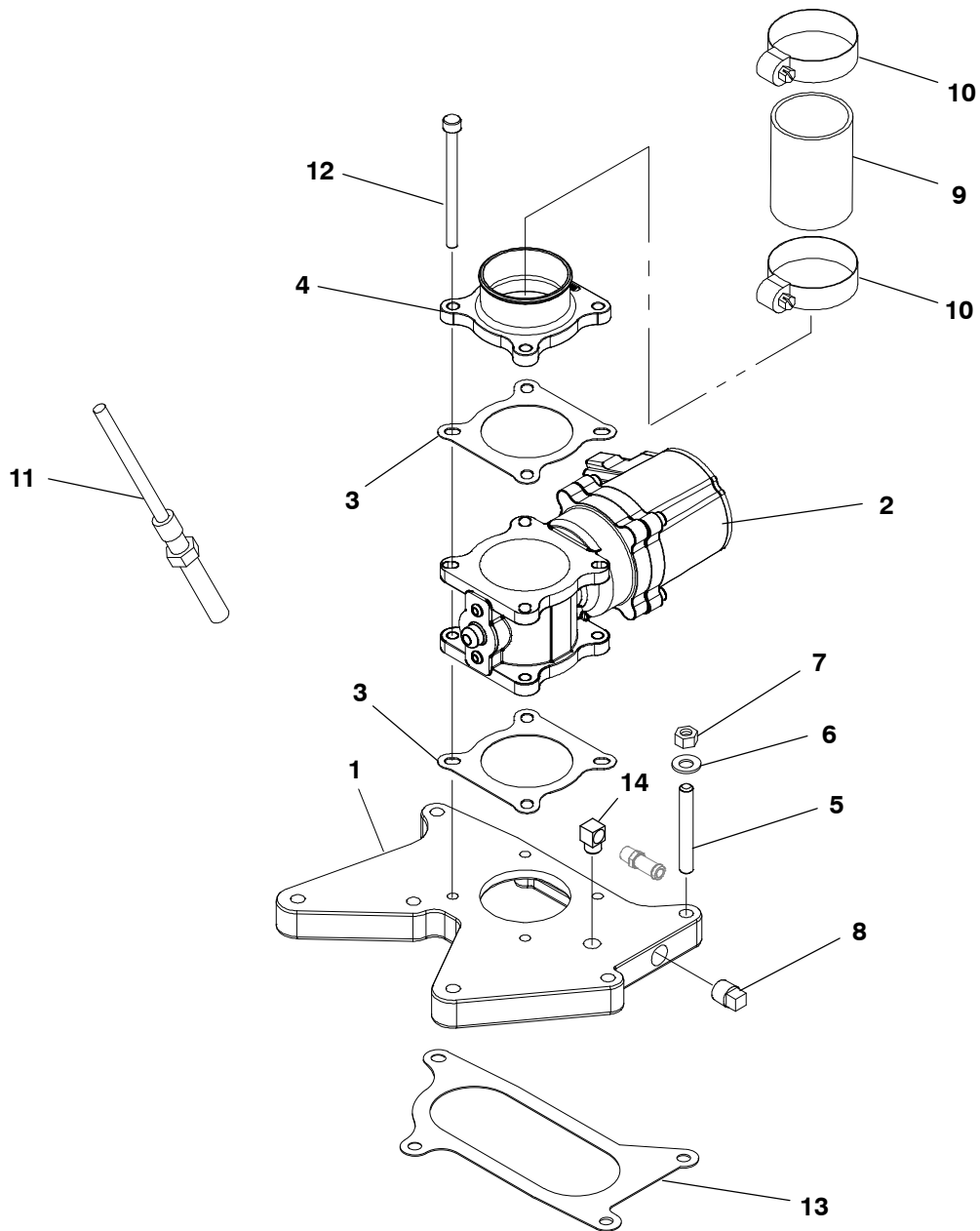
Alternator



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

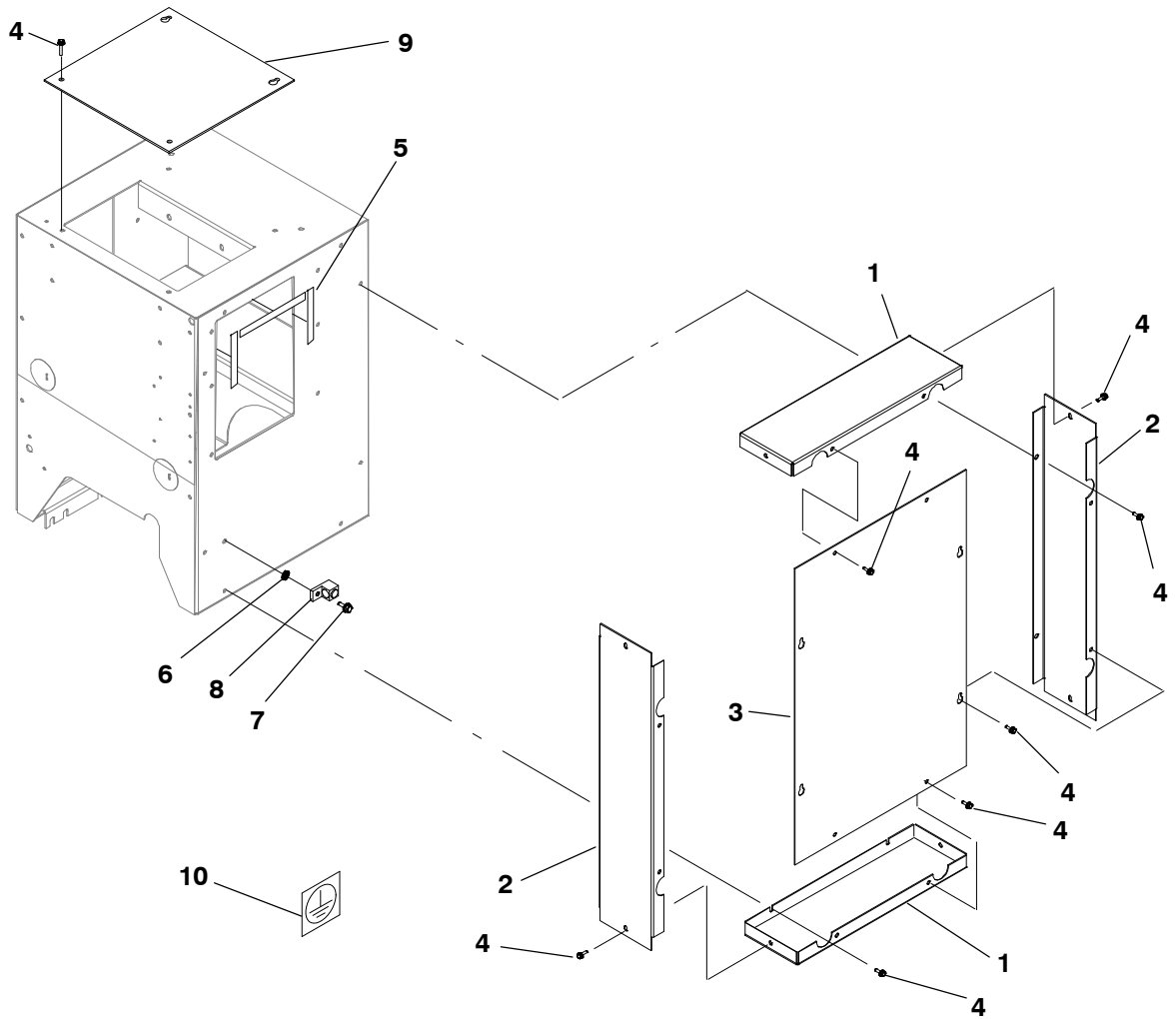
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4.	860-2008	1	Nut, Hex (M8 x 1.25)
5.	850-2005	2	Washer, Lock (M5)
6.	750-1006	2	Nut, Hex (M5 x 0.8)
7.	512-0229	1	Pulley, Alternator – 6 Groove

**Governor
GGHG/GGHH (Spec E-K)**



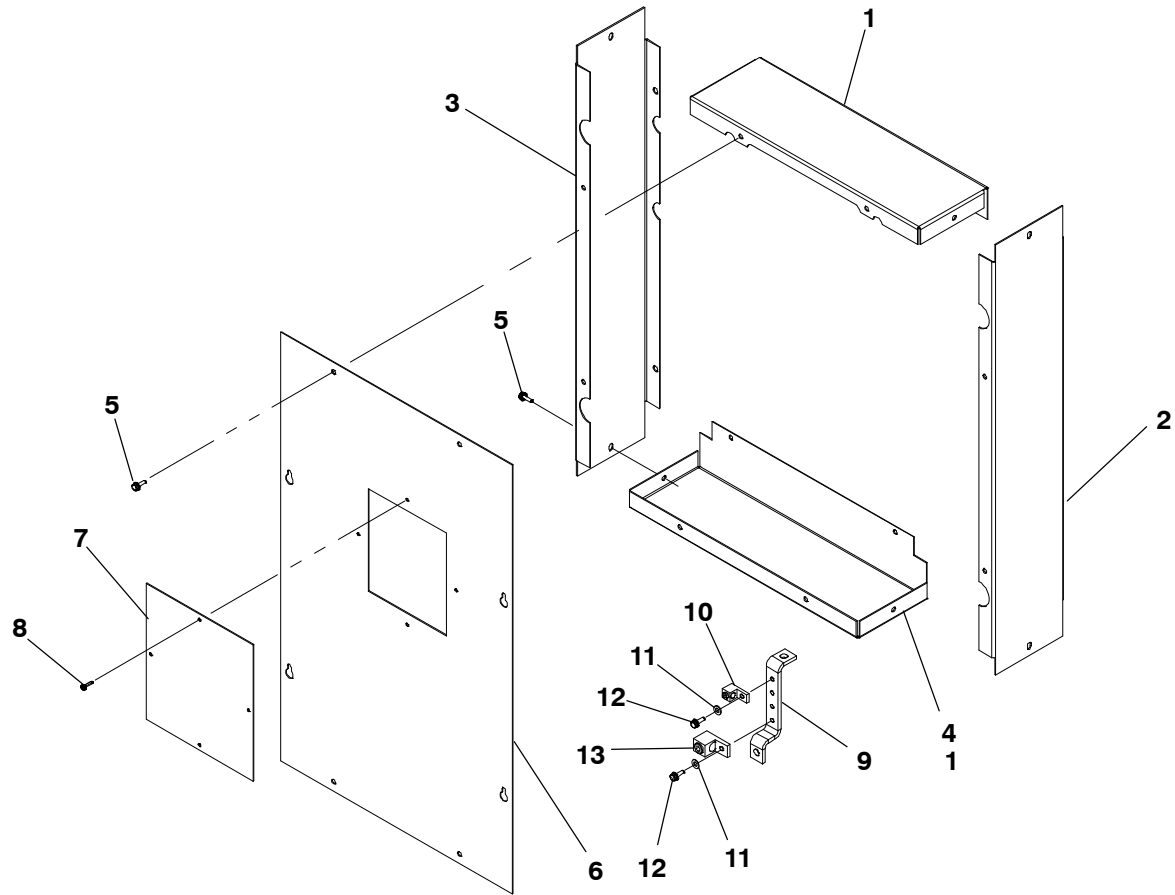
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	9	127-0443	1	Hose, Turbocharger
2	150-2808	1	Actuator, Rotary (50mm)	10	503-1870-03	2	Clamp, Hose
3	145-0813	2	Gasket, Throttle Body	11	150-2651	1	Pick-Up, Magnetic
4	145-0812	1	Adapter, Throttle Body	12	802-2539	4	Screw, Cap – Hex Head (M6 x 1.0 x 80)
5	520-1024	4	Stud (M6)	13	145-0786	1	Gasket, Throttle Body
6	526-2080	4	Washer, Flat (M6)	14	502-0020-01	1	Elbow, Pipe – Street (1/8)
7	862-0026-54	4	Nut, Hex (M6)				
8	505-0054	1	Plug, Square Head				

Entrance Box GGHG/GGHH (Spec E-L)



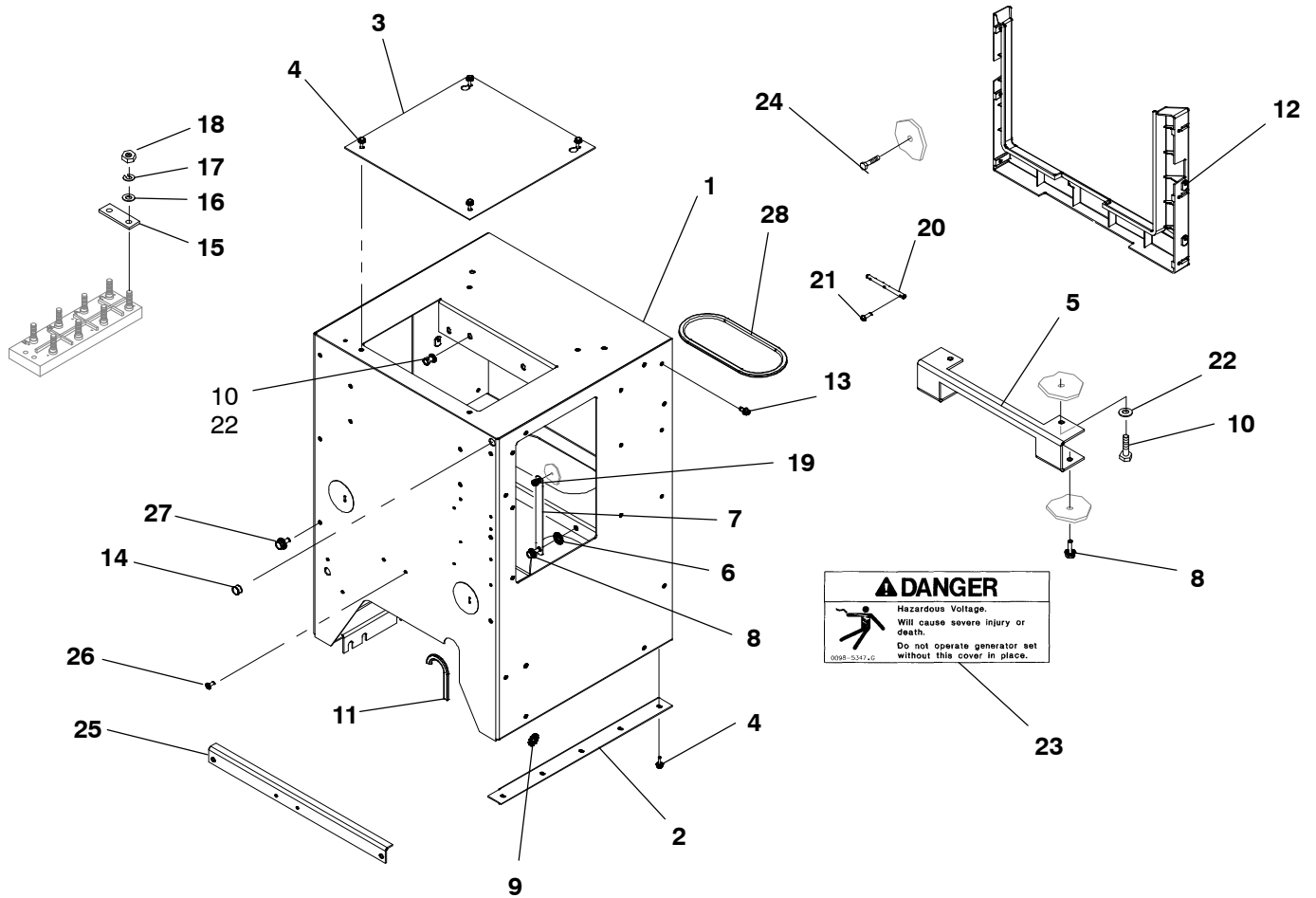
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3072	2	Panel, Box – Top and Bottom	6	856-0008	1	Washer, Lock – EIT (5/16")
2	319-2978	2	Panel, Box – Side	7	821-6003-02	1	Screw, Self-Locking – Hex Washer Head (M8 x 1.25 x 20mm)
3	319-2979-02	1	Cover, Entrance 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

Entrance Box – Low Voltage GGHJ (Spec A)



