

Parts Manual

Generator Set with Detector Control

GGHG (Spec A–D)

GGHH (Spec A–D)

MODEL IDENTIFICATION

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

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

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

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



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



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



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

PRODUCT SAFETY PRECAUTIONS



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



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



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



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

Introduction

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

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

Replacement Engine

Cummins Power Generation Generator Model	Ford Engine Model
GGHG, GGHH	WSG10681-6005-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

– Broad range reconnectible

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Abbreviations

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

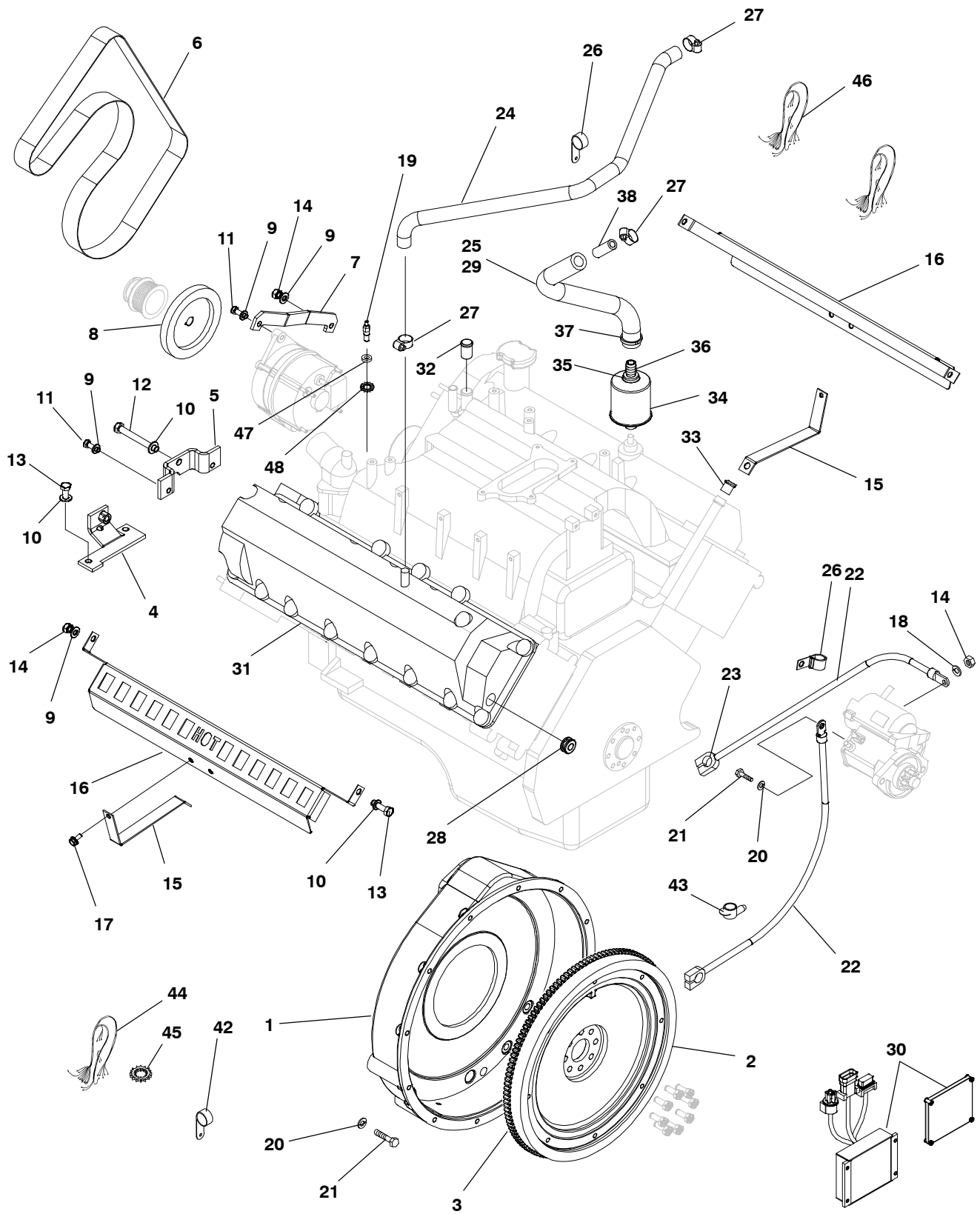
AC	Alternating Current	mm	Millimeter
Amp	Ampere	MOH	Mobile Off Highway
A/R	As Required	NFS	Not For Sale
AVR	Automatic Voltage Regulator	NPT	National Pipe Thread
AWG	American Wire Gauge	OD	Outside Diameter
Deg	Degree	oz.	Ounce
DC	Direct Current	PMG	Permanent Magnet Generator
EFC	Electronic Fuel Control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

Paint and Thread Sealant

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

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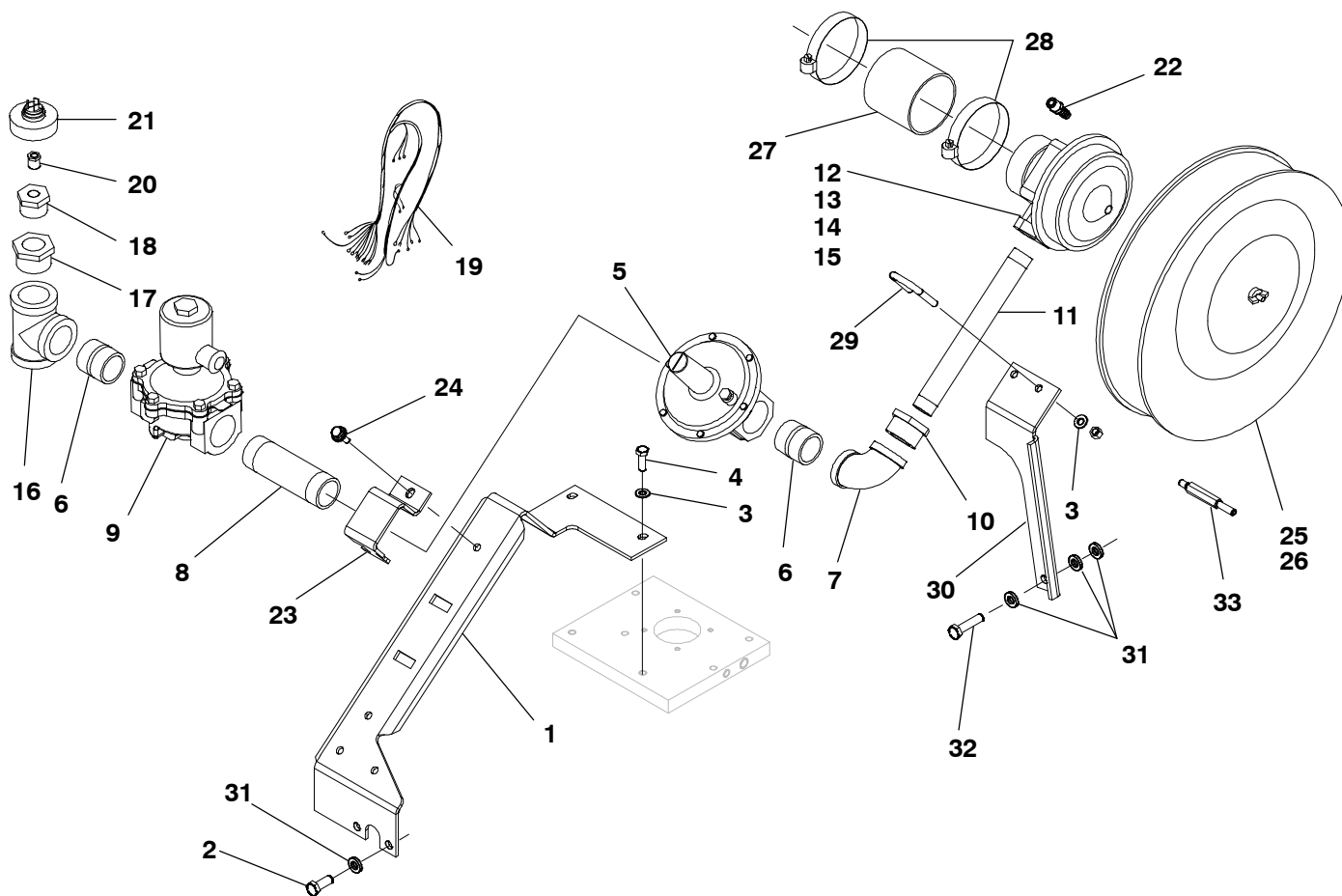
External Engine Parts



External Engine Parts

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	231-0394-02	1	Adapter, Generator	27	503-0183	3	Clamp, Hose
2	104-1971	1	Flywheel (Includes Ring Gear)	28	508-1156	1	Grommet
3	104-1949	1	Gear, Ring	29	503-2235	1	Insulation, Hose
4	191-2322-02	1	Bracket, Alternator – Rear	30			Module, Ignition
5	191-2280-02	1	Bracket, Alternator – Front		166-0871-01	1	Spec A-C
6			Belt, Serpentine		166-0890-02	1	Begin Spec D (V10 Turbo)
	511-0161-18	1	8 Groove – Spec A	31	110-3938	1	Cover, Rocker
	511-0161-21	1	6 Groove – Begin Spec B	32	132-0412	1	Cap, Heater Tube (3/4")
7	191-2281-02	1	Bracket, Alternator	33	132-0331	1	Cap, Heater Tube (5/8")
8	191-1981	1	Fan, Alternator	34	123-2177-05	1	Separator, Oil
9	526-2100	6	Washer, Flat (M8)	35	508-1161	1	Grommet
10	526-2120	5	Washer, Flat (M10)	36	505-1601-02	1	Fitting, Hose
11	800-2058	3	Screw, Cap – Hex Head (M8 x 1.25 x 25)	37	332-0941	1	Tie, Cable
12	800-2097	1	Screw, Cap – Hex Head (M10 x 1.5 x 80)	38	503-2239	1	Adapter, Hose
13	800-2086	4	Screw, Cap – Hex Head (M10 x 1.5 x 35)	39	130-5258	1	Thermostat – 185°F (Ford Part Number YC22-8575-BA) (Not Illustrated)
14	860-2008	5	Nut, Hex (M8 x 1.25)	40		1	Thermostat – 192°F (Ford Part Number YC22-8575-AA) (Optional) (Not Illustrated)
15	154-3107-02	2	Strap, Guard – Manifold				
16	154-3100-02	2	Guard, Manifold	41	167-1639	A/R	Plug, Spark (Ford Part Number AGSF-22-FM1) (.035 Gap) (Not Illustrated)
17	821-6002-02	3	Screw, Hex Head (M6 x 1.0 x 12)				
18	850-2008	2	Washer, Lock – Split (M8)	42	518-0702	2	Clamp, J
19	193-0318	1	Sender, Water Temperature	43	416-1084	1	Boot, Starter – Red
20	850-2010	7	Washer, Lock – Split (M10)	44	338-4210	1	Harness, Jumper
21	800-2088	7	Screw, Cap – Hex Head (M10 x 1.5 x 35)	45	856-0006	1	Washer, Lock – W/EIT (1/4)
				46			Harness, Ignition
22	416-0549	2	Cable, Battery		166-0873	1	Spec A-C
23	416-1019	1	Boot, Battery – Red		338-4335	1	Begin Spec D
24	503-2223	1	Hose, Breather	47	856-0003	1	Washer, Lock – W/EIT (#10)
25	503-2233	1	Hose, Crank Case – Vent	48	526-0008	1	Washer, Flat (#10)
26	332-2634	2	Clamp, J				

Fuel System Natural Gas

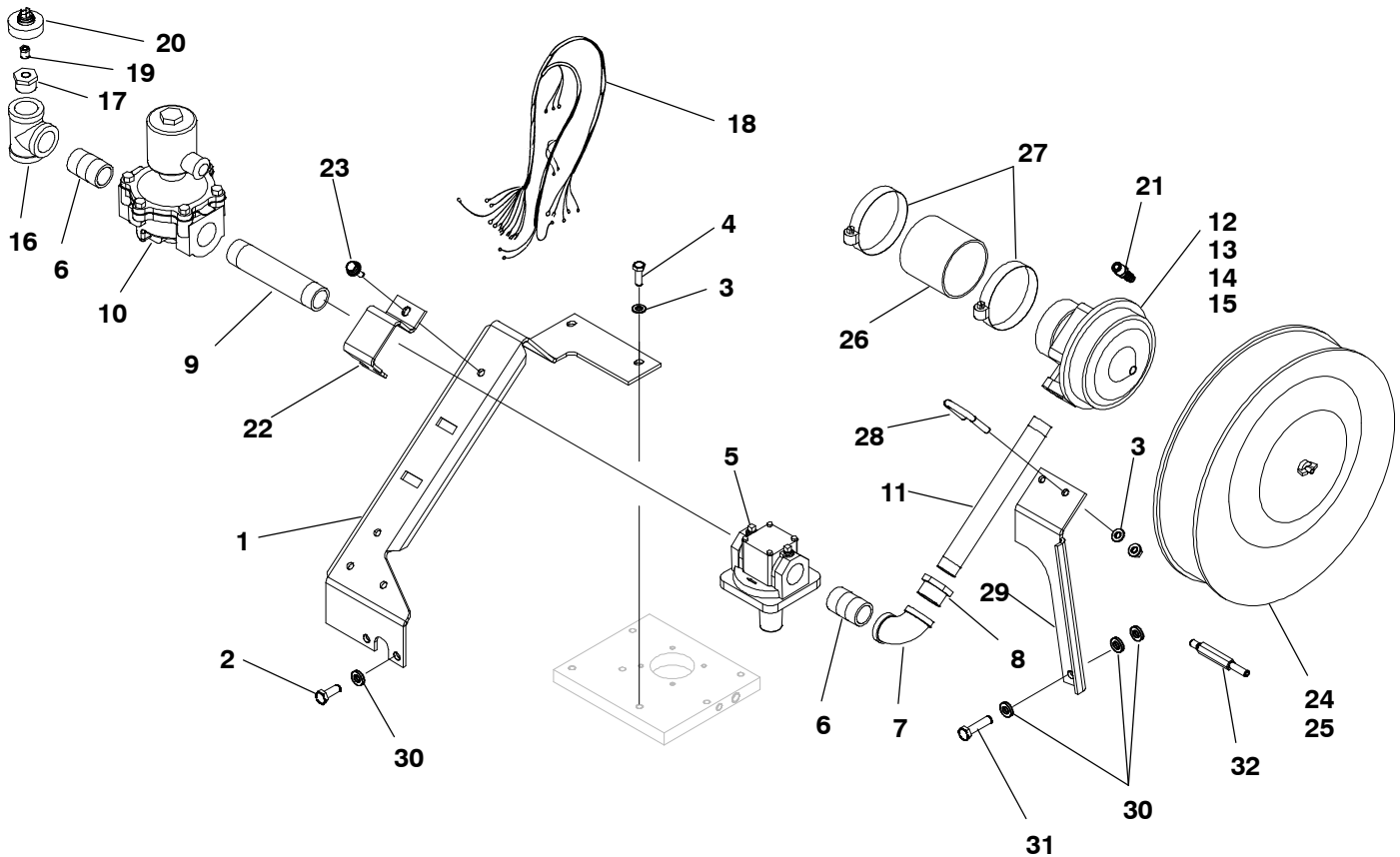


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1164-02	1	Bracket, Fuel System Mounting	18	505-0802	1	# Bushing, Reducer (1.00 x 1/4)
2	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	19	338-3740-01	1	# Harness, Fuel Alarm
3	526-2100	4	Washer, Flat (M8)	20	505-0007	1	# Bushing, Reducer (1/4 x 1/8)
4	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	21	309-0669	1	# Switch, Low Pressure
5	148-1015	1	Regulator, Natural Gas	22	502-1218	1	Connector, Hose
6	505-0177	1	Nipple, Pipe (1-1/4 x 1.63)	23	148-1089	1	Clamp, Fuel System (1.25)
	505-0177	2	Fuel Systems Without Pressure Switch	24	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 20)
	505-0177	2	Fuel Systems With Pressure Switch	25	140-3161	1	Cleaner, Air (Includes Stud and Wing Nut)
7	505-0042	1	Elbow, Pipe	26	140-3151	1	Element, Replacement – Air Cleaner
8	505-0157	1	Nipple, Pipe (1-1/4 x 5.00)	27	148-1181	1	Hose, Mixer Adapter
9	307-2885	1	Valve, Solenoid	28	503-1870-05	2	Clamp, Hose
10	505-0297	1	Bushing, Reducer (1.25 x .75)	29	155-1256	1	Clamp, Muffler (1.50")
11	505-0268	1	Nipple, Pipe (3/4 x 9.00)	30	148-1166-02	1	Bracket, Fuel System – Support
12	148-1174	1	Mixer (Includes Parts Marked *)	31	526-0174	5	Washer, Flat
13	148-1173-02	1	* Adapter, Hose	32	800-2089	1	Screw, Cap – Hex Head (M10 x 1.5 x 40)
14	140-3246	1	* G1-73 Gasket	33	520-1030	1	Stud – Air Cleaner
15	145-0540	1	* G1-21 Gasket				
16	505-0249	1	# Tee, Pipe				
17	505-0023	1	# Bushing, Reducer (1-1/4 x 1.00)				

* – Parts Included with 148-1174 Mixer

– Parts Included with Fuel Systems With Pressure Switch

Fuel System Propane Vapor Withdrawl Spec A-B

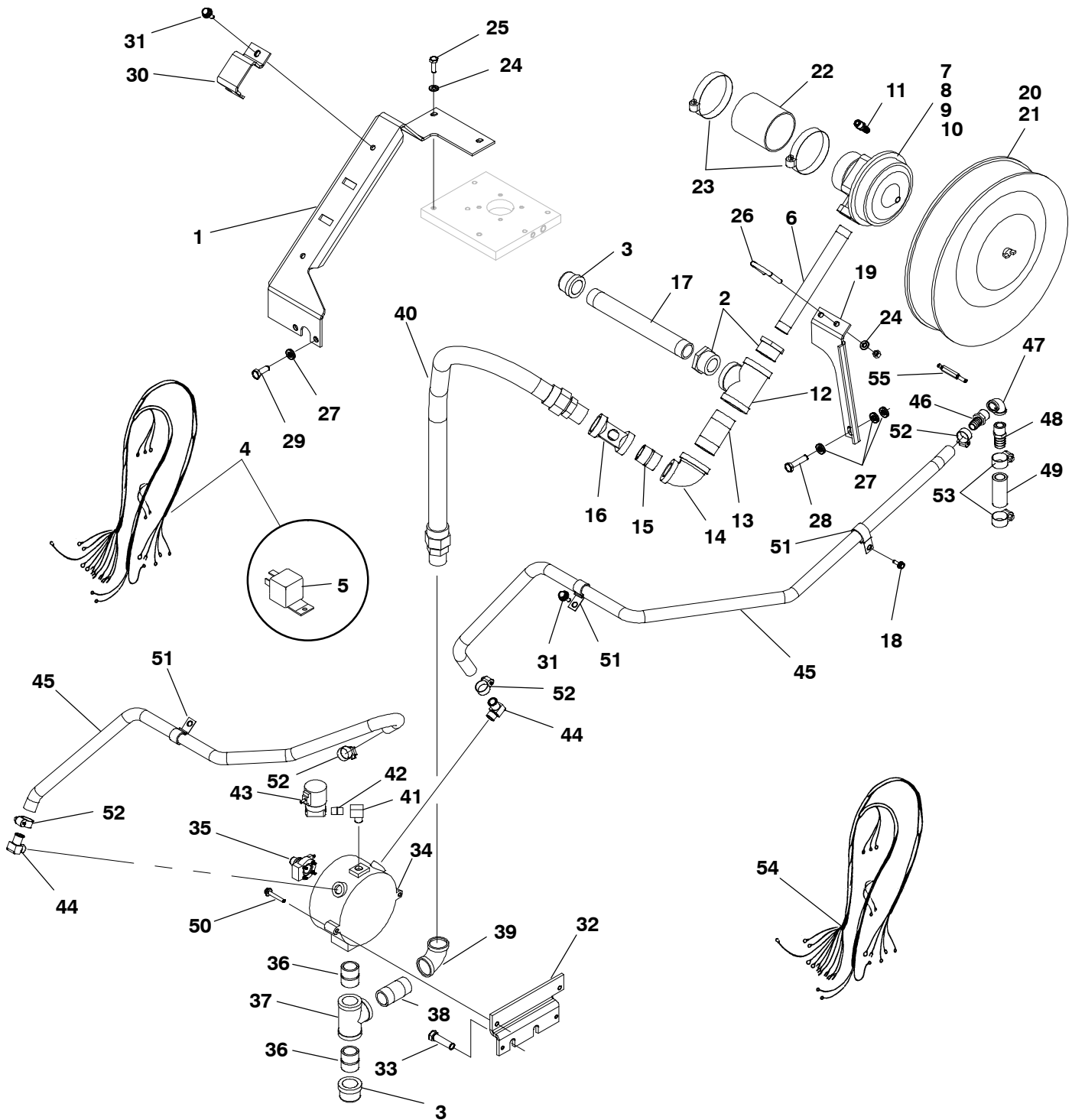


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1164-02	1	Bracket, Fuel System Mounting	18	338-3740-01	1	# Harness, Fuel Alarm
2	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	19	505-0007	1	# Bushing, Reducer (1/4 x 1/8)
3	526-2100	4	Washer, Flat (M8)	20	309-0669	1	# Switch, Low Pressure
4	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	21	502-1218	1	Connector, Hose
5	148-0636	1	Regulator, Propane Vapor	22	148-1089	1	Clamp, Fuel System (1.25)
6	505-0107	1	Nipple, Pipe (1.00 x 2.00) Fuel Systems Without Pressure Switch	23	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 20)
	505-0107	2	Nipple, Pipe (1.00 x 2.00) Fuel Systems With Pressure Switch	24	140-3161	1	Cleaner, Air (Includes Stud and Wing Nut)
7	505-0041	1	Elbow, Pipe	25	140-3151	1	Element, Replacement – Air Cleaner
8	505-0129	1	Bushing, Reducer (1.00 x .75)	26	148-1181	1	Hose, Mixer Adapter
9	505-0090	1	Nipple, Pipe (1.00 x 6.00)	27	503-1870-05	2	Clamp, Hose
10	307-2884	1	Valve, Solenoid	28	155-1256	1	Clamp, Muffler (1.50")
11	505-0268	1	Nipple, Pipe (3/4 x 9.00)	29	148-1166-02	1	Bracket, Fuel System – Support
12	148-1174	1	Mixer (Includes Parts Marked *)	30	526-0174	5	Washer, Flat
13	148-1173-02	1	* Adapter, Hose	31	800-2089	1	Screw, Cap – Hex Head (M10 x 1.5 x 40)
14	140-3246	1	* G1-73 Gasket	32	520-1030	1	Stud – Air Cleaner
15	145-0540	1	* G1-21 Gasket				
16	505-0304	1	# Tee, Pipe				
17	505-0802	1	# Bushing, Reducer (1.00 x 1/4)				

* – Parts Included with 148-1174 Mixer

– Parts Included with Fuel Systems With Pressure Switch

Fuel System Propane Liquid Withdrawl Spec A-B

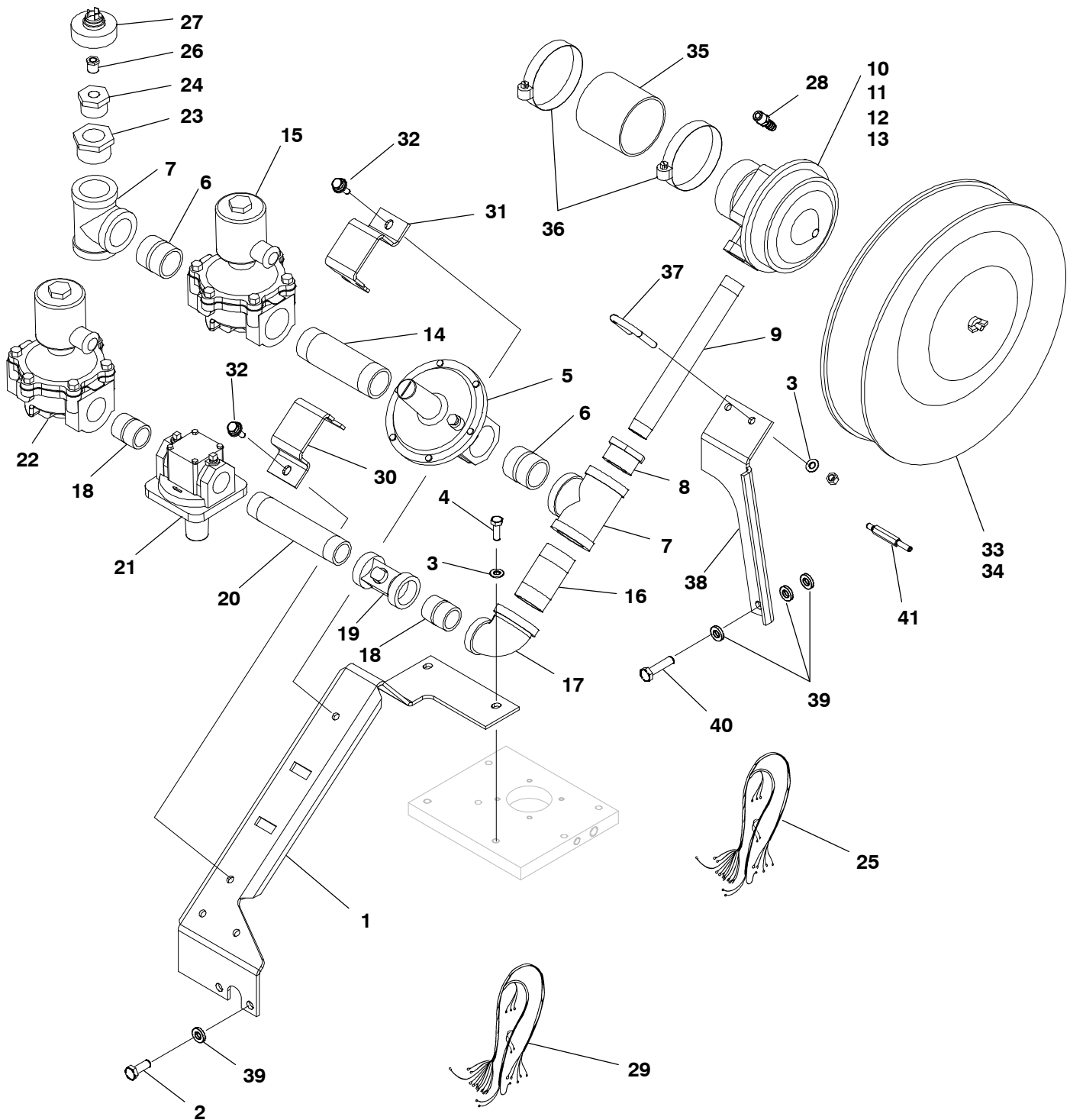


Fuel System Propane Liquid Withdrawl Spec A-B

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	30	148-1090	1	Clamp, Fuel System (1.00)
2	505-0297	2	Reducer, Bushing – Pipe (1.25 x .75)	31	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 20)
3	505-0479	2	Cap, Pipe (1.00)	32	148-1148-02	1	Bracket, Converter
4	338-3816-01	1	Harness, Wiring – Dual Fuel (Includes Relay)	33	800-2115	2	Screw, Cap – Hex Head (M12 x 1.75 x 45) (Genset Mounted Converter Only)
5	307-2817-01	1	Relay (12 Volt)	34	148-0625	1	Converter, Gas
6	505-0268	1	Nipple, Pipe (3/4 x 9.00)	35	148-1152	1	Solenoid, Primer
7	148-1174	1	Mixer (Includes Parts Marked *)	36	505-0004	2	Nipple, Pipe (1 x 1.50)
8	148-1173-02	1	* Adapter, Hose	37	505-0304	1	Tee, Pipe
9	140-3246	1	* G1-73 Gasket	38	505-0086	1	Nipple, Pipe (1 x 2.50)
10	145-0540	1	* G1-21 Gasket	39	505-0041	1	Elbow, Pipe
11	502-1218	1	Connector, Hose	40	501-0630	1	Hose
12	505-0249	1	Tee, Pipe	41	502-0054	1	Elbow, Pipe – Street
13	505-0258	1	Nipple, Pipe (1-1/4 x 3.00)	42	505-0099	1	Nipple, Pipe (1/4 x .88)
14	505-0473	1	Elbow, Reducer – 90° (1 x 1.25)	43	307-0268-01	1	Valve, Solenoid
15	505-0004	1	Nipple, Pipe (1 x 1.50)	44	502-0942	2	Elbow, Hose – 90°
16	148-0626	1	Valve, Load Adjusting	45	503-1988	–	Hose – Bulk (Order by the Foot – 8 Feet Required)
17	505-0181	1	Nipple, Pipe (1 x 10.00)	46	502-1006	1	Connector, Hose (1/2 x 5/8)
18	821-6002-03	1	Screw, Hex Head (M6 x 1 x 16)	47	505-0040	1	Elbow, Pipe
19	148-1166-02	1	Bracket, Fuel System – Support	48	502-0827	1	Hose, Barb
20	140-3161	1	Cleaner, Air (Includes Stud and Wing Nut)	49	503-0191	–	Hose – Bulk (Order by the Foot – 1 Foot Required)
21	140-3151	1	Element, Replacement – Air Cleaner	50	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
22	148-1181	1	Hose, Mixer Adapter	51	332-2634	3	Clamp, J
23	503-1870-05	2	Clamp, Hose	52	503-0183	4	Clamp, Hose
24	526-2100	4	Washer, Flat (M8)	53	503-1872-01	2	Clamp, Hose
25	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	54	338-3654-01	1	Harness, LPG
26	155-1256	1	Clamp, Muffler (1.50")	55	520-1030	1	Stud – Air Cleaner
27	526-0174	5	Washer, Flat				
28	800-2089	1	Screw, Cap – Hex Head (M10 x 1.5 x 40)				
29	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)				

* – Parts Included with 148-1174 Mixer

Fuel System
Natural Gas / Propane Vapor Withdrawl With Automatic Changeover
Spec A-B

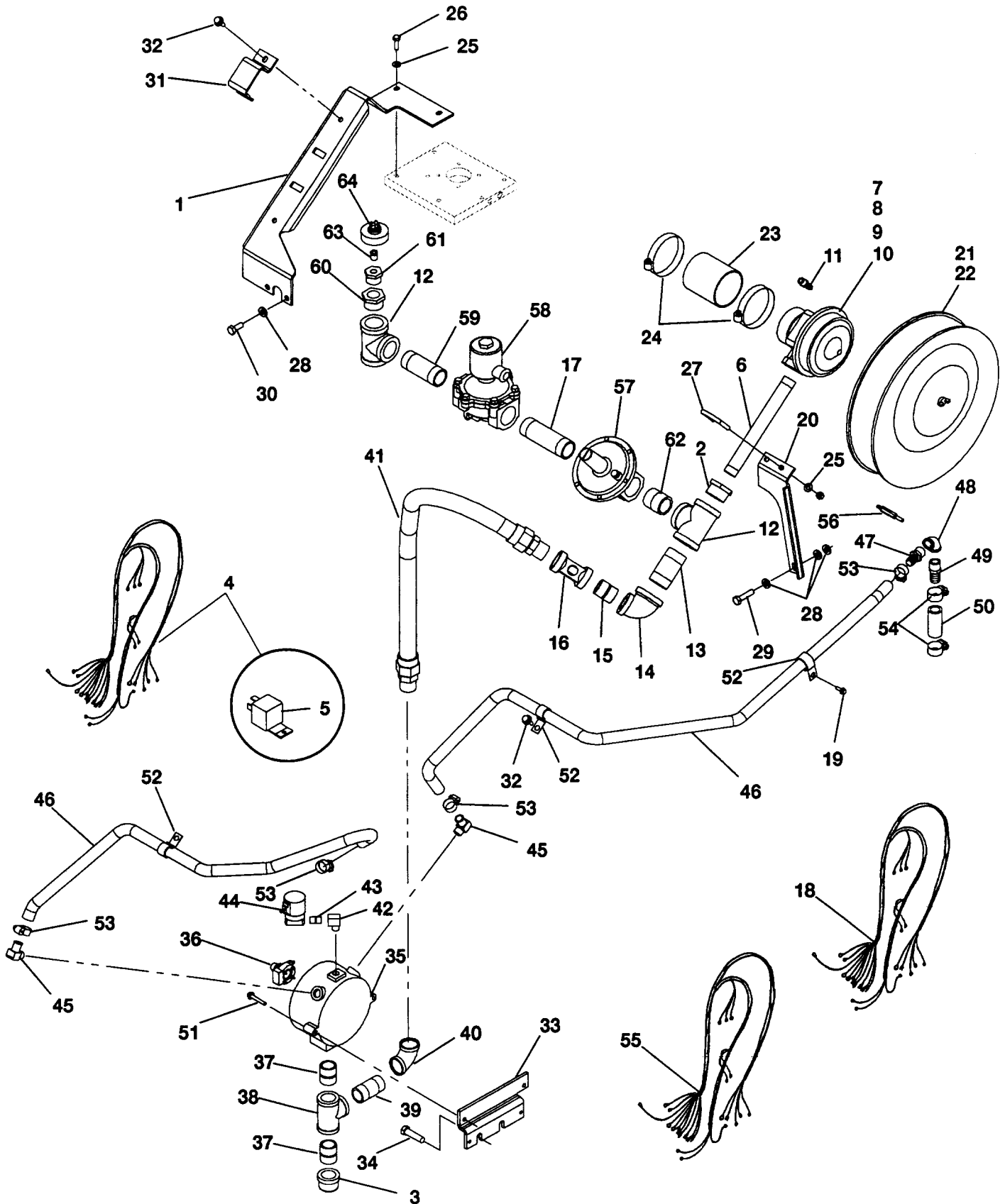


Fuel System
Natural Gas / Propane Vapor Withdrawl With Automatic Changeover
Spec A-B

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	24	505-0802	1	Bushing, Reducer (1.00 x 1/4)
2	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	25	338-3816-01	1	Harness, Dual Fuel
3	526-2100	4	Washer, Flat (M8)	26	505-0007	1	Bushing, Reducer (1/4 x 1/8)
4	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	27	309-0669	1	Switch, Low Pressure
5	148-1015	1	Regulator, Natural Gas	28	502-1218	1	Connector, Hose
6	505-0177	2	Nipple, Pipe (1-1/4 x 1.63)	29	338-4037	1	Harness, Fuel Alarm
7	505-0249	2	Tee, Pipe	30	148-1090	1	Clamp, Fuel System (1.00)
8	505-0297	1	Bushing, Reducer (1.25 x .75)	31	148-1089	1	Clamp, Fuel System (1.25)
9	505-0268	1	Nipple, Pipe (3/4 x 9.00)	32	821-6003-03	4	Screw, Hex Head (M8 x 1.25 x 20)
10	148-1174	1	Mixer (Includes Parts Marked *)	33	140-3161	1	Cleaner, Air (Includes Stud and Wing Nut)
11	148-1173-02	1	* Adapter, Hose	34	140-3151	1	Element, Replacement – Air Cleaner
12	140-3246	1	* G1-73 Gasket	35	148-1181	1	Hose, Mixer Adapter
13	145-0540	1	* G1-21 Gasket	36	503-1870-05	2	Clamp, Hose
14	505-0157	1	Nipple, Pipe (1-1/4 x 5.00)	37	155-1256	1	Clamp, Muffler (1.50")
15	307-2885	1	Valve, Solenoid	38	148-1166-02	1	Bracket, Fuel System – Support
16	505-0258	1	Nipple, Pipe (1-1/4 x 3.00)	39	526-0174	5	Washer, Flat
17	505-0473	1	Elbow, Reducer – 90° (1 x 1.25)	40	800-2089	1	Screw, Cap – Hex Head (M10 x 1.5 x 40)
18	505-0004	2	Nipple, Pipe (1 x 1.50)	41	520-1030	1	Stud – Air Cleaner
19	148-0626	1	Valve, Load Adjusting				
20	505-0090	1	Nipple, Pipe (1 x 6.00)				
21	148-0636	1	Regulator, Propane Vapor				
22	307-2884	1	Valve, Solenoid				
23	505-0023	1	Bushing, Reducer (1-1/4 x 1.00)				

* – Parts Included with 148-1174 Mixer

Fuel System
Natural Gas / Propane Liquid Withdrawl With Automatic Changeover
Spec A-B

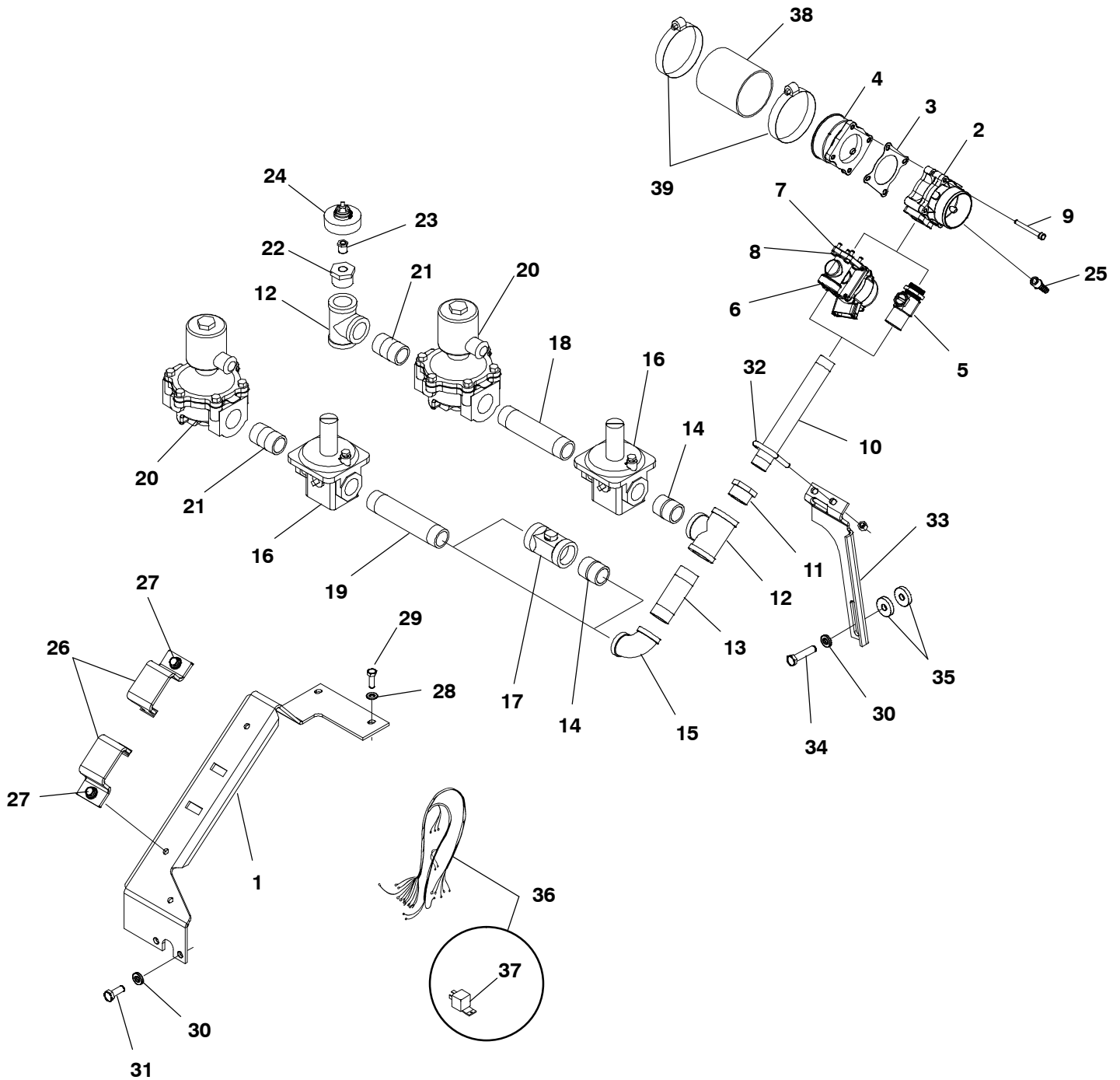


Fuel System
Natural Gas / Propane Liquid Withdrawl With Automatic Changeover
Spec A-B

