



Parts Manual

Generator Set with Detector Control

GGHE (Spec A–D)

GGHF (Spec A–D)

MODEL IDENTIFICATION

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

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

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

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

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



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



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



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

PRODUCT SAFETY PRECAUTIONS



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



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



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



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

Introduction

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

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

Replacement Engine

Cummins Power Generation Generator Model	Ford Engine Model	Base Engine Number
GGHE – Spec A	WSG1068I–6005–A	0C–680–AA
GGHF – Spec A	WSG1068I–6005–A	0C–680–AA
GGHE – Spec B–D	WSG1068I–6005–A	2C–680–AA
GGHF – Spec B–D	WSG1068I–6005–A	2C–680–AA

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

Generator Set Data Table

Model/ Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
50GGHE*	50,000	#	50	4,6,12	1 or 3	12 VDC
60GGHE	60,000	#	60	4,6,12	1 or 3	12 VDC
60GGHF	60,000	#	50	4,6,12	1 or 3	12 VDC
75GGHF	75,000	#	60	4,6,12	1 or 3	12 VDC

* – Available in Spec A and B. Discontinued in Spec C.

– Broad range reconnectible

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Abbreviations

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

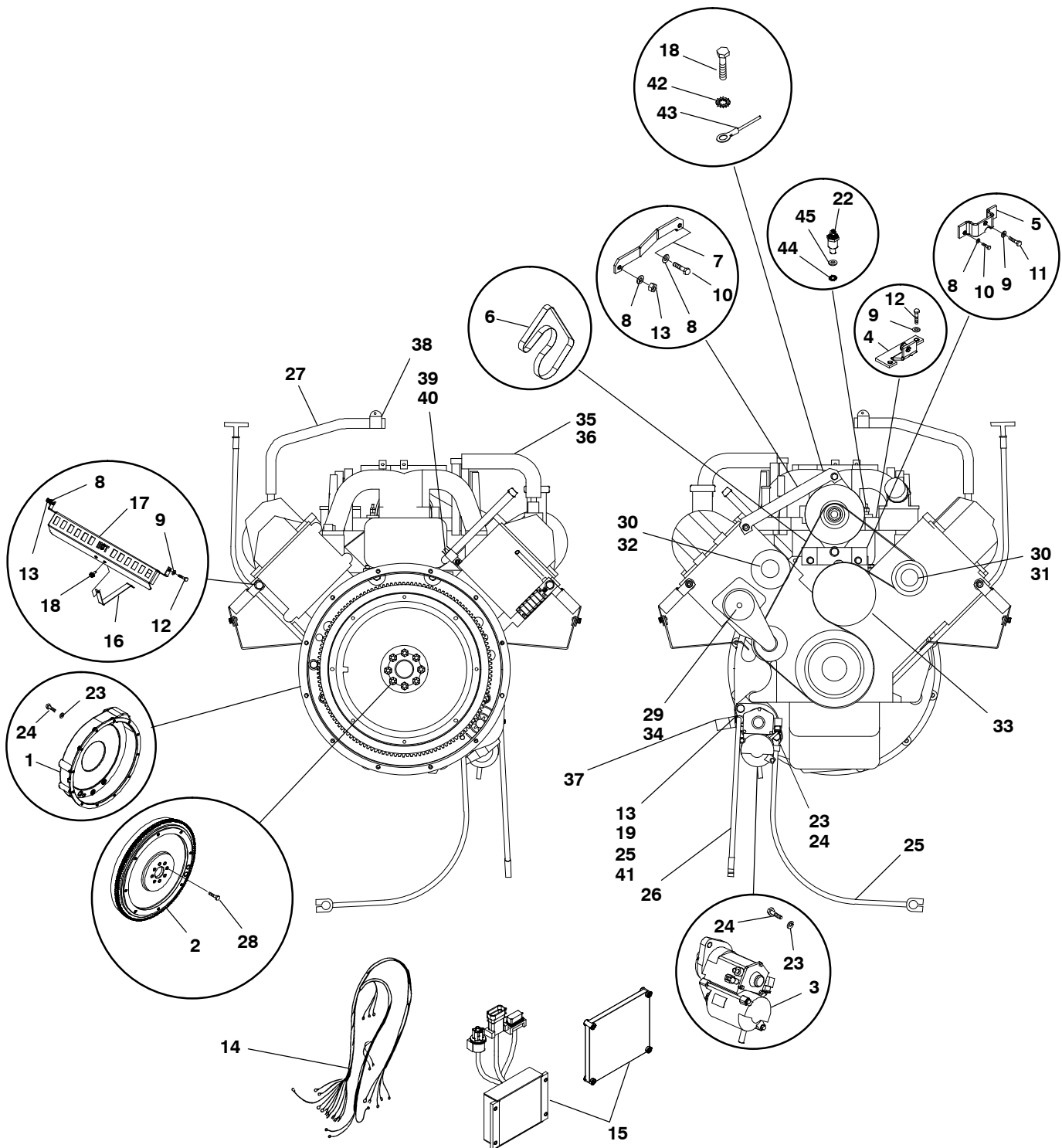
AC	Alternating Current	mm	Millimeter
Amp	Ampere	MOH	Mobile Off Highway
A/R	As Required	NFS	Not For Sale
AVR	Automatic Voltage Regulator	NPT	National Pipe Thread
AWG	American Wire Gauge	OD	Outside Diameter
Deg	Degree	oz.	Ounce
DC	Direct Current	PMG	Permanent Magnet Generator
EFC	Electronic Fuel Control	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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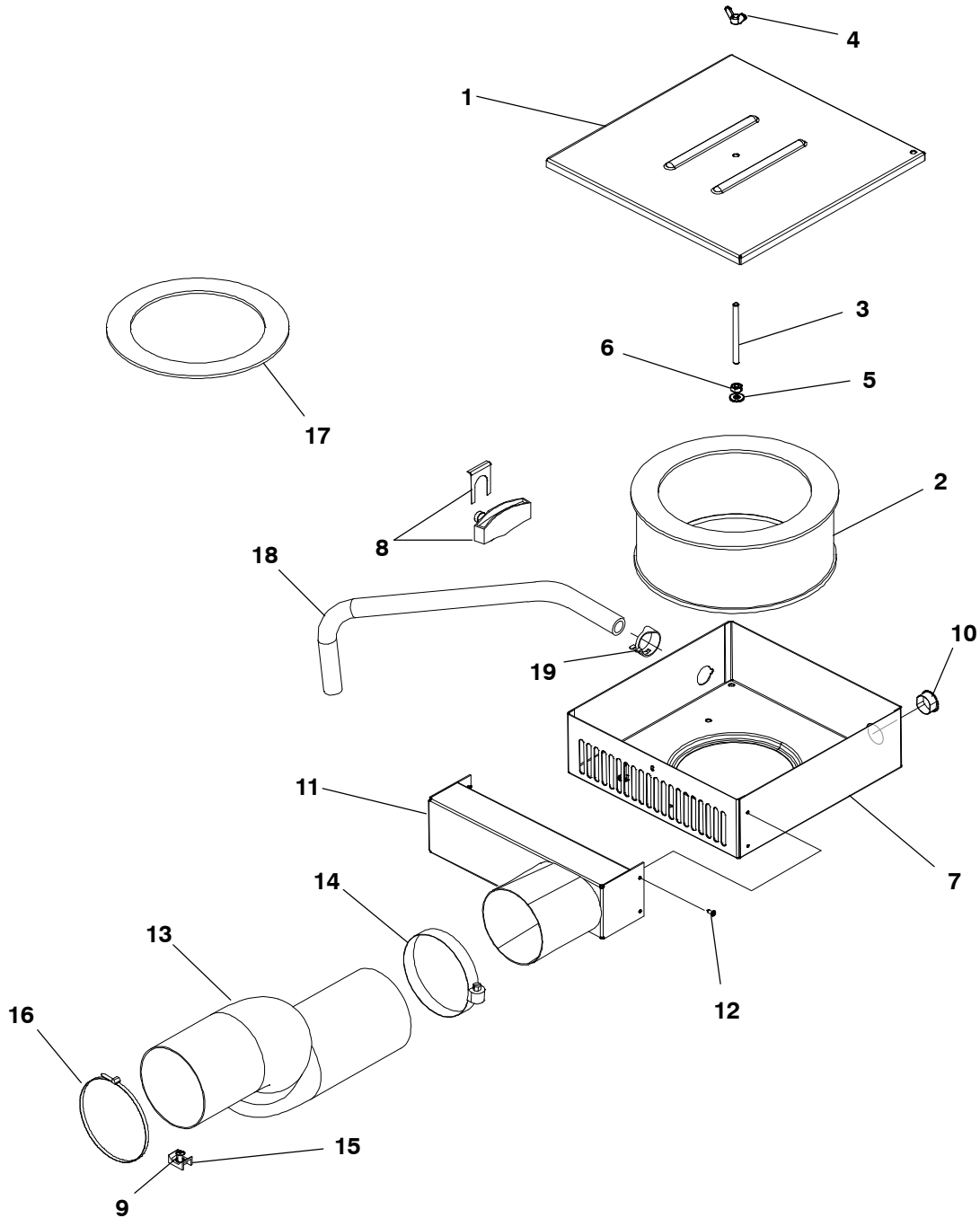
External Engine Parts



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	23	850-2010	7	Washer, Lock – Split (M10)
2	104-1971	1	Flywheel and Ring Gear	24	800-2088	7	Screw, Cap – Hex Head (M10 x 1.5 x 35)
3	191-2213	1	Starter (1.4 Kw) (See separate page for components)	25	416-0549	2	Cable, Battery
4	191-2322-02	1	Bracket, Alternator – Rear	26	416-1019	1	Boot, Battery (Red)
5	191-2280-02	1	Bracket, Alternator – Front	27	503-2166	1	Hose, Breather
6			Belt, Serpentine	28	104-1974	8	Bolt, Flywheel (M10 x 1.5 x 26.5)
	511-0161-18	1	8 Groove – Spec A	29	130-5256	3	Screw, Tensioner
	511-0161-21	1	6 Groove – Begin Spec B	30	130-5257	2	Screw, Idler
7	191-2281-02	1	Bracket, Alternator	31			Pulley, Idler
8	526-2100	6	Washer, Flat (M8)		512-0209	1	8 Groove – Spec A
9	526-2120	5	Washer, Flat (M10)		512-0251	1	6 Groove – Begin Spec B
10	800-2058	3	Screw, Cap – Hex Head (M8 x 1.25 x 25)	32			Pulley, Idler
11	800-2097	1	Screw, Cap – Hex Head (M10 x 1.5 x 80)		512-0210	1	Flat – Spec A
12	800-2086	4	Screw, Cap – Hex Head (M10 x 1.5 x 35)		512-0250	1	Smooth – Begin Spec B
13	860-2008	5	Nut, Hex (M8 x 1.25)	33	512-0211	1	Pulley, Water Pump
14			Harness, Wiring – Ignition	34			Belt Tensioner Assembly
	166-0873	1	Spec A-C		512-0212	1	Spec A
	338-4335	1	Begin Spec D		512-0252	1	Begin Spec B
15			Module, Ignition	35	503-2168	1	Hose, C/Case – Vent
	166-0871	1	Spec A-C	36			Valve, PCV
	166-0890-01	1	Begin Spec D		504-0202	1	Spec A
16	154-3107-02	2	Strap, Guard – Manifold		123-2196	1	Begin Spec B
17	154-3100-02	2	Guard, Manifold	37	332-2634	1	Clamp, J
18	821-6002-02	3	Screw, Hex Head (M6 x 1.0 x 12)	38	503-0183	1	Clamp, Hose – Spec A
19	850-2008	2	Washer, Lock – Split (M8)	39	526-2080	1	Washer (M6) – Spec A-C
20	850-2005	2	Washer, Lock – Split (M5)	40	862-0026-54	1	Nut (M6) – Spec A-C
21	860-2006	2	Nut, Hex (M5 x 0.8)	41	416-1084	1	Boot, Starter (Red)
22	193-0318	1	Sender, Water Temperature	42	856-0006	1	Washer, Lock – W/EIT (1/4)
				43	338-4210	1	Harness, Jumper
				44	856-0003	1	Washer, Lock – W/EIT (#10)
				45	526-0008	1	Washer, Flat (#10)