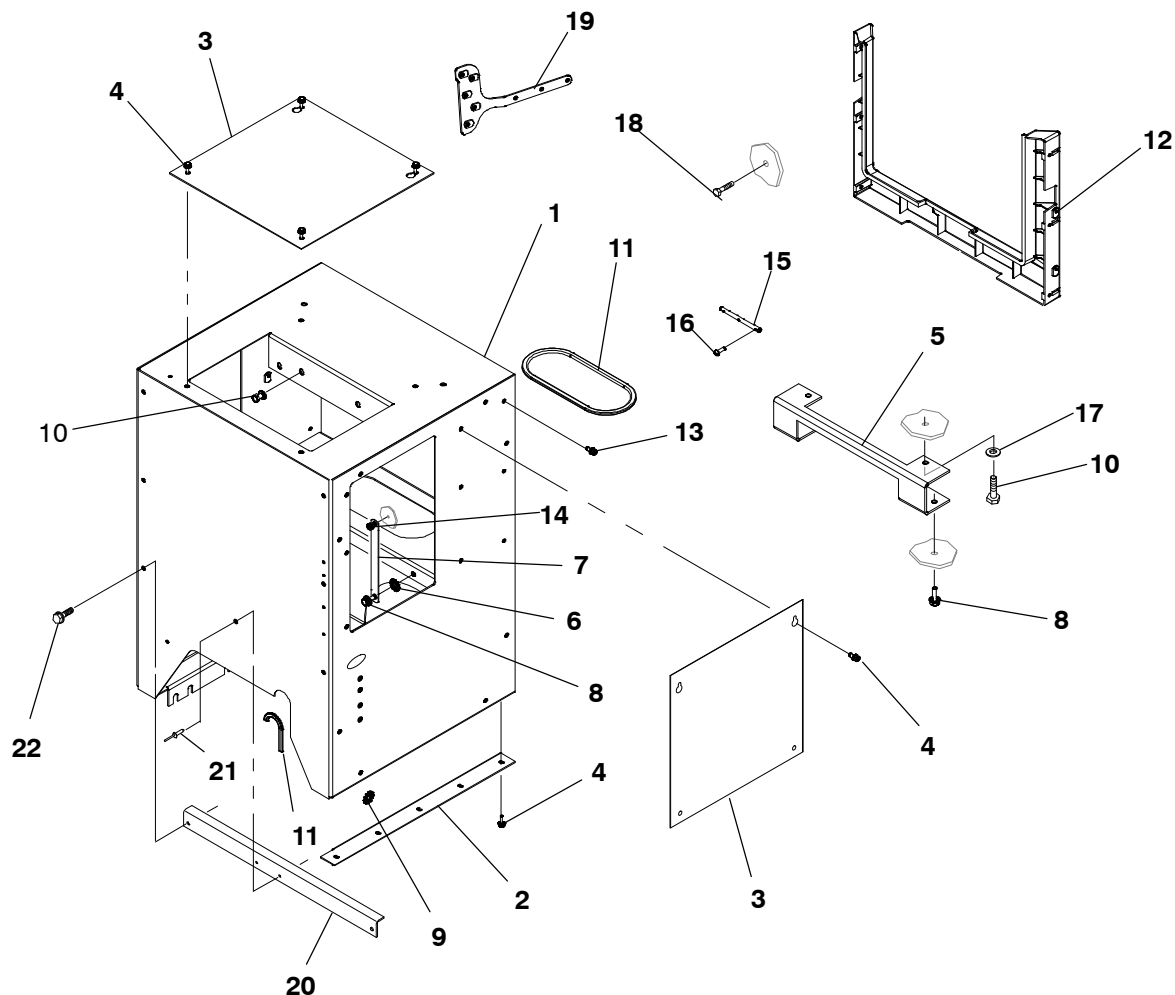
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A030D982	1	Panel, Circuit Breaker Box UC22	6	A034E046	1	Panel, Circuit Breaker
	A030D982	2	UC27	7	A034M965	1	Panel, Circuit Breaker
2	A032Y739	1	Panel, Circuit Breaker Box	8	818-0231-02	4	Rivet, Pop
3	A030G976	1	Panel, Circuit Breaker Box	9	A040S777	1	Busbar, Ground
4	A034W136	1	Panel, Circuit Breaker Box – UC22	10	332-3647	3	Lug, Solderless
5	821-6002-03 A/R		Screw, Hex Head	11	851-0027	4	Washer
				12	800-2035	4	Screw, Hex Head
				13	A034Z262	1	Lug, Solderless

Control Housing GGHG/GGHH (Begin Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3208	1	Panel, Housing – Control	14	517-0135	1	Plug, Hole
	319-2967	1	UCD22	15	332-2987	4	Link, Terminal
2	319-3207	1	Bracket, Control Mounting	16	526-2120	8	Washer, Flat (M10)
3	319-2996	1	Cover, Housing – Control	17	850-2010	8	Washer, Lock (M10)
4	821-6002-03	9	Screw, Hex Head (M6 x 16)	18	860-2009	8	Nut, Hex (M10 x 1.5)
	821-6002-03	4	UCD22	19	819-1144	1	Screw, Pan Head – Cross Recessed (M6 x 8)
5	319-4456-02	1	UC27	20	332-3740	1	Clamp, Strain
6	856-0010	1	Bracket, Control	21	814-2150	3	Screw, Flat Head – Cross Recessed (M3 x 0.5 x 10)
7	337-0049	1	Washer, Lock – W/EIT (3/8)	22	526-2100	4	Washer, Flat (M8)
8	821-6003-01	3	Strap, Bond	23	098-7244	1	Label, Danger
9	856-0012	1	Screw, Hex Head (M8 x 1.25 x 16)	24	821-6001-02	3	Screw, Hex Head (M5 x 0.8 x 12)
	856-0013	1	Washer, Lock – W/EIT		821-6001-02	2	UCD22
10	800-2052	4	UC27 (1/2)		319-4435-02	1	UC27
11	508-0239	–	Screw, Cap – Hex Head (M8 x 1.25 x 12)	25	818-0231-02	2	Brace, Control – Housing
12	319-4457	1	Edging – Bulk (Order By The Foot – 1 Foot Required)	26	821-5003-01	2	Rivet, Pop
13	815-0943-02	6	Panel, Control	27	508-0239	–	Screw, Hex Head (5/16-18 x .50)
			Screw, Hex Washer Head – Thread Forming (1/4-10 x .5)	28		–	Edging – Bulk (Order By The Foot – 2 Foot Required)

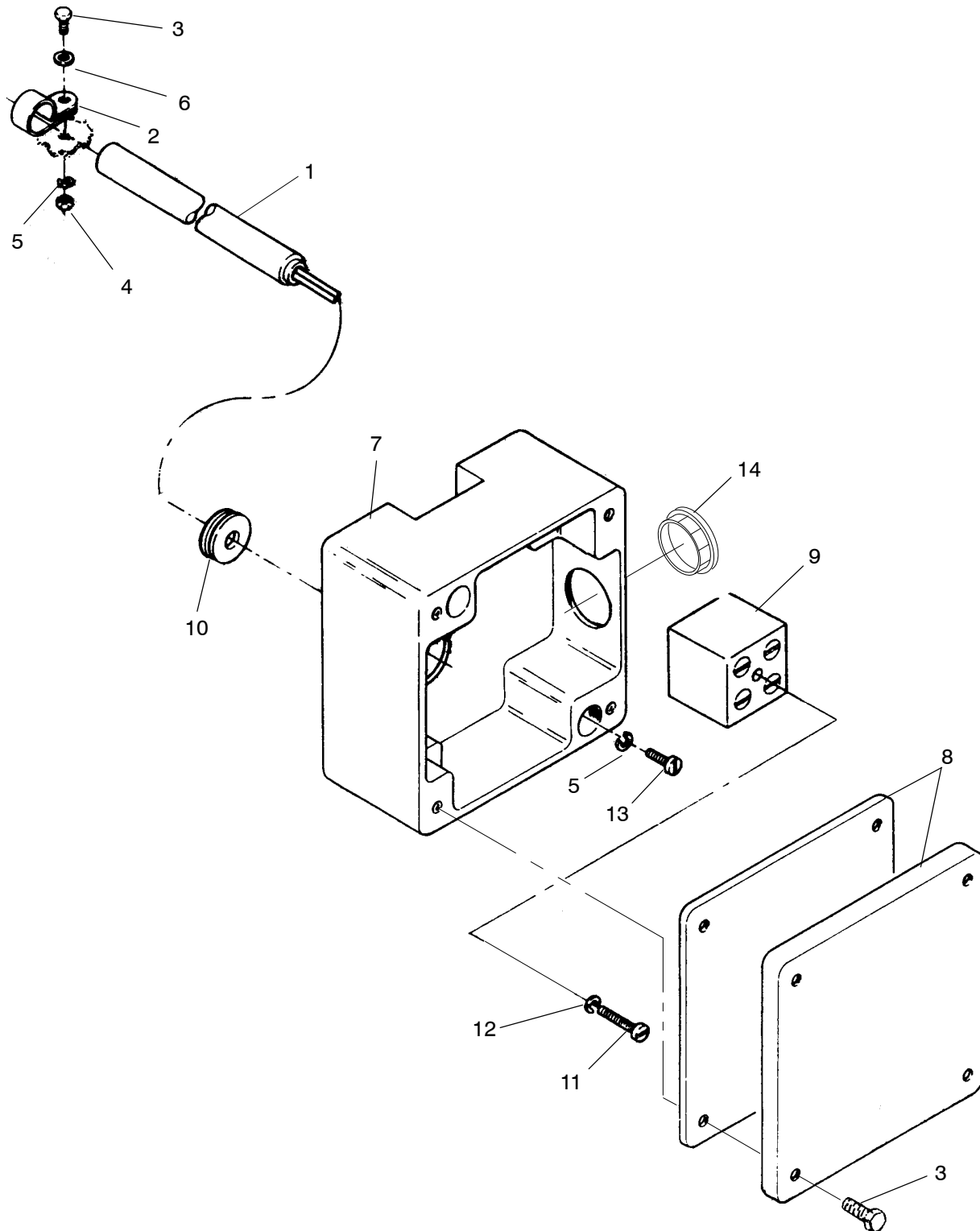
Control Housing GGHJ (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A030D341	1	Housing, Control Box	12	319-4457	1	Panel, Control
	A030D343	1	UC22	13	815-0943-02	6	Screw, Hex Washer Head – Thread Forming (1/4-10 x .5)
2	319-3207	1	Bracket, Control Mounting	14	819-1144	1	Screw, Pan Head – Cross Recessed (M6 x 8) – UC22
3	A030D345	A/R	Cover, Housing – Control	15	332-3740	1	Clamp, Strain
4			Screw, Hex Head (M6 x 16)	16	814-2150	3	Screw, Flat Head – Cross Recessed (M3 x 0.5 x 10)
	821-6002-03	17	UC22	17	526-2100	4	Washer, Flat (M8)
	821-6002-03	4	UC27	18			Screw, Hex Head (M5 x 0.8 x 12)
5	319-4456-02	1	Bracket, Control		821-6001-02	7	UC22
6	856-0010	1	Washer, Lock – W/EIT (3/8)		821-6001-02	8	UC27
7	337-0049	1	Strap, Bond – UC22	19	A034Z569	1	Bracket, Alternator
8	821-6003-01	3	Screw, Hex Head (M8 x 1.25 x 16)	20	319-4435-02	1	Brace, Control Housing – UC27
9			Washer, Lock – W/EIT	21	818-0231-02	2	Rivet, Pop – UC27
	856-0012	1	UC22 (7/16)	22	821-5003-01	2	Screw, Hex Head – UC27
	856-0012	2	UC27 (1/2)				
10	800-2052	4	Screw, Cap – Hex Head (M8 x 1.25 x 12)				
11	A040S844	–	Edging – Bulk (Order By The Foot – 3 Foot Required)				

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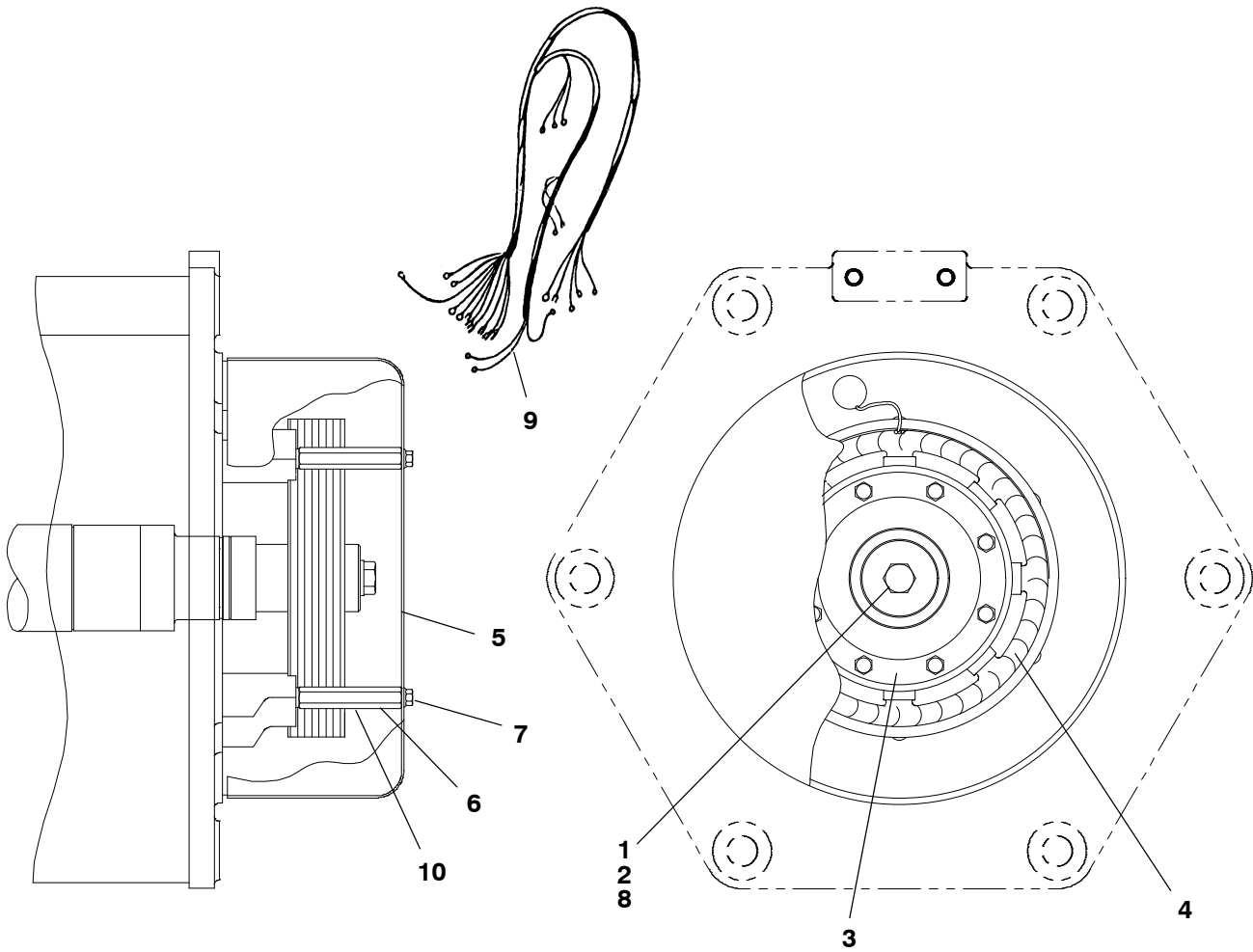
Generator Heater



Generator Heater

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

Permanent Magnet Generator (PMG)

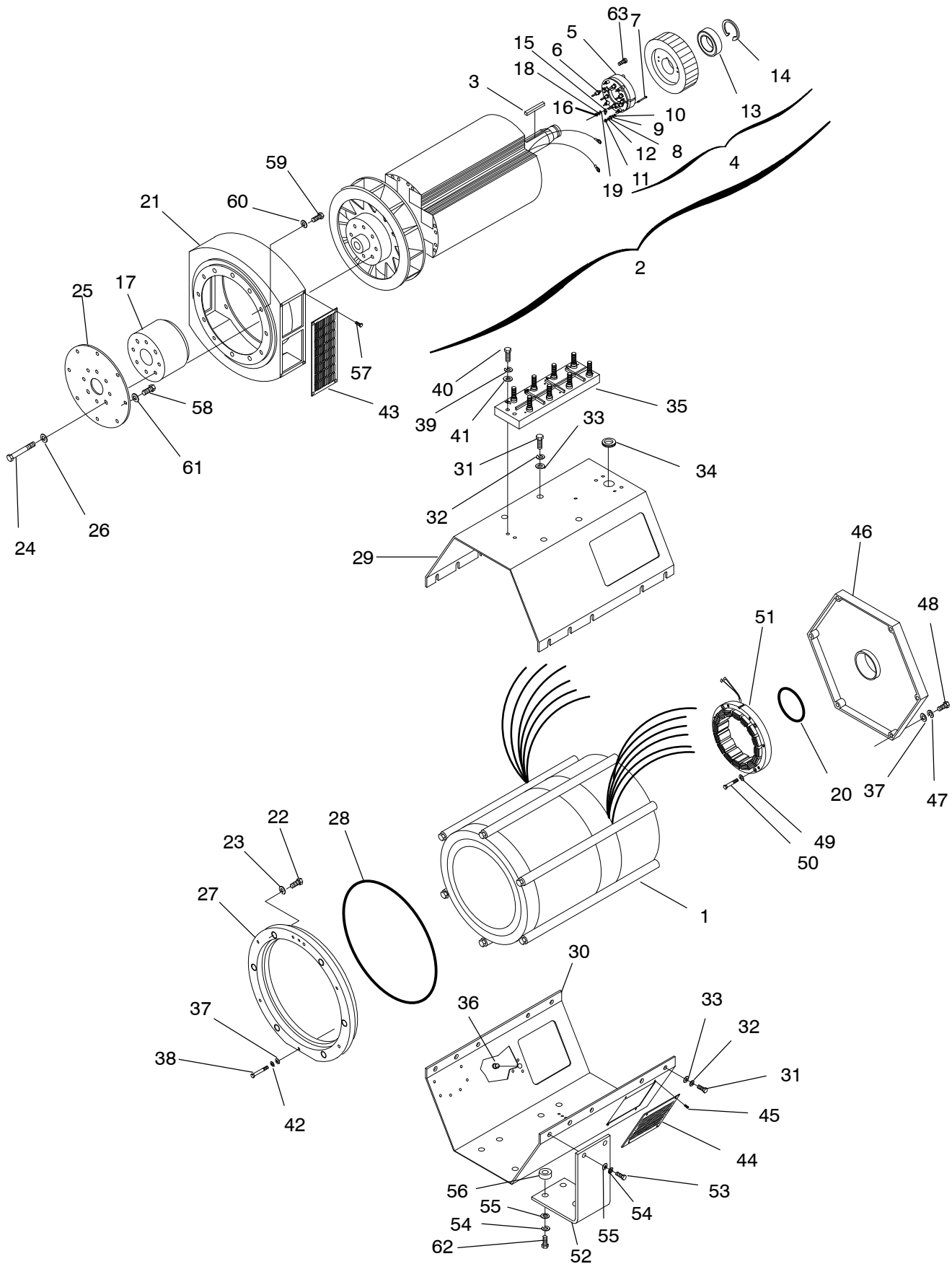


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	775-0049	1	Pin, Parallel
2	815-0761-01	1	Bolt, Mounting – PMG
3	A029M562	1	Rotor, PMG
4	A029M560	1	Stator, PMG
5	234-0875-02-G1		Cover, End Bell