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	800-2115	2	Screw, Cap – Hex Head (M12 x 1.75 x 45) (Genset Mounted Converter Only)
2	505-0297	1	Reducer, Bushing – Pipe (1.25 x .75)	35	148-0625	1	Converter, Gas
3	505-0479	1	Cap, Pipe (1.00)	36	148-1152	1	Solenoid, Primer
4	338-3816-01	1	Harness, Wiring – Dual Fuel (Includes Relay)	37	505-0004	2	Nipple, Pipe (1 x 1.50)
5	307-2817-01	1	Relay (12 Volt)	38	505-0304	1	Tee, Pipe
6	505-0268	1	Nipple, Pipe (3/4 x 9.00)	39	505-0086	1	Nipple, Pipe (1 x 2.50)
7	148-1174	1	Mixer (Includes Parts Marked *)	40	505-0041	1	Elbow, Pipe
8	148-1173-02	1	* Adapter, Hose	41	501-0630	1	Hose
9	140-3246	1	* G1-73 Gasket	42	502-0054	1	Elbow, Pipe – Street
10	145-0540	1	* G1-21 Gasket	43	505-0099	1	Nipple, Pipe (1/4 x .88)
11	502-1218	1	Connector, Hose	44	307-0268-01	1	Valve, Solenoid
12	505-0249	2	Tee, Pipe	45	502-0942	2	Elbow, Hose – 90°
13	505-0258	1	Nipple, Pipe (1-1/4 x 3.00)	46	503-1988	–	Hose – Bulk (Order by the Foot – 8 Feet Required)
14	505-0473	1	Elbow, Reducer – 90° (1 x 1.25)	47	502-1006	1	Connector, Hose (1/2 x 5/8)
15	505-0004	1	Nipple, Pipe (1 x 1.50)	48	505-0040	1	Elbow, Pipe
16	148-0626	1	Valve, Load Adjusting	49	502-0827	1	Hose, Barb
17	505-0157	1	Nipple, Pipe (1-1/4 x 5.00)	50	503-0191	–	Hose – Bulk (Order by the Foot – 1 Foot Required)
18	338-4037	1	Harness, Fuel Alarm	51	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
19	821-6002-03	1	Screw, Hex Head (M6 x 1 x 16)	52	332-2634	3	Clamp, J
20	148-1166-02	1	Bracket, Fuel System – Support	53	503-0183	4	Clamp, Hose
21	140-3161	1	Cleaner, Air (Includes Stud and Wing Nut)	54	503-1872-01	2	Clamp, Hose
22	140-3151	1	Element, Replacement – Air Cleaner	55	338-3654-01	1	Harness, LPG
23	148-1181	1	Hose, Mixer Adapter	56	520-1030	1	Stud – Air Cleaner
24	503-1870-05	2	Clamp, Hose	57	148-1015	1	Regulator, Natural Gas
25	526-2100	4	Washer, Flat (M8)	58	307-2885	1	Valve, Solenoid
26	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	59	505-0653	1	Nipple, Pipe (1-1/4 x 4.00)
27	155-1256	1	Clamp, Muffler (1.50")	60	505-0023	1	Bushing, Reducer (1-1/4 x 1.00)
28	526-0174	5	Washer, Flat	61	505-0802	1	Bushing, Reducer (1 x 1/4)
29	800-2089	1	Screw, Cap – Hex Head (M10 x 1.5 x 40)	62	505-0177	1	Nipple, Pipe (1-1/4 x 1.63)
30	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	63	505-0007	1	Bushing, Reducer (1/4 x 1/8)
31	148-1089	1	Clamp, Fuel System (1.25)	64	309-0669	1	Switch, Low Pressure
32	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 20)				
33	148-1148-02	1	Bracket, Converter				

* – Parts Included with 148-1174 Mixer

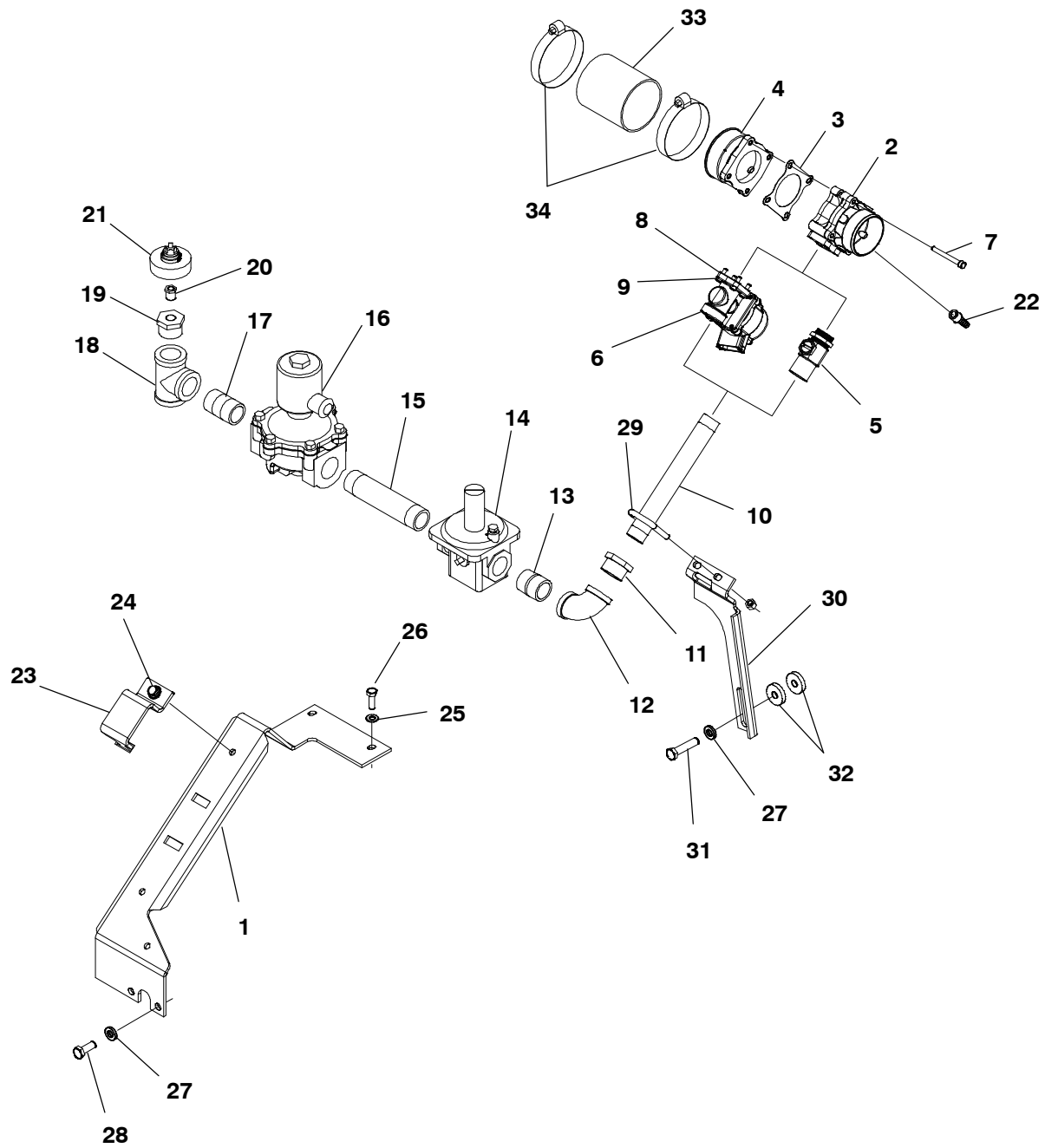
Fuel System
Natural Gas / Propane Vapor Withdrawl With Automatic Changeover
Begin Spec C



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

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	20	307-2884	2	Valve, Solenoid
2	148-1200-02	1	Mixer – ITB	21	505-0107	2	Nipple, Pipe (1 x 2.00)
3	145-0813	1	Gasket, Throttle Body	22	505-0802	1	Bushing, Reducer (1.00 x 1/4)
4	148-1237	1	Adapter, Mixer	23	505-0007	1	Bushing, Reducer (1/4 x 1/8)
5	504-0210	1	Valve, Fuel – Manual	24	309-0669-01	1	Switch, Low Pressure
6	300-5530-03	1	Valve, Fuel – Automatic	25	502-1494	1	Connector, Hose
7	148-1241	1	Gasket, Mixer – With Automatic Fuel Valve	26	148-1090	2	Clamp, Fuel System (1.00)
8	802-2539	4	Screw, Cap – Socket Head (M5 x 0.8 x 17) – With Automatic Fuel Valve	27	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)
9	802-2538	4	Screw, Cap – Socket Head	28	526-2100	2	Washer, Flat (M8)
10	505-0438	1	Nipple, Pipe (3/4 x 8.00)	29	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)
11	505-0129	1	Bushing, Reducer (1 x 3/4)	30	526-0174	3	Washer, Flat
12	505-0304	2	Tee, Pipe	31	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
13	505-0147	1	Nipple, Pipe (1 x 3.50)	32	155-1256	1	Clamp, Muffler (1.50")
14			Nipple, Pipe (1 x 1.50)	33	148-1247-02	1	Bracket, Fuel System – Support
	505-0004	1	Automatic Fuel Valve	34	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
	505-0004	2	Manual Fuel Valve	35	526-0077	2	Washer, Flat (3/8)
15	505-0041	1	Elbow, Pipe	36	338-3816-01	1	Harness, Dual Fuel (Includes Relay)
16	148-1202	2	Regulator, Fuel	37	307-2817-01	1	Relay (12V)
17	148-0626	1	Valve, Load Adjusting – With Manual Fuel Valve	38	148-1181	1	Hose, Mixer Adapter
18	505-0357	1	Nipple, Pipe (1 x 5.50)	39	503-1870-05	2	Clamp, Hose
19			Nipple, Pipe				
	505-0438	1	With Automatic Fuel Valve				
	505-0090	1	With Manual Fuel Valve (1 x 6.00)				

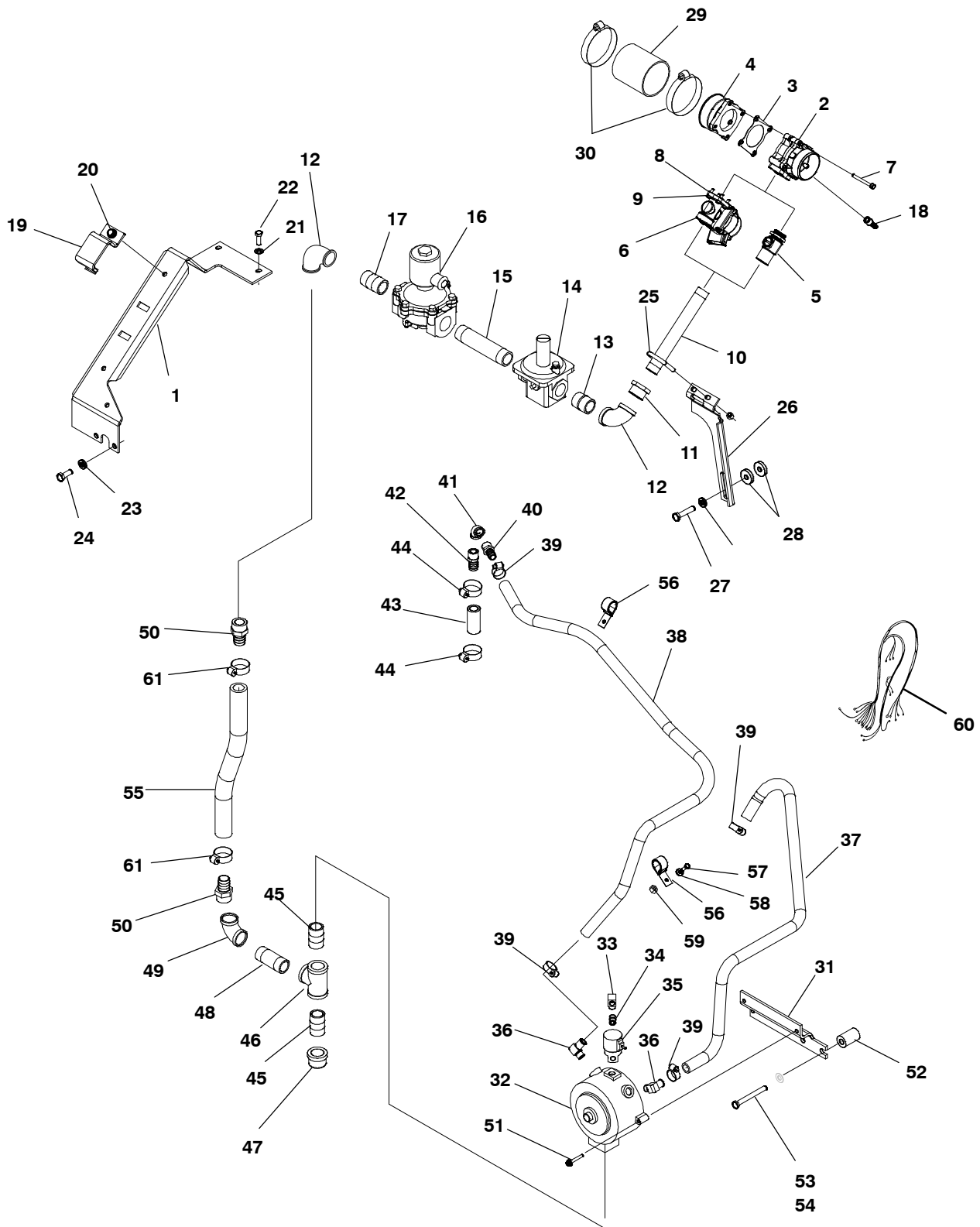
Fuel System
Natural Gas / Propane Vapor
Begin Spec C



Fuel System
Natural Gas / Propane Vapor
Begin Spec C

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	505-0802	1	Bushing, Reducer (1.00 x 1/4) – With Low Pressure Switch
2	148-1200-02	1	Mixer – ITB	20	505-0007	1	Bushing, Reducer (1/4 x 1/8) – With Low Pressure Switch
3	145-0813	1	Gasket, Throttle Body	21	309-0669-01	1	Switch, Low Pressure
4	148-1237	1	Adapter, Mixer	22	502-1494	1	Connector, Hose
5	504-0210	1	Valve, Fuel – Manual	23	148-1090	1	Clamp, Fuel System (1.00)
6	300-5530-03	1	Valve, Fuel – Automatic	24	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)
7	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	25	526-2100	2	Washer, Flat (M8)
8	148-1241	1	Gasket, Mixer – With Automatic Fuel Valve	26	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)
9	802-2539	4	Screw, Cap – Socket Head (M5 x 0.8 x 17) – With Automatic Fuel Valve	27	526-0174	3	Washer, Flat
10	505-0438	1	Nipple, Pipe (3/4 x 8.00)	28	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
11	505-0129	1	Bushing, Reducer (1 x 3/4)	29	155-1256	1	Clamp, Muffler (1.50")
12	505-0041	1	Elbow, Pipe	30	148-1247-02	1	Bracket, Fuel System – Support
13	505-0004	1	Nipple, Pipe (1 x 1.50)	31	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
14	148-1202	1	Regulator, Fuel	32	526-0077	2	Washer, Flat (3/8)
15	505-0357	1	Nipple, Pipe (1 x 5.50)	33	148-1181	1	Hose, Mixer Adapter
16	307-2884	1	Valve, Solenoid	34	503-1870-05	2	Clamp, Hose
17	505-0107	1	Nipple, Pipe (1 x 2.00) – With Low Pressure Switch				
18	505-0304	1	Tee, Pipe – With Low Pressure Switch				

Fuel System LP Liquid Begin Spec C



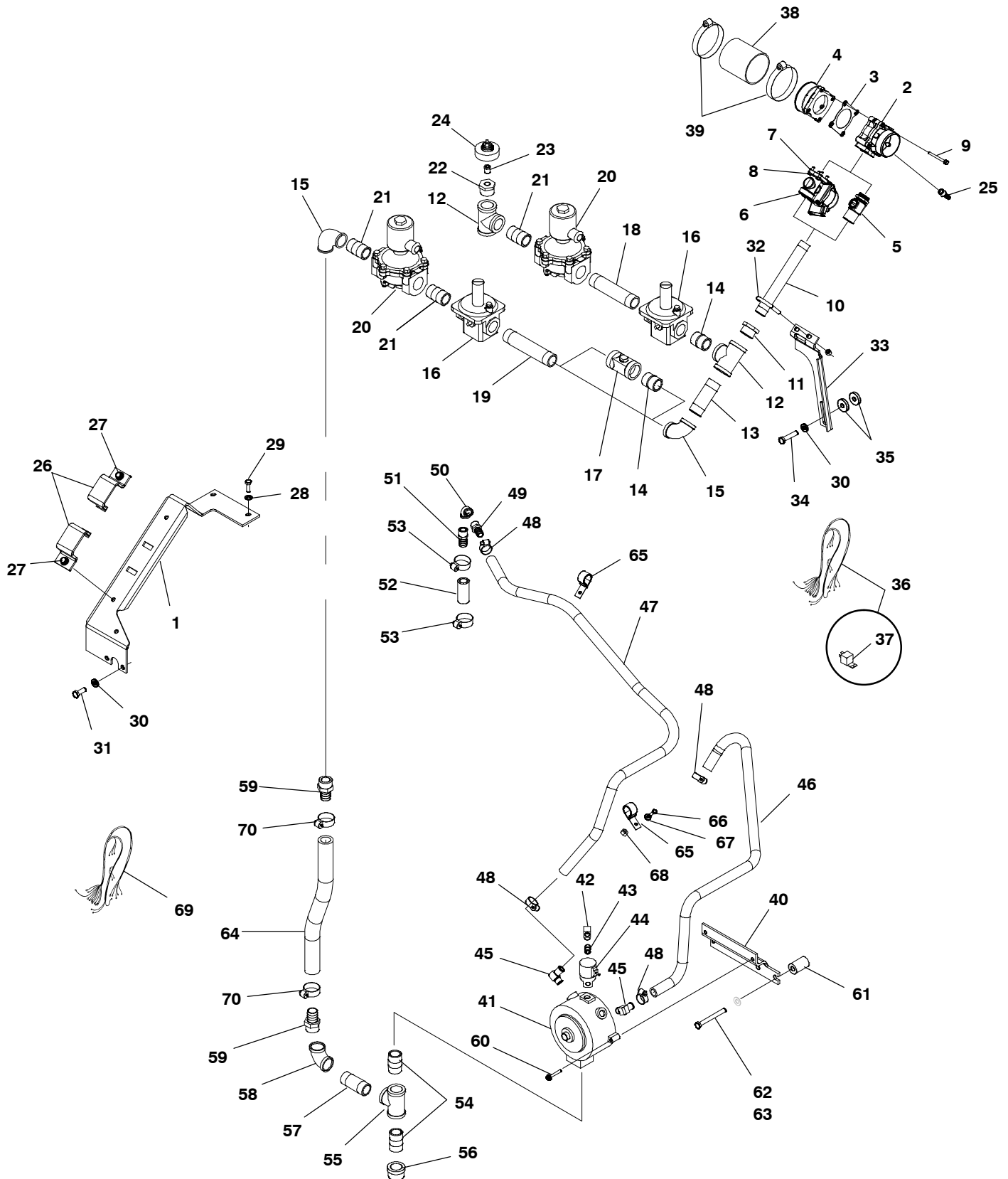
**Fuel System
LP Liquid
Begin Spec C**

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	148-1248-02	1	Bracket, Converter
2	148-1200-02	1	Mixer – ITB	32	148-1240	1	Converter
3	145-0813	1	Gasket, Throttle Body	33	502-0054	1	Elbow, Street Pipe
4	148-1237	1	Adapter, Mixer	34	505-0099	1	Nipple, Pipe (1/4 x .88)
5	504-0210	1	Valve, Fuel – Manual	35	307-0268-01	1	Valve, Solenoid
6	300-5530-03	1	Valve, Fuel – Automatic	36	502-0942	2	Elbow, 90° Hose
7	802-2538	4	Screw, Cap – Socket Head (M6 x 1.0 x 60)	37	503-2293-04	1	Hose, Coolant
8	148-1241	1	Gasket, Mixer – With Automatic Fuel Valve	38	503-2293-05	1	Hose, Coolant
9	802-2539	4	Screw, Cap – Socket Head (M5 x 0.8 x 17) – With Automatic Fuel Valve	39	503-0183	4	Clamp, Hose
10	505-0438	1	Nipple, Pipe (3/4 x 8.00)	40	502-1006	1	Connector, Hose (1/2 x 5/8)
11	505-0129	1	Bushing, Reducer (1 x 3/4)	41	505-0040	1	Elbow, Pipe
12	505-0041	2	Elbow, Pipe	42	502-0827	1	Hose, Barb
13	505-0004	1	Nipple, Pipe (1 x 1.50)	43	503-0191	–	Hose, Water – Bulk (Order by the Foot – 1 Foot Required)
14	148-1202	1	Regulator, Fuel	44	503-1870-01	2	Clamp, Hose
15	505-0357	1	Nipple, Pipe (1 x 5.50)	45	505-0107	2	Nipple, Pipe (1 x 2.00)
16	307-2884	1	Valve, Solenoid	46	505-0304	1	Tee, Pipe
17	505-0107	1	Nipple, Pipe (1 x 2.00)	47	505-0479	1	Cap, Pipe
18	502-1494	1	Connector, Hose	48	505-0087	1	Nipple, Pipe (1 x 3.00)
19	148-1090	1	Clamp, Fuel System (1.00)	49	505-0041	1	Elbow, Pipe
20	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)	50	502-1110-01	2	Connector, Hose
21	526-2100	2	Washer, Flat (M8)	51	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
22	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	52	130-3660-02	2	Spacer, Shock Absorber – UCD224 Generator
23	526-0174	3	Washer, Flat	53	800-2099	2	Screw, Cap – Hex Head (M10 x 1.5 x 90) – UCD224 Generator
24	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	54	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45) – UC274 Generator
25	155-1256	1	Clamp, Muffler (1.50")	55	503-2353-01	1	Hose, Fuel
26	148-1247-02	1	Bracket, Fuel System – Support	56	332-3196	3	Clamp, J
27	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)	57	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
28	526-0077	2	Washer, Flat (3/8)	58	526-0018	1	Washer, Flat (1/4)
29	148-1181	1	Hose, Mixer Adapter	59	860-2007	1	Nut, Hex (M6 x 1)
30	503-1870-05	2	Clamp, Hose	60	338-4115	1	Harness, Jumper
				61	503-2157-02	2	Clamp, Hose

Fuel System

Natural Gas / Propane Liquid Withdrawl With Automatic Changeover

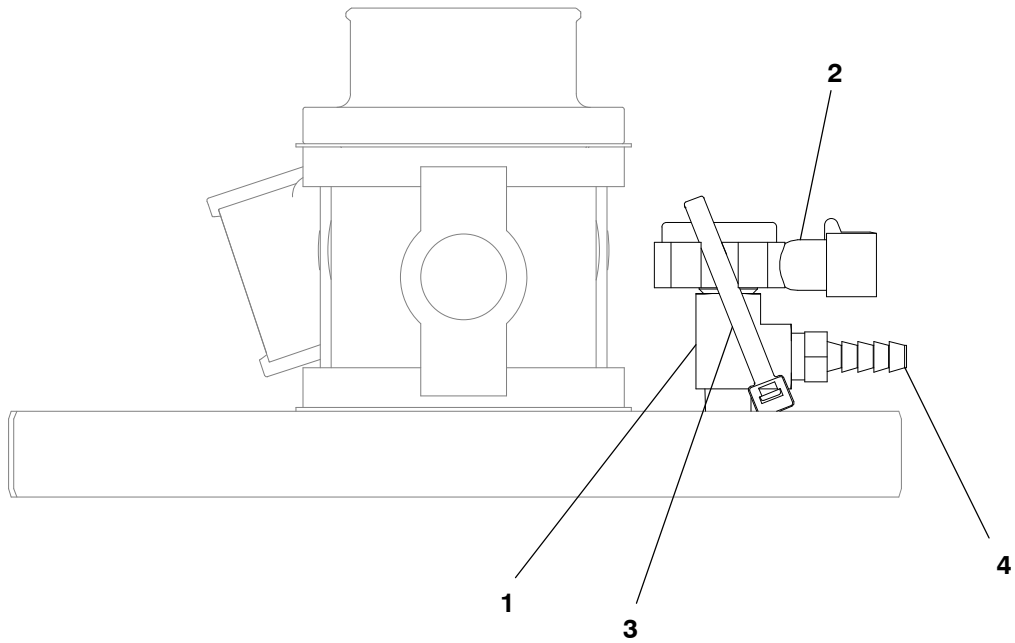
Begin Spec C



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

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	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
2	148-1200-02	1	Mixer – ITB	35	526-0077	2	Washer, Flat (3/8)
3	145-0813	1	Gasket, Throttle Body	36	338-3816-01	1	Harness, Dual Fuel (Includes Relay)
4	148-1237	1	Adapter, Mixer	37	307-2817-01	1	Relay (12V)
5	504-0210	1	Valve, Fuel – Manual	38	148-1181	1	Hose, Mixer Adapter
6	300-5530-03	1	Valve, Fuel – Automatic	39	503-1870-05	2	Clamp, Hose
7	148-1241	1	Gasket, Mixer – With Automatic Fuel Valve	40	148-1248-02	1	Bracket, Converter
8	802-2539	4	Screw, Cap – Socket Head (M5 x 0.8 x 17) – With Automatic Fuel Valve	41	148-1240	1	Converter
9	802-2538	4	Screw, Cap – Socket Head	42	502-0054	1	Elbow, Street Pipe
10	505-0438	1	Nipple, Pipe (3/4 x 8.00)	43	505-0099	1	Nipple, Pipe (1/4 x .88)
11	505-0129	1	Bushing, Reducer (1 x 3/4)	44	307-0268-01	1	Valve, Solenoid
12	505-0304	2	Tee, Pipe	45	502-0942	2	Elbow, 90° Hose
13	505-0147	1	Nipple, Pipe (1 x 3.50)	46	503-2293-04	1	Hose, Coolant
14			Nipple, Pipe (1 x 1.50)	47	503-2293-05	1	Hose, Coolant
	505-0004	1	Automatic Fuel Valve	48	503-0183	4	Clamp, Hose
	505-0004	2	Manual Fuel Valve	49	502-1006	1	Connector, Hose (1/2 x 5/8)
15	505-0041	2	Elbow, Pipe	50	505-0040	1	Elbow, Pipe
16	148-1202	2	Regulator, Fuel	51	502-0827	1	Hose, Barb
17	148-0626	1	Valve, Load Adjusting – With Manual Fuel Valve	52	503-0191	–	Hose, Water – Bulk (Order by the Foot – 1 Foot Required)
18	505-0357	1	Nipple, Pipe (1 x 5.50)	53	503-1870-01	2	Clamp, Hose
19			Nipple, Pipe	54	505-0107	2	Nipple, Pipe (1 x 2.00)
	505-0181	1	With Automatic Fuel Valve (1 x 10.00)	55	505-0304	1	Tee, Pipe
	505-0090	1	With Manual Fuel Valve (1 x 6.00)	56	505-0479	1	Cap, Pipe
20	307-2884	2	Valve, Solenoid	57	505-0087	1	Nipple, Pipe (1 x 3.00)
21	505-0107	3	Nipple, Pipe (1 x 2.00)	58	505-0041	1	Elbow, Pipe
22	505-0802	1	Bushing, Reducer (1.00 x 1/4)	59	502-1110-01	2	Connector, Hose
23	505-0007	1	Bushing, Reducer (1/4 x 1/8)	60	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
24	309-0669-01	1	Switch, Low Pressure	61	130-3660-02	2	Spacer, Shock Absorber – UCD224 Generator
25	502-1494	1	Connector, Hose	62	800-2099	2	Screw, Cap – Hex Head (M10 x 1.5 x 90) – UCD224 Generator
26	148-1090	2	Clamp, Fuel System (1.00)	63	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45) – UC274 Generator
27	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)	64	503-2353-03	1	Hose, Fuel
28	526-2100	2	Washer, Flat (M8)	65	332-3196	3	Clamp, J
29	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	66	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
30	526-0174	3	Washer, Flat	67	526-0018	1	Washer, Flat (1/4)
31	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	68	860-2007	1	Nut, Hex (M6 x 1)
32	155-1256	1	Clamp, Muffler (1.50")	69	338-4395	1	Harness, Jumper
33	148-1247-02	1	Bracket, Fuel System – Support	70	503-2157-02	2	Clamp, Hose

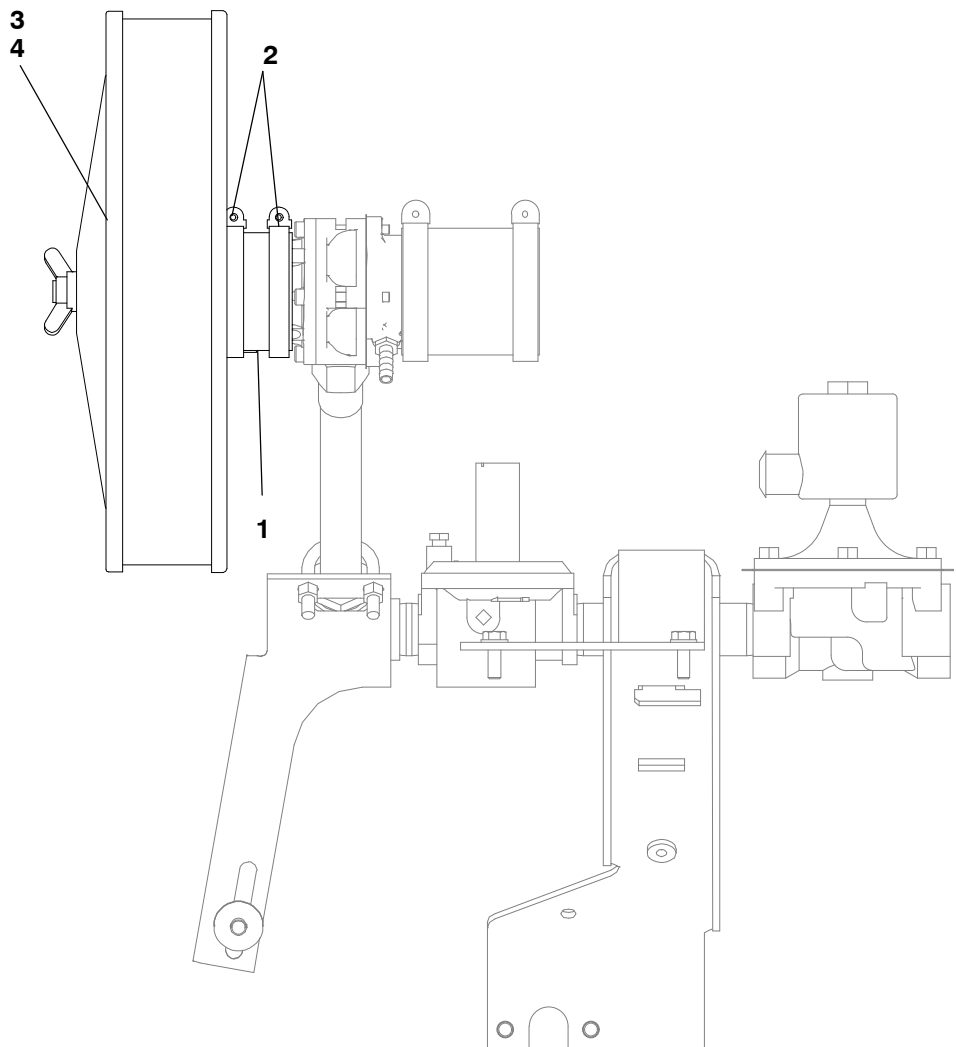
Map Sensor Begin Spec C



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-1386-01	1	Tee, Street – Modified
2	193-0495	1	Sensor, Map
3	332-0941	1	Clamp, Tie

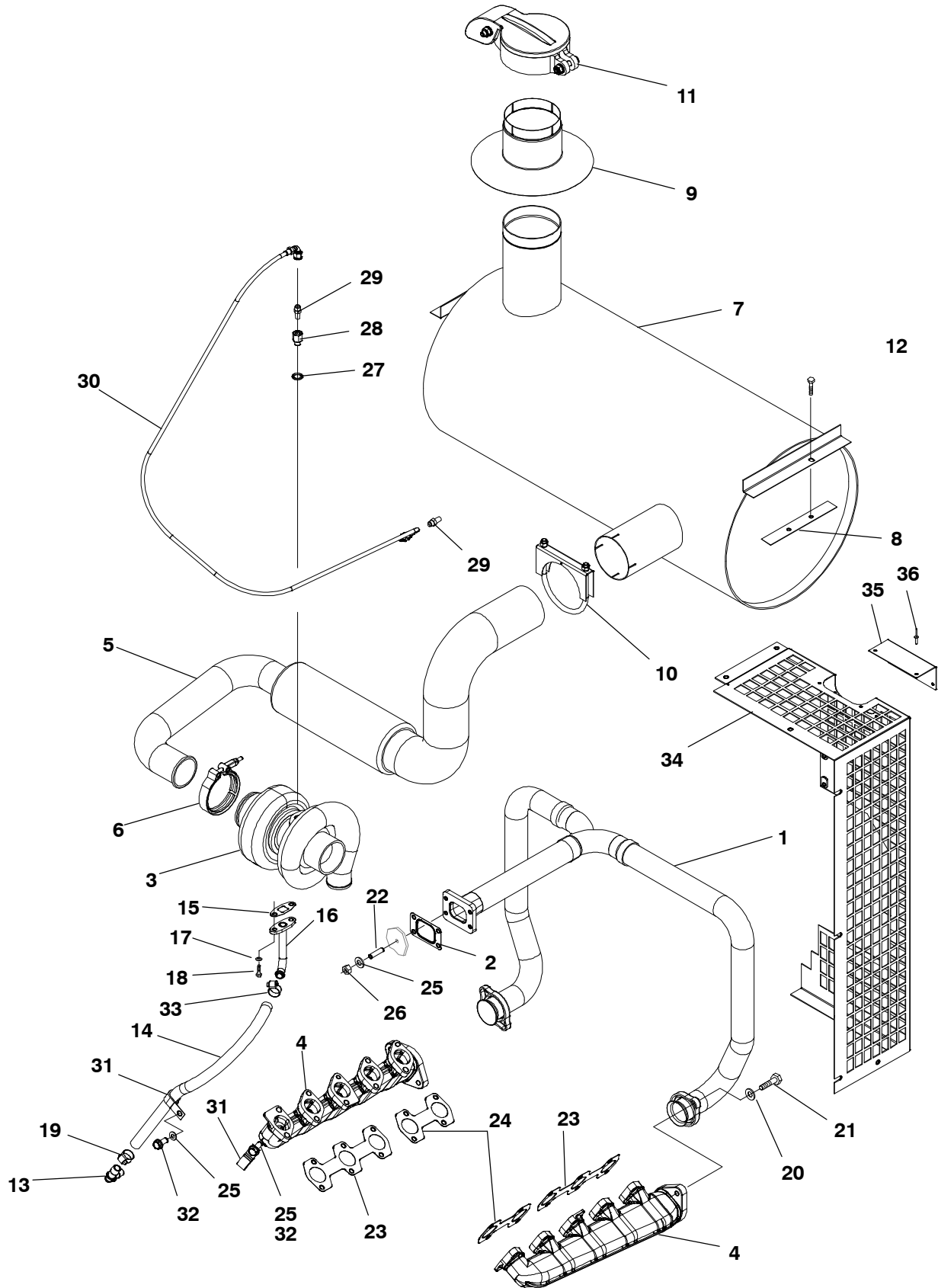
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4			Connector, Hose
	502-1299	1	(1/8 x 3/16) – Spec C
	502-0432	1	(1/8 x 3/8) – Begin Spec D

**Air Cleaner
Standard
Begin Spec C**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-2254	1	Hose, Air	3	140-3311	1	Cleaner, Air
2	503-1144	2	Screw, Hose Clamp	4	140-3448	1	Element, Replacement

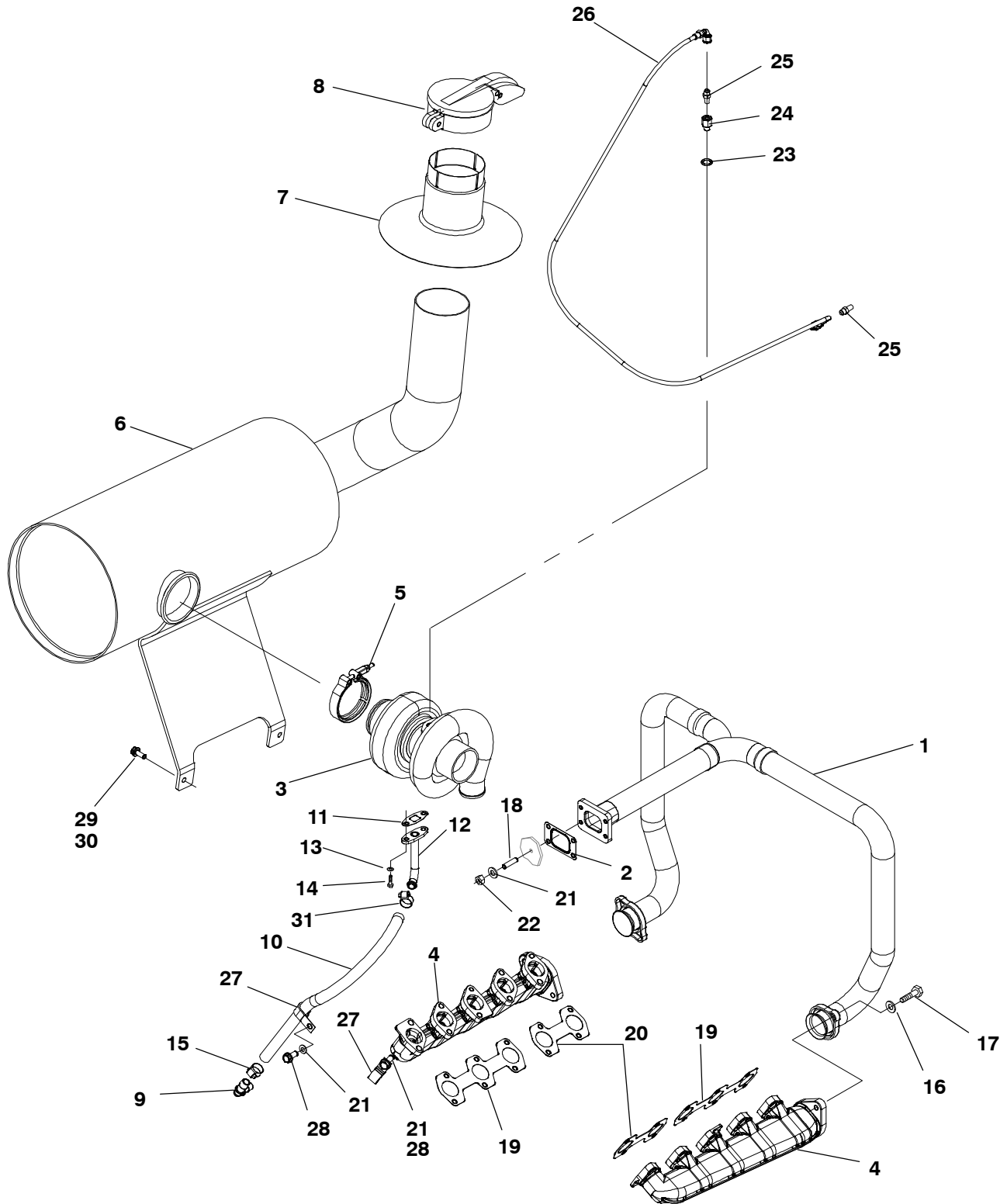
Exhaust System Residential



Exhaust System Residential

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	127-0324	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	155-3150-05	1	Silencer – Critical	25	526-2120	6	Washer, Flat (M10)
8	155-3219	2	Gasket, Muffler	26	860-2009	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	332-2634	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	130-5317-02	1	Guard, Fan
17	850-2008	2	Washer, Lock – Split (M8)	35	130-6110-02	1	Cover, Guard – Fan
18	800-2059	2	Screw, Cap – Hex Head (M8 x 1.25 x 30)	36	818-0231-02	4	Rivet, Pop