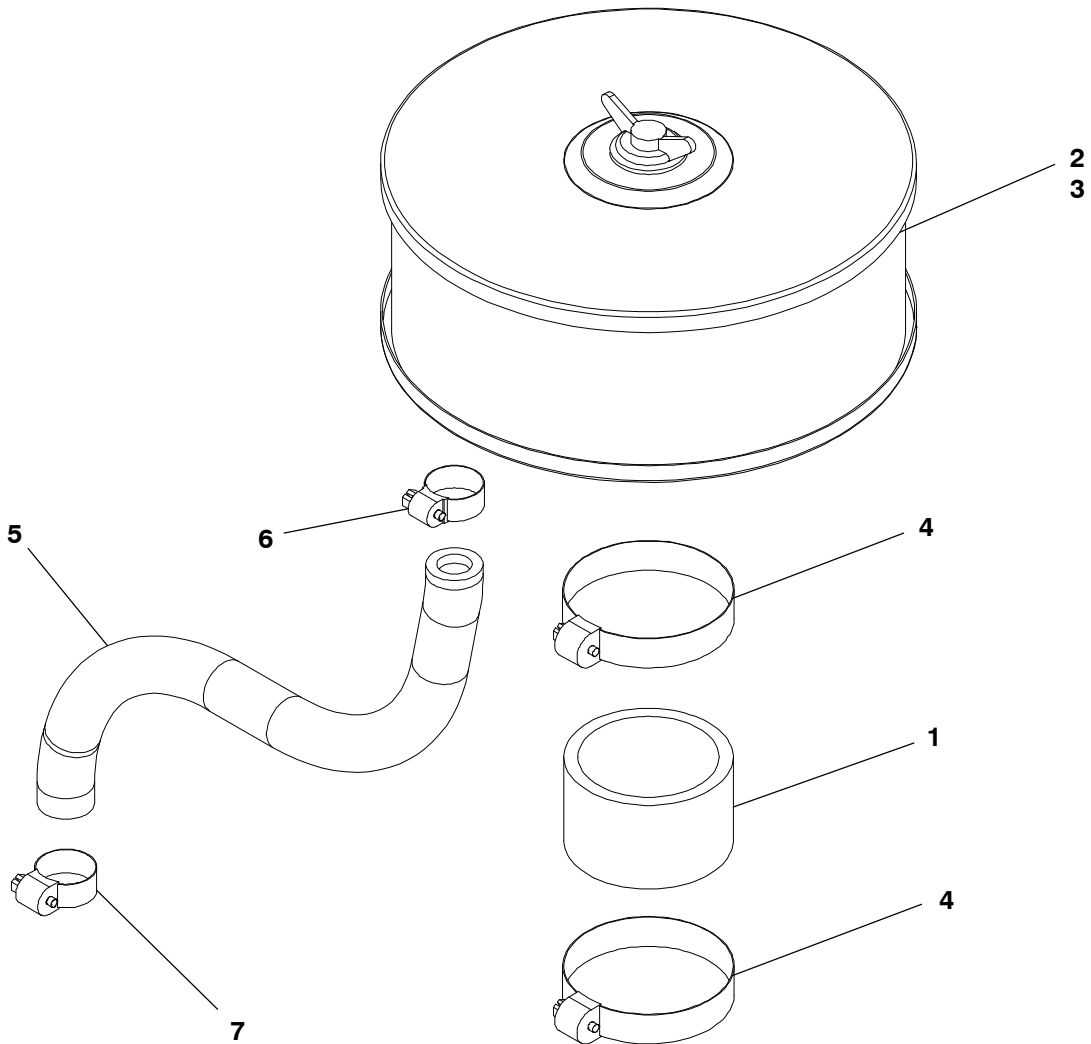
Air Cleaner Spec A-B



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3140	1	Cleaner, Air – Top	11	140-3267-02	1	* Box, Air
2	140-3147	1	Filter, Air	12	818-0237-01	7	* Rivet, Pop
3	520-1011	1	Stud (1/4-20 x 3.12)	13	140-3265	1	* Hose, Air Inlet
4	865-0020	1	Nut, Wing	14	503-1870-07	1	* Clamp, Hose
5	526-0018	1	Washer, Flat (1/4)	15	332-3561	1	* Base, Mounting
6	862-0001	1	Nut, Hex (1/4-20)	16	332-1389	1	* Tie, Cable
7	140-3269-02	1	Cleaner, Air – Bottom	17	140-3246	1	Gasket, Air Cleaner
8	140-3146	1	Breather, Air Cleaner	18	503-2166	1	Hose, Breather
9	818-0231-02	1	* Rivet, Pop (3/16)	19	503-0183	1	Clamp, Hose
10	517-0289	1	Plug, Hole				

* – Used on Generator Sets with F172 or F173 Enclosure

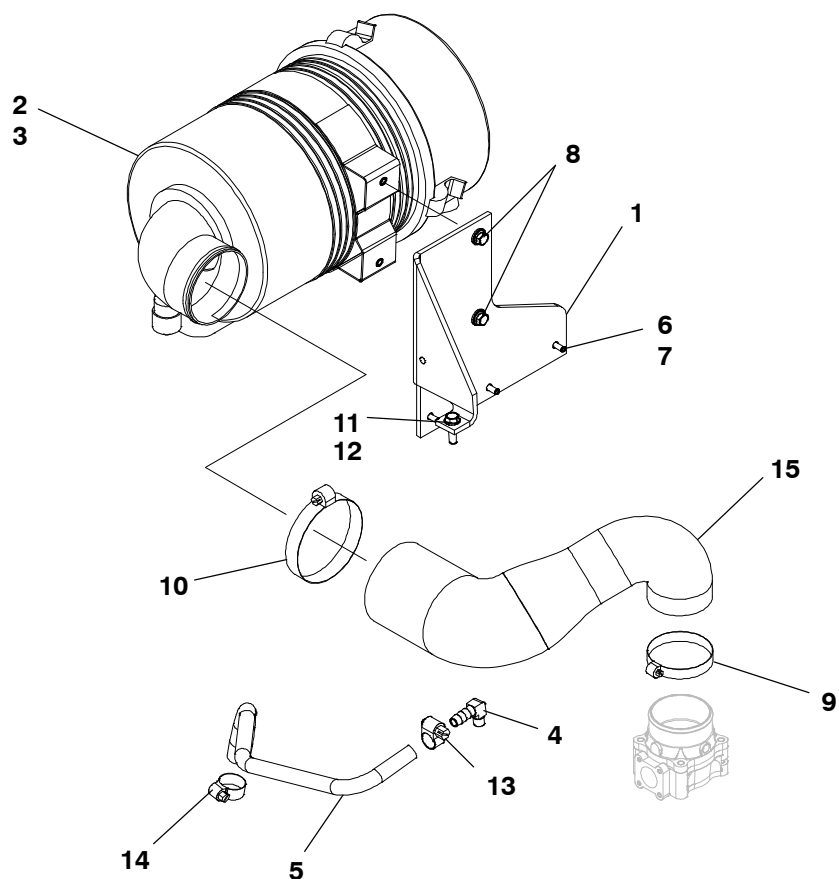
**Air Cleaner
Normal Duty
Begin Spec C**



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

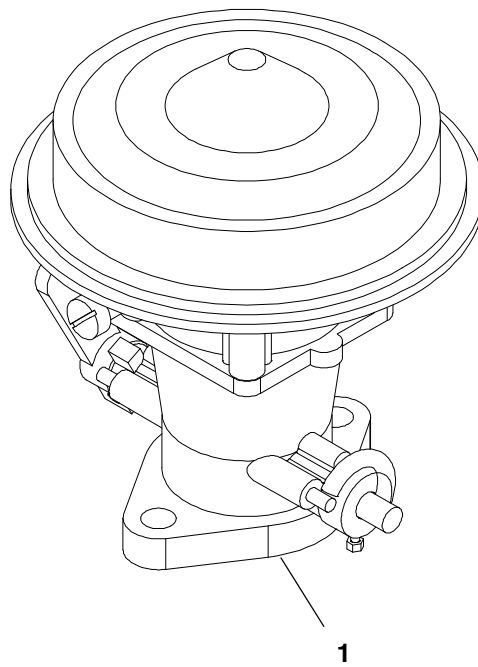
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	503-2303	2	Hose, Breather
6	503-0446	1	Clamp, Hose
7	503-0183	1	Clamp, Hose

Air Cleaner Heavy Duty Begin Spec C



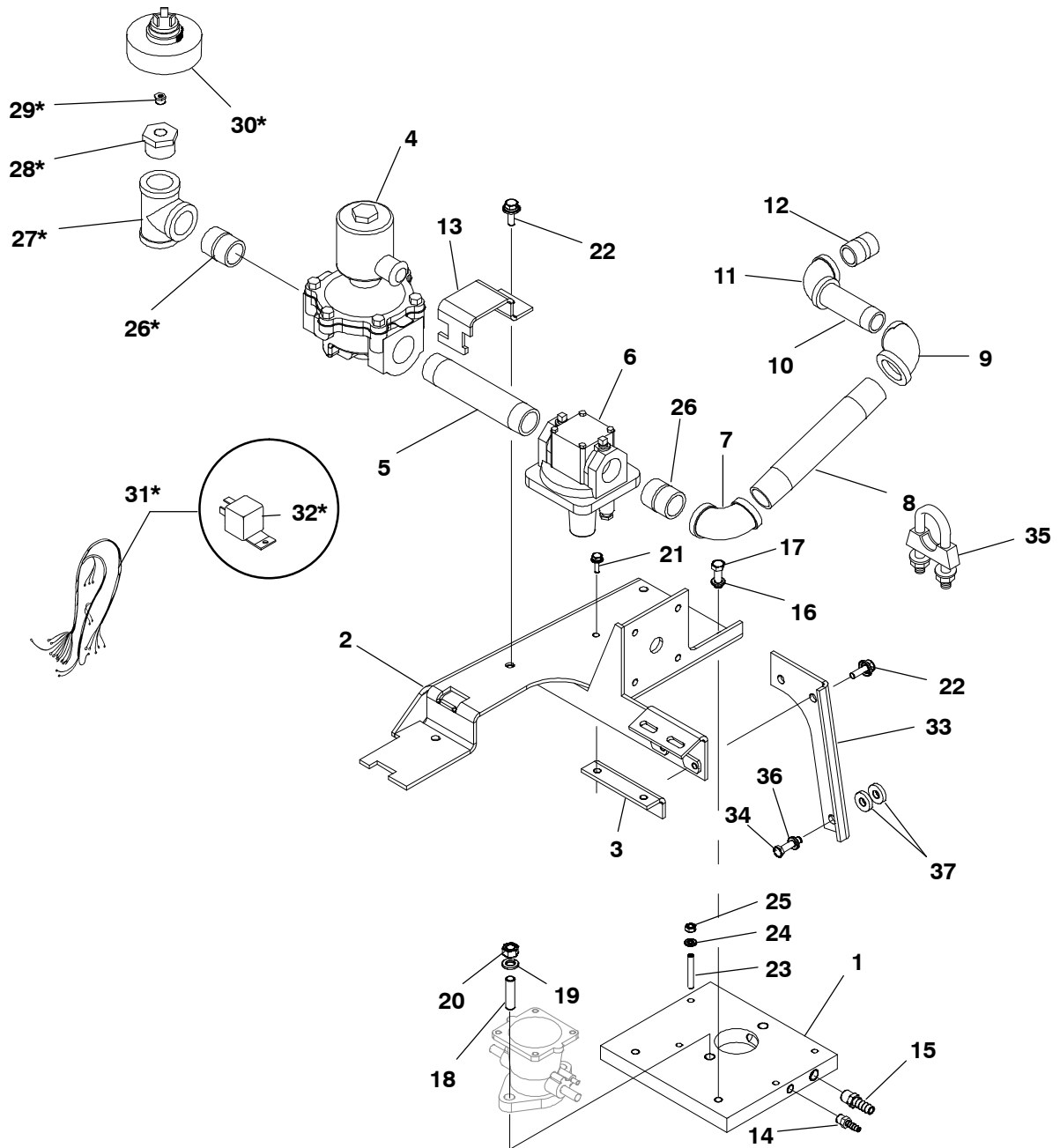
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3385-02	1	Bracket, Air Cleaner	9	503-1870-05	1	Clamp, Hose
2	140-3297	1	Cleaner, Air	10	503-1870-06	1	Clamp, Hose
3	140-3440	1	Element, Replacement – Air Cleaner	11	526-2100	1	Washer, Flat (M8)
4	502-1353-01	1	Elbow, Pipe – 90°	12	800-3017-21	1	Screw, Cap – Hex Head (M8 x 1.25 x 30)
5	503-2297	1	Hose, Breather	13	503-0685	1	Clamp, Hose
6	526-0018	3	Washer, Flat (1/4)	14	503-0183	1	Clamp, Hose
7	800-2034	3	Screw, Cap – Hex Head (M6 x 1 x 20)	15	503-2287	1	Hose, Air Cleaner
8	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)				

Carburetor Spec A-B



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1140	1	Carburetor (Includes Gaskets)				
	140-3246	1	Gasket, Air Cleaner				
	145-0787	1	Gasket, Flange (1-3/4")				