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

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Generator



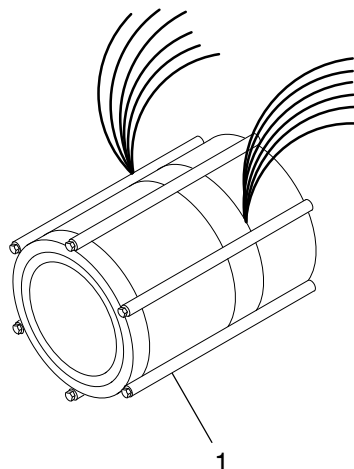
Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	200-3032-08	1	Generator, Assembly	23	850-0114-55	6	Washer, Lock – Spring (M10)
	200-3032-09	1	Generator, Assembly	24	720-1119	8	Screw, Cap – Hex Head (M16 x 40mm)
	200-3032-10	1	Generator, Assembly				
	200-3032-11	1	Generator, Assembly	25	232-3699	3	Disc, Drive – Generator
	200-3032-13	1	Generator, Assembly	26	526-0259	8	Washer, Flat (5/8") Hardened
	200-3032-14	1	Generator, Assembly	27	231-0319	1	Adapter, Generator Stator
	200-3032-15	1	Generator, Assembly	28	508-0139	–	Seal, Edging – Bulk (Order by the Foot – 3 Feet Required)
	200-3032-16	1	Generator, Assembly				
	200-3032-17	1	Generator, Assembly	29			Cover, Stator – Top
	200-3032-18	1	Generator, Assembly		234-0937-01	1	165, 190mm Stack Length
	200-3032-19	1	Generator, Assembly		234-0937-02	1	130, 285mm Stack Length
	200-3032-20	1	Generator, Assembly		234-0937-03	1	335mm Stack Length
	200-3032-21	1	Generator, Assembly	30			Cover, Stator – Bottom
	200-3032-22	1	Generator, Assembly		232-3820-01	1	165, 190mm Stack Length
	200-3032-23	1	Generator, Assembly		232-3820-02	1	130, 285mm Stack Length
	200-3032-31	1	Generator, Assembly		232-3820-03	1	335mm Stack Length
	200-3032-32	1	Generator, Assembly	31	800-3017-54	10	Screw, Cap – Hex Head (M12 x 30mm)
	200-3032-33	1	Generator, Assembly				
	200-3032-34	1	Generator, Assembly	32	850-0114-56	10	Washer, Lock – Spring (M12)
1	–	1	Stator, Generator (See Separate Pages for Part Numbers)	33	526-0399-64	10	Washer, Flat (M12)
2			Rotor Assembly, Generator (Includes Parts Marked *)	34	508-1057	1	Grommet
	201-3497-01	1	165mm Stack Length	35	232-3421	1	Block, Terminal
	201-3497-02	1	190mm Stack Length	36	517-0135	1	Plug, Hole
	201-3497-03	1	230mm Stack Length	37	526-0077	12	Washer, Flat (13/32" ID x 1-1/4" OD x 1/4" Thk)
	201-3497-04	1	285mm Stack Length	38	800-3017-38	6	Screw, Cap – Hex Head (M10 x 30mm)
	201-3497-05	1	335mm Stack Length	39	850-2008	3	Washer, Lock – Spring (M8)
3			*Key, Exciter Rotor	40	718-1039	3	Screw, Cap – Hex Head (M8 x 35mm)
	515-0297-01	1	160, 190mm Stack Length	41	526-2100	3	Washer, Flat (M8)
	515-0297-02	1	230, 285mm Stack Length	42	850-0114-55	6	Washer, Lock – Spring (M10)
	515-0297-03	1	335mm Stack Length	43	234-0867	2	Guard, Fan – Generator
4			*Rotor Assembly, Exciter (Includes Parts Marked #)	44	234-0879	2	Screen, Air Inlet
	201-3434-02	1	165, 190mm Stack Length	45	821-6001-02	8	Screw, Self-Locking – Hex Washer Head (M5 x 12mm)
	201-3434-03	1	230, 285, 335mm Stack Length	46	211-0423	1	Bell, End
5			*#Rectifier Assembly (Includes Parts Marked +)	47	850-0114-55	6	Washer, Lock – Spring (M10)
	357-0091	1	Forward (With Positive Diode)	48	800-3017-38	6	Screw, Cap – Hex Head (M10 x 30mm)
	357-0092	1	Reverse (With Negative Diode)	49	850-2006	4	Washer, Lock – Spring (M6)
6			*#+Diode	50			Screw, Cap – Hex Head (M6)
	358-0135-01	3	Positive		800-2042	4	165, 190mm Stack Length
	358-0135-02	3	Negative		800-2046	4	230, 285, 335mm Stack Length
7	800-3009	6	*#+Screw, Cap – Hex Head (M4 x 35mm) (CR1,2,3,4,5,6)	51			Stator, Exciter
8	860-2005	6	*#+Nut, Hex (M4)		220-4293-05	1	165, 190mm Stack Length
9	850-2004	6	*#+Washer, Lock – Spring (M4)		220-4293-06	1	230, 285, 335mm Stack Length
10	526-2050	6	*#+Washer, Flat (M4)	52	232-3925	2	Bracket, Mounting – Generator Foot
11	870-2064-01	6	*#Nut, Locking – Nylon (M4)				
12	526-2050	6	*#Washer, Flat (M4)	53	800-2543-05	4	Screw, Cap – Hex Head (M12 x 40mm)
13	510-0164	1	*Bearing, Ball				
14	518-0083	1	*Ring, Retaining	54	850-0117	8	Washer, Lock – Spring (M12)
15	304-0807	1	*Varistor	55	526-0433	8	Washer, Flat (M12)
16	860-2006	2	*Nut, Hex (M5)	56	232-3730-04	4	Spacer, Mounting Foot
17	232-3695	1	*Hub, Drive	57	821-6001-01	8	Screw, Self-Locking – Hex Washer Head (M5 x 10mm)
18	850-2005	2	*Washer, Lock – Spring (M5)				
19	526-2060	2	*Washer, Flat (M5)	58	805-0015	8	Bolt, Place (3/8-16 x .75")
20	509-0266-02	1	O-Ring	59	800-2087	12	Screw, Cap
21	231-0317	1	Adapter, Generator	60	850-2010	12	Washer, Lock – Spring (M10)
22			Screw, Cap – Hex Head	61	526-0174	8	Washer, Flat (3/8")
	800-3017-42	5	M10 x 50mm	62	800-2543-05	4	Screw, Cap – Hex Head (M12 x 40mm)
	800-3017-44	1	M10 x 60mm (12 O'Clock Position)				

Generator

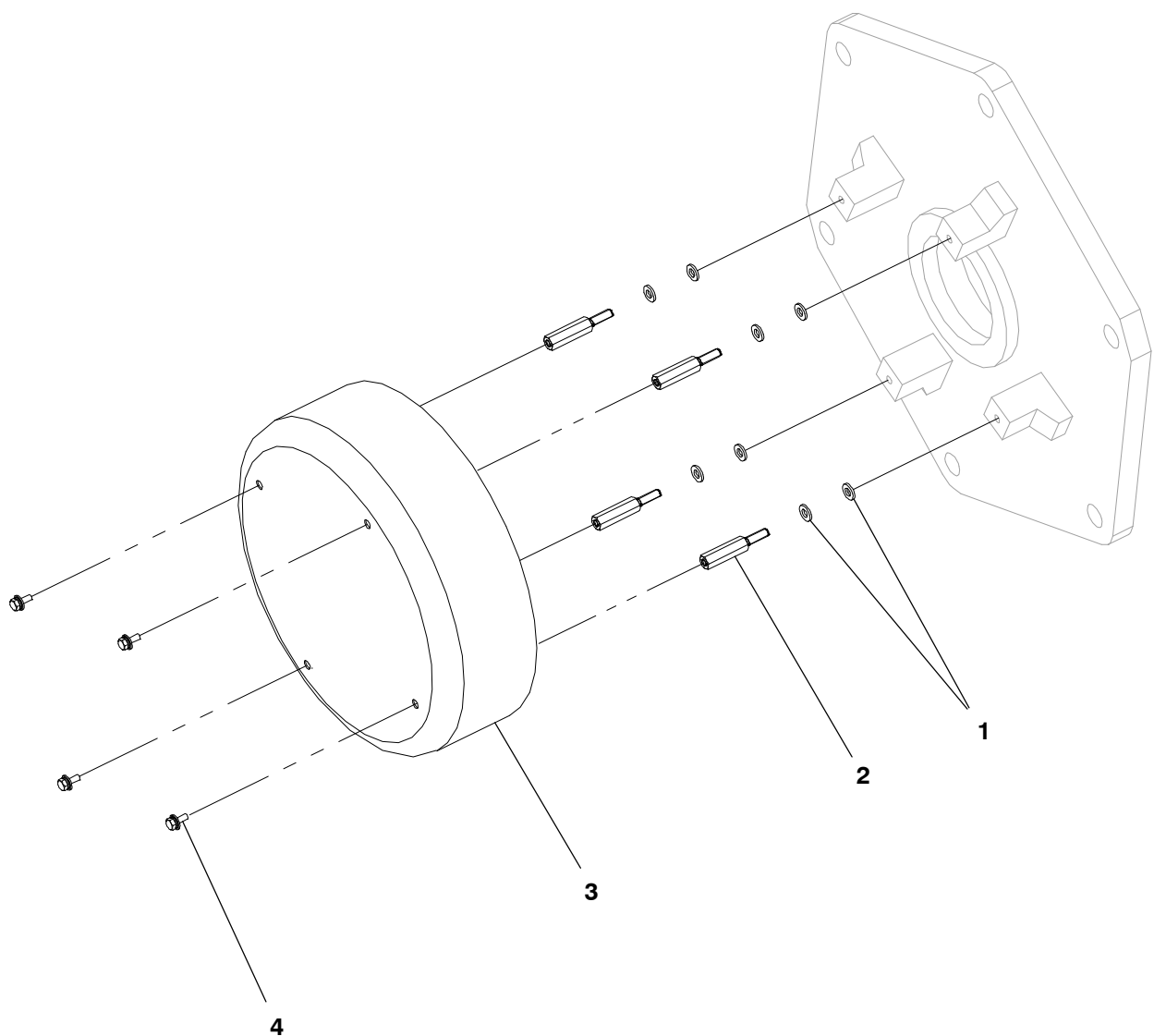
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
63	800-2044	4	*Screw				
64	332-0806	A/R	#Terminal, Recpt (Not Shown)				* – Parts Included in Generator Rotor Assemblies
65	515-0298-03	1	*Key, Mach (Exctr) (Not Shown)				# – Parts Included in Exciter Rotor Assemblies
66	205-0288	1	*Fan, Generator (Not Shown)				+ – Parts Included in Rectifier Assemblies

Generator Stator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator, Generator
			GGHG
	220-4448-08	1	190mm Stack Length, Winding Code 6
	220-4448-09	1	230mm Stack Length, Winding Code 6
	220-4448-13	1	165mm Stack Length, Winding Code 11
	220-4448-14	1	190mm Stack Length, Winding Code 11
	220-4448-15	1	230mm Stack Length, Winding Code 11
	220-4448-16	1	285mm Stack Length, Winding Code 11
	220-4448-19	1	165mm Stack Length, Winding Code 14
	220-4448-31	1	165mm Stack Length, Winding Code 17
			GGHH
	220-4448-09	1	230mm Stack Length, Winding Code 6
	220-4448-10	1	285mm Stack Length, Winding Code 6
	220-4448-13	1	165mm Stack Length, Winding Code 11
	220-4448-14	1	190mm Stack Length, Winding Code 11
	220-4448-15	1	230mm Stack Length, Winding Code 11
	220-4448-16	1	285mm Stack Length, Winding Code 11
	220-4448-17	1	335mm Stack Length, Winding Code 11
	220-4448-19	1	165mm Stack Length, Winding Code 14
	220-4448-20	1	190mm Stack Length, Winding Code 14
	220-4448-21	1	230mm Stack Length, Winding Code 14
	220-4448-31	1	165mm Stack Length, Winding Code 17
	220-4448-32	1	190mm Stack Length, Winding Code 17
			GGHJ
	220-4448-10	1	285mm Stack Length, Winding Code 6
	220-4448-11	1	235mm Stack Length, Winding Code 6
	220-4448-15	1	230mm Stack Length, Winding Code 11
	220-4448-16	1	285mm Stack Length, Winding Code 11
	220-4448-17	1	335mm Stack Length, Winding Code 11
	220-4448-18	1	375mm Stack Length, Winding Code 11
	220-4448-21	1	230mm Stack Length, Winding Code 14
	220-4448-22	1	285mm Stack Length, Winding Code 14
	220-4448-23	1	335mm Stack Length, Winding Code 14
	220-4448-33	1	230mm Stack Length, Winding Code 17
	220-4448-34	1	285mm Stack Length, Winding Code 17

End Bell

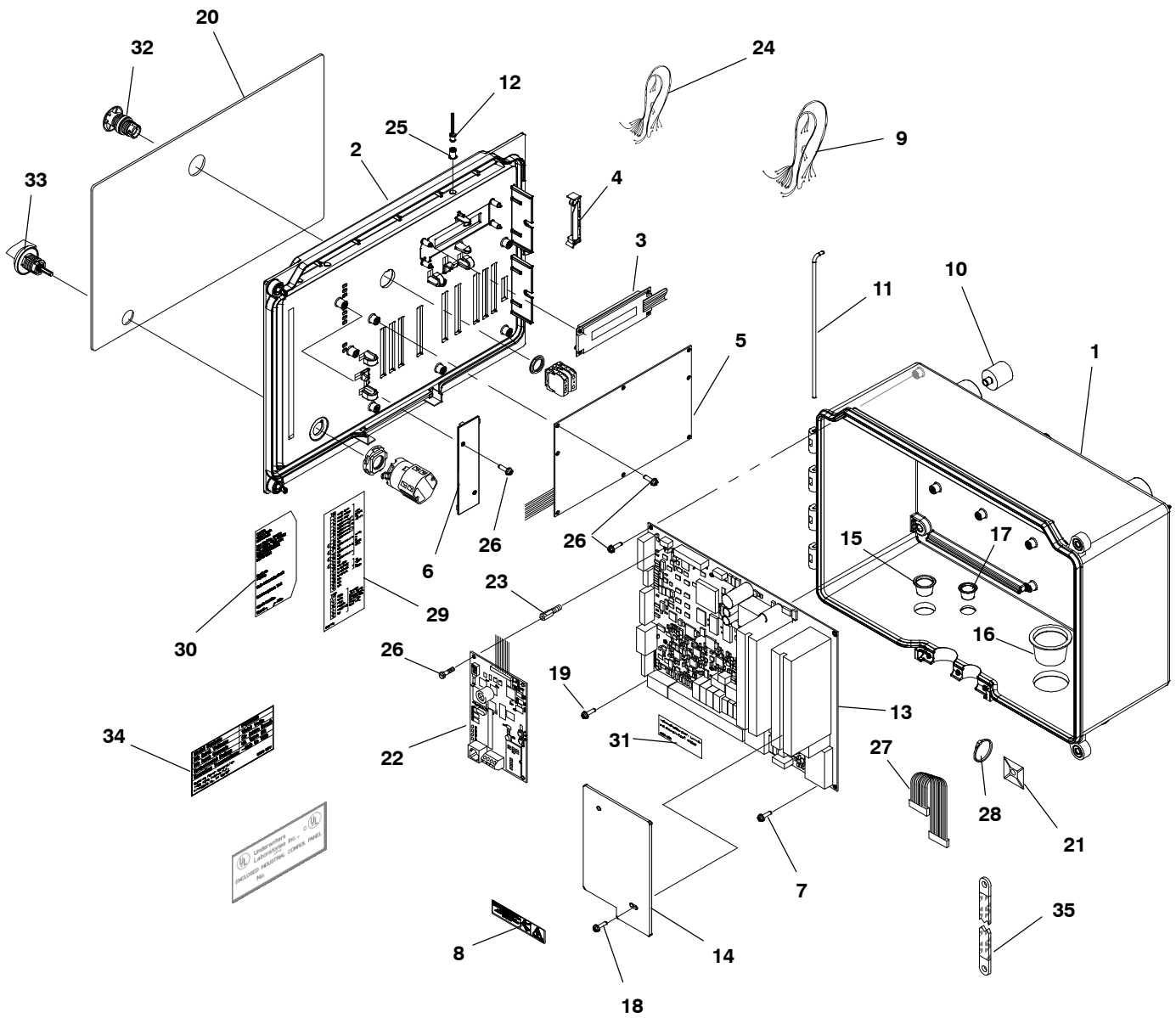


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	526-2080	8	Washer, Flat (M6)
2	232-3462-01	4	Spacer, Cover
3	234-0875-01	1	Cover, End Bell