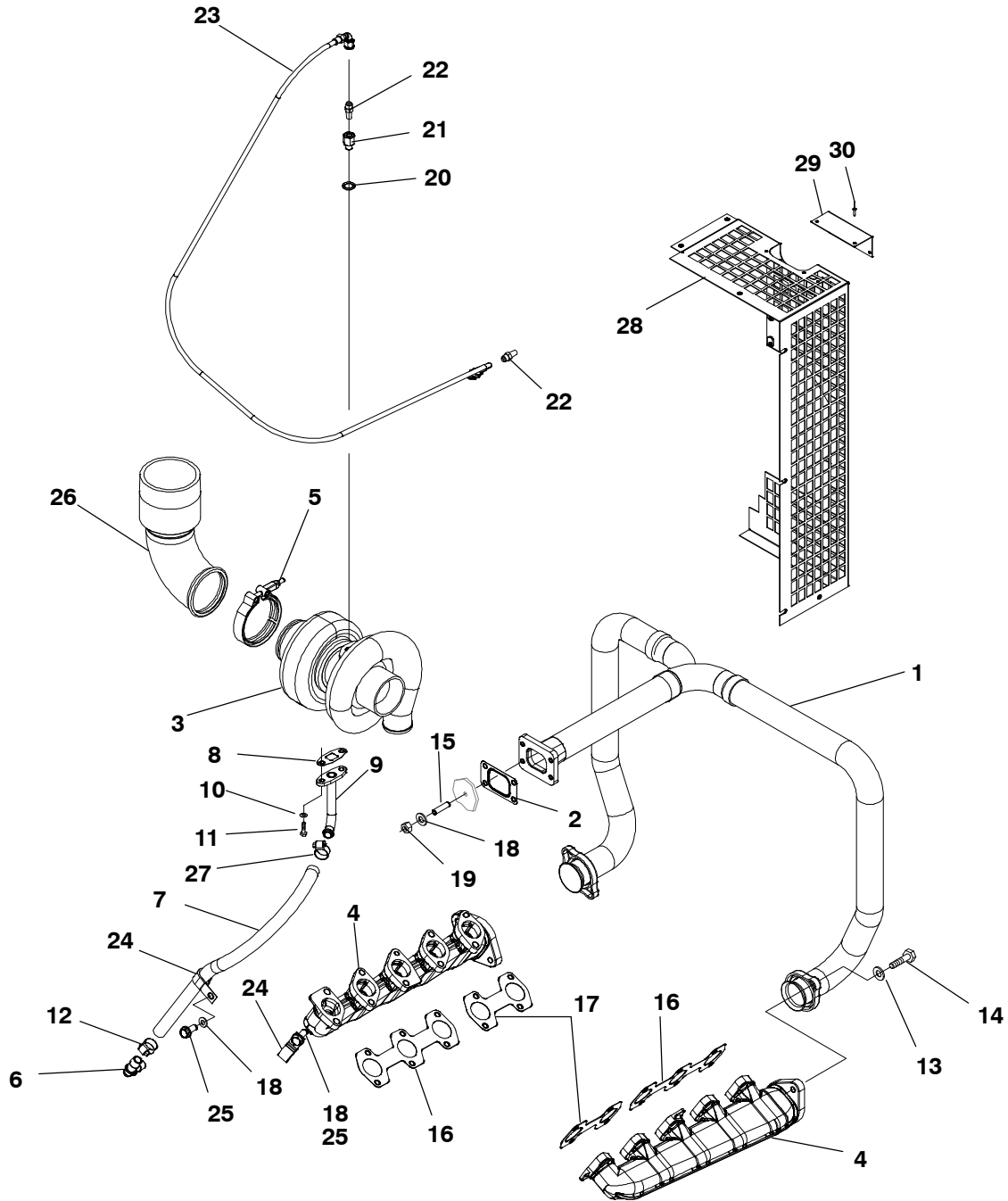
Exhaust System Industrial



Exhaust System Industrial

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3110	1	Tube, Exhaust	18	520-2407	4	Stud (M10 x 1.5 x 40)
2	127-0324	1	Gasket, Turbocharger	19	154-3105	2	Gasket, Exhaust Manifold
3	145-0795	1	Turbocharger	20	154-3106	2	Gasket, Exhaust Manifold
4	154-3094	2	Manifold, Exhaust	21	526-2120	6	Washer, Flat (M10)
5	155-2565	1	Clamp, V-Band	22	860-2009	4	Nut, Hex (M10 x 1.5)
6	155-3395	1	Silencer	23	509-0290-04	1	Seal, O-Ring (5/16)
7	155-3102-02	1	Shield, Rain	24	502-1381	1	Connector, Restricted
8	155-2062-10	1	Cap, Rain	25	502-1240	2	Adapter, Pipe
9	502-1372	1	Elbow, Hose - Barb	26	127-0441	1	Tube, Turbo Feed
10	503-2236	1	Hose, Turbo - Drain	27	332-2634	2	Clamp, J
11	127-0412	1	Gasket, Oil Drain	28	800-2085	2	Screw, Cap - Hex Head (M10 x 1.5 x 20)
12	145-0818-02	1	Tube, Oil Drain	29	526-2081	2	Washer, Flat (M6)
13	850-2008	2	Washer, Lock - Split (M8)	30	800-2033	2	Screw, Cap - Hex Head (M6 x 1 x 16)
14	800-2059	2	Screw, Cap - Hex Head (M8 x 1.25 x 30)	31	503-1136	1	Clamp
15	503-0183	1	Clamp, Hose				
16	526-2140	4	Washer, Flat (M12)				
17	800-2115	4	Screw, Cap - Hex Head (M12 x 1.75 x 45)				

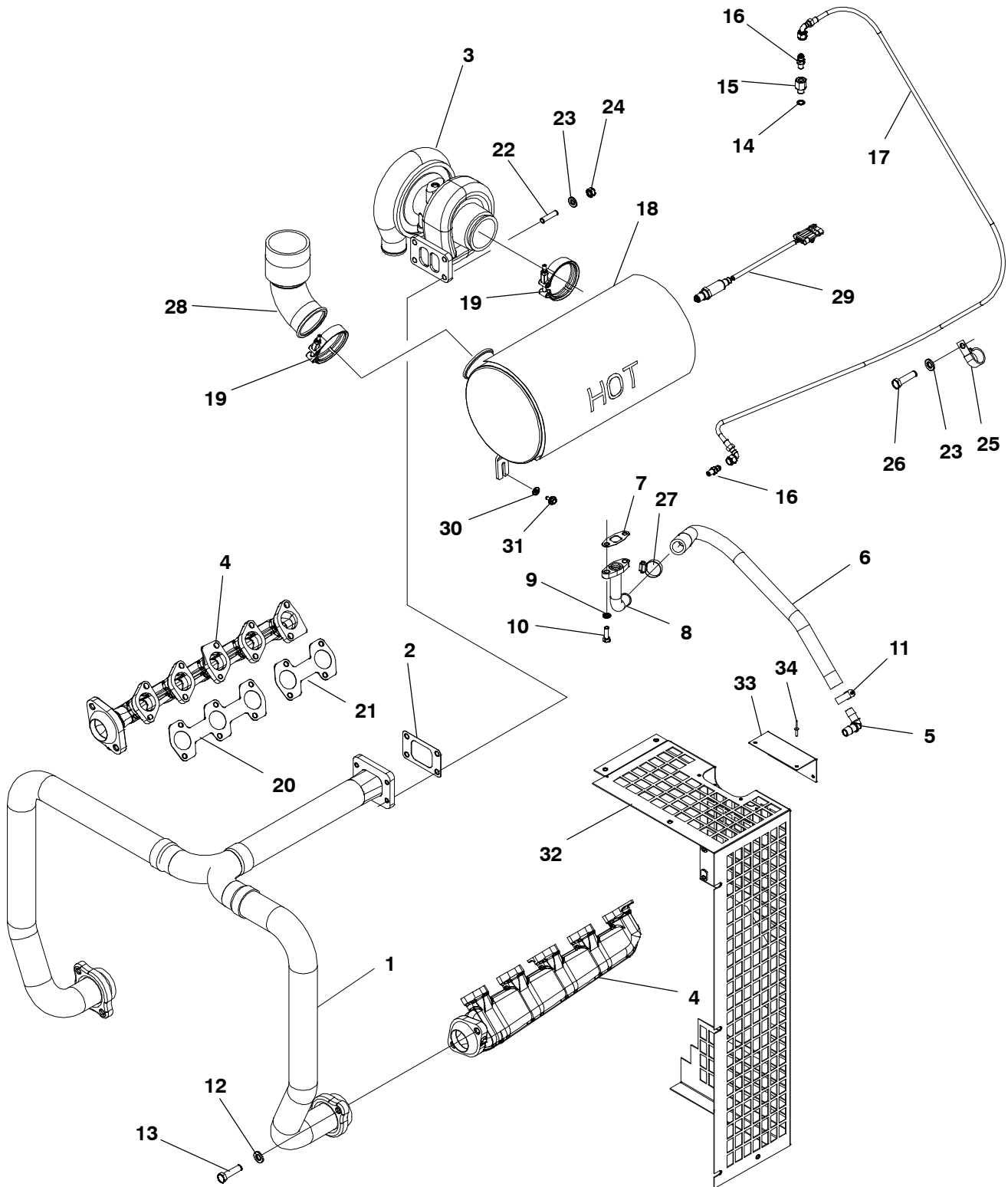
Exhaust System With Threaded Exhaust Pipe



Exhaust System With Threaded Exhaust Pipe

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3110	1	Tube, Exhaust	16	154-3105	2	Gasket, Exhaust Manifold
2	127-0324	1	Gasket, Turbocharger	17	154-3106	2	Gasket, Exhaust Manifold
3	145-0795	1	Turbocharger	18	526-2120	6	Washer, Flat (M10)
4	154-3094	2	Manifold, Exhaust	19	860-2009	4	Nut, Hex (M10 x 1.5)
5	155-2565	1	Clamp, V-Band	20	509-0290-04	1	Seal, O-Ring (5/16)
6	502-1372	1	Elbow, Hose – Barb	21	502-1381	1	Connector, Restricted
7	503-2236	1	Hose, Turbo – Drain	22	502-1240	2	Adapter, Pipe
8	127-0412	1	Gasket, Oil Drain	23	127-0441	1	Tube, Turbo Feed
9	145-0818-02	1	Tube, Oil Drain	24	332-2634	2	Clamp, J
10	850-2008	2	Washer, Lock – Split (M8)	25	800-2085	2	Screw, Cap – Hex Head (M10 x 1.5 x 20)
11	800-2059	2	Screw, Cap – Hex Head (M8 x 1.25 x 30)	26	155-3116	1	Adapter, Exhaust
12	503-0183	1	Clamp, Hose	27	503-1136	1	Clamp
13	526-2140	4	Washer, Flat (M12)	28	130-5317-02	1	Guard, Fan
14	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)	29	130-6110-02	1	Cover, Guard – Fan
15	520-2407	4	Stud (M10 x 1.5 x 40)	30	818-0231-02	4	Rivet, Pop

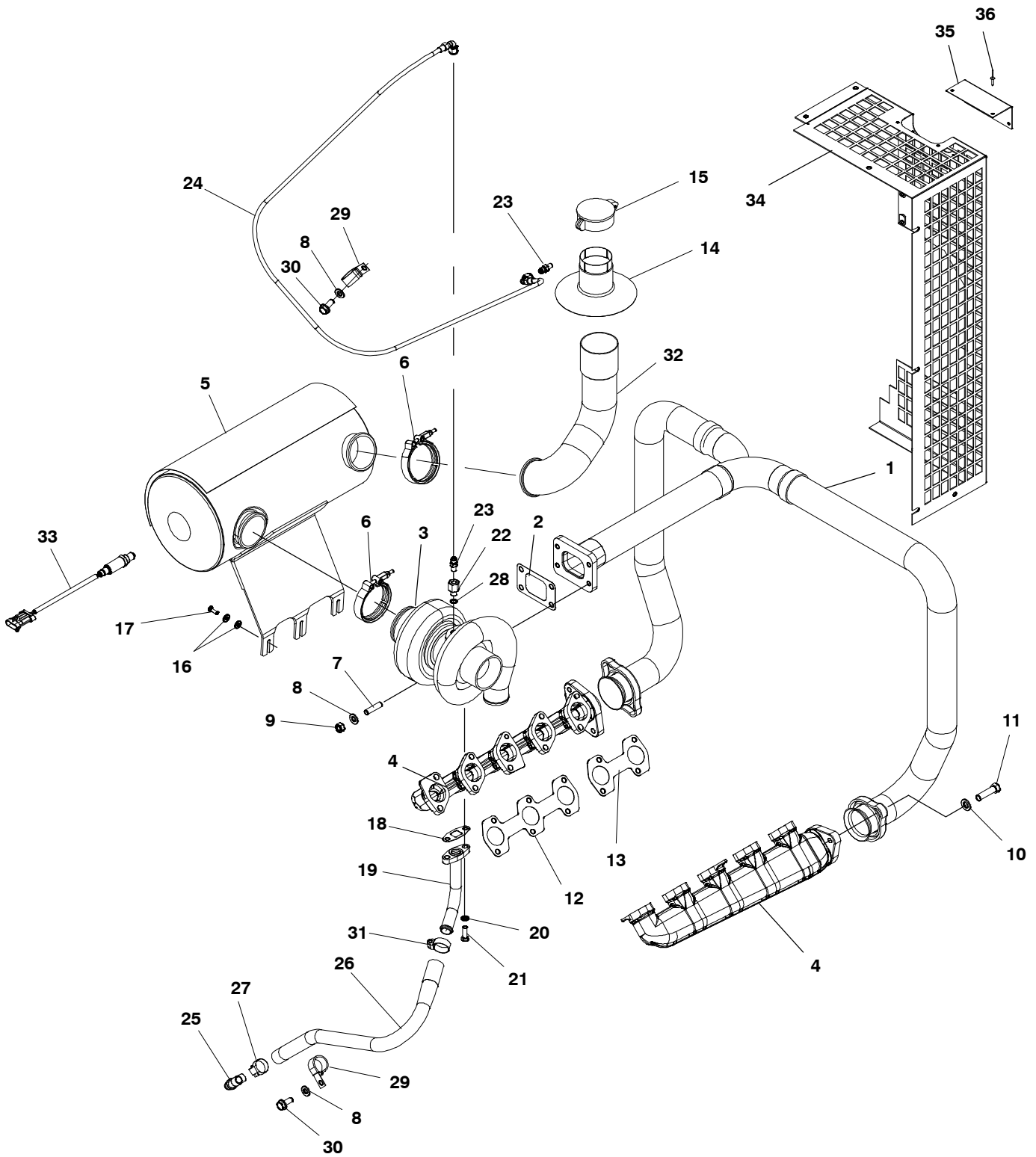
Exhaust System **With L102 Low Emissions and Threaded Exhaust Pipe** **Begin Spec C**



Exhaust System
With L102 Low Emissions and Threaded Exhaust Pipe
Begin Spec C

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	127-0324	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	860-2009	4	Nut, Hex (M10 x 1.5)
8	145-0818-02	1	Tube, Oil Drain	25	332-2634	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	155-3571	1	Elbow, Exhaust
12	526-2140	4	Washer, Flat (M12)	29	193-0499	1	Sensor, Oxygen
13	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)	30	526-0018	6	Washer, Flat
14	509-0290-04	1	Seal, O-Ring (5/16)	31	800-2033	3	Screw, Cap – Hex Head (M6 x 1.0 x 16)
15	502-1381	1	Connector, Restricted	32	130-5317-02	1	Guard, Fan
16	502-1240	2	Adapter, Pipe	33	130-6110-02	1	Cover, Guard – Fan
17	127-0441	1	Tube, Turbo Feed	34	818-0231-02	4	Rivet, Pop

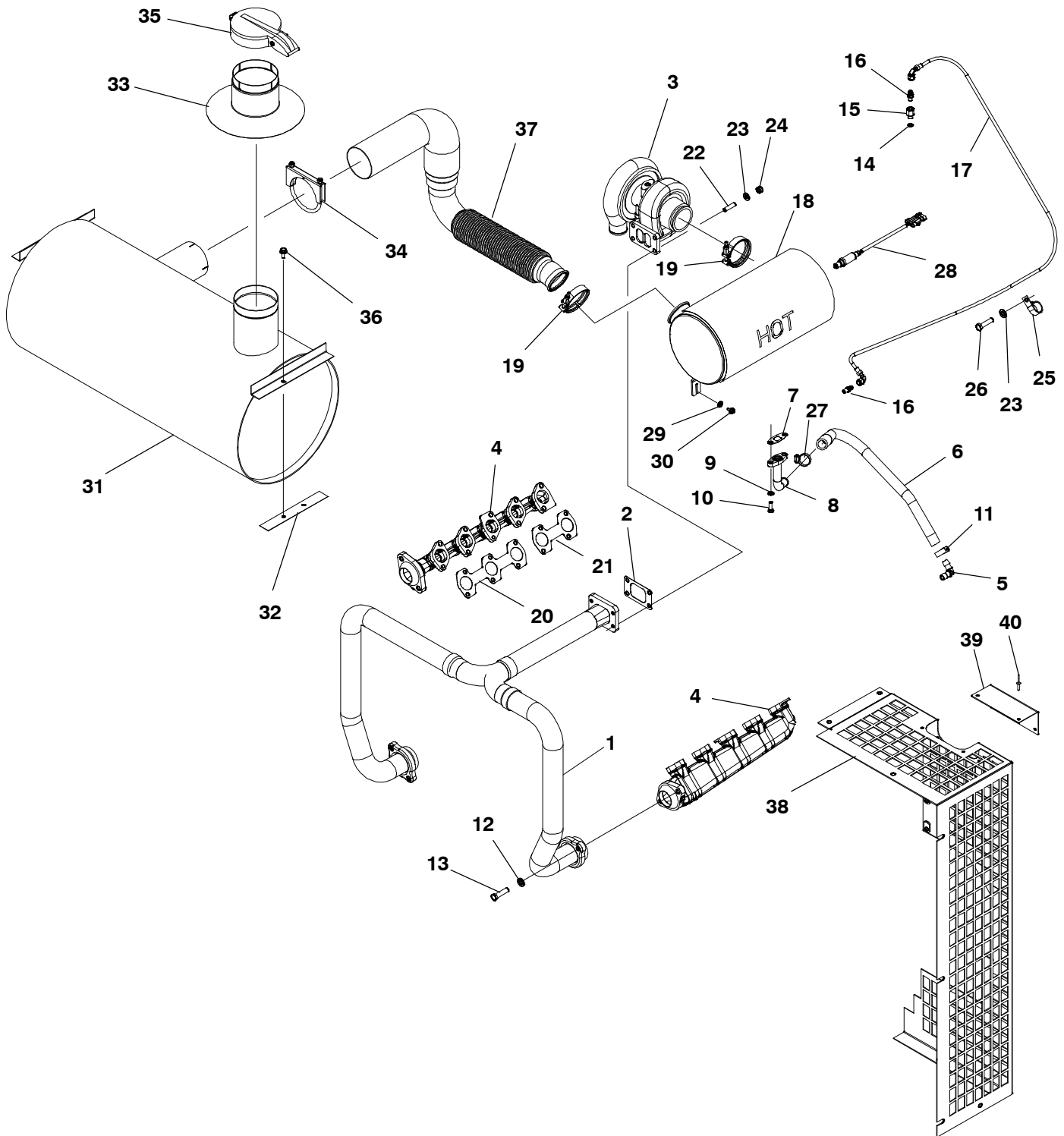
Exhaust System **With L102 Low Emissions and Mounted Muffler** **Begin Spec C**



Exhaust System
With L102 Low Emissions and Mounted Muffler
Begin Spec C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3110	1	Tube, Exhaust	19	145-0818-02	1	Tube, Oil Drain
2	127-0324	1	Gasket, Turbocharger	20	850-2008	2	Washer, Lock – Split (M8)
3	145-0795	1	Turbocharger	21	800-2059	2	Screw, Cap – Hex Head (M8 x 1.25 x 30)
4	154-3094	2	Manifold, Exhaust	22	502-1381	1	Connector, Restricted
5	155-3573	1	Converter, Catalytic	23	502-1240	2	Adapter, Pipe
6	155-2565	2	Clamp, V-Band	24	127-0441	1	Tube, Turbo Feed
7	520-2407	4	Stud (M10 x 1.5 x 40)	25	502-1372	1	Elbow, Hose – Barb
8	526-2120	6	Washer, Flat (M10)	26	503-2236	1	Hose, Turbo – Drain
9	860-2009	4	Nut, Hex (M10 x 1.5)	27	503-0183	1	Clamp, Hose
10	526-2140	4	Washer, Flat (M12)	28	509-0290-04	1	Seal, O-Ring (5/16)
11	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)	29	332-2634	2	Clamp, J
12	154-3105	2	Gasket, Exhaust Manifold	30	800-2085	2	Screw, Cap – Hex Head (M10 x 1.5 x 20)
13	154-3106	2	Gasket, Exhaust Manifold	31	503-1136	1	Clamp, Hose
14	155-3102-02	1	Shield, Rain	32	155-3574	1	Elbow, Exhaust
15	155-2062-10	1	Cap, Rain	33	193-0499	1	Sensor, Oxygen
16	526-0018	6	Washer, Flat	34	130-5317-02	1	Guard, Fan
17	800-2033	3	Screw, Cap – Hex Head (M6 x 1.0 x 16)	35	130-6110-02	1	Cover, Guard – Fan
18	127-0412	1	Gasket, Oil Drain	36	818-0231-02	4	Rivet, Pop

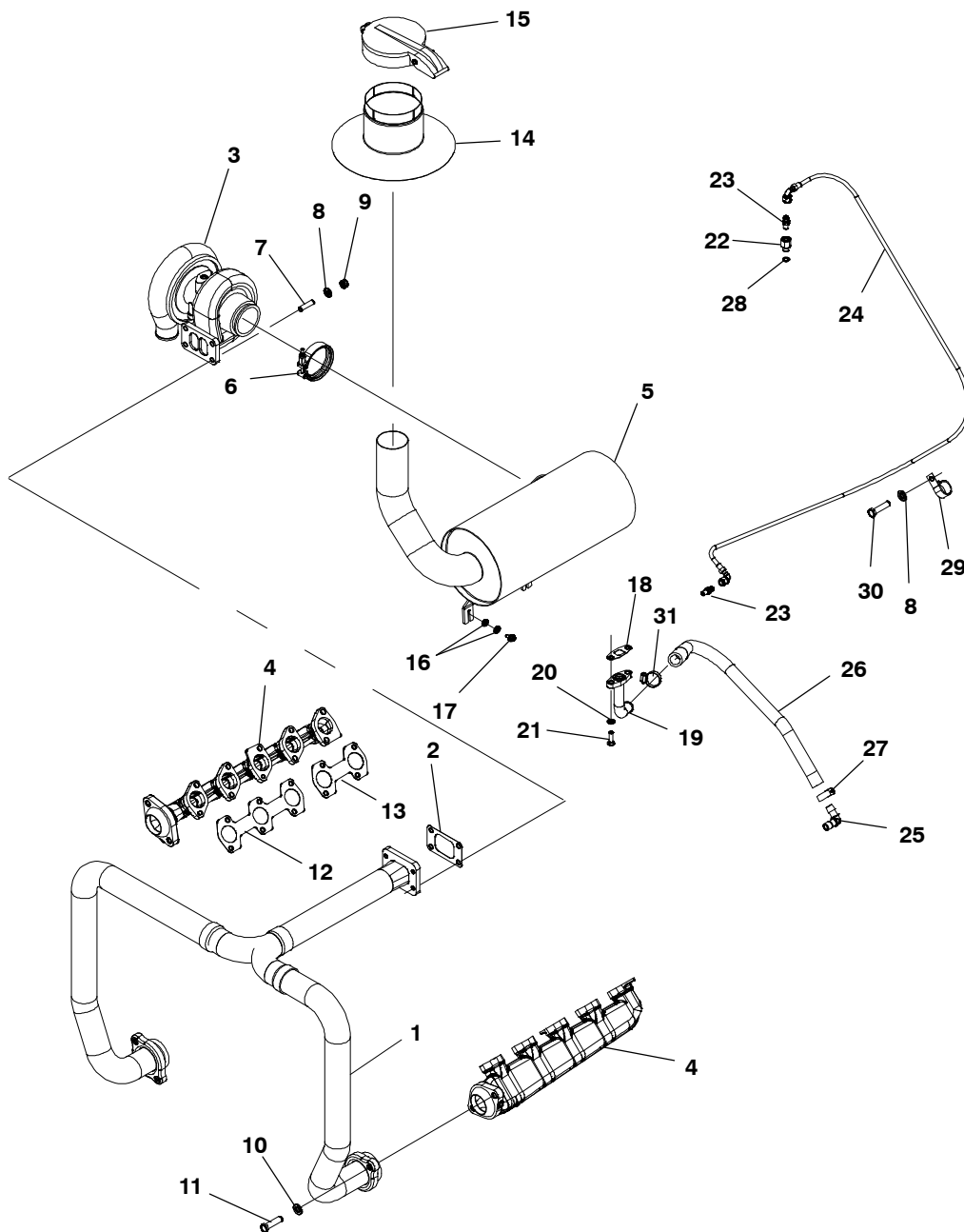
**Exhaust System
Critical
With L102 Low Emissions and F172/F173 Housing
Begin Spec C**



**Exhaust System
Critical
With L102 Low Emissions and F172/F173 Housing
Begin Spec C**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3110	1	Tube, Exhaust	22	520-2407	4	Stud (M10 x 1.5 x 40)
2	127-0324	1	Gasket, Turbocharger	23	526-2120	6	Washer, Flat (M10)
3	145-0795	1	Turbocharger	24	860-2009	4	Nut, Hex (M10 x 1.5)
4	154-3094	2	Manifold, Exhaust	25	332-2634	2	Clamp, J
5	502-1372	1	Elbow, Hose – Barb	26	800-2085	2	Screw, Cap – Hex Head (M10 x 1.5 x 20)
6	503-2236	1	Hose, Turbo – Drain	27	503-1136	1	Clamp, Hose
7	127-0412	1	Gasket, Oil Drain	28	193-0499	1	Sensor, Oxygen
8	145-0818-02	1	Tube, Oil Drain	29	526-0018	6	Washer, Flat
9	850-2008	2	Washer, Lock – Split (M8)	30	800-2033	3	Screw, Cap – Hex Head (M6 x 1.0 x 16)
10	800-2059	2	Screw, Cap – Hex Head (M8 x 1.25 x 30)	31	155-3150-05	1	Silencer – Critical
11	503-0183	1	Clamp, Hose	32	155-3219	2	Gasket, Muffler
12	526-2140	4	Washer, Flat (M12)	33	155-3180	1	Shield, Rain
13	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)	34	155-2305	1	Clamp, Muffler
14	509-0290-04	1	Seal, O-Ring (5/16)	35	155-2062-13	1	Cap, Rain
15	502-1381	1	Connector, Restricted	36	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)
16	502-1240	2	Adapter, Pipe	37	155-3575	1	Transition, Exhaust
17	127-0441	1	Tube, Turbo Feed	38	130-5317-02	1	Guard, Fan
18	155-3573	1	Converter, Catalytic	39	130-6110-02	1	Cover, Guard – Fan
19	155-2565	2	Clamp, V-Band	40	818-0231-02	4	Rivet, Pop
20	154-3105	2	Gasket, Exhaust Manifold				
21	154-3106	2	Gasket, Exhaust Manifold				

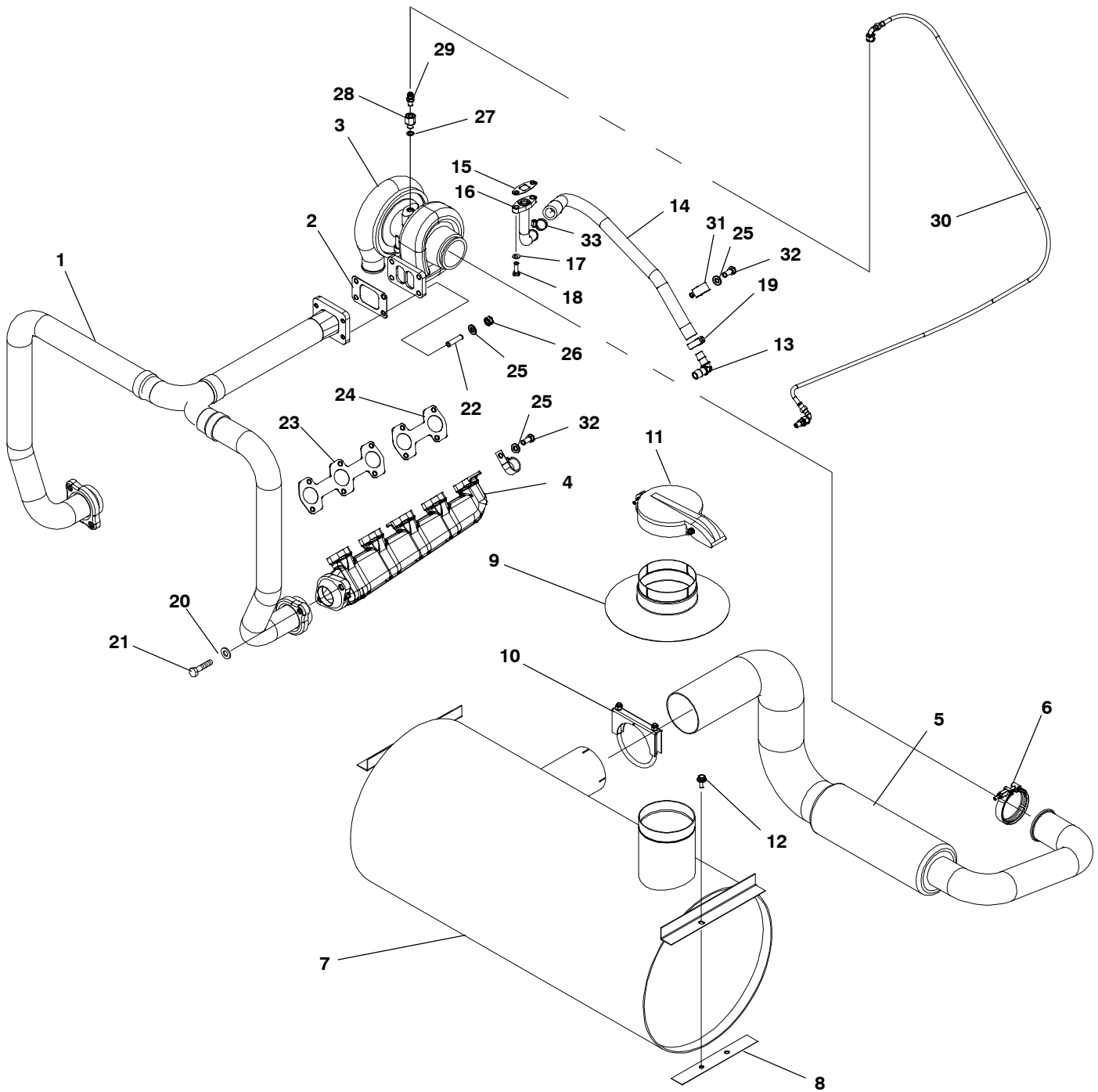
Exhaust System With F182 Housing



Exhaust System With F182 Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3110	1	Tube, Exhaust	18	127-0412	1	Gasket, Oil Drain
2	127-0324	1	Gasket, Turbocharger	19	145-0818-02	1	Tube, Oil Drain
3	145-0795	1	Turbocharger	20	850-2008	2	Washer, Lock – Split (M8)
4	154-3094	2	Manifold, Exhaust	21	800-2059	2	Screw, Cap – Hex Head (M8 x 1.25 x 30)
5	155-3395	1	Muffler, Exhaust	22	502-1381	1	Connector, Restricted
6	155-2565	1	Clamp, V-Band	23	502-1240	2	Adapter, Pipe
7	520-2407	4	Stud (M10 x 1.5 x 40)	24	127-0441	1	Tube, Turbo Feed
8	526-2120	6	Washer, Flat (M10)	25	502-1372	1	Elbow, Hose – Barb
9	860-2009	4	Nut, Hex (M10 x 1.5)	26	503-2236	1	Hose, Turbo – Drain
10	526-2140	4	Washer, Flat (M12)	27	503-0183	1	Clamp, Hose
11	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)	28	509-0290-04	1	Seal, O-Ring (5/16)
12	154-3105	2	Gasket, Exhaust Manifold	29	332-2634	2	Clamp, J
13	154-3106	2	Gasket, Exhaust Manifold	30	800-2085	2	Screw, Cap – Hex Head (M10 x 1.5 x 20)
14	155-3102-02	1	Shield, Rain	31	503-1136	1	Clamp, Hose
15	155-2062-10	1	Cap, Rain				
16	526-0018	4	Washer, Flat				
17	800-2033	2	Screw, Cap – Hex Head (M6 x 1.0 x 16)				

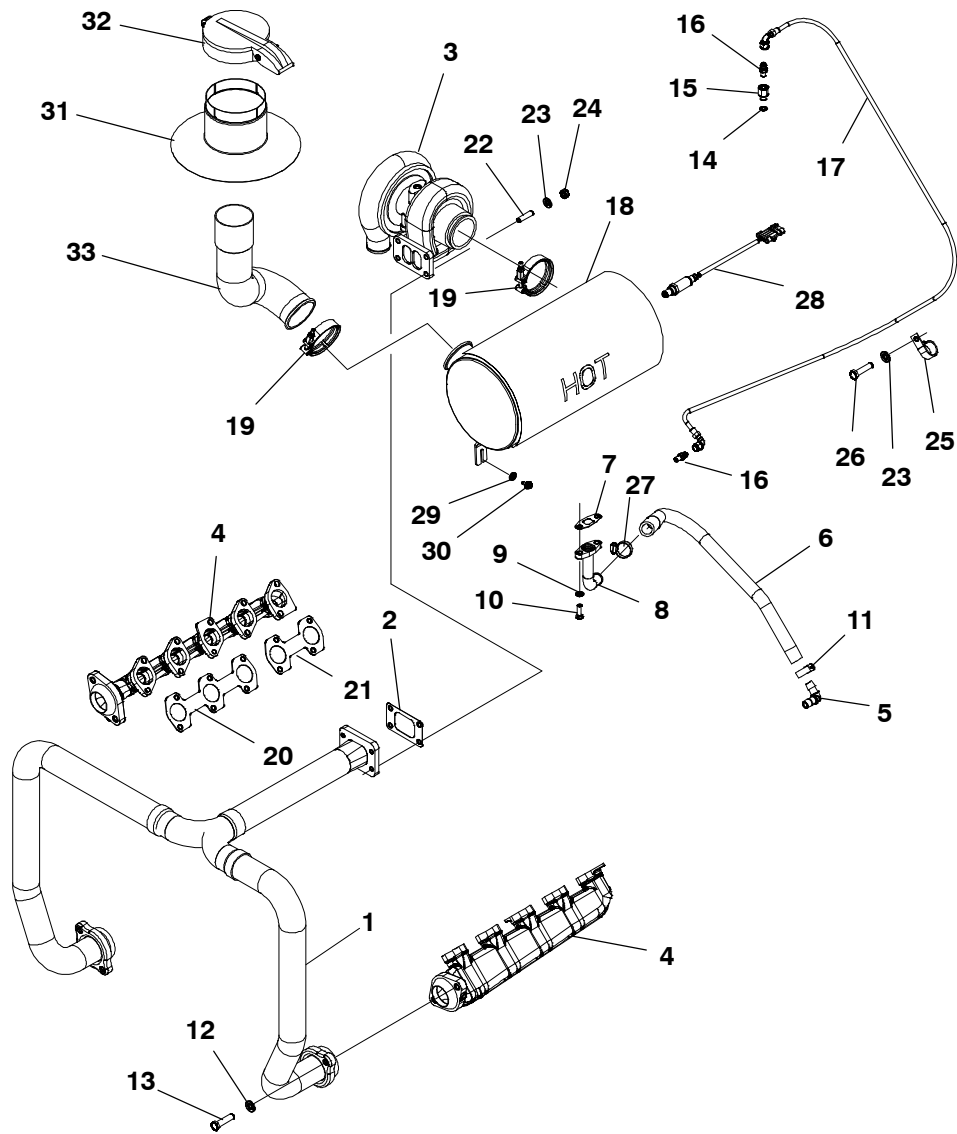
Exhaust System F172/F173 Housing



Exhaust System F172/F173 Housing

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	127-0324	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	155-3150-05	1	Silencer – Critical	25	526-2120	6	Washer, Flat (M10)
8	155-3219	2	Gasket, Muffler	26	860-2009	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	332-2634	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				
17	850-2008	2	Washer, Lock – Split (M8)				
18	800-2059	2	Screw, Cap – Hex Head (M8 x 1.25 x 30)				

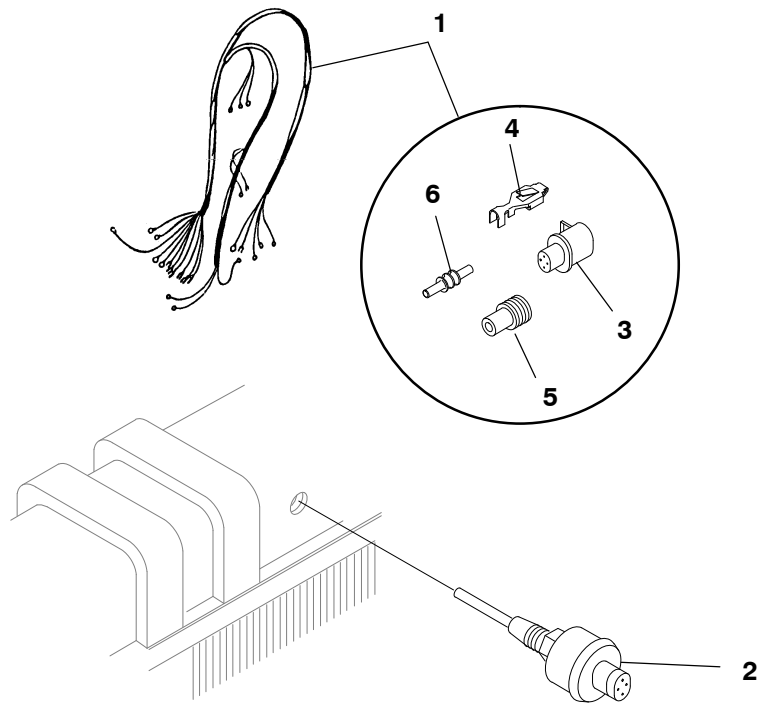
Exhaust System **With L102 Low Emissions and F182 Housing** **Begin Spec C**