Fuel System
Natural Gas or LP Vapor
Spec A-B

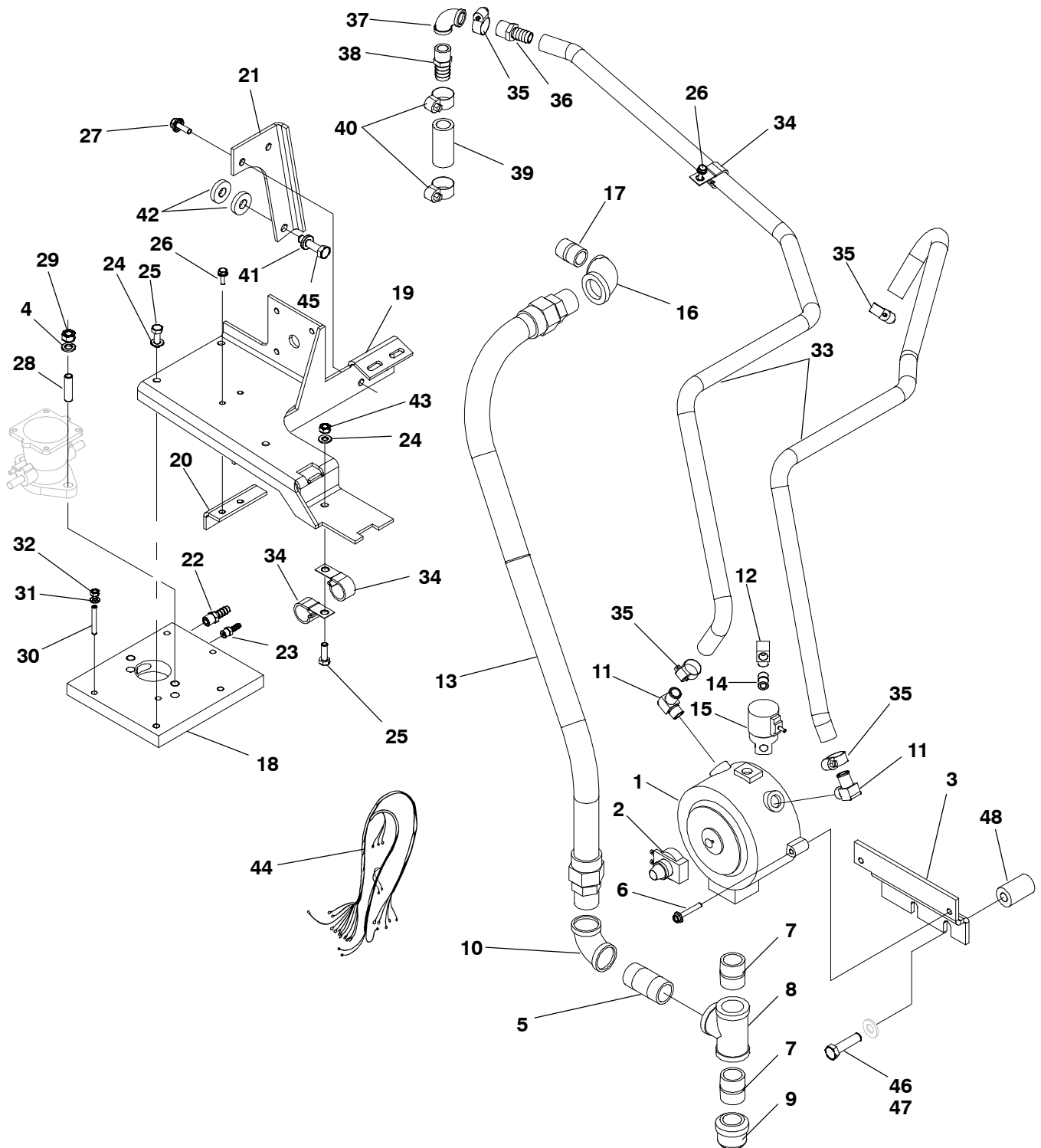


Fuel System
Natural Gas or LP Vapor
Spec A-B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	145-0781	1	Adapter, Carburetor	22	821-6003-02	3	Screw, Hex Head (M8 x 1.25 x 20)
2	151-0775-02	1	Bracket, Governor	23	520-1024	4	Stud, Double Ended (M6 x 1.0 x 45)
3	151-0776-02	1	Bracket, Governor – Fuel	24	526-2080	4	Washer, Flat (M6)
4	307-2884	1	Valve, Solenoid	25	862-0026-54	4	Nut, Hex (M6 x 1.0)
5	505-0091	1	Nipple, Pipe (1.0 x 7.0)	26	505-0004	2	* Nipple, Pipe (1.0 x 1.50)
6			Regulator	27	505-0304	1	* Tee, Pipe
	148-0601	1	Natural Gas	28	505-0802	1	* Bushing, Reducer (1.0 x 1/4)
	148-0636	1	LP Vapor	29	505-0007	1	* Bushing, Reducer (1/4 x 1/8)
7	505-0041	1	Elbow, Pipe	30	309-0669	1	* Switch, Low Pressure
8	505-1524	1	Nipple, Pipe (1.0 x 7.5)	31	338-3740-01	1	* Harness, Wiring – Fuel Alarm (Includes Relay)
9	505-0356	1	Elbow – 90°	32	307-2817-01	1	* Relay (12 Volt)
10	505-0337	1	Nipple, Pipe (3/4 x 4.0)	33	145-0796-02	1	Bracket, Fuel System
11	505-0132	1	Elbow, Pipe	34	800-2089	1	Screw, Cap – Hex Head (M10 x 1.5 x 40)
12	505-0102	1	Nipple, Pipe (3/4 x 1.38)	35	155-1256	1	Clamp, Muffler (1.50")
13	148-1090	1	Clamp, Fuel System	36	526-0174	1	Washer, Flat (3/8)
14	502-1299	1	Connector, Hose (1/8 x 3/16)	37	526-0393	2	Washer, Flat (M10)
15	502-1162	1	Connector, Hose (1/4 x 3/8)				
16	526-2100	4	Washer, Flat (M8)				
17	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)				
18	520-2407	2	Stud (M10 x 1.5 x 40)				
19	850-0114-55	2	Washer, Lock – Split (M10)				
20	860-2009	2	Nut, Hex (M10 x 1.5)				
21	821-6002-03	4	Screw, Hex Head (M6 x 1.0 x 16)				

* – Optional Parts

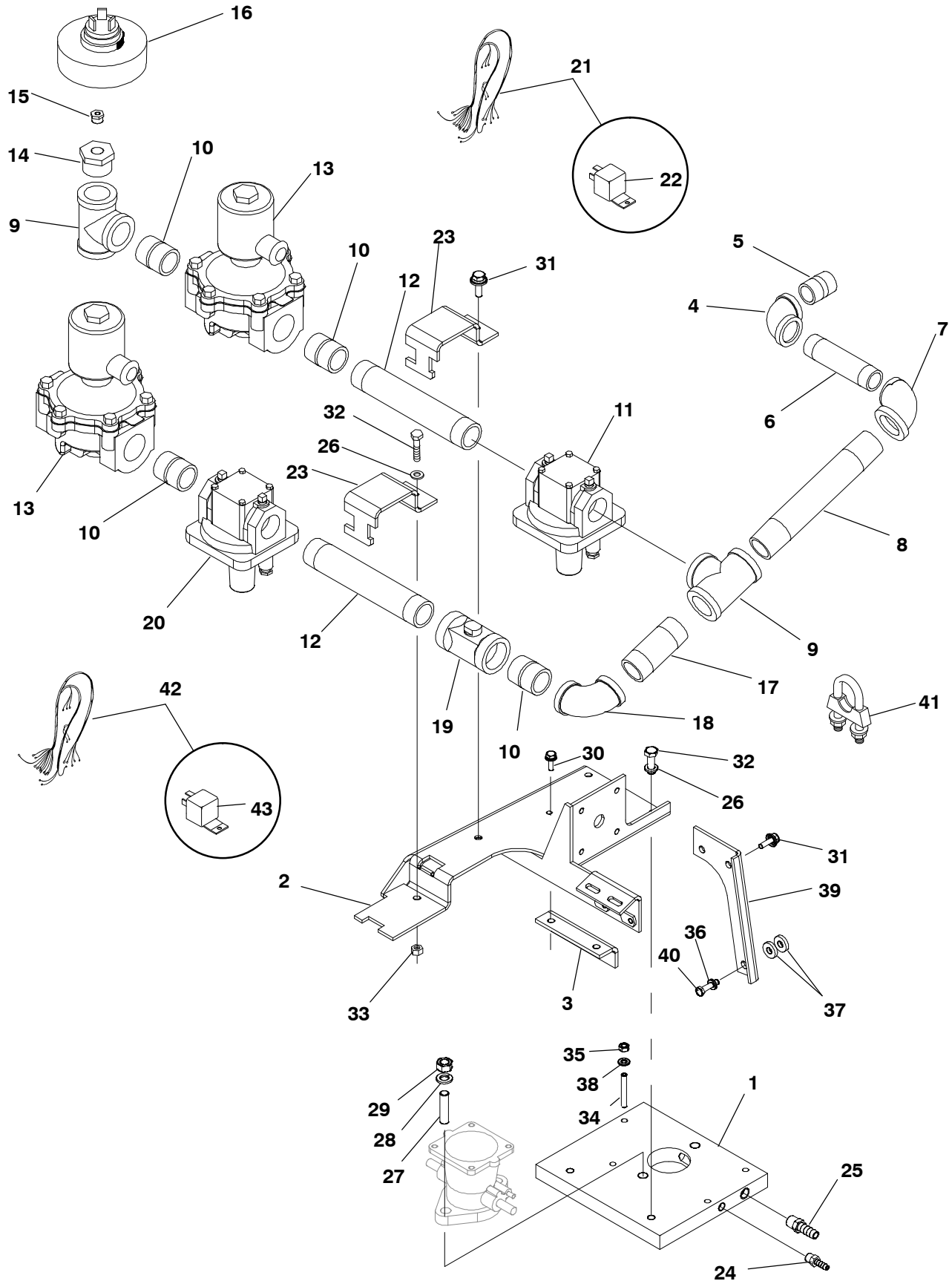
Fuel System
LP Liquid
Spec A-B



**Fuel System
LP Liquid
Spec A-B**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-0625	1	Convertor, Gas	27	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)
2	148-1152	1	Solenoid, Primer	28	520-2407	2	Stud (M10 x 1.5 x 40)
3	148-1248-02	1	Bracket, Convertor	29	860-2009	2	Nut, Hex (M10 x 1.5)
4	850-0114-55	2	Washer, Lock - Split (M10)	30	520-1024	4	Stud, Steel (M6 x 1.0 x 45)
5	505-0086	1	Nipple, Pipe (1.0 x 2.50)	31	526-2080	4	Washer, Flat (M6)
6	815-0924	2	Screw, Hex Washer Head (M6 x 1.0 x 40)	32	862-0026-54	4	Nut, Hex (M6 x 1.0)
7	505-0004	2	Nipple, Pipe (1.0 x 1.50)	33	503-1988	-	Hose - Bulk (Order by the Foot - 8 Feet Required)
8	505-0304	1	Tee, Pipe	34	332-2634	3	Clamp, J
9	505-0479	1	Cap, Pipe (1.00)	35	503-0183	4	Clamp, Hose
10	505-0041	1	Elbow, Pipe	36	502-1006	1	Fitting, Hose Barb
11	502-0942	2	Elbow, Hose - 90° (3/8 x 5/8 Hose)	37	505-0040	1	Elbow, Pipe
12	502-0054	1	Elbow, Pipe - Street	38	502-0827	1	Hose, Barb
13	501-0630	1	Hose	39	503-0191	-	Hose - Bulk (Order by the Foot - 1 Foot Required)
14	505-0099	1	Nipple, Pipe (1/4 x .88)	40	503-1872-01	2	Clamp, Hose
15	307-0268-01	1	Valve, Solenoid	41	526-0174	1	Washer, Flat (M10)
16	505-0356	1	Elbow - 90°	42	526-0393	2	Washer, Flat (M10)
17	505-0102	1	Nipple, Pipe (3/4 x 1.38)	43	860-2008	1	Nut, Hex (M8 x 1.25)
18	145-0781	1	Adapter, Carburetor	44	338-3654-01	1	Harness, LPG
19	151-0775-02	1	Bracket, Governor	45	800-2089	1	Screw, Cap - Hex Head (M10 x 1.5 x 40)
20	151-0776-02	1	Bracket, Governor - Fuel	46	800-2115	2	Screw, Cap - Hex Head (M12 x 1.75 x 45) - UC274 Generator
21	145-0796-02	1	Bracket, Fuel System	47	800-2099	2	Screw, Cap - Hex Head (M10 x 1.5 x 90) - UCD224 Generator
22	502-1162	1	Connector, Hose (1/4 x 3/8 Hose)	48	130-3660-02	2	Spacer, Shock Absorber - UCD224 Generator
23	502-1299	1	Connector, Hose (1/8 x 3/16 Hose)				
24	526-2100	3	Washer, Flat (M8)				
25	800-3017-20	3	Screw, Cap - Hex Head (M8 x 1.25 x 25)				
26	821-6002-03	5	Screw, Hex Head (M6 x 1.0 x 16)				

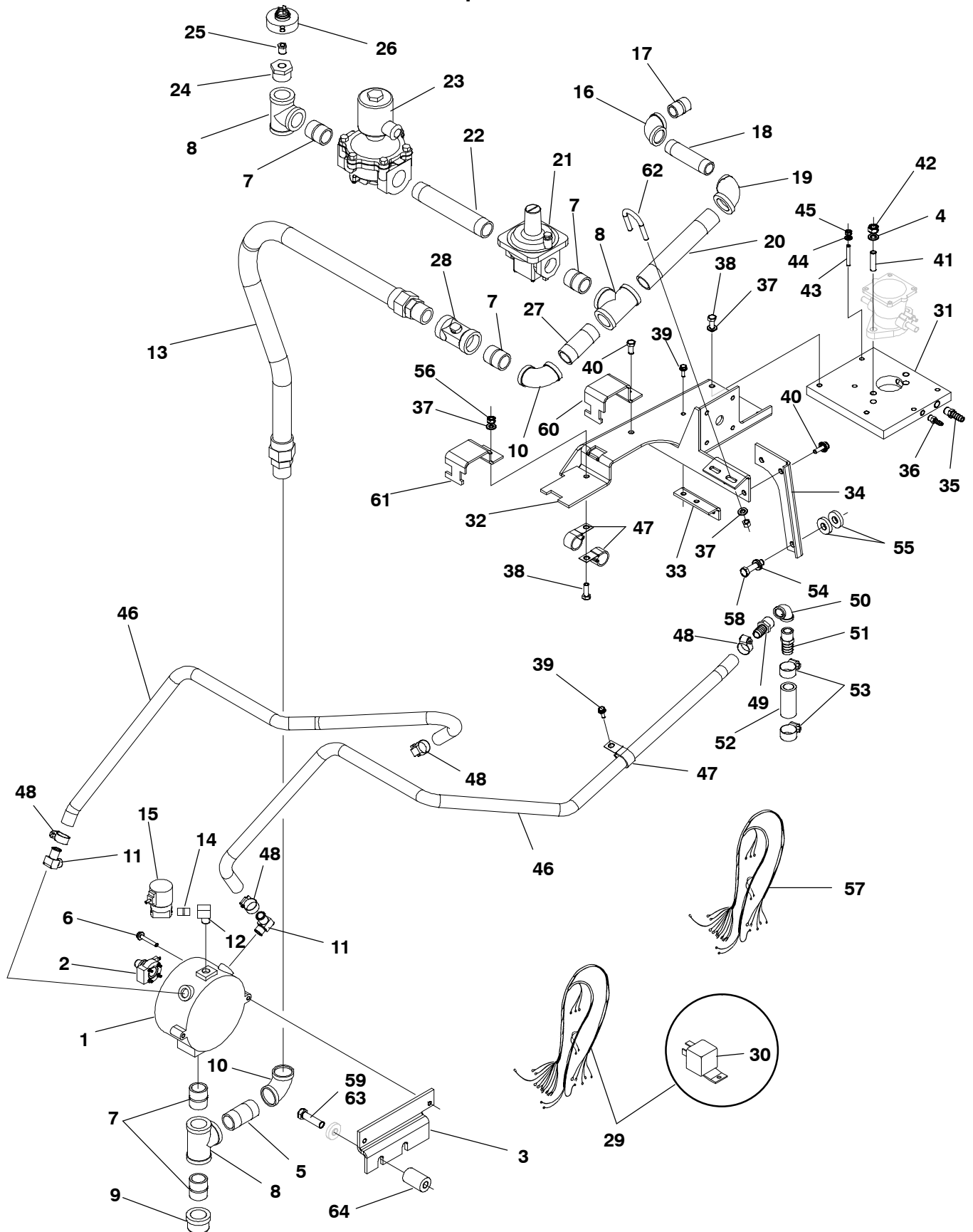
Fuel System **Dual Fuel Natural Gas / LP Vapor** **Spec A-B**