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

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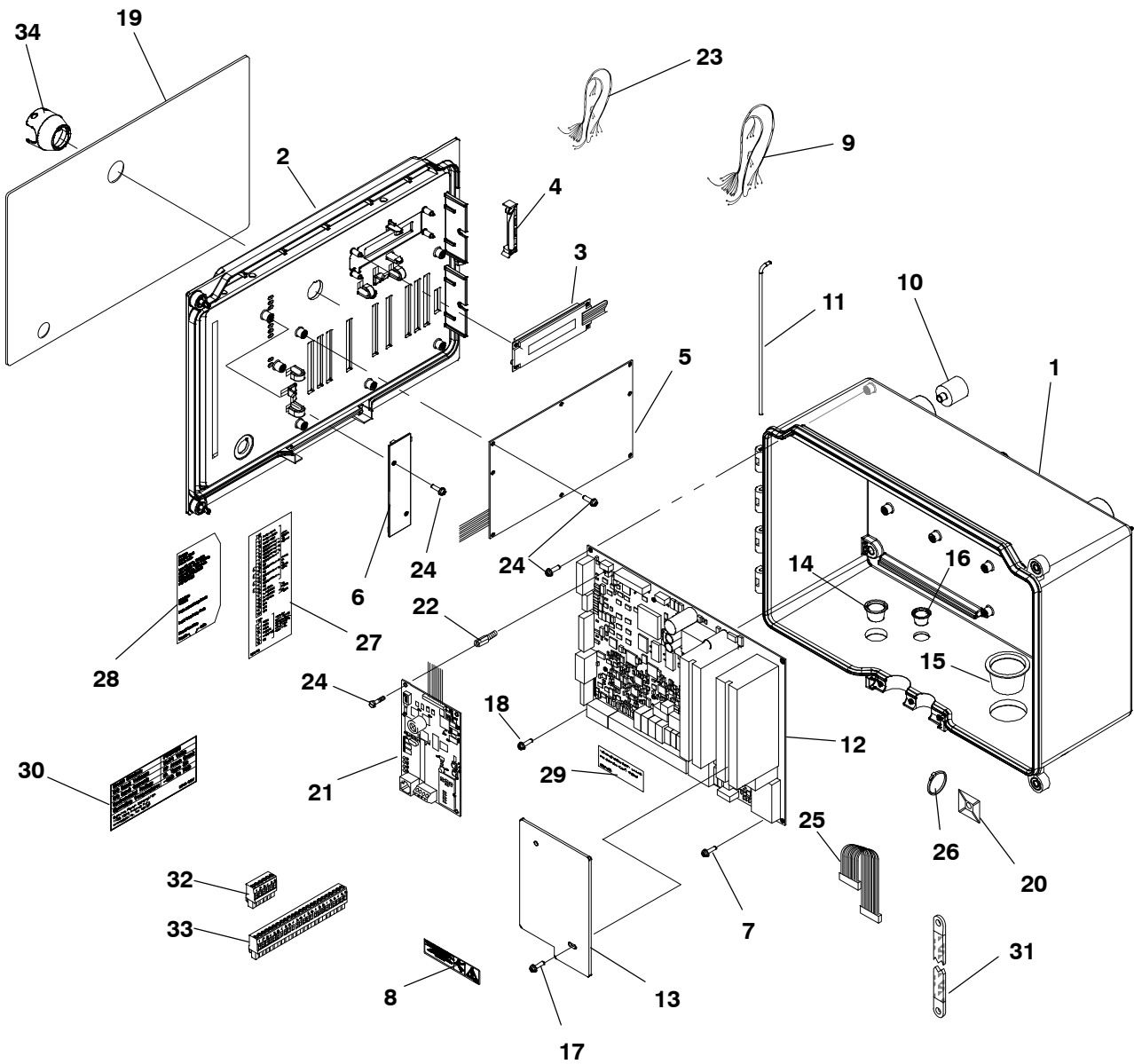
Control GGHG/GGHH (Spec E-L)



Control
GGHG/GGHH (Spec E-L)

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

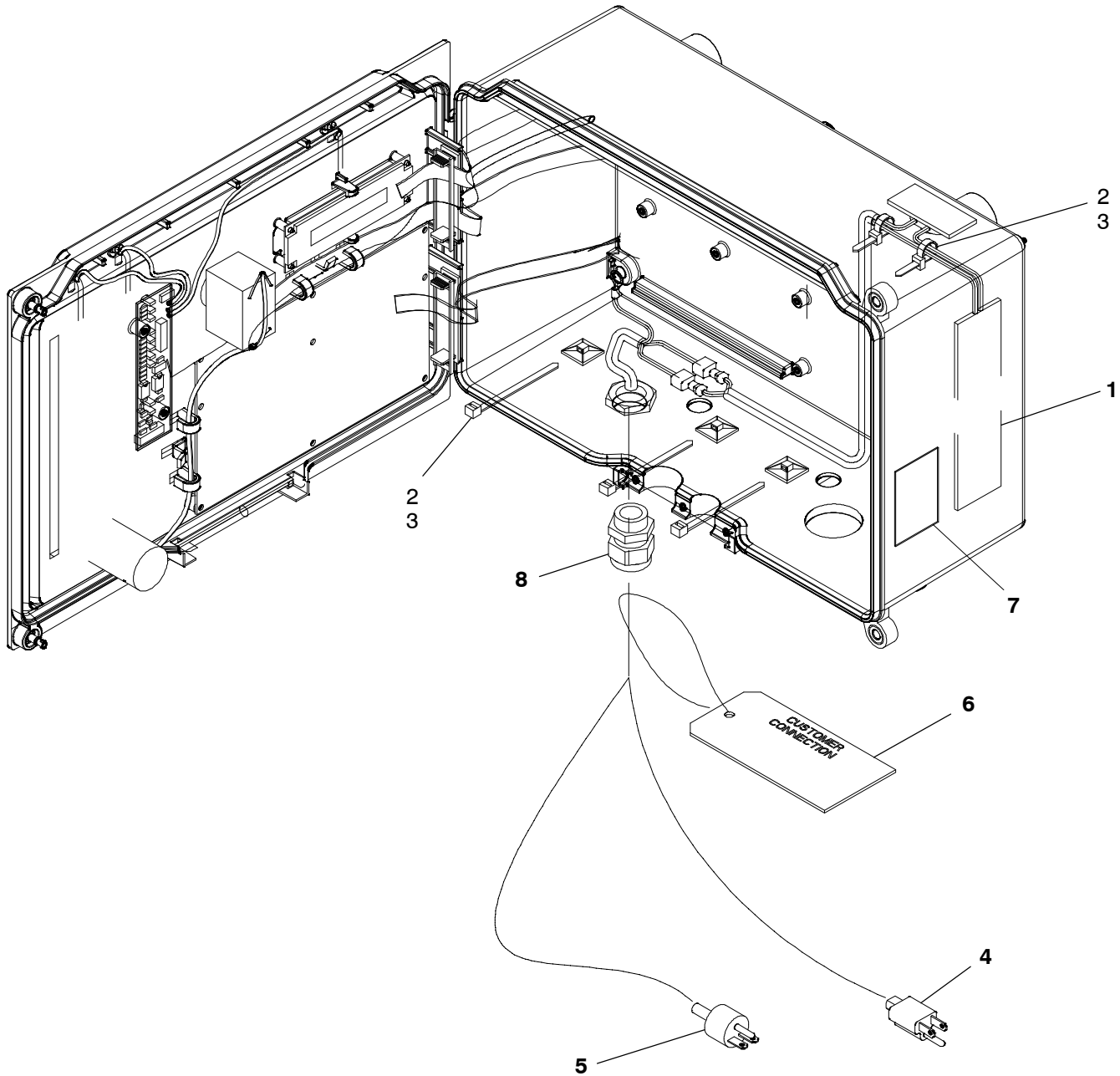
**Control
GGHG/GGHH (Spec M)
GGHJ (Spec A)**



Control GGHJ (Spec A)

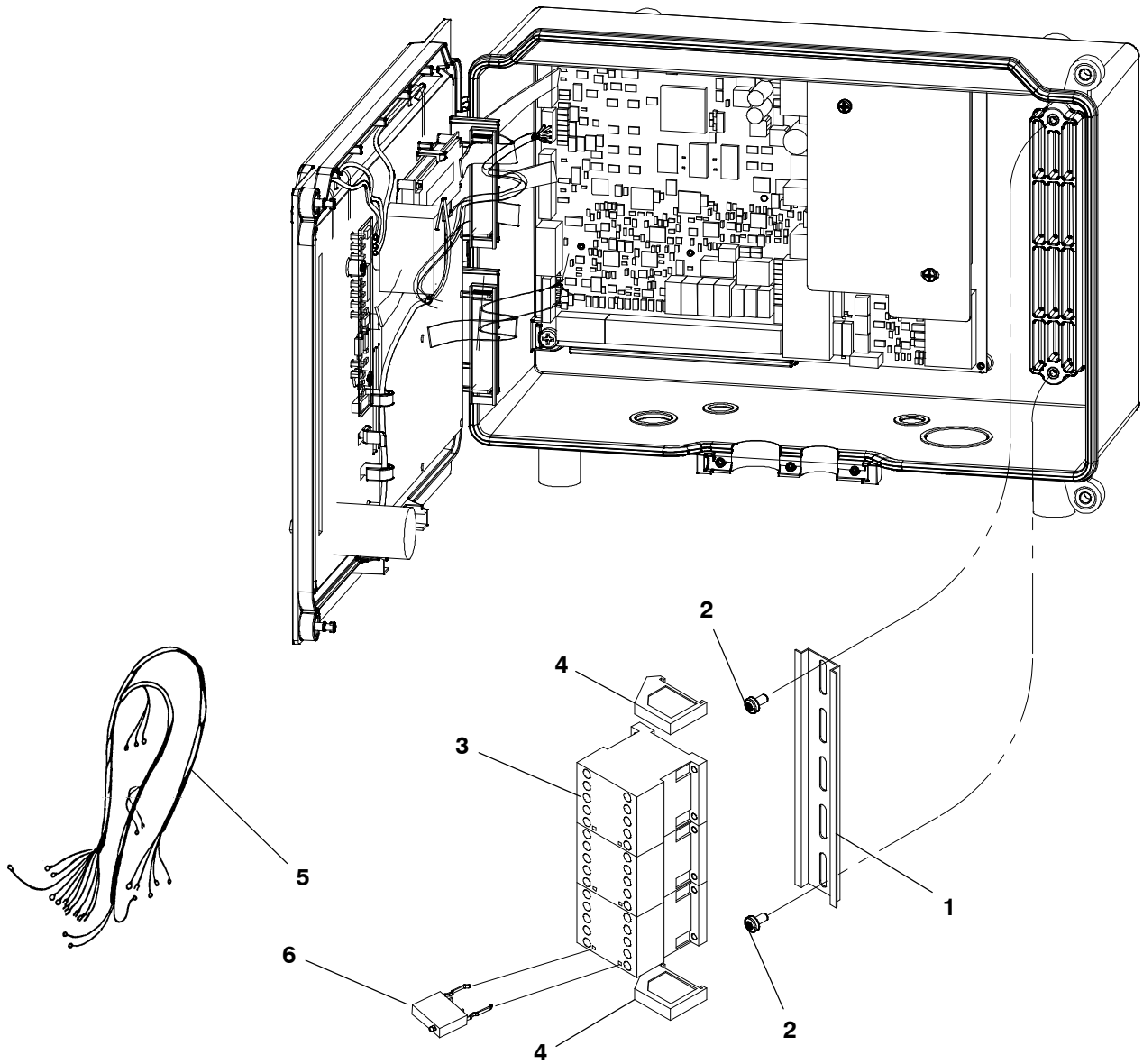
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4487	1	Box, Control	18	819-1144	2	Screw, Pan Head – Cross Recessed (M6 x 8)
2	319-4488	1	Door Control	19			Panel, Membrane
3	300-5467	1	Display, Digital		300-5447	1	Without Bargraph
4	332-3896	4	Clamp, Cable		300-5446	1	With Bargraph
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	338-5027	1	Harness, Panel Light
9	A040U808	1	Harness, Control – Door	24			Screw, Pan Head – Cross Recessed (M3 x 6)
10	402-0764-01	4	Mount, Isolator		819-1137-01	9	Without Bargraph
11	406-0845	1	Pin, Hinge		819-1137-01	15	With Bargraph
12	327-1379-02	1	Board, Printed Circuit – Base (Includes Fuses)	25	335-0189	1	Cable, Ribbon
	321-0321-06	1	Fuse, Fast – 10A	26	332-0942	3	Tie, Cable
	321-0321-04	1	Fuse, Fast – 5A	27	098-7918	1	Label, Information
	321-0321-01	1	Fuse, Fast – 2A	28	098-7961-01	1	Label, Information – Panel Insert
13	319-4497	1	Guard, Electrical	29	098-7989	1	Label, Instruction – Torque
14	517-0356	1	Plug, Hole (Fits 22.5mm DIA. Hole)	30	098-8057	1	Label, Information – Rating
15	517-0357	1	Plug, Hole (Fits 38mm DIA. Hole)	31	337-0049	1	Strap, Bond
16	517-0355	2	Plug, Hole (Fits 16mm DIA. Hole)	32	323-1951	1	Connector, Plug (6 Position, Vertical)
17	815-0792-02	2	Screw, Machine – Pan Head (M4 x 0.7 x 8)	33	323-1953	1	Connector, Plug Positive (22 Position, Vertical)
				34	319-6766	1	Guard, Electrical

Control Heater



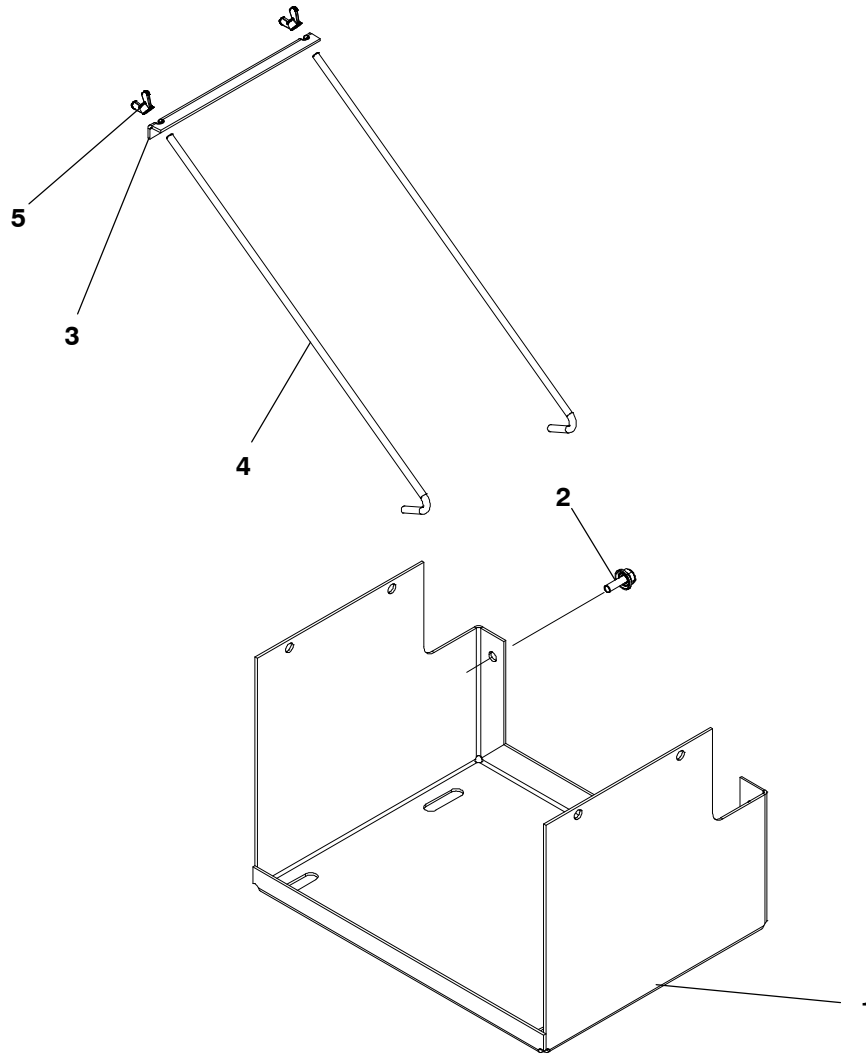
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0661-01	1	Heater, Control 120V	5	335-0173-01	1	Cable, Control Heater – 240V
	333-0661-02	1	240V	6	098-6195	1	Label, Caution
2	332-2420	3	Mount, Cable Tie	7	323-2003-02	1	Strain Relief
3	332-0942	3	Tie, Cable				
4	335-0173	1	Cable, Control Heater – 120V				

Customer Relay



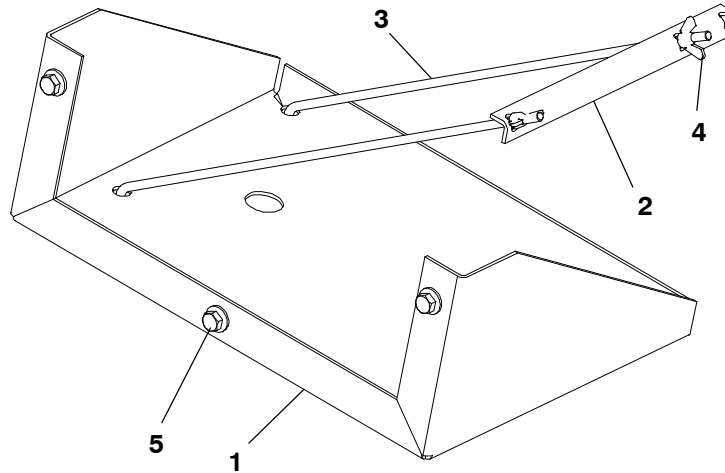
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-3842-01	1	Rail, Terminal Block	4	332-2878	2	Bracket, End - Terminal
2	819-1154	2	Screw, Pan Head - Cross Recessed (M5)	5	338-4438	1	Harness, Relay
3	307-2873	3	Relay, Control - 12V (K10, K11, K12)	6	305-1009	3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