Exhaust System
With L102 Low Emissions and F182 Housing
Begin Spec C

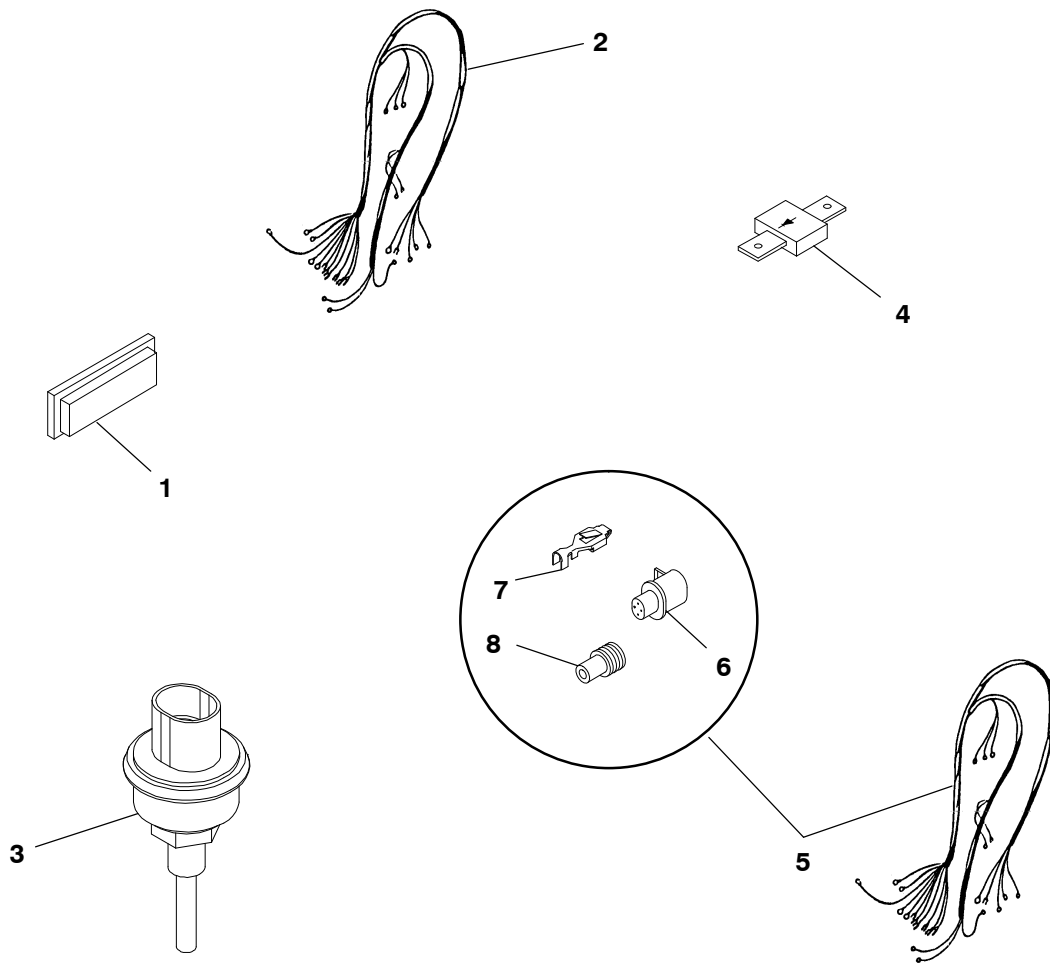
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3110	1	Tube, Exhaust	18	155-3573	1	Converter, Catalytic
2	127-0324	1	Gasket, Turbocharger	19	155-2565	2	Clamp, V-Band
3	145-0795	1	Turbocharger	20	154-3105	2	Gasket, Exhaust Manifold
4	154-3094	2	Manifold, Exhaust	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	860-2009	4	Nut, Hex (M10 x 1.5)
8	145-0818-02	1	Tube, Oil Drain	25	332-2634	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	193-0499	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	800-2033	3	Screw, Cap – Hex Head (M6 x 1.0 x 16)
14	509-0290-04	1	Seal, O-Ring (5/16)	31	155-3102-02	1	Shield, Rain
15	502-1381	1	Connector, Restricted	32	155-2062-10	1	Cap, Rain
16	502-1240	2	Adapter, Pipe	33	155-3574	1	Elbow, Exhaust
17	127-0441	1	Tube, Turbo Feed				

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



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

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

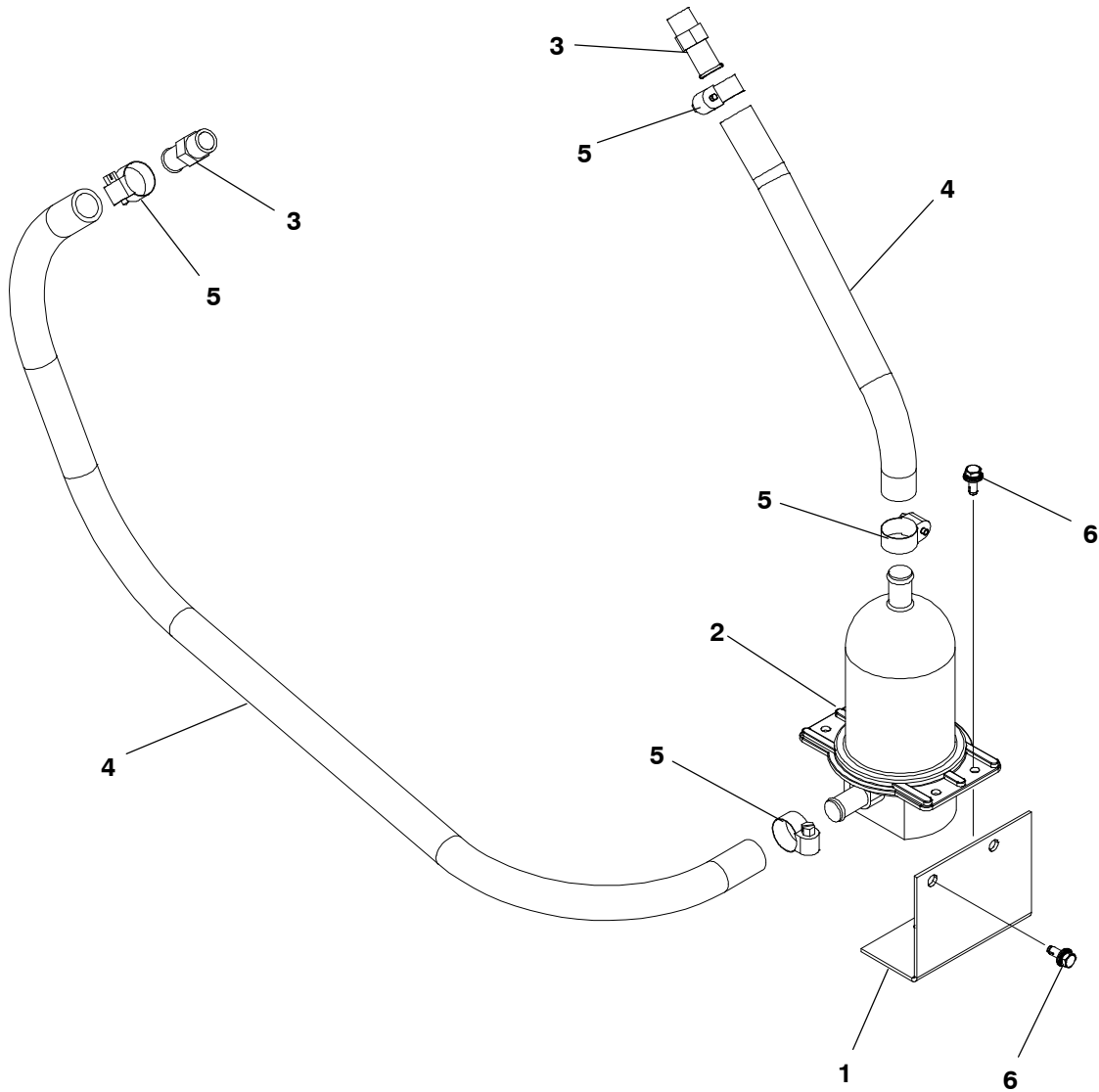


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	322-0431-07	1	Lens, Replacement
2	338-3035-01	1	Harness, Low Coolant Level
3	193-0468	1	Sender, Low Coolant Level
4	357-0030	1	Rectifier, Silicon
5	338-3594	1	Harness, Pigtail (Includes Parts Marked *)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	323-1765	1	*Housing, Connector (4 Pin)
7	323-1709	4	*Socket, Contact (Used in S3)
8	323-1708	4	*Seal, Cable

* - Parts Included in 338-3594 Pigtail Harness

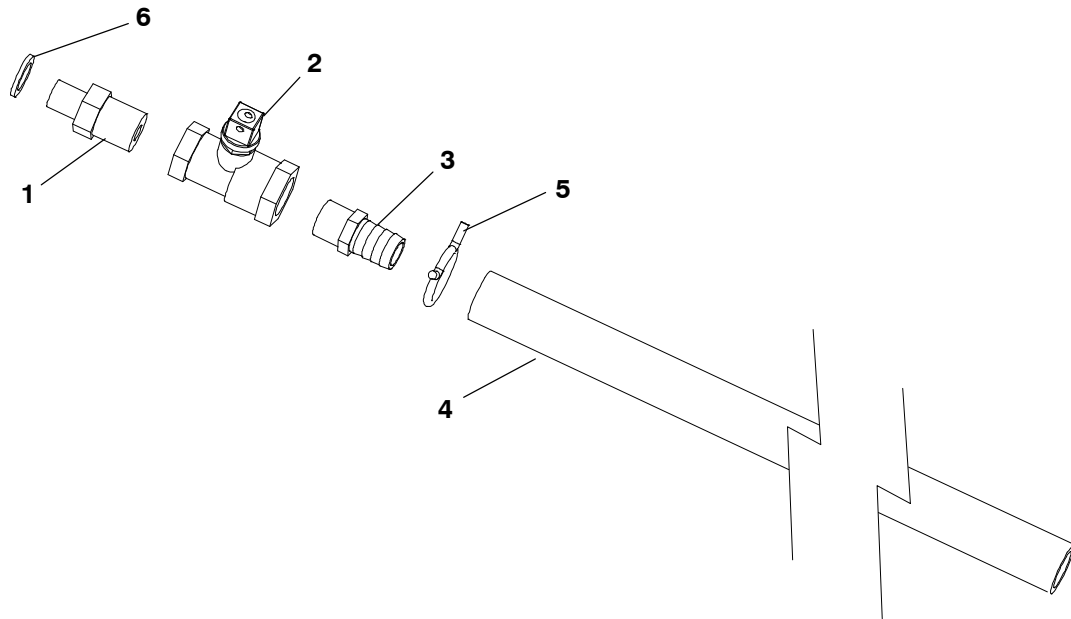
Coolant Heater



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

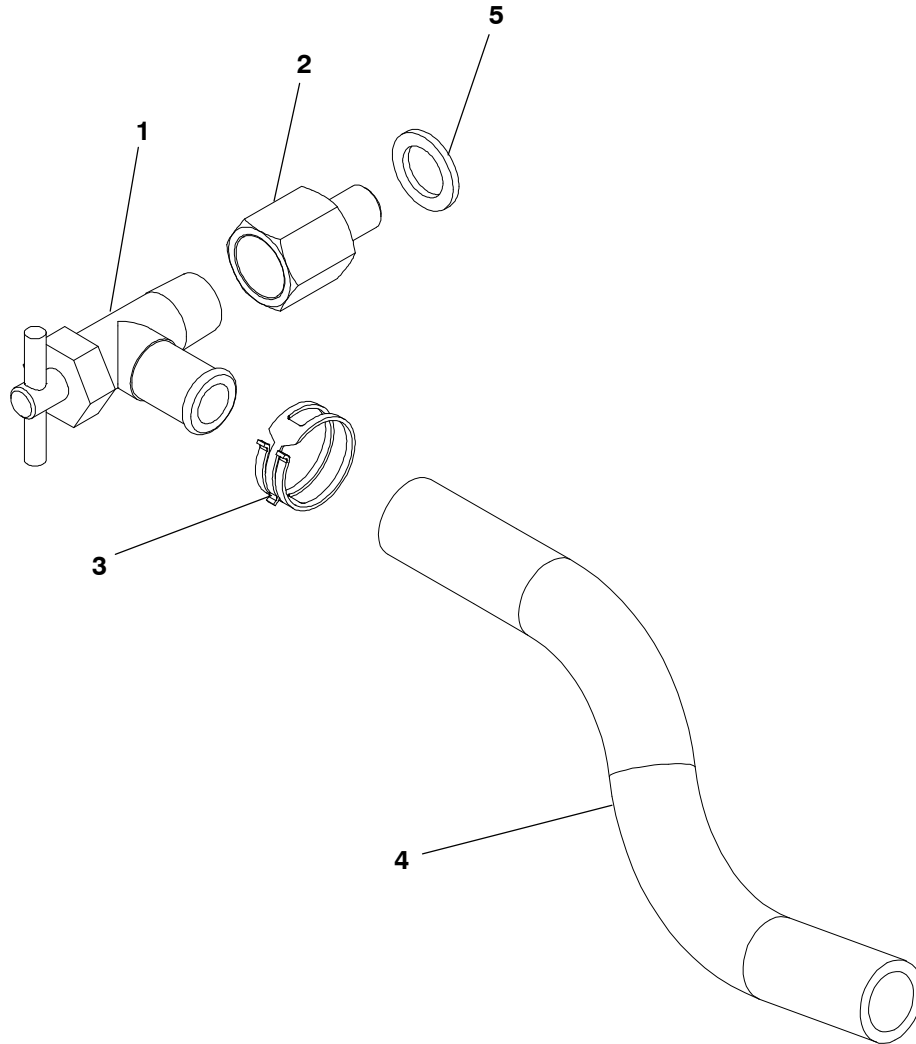
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	503-0386	-	Hose, Heater - Bulk (Order by the Foot - 5 Feet Required)
5	503-0183	4	Clamp, Hose
6	821-6006-01	4	Screw, Hex Head - Stainless Steel (M6 x 1 x 16)

Oil Drain Extension Spec A-B



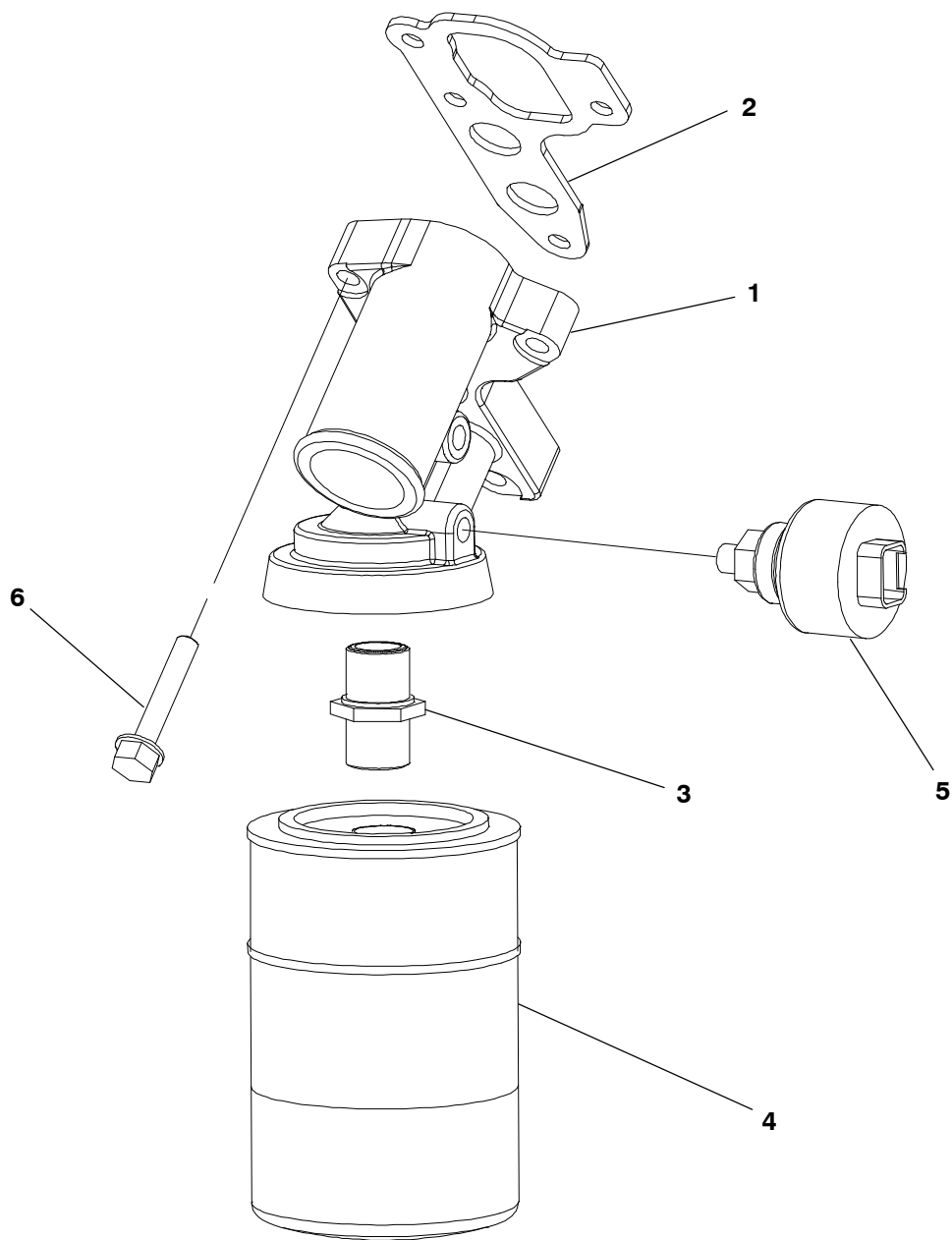
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-1054	1	Adapter, Oil Drain	5	503-0197	1	Clip, Hose
2	504-0011	1	Valve, Shutoff	6	102-1320	1	Gasket, Oil Drain
3	502-0827	1	Barb, Hose (1/2 x 3/4)				
4	503-0098	-	Hose, Oil Drain - Bulk (Order by the Foot - 2 Feet Required)				

Oil Drain Extension Begin Spec C



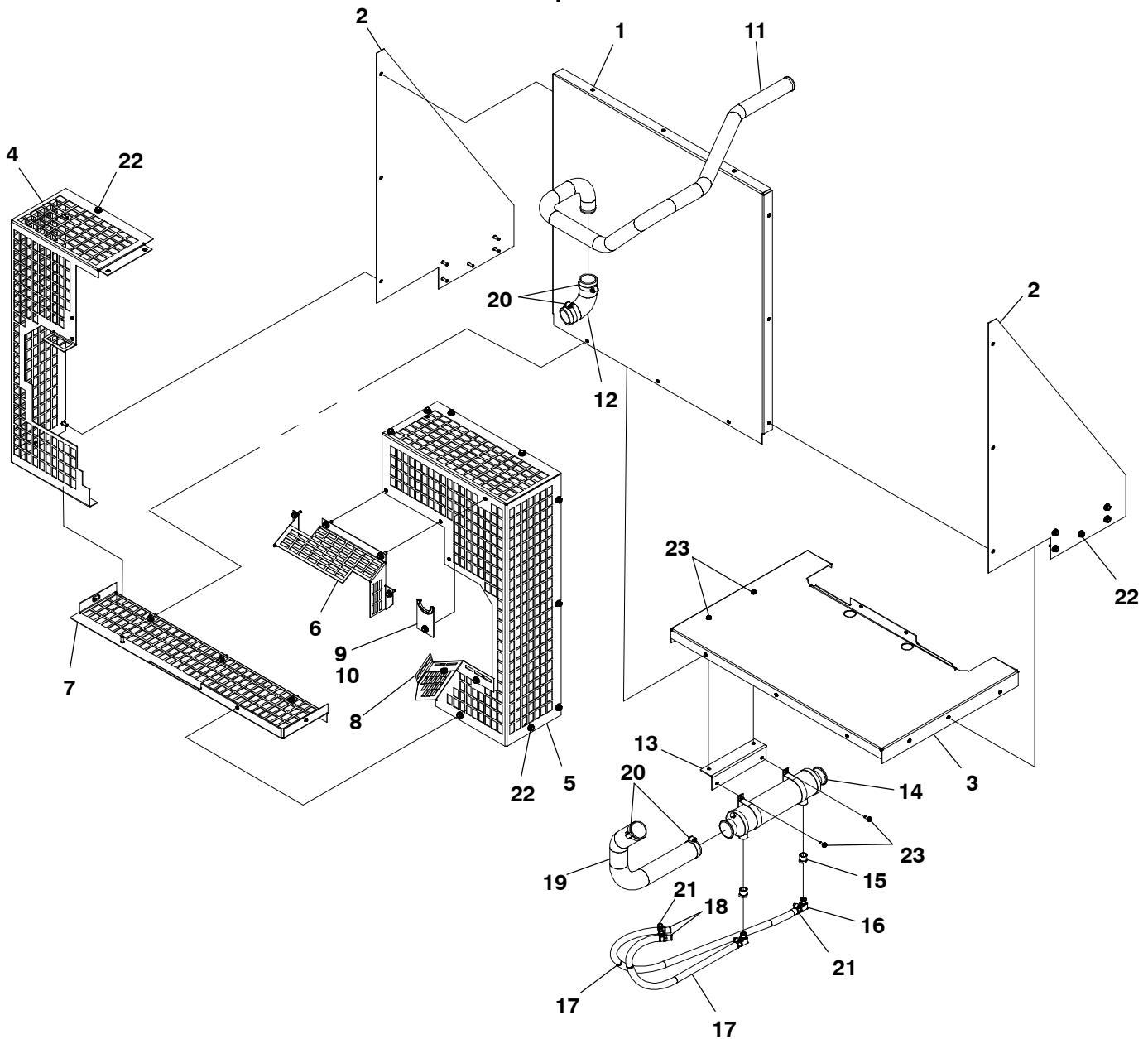
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	504-0176	1	Valve, Oil Drain	4	503-1660-08	1	Hose, Oil Drain (24")
2	102-1503-04	1	Adapter, Oil Drain	5	102-1320	1	Gasket, Oil Drain
3	503-0131	1	Clamp, Hose				

Oil Filter



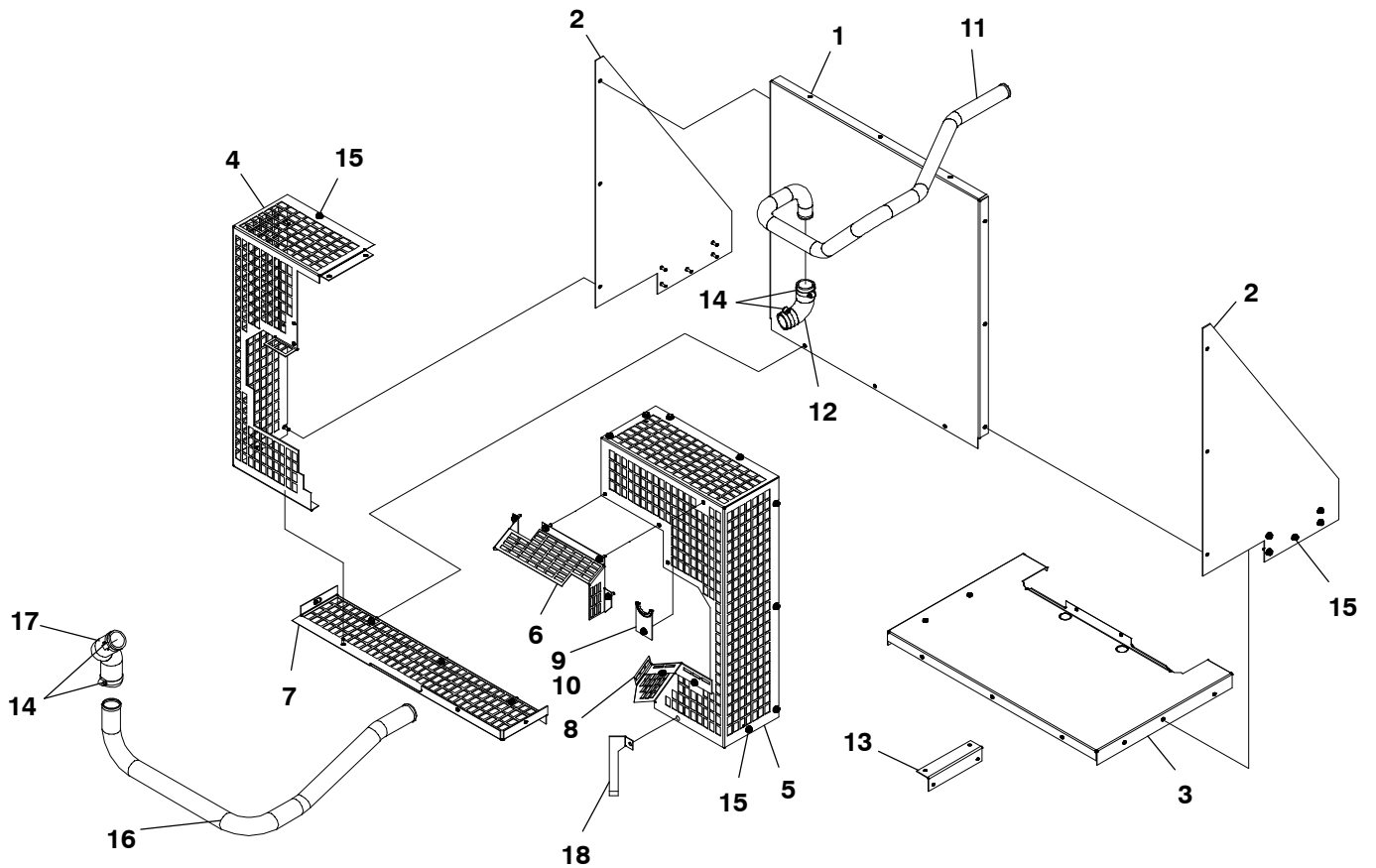
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0837	1	Adapter, Oil Filter	5	193-0448	1	Sender, Oil Pressure
2	122-0842	1	Gasket, Oil Filter Adapter	6	815-0970	4	Screw, Hex - Flange Head (M8 x 1.25 x 40)
3	122-0838-02	1	Stud, Oil Filter				
4	122-0841	1	Filter, Oil				

Remote Radiator Spec A-B



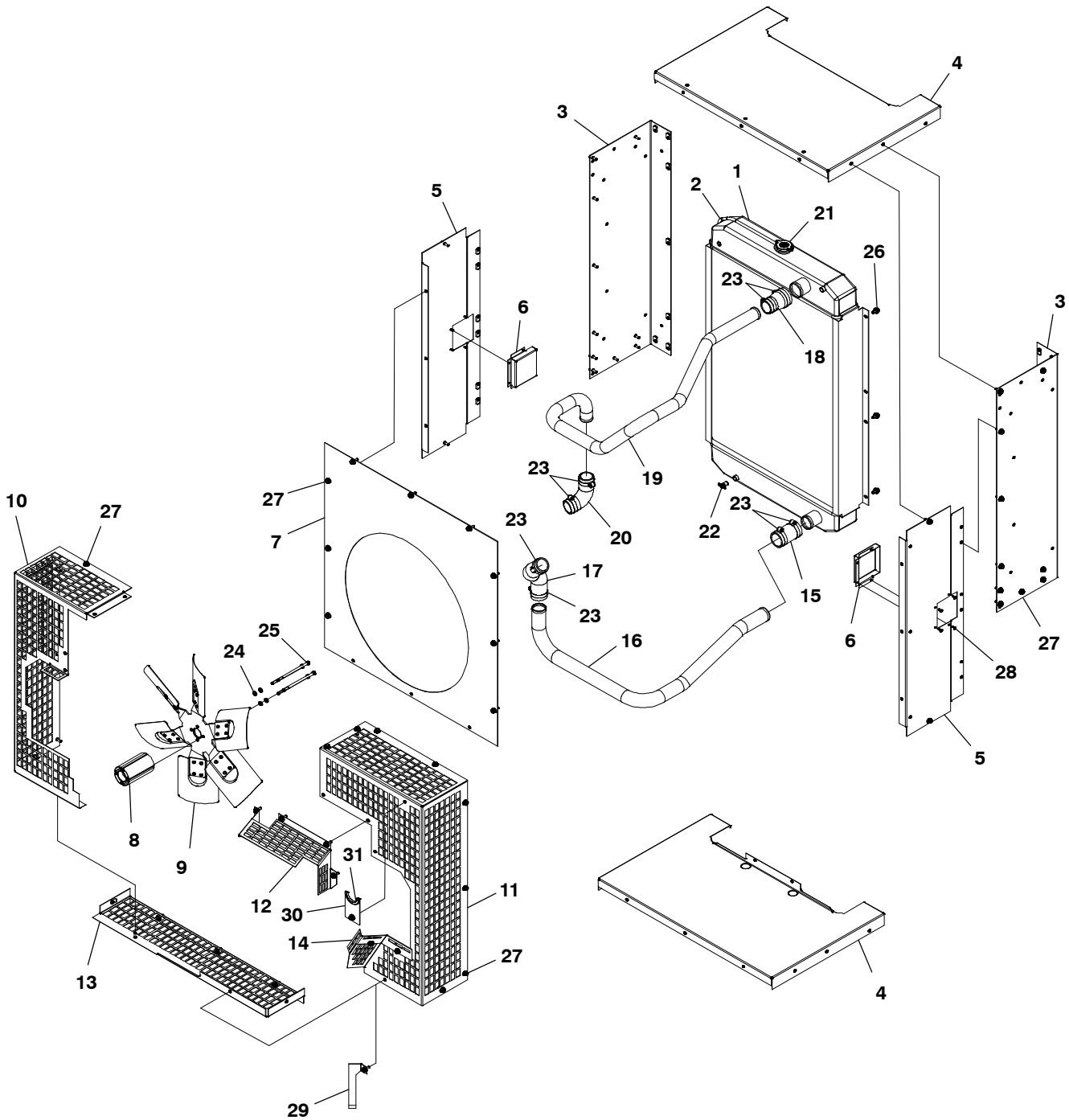
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5410-02	1	Panel, Radiator Housing – Front	13	102-1502-02	1	Bracket, Oil Cooler
2	130-5409-02	2	Panel, Radiator Housing – Side	14	102-1238	1	Cooler, Oil
3	130-5397-02	1	Cover, Shroud – Bottom	15	505-0019	2	Bushing, Reducer (1/2 x 3/8)
4	130-5317-02	1	Guard, Fan – Left Side	16	502-0237	2	Elbow – 90° (.50 x 3/8-18)
5	130-5316-02	1	Guard, Fan – Right Side	17	503-1101	-	Hose, Hydraulic – Bulk (Order by the Foot – 6 Feet Required)
6	130-5320-02	1	Guard, Alternator	18	502-1168	2	Connector, Hose (3/8 x 1/2)
7	130-5318-02	1	Guard, Fan – Lower	19	130-5413	1	Hose, Radiator – Flexible
8	130-5306-02	1	Guard, Fan	20	503-0465	4	Clamp, Hose
9	130-5430-02	1	Support, Tube	21	503-0446	4	Clamp, Hose
10	508-0305-02	-	Edging – Bulk (Order by the Foot – 1 Foot Required)	22	821-6003-02	36	Screw, Hex Head (M8 x 1.25 x 20)
11	130-5362-02	1	Tube, Inlet	23	821-6002-02	4	Screw, Hex Head (M6 x 1 x 16)
12	130-5360	1	Hose, Inlet				

Remote Radiator Begin Spec C



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	11	130-5362-02	1	Tube, Inlet
2	130-5409-02	2	Panel, Radiator Housing – Side	12	130-5360	1	Hose, Inlet
3	130-5397-02	1	Cover, Shroud – Bottom	13	102-1502-02	1	Bracket, Oil Cooler
4	130-5317-02	1	Guard, Fan – Left Side	14	503-0465	4	Clamp, Hose
5	130-5316-02	1	Guard, Fan – Right Side	15	821-6003-02	36	Screw, Hex Head (M8 x 1.25 x 20)
6	130-5320-02	1	Guard, Alternator	16	130-5364-02	1	Tube, Outlet
7	130-5318-02	1	Guard, Fan – Lower	17	130-5363	1	Hose, Outlet
8	130-5306-02	1	Guard, Fan	18	130-5319-02	1	Hose, Hanger
9	130-5430-02	1	Support, Tube				
10	508-0305-02	–	Edging – Bulk (Order by the Foot – 1 Foot Required)				

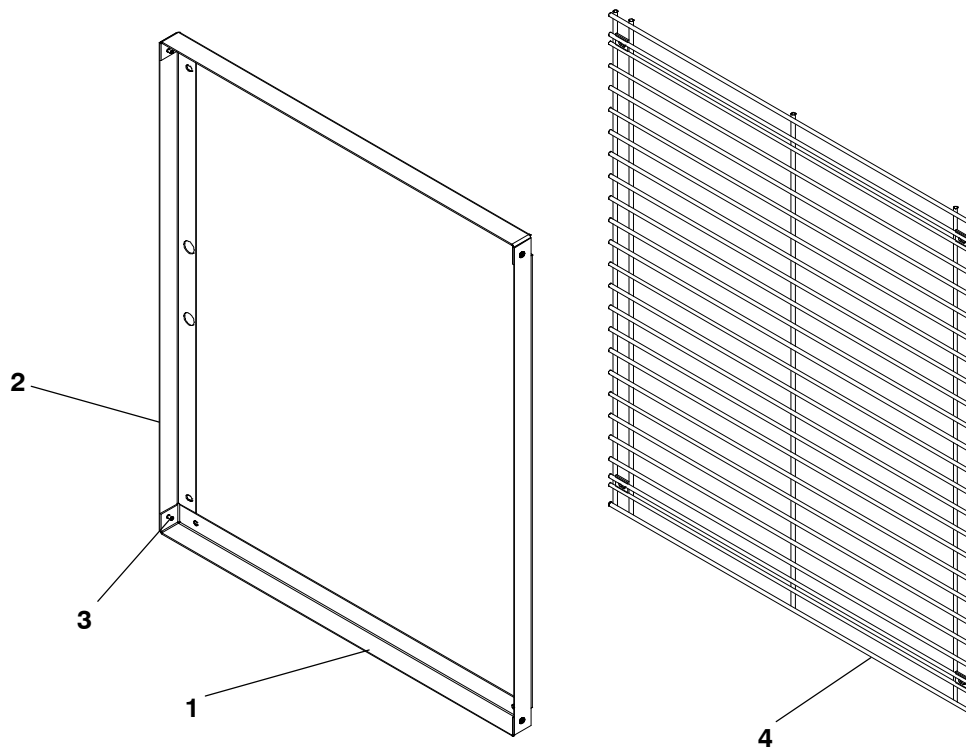
Radiator



Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Radiator (Includes Over Flow Hose)	16	130-5364-02	1	Tube, Outlet
	130-4691-01	1	3 Row	17	130-5363	1	Hose, Outlet
	130-4691-02	1	4 Row	18	130-5365	1	Hose, Inlet
2	503-0276	-	Hose, Over Flow - Bulk (Order by the Foot - 5 Feet Required)	19	130-5362-02	1	Tube, Inlet
3	130-4694	2	Side, Housing	20	130-5360	1	Hose, Inlet
4	130-5313-02	2	Cover, Shroud	21	130-3721-01	1	Cap, Radiator (15 PSI)
5	130-5398-02	2	Panel, Shroud - Side	22	504-0003	1	Cock, Drain
6	130-5399-02	2	Cover, Shroud - Latch	23	503-0465	8	Clamp, Hose
7	130-5312-02	1	Shroud - 24" Fan	24	526-2101	4	Washer, Flat (M8)
8	130-5213-01	1	Spacer, Fan	25	800-2077	4	Screw, Cap - Hex Head (M8 x 1.25 x 150)
9	130-5287	1	Fan, Radiator	26	821-6007-02	6	Screw, Hex Head (Stainless Steel) (M8 x 1.25 x 20)
10	130-5317-02	1	Guard, Fan - Right Hand	27	821-6003-02	59	Screw, Hex Head (M8 x 1.25 x 20)
11	130-5316-02	1	Guard, Fan - Left Hand	28	818-0231-02	8	Rivet, Pop
12	130-5320-02	1	Guard, Alternator	29	130-5319-02	1	Hanger, Hose (Lower)
13	130-5318-02	1	Guard, Fan - Lower	30	130-5430-02	1	Support, Tube
14	130-5306-02	1	Guard, Fan	31	508-0305-02	-	Edging - Bulk (Order by the Foot - 1 Foot Required)
15	503-1554	1	Hose, Radiator				