Fuel System
Dual Fuel Natural Gas / LP Vapor
Spec A-B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	145-0781	1	Adapter, Carburetor	25	502-1162	1	Connector, Hose (1/4 x 3/8)
2	151-0775-02	1	Bracket, Governor	26	526-2100	5	Washer, Flat (M8)
3	151-0776-02	1	Bracket, Governor – Fuel	27	520-2407	2	Stud (M10 x 1.5 x 40)
4	505-0132	1	Elbow, Pipe	28	850-0114-55	2	Washer, Lock – Split (M10)
5	505-0102	1	Nipple, Pipe (3/4 x 1.38)	29	860-2009	2	Nut, Hex (M10 x 1.5)
6	505-0337	1	Nipple, Pipe (3/4 x 4.0)	30	821-6002-03	4	Screw, Hex Head (M6 x 1.0 x 16)
7	505-0356	1	Elbow – 90°	31	821-6003-02	3	Screw, Hex Head (M8 x 1.25 x 20)
8	505-1524	1	Nipple, Pipe (1.0 x 7.5)	32	800-3017-20	3	Screw, Cap – Hex Head (M8 x 1.25 x 25)
9	505-0304	2	Tee, Pipe	33	860-2008	1	Nut, Hex (M8 x 1.25)
10	505-0004	4	Nipple, Pipe (1.0 x 1.50)	34	520-1024	4	Stud, Double Ended (M6 x 1.0 x 45)
11	148-0601		Regulator, Natural Gas	35	862-0026-54	4	Nut, Hex (M6 x 1.0)
12	505-0091	2	Nipple, Pipe (1.0 x 7.0)	36	526-0174	1	Washer, Flat (3/8)
13	307-2884	2	Valve, Solenoid	37	526-0393	2	Washer, Flat (M10)
14	505-0802	1	Bushing, Reducer (1.0 x 1/4)	38	526-2080	4	Washer, Flat (M6)
15	505-0007	1	Bushing, Reducer (1/4 x 1/8)	39	145-0796-02	1	Bracket, Fuel System
16	309-0669	1	Switch, Low Pressure	40	800-2089	1	Screw, Cap – Hex Head (M10 x 1.5 x 40)
17	505-0087	1	Nipple, Pipe (1.0 x 3.0)	41	155-1256	1	Clamp, Muffler (1.50")
18	505-0041	1	Elbow, Pipe	42	338-4037	1	Harness, Wiring – Fuel Alarm (Includes Relay)
19	148-0626	1	Valve, Load Adjusting	43	307-2817-01	1	Relay (12 Volt)
20	148-0636	1	Regulator, LP Vapor				
21	338-3816-01	1	Harness, Wiring – Dual Fuel (Includes Relay)				
22	307-2817-01	1	Relay (12 Volt)				
23	148-1090	2	Clamp, Fuel System				
24	502-1299	1	Connector, Hose (1/8 x 3/16)				

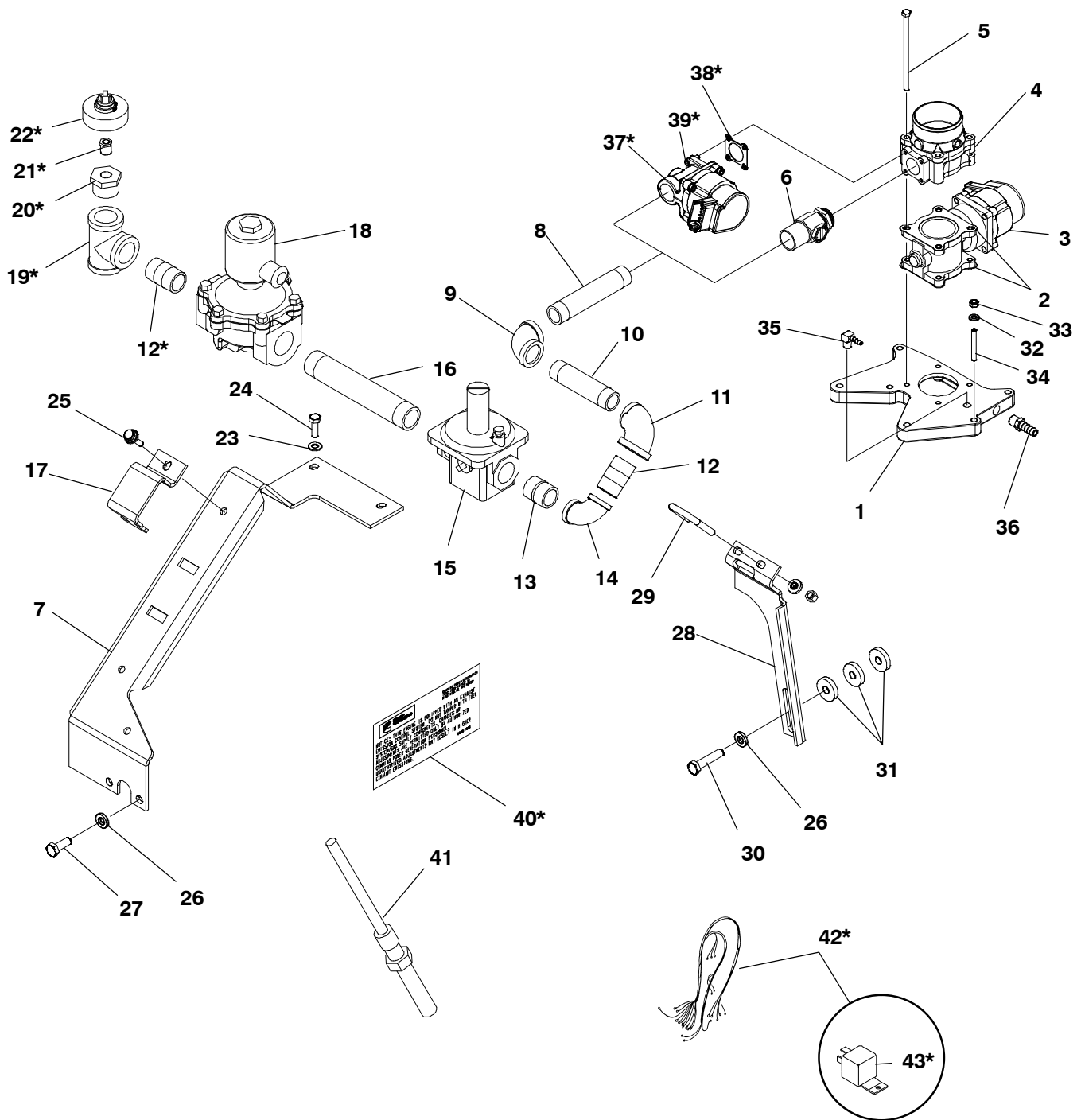
Fuel System **Dual Fuel Natural Gas / LP Liquid** **Spec A-B**



Fuel System
Dual Fuel Natural Gas / LP Liquid
Spec A-B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-0625	1	Converter, Gas	37	526-2100	5	Washer, Flat (M8)
2	148-1152	1	Solenoid, Primer	38	800-3017-20	3	Screw, Cap – Hex Head (M8 x 1.25 x 25)
3	148-1248-02	1	Bracket, Converter	39	821-6002-03	5	Screw, Hex Head (M6 x 1.0 x 16)
4	850-0114-55	2	Washer, Lock – Split (M10)	40	821-6003-02	3	Screw, Hex Head (M8 x 1.25 x 20)
5	505-0086	1	Nipple, Pipe (1.0 x 2.50)	41	520-2407	2	Stud (M10 x 1.5 x 40)
6	815-0924	2	Screw, Hex Washer Head (M6 x 1.0 x 40)	42	860-2009	2	Nut, Hex (M10 x 1.5)
7	505-0004	5	Nipple, Pipe (1 x 1.50)	43	520-1024	4	Stud, Steel (M6 x 1.0 x 45)
8	505-0304	3	Tee, Pipe	44	526-2080	4	Washer, Flat (M6)
9	505-0479	1	Cap, Pipe (1.00)	45	862-0026-54	4	Nut, Hex (M6 x 1.0)
10	505-0041	2	Elbow, Pipe	46	503-1988	–	Hose – Bulk (Order by the Foot – 8 Feet Required)
11	502-0942	2	Elbow, Hose – 90° (3/8 x 5/8 Hose)	47	332-2634	3	Clamp, J
12	502-0054	1	Elbow, Pipe – Street	48	503-0183	4	Clamp, Hose
13	501-0630	1	Hose	49	502-1006	1	Fitting, Hose Barb
14	505-0099	1	Nipple, Pipe (1/4 x .88)	50	505-0040	1	Elbow, Pipe
15	307-0268-01	1	Valve, Solenoid	51	502-0827	1	Hose, Barb
16	505-0132	1	Elbow, Pipe	52	503-0191	–	Hose – Bulk (Order by the Foot – 1 Foot Required)
17	505-0102	1	Nipple, Pipe (3/4 x 1.38)	53	503-1872-01	2	Clamp, Hose
18	505-0337	1	Nipple, Pipe (3/4 x 4.00)	54	526-0174	1	Washer, Flat (M10)
19	505-0356	1	Elbow – 90°	55	526-0393	2	Washer, Flat (M10)
20	505-1524	1	Nipple, Pipe (1.0 x 7.50)	56	860-2008	1	Nut, Hex (M8 x 1.25)
21	148-0601	1	Regulator, Natural Gas	57	338-3654-01	1	Harness, LPG
22	505-0091	1	Nipple, Pipe (1.0 x 7.00)	58	800-2089	1	Screw, Cap – Hex Head (M10 x 1.5 x 40)
23	307-2884	1	Valve, Solenoid	59	800-2115	2	Screw, Cap – Hex Head (M12 x 1.75 x 45) – UC274 Generator
24	505-0802	1	Bushing, Reducer (1.0 x 1/4)	60	148-1090	1	Clamp, Fuel System (1.00)
25	505-0007	1	Bushing, Reducer (1/4 x 1/8)	61	148-1089	1	Clamp, Fuel System (1.25)
26	309-0669	1	Switch, Low Pressure	62	155-1256	1	Clamp, Muffler (1.50)
27	505-0087	1	Nipple, Pipe (1.0 x 3.00)	63	800-2099	2	Screw, Cap – Hex Head (M10 x 1.5 x 90) – UCD224 Generator
28	148-0626	1	Valve, Load Adjusting	64	130-3660-02	2	Spacer, Shock Absorber – UCD224 Generator
29	338-3816-01	1	Harness, Wiring – Dual Fuel (Includes Relay)				
30	307-2817-01	1	Relay (12 Volt)				
31	145-0781	1	Adapter, Carburetor				
32	151-0775-02	1	Bracket, Governor				
33	151-0776-02	1	Bracket, Governor – Fuel				
34	145-0796-02	1	Bracket, Fuel System				
35	502-1162	1	Connector, Hose (1/4 x 3/8 Hose)				
36	502-1299	1	Connector, Hose (1/8 x 3/16 Hose)				

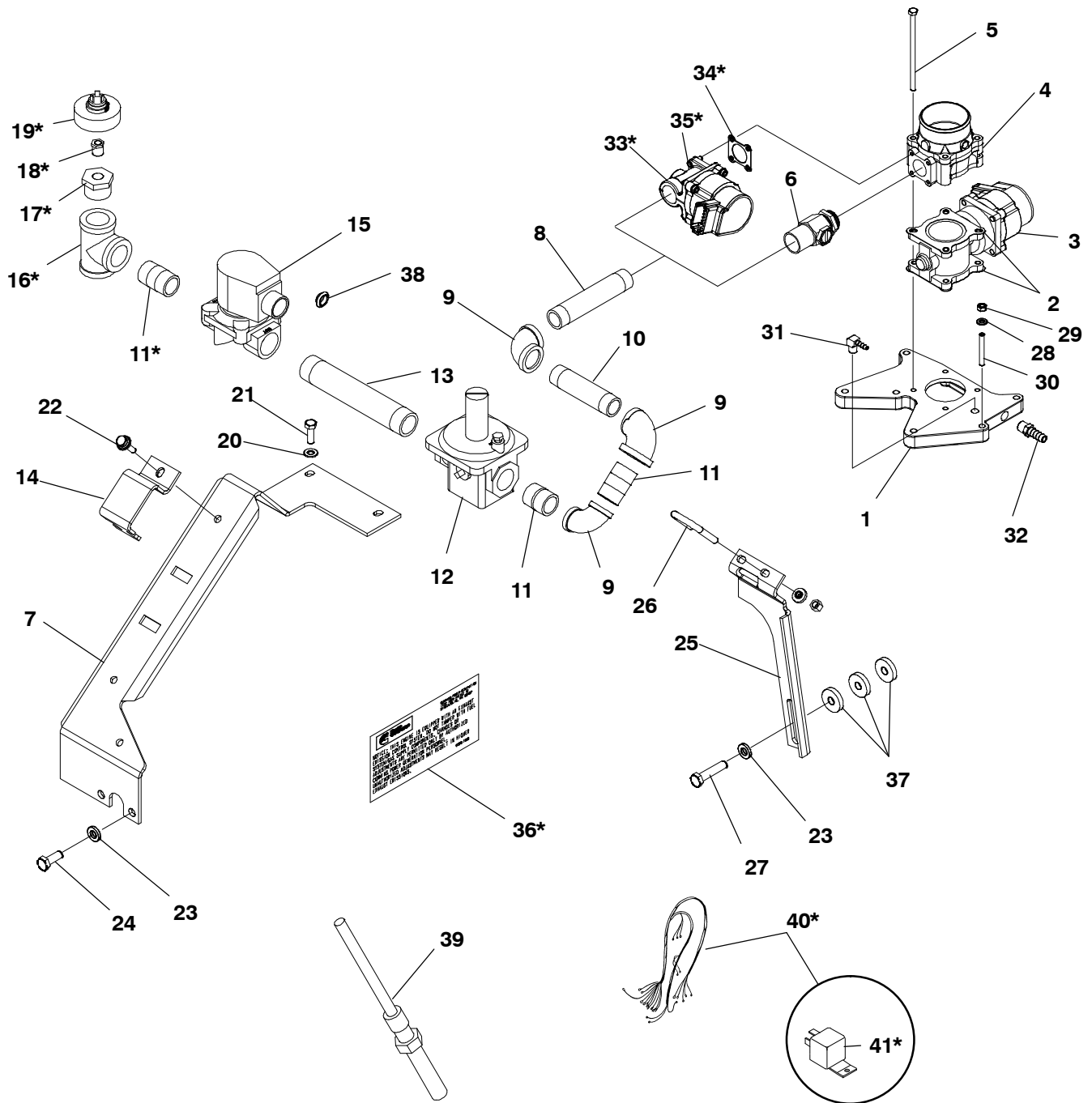
Base and Low Emission Fuel System Natural Gas Spec C