Battery Tray
For UL 2200 Approved Generator Sets
GGHG/GGHH



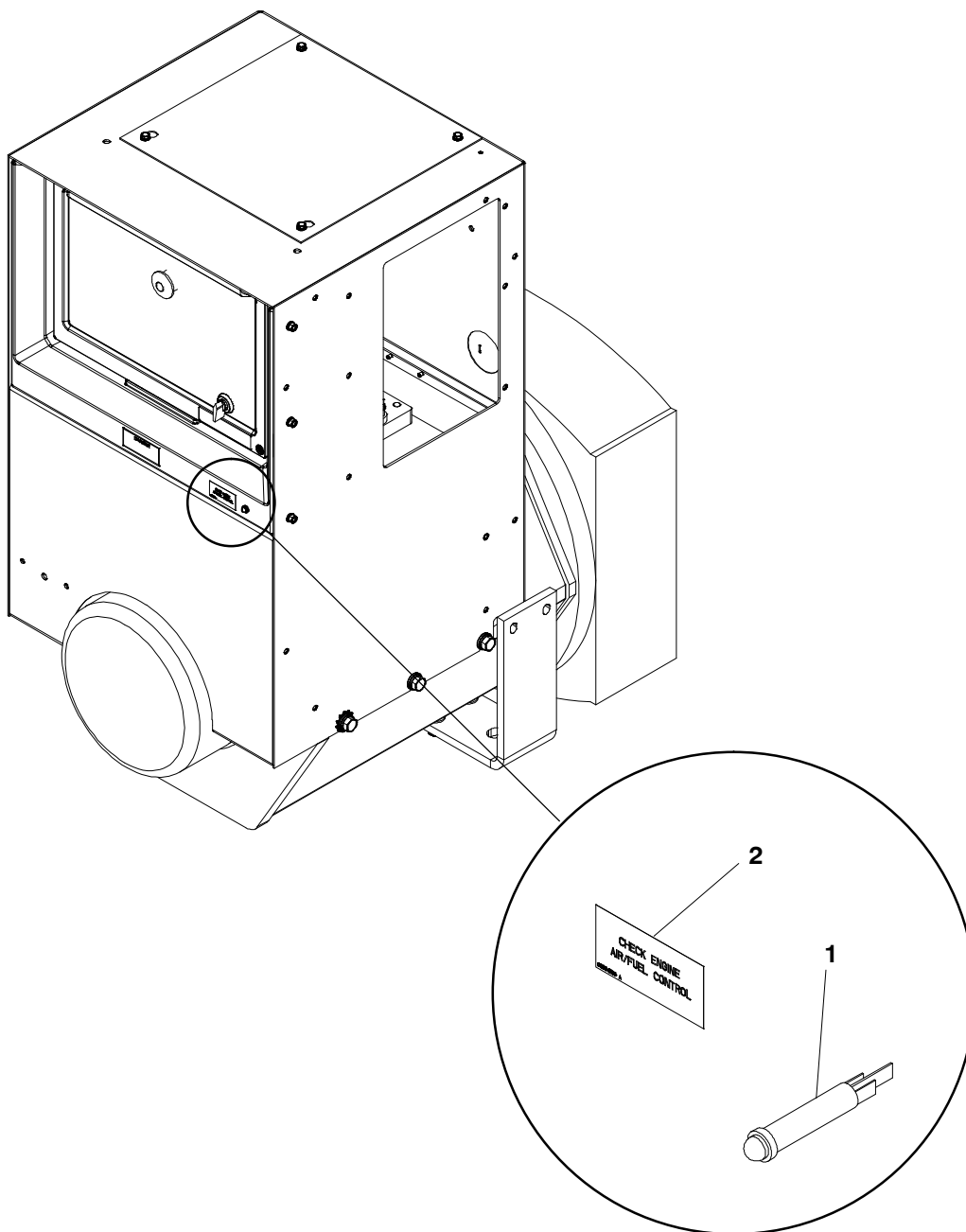
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	416-1100-02	1	Tray, Battery	3	416-1103-02	1	Hold Down, Battery
2	821-6003-02	3	Screw, Hex Head (M8 x 1.25 x 20)	4	416-0993-02	2	Rod, Battery Hold Down
				5	865-0030	2	Nut, Wing

Battery Tray
For Non-UL 2200 Approved Generator Sets
GGHG/GGHH



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

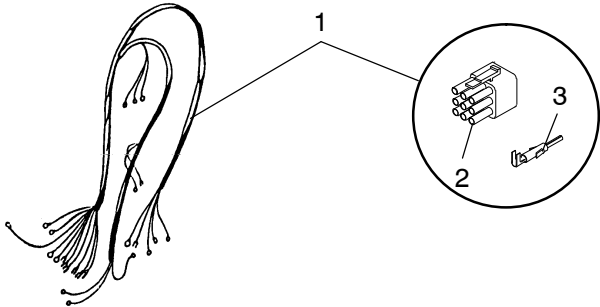
Check Engine Lamp GGHG/GGHH (Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	322-0508	1	LED - Red (12 Volt)

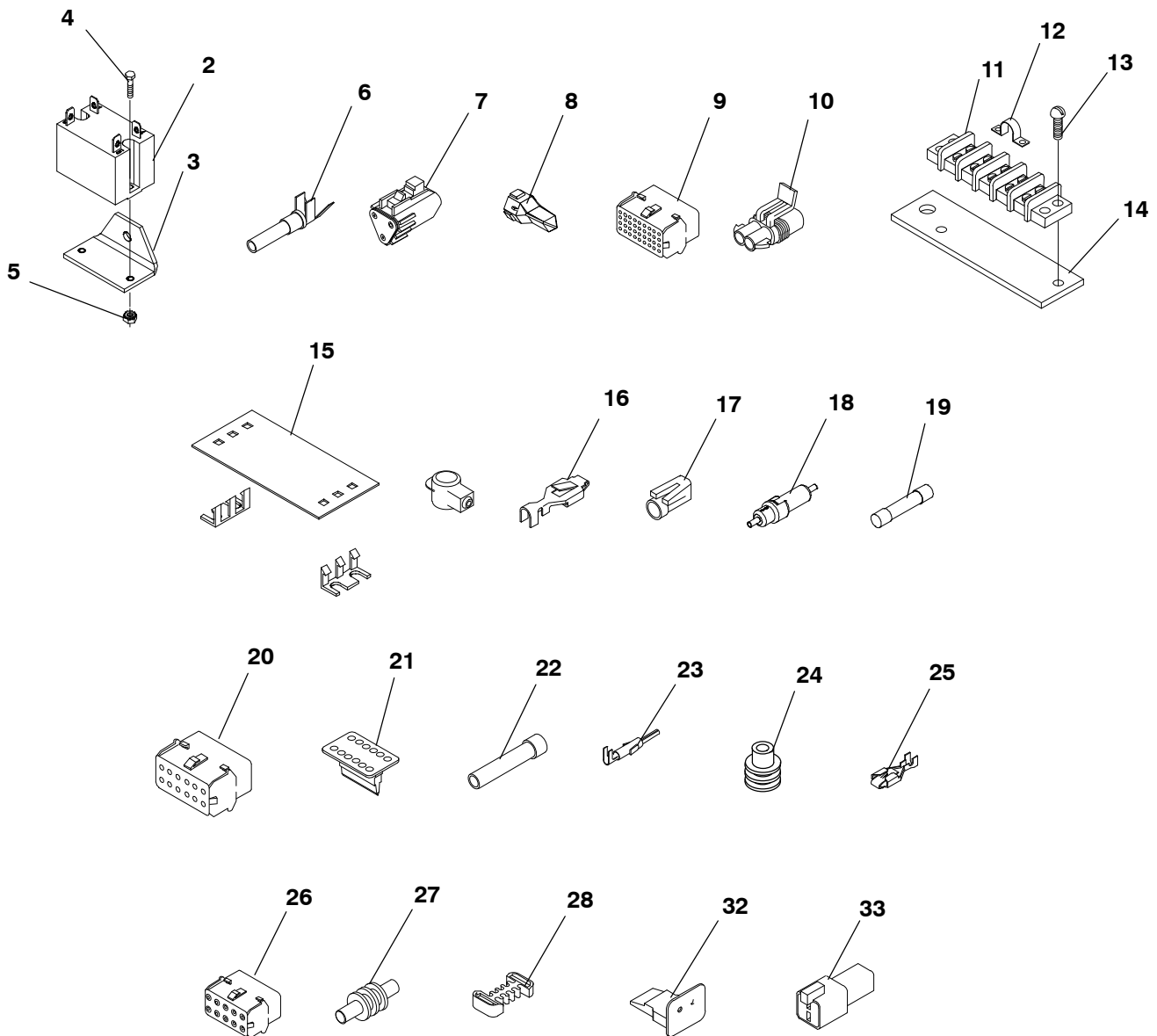
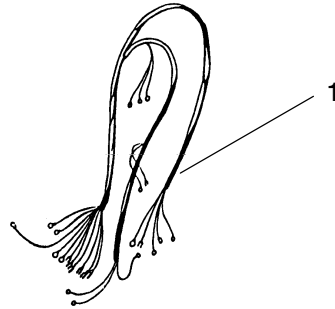
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	098-8155	1	Label, Warning

Wiring Harness
AC Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – AC Control (Includes Connector Plug and Contact Pins)	2	323–1523	1	Plug, Connector (24 Place)
	338–4185	1	Shunt	3	332–3790	9	Pin, Contact
	338–4180	1	PMG				

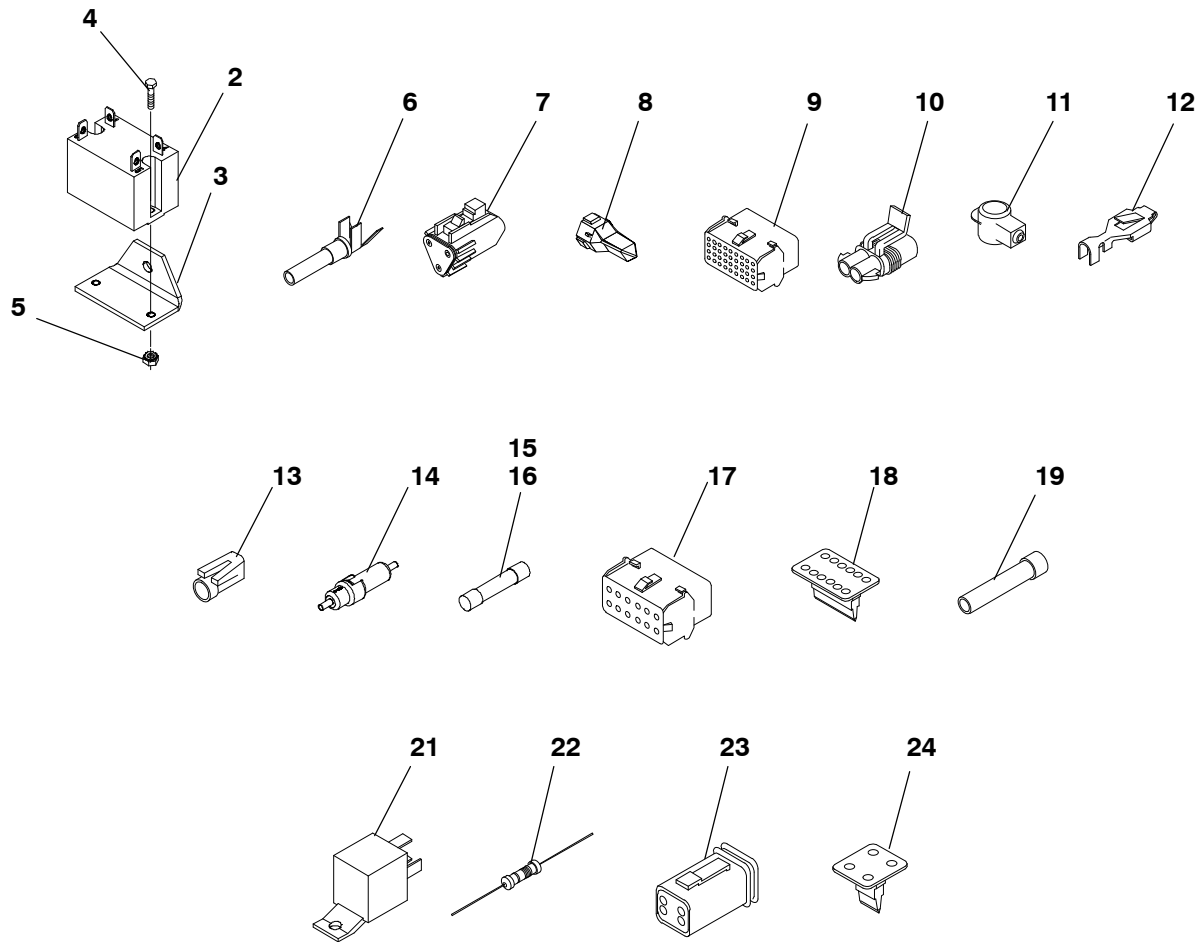
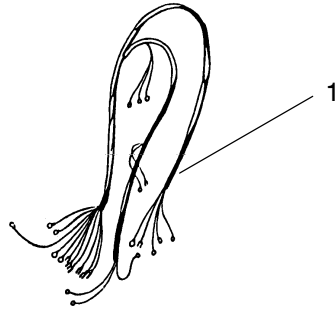
Engine Wiring Harness GGHG/GGHH (Spec E)



Engine Wiring Harness GGHG/GGHH (Spec E)

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

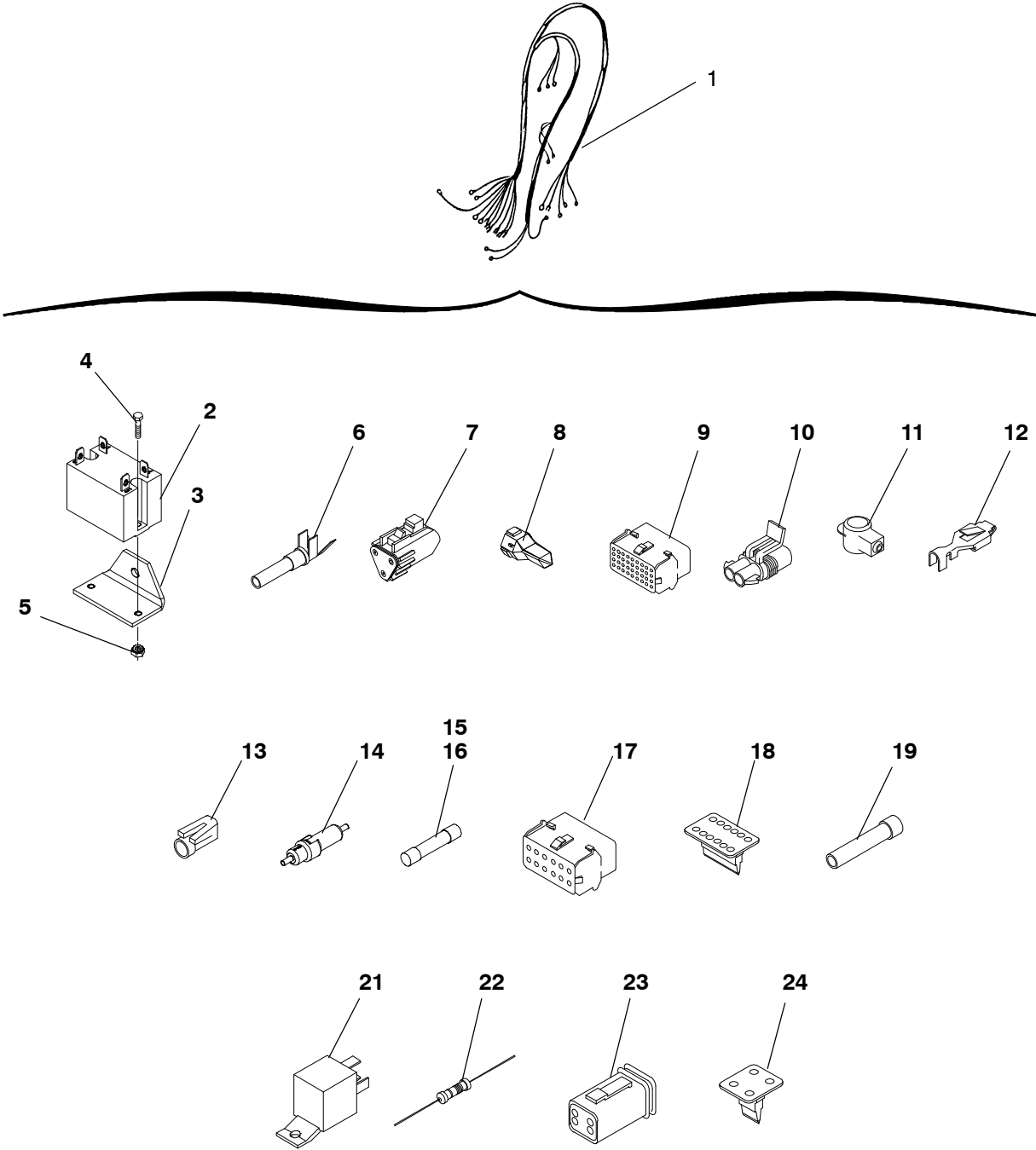
Engine Wiring Harness GGHG/GGHH (Spec F-G)



Engine Wiring Harness GGHG/GGHH (Spec F-G)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A028U421	1	Harness, Wiring – Engine to Control (Includes Parts Listed Below)	13	323-1666	2	Connector, Socketl (S7 & E1)
2	307-2968-03	3	Relay, Power (12V)	14	321-0371	2	Holder, Fuse
3	307-2982-02	3	Bracket, Relay	15	321-0372-06	1	Fuse (15 Amp)
4	812-0079	6	Screw (#8-32 x .5)	16	321-0372-07	1	Fuse (20 Amp)
5	870-0221	6	Nut, Hex – W/ET (#8-32)	17	323-1582	1	Plug – 12 Pin (A12)
6	323-1492	10	Socket, Contact (A12, P1, P8)	18	323-1583	1	Wedge, Plug (A12)
7	323-1493	1	Connector, Plug – 3 Pin	19	323-1591	9	Plug, Seal (A12)
8	323-1503	1	Wedge, Plug – 3 Pin	20	323-1818	2	Terminal, Socket (E2) (Not Illustrated)
9	323-1525	1	Connector – 36 Pin	21	307-2817-01	1	Relay (12V)
10	323-1755	1	Connector, Socket (E2)	22	350-0980	1	Resistor – 2W, 510Ω
11	416-1021-03	1	Boot	23	323-1546	1	Plug – 4 Pin
12	323-1667	6	Socket, Terminal (S7 & E1)	24	323-1548	1	Wedge, Plug – 4 Pin
				25	191-2176	1	Connector (P7) (Not Illustrated)