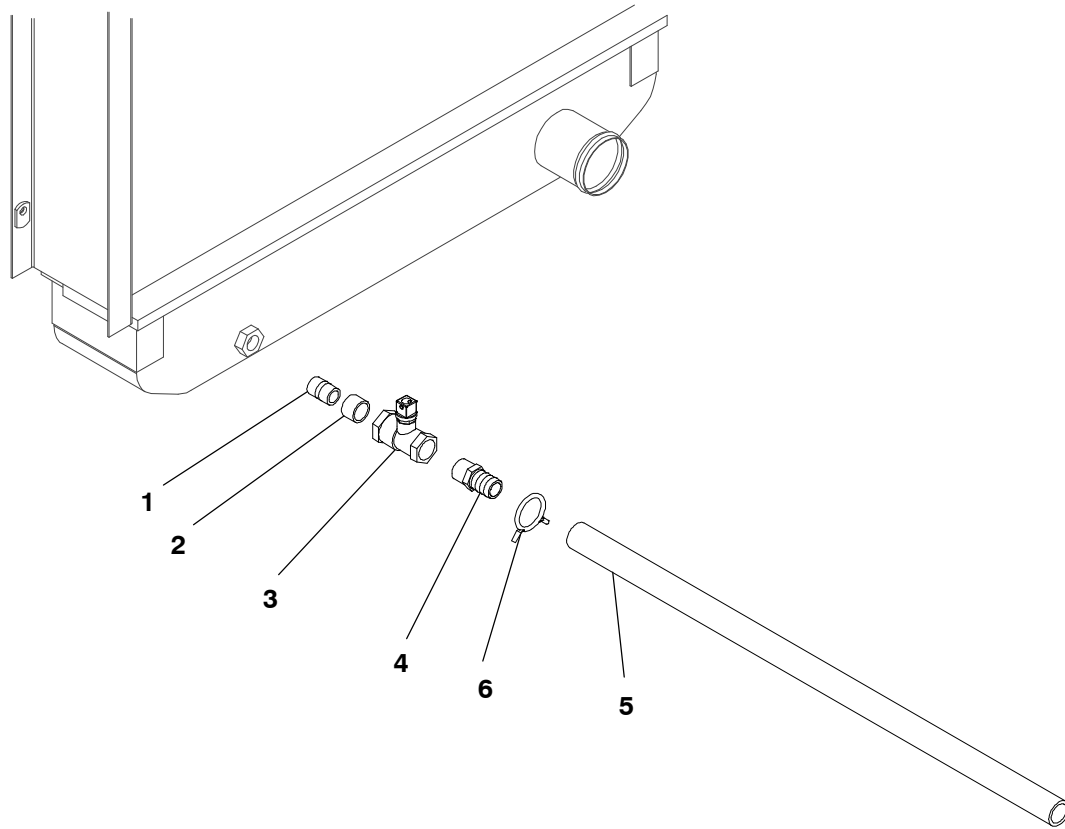
Duct Adapter



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

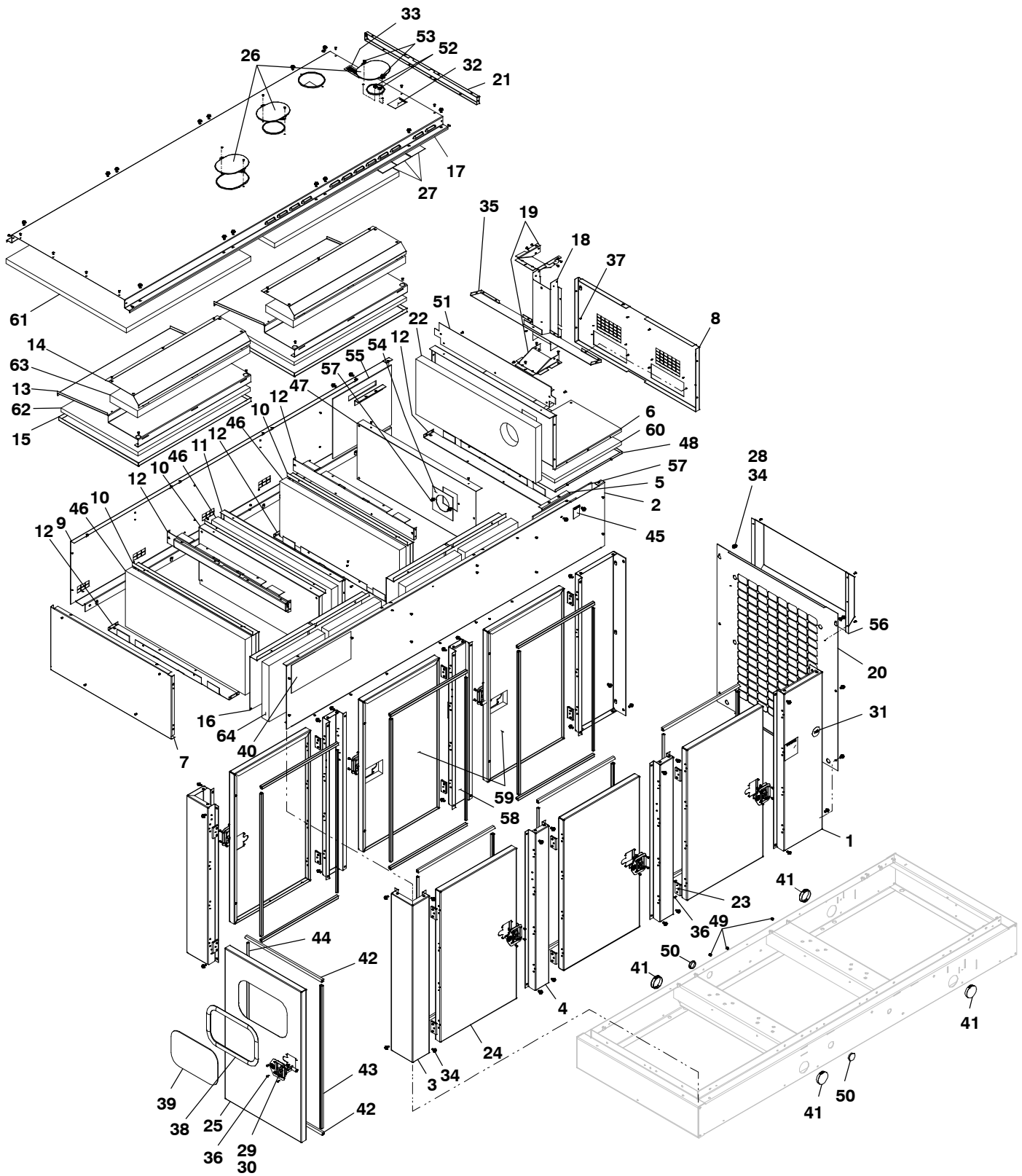
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	818-0231-02	4	Rivet, Pop
4	130-4735	1	Grille

Radiator Drain Extension



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-0085	1	Nipple, Pipe – Brass (3/8")	4	502-0827	1	Barb, Hose (1/2 x 3/4)
2	505-0117	1	Bushing, Flush (3/8" X 1/2")	5	503-1195	1	Hose, Drain (24")
3	504-0011	1	Valve, Shutoff (1/2")	6	503-0197	1	Clamp, Hose

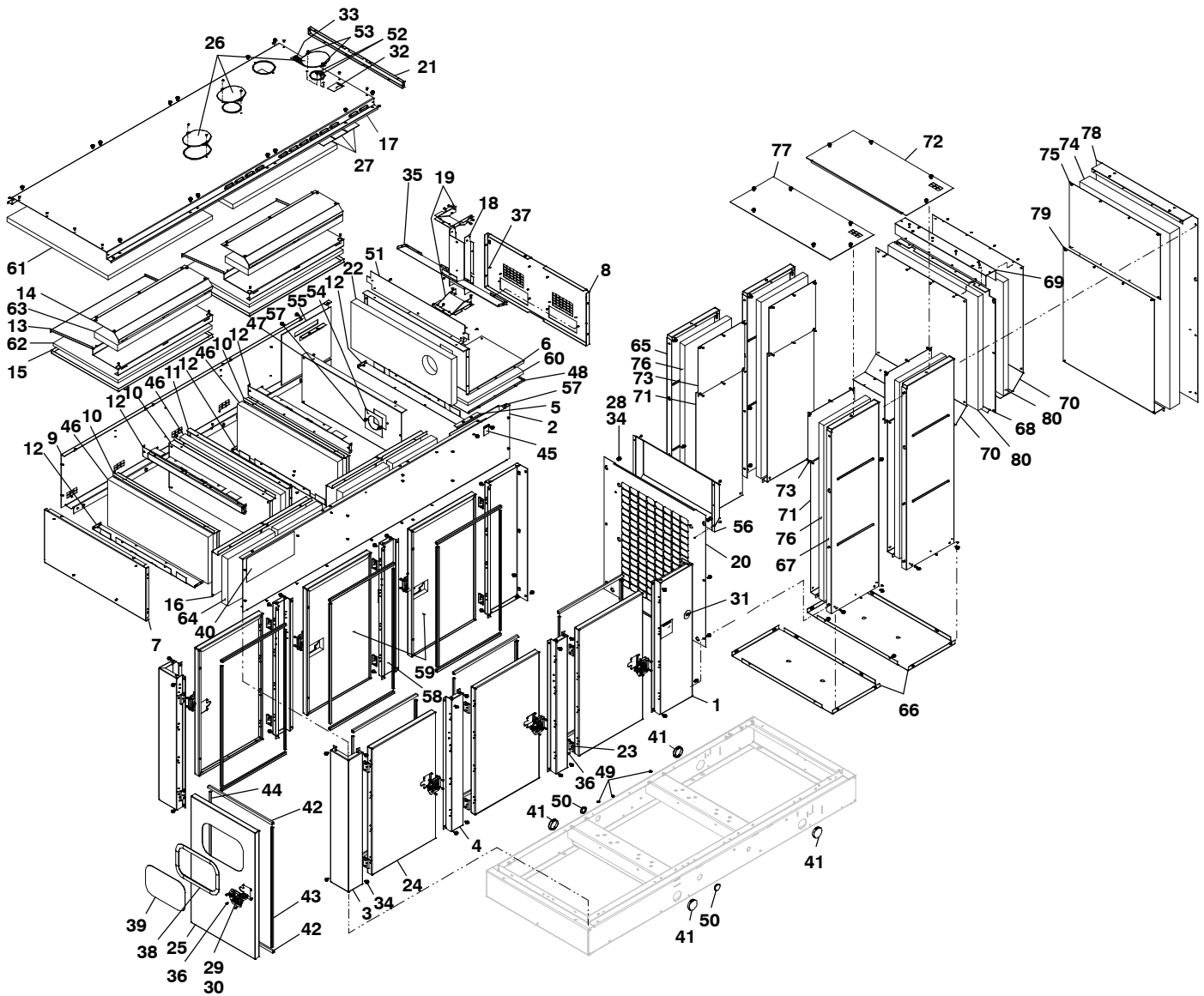
F172 Enclosure



F172 Enclosure

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-5908	2	Panel, Side – Radiator Housing	32	098-4730	1	Label, Warning
2	405-5951	1	Extension, Side – Left Hand	33	098-5429	1	Label, Coolant Fill
3	405-5916	2	Post, Corner	34	821-6007-02	54	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)
4	405-5744	4	Post, Housing – Center				Baffle, Recirculation
5	405-5998	2	Support, Muffler	35	405-5959	1	Rivet, Pop (3/16")
6	405-5966	1	Box, Muffler	36	818-0231-02	164	Rivet, Pop (1/8")
7	405-5953	1	Panel, End – Roof	37	818-0237-01	39	Weatherstrip – Bulk (Order by the foot – 5 Feet Required) – Units With Window
8	405-5952	1	Panel, End – Roof	38	895-0363	–	Window, Control
9	405-5950	1	Extension, Side – Right Hand				Label, Logo
10	405-8307	3	Retainer, Insulation	39	319-2653	1	Plug, Hole
11	405-5956	1	Support, Center	40	098-7902-05	3	Seal, Weather
12	405-5957	5	Angle	41	517-0322	4	Seal, Weather
13	405-5954	2	Baffle, Air	42	895-0384	14	Seal, Weather
14	405-8305	2	Retainer, Insulation	43	895-0385	7	Label, Caution
15	405-8304	2	Retainer, Insulation	44	895-0386	7	Fiberglass
16	405-8311	2	Retainer, Insulation	45	098-7451	2	Retainer, Insulation
17	405-5926	1	Roof	46	405-5841	3	Retainer, Insulation
18	405-5963	1	Tube, Fill – Radiator	47	405-8312	1	Plug, Hole (.375")
19	405-6003	2	Box, Radiator Fill	48	405-8306	1	Plug, Hole (1.75")
20	405-5909	1	Panel, Front – Radiator Housing	49	517-0131	3	Air Dam
21	405-5917	2	Panel, End – Roof	50	517-0138-07	2	Nut, Captive Floating (M6 x 1.0)
22	405-6109	1	Fiberglass	51	405-6002	1	Screw, Hex Head – Stainless Steel (M6 x 1 x 16)
23	406-0831	14	Hinge, Housing	52	870-0504	2	Cover, Exhaust – Inlet
24			Door, Housing	53	821-6006-01	2	Washer, Flat
	405-5902	7	Without Window				Baffle, Air – Discharge
	405-5902	6	With Window	54	405-5986	1	Insulation, Foam
25	405-5903	1	Door, Housing – With Window	55	526-0011	2	Fiberglass
26	155-3238	3	Cover, Exhaust	56	405-5962	1	Insulation, Door
27	130-4848	–	Insulation, Exhaust – Bulk (Order by the Foot – 10 Feet Required)	57	128-0252	2	Fiberglass
				58	405-6001-02	2	Fiberglass
28	526-0451	4	Washer, Flat – Stainless Steel	59	405-5734	4	Fiberglass
29	406-0972-01	7	Latch, Door	60	405-6005	1	Fiberglass
30	406-0782	7	Key, Replacement – Fits 406-0972-01 Latch	61	405-6001-01	2	Fiberglass
				62	405-6000-03	2	Fiberglass
31	098-4500	2	Label, Prototype	63	405-6000-02	2	Fiberglass
				64	405-5997	2	Fiberglass

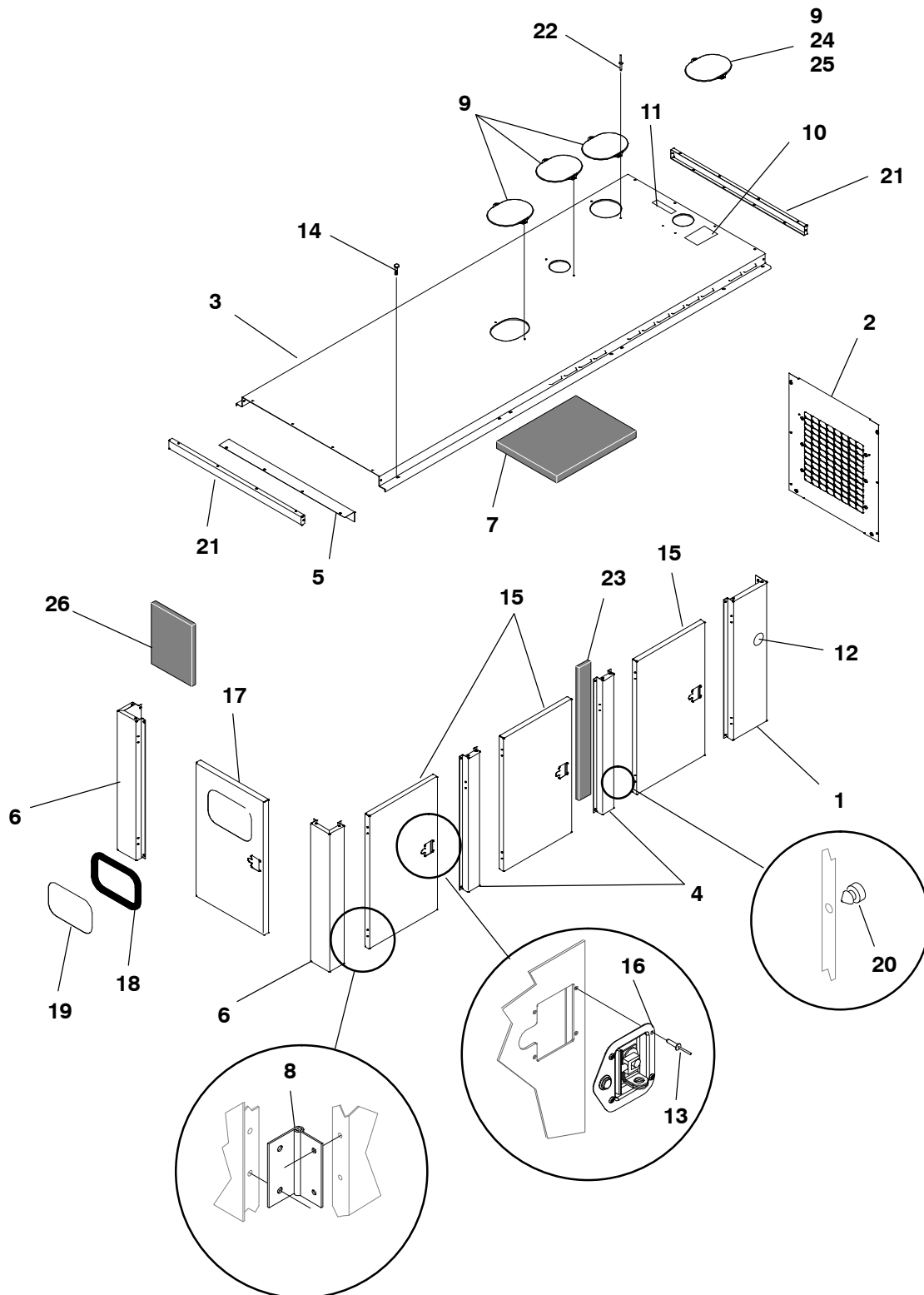
F173 Enclosure



F173 Enclosure

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-5908	2	Panel, Side – Radiator Housing	39	319-2653	1	Window, Control
2	405-5951	1	Extension, Side – Left Hand	40	098-7902-05	3	Label, Logo
3	405-5916	2	Post, Corner	41	517-0322	4	Plug, Hole
4	405-5744	4	Post, Housing – Center	42	895-0384	14	Seal, Weather
5	405-5998	2	Support, Muffler	43	895-0385	7	Seal, Weather
6	405-5966	1	Box, Muffler	44	895-0386	7	Seal, Weather
7	405-5953	1	Panel, End – Roof	45	098-7451	2	Label, Caution
8	405-5952	1	Panel, End – Roof	46	405-5841	3	Fiberglass
9	405-5950	1	Extension, Side – Right Hand	47	405-8314	1	Retainer, Insulation
10	405-5961	3	Retainer, Insulation	48	405-8306	1	Retainer, Insulation
11	405-5956	1	Support, Center	49	517-0131	3	Plug, Hole (.375")
12	405-5957	5	Angle	50	517-0138-07	2	Plug, Hole (1.75")
13	405-5954	2	Baffle, Air	51	405-6002	1	Air Dam
14	405-8305	2	Retainer, Insulation	52	870-0504	2	Nut, Captive Floating (M6 x 1.0)
15	405-8304	2	Retainer, Insulation	53	821-6006-01	2	Screw, Hex Head – Stainless Steel (M6 x 1 x 16)
16	405-8311	2	Retainer, Insulation	54	405-5986	1	Cover, Exhaust – Inlet
17	405-5926	1	Roof	55	526-0011	2	Washer, Flat
18	405-5963	1	Tube, Fill – Radiator	56	405-5962	1	Baffle, Air – Discharge
19	405-6003	2	Box, Radiator Fill	57	128-0252	2	Insulation, Foam
20	405-5909	1	Panel, Front – Radiator Housing	58	405-6001-02	2	Fiberglass
21	405-5917	2	Panel, End – Roof	59	405-5734	4	Insulation, Door
22	405-6109	1	Fiberglass	60	405-6005	1	Fiberglass
23	406-0831	14	Hinge, Housing	61	405-6001-01	2	Fiberglass
24			Door, Housing	62	405-6000-03	2	Fiberglass
	405-5902	7	Without Window	63	405-6000-02	2	Fiberglass
	405-5902	6	With Window	64	405-5997	2	Fiberglass
25	405-5903	1	Door, Housing – With Window	65	405-5991-01	2	Panel, Side – Discharge (Right Hand)
26	155-3238	3	Cover, Exhaust	66	405-8731-02	2	Panel, Enclosure
27	130-4848	–	Insulation, Exhaust – Bulk (Order by the Foot – 10 Feet Required)	67	405-5991-02	2	Panel, Side – Discharge (Left Hand)
28	526-0451	4	Washer, Flat – Stainless Steel	68	405-5992	1	Panel, Center
29	406-0972-01	7	Latch, Door	69	405-5993	1	Cover, Duct
30	406-0782	7	Key, Replacement – Fits 406-0972-01 Latch	70	405-8308	2	Retainer, Insulation
31	098-4500	2	Label, Prototype	71	405-8310	4	Retainer, Insulation
32	098-4730	1	Label, Warning	72	405-6010	1	Cover, Air Discharge Box (Top)
33	098-5429	1	Label, Coolant Fill	73	405-8313	4	Retainer, Insulation
34	821-6007-02	94	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)	74	405-6000-07	1	Fiberglass
35	405-5959	1	Baffle, Recirculation	75	405-8314	1	Retainer, Insulation
36	818-0231-02	162	Rivet, Pop (3/16")	76	405-6000-04	4	Fiberglass
37	818-0237-01	105	Rivet, Pop (1/8")	77	405-5989	1	Cover, Air Discharge Box (Top)
38	895-0363	–	Weatherstrip – Bulk (Order by the foot – 5 Feet Required) – Units With Window	78	405-5990	1	Cover, Air Discharge
				79	405-8309	1	Retainer, Insulation
				80	405-6000-01	2	Fiberglass

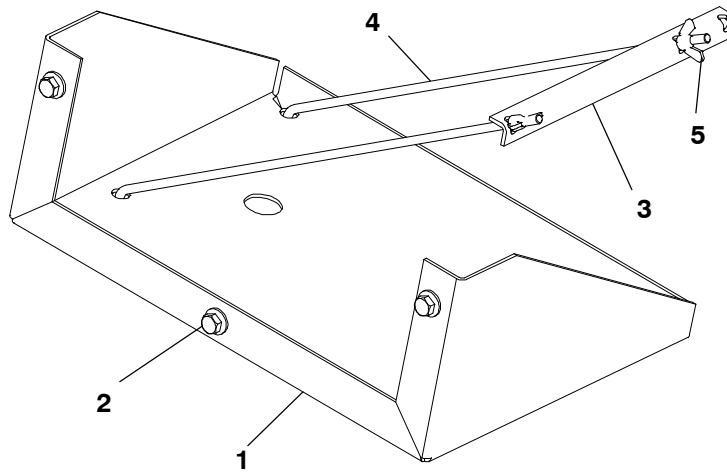
F182 Enclosure



F182 Enclosure

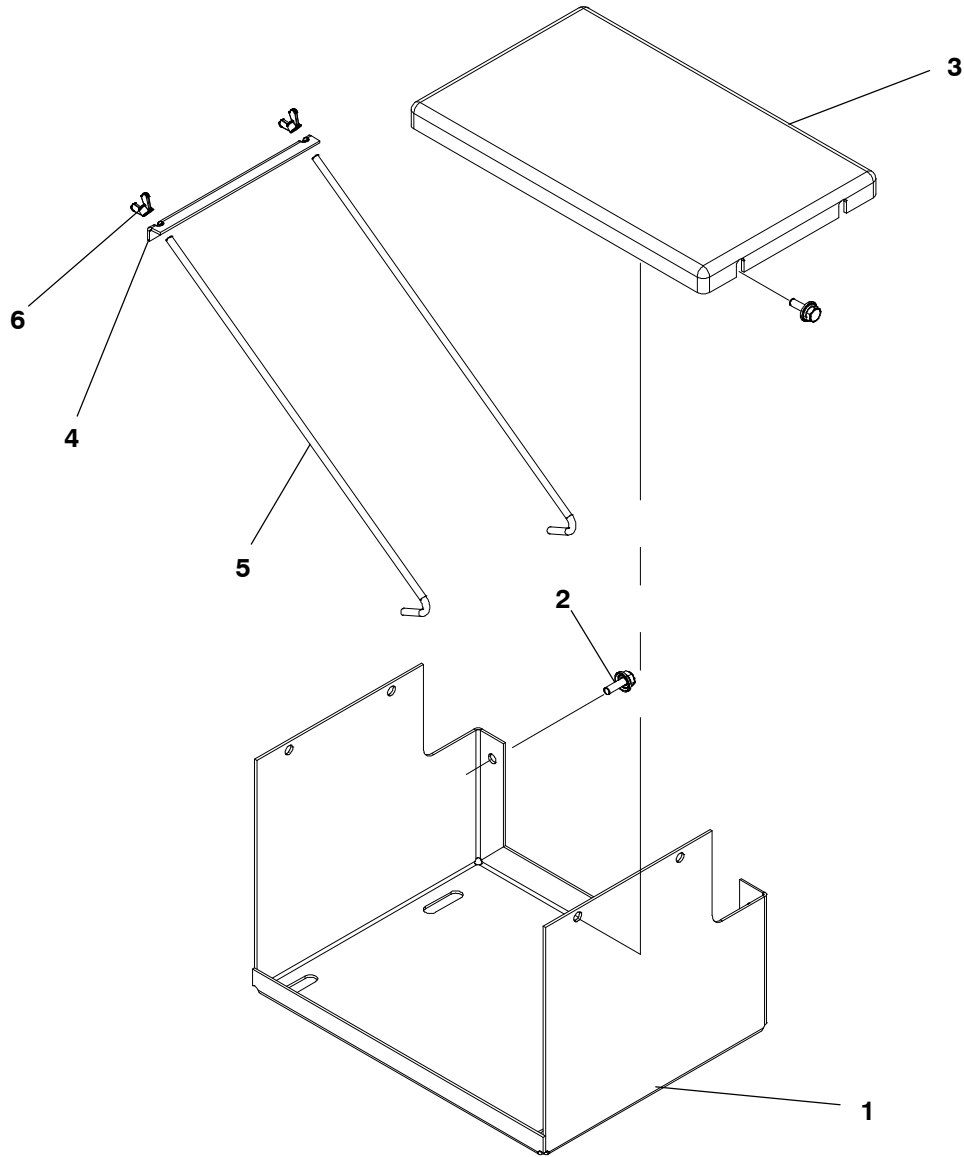
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-5908	2	Panel, Side – Radiator Housing	16	406-0972-01	7	Latch, Door
2	405-5909	1	Panel, Front – Radiator Housing		406-0782	7	Key, Replacement (fits Latch 406-0972-01)
3	405-5926	1	Roof	17			Door, Housing
4	405-5744	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	821-6007-02	36	Screw, Hex Head (M8 x 1.25 x 20)	26	130-4848-01	–	Insulation, Foam – Bulk (Order by the Foot – 3 Feet Required)
15	405-5832	6	Door, Housing				

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



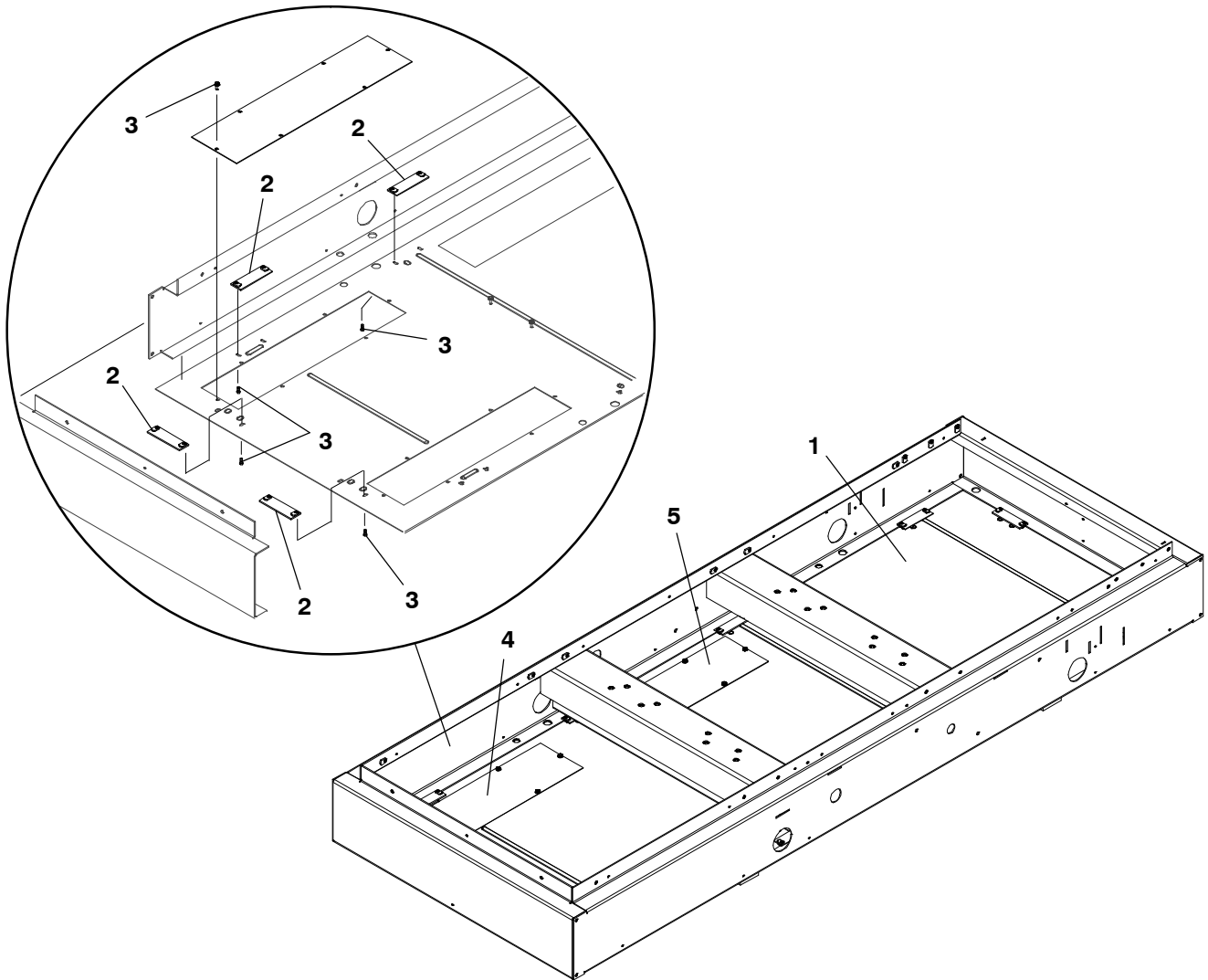
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4267	1	Tray, Battery	3	416-1033	1	Hold Down, Battery
2	821-6007-02	3	Screw, Hex Head (M8 x 1.25 x 20)	4	416-0993-02	2	Rod, Hold Down – Battery
				5	865-0030	2	Nut, Wing (M6)

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



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	416-1100-02	1	Tray, Battery	4	416-1103-02	1	Hold Down, Battery
2	821-6003-02	7	Screw, Hex Head (M8 x 1.25 x 20)	5	416-0993-02	2	Rod, Battery Hold Down
3	416-1101	1	Cover, Battery	6	865-0030	2	Nut, Wing

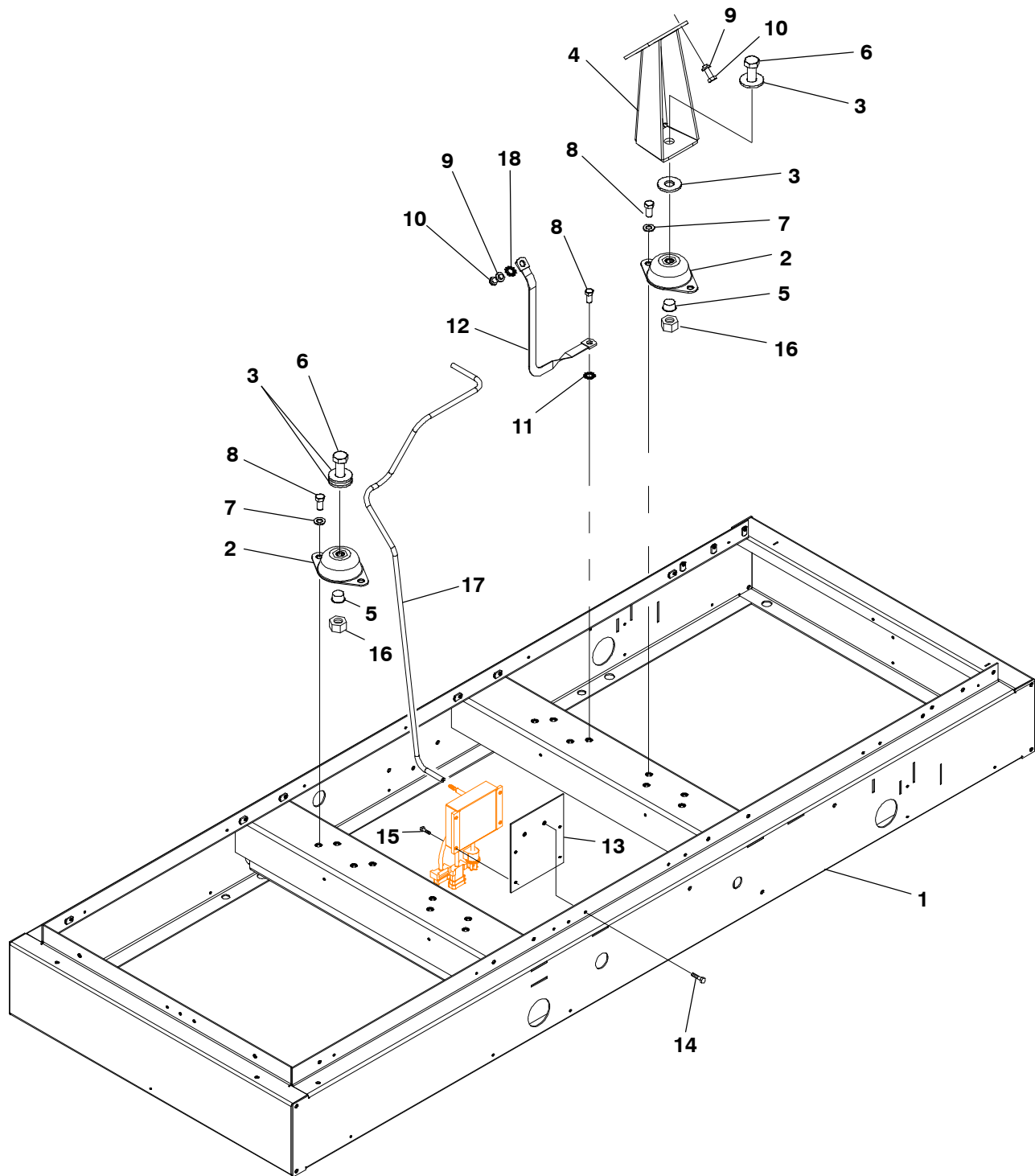
Skid Pan



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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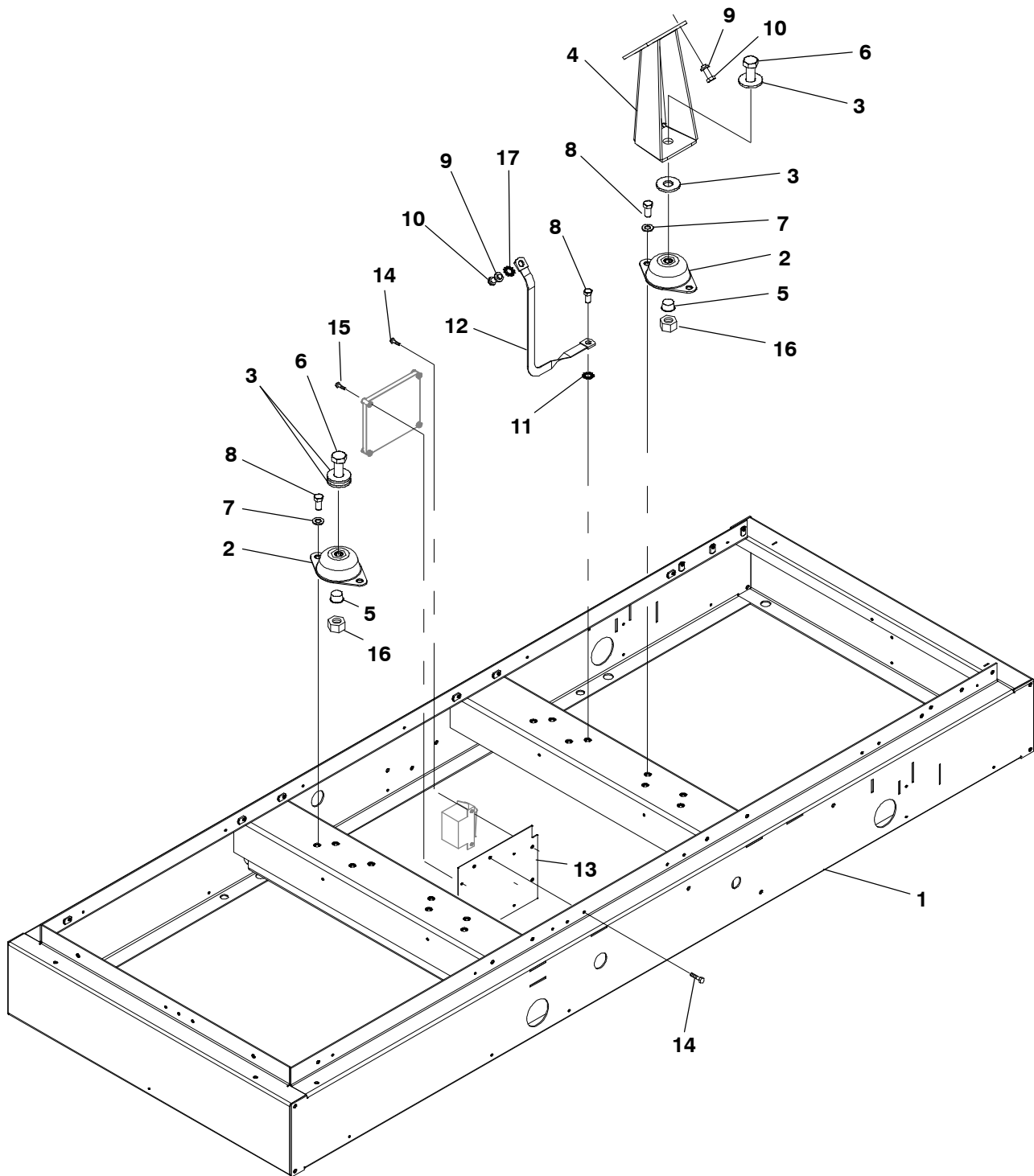
Skid Spec A-C



Skid Spec A-C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4485-02	1	Skid	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	403-4450-02	1	Bracket, Ignition Module
4	403-7073-02	2	Bracket, Mounting – Engine	14	821-6006-01	2	Screw, Hex Head (M6 x 1.0 x 16)
5	517-0094	4	Plug, Hole	15	815-0793-03	4	Screw, Hex – Flange Head – Thread Forming (M5 x 0.8 x 12)
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	503-2179	1	Hose, Vacuum
8	800-2543-02	9	Screw, Cap – Hex Head (M12 x 25)	18	856-0010	1	Washer, Lock – W/EIT (3/8)
9	526-0174	9	Washer, Flat				
10	800-2530-03	9	Screw, Cap – Hex Head (M10 x 1.5 x 25)				