**Base and Low Emission Fuel System
Natural Gas
Spec C**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	24	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)
2	145-0813	2	Gasket, Throttle Body	25	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)
3	150-2762-01	1	Governor	26	526-0174	3	Washer, Flat (3.4)
4	148-1200-02	1	Mixer, ITB	27	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
5	815-1536	4	Screw, Cap – Hex Head (M6 x 1 x 110)	28	148-1247-02	1	Bracket, Fuel System
6	504-0210	1	Valve, Fuel – Without Low Emissions	29	155-1256	1	Clamp, Muffler
7	148-1164-02	1	Bracket, Fuel System – Mounting	30	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
8	505-0341	1	Nipple, Pipe (3/4 x 5.00)	31	526-0077	3	Washer, Flat (M10)
9	505-0132	1	Elbow, Pipe	32	526-2080	4	Washer, Flat (M6)
10	505-0337	1	Nipple, Pipe (3/4 x 4.00)	33	862-0026-54	4	Nut, Hex (M6)
11	505-0356	1	Elbow – 90°	34	520-1024	4	Stud (M6)
12	505-0107	1	Nipple, Pipe (1 x 2.00) Without Low Pressure Switch	35	502-1423	1	Elbow, Hose (1/8)
	505-0107	2	With Low Pressure Switch	36	502-1162	1	Fitting, Barbed Hose
13	505-0004	1	Nipple, Pipe (1 x 1.50)	37	300-5530-02	1	* Control, Fuel – With Low Emission
14	505-0041	1	Elbow, Pipe	38	148-1241	1	* Gasket, Mixer – With Low Emission
15	148-1202	1	Regulator	39	802-2537	4	* Screw, Cap – Socket Head – With Low Emission
16	505-0091	1	Nipple, Pipe (1 x 7.00)	40	098-7966	1	* Label, Emissions – With Low Emission
17	148-1090	1	Clamp, Fuel System	41	150-2651	1	Pick-Up, Magnetic
18	307-2884	1	Valve, Solenoid	42	338-3740-01	1	* Harness, Wiring – Fuel Alarm (Includes Relay)
19	505-0304	1	* Tee, Pipe – With Low Pressure Switch	43	307-2817-01	1	* Relay (12 Volt)
20	505-0802	1	* Bushing, Reducer (1 x 1/4) – With Low Pressure Switch				
21	505-0007	1	* Bushing, Reducer (1/4 x 1/8) – With Low Pressure Switch				
22	309-0669-01	1	* Switch, Low Pressure				
23	526-2100	2	Washer, Flat (M8)				
							* – Optional Parts

Base and Low Emission Fuel System LP Vapor Spec C

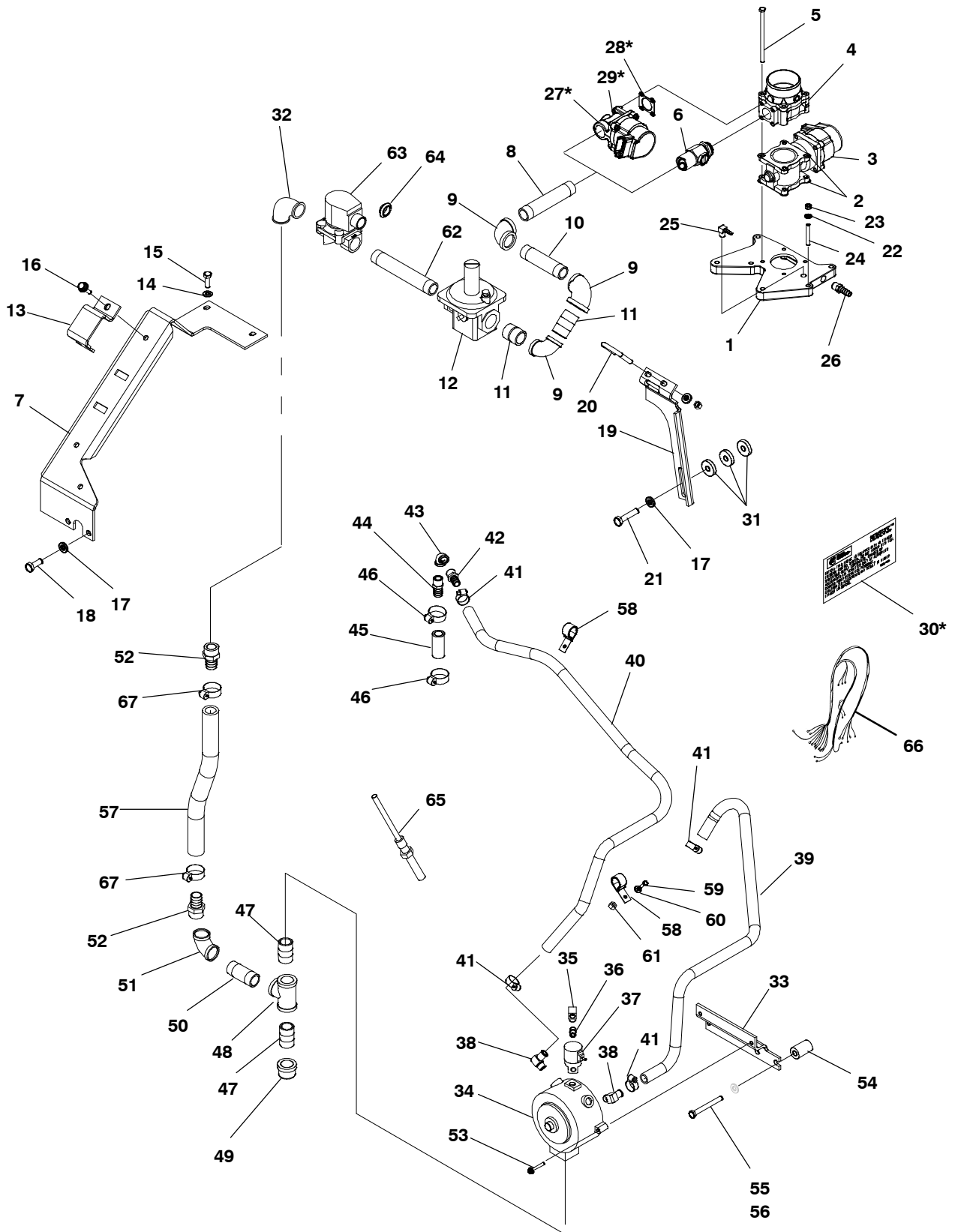


**Base and Low Emission Fuel System
LP Vapor
Spec C**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	21	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)
2	145-0813	2	Gasket, Throttle Body	22	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)
3	150-2762-01	1	Governor	23	526-0174	3	Washer, Flat (3.4)
4	148-1200-02	1	Mixer, ITB	24	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
5	815-1536	4	Screw, Cap – Hex Head (M6 x 1 x 110)	25	148-1247-02	1	Bracket, Fuel System
6	504-0210	1	Valve, Fuel – Without Low Emissions	26	155-1256	1	Clamp, Muffler
7	148-1164-02	1	Bracket, Fuel System – Mounting	27	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
8	505-0341	1	Nipple, Pipe (3/4 x 5.00)	28	526-2080	4	Washer, Flat (M6)
9	505-0132	3	Elbow, Pipe	29	862-0026-54	4	Nut, Hex (M6)
10	505-0337	1	Nipple, Pipe (3/4 x 4.00)	30	520-1024	4	Stud (M6)
11			Nipple, Pipe (3/4 x 2.00)	31	502-1423	1	Elbow, Hose (1/8)
	505-0085	2	Without Low Pressure Switch	32	502-1162	1	Fitting, Barbed Hose
	505-0085	3	With Low Pressure Switch	33	300-5530-02	1	* Control, Fuel – With Low Emission
12	148-1231	1	Regulator	34	148-1241	1	* Gasket, Mixer – With Low Emission
13	505-0754	1	Nipple, Pipe (3/4 x 6.00)	35	802-2537	4	* Screw, Cap – Socket Head – With Low Emission
14	148-1234-02	1	Clamp, Fuel System	36	098-7966	1	* Label, Emissions – With Low Emission
15	307-2930	1	Valve, Solenoid	37	526-0393	3	Washer, Flat (M10)
16			* Tee, Pipe – With Low Pressure Switch	38	508-1158	1	Grommet
	505-0166	1	Without Low Emission	39	150-2651	1	Pick-Up, Magnetic
	505-0661	1	With Low Emission	40	338-3740-01	1	* Harness, Wiring – Fuel Alarm (Includes Relay)
17			* Bushing, Reducer – With Low Pressure Switch	41	307-2817-01	1	* Relay (12 Volt)
	505-0020	1	Without Low Emission				
	505-0802	1	With Low Emission				
18	505-0007	1	* Bushing, Reducer (1/4 x 1/8) – With Low Pressure Switch				
19	309-0669-01	1	* Switch, Low Pressure				
20	526-2100	2	Washer, Flat (M8)				

* – Optional Parts

Base and Low Emission Fuel System LP Liquid Spec C

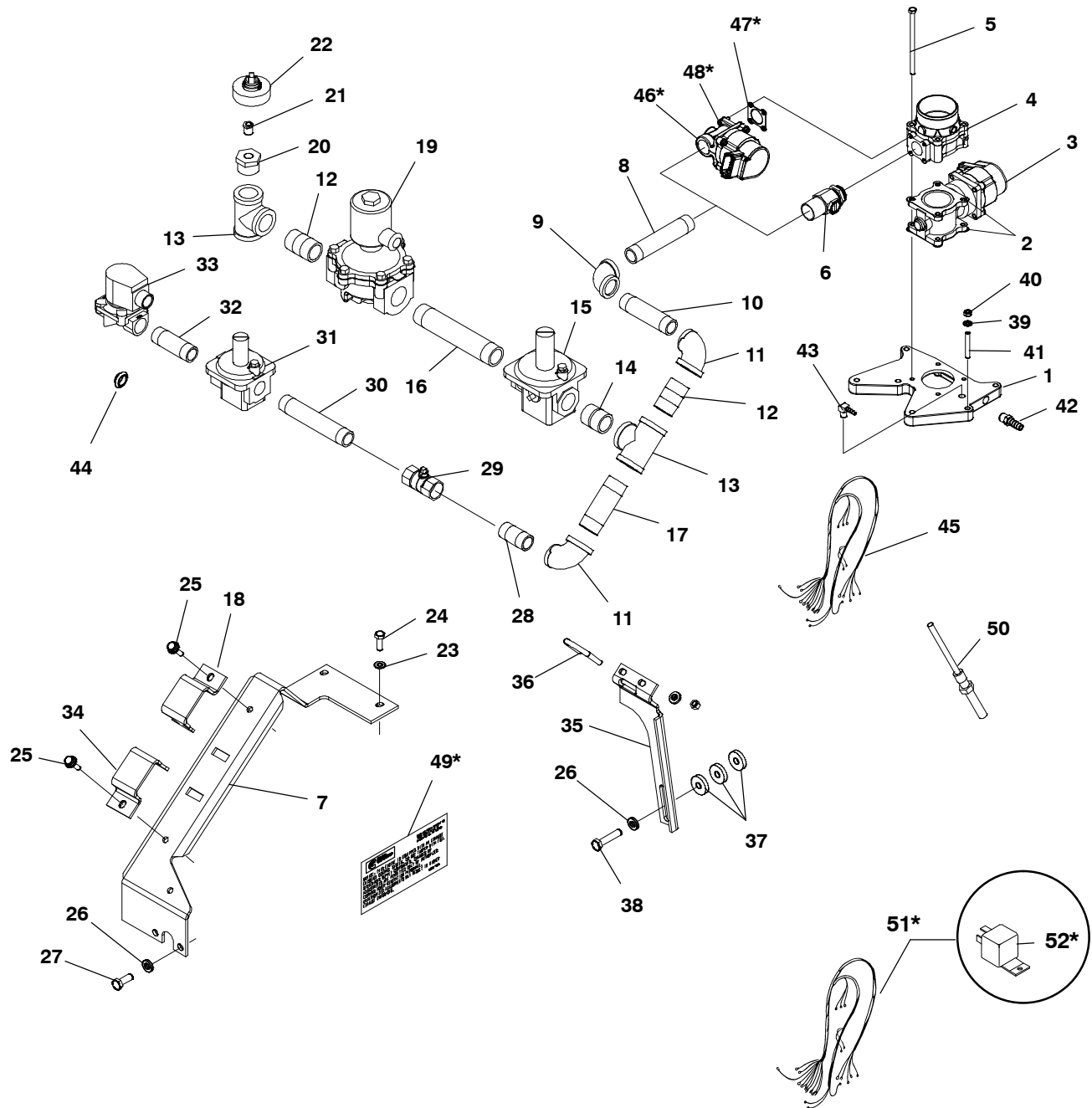


**Base and Low Emission Fuel System
LP Liquid
Spec C**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	34	148-1240	1	Converter
2	145-0813	2	Gasket, Throttle Body	35	502-0054	1	Elbow, Street Pipe
3	150-2762-01	1	Governor	36	505-0099	1	Nipple, Pipe (1/4 x .88)
4	148-1200-02	1	Mixer, ITB	37	307-0268-01	1	Valve, Solenoid
5	815-1536	4	Screw, Cap – Hex Head (M6 x 1 x 110)	38	502-0942	2	Elbow, 90° Hose
6	504-0210	1	Valve, Fuel – Without Low Emissions	39	503-2293-04	1	Hose, Coolant
7	148-1164-02	1	Bracket, Fuel System – Mounting	40	503-2293-05	1	Hose, Coolant
8	505-0341	1	Nipple, Pipe (3/4 x 5.00)	41	503-0183	4	Clamp, Hose
9	505-0132	3	Elbow, Pipe	42	502-1006	1	Connector, Hose (1/2 x 5/8)
10	505-0337	1	Nipple, Pipe (3/4 x 4.00)	43	505-0040	1	Elbow, Pipe
11	505-0085	3	Nipple, Pipe (3/4 x 2.00)	44	502-0827	1	Hose, Barb
12	148-1231	1	Regulator	45	503-0191	–	Hose, Water – Bulk (Order by the Foot – 1 Foot Required)
13	148-1234-02	1	Clamp, Fuel System	46	503-1870-01	2	Clamp, Hose
14	526-2100	2	Washer, Flat (M8)	47	505-0107	2	Nipple, Pipe (1 x 2.00)
15	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	48	505-0304	1	Tee, Pipe
16	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)	49	505-0479	1	Cap, Pipe
17	526-0174	3	Washer, Flat (3.4)	50	505-0087	1	Nipple, Pipe (1 x 3.00)
18	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	51	505-0041	1	Elbow, Pipe
19	148-1247-02	1	Bracket, Fuel System	52	502-1110-01	2	Connector, Hose
20	155-1256	1	Clamp, Muffler	53	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
21	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)	54	130-3660-02	2	Spacer, Shock Absorber – UCD224 Generator
22	526-2080	4	Washer, Flat (M6)	55	800-2099	2	Screw, Cap – Hex Head (M10 x 1.5 x 90) – UCD224 Generator
23	862-0026-54	4	Nut, Hex (M6)	56	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45) – UC274 Generator
24	520-1024	4	Stud (M6)	57	503-2353-01	1	Hose, Fuel
25	502-1423	1	Elbow, Hose (1/8)	58	332-3196	3	Clamp, J
26	502-1162	1	Fitting, Barbed Hose	59	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
27	300-5530-02	1	* Control, Fuel – With Low Emission	60	526-0018	1	Washer, Flat (1/4)
28	148-1241	1	* Gasket, Mixer – With Low Emission	61	860-2007	1	Nut, Hex (M6 x 1)
29	802-2537	4	* Screw, Cap – Socket Head – With Low Emission	62	505-0754	1	Nipple, Pipe (3/4 x 6.00)
30	098-7966	1	* Label, Emissions – With Low Emission	63	307-2930	1	Valve, Solenoid
31	526-0393	3	Washer, Flat (M10)	64	508-1158	1	Grommet
32	505-0356	1	Elbow – 90°	65	150-2651	1	Pick-Up, Magnetic
33	148-1248-02	1	Bracket, Converter	66	338-4115	1	Harness, Jumper
				67	503-2157-02	2	Clamp, Hose