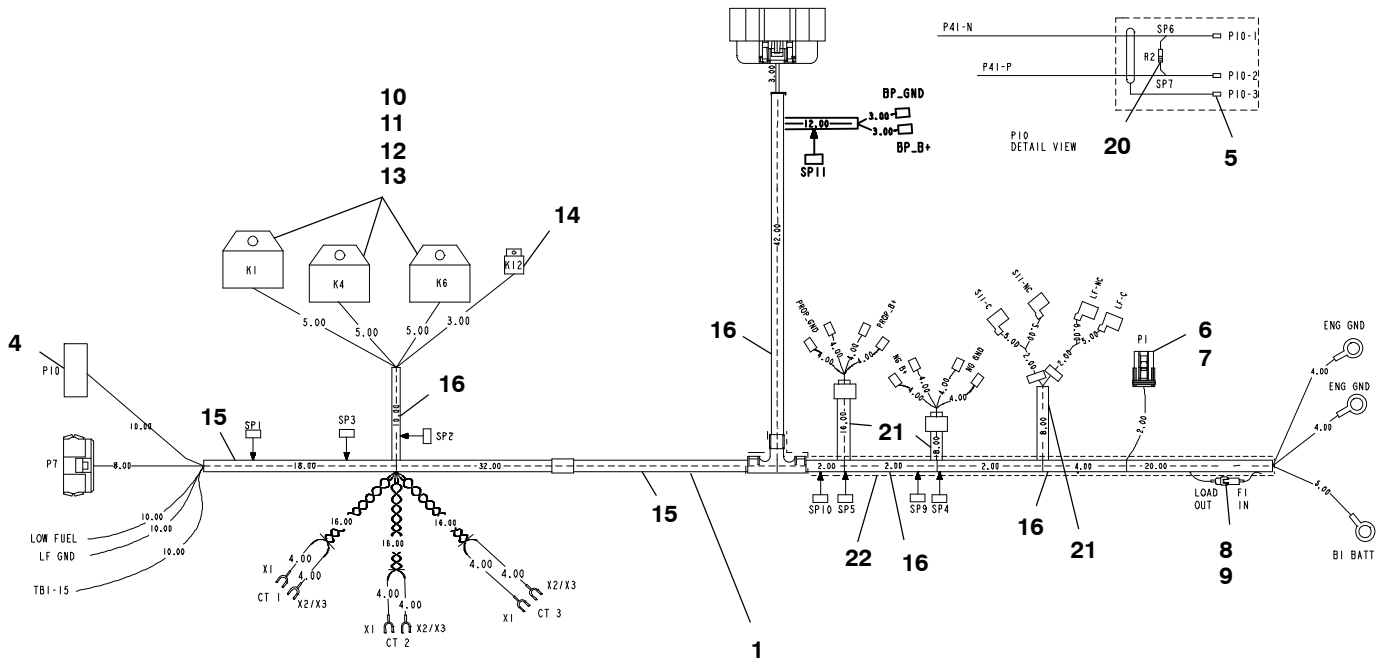
**Engine Wiring Harness
GGHG/GGH (Spec H-K)**



Engine Wiring Harness GGHG/GGH (Spec H-K)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A028U421	1	Harness, Wiring – Engine to Control (Includes Parts Listed Below)	13	323-1666	2	Connector, Socketl (S7 & E1)
2	307-2968-03	3	Relay, Power (12V)	14	321-0371	2	Holder, Fuse
3	307-2982-02	3	Bracket, Relay	15	321-0372-06	1	Fuse (15 Amp)
4	812-0079	6	Screw (#8-32 x .5)	16	321-0372-07	1	Fuse (20 Amp)
5	870-0221	6	Nut, Hex – W/ET (#8-32)	17	323-1582	2	Plug – 12 Pin (A12, A20)
6	323-1492	16	Socket, Contact (A12, P1, P8)	18	323-1583	2	Wedge, Plug (A12, A20)
7	323-1493	1	Connector, Plug – 3 Pin	19	323-1591	15	Plug, Seal (A12)
8	323-1503	1	Wedge, Plug – 3 Pin	20	323-1818	2	Terminal, Socket (E2) (Not Illustrated)
9	323-1525	1	Connector – 36 Pin (P7)	21	307-2817-01	1	Relay (12V)
10	323-1755	1	Connector, Socket (E2)	22	350-0980	1	Resistor – 2W, 510Ω
11	416-1021-03	1	Boot	23	323-1546	1	Plug – 4 Pin
12	323-1667	6	Socket, Terminal (S7 & E1)	24	323-1548	1	Wedge, Plug – 4 Pin
				25	191-2176	1	Connector (P7) (Not Illustrated)

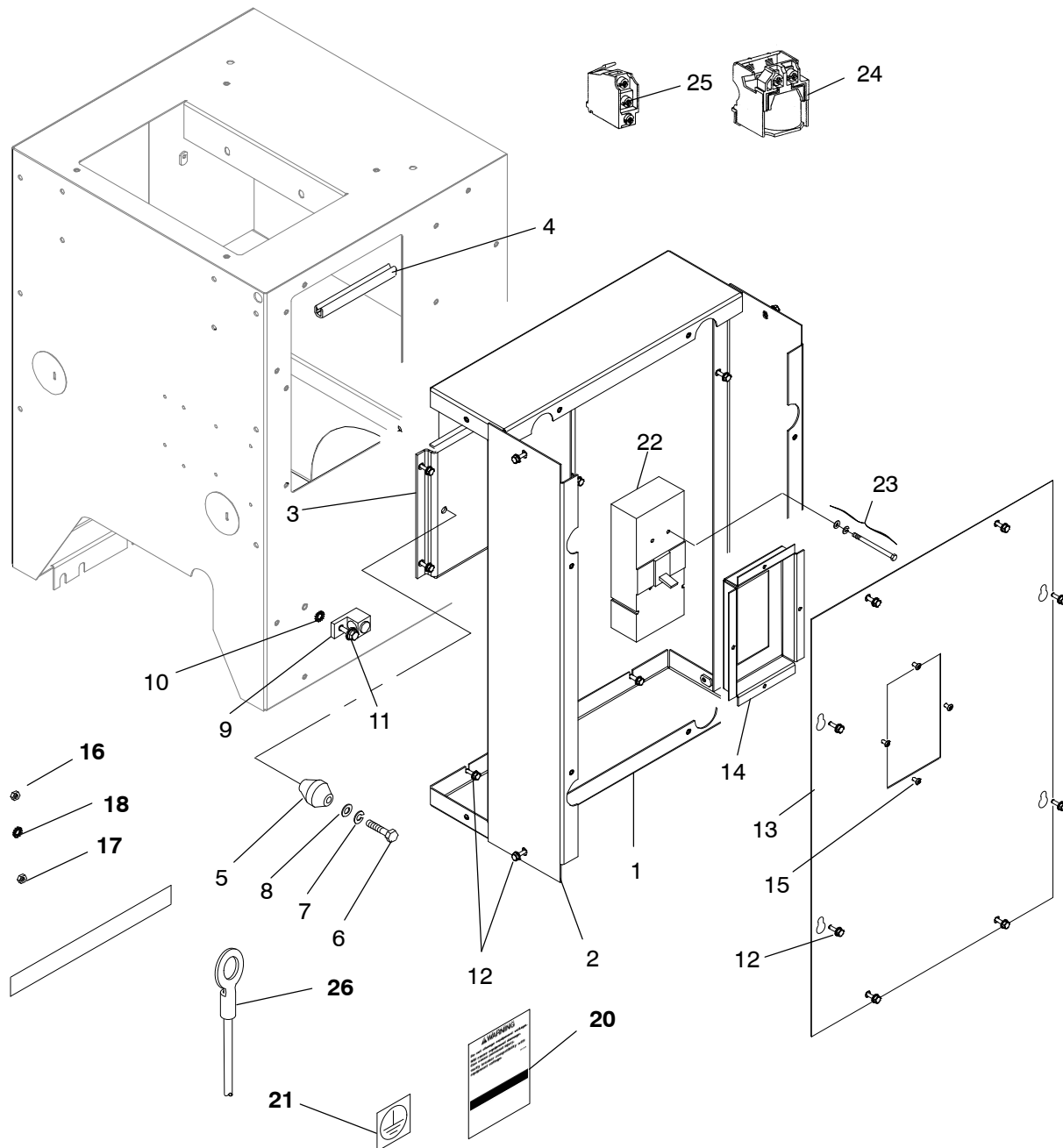
Engine Wiring Harness **GGHG/GGHH (Begin Spec L)** **GGHJ (Spec A)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A030N046	1	Harness, Wiring – Engine to Control (Includes Parts Listed Below)	11	307-2982-02	3	Bracket
2	334-1354	–	Cable, Shielded (Not Shown)	12	812-0079	6	Screw, Round Head
3	323-1525	1	Plug, Connection (Not Shown)	13	870-0221	6	Nut
4	323-2010	1	Connector, Plug	14	307-2817-01	1	Relay
5	323-2009	5	Contact, Socket	15	898-1195-04	–	Sleeve, Convoluted
6	323-1546	1	Plug, Pin	16	898-1195-03	–	Sleeve, Convoluted
7	323-1548	1	Wedge, Plug	17	332-3491-01	1	Terminal, Pin (Not Shown)
8	321-0371	1	Holder, Fuse	18	323-1492	3	Socket, Terminal (Not Shown)
9	321-0372-07	1	Fuse, Cartridge	19	416-1021-03	1	Boot (Not Shown)
10	307-2968-03	3	Relay, Power	20	351-1596-59	1	Resistor, Metal Oxide
				21	898-1195-02	–	Sleeve, Convoluted
				22	898-1371-08	–	Sleeve, Fiberglass

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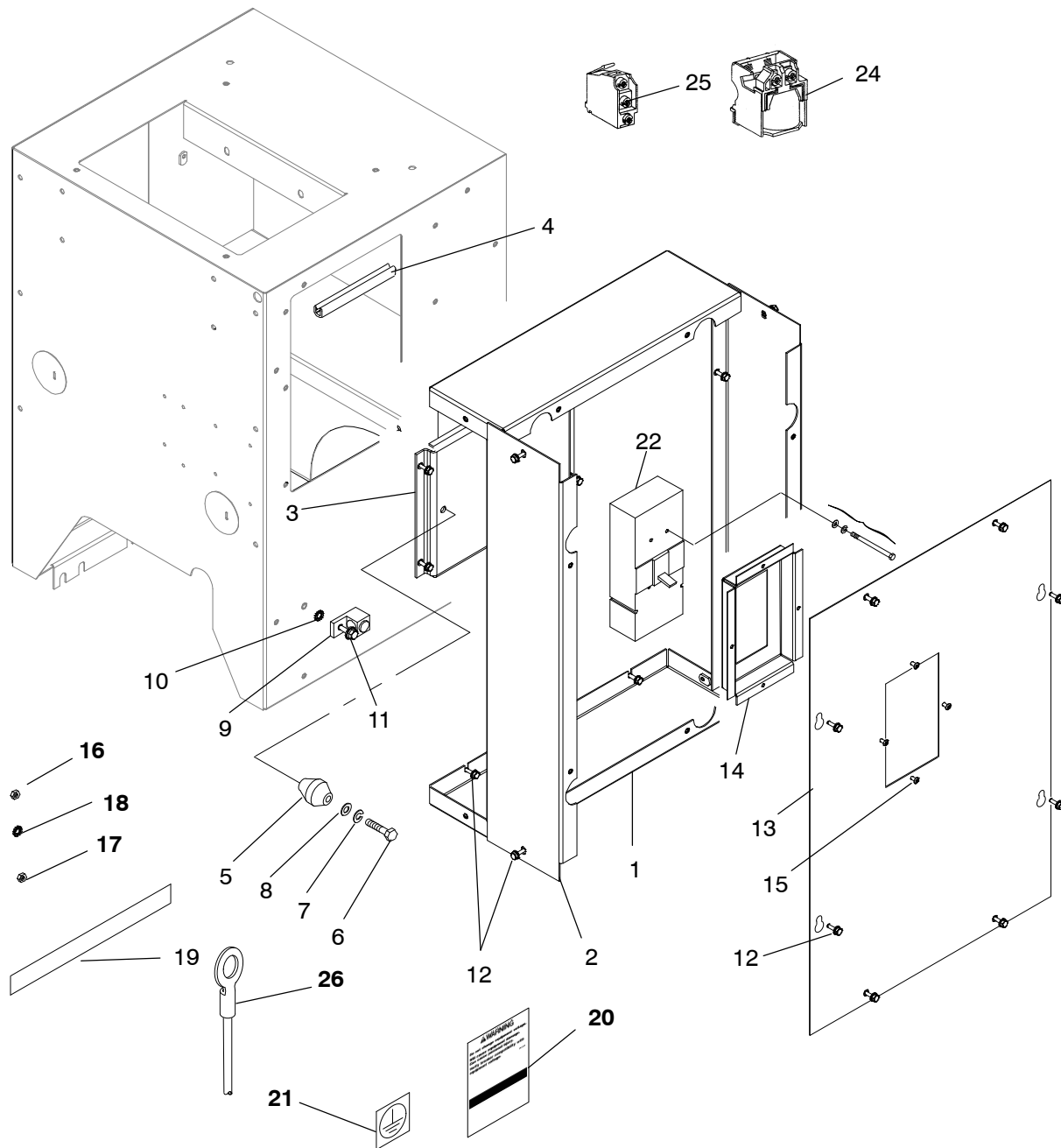
Circuit Breaker GGHG/GGHH (Begin Spec E)



Circuit Breaker GGHG/GGHH (Begin Spec E)

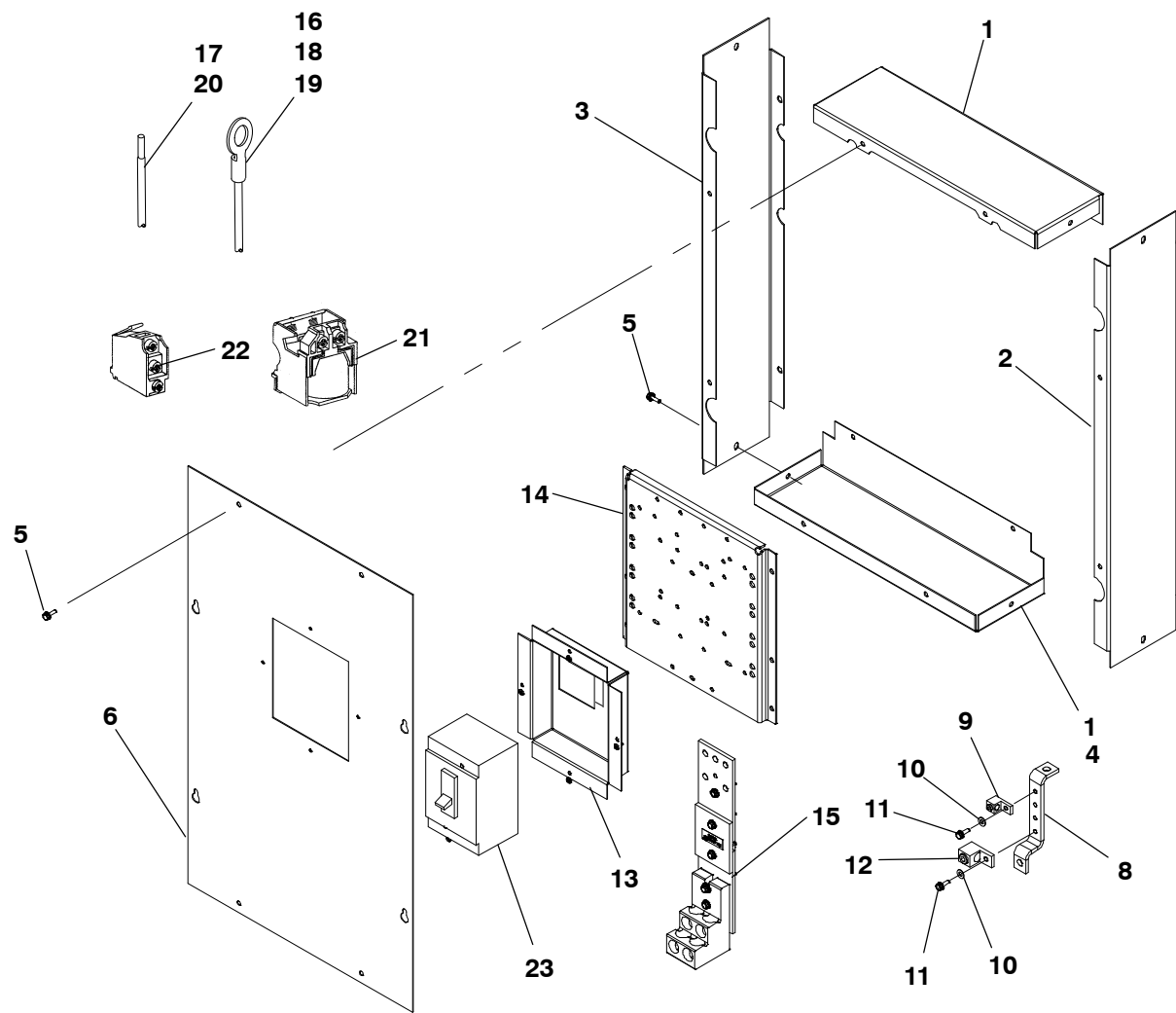
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3072	2	Panel, Box – Top and Bottom	16	860-0012	4	Nut, Hex (#12-24) Mounting
2	319-2978	2	Panel, Box – Side				Mounting Hardware Used On
3	319-5390-02	1	Bracket, Mounting – Circuit Breaker				320-1962-XX Circuit Breakers
4	508-0239	–	Edging – Bulk (Order By The Foot – 2 Feet Required)	18	856-0005	4	Washer, Lock – EIT (#12)
5	332-2744-07	1	*Standoff, Insulator				Mounting Hardware Used On
6	800-0048	2	*Screw, Cap – Hex Head (3/8-16 x 3/4")				320-1962-XX Circuit Breakers
7	850-0050	2	*Washer, Lock – Spring (3/8")	20	098-2304	1	Label, Warning
8	526-0029	1	*Washer, Flat (3/8")	21	098-6537	1	Label, Ground
9	332-1473	1	Lug, Solderless	* – Parts Used On Generator Sets With 2 Or 3 Pole Circuit Breakers			
10	856-0008	1	Washer, Lock – EIT (5/16")				
11	821-6003-02	1	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)	Continued...			
12	821-6002-03	24	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)				
13	319-3151	1	Cover, Box				
14			Cup				
	319-3242	1	1-1/2" x 3-1/2" Opening				
	319-3150	1	2-1/2" x 4-3/4" Opening				
	319-3240	1	3" x 3-15/16" Opening				
15	818-0231-02	4	Rivet, Pop				