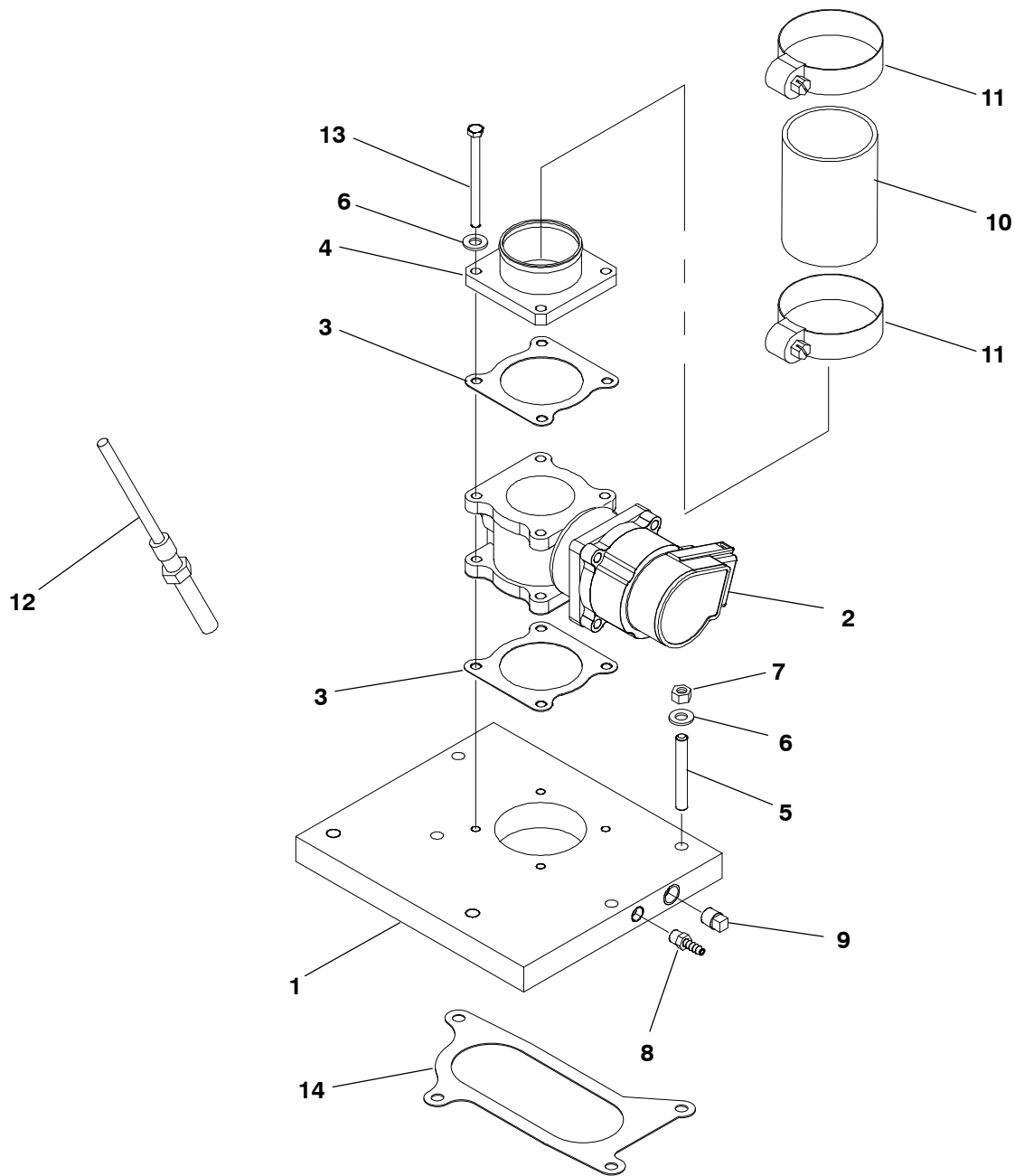
Skid Begin Spec D



Skid Begin Spec D

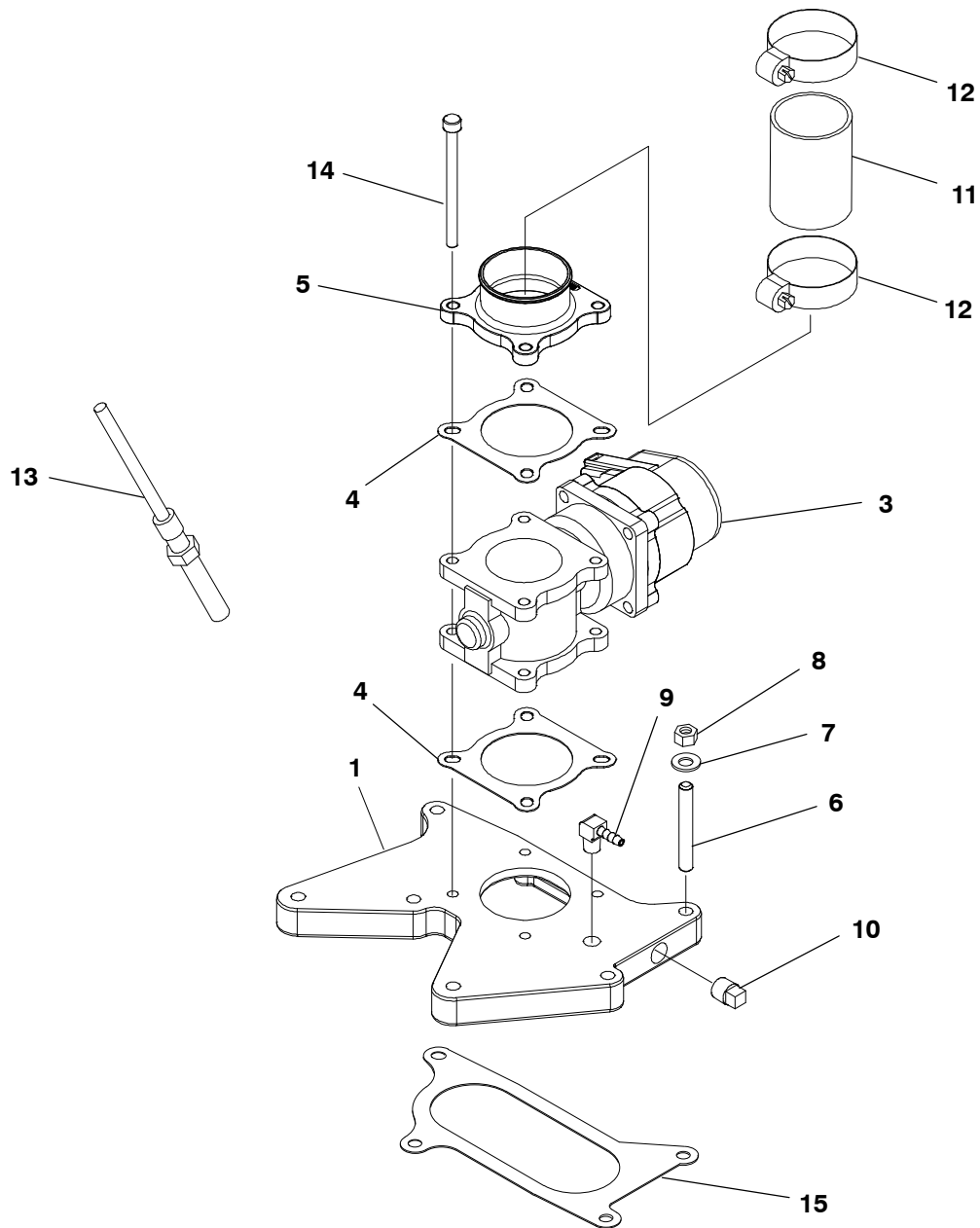
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4485-05	1	Skid	11	856-0013	1	Washer, Lock – W/EIT (1/2)
2	402-0779-05	4	Isolator, Vibration	12	337-0090	1	Strap, Electrical
3	526-0238-01	8	Washer, Flat (3/4)	13	403-5150-02	1	Bracket, Ignition Module
4	403-7073-02	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	9	Washer, Flat				
10	800-2530-03	9	Screw, Cap – Hex Head (M10 x 1.5 x 25)				

Governor Spec A-B



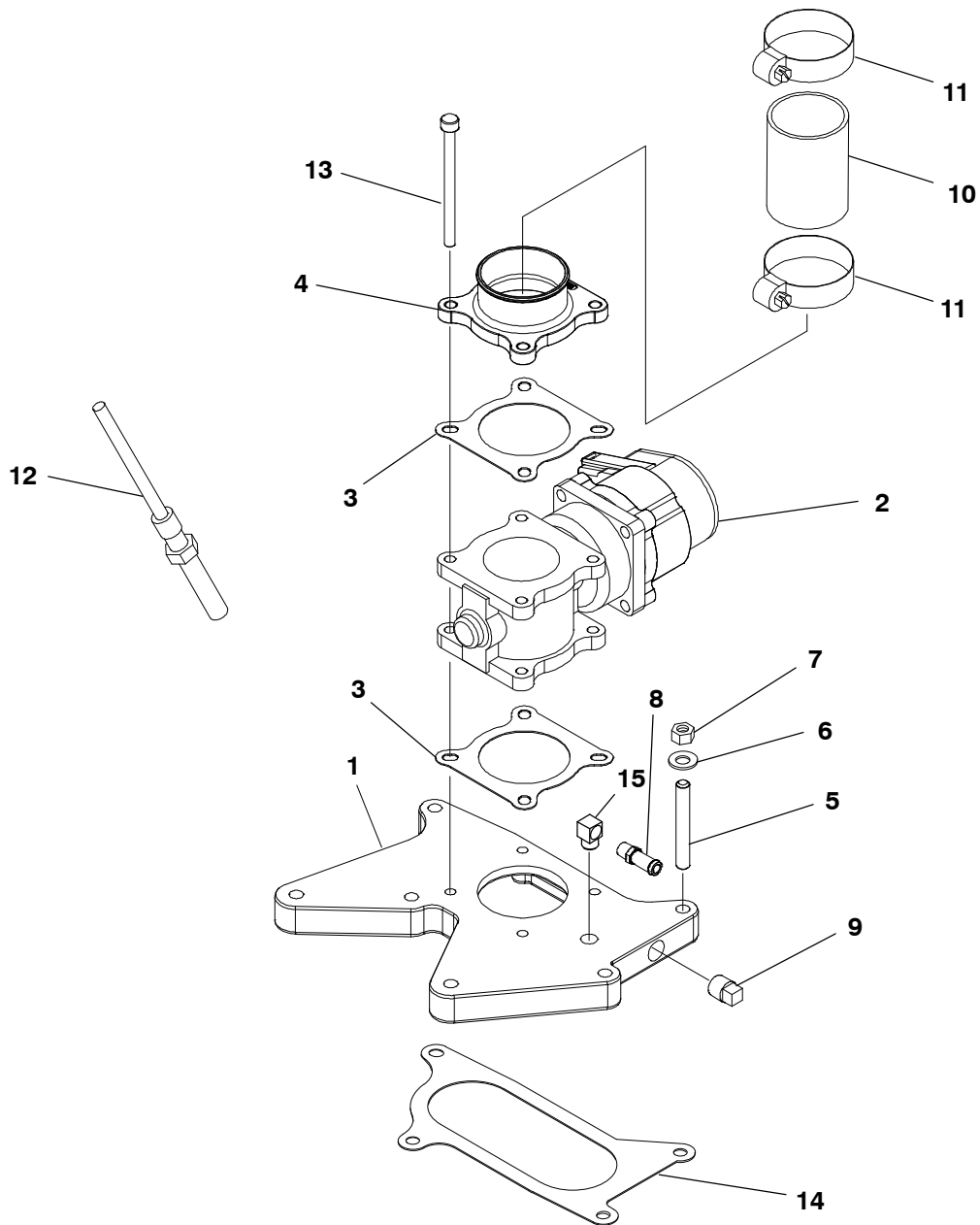
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	145-0811	1	Plate, Throttle Body	8	502-1299	1	Connector, Hose (1/8 x 3/16)
2			Governor	9	505-0054	1	Plug, Square Head
	150-2769-03	1	60 Hz - GGHG, GGHH	10	127-0443	1	Hose, Turbocharger
	150-2769-04	1	50 Hz - GGHH	11	503-1870-03	2	Clamp, Hose
3	145-0813	2	Gasket, Throttle Body	12	150-2651	1	Pick-Up, Magnetic
4	145-0812	1	Adapter, Throttle Body	13	800-6283	4	Screw, Cap - Hex Head (M6 x 1 x 80)
5	520-1024	4	Stud (M6)	14	145-0786	1	Gasket, Throttle Body
6	526-2080	8	Washer, Flat (M6)				
7	862-0026-54	4	Nut, Hex (M6)				

Governor Spec C



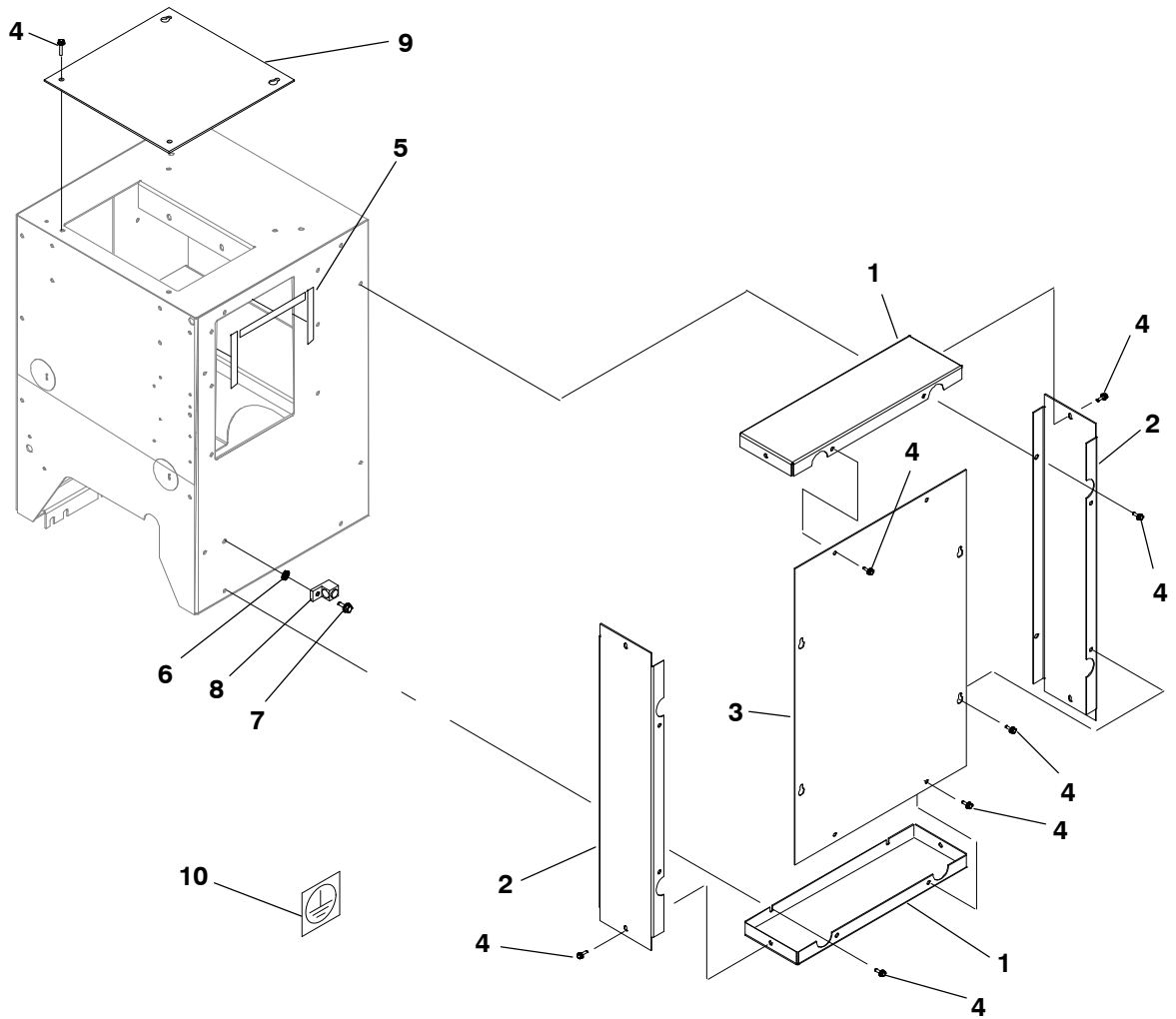
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	9	502-1423	1	Connector, Hose (1/8 x 3/16)
2	150-2769-09		Governor - Complete (Includes Items 3, 4 and 5)	10	505-0054	1	Plug, Square Head
3	150-2762-01		Governor	11	127-0443	1	Hose, Turbocharger
4	145-0813	2	Gasket, Throttle Body	12	503-1870-03	2	Clamp, Hose
5	145-0812	1	Adapter, Throttle Body	13	150-2651	1	Pick-Up, Magnetic
6	520-1024	4	Stud (M6)	14	802-2539	4	Screw, Cap - Hex Head (M6 x 1.0 x 80)
7	526-2080	4	Washer, Flat (M6)	15	145-0786	1	Gasket, Throttle Body
8	862-0026-54	4	Nut, Hex (M6)				

Governor Begin Spec D



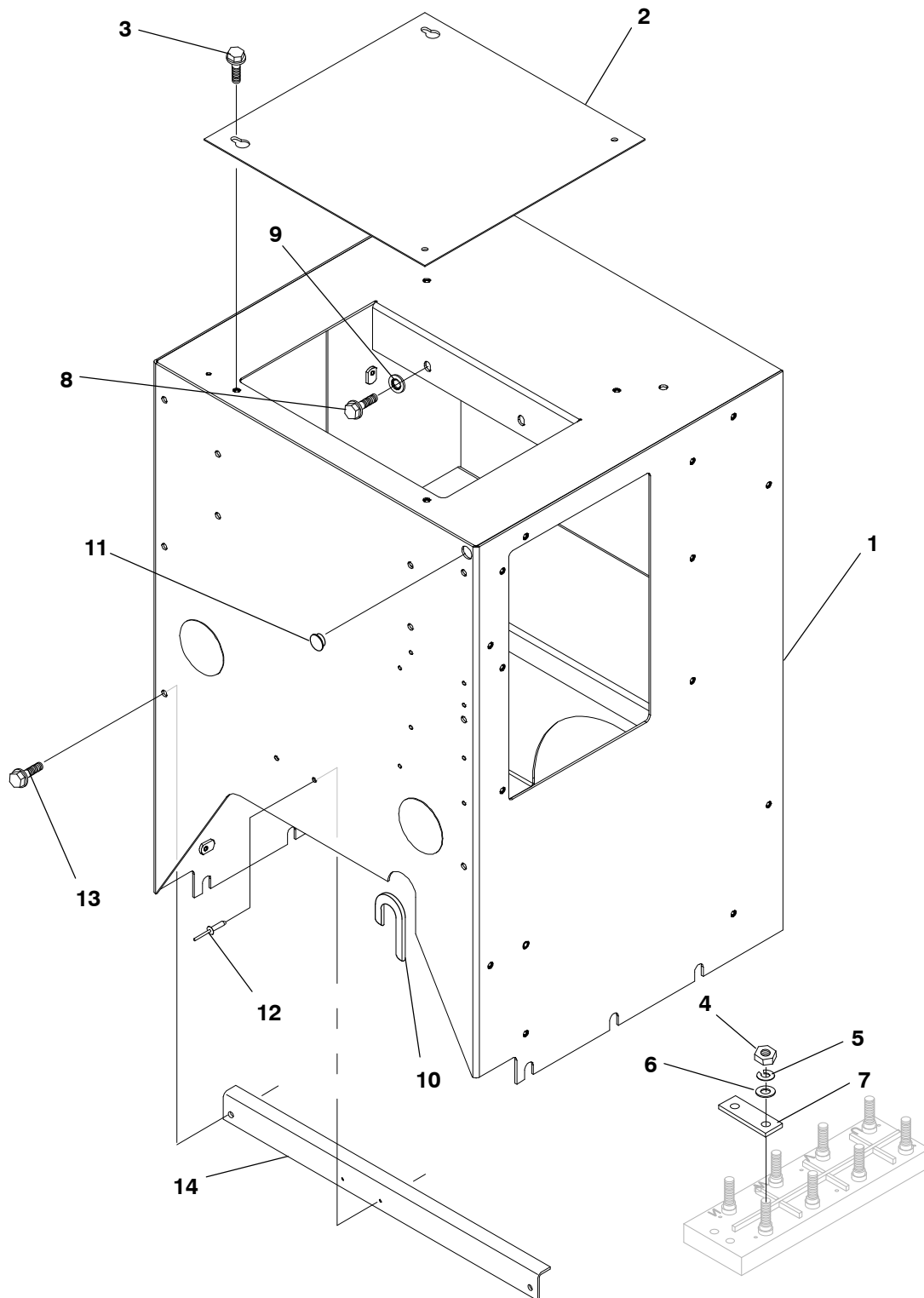
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	9	505-0054	1	Plug, Square Head
2	150-2762-01		Governor	10	127-0443	1	Hose, Turbocharger
3	145-0813	2	Gasket, Throttle Body	11	503-1870-03	2	Clamp, Hose
4	145-0812	1	Adapter, Throttle Body	12	150-2651	1	Pick-Up, Magnetic
5	520-1024	4	Stud (M6)	13	802-2539	4	Screw, Cap - Hex Head (M6 x 1.0 x 80)
6	526-2080	4	Washer, Flat (M6)	14	145-0786	1	Gasket, Throttle Body
7	862-0026-54	4	Nut, Hex (M6)	15	502-0020-01	1	Elbow, Pipe - Street (1/8)
8	502-0432	1	Connector, Hose				

Entrance Box



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3072	2	Panel, Box – Top and Bottom	6	856-0008	1	Washer, Lock – EIT (5/16")
2	319-2978	2	Panel, Box – Side	7	821-6003-02	1	Screw, Self-Locking – Hex Washer Head (M8 x 1.25 x 20mm)
3	319-2979-02	1	Cover, Entrance Box	8	332-1473	1	Lug, Solderless
4	821-6002-03	24	Screw, Self-Locking – Hex Washer Head (M6 x 1 x 16mm)	9	319-2996	1	Cover, Control Housing
5	508-0239	-	Edging – Bulk (Order By The Foot – 2 Feet Required)	10	098-6537	1	Label, Ground

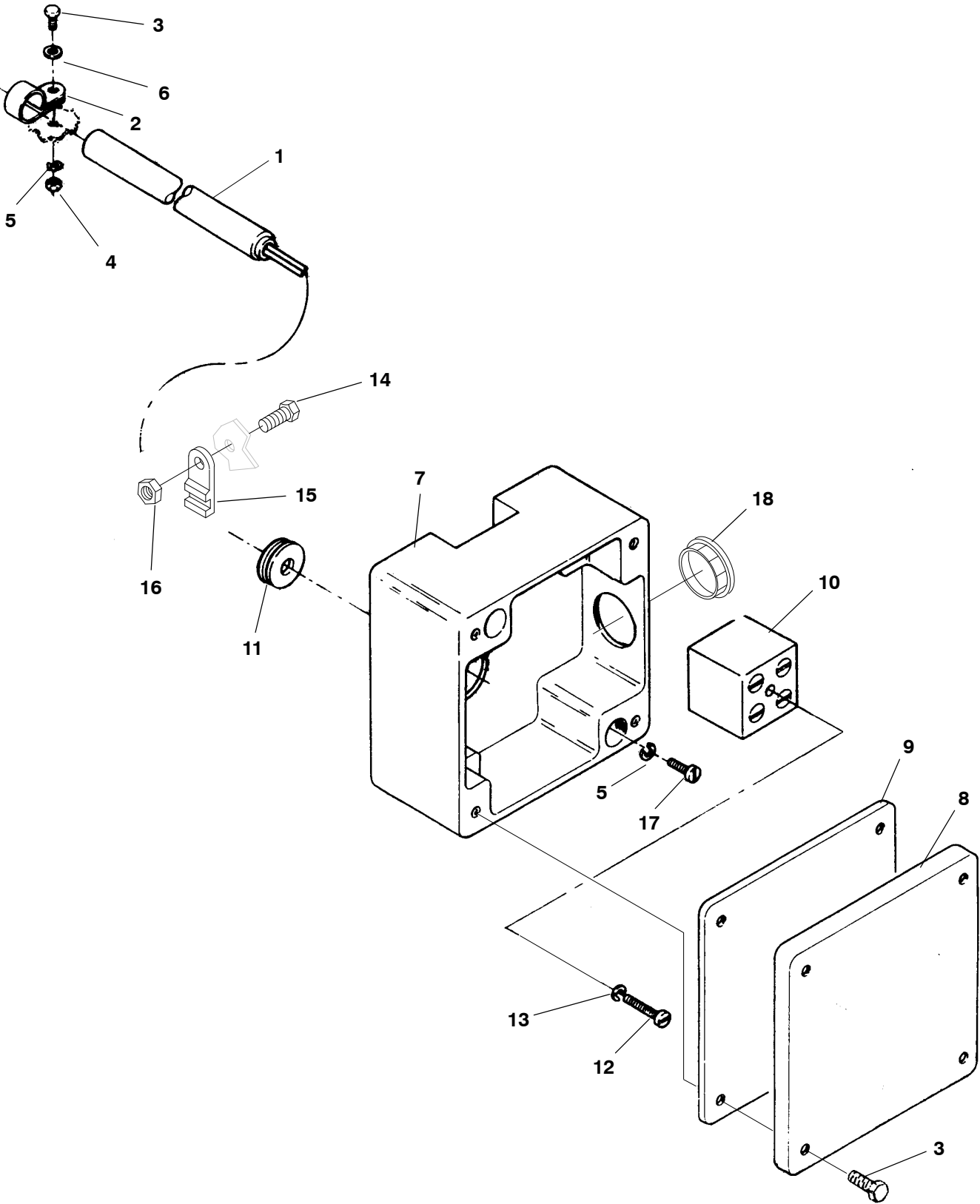
Control Housing



Control Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2967	1	Housing, Control	9	856-0008	1	Washer, Lock – ET (5/16)
2	319-2996	1	Cover, Housing – Control	10	508-0305-02	–	Edging – Bulk (Order by the Foot – 1 Foot Required)
3	821-6002-03	4	Screw, Hex Head (M6 x 16)	11	517-0135	1	Plug, Hole
4	860-2009	8	Nut, Hex (M10 x 1.5)	12	818-0231-02	2	Rivet, Pop
5	850-2010	8	Washer, Lock (M10)	13	818-5003-01	2	Screw, Self-Locking – Hex Washer Head (5/16 x 0.50")
6	526-2120	8	Washer, Flat (M10)	14	319-4435-02	1	Brace, Control Housing
7	332-2987	4	Link, Terminal				
8	821-0014	4	Screw, Locking – Hex Head (5/16-18 x .50)				

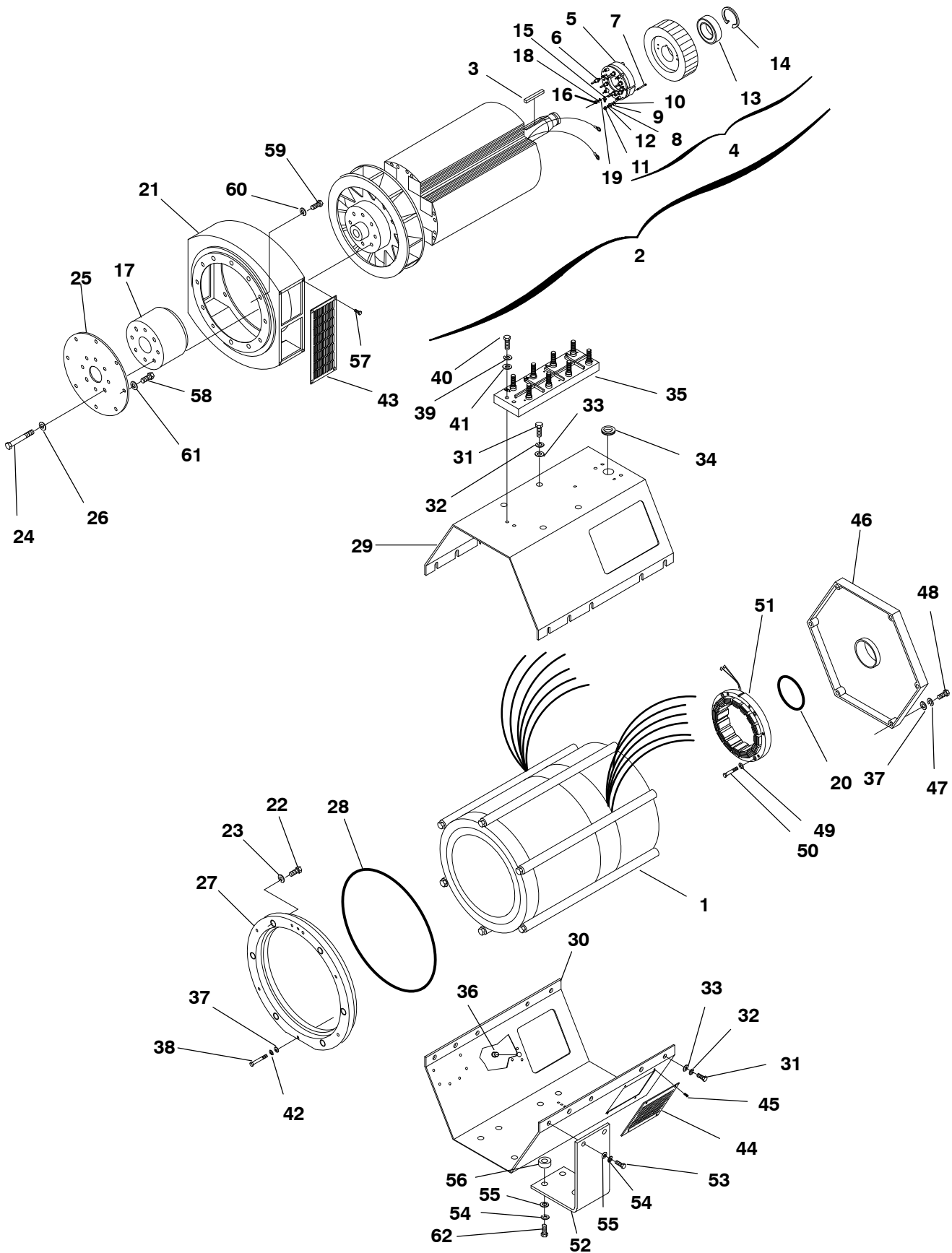
Generator Heater



Generator Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cartridge, Heater (100 Watt)	10	332-3023	1	Block, Terminal
	333-0438-07	1	120 Volt	11	508-0228	1	Grommet
	333-0438-08	1	240 Volt	12	822-3047	1	Screw, Machine – Pan Head (M3 x 20mm)
2	332-3024-11	2	Clamp, Loop	13	850-2003	1	Washer, Lock – Spring (M3)
3	822-3075	6	Screw, Machine – Pan Head (M4 x 16mm)	14	800-3034	1	Screw, Cap – Hex Head (M4 x 12mm)
4	860-2005	2	Nut, Hex (M4)	15	332-3228	1	Mount, Cable Tie
5	850-2004	4	Washer, Lock – Spring (M4)	16	870-2064-01	1	Nut, Hex (M4)
6	526-2050	2	Washer, Flat (M4)	17	815-0792-04	2	Screw, Pan Head (M4 x 12mm)
7	330-0142	1	Box, Terminal	18	517-0021	1	Plug, Dot Button
8	330-0141-03	1	Cover, Terminal Box				
9	330-0141-04	1	Gasket, Terminal Box				

Generator



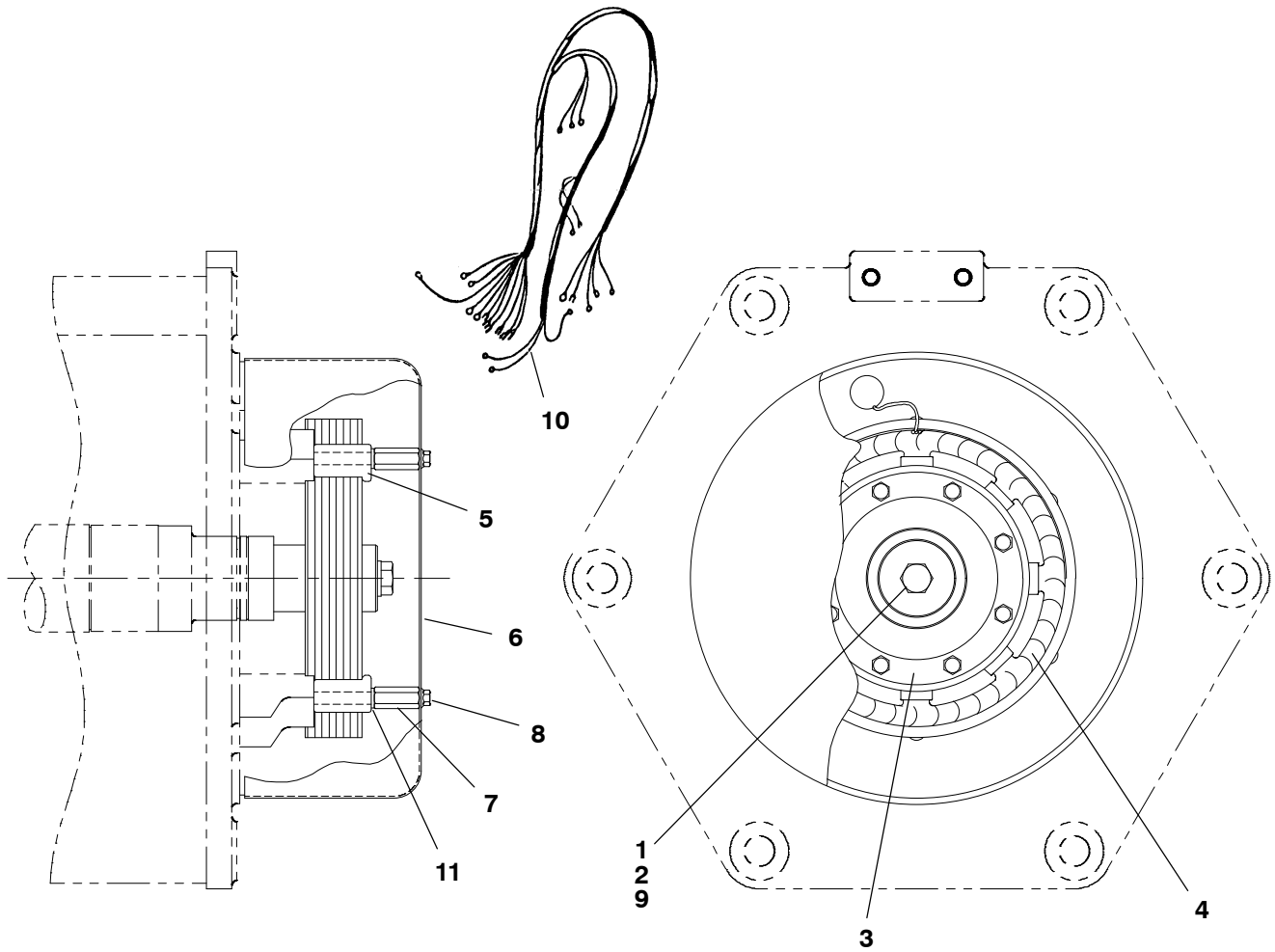
Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	-	1	Stator, Generator (See Separate Pages for Part Numbers)	30			Cover, Stator – Bottom
2			Rotor Assembly, Generator (Includes Parts Marked *)	232-3820-01	1		165, 190mm Stack Length
	201-3497-01	1	165mm Stack Length	232-3820-02	1		130, 285mm Stack Length
	201-3497-02	1	190mm Stack Length	232-3820-03	1		335mm Stack Length
	201-3497-03	1	230mm Stack Length	31	800-3017-54	10	Screw, Cap – Hex Head (M12 x 30mm)
	201-3497-04	1	285mm Stack Length	32	850-0114-56	10	Washer, Lock – Spring (M12)
	201-3497-05	1	335mm Stack Length	33	526-0399-64	10	Washer, Flat (M12)
3			*Key, Exciter Rotor	34	508-1057	1	Grommet
	515-0297-01	1	160, 190mm Stack Length	35	232-3421	1	Block, Terminal
	515-0297-02	1	230, 285mm Stack Length	36	517-0135	1	Plug, Hole
	515-0297-03	1	335mm Stack Length	37	526-0423	12	Washer, Flat (13/32" ID x 1-1/4" OD x 1/4" Thk)
4			*Rotor Assembly, Exciter (Includes Parts Marked #)	38	800-3017-38	6	Screw, Cap – Hex Head (M10 x 30mm)
	201-3434-02	1	165, 190mm Stack Length	39	850-2008	3	Washer, Lock – Spring (M8)
	201-3434-03	1	230, 285, 335mm Stack Length	40	800-2060	3	Screw, Cap – Hex Head (M8 x 35mm)
5			*#Rectifier Assembly (Includes Parts Marked +)	41	526-2100	3	Washer, Flat (M8)
	357-0091	1	Forward (With Positive Diode)	42	850-0114-55	6	Washer, Lock – Spring (M10)
	357-0092	1	Reverse (With Negative Diode)	43	234-0867	2	Guard, Fan – Generator
6			*#+Diode	44	234-0879	2	Screen, Air Inlet
	358-0135-01	3	Positive	45	821-6001-02	8	Screw, Self-Locking – Hex Washer Head (M5 x 12mm)
	358-0135-02	3	Negative	46	211-0423	1	Bell, End
7	800-3009	6	*#+Screw, Cap – Hex Head (M4 x 35mm) (CR1,2,3,4,5,6)	47	850-0114-55	6	Washer, Lock – Spring (M10)
8	860-2005	6	*#+Nut, Hex (M4)	48	800-3017-38	6	Screw, Cap – Hex Head (M10 x 30mm)
9	850-2004	6	*#+Washer, Lock – Spring (M4)	49	850-2006	4	Washer, Lock – Spring (M6)
10	526-2050	6	*#+Washer, Flat (M4)	50	800-2042	4	Screw, Cap – Hex Head (M6)
11	870-2064-01	6	*#Nut, Locking – Nylon (M4)		800-2046	4	165, 190mm Stack Length
12	526-2050	6	*#Washer, Flat (M4)				230, 285, 335mm Stack Length
13	510-0164	1	*Bearing, Ball	51	220-4293-05	1	Stator, Exciter
14	518-0083	1	*Ring, Retaining		220-4293-06	1	165, 190mm Stack Length
15	304-0807	1	*Varistor				230, 285, 335mm Stack Length
16	860-2006	2	*Nut, Hex (M5)	52	232-3925	2	Bracket, Mounting – Generator Foot
17	232-3695	1	*Hub, Drive	53	800-2543-05	4	Screw, Cap – Hex Head (M12 x 40mm)
18	850-2005	2	*Washer, Lock – Spring (M5)	54	850-0117	8	Washer, Lock – Spring (M12)
19	526-2060	2	*Washer, Flat (M5)	55	526-0433	8	Washer, Flat (M12)
20	509-0266-02	1	O-Ring	56	232-3730-04	4	Spacer, Mounting Foot
21	231-0317	1	Adapter, Generator	57	821-6001-01	8	Screw, Self-Locking – Hex Washer Head (M5 x 10mm)
22			Screw, Cap – Hex Head	58	805-0015	8	Bolt, Place (3/8-16 x .75")
	800-3017-42	5	M10 x 50mm	59	800-2088	12	Screw, Cap – Hex Head (M10 x 35mm)
	800-3017-44	1	M10 x 60mm (12 O'Clock Position)	60	850-2010	12	Washer, Lock – Spring (M10)
23	850-0114-55	6	Washer, Lock – Spring (M10)	61	526-0174	8	Washer, Flat (3/8")
24	720-1119	8	Screw, Cap – Hex Head (M16 x 40mm)	62	800-2543-05	4	Screw, Cap – Hex Head (M12 x 40mm)
25	232-3699	3	Disc, Drive – Generator				
26	526-0259	8	Washer, Flat (5/8") Hardened				
27	231-0319	1	Adapter, Generator Stator				
28	508-0139	-	Seal, Edging – Bulk (Order by the Foot – 3 Feet Required)				
29			Cover, Stator – Top				
	234-0937-01	1	165, 190mm Stack Length				
	234-0937-02	1	130, 285mm Stack Length				
	234-0937-03	1	335mm Stack Length				

* – Parts Included in Generator Rotor Assemblies
– Parts Included in Exciter Rotor Assemblies
+ – Parts Included in Rectifier Assemblies

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

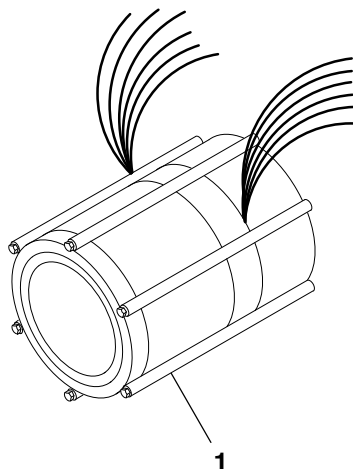
Permanent Magnet Generator (PMG)