* – Optional Parts

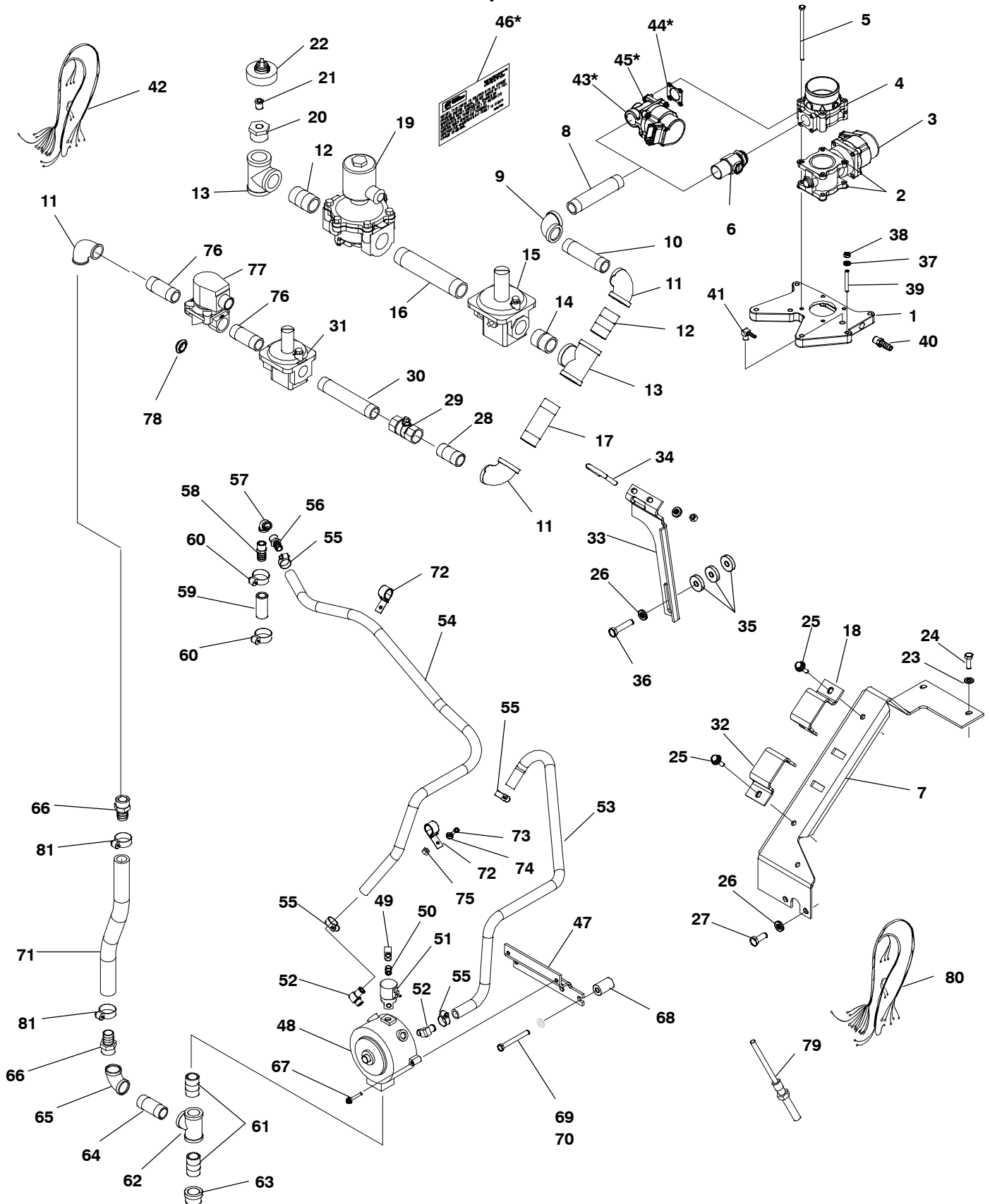
**Base and Low Emission Dual Fuel System With Automatic Changeover
Natural Gas / LP Vapor
Spec C**



Base and Low Emission Dual Fuel System With Automatic Changeover
Natural Gas / LP Vapor
Spec C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	29	504-0171	1	Valve – Without Low Emission
2	145-0813	2	Gasket, Throttle Body	30	505-0165	1	Nipple, Pipe (3/4 x 5.50) – Without Low Emission
3	150-2762-01	1	Governor	31	148-1231	1	Regulator – LP Vapor
4	148-1200-02	1	Mixer, ITB	32			Nipple, Pipe
5	815-1536	4	Screw, Cap – Hex Head (M6 x 1 x 110)		505-0085	1	Without Low Emission (3/4 x 2.00)
6	504-0210	1	Valve, Fuel – Without Low Emission		505-0754	1	With Low Emission (3/4 x 6.00)
7	148-1164-02	1	Bracket, Fuel System – Mounting	33	307-2930	1	Valve, Solenoid
8	505-0341	1	Nipple, Pipe (3/4 x 5.00)	34	148-1234-02	1	Clamp, Fuel System
9	505-0132	1	Elbow, Pipe	35	148-1247-02	1	Bracket, Fuel System
10	505-0337	1	Nipple, Pipe (3/4 x 4.00)	36	155-1256	1	Clamp, Muffler
11	505-0356	2	Elbow – 90°	37	526-0077	3	Washer, Flat (M10)
12	505-0107	2	Nipple, Pipe (1 x 2.00)	38	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
13	505-0304	2	Tee, Pipe	39	526-2080	4	Washer, Flat (M6)
14	505-0004	1	Nipple, Pipe (1 x 1.50)	40	862-0026-54	4	Nut, Hex (M6)
15	148-1202	1	Regulator – Natural Gas	41	520-1024	4	Stud (M6)
16	505-0492	1	Nipple, Pipe (1 x 6.50)	42	502-1162	1	Fitting, Barbed Hose
17	505-0147	1	Nipple, Pipe (1 x 3.50)	43	502-1423	1	Elbow, Hose (1/8)
18	148-1090	1	Clamp, Fuel System	44	508-1158	1	Grommet
19	307-2884	1	Valve, Solenoid	45	338-3816-01	1	Harness, Dual Fuel
20	505-0802	1	Bushing, Reducer (1 x 1/4)	46	300-5530-02	1	* Control, Fuel – With Low Emission
21	505-0007	1	Bushing, Reducer (1/4 x 1/8)	47	148-1241	1	* Gasket, Mixer – With Low Emission
22	309-0669-01	1	Switch, Low Pressure	48	802-2537	4	* Screw, Cap – Socket Head – With Low Emission
23	526-2100	2	Washer, Flat (M8)	49	098-7966	1	* Label, Emissions – With Low Emission
24	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	50	150-2651	1	Pick-Up, Magnetic
25	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)	51	338-4037	1	* Harness, Wiring – Fuel Alarm (Includes Relay)
26	526-0174	3	Washer, Flat (3.4)	52	307-2817-01	1	* Relay (12 Volt)
27	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)				
28			Nipple, Pipe				
	505-0332	1	Without Low Emission – (3/4 x 3.00)				
	505-0085	1	With Low Emission – (3/4 x 2.00)				

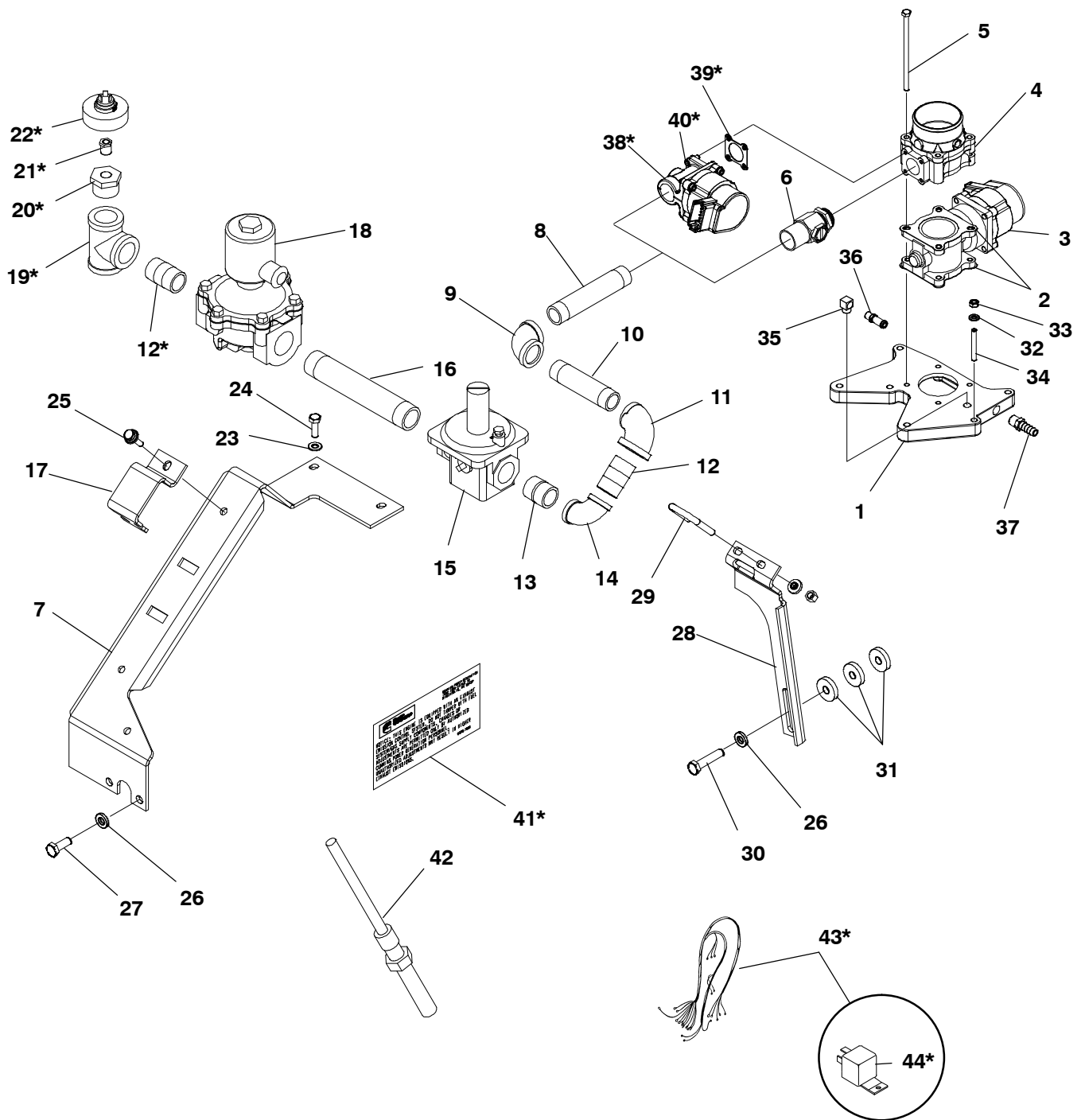
**Base and Low Emission Fuel System With Automatic Changeover
Natural Gas / LP Liquid
Spec C**