Circuit Breaker GGHG/GGHH (Begin Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
22			Breaker, Circuit				Accessories, Circuit Breaker:
			2 Pole (UL)	23	320-1981-02	1	Trip, Shunt (12V)
	320-2238-07	1	100 Amp (240 Volts)	24	320-1981-01	2	Switch – Used as an Auxiliary Contact or Trip Alarm
	320-2238-06	1	125 Amp (240 Volts)				
	320-2238-05	1	150 Amp (240 Volts)				
	320-2238-04	1	175 Amp (240 Volts)	25			Lead (Quantity Used As Required)
	320-2238-03	1	200 Amp (240 Volts)				
	320-2238-02	1	225 Amp (240 Volts)		226-0893	1	3/8” Ring Terminal End to 1” Stripped End – No Markings (33”) (#1/0 Wire)
	320-2238-01	1	250 Amp (240 Volts)				
	320-1962-03	1	* 300 Amp (240 Volts)				
	320-1962-02	1	* 350 Amp (240 Volts)				
	320-1962-01	1	* 400 Amp (240 Volts)		226-3505-01	1	3/8” Ring Terminal End to 1” Stripped End – No Markings (30”) (#4 Wire)
			3 Pole (UL)				
	320-2238-14	1	100 Amp (240 Volts)				
	320-2238-13	1	125 Amp (240 Volts)				
	320-2238-12	1	150 Amp (240 Volts)		226-3505-03	1	3/8” Ring Terminal End to 3/8” Ring Terminal End – Marked “LO” (30”) (#4 Wire)
	320-2238-11	1	175 Amp (240 Volts)				
	320-2238-10	1	200 Amp (240 Volts)				
	320-2238-09	1	225 Amp (240 Volts)				
	320-2238-08	1	250 Amp (240 Volts)		226-3505-04	1	3/8” Ring Terminal End to 3/8” Ring Terminal End – Marked “LO” (30”) (#1/0 Wire)
	320-1962-06	1	* 300 Amp (240 Volts)				
	320-1962-05	1	* 350 Amp (240 Volts)				
	320-1962-04	1	* 400 Amp (240 Volts)				
			3 Pole (UL & IEC)				
	320-2346-19	1	40 Amp				
	320-2346-18	1	50 Amp	*	Includes Mounting Hardware		
	320-2346-17	1	60 Amp				
	320-2346-10	1	70 Amp				
	320-2346-09	1	80 Amp				
	320-2346-08	1	90 Amp				
	320-2346-07	1	100 Amp				
	320-2346-06	1	125 Amp				
	320-2346-05	1	150 Amp				
	320-1960-06	1	* 300 Amp (600/750 Volts)				
	320-1960-05	1	* 350 Amp (600/750 Volts)				
	320-1960-04	1	* 400 Amp (600/750 Volts)				
	320-1960-03	1	* 450 Amp (600/750 Volts)				
	320-1960-02	1	* 500 Amp (600/750 Volts)				
	320-1960-01	1	* 600 Amp (600/750 Volts)				
			4 Pole (IEC)				
	320-1960-10	1	* 320 Amp (750 Volts)				
	320-1960-09	1	* 400 Amp (750 Volts)				
	320-1960-08	1	* 500 Amp (750 Volts)				
	320-1960-07	1	* 630 Amp (750 Volts)				

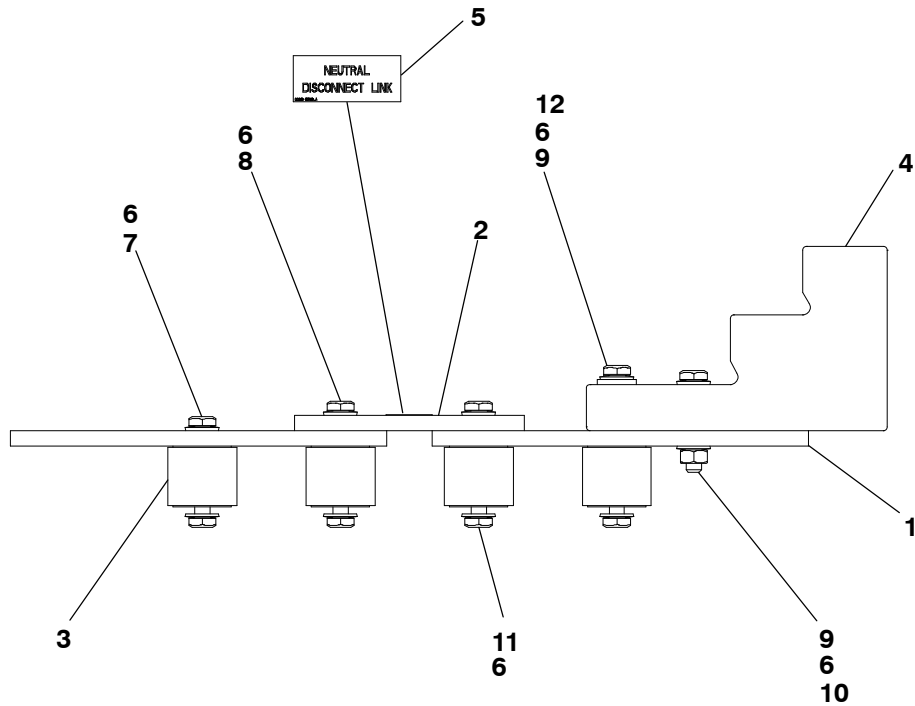
Circuit Breaker Box – Low Voltage GGHJ (Spec A)



Circuit Breaker Box – Low Voltage GGHJ (Spec A)

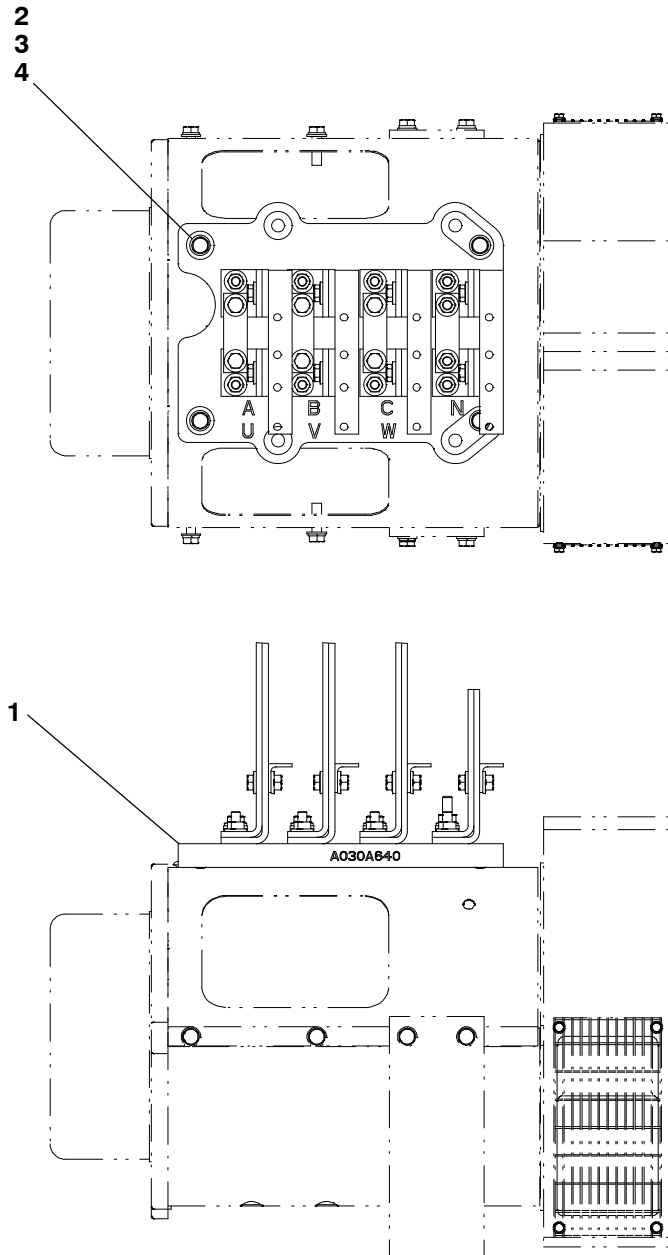
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Panel, Circuit Breaker Box	23			Breaker, Circuit
	A030D982	1	UC22				3 Pole (UL & IEC)
	A030D982	2	UC27		320-2346-22	1	15A (H Frame)
2	A032Y739	1	Panel, Circuit Breaker Box		320-2346-21	1	20A (H Frame)
3	A030G976	1	Panel, Circuit Breaker Box		320-2346-20	1	30A (H Frame)
4	A034W136	1	Panel, Circuit Breaker Box –		320-2346-19	1	40A (H Frame)
			UC22		320-2346-18	1	50A (H Frame)
5	821-6002-03 A/R		Screw, Hex Head		320-2346-17	1	60A (H Frame)
6		1	Panel, Circuit Breaker		320-2346-10	1	70A (H Frame)
	A034E046	1	Square-D Breaker		320-2346-09	1	80A (H Frame)
	A040T455	1	Merlin-Gerin Breaker		320-2346-08	1	90A (H Frame)
7	818-0231-02	4	Rivet, Pop		320-2346-07	1	100A (H Frame)
8	A040S777	1	Busbar, Ground		320-2346-06	1	125A (H Frame)
9	332-3647	3	Lug, Solderless		320-2346-05	1	150A (H Frame)
10	851-0027	4	Washer		320-2347-04	1	175A (J Frame)
11	800-2035	4	Screw, Hex Head		320-2347-03	1	200A (J Frame)
12	A034Z262	1	Lug, Solderless		320-2347-02	1	225A (J Frame)
13			Cup, Circuit Breaker		320-2347-01	1	250A (J Frame)
	A034E443	1	78mm x 94.1mm Opening		320-1960-06	1	300A (NSJ)
	A035C953	1	60mm x 87mm Opening		320-1960-05	1	350A (NSJ)
	A034E447	1	80.8mm x 87mm Opening		320-1960-04	1	400A (NSJ)
	A034E449	1	106mm x 145mm Opening		320-1960-03	1	450A (NSJ)
	A034E445	1	97.1mm x 123.5mm Opening		320-1960-02	1	500A (NSJ)
14	A030D977	1	Bracket, Mounting		320-1960-01	1	600A (NSJ)
15		1	Busbar, Neutral (See Page 198				2 Pole (UL)
			for Components)		320-2238-07	1	100A (QDL)
16	226-3505-03	1	Lead (#4)		320-2238-06	1	125A (QDL)
17	226-3505-01 A/R		Lead (#4)		320-2238-05	1	150A (QDL)
18	226-3505-04 A/R		Lead (1/0)		320-2238-04	1	175A (QDL)
19	226-0893	A/R	Lead (Phase 1/0)		320-2238-03	1	200A (QDL)
20	226-3505-13 A/R		Lead (2/0)		320-2238-02	1	225A (QDL)
			Accessories, Circuit Breaker:		320-2238-01	1	250A (QDL)
21	320-1981-02	1	Trip, Shunt (12V)		320-1962-03	1	300A (Q4)
22	320-1981-01	2	Switch – Used as an		320-1962-02	1	350A (Q4)
			Auxiliary Contact or Trip		320-1962-01	1	400A (Q4)
			Alarm				3 Pole (UL)
					320-2238-14	1	100A (QDL)
					320-2238-13	1	125A (QDL)
					320-2238-12	1	150A (QDL)
					320-2238-11	1	175A (QDL)
					320-2238-10	1	200A (QDL)
					320-2238-09	1	225A (QDL)
					320-2238-08	1	250A (QDL)
					320-1962-04	1	400A (Q4)

Busbar – Neutral GGHJ (Spec A)



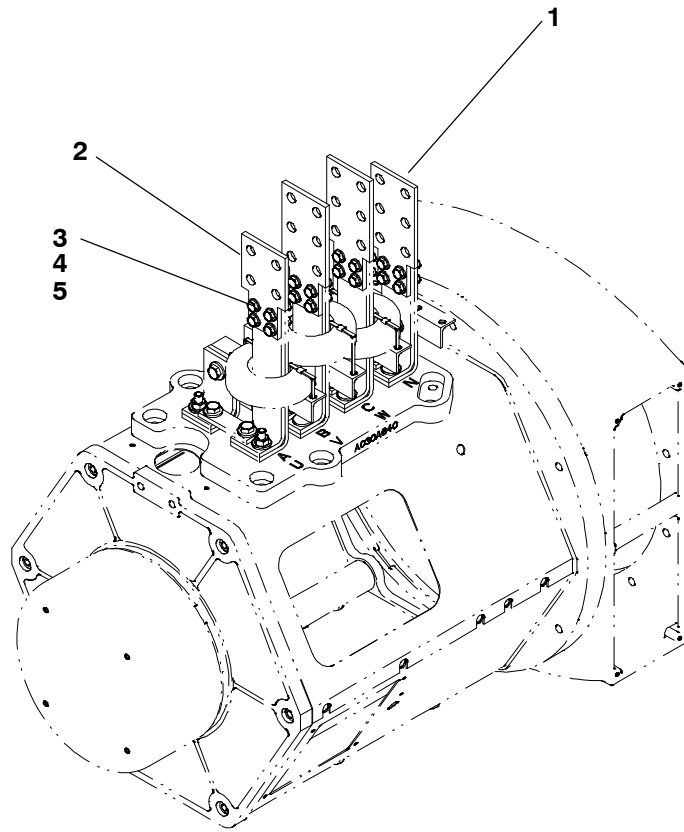
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A040Z195	2	Busbar, Neutral	7	800-0004	1	Screw, Hex Head
2	A040Z197	1	Busbar, Neutral	8	800-0006	2	Screw, Hex Head
3	332-3597	4	Standoff, Insulator	9	800-0009	2	Screw, Hex Head
4	332-1557	1	Lug, Neutral	10	862-0001	1	Nut, Hex
5	098-8268	1	Label, Information	11	800-0003	4	Screw, Hex Head
6	851-0027	10	Washer	12	526-0399-13	1	Washer, Flat

Alternator Busbar – UC27 GGHJ (Spec A)



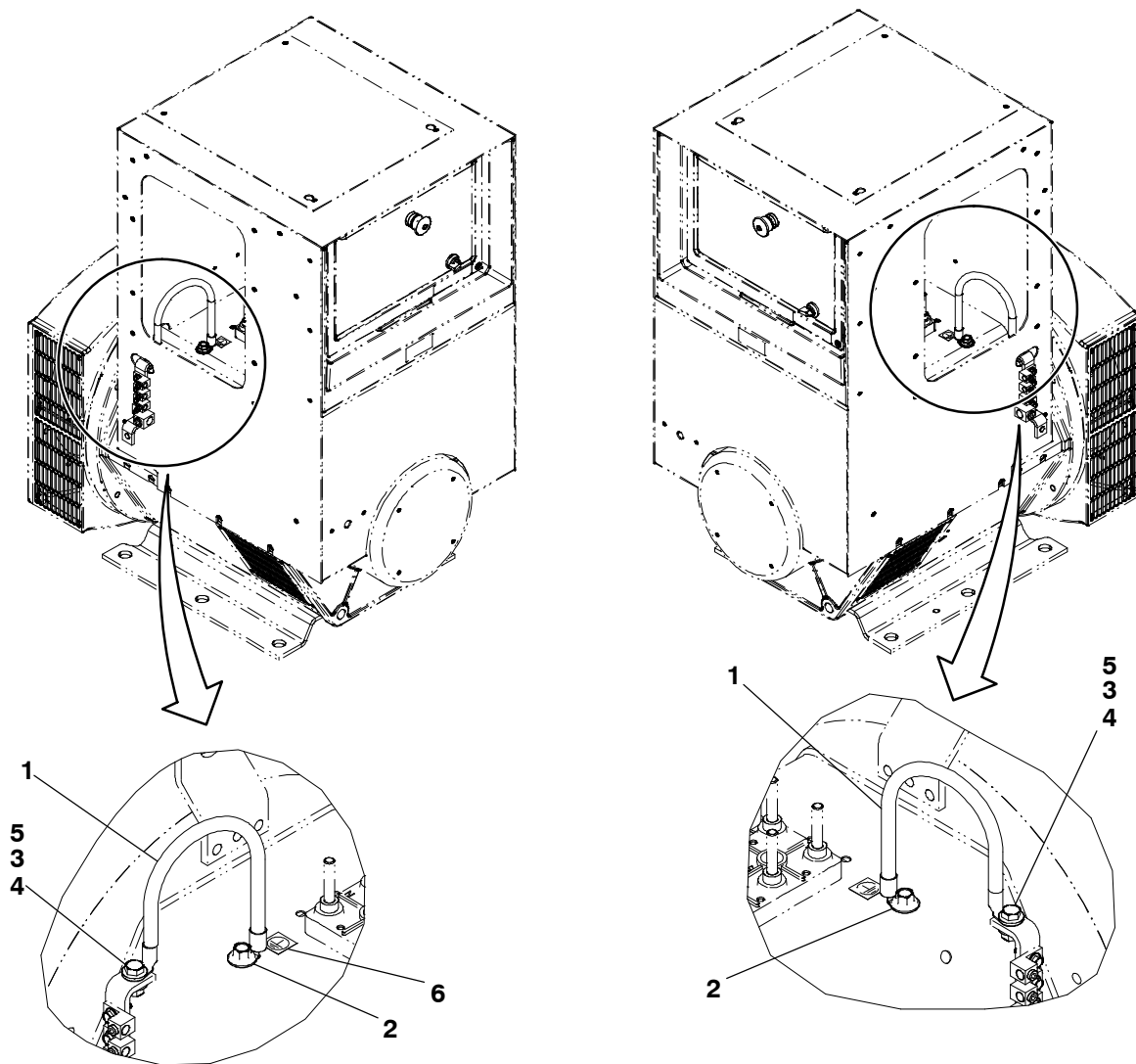
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A030H264	1	Box, Output	3	850-2012	4	Washer, Lock
2	526-2140	4	Washer, Flat	4	800-2115	4	Screw, Hex Head

Lug Busbar – UC27 GGHJ (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A030B492	3	Busbar, Lug Adapter	4	800-2059	16	Screw, Hex Head
2	A034S298	1	Busbar, Lug Adapter	5	860-2008	16	Nut
3	526-2100	32	Washer, Flat				