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

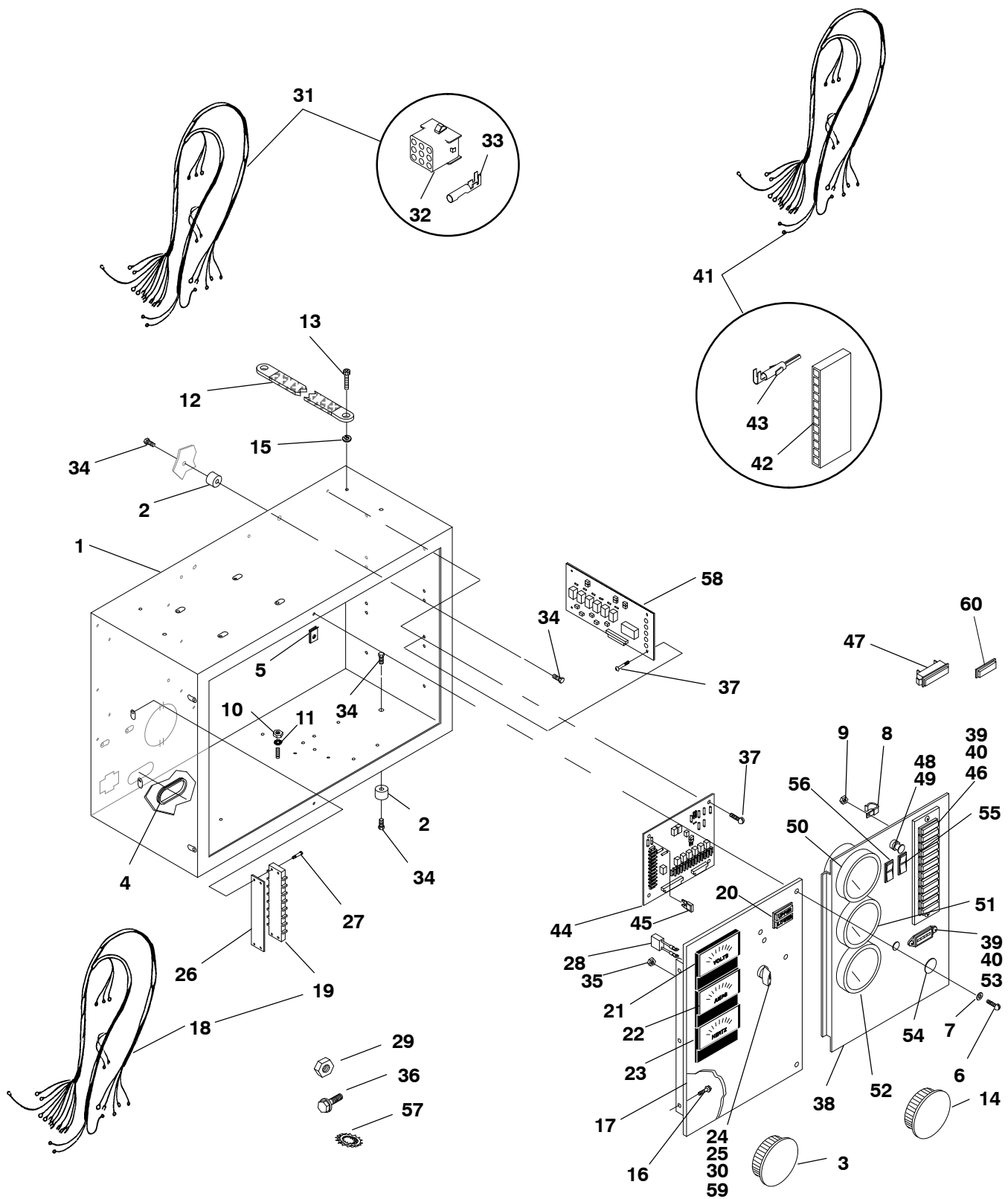
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	232-3462-03	4	Spacer, Cover
8	821-6001-01	4	Screw, Hex Head (M5 x 0.8 x 10)
9	850-2010	1	Washer, Lock (M10)
10	338-3011	1	Harness, Wiring - PMG
11	850-2006	4	Washer, Lock (M6)

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

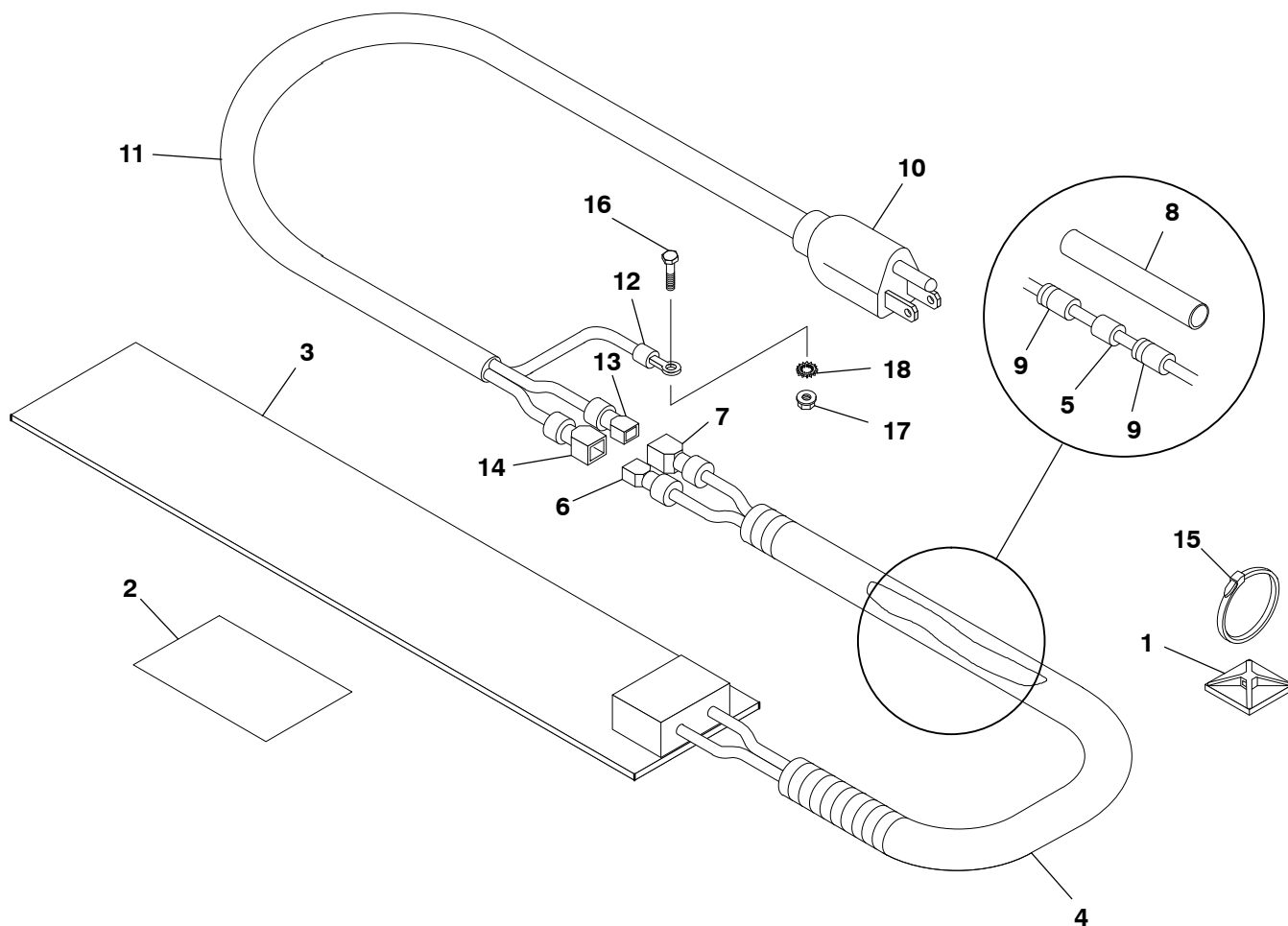
Detector Control



Detector Control

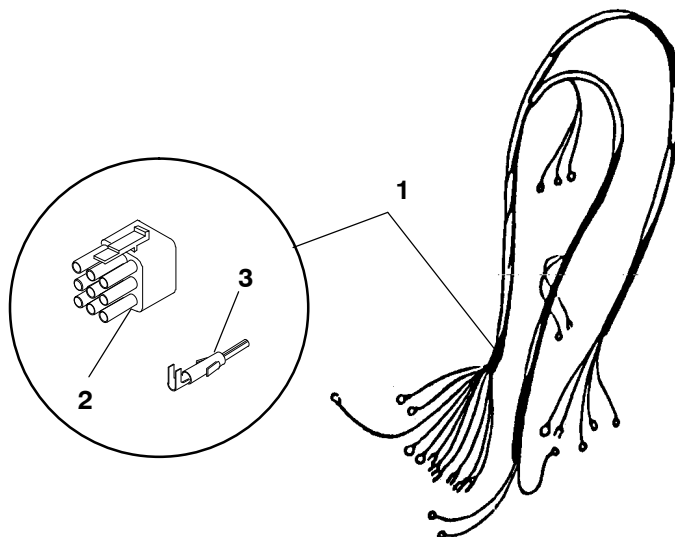
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3030	1	Box, Control	32	323-1644-02	1	Plug, Connector (P2)
2	402-0527	4	Isolator, Vibration	33	323-1648	9	Socket, Contact
3	517-0301	1	Plug, Hole (Fits 2" Hole) (Quantity Used As Required)	34	800-0045	4	Screw, Cap - Hex Head (5/16-18 x 3/8")
4	508-0051	1	Grommet (Fits 2" Hole)	35	870-1220	6	Nut, Hex (#4-40)
5	406-0332	2	Receptacle, Fastener	36	821-5000-05	4	Screw, Self-Locking - Hex Washer Head (#10-32 x 1/2")
6	406-0333	2	Stud, Fastener	37	815-0937	8	Screw, Pan Head (Cross Recessed (#6-32 x 1/2"))
7	406-0334	2	Washer, Stud Retainer	38	301-9055-01	1	Door, Control - DC
8	332-0052	2	Clip, Wire	39	815-0385	4	Screw, Machine - Round Head (#6-32 x 1/2")
9	870-0131	1	Nut, Hex - W/ET (#10-32)	40	870-0183	4	Nut, Hex - W/ET (#6-32)
10	871-0015	1	Nut, Hex (1/4-20)	41	338-3252	1	Harness, Wiring - DC Control Door (Includes Connector Housing and Contact Pins) (22 Wire, 32") (A11J4 to GND, M11,12,13,14, S11,12, DS11)
11	526-0018	1	Washer, Flat (1/4")	42	323-1308	1	Housing, Connector (J4)
12	337-0049	1	Strap, Ground	43	323-1302	11	Pin, Contact
13	821-0014	5	Screw, Self-Locking - Hex Head (5/16-18 x 1/2")	44	300-4296	1	Board Assembly, Printed Circuit - Engine Monitor (Includes Fuses) (A11)
14	517-0302	1	Plug, Hole (Fits 2-1/4" Hole) (Quantity Used As Required)	45			Fuse
15	856-0008	2	Washer, Lock - EIT (5/16")		321-0307-03	2	5 Amp (Tan) (F4, F5)
16	821-0004	3	Screw, Self-Locking - Hex Washer Head (#10-32 x 5/16")		321-0307-06	1	15 Amp (Light Blue) (F3)
17	301-9054-01	1	Door, Control - AC		321-0307-07	2	20 Amp (Yellow) (F1, F2)
18	338-2278	1	Harness, Wiring - AC Control Door (Includes Terminal Block) (19 Wire, 26") (TB21, GND to GND, M21,22,23, S21, DS21,22)	46	322-0360-01	1	Light Assembly, Indicator (Includes Wiring Harness and Connector Housing) (A12)
19	332-0607	1	Block, Terminal (12 Place) (TB21)	47	322-0369-01	1	Light, Indicator - Replacement
20	322-0363	1	Light, Indicator - Upper/Lower Scale (DS21,22)	48	322-0361	1	Light, Panel (DS11)
21			Voltmeter, AC (M21)	49	322-0004	1	Bulb, Panel Light - Replacement
	302-1148	1	0-300/600	50	193-0466	1	Gauge, Oil Pressure (M11)
	302-1753	1	0-0750	51	193-0351	1	Gauge, Water Temperature (M12)
22			Ammeter (M22)	52	302-1641	1	Voltmeter (M13)
	302-1684	1	0-150/300	53	302-2002	1	Meter, Hour (M14)
	302-1685	1	0-200/400	54	517-0131	1	Plug, Hole (Fits 7/8" Hole)
	302-1724	1	0-250/500	55	308-1010	1	Switch, Rocker - Lamp Test/Reset Panel Lamp (S11)
23	302-1968	1	Meter, Frequency (M23)	56	308-1011	1	Switch, Rocker - Run/Stop/Remote (S12)
24	853-0008	1	Washer, Lock - ET (#10)	57	853-0008	1	Washer, Lock - ET (#10)
25	308-1052	1	Switch, Rotary - Voltmeter/Ammeter (Includes Handle) (S21)	58	300-5098	1	Board, Printed Circuit - Sensor Board (A27)
26	332-2723	1	Strip, Marker	59	308-1082	1	Handle, Rotary Switch
27	815-0901-06	2	Screw, Cross Recessed - Thread Forming (#6-32 x 5/8")	60	322-0431-10	1	Lens, Replacement - Check Engine (DS19 or DS20)
28	355-0189	1	Capaciter - Voltmeter (.1 Mfd., 500 WVDC) (C21)				
29	870-0183	4	Nut, Hex - W/ET (#6-32)				
30	815-0875-02	3	Screw, Machine - Round Head (M4 x 8mm)				
31	338-3429	1	Harness, Wiring - Terminal Block (9 Wire, 11") (Includes Connector Plug and Sockets) (P2 to TB21)				

Control Heater



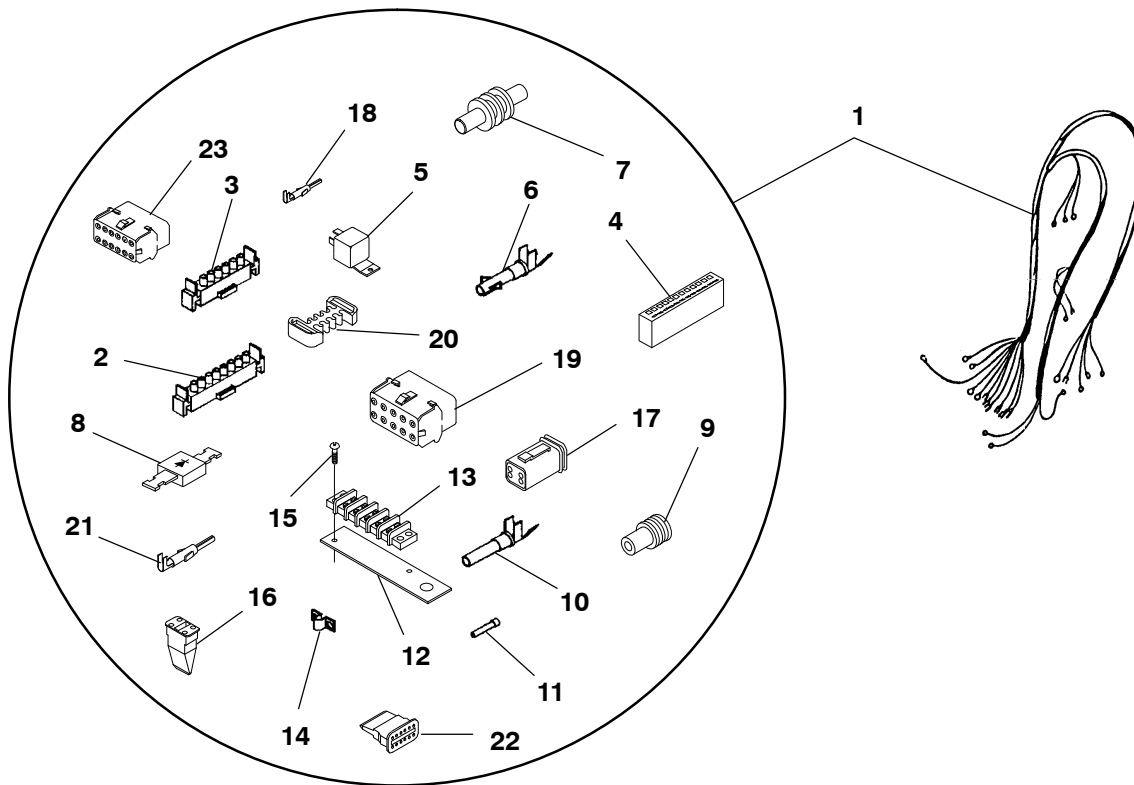
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2420	2	Mount, Tie – Cable	11	335-0110	1	* Cable
2	098-6195	1	Label, Caution	12	332-2697	1	* Terminal, Ring
3			Heater, Control	13	332-1992	1	* Terminal, Receptical
	300-4515-01	1	120 Volt	14	332-2430	1	* Terminal, Tab
	300-4515-02	1	240 Volt	15	332-0942	3	Tie, Cable
4	898-1195-01	A/R	Sleeving, Convoluted	16	800-0024	1	Screw, Cap – Hex Head (5/16-18 x 3/4)
5	357-0114	1	Rectifier, Power				
6	332-1992	1	Terminal, Receptical	17	870-0257	1	Nut, Hex – Self Locking (5/16-18)
7	332-2430	1	Terminal, Tab				
8	898-0860	A/R	Tubing, Heat Shrink	18	856-0008	2	Washer, Lock EIT (5/16)
9	332-1789	2	Splice, Window (18 Gauge)				
10	335-0173	1	Cable, Heater – Control (Includes Parts Marked *)				* – Parts Included in 335-0173 Heater Cable

AC Auxiliary Wiring Harness



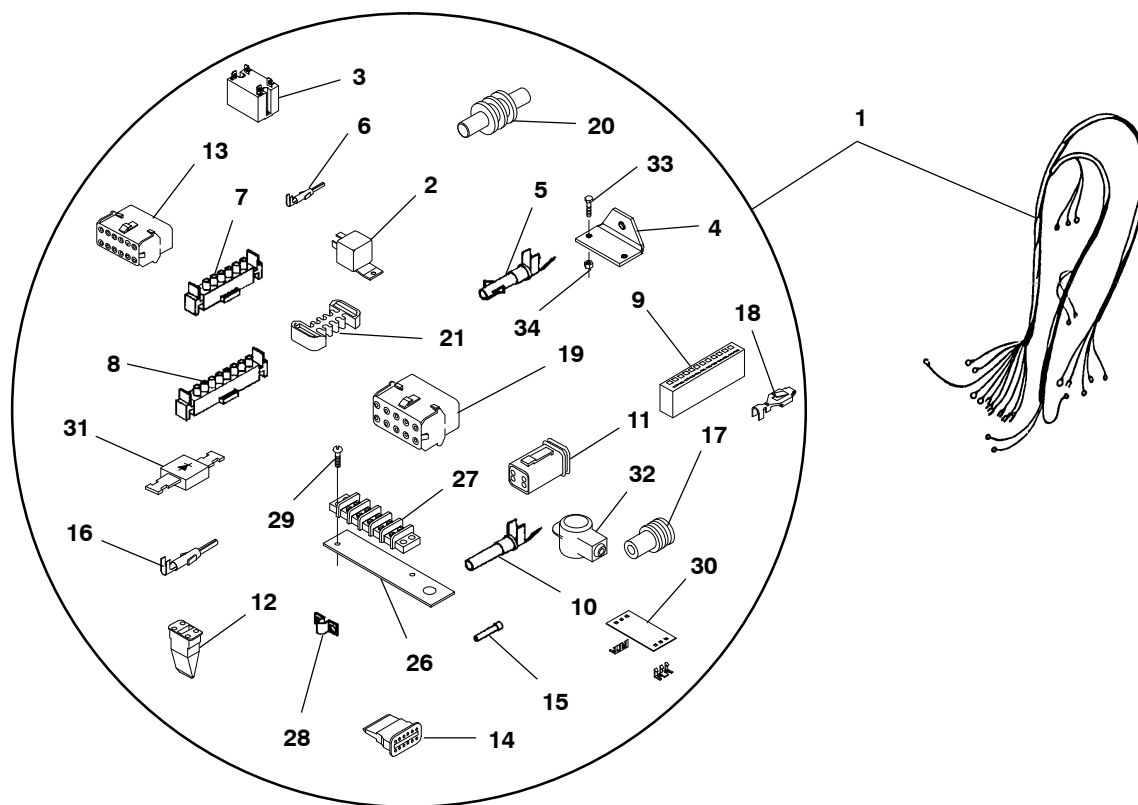
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – AC Auxiliary (Includes the Following Parts)	2			Connector, Plug (9 Place) 600 Volts
	338-3405	1	600 Volts		323-1644-01	2	600 Volts
	338-3403	1	Less than 600 Volts		323-1644-01	1	Less than 600 Volts
				3	323-1647	A/R	Pin, Contact

Engine Wiring Harness Spec A-B



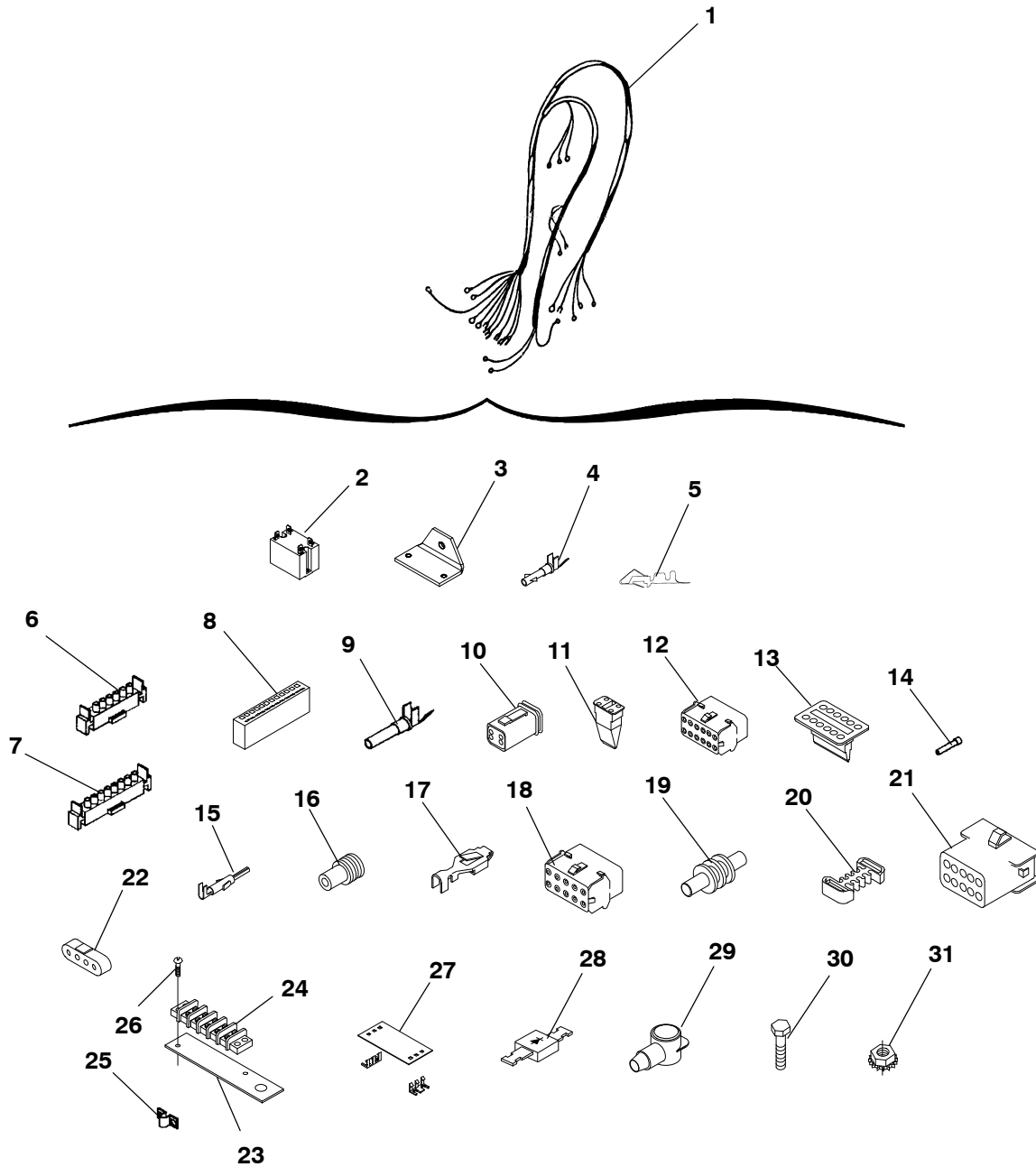
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3922	1	Harness, Wiring – Engine to Control (Includes the Following Parts)	11	323-1591	1	Plug, Seal
2	323-1306	1	Housing, Connector – 8 Place (J1)	12	319-2006-01	1	Bracket, Terminal Mounting
3	323-1304	1	Housing, Connector – 6 Place (J2)	13	332-0604	1	Block, Terminal (T26)
4	323-1374-12	1	Housing, Connector – 12 Place (J3)	14	332-1043	4	Jumper (T26)
5	307-2817-01	2	Relay (K4, K5)	15	815-0538	2	Screw, Machine – Round Head – Cross Recessed W/IT (#8-32 x .50)
6	323-1200	12	Socket, Contact (Used in J1, J2)	16	323-1548	1	Wedge, Plug (4 Pin)
7	323-1712	A/R	Plug, Cavity (P8)	17	323-1546	1	Plug (4 Pin)
8	357-0030	1	Rectifier, Silicon (CR1)	18	323-1302	11	Pin, Contact (Used in J3)
9	323-1708	9	Seal, Cable (P8)	19	323-1710	1	Connector (10 Pin) (P8)
10	323-1492	9	Socket, Contact	20	323-1719	1	Housing, Lock (P8)
				21	323-1707	10	Pin, Terminal (P8)
				22	323-1583	1	Wedge, Plug (12 Pin)
				23	323-1582	1	Plug (12 Pin)

Engine Wiring Harness Spec C



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4109	1	Harness, Wiring – Engine to Control (Includes the Following Parts)	19	323-1710	1	Connector (10 Pin) (P8)
2	307-2817-01	1	Relay (K5)	20	323-1712	1	Plug, Cavity (P8)
3	307-2968-03	1	Relay, Power (K4)	21	323-1719	1	Housing, Lock (P8)
4	307-2982-02	1	Bracket, Relay (K4)	22	323-1815	1	Housing, Connector (E9) (Not Illustrated)
5	323-1200	12	Socket, Contact (Used in J1, J2)	23	323-1816	1	Housing, Lock (E9) (Not Illustrated)
6	323-1302	11	Pin, Contact (Used in J3)	24	323-1975	1	Housing, Connector (E30) (Not Illustrated)
7	323-1304	1	Housing, Connector – 6 Place (J2)	25	323-1976	1	Lock, Connector (E30) (Not Illustrated)
8	323-1306	1	Housing, Connector – 8 Place (J1)	26	319-2006-01	1	Bracket, Terminal Mounting (26)
9	323-1374-12	1	Housing, Connector – 12 Place (J3)	27	332-0604	1	Block, Terminal (T26)
10	323-1492	21	Socket, Contact	28	332-1043	4	Jumper, Terminal Board
11	323-1546	1	Plug (4 Pin)	29	815-0538	2	Screw, Pan Head – Cross Recessed W/ET # (8-32 x .50)
12	323-1548	1	Wedge, Plug (4 Pin)	30	332-3792-01	1	Cover, Terminal Block (Includes 2 Nylon Spring Clips)
13	323-1582	2	Plug (12 Pin)	31	357-0030	1	Rectifier, Silicon (CR1)
14	323-1583	2	Wedge, Plug (12 Pin)	32	416-1021-02	1	Boot
15	323-1591	7	Plug, Seal	33	812-0079	2	Screw (#8-32 x .5)
16	323-1707	9	Pin, Terminal (P8)	34	870-0221	2	Nut, Hex – W/ET (#8-32)
17	323-1708	16	Seal, Cable (P8, E9, E30)				
18	323-1709	7	Socket, Contact				

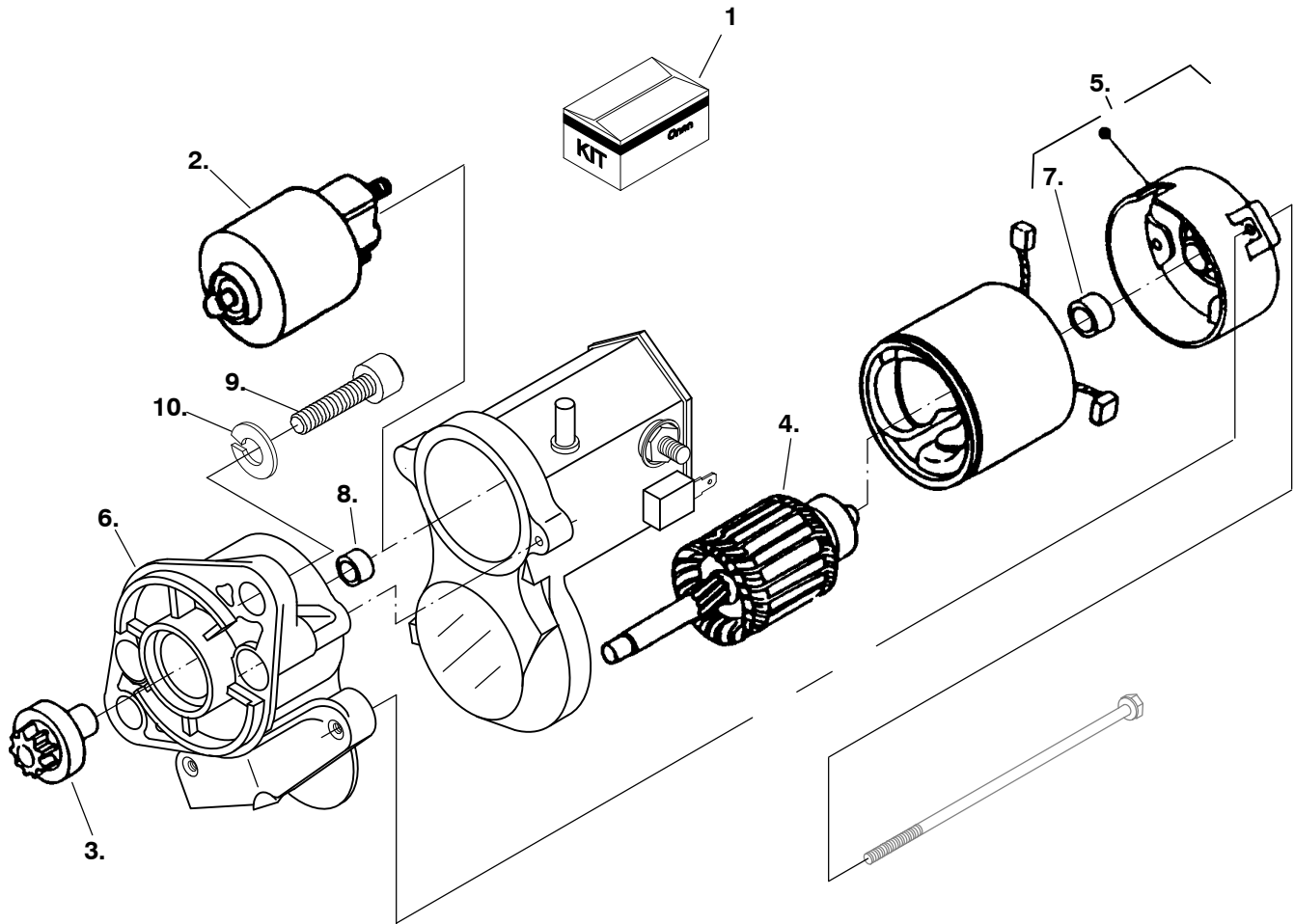
Engine Wiring Harness Begin Spec D



Engine Wiring Harness Begin Spec D

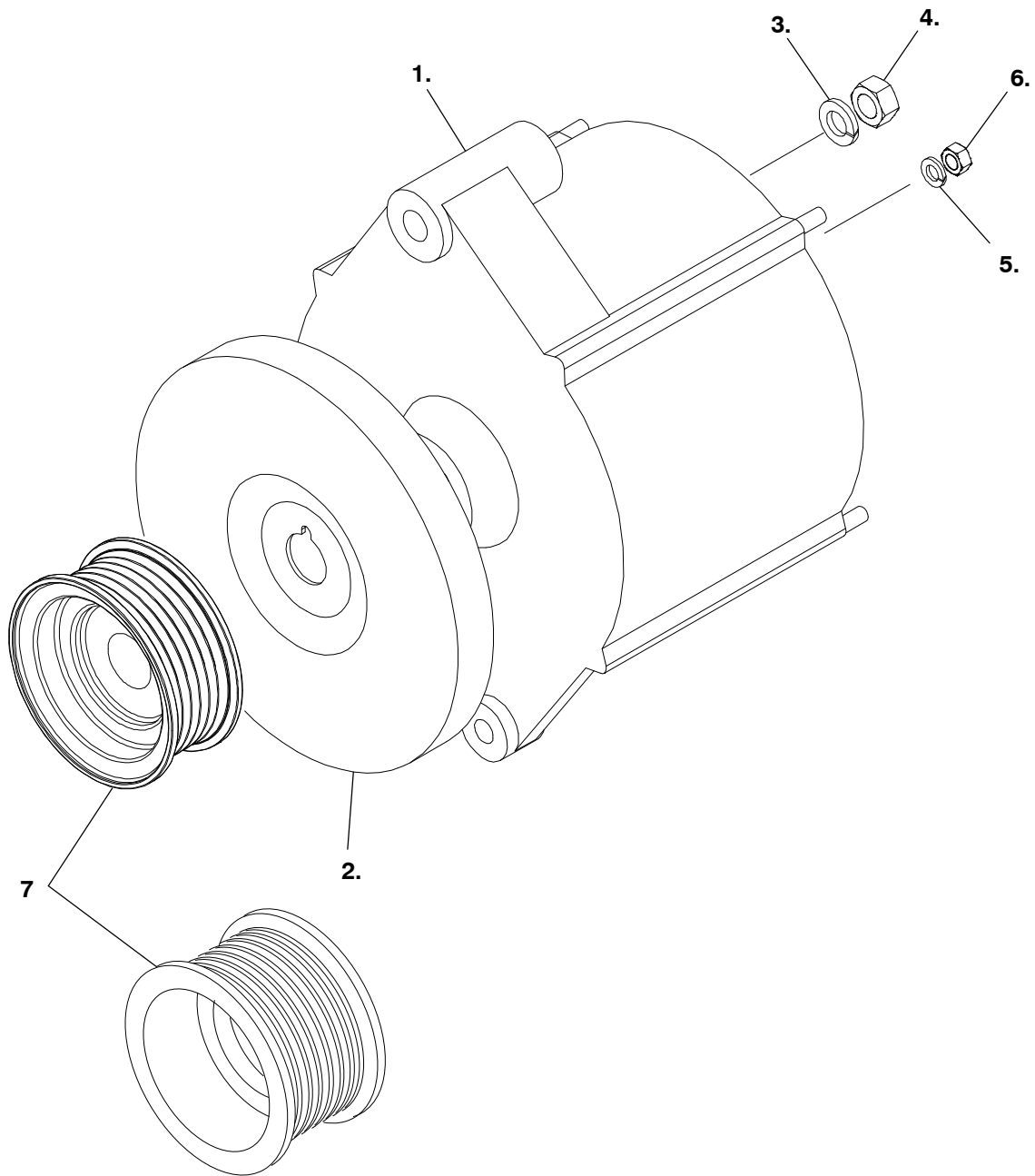
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4329	1	Harness, Wiring – Engine to Control (Includes the Following Parts)	18	323-1710	1	Connector – 10 Pin
2	307-2968-03	1	Relay, Power (K4)	19	323-1712	1	Plug, Cavity (P8)
3	307-2982-02	1	Bracket, Relay (K4)	20	323-1719	1	Housing, Lock (P8)
4	323-1200	11	Socket, Contact	21	323-1815	1	Housing, Connector (E9)
5	323-1302	11	Socket, Contact	22	323-1816	1	Housing, Lock (E9)
6	323-1304	1	Housing, Connector – 6 Place (J2)	23	319-2006-01	1	Bracket, Terminal Mounting
7	323-1306	1	Housing, Connector – 8 Place (J1)	24	332-0604	1	Block, Terminal (T26)
8	323-1374-12	1	Housing, Connector – 12 Place (J3)	25	332-1043	4	Jumper (T26)
9	323-1492	21	Terminal, Socket	26	815-0538	2	Screw, Machine – Round Head – Cross Recessed W/IT (8-32 x .50)
10	323-1546	1	Plug – 4 Pin	27	332-3792-01	1	Cover, Terminal Block (Includes 2 Nylon Spring Clips)
11	323-1548	1	Wedge, Plug – 4 Pin	28	357-0030	1	Rectifier, Silicon
12	323-1582	2	Plug – 12 Pin	29	416-1021-02	1	Boot
13	323-1583	2	Wedgw, Plug – 12 Pin	30	812-0079	2	Screw (#8-32 x .50)
14	323-1591	7	Plug, Seal	31	870-0221	2	Nut, Hex – W/ET (#8-32)
15	323-1707	5	Terminal, Pin (P8)	32	323-1975	1	Housing, Connector (E30) (Not Illustrated)
16	323-1708	12	Seal, Cable (P8, E9, E30)	33	323-1976	1	Lock, Connector (E30) (Not Illustrated)
17	323-1709	7	Terminal, Socket				

Starter Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-2213	1	Starter (1.4kW)	6.	191-2220	1	Housing
1.	191-2215	1	Kit, Starter Brush	7.	191-2221	1	Bearing, Commutator End
2.	191-2216	1	Switch	8.	191-2222	1	Bearing, Pinion End
3.	191-2217	1	Clutch	9.	800-2088	2	Screw, Cap – Socket Head (M10 x 1.5 x 35mm)
4.	191-2218	1	Armature	10.	850-2010	2	Washer, Lock (M10)
5.	191-2219	1	Frame, Commutator End				

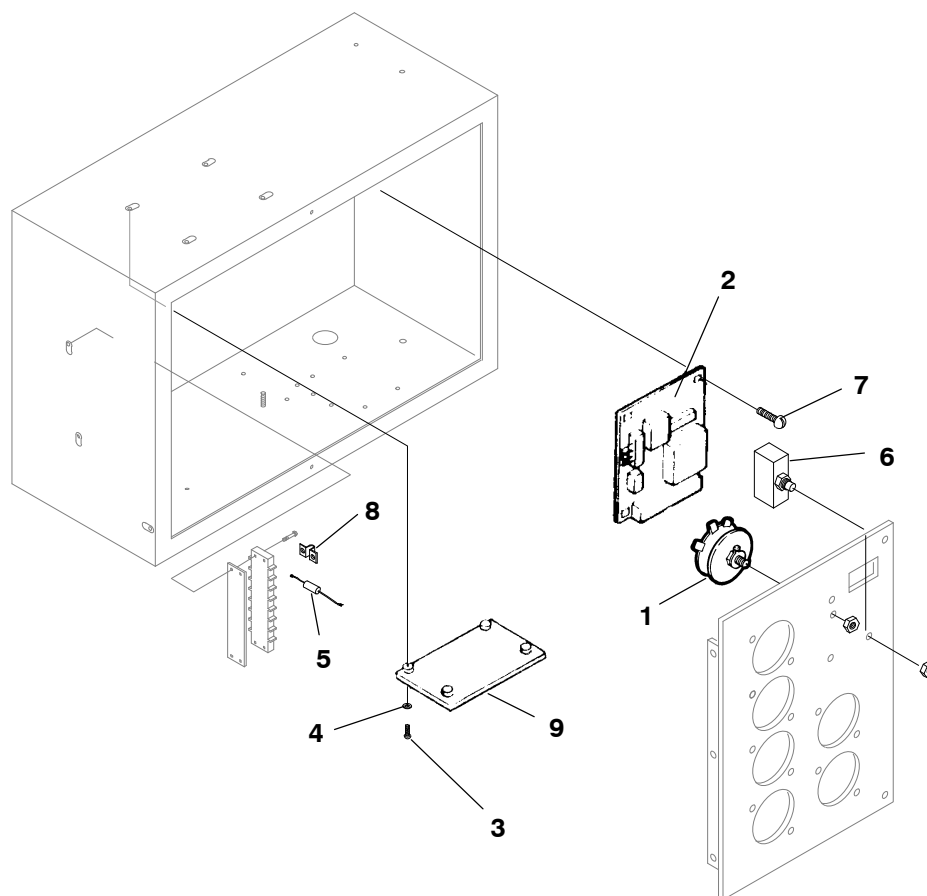
Alternator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	191-2326-01	1	Alternator
2.	191-1981	1	Fan, Alternator
3.	850-2008	1	Washer, Lock (M8)
4.	860-2008	1	Nut, Hex (M8 x 1.25)
5.	850-2005	2	Washer, Lock (M5)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6.	860-2006	2	Nut, Hex (M5 x 0.8)
7.	191-2284	1	Pulley, Alternator
	512-0229	1	8 Groove – Spec A
			6 Groove – Begin Spec B