Base and Low Emission Fuel System With Automatic Changeover
Natural Gas / LP Liquid
Spec C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	43	300-5530-02	1	* Control, Fuel – With Low Emission
2	145-0813	2	Gasket, Throttle Body	44	148-1241	1	* Gasket, Mixer – With Low Emission
3	150-2762-01	1	Governor	45	802-2537	4	* Screw, Cap – Socket Head – With Low Emission
4	148-1200-02	1	Mixer, ITB	46	098-7966	1	* Label, Emissions – With Low Emission
5	815-1536	4	Screw, Cap – Hex Head (M6 x 1 x 110)	47	148-1248-02	1	Bracket, Converter
6	504-0210	1	Valve, Fuel – Without Low Emission	48	148-1240	1	Converter
7	148-1164-02	1	Bracket, Fuel System – Mounting	49	502-0054	1	Elbow, Street Pipe
8	505-0341	1	Nipple, Pipe (3/4 x 5.00)	50	505-0099	1	Nipple, Pipe (1/4 x .88)
9	505-0132	1	Elbow, Pipe	51	307-0268-01	1	Valve, Solenoid
10	505-0337	1	Nipple, Pipe (3/4 x 4.00)	52	502-0942	2	Elbow, 90° Hose
11	505-0356	3	Elbow – 90°	53	503-2293-04	1	Hose, Coolant
12	505-0107	2	Nipple, Pipe (1 x 2.00)	54	503-2293-05	1	Hose, Coolant
13	505-0304	2	Tee, Pipe	55	503-0183	4	Clamp, Hose
14	505-0004	1	Nipple, Pipe (1 x 1.50)	56	502-1006	1	Connector, Hose (1/2 x 5/8)
15	148-1202	1	Regulator	57	505-0040	1	Elbow, Pipe
16	505-0492	1	Nipple, Pipe (1 x 6.50)	58	502-0827	1	Hose, Barb
17	505-0147	1	Nipple, Pipe (1 x 3.50)	59	503-0191	–	Hose, Water – Bulk (Order by the Foot – 1 Foot Required)
18	148-1090	1	Clamp, Fuel System	60	503-1870-01	2	Clamp, Hose
19	307-2884	1	Valve, Solenoid	61	505-0107	2	Nipple, Pipe (1 x 2.00)
20	505-0802	1	Bushing, Reducer (1 x 1/4)	62	505-0304	1	Tee, Pipe
21	505-0007	1	Bushing, Reducer (1/4 x 1/8)	63	505-0479	1	Cap, Pipe
22	309-0669-01	1	Switch, Low Pressure	64	505-0087	1	Nipple, Pipe (1 x 3.00)
23	526-2100	2	Washer, Flat (M8)	65	505-0041	1	Elbow, Pipe
24	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	66	502-1110-01	2	Connector, Hose
25	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)	67	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
26	526-0174	3	Washer, Flat (3.4)	68	130-3660-02	2	Spacer, Shock Absorber – UCD224 Generator
27	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	69	800-2099	2	Screw, Cap – Hex Head (M10 x 1.5 x 90) – UCD224 Generator
28			Nipple, Pipe	70	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45) – UC274 Generator
	505-0332	1	Without Low Emission – (3/4 x 3.00)	71	503-2353-02	1	Hose, Fuel
	505-0085	1	With Low Emission – (3/4 x 3.00)	72	332-3196	3	Clamp, J
29	504-0171	1	Valve – Without Low Emission	73	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
30	505-0165	1	Nipple, Pipe (3/4 x 5.50) – Without Low Emission	74	526-0018	1	Washer, Flat (1/4)
31	148-1231	1	Regulator	75	860-2007	1	Nut, Hex (M6 x 1)
32	148-1234-02	1	Clamp, Fuel System	76			Nipple, Pipe
33	148-1247-02	1	Bracket, Fuel System		505-0085	2	Without Low Emission (3/4 x 2.00)
34	155-1256	1	Clamp, Muffler		505-0754	1	With Low Emission (3/4 x 6.00)
35	526-0077	3	Washer, Flat (M10)	77	307-2886	1	Valve, Solenoid
36	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)	78	505-1158	1	Grommet
37	526-2080	4	Washer, Flat (M6)	79	150-2651	1	Pick-Up, Magnetic
38	862-0026-54	4	Nut, Hex (M6)	80	338-4115	1	Harness, Jumper
39	520-1024	4	Stud (M6)	81	503-2157-02	2	Clamp, Hose
40	502-1162	1	Fitting, Barbed Hose				
41	502-1423	1	Elbow, Hose (1/8)				
42	338-3816-01	1	Harness, Dual Fuel				

Base and Low Emission Fuel System **Natural Gas** **Begin Spec D**

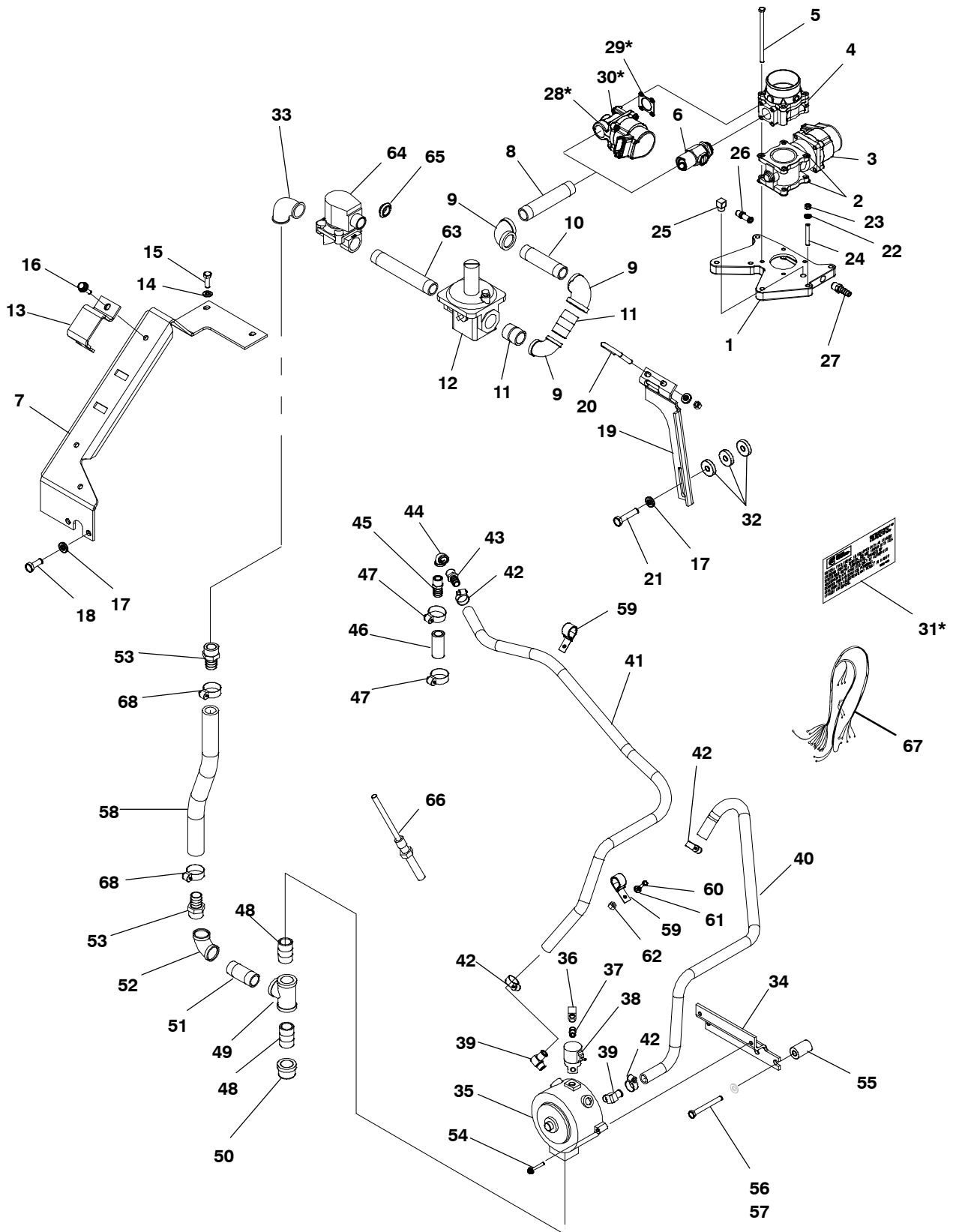


**Base and Low Emission Fuel System
Natural Gas
Begin Spec D**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	25	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)
2	145-0813	2	Gasket, Throttle Body	26	526-0174	3	Washer, Flat (3.4)
3	150-2762-01	1	Governor	27	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
4	148-1200-02	1	Mixer, ITB	28	148-1247-02	1	Bracket, Fuel System
5	815-1536	4	Screw, Cap – Hex Head (M6 x 1 x 110)	29	155-1256	1	Clamp, Muffler
6	504-0210	1	Valve, Fuel – Without Low Emissions	30	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
7	148-1164-02	1	Bracket, Fuel System – Mounting	31	526-0077	3	Washer, Flat (M10)
8	505-0341	1	Nipple, Pipe (3/4 x 5.00)	32	526-2080	4	Washer, Flat (M6)
9	505-0132	1	Elbow, Pipe	33	862-0026-54	4	Nut, Hex (M6)
10	505-0337	1	Nipple, Pipe (3/4 x 4.00)	34	520-1024	4	Stud (M6)
11	505-0356	1	Elbow – 90°	35	502-0020-01	1	Elbow, Pipe – Street – 90° (1/8)
12	505-0107	1	Nipple, Pipe (1 x 2.00) Without Low Pressure Switch	36	502-0432	1	Connector, Hose
	505-0107	2	With Low Pressure Switch	37	502-1162	1	Fitting, Barbed Hose
13	505-0004	1	Nipple, Pipe (1 x 1.50)	38	300-5530-02	1	* Control, Fuel – With Low Emission
14	505-0041	1	Elbow, Pipe	39	148-1241	1	* Gasket, Mixer – With Low Emission
15	148-1202	1	Regulator	40	802-2537	4	* Screw, Cap – Socket Head – With Low Emission
16	505-0091	1	Nipple, Pipe (1 x 7.00)	41	098-7966	1	* Label, Emissions – With Low Emission
17	148-1090	1	Clamp, Fuel System	42	150-2651	1	Pick-Up, Magnetic
18	307-2884	1	Valve, Solenoid	43	338-3740-01	1	* Harness, Wiring – Fuel Alarm (Includes Relay)
19	505-0304	1	* Tee, Pipe – With Low Pressure Switch	44	307-2817-01	1	* Relay (12 Volt)
20	505-0802	1	* Bushing, Reducer (1 x 1/4) – With Low Pressure Switch				
21	505-0007	1	* Bushing, Reducer (1/4 x 1/8) – With Low Pressure Switch				
22	309-0669-01	1	* Switch, Low Pressure				
23	526-2100	2	Washer, Flat (M8)				
24	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)				