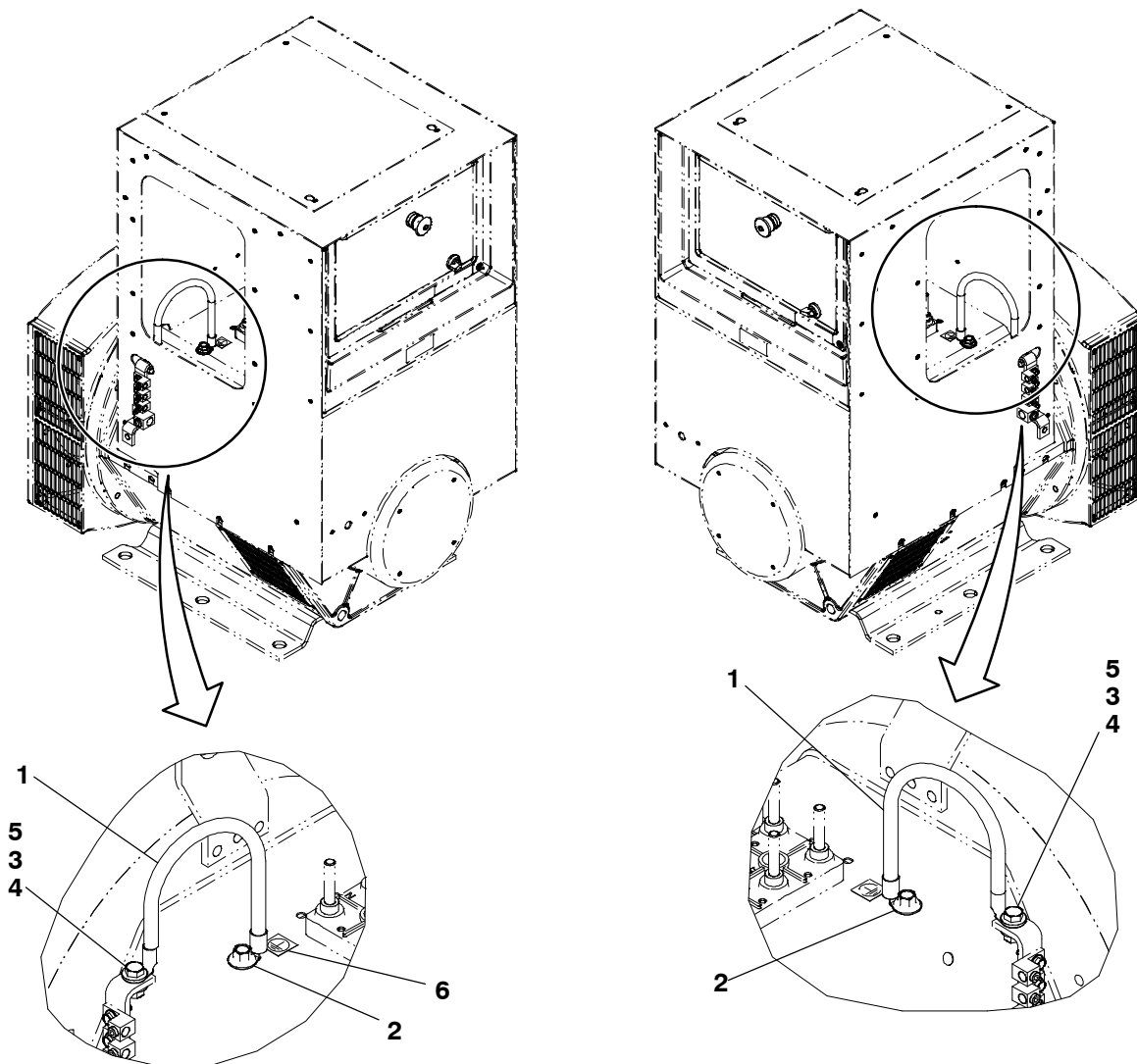
**Ground Strap – KP78, KU95
GGHJ (Spec A)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A054X457	2	Lead
2	0851-0048-03	2	Washer, Belleville (Use Existing M12 Fastener)
3	0851-0022	4	Washer

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	0860-2009	2	Nut
5	0800-2086	2	Screw, Hex Head
6	0098-6537	1	Label, Ground

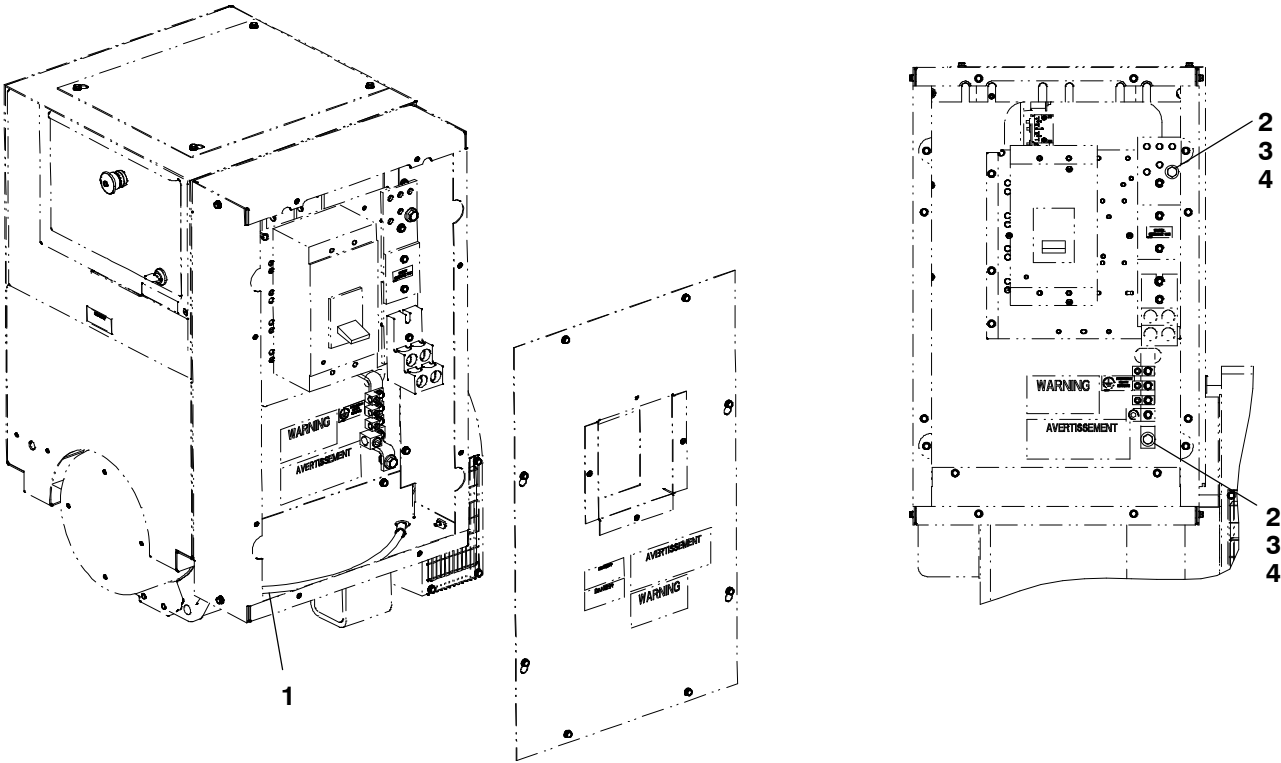
Ground Strap – KU93, KU94 GGHJ (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A054X457	1	Lead
2	0851-0048-03	1	Washer, Belleville (Use Existing M12 Fastener)
3	0851-0022	2	Washer

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	0860-2009	1	Nut
5	0800-2086	1	Screw, Hex Head
6	0098-6537	1	Label, Ground

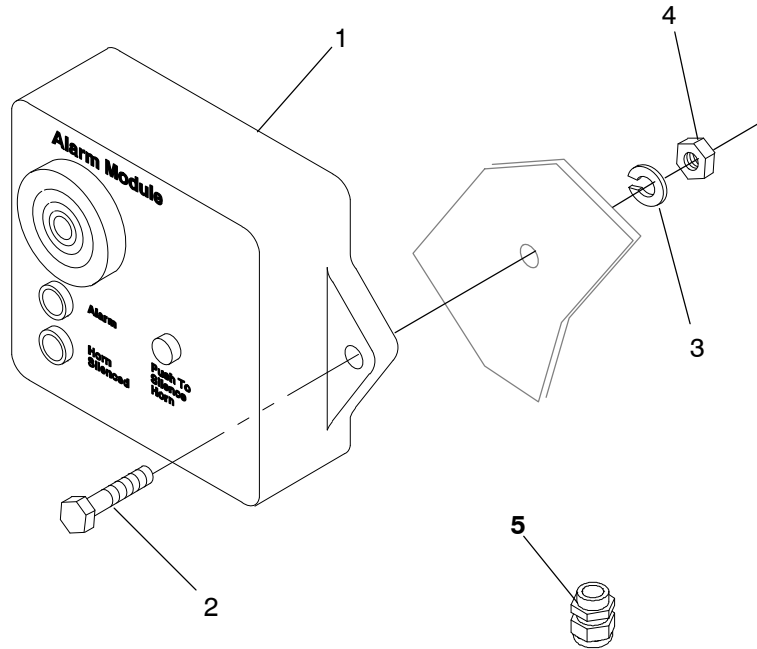
**Lead
GGHJ (Spec A)**



Right Hand Configuration Shown

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A034W365	1	Lead	3	851-0022	4	Washer
2	800-2086	2	Screw, Hex Head	4	860-2009	2	Nut

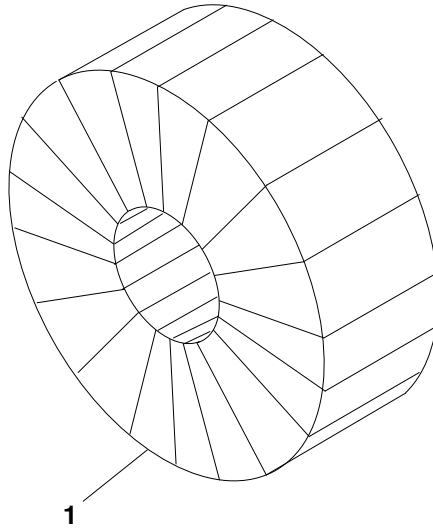
Alarm Module



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

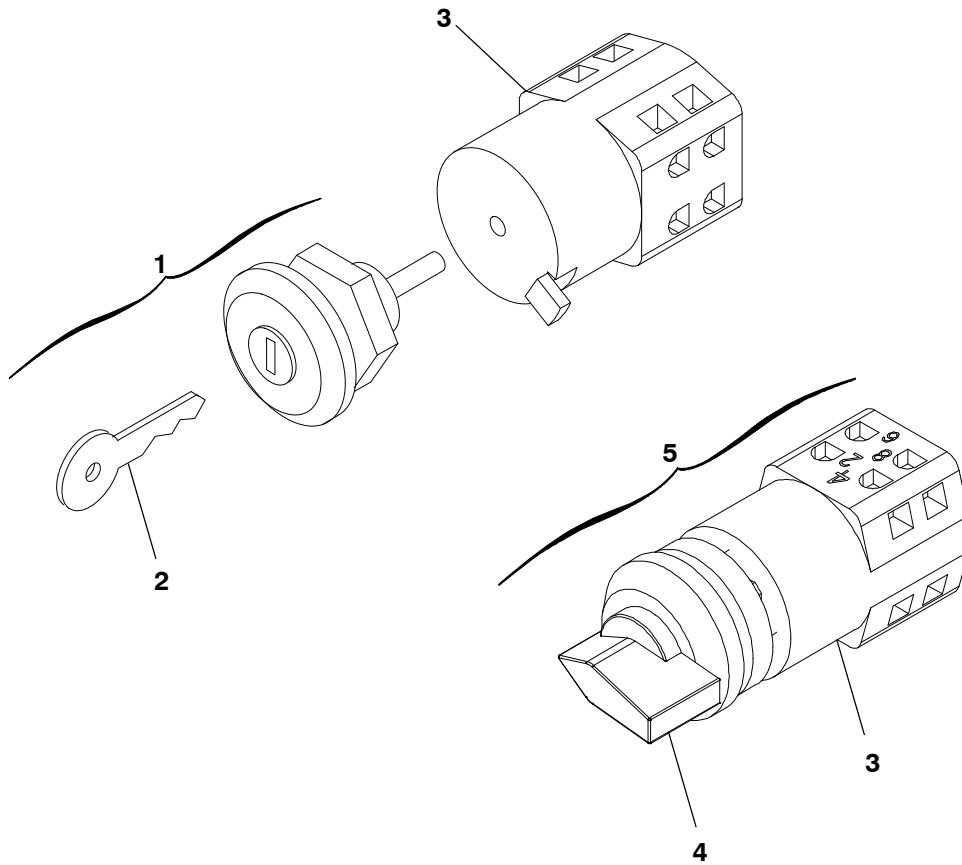
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	850-0040	2	Washer, Lock (1/4)
4	862-0001	2	Nut, Hex (1/4-20)
5	323-2003-01	1	Strain Relief

Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT1, CT2, CT3)				
	302-2057-09	3	345/1 or 690/1 Primary Ratio (12 Lead, 66-116kW 3Ph & 66-97kW 1 Ph)				
	302-2058-25	3	242/1 Primary Ratio (6 Lead, 47-81kW) or (600V, 58-129kW)				
	302-2057-10	2	394/1 or 788/1 Primary Ratio (4 Lead Alternator)				

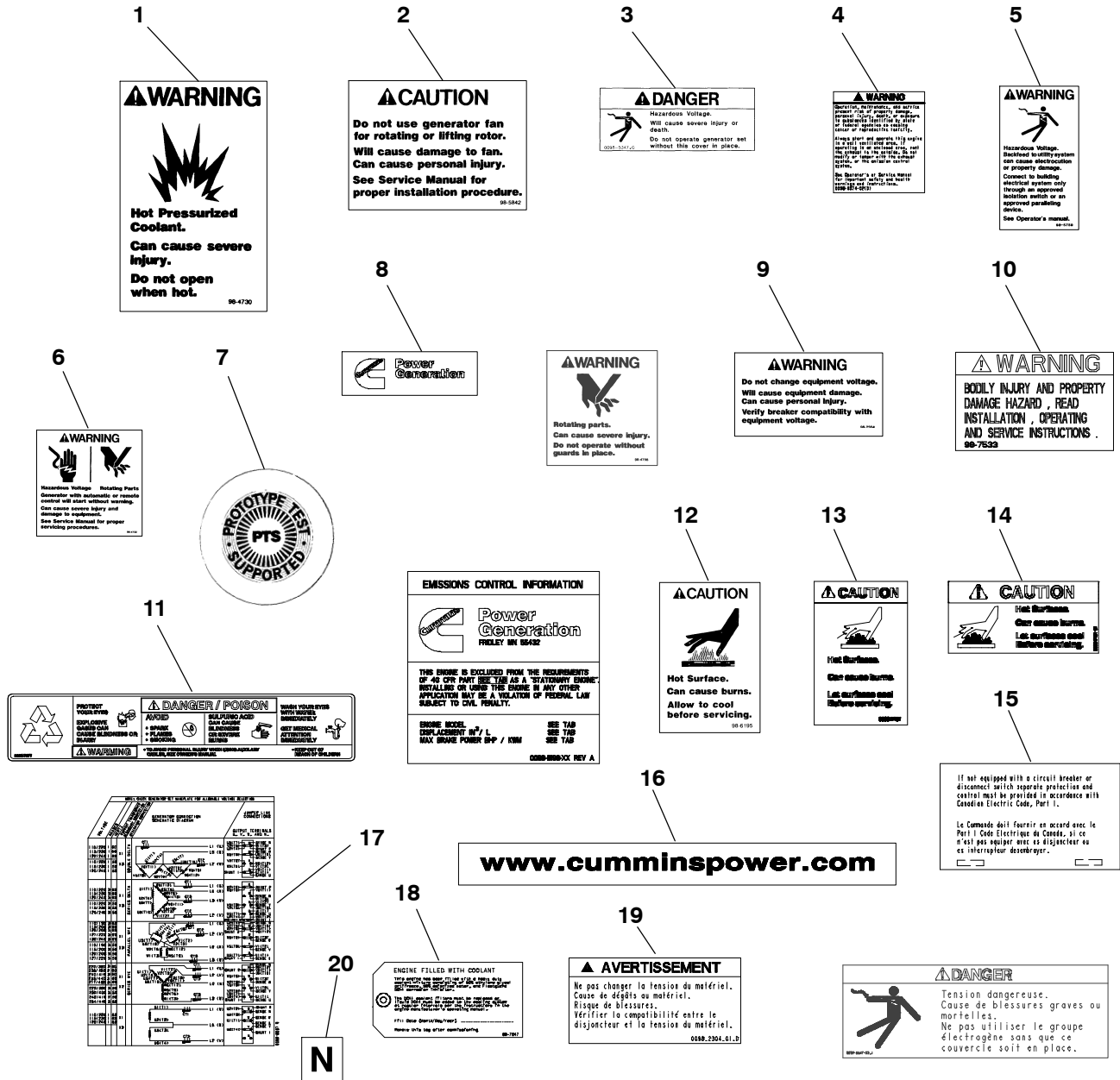
Operator Switch



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

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

Labels



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-4730	A/R	Label, Warning	10	098-7533	A/R	Label, Warning
2	098-5842	A/R	Label, Caution	11	098-7877	A/R	Label, Battery Warning
3	098-5347	A/R	Label, Danger	12	098-6195	A/R	Label, Caution
4	098-6074-02	A/R	Label, Warning	13	098-7451	A/R	Label, Caution
5	098-5759	A/R	Label, Warning	14	098-7451-01	A/R	Label, Caution
6	098-4732	A/R	Label, Warning	15	098-8445	1	Label, Information
7	098-4500	A/R	Label - Prototype Tested	16	098-8220	2	Label, Information
8			Label, Logo	17	098-8037	1	Label, Information
	098-7902-02	A/R	80mm x 248mm	18	098-7074	1	Tag, Waterfill
	098-7902-03	A/R	100mm x 310mm	19	098-2304-01	1	Label, Warning
9	098-2304	A/R	Label, Warning	20	098-5854-04	1	Label, Bus Marking (N)

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