Voltage Regulator



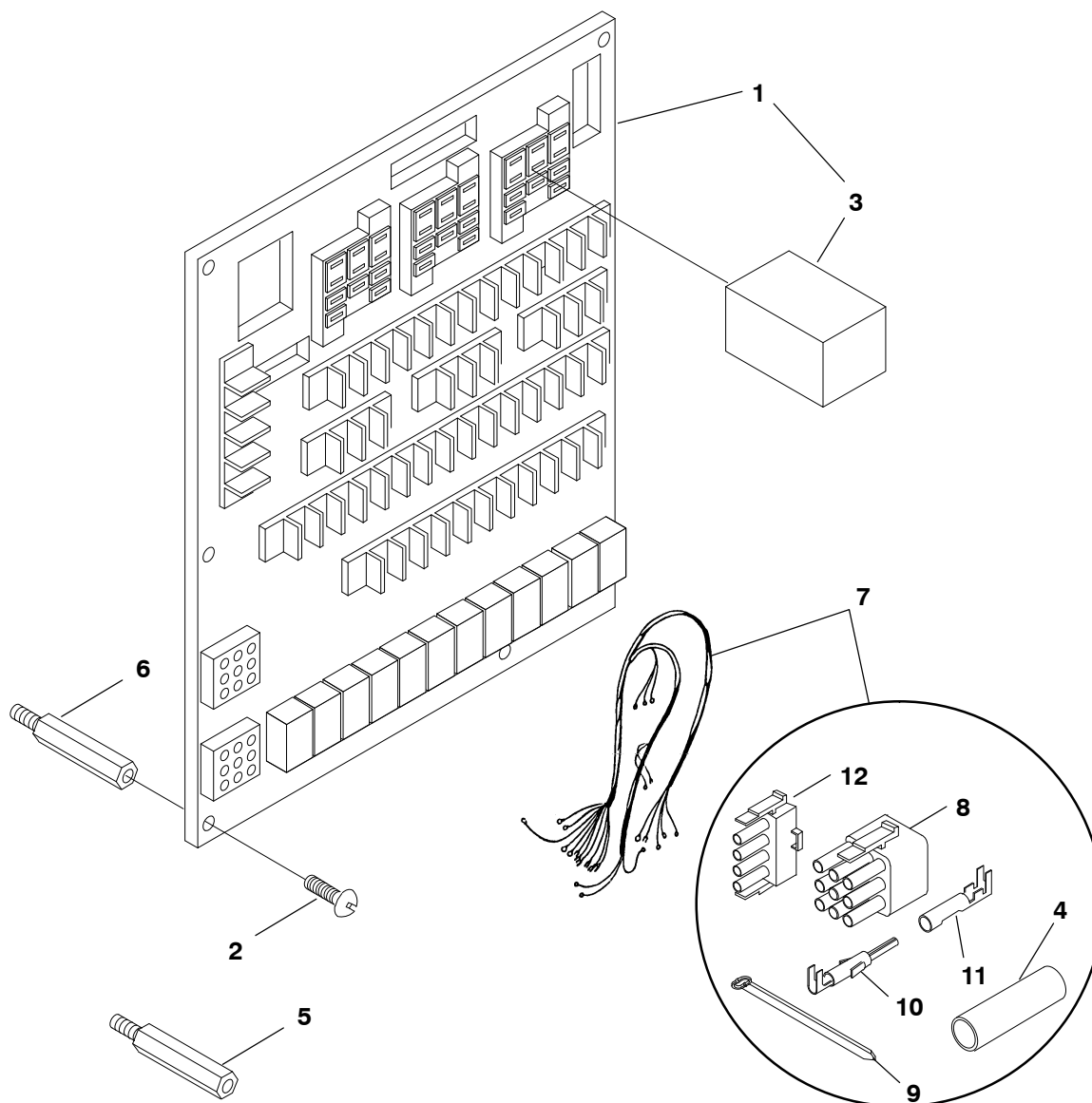
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	303-0261	1	Potentiometer (R21) * 1.5K Ohms (Used With Model SX460 Voltage Regulator)
	303-0285-01	1	# 5K Ohms (Used With Model MX321 Voltage Regulator)
2			Board, Printed Circuit – Voltage Regulator (VR21)
	305-0982	1	* Model SX460
	305-0823	1	# Model MX321
3	815-0901-06	4	#Screw, Pan Head – Cross Recessed – Thread Cutting (#6-32 x 5/8")
4	526-0003	4	#Washer, Flat (#8)
5	350-1222	1	*#Resistor (1.5K Ohms) (Used on TB21)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	320-1688-01	1	*#Breaker, Circuit (CB21)
7			*#Screw, Pan Head – Cross Recessed (#10-32 x 7/8")
	815-0905-08	4	SX460 Voltage Regulator
	815-0905-08	6	MX321 Voltage Regulator
8	332-2605	1	*#Jumper (Used on TB21)
9	305-0868	1	#Board, Printed Circuit – Isolation Transformer (T30)

* – Parts Used on Generators Without Permanent Magnet Exciter

– Parts Used on Generators With Permanent Magnet Exciter

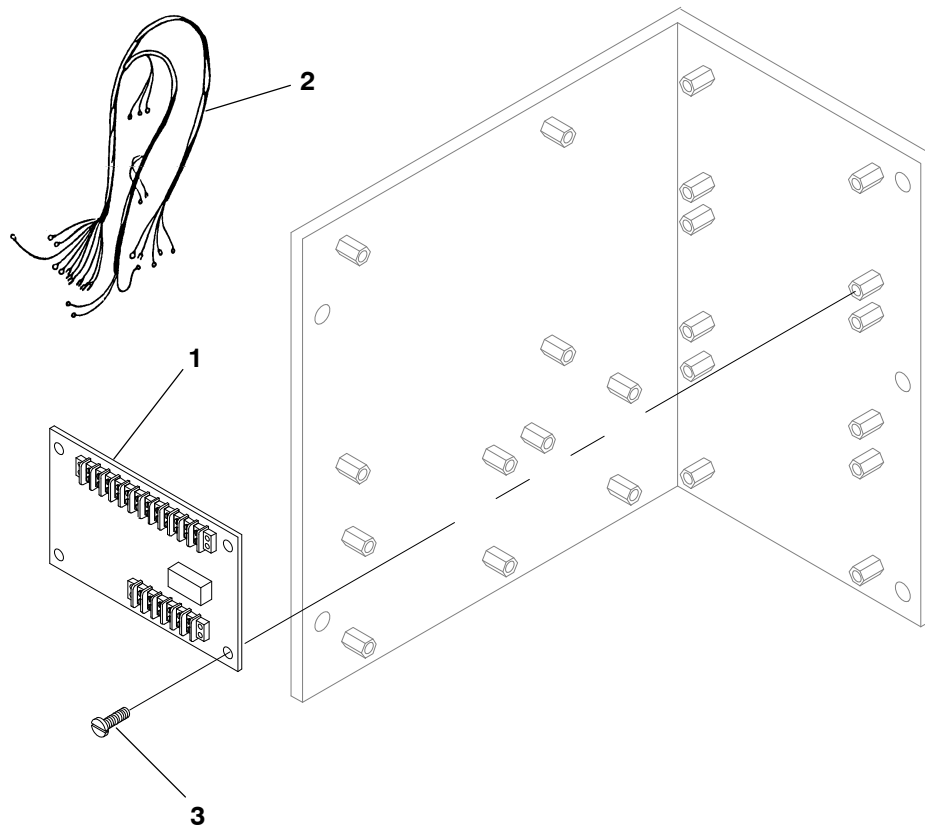
Alarm Relay Board



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

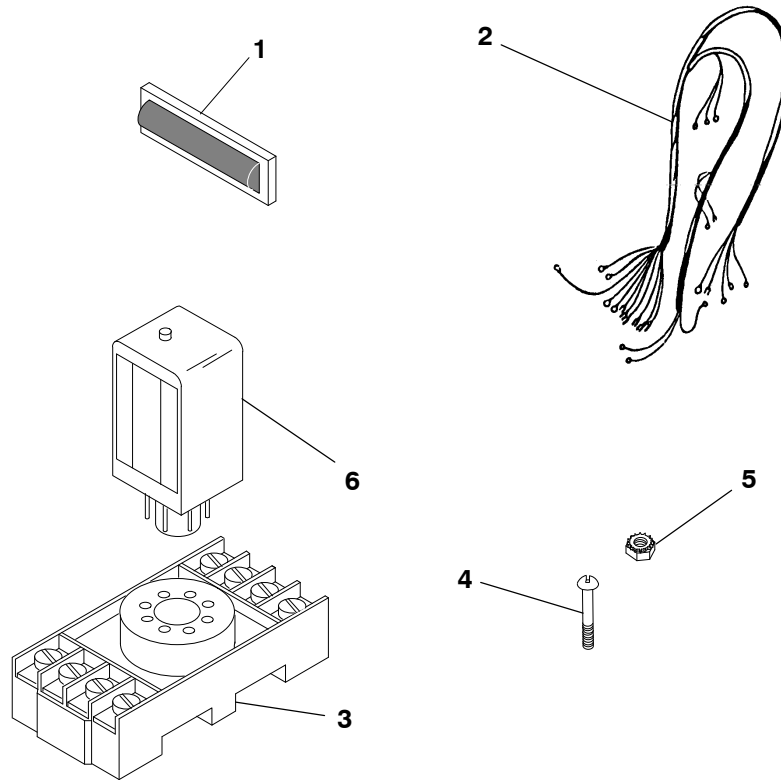
* = Parts includes in 338-2875 Harness Assembly

Common Alarm



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

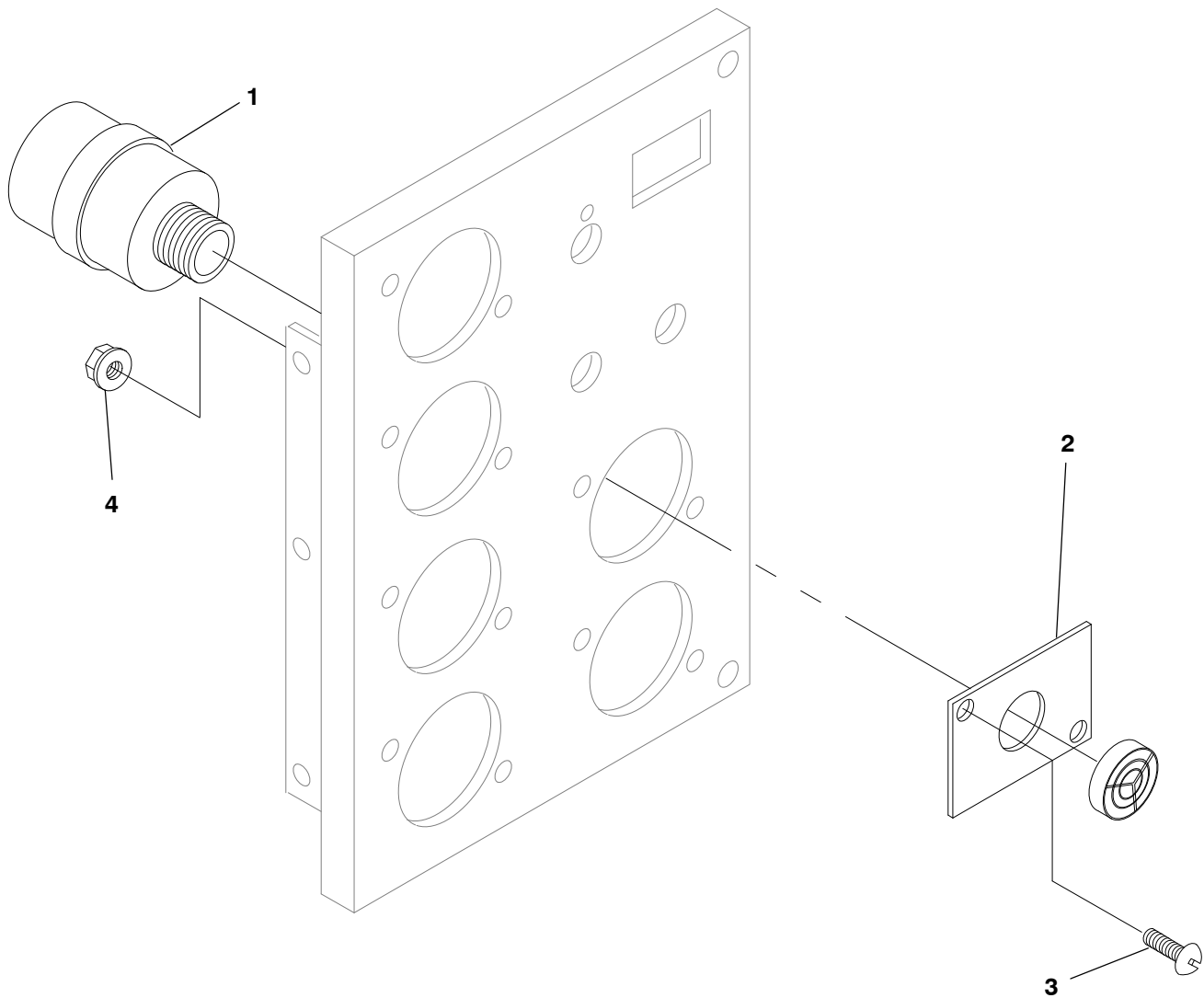
Low Battery Voltage Sensor



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	322-0431-08	1	Lens, Indicator
2	338-3034	1	Harness, Low Battery Voltage
3	323-1410-03	1	Base, Relay
4	812-0084	2	Screw, Machine – Round Head (#8-32 x 1)

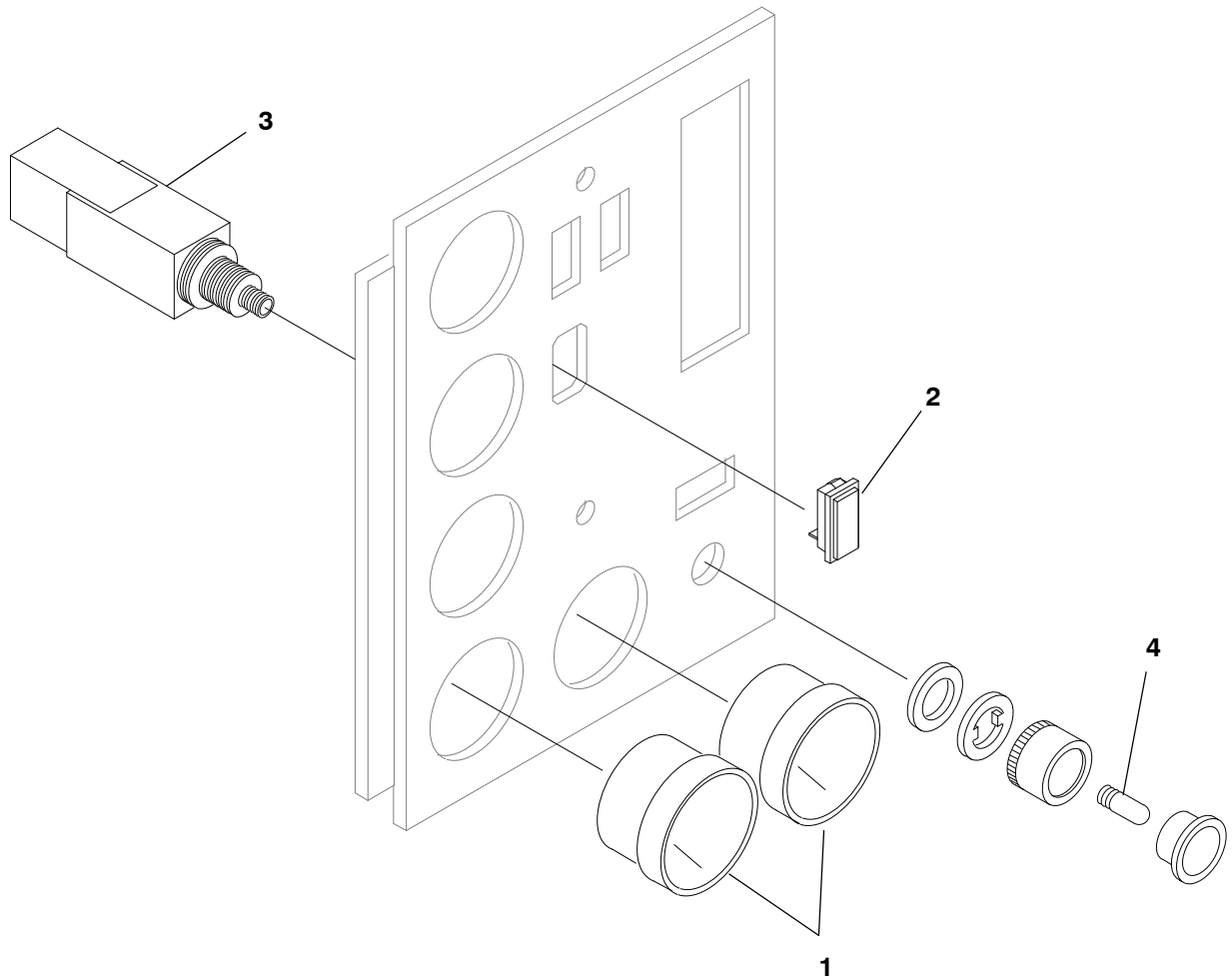
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	870-0221	2	Nut, Hex W/ET (#8-32)
6	305-0901	1	Sensor, Low Battery Voltage

Audible Alarm



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0133	1	Signal, Audible	4	870-0183	2	Nut, Hex W/ET (#6-32)
2	319-0898	1	Plate, Audible Signal				
3	815-0385	2	Screw, Machine – Round Head (#6-32 x 1/2)				

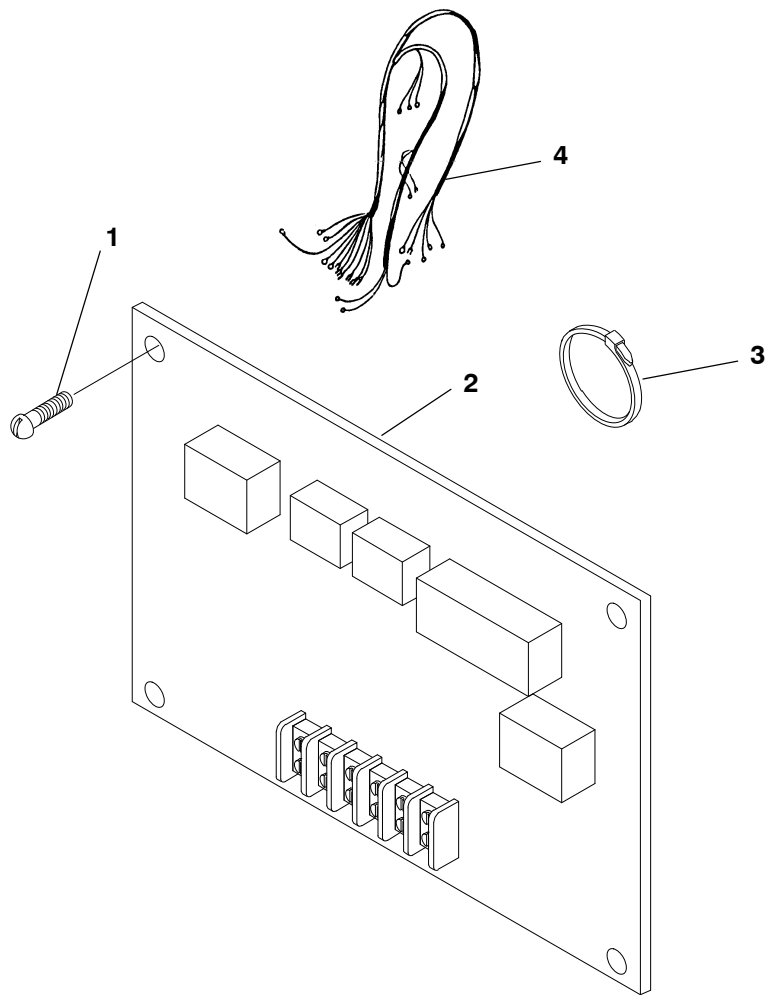
Emergency Stop Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1723	2	Ammeter – Blank Scale
2	301-6257	1	Switch – Blank
3	308-1095	1	Switch, Pushbutton – Emergency Stop (Includes Bulb) (S14)

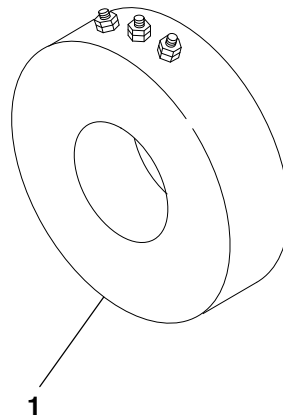
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	322-0487	1	Bulb, Replacement

Time Delay Start/Stop



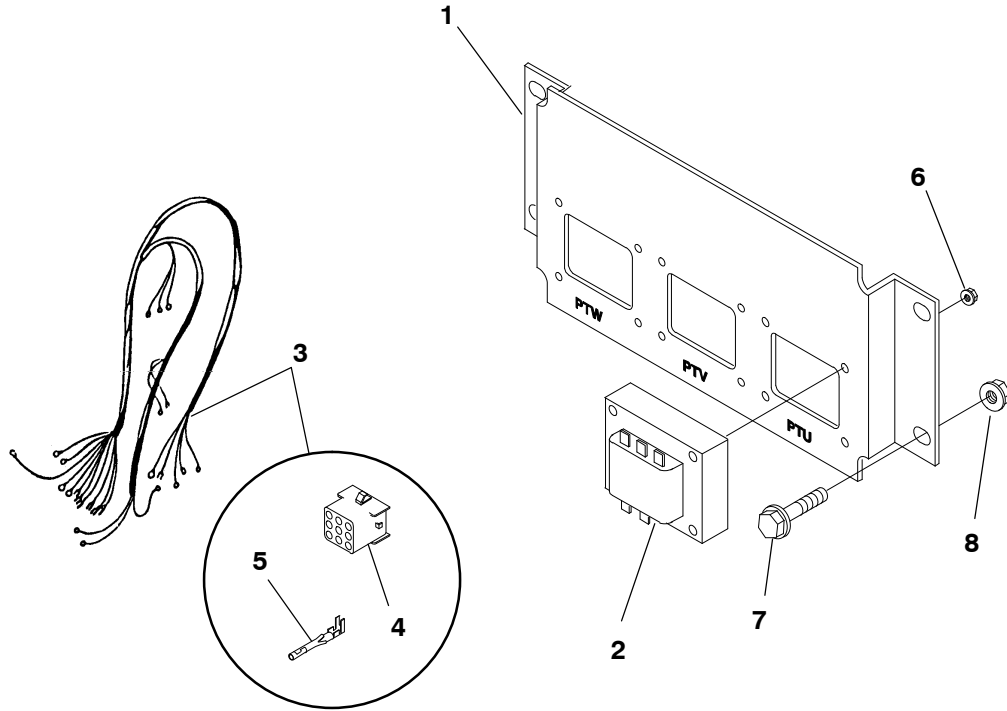
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0937	4	Screw, Pan Head – Cross Recessed (#6-32 x 1/2)	4	338-1904	1	Harness, Time Delay Start/Stop
2	300-2897	1	PCB, Time Delay Start/Stop				
3	332-1445	3	Tie, Cable				

Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT21, CT22, CT23)				
	302-1845-05	3	Ratio 150/5 or 300/5				
	302-1845-06	3	Ratio 200/5 or 400/5				
	302-1845-07	3	Ratio 250/5 or 500/5				

Meter Transformer

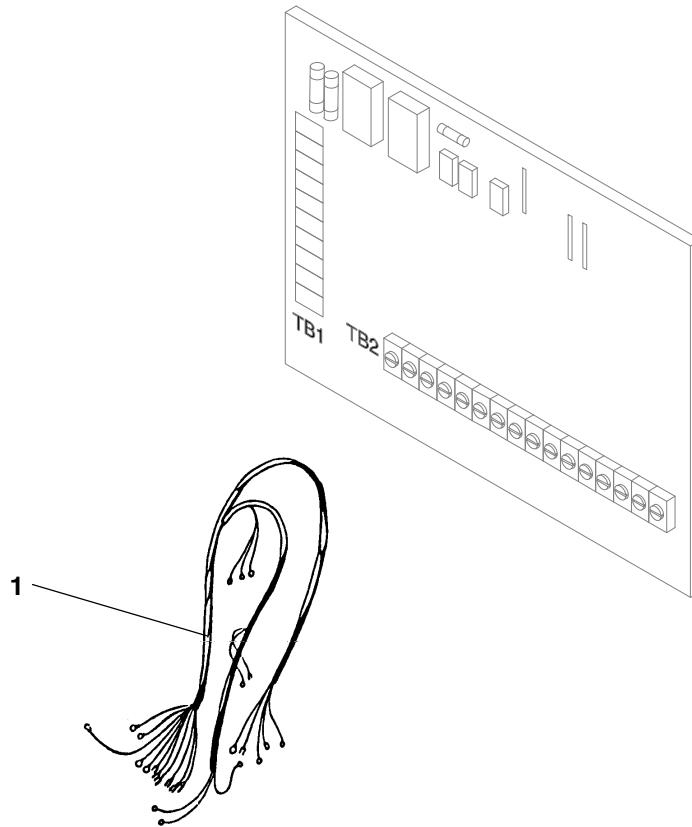


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1245	1	Bracket, Transformer
2	315-0717-00	3	Transformer, Meter
3	338-3337	1	Harness, Transformer (Includes Parts Marked *)
4	323-1644-02	1	* Housing, Cap (J1)
5	323-1648	9	* Socket, Terminal

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	870-0221	12	Nut, Hex - W/ET (#8-32)
7	821-0016	4	Screw, Self-Locking - Hex Flange Head (5/16-18 x 3/4)
8	870-0257	4	Nut, Self Locking (5/16-18)

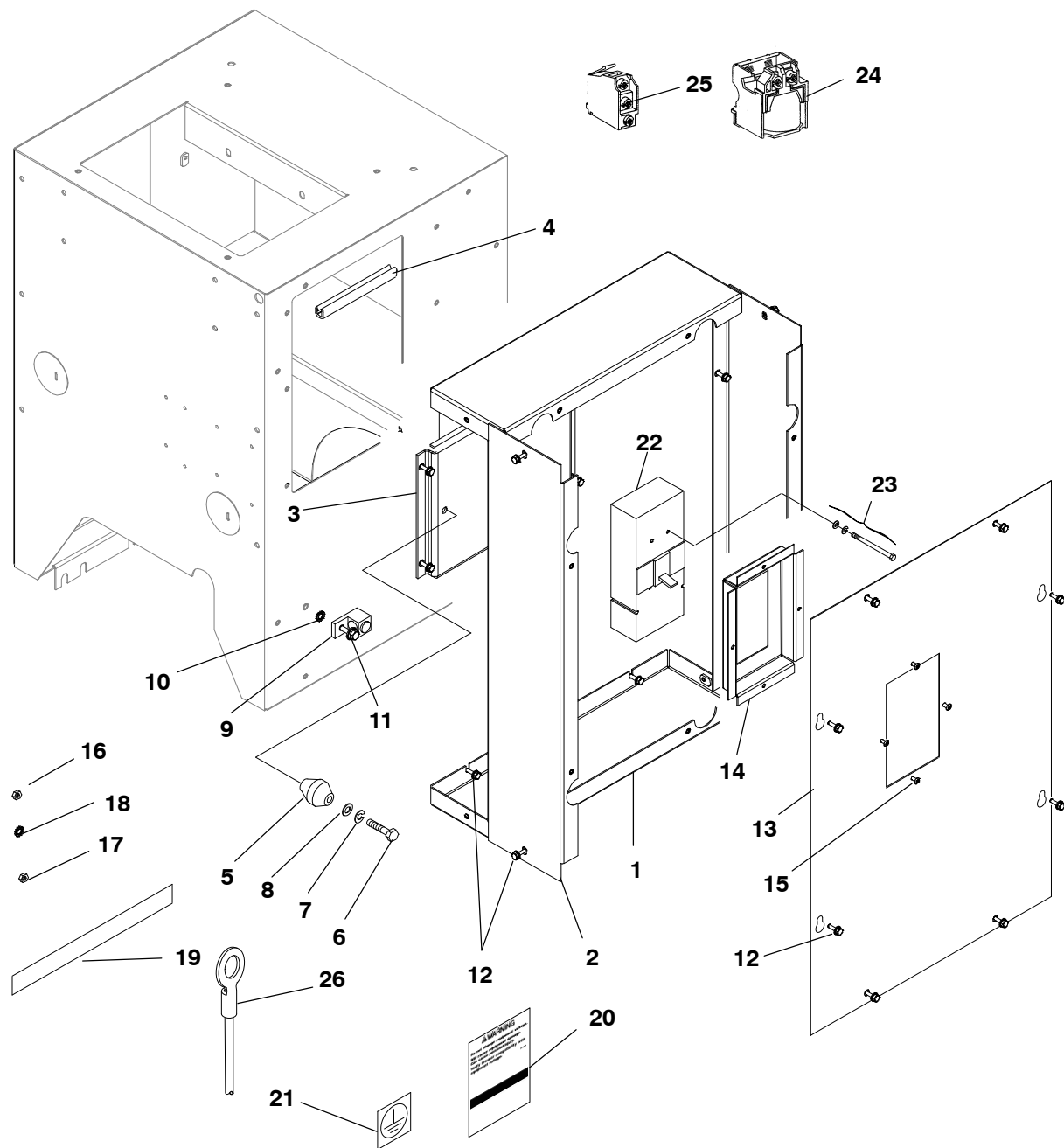
* - Parts Included in 338-3337 Wiring Harness

Fuel Alarm



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3740-01	1	Harness, Fuel Alarm Single Fuel				
	338-4037	1	Dual Fuel				

Circuit Breaker



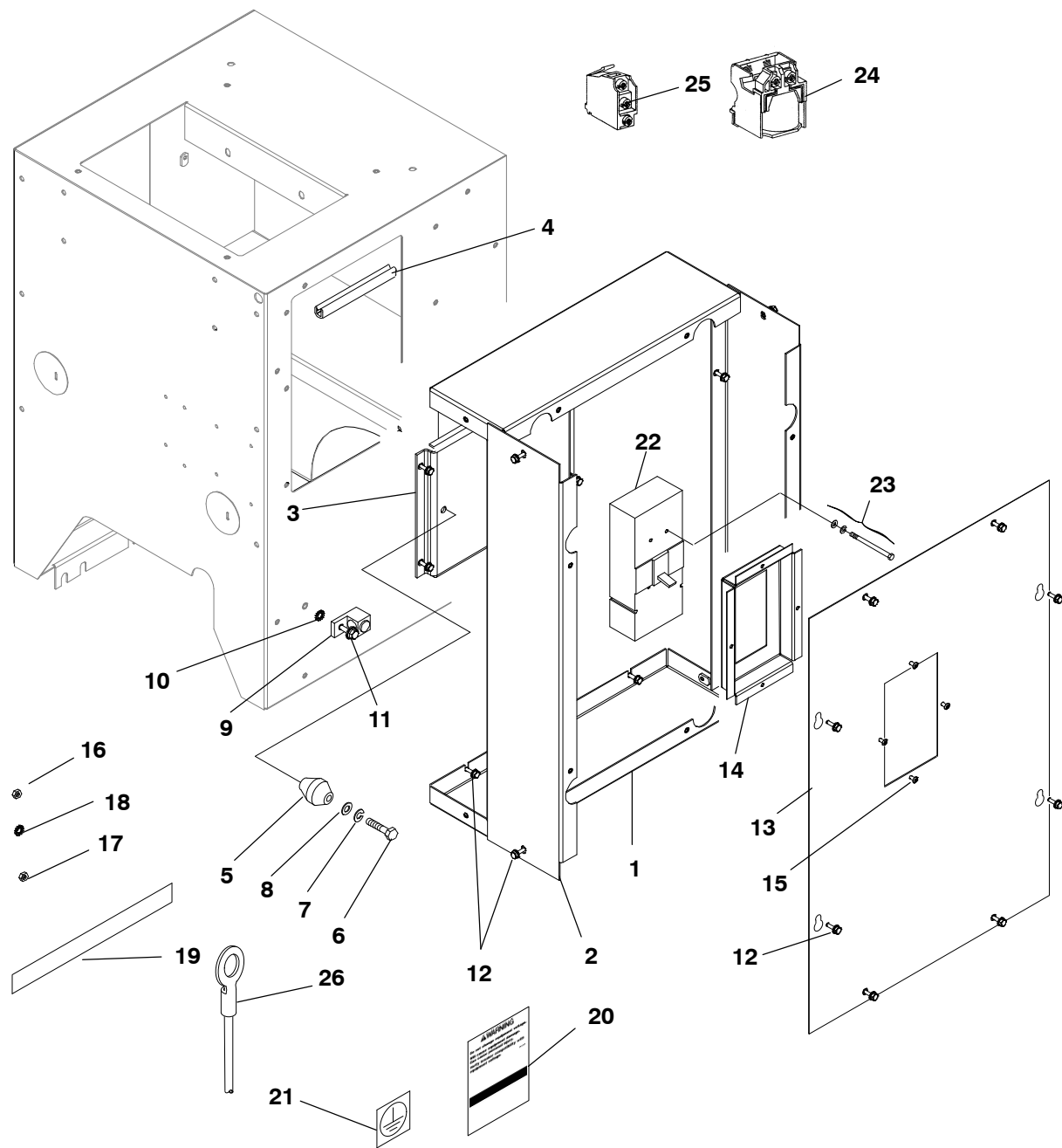
Circuit Breaker

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3072	2	Panel, Box – Top and Bottom	16	860-0012	4	Nut, Hex (#12-24) Mounting
2	319-2978	2	Panel, Box – Side				Mounting Hardware Used On
3	319-3149	1	Bracket, Mounting – Circuit Breaker				320-1962-XX Circuit
4	508-0239	–	Edging – Bulk (Order By The Foot – 2 Feet Required)	17	870-0221	4	Breakers
5	332-2744-07	1	*Standoff, Insulator				Nut, Hex – W/ET (#8-32)
6	800-0048	2	*Screw, Cap – Hex Head (3/8-16 x 3/4")	18	856-0005	4	Mounting Hardware Used On
7	850-0050	2	*Washer, Lock – Spring (3/8")				320-1961-XX Circuit
8	526-0029	1	*Washer, Flat (3/8")				Washer, Lock – EIT (#12)
9	332-1473	1	Lug, Solderless	19	091-0002	1	Mounting Hardware Used On
10	856-0008	1	Washer, Lock – EIT (5/16")				320-1962-XX Circuit
11	821-6003-02	1	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)				Breakers
12	821-6002-03	24	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	20	098-2304	1	Strip, Copper (Used for
13	319-3151	1	Cover, Box	21	098-6537	1	wrapping end of leads before
14			Cup				securing to circuit breakers)
	319-3242	1	1-1/2" x 3-1/2" Opening				(Quantity Used As Required)
	319-3150	1	2-1/2" x 4-3/4" Opening				Label, Warning
	319-3240	1	3" x 3-15/16" Opening				Label, Ground
15	818-0231-02	4	Rivet, Pop				

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

Continued...

Circuit Breaker



Circuit Breaker

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				23			Package, Hardware – Circuit Breaker Mounting (Includes Screws, Nuts and Lock Washers) Used With 320-1959-XX Circuit Breakers Used With 320-1960-XX Circuit Breakers Used With 320-1962-XX Circuit Breakers (Screws Only)
22			Breaker, Circuit 2 Pole (UL) 320-1961-07 1 100 Amp (240 Volts) 320-1961-06 1 125 Amp (240 Volts) 320-1961-05 1 150 Amp (240 Volts) 320-1961-04 1 175 Amp (240 Volts) 320-1961-03 1 200 Amp (240 Volts) 320-1961-02 1 225 Amp (240 Volts) 320-1961-01 1 250 Amp (240 Volts) 320-1962-03 1 * 300 Amp (240 Volts) 320-1962-02 1 * 350 Amp (240 Volts) 320-1962-01 1 * 400 Amp (240 Volts) 3 Pole (UL) 320-1961-14 1 100 Amp (240 Volts) 320-1961-13 1 125 Amp (240 Volts) 320-1961-12 1 150 Amp (240 Volts) 320-1961-11 1 175 Amp (240 Volts) 320-1961-10 1 200 Amp (240 Volts) 320-1961-09 1 225 Amp (240 Volts) 320-1961-08 1 250 Amp (240 Volts) 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) 320-1959-19 1 * 40 Amp (600/750 Volts) 320-1959-18 1 * 50 Amp (600/750 Volts) 320-1959-17 1 * 60 Amp (600/750 Volts) 320-1959-10 1 * 70 Amp (600/750 Volts) 320-1959-09 1 * 80 Amp (600/750 Volts) 320-1959-08 1 * 90 Amp (600/750 Volts) 320-1959-07 1 * 100 Amp (600/750 Volts) 320-1959-06 1 * 125 Amp (600/750 Volts) 320-1959-05 1 * 150 Amp (600/750 Volts) 320-1959-04 1 * 175 Amp (600/750 Volts) 320-1959-03 1 * 200 Amp (600/750 Volts) 320-1959-02 1 * 225 Amp (600/750 Volts) 320-1959-01 1 * 250 Amp (600/750 Volts) 320-1960-06 1 * 300 Amp (600/750 Volts) 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) 4 Pole (IEC) 320-1959-13 1 * 160 Amp (750 Volts) 320-1959-12 1 * 200 Amp (750 Volts) 320-1959-11 1 * 250 Amp (750 Volts) 320-1960-10 1 * 320 Amp (750 Volts) 320-1960-09 1 * 400 Amp (750 Volts) 320-1960-08 1 * 500 Amp (750 Volts)	24	320-1981-02	1	Trip, Shunt (12V)
				25	320-1981-01	2	Switch – Used as an Auxiliary Contact or Trip Alarm
				26			Lead (Quantity Used As Required) 226-0893 1 3/8" Ring Terminal End to 1" Stripped End – No Markings (33") (#1/0 Wire) 226-3505-01 1 3/8" Ring Terminal End to 1" Stripped End – No Markings (30") (#4 Wire) 226-3505-03 1 3/8" Ring Terminal End to 3/8" Ring Terminal End – Marked "LO" (30") (#4 Wire) 226-3505-04 1 3/8" Ring Terminal End to 3/8" Ring Terminal End – Marked "LO" (30") (#1/0 Wire)
				* – Includes Mounting Hardware			

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