* – Optional Parts

Base and Low Emission Fuel System LP Liquid Begin Spec D

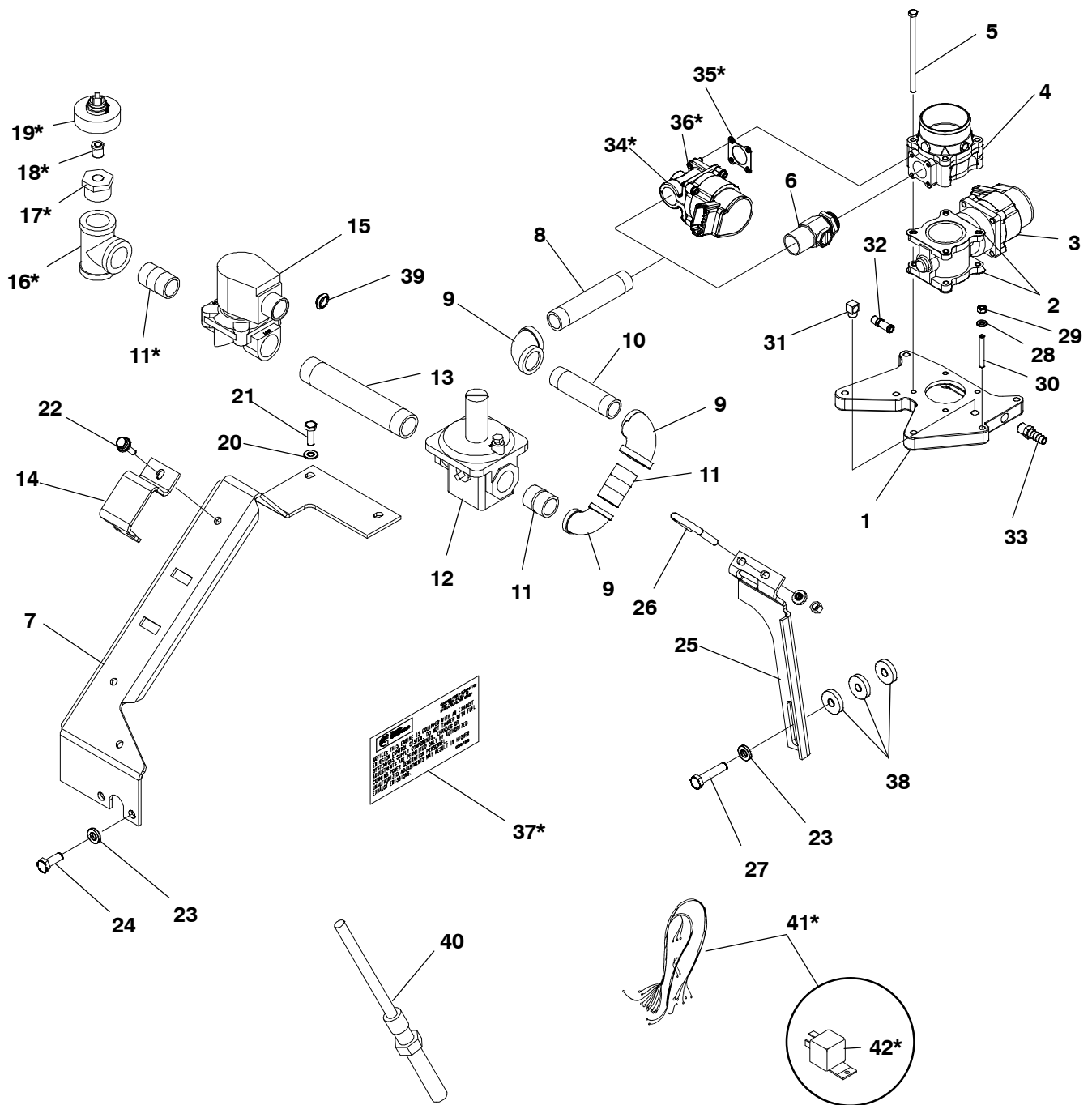


**Base and Low Emission Fuel System
LP Liquid
Begin Spec D**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	35	148-1240	1	Converter
2	145-0813	2	Gasket, Throttle Body	36	502-0054	1	Elbow, Street Pipe
3	150-2762-01	1	Governor	37	505-0099	1	Nipple, Pipe (1/4 x .88)
4	148-1200-02	1	Mixer, ITB	38	307-0268-01	1	Valve, Solenoid
5	815-1536	4	Screw, Cap – Hex Head (M6 x 1 x 110)	39	502-0942	2	Elbow, 90° Hose
6	504-0210	1	Valve, Fuel – Without Low Emissions	40	503-2293-04	1	Hose, Coolant
7	148-1164-02	1	Bracket, Fuel System – Mounting	41	503-2293-05	1	Hose, Coolant
8	505-0341	1	Nipple, Pipe (3/4 x 5.00)	42	503-0183	4	Clamp, Hose
9	505-0132	3	Elbow, Pipe	43	502-1006	1	Connector, Hose (1/2 x 5/8)
10	505-0337	1	Nipple, Pipe (3/4 x 4.00)	44	505-0040	1	Elbow, Pipe
11	505-0085	3	Nipple, Pipe (3/4 x 2.00)	45	502-0827	1	Hose, Barb
12	148-1231	1	Regulator	46	503-0191	–	Hose, Water – Bulk (Order by the Foot – 1 Foot Required)
13	148-1234-02	1	Clamp, Fuel System	47	503-1870-01	2	Clamp, Hose
14	526-2100	2	Washer, Flat (M8)	48	505-0107	2	Nipple, Pipe (1 x 2.00)
15	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	49	505-0304	1	Tee, Pipe
16	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)	50	505-0479	1	Cap, Pipe
17	526-0174	3	Washer, Flat (3.4)	51	505-0087	1	Nipple, Pipe (1 x 3.00)
18	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	52	505-0041	1	Elbow, Pipe
19	148-1247-02	1	Bracket, Fuel System	53	502-1110-01	2	Connector, Hose
20	155-1256	1	Clamp, Muffler	54	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
21	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)	55	130-3660-02	2	Spacer, Shock Absorber – UCD224 Generator
22	526-2080	4	Washer, Flat (M6)	56	800-2099	2	Screw, Cap – Hex Head (M10 x 1.5 x 90) – UCD224 Generator
23	862-0026-54	4	Nut, Hex (M6)	57	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45) – UC274 Generator
24	520-1024	4	Stud (M6)	58	503-2353-01	1	Hose, Fuel
25	502-0020-01	1	Elbow, Pipe – Street (1/8)	59	332-3196	3	Clamp, J
26	502-0432	1	Connector, Hose	60	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
27	502-1162	1	Fitting, Barbed Hose	61	526-0018	1	Washer, Flat (1/4)
28	300-5530-02	1	* Control, Fuel – With Low Emission	62	860-2007	1	Nut, Hex (M6 x 1)
29	148-1241	1	* Gasket, Mixer – With Low Emission	63	505-0754	1	Nipple, Pipe (3/4 x 6.00)
30	802-2537	4	* Screw, Cap – Socket Head – With Low Emission	64	307-2930	1	Valve, Solenoid
31	098-7966	1	* Label, Emissions – With Low Emission	65	508-1158	1	Grommet
32	526-0393	3	Washer, Flat (M10)	66	150-2651	1	Pick-Up, Magnetic
33	505-0356	1	Elbow – 90°	67	338-4115	1	Harness, Jumper
34	148-1248-02	1	Bracket, Converter	68	503-2157-02	2	Clamp, Hose

* – Optional Parts

**Base and Low Emission Fuel System
LP Vapor
Begin Spec D**

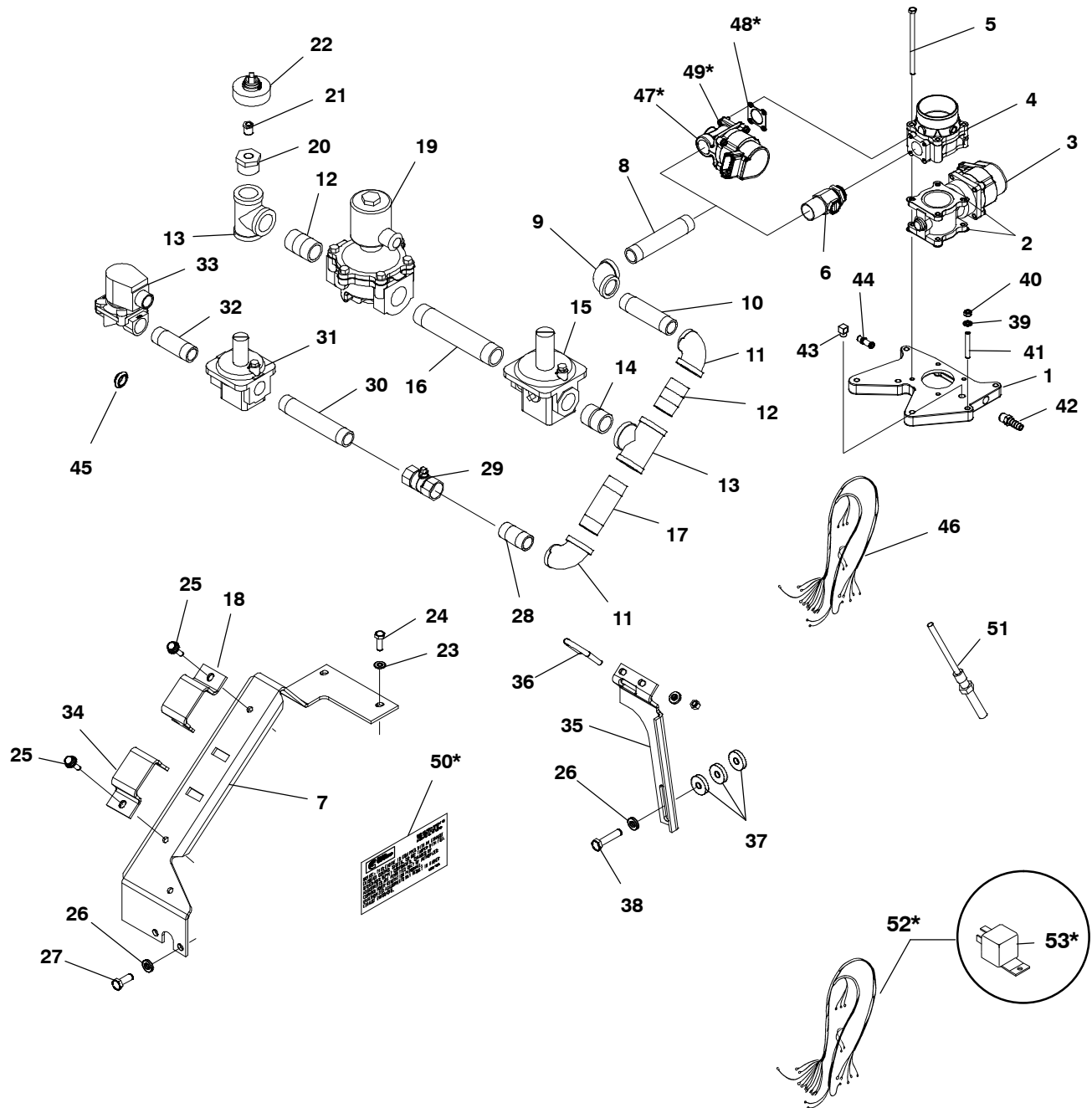


**Base and Low Emission Fuel System
LP Vapor
Begin Spec D**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	22	821-6003-03	1	Screw, Hex Head (M8 x 1.25 x 25)
2	145-0813	2	Gasket, Throttle Body	23	526-0174	3	Washer, Flat (3.4)
3	150-2762-01	1	Governor	24	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
4	148-1200-02	1	Mixer, ITB	25	148-1247-02	1	Bracket, Fuel System
5	815-1536	4	Screw, Cap – Hex Head (M6 x 1 x 110)	26	155-1256	1	Clamp, Muffler
6	504-0210	1	Valve, Fuel – Without Low Emissions	27	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
7	148-1164-02	1	Bracket, Fuel System – Mounting	28	526-2080	4	Washer, Flat (M6)
8	505-0341	1	Nipple, Pipe (3/4 x 5.00)	29	862-0026-54	4	Nut, Hex (M6)
9	505-0132	3	Elbow, Pipe	30	520-1024	4	Stud (M6)
10	505-0337	1	Nipple, Pipe (3/4 x 4.00)	31	502-0020-01	1	Elbow, Pipe – Street (1/8)
11			Nipple, Pipe (3/4 x 2.00)	32	502-0432	1	Connector, Hose
	505-0085	2	Without Low Pressure Switch	33	502-1162	1	Fitting, Barbed Hose
	505-0085	3	With Low Pressure Switch	34	300-5530-02	1	* Control, Fuel – With Low Emission
12	148-1231	1	Regulator	35	148-1241	1	* Gasket, Mixer – With Low Emission
13	505-0754	1	Nipple, Pipe (3/4 x 6.00)	36	802-2537	4	* Screw, Cap – Socket Head – With Low Emission
14	148-1234-02	1	Clamp, Fuel System	37	098-7966	1	* Label, Emissions – With Low Emission
15	307-2930	1	Valve, Solenoid	38	526-0393	3	Washer, Flat (M10)
16			* Tee, Pipe – With Low Pressure Switch	39	508-1158	1	Grommet
	505-0166	1	Without Low Emission	40	150-2651	1	Pick-Up, Magnetic
	505-0661	1	With Low Emission	41	338-3740-01	1	* Harness, Wiring – Fuel Alarm (Includes Relay)
17			* Bushing, Reducer – With Low Pressure Switch	42	307-2817-01	1	* Relay (12 Volt)
	505-0020	1	Without Low Emission				
	505-0802	1	With Low Emission				
18	505-0007	1	* Bushing, Reducer (1/4 x 1/8) – With Low Pressure Switch				
19	309-0669-01	1	* Switch, Low Pressure				
20	526-2100	2	Washer, Flat (M8)				
21	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)				

* – Optional Parts

**Base and Low Emission Dual Fuel System With Automatic Changeover
Natural Gas / LP Vapor
Begin Spec D**

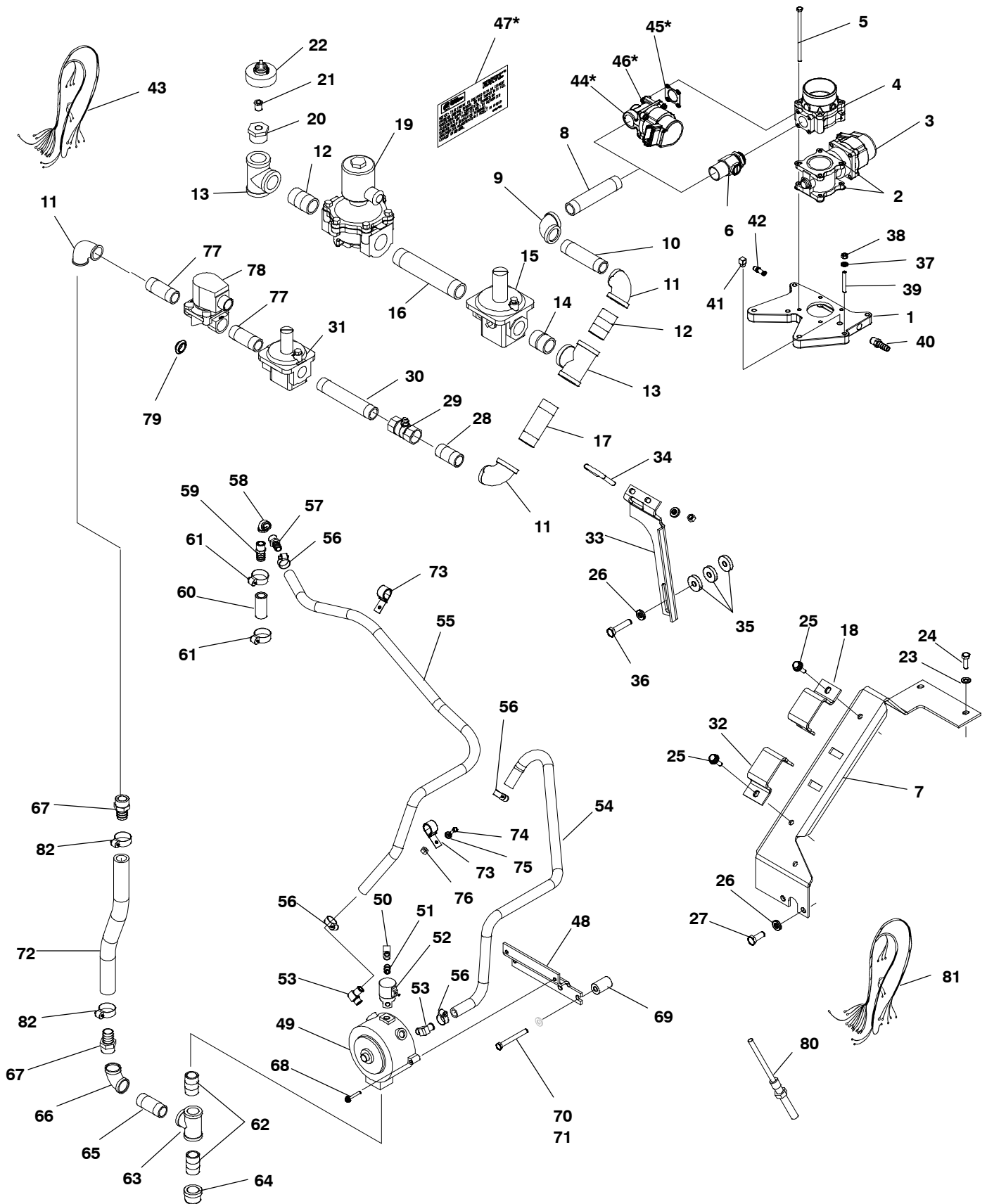


Base and Low Emission Dual Fuel System With Automatic Changeover
Natural Gas / LP Vapor
Begin Spec D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	29	504-0171	1	Valve – Without Low Emission
2	145-0813	2	Gasket, Throttle Body	30	505-0165	1	Nipple, Pipe (3/4 x 5.50) – Without Low Emission
3	150-2762-01	1	Governor	31	148-1231	1	Regulator – LP Vapor
4	148-1200-02	1	Mixer, ITB	32			Nipple, Pipe
5	815-1536	4	Screw, Cap – Hex Head (M6 x 1 x 110)		505-0085	1	Without Low Emission (3/4 x 2.00)
6	504-0210	1	Valve, Fuel – Without Low Emission		505-0754	1	With Low Emission (3/4 x 6.00)
7	148-1164-02	1	Bracket, Fuel System – Mounting	33	307-2930	1	Valve, Solenoid
8	505-0341	1	Nipple, Pipe (3/4 x 5.00)	34	148-1234-02	1	Clamp, Fuel System
9	505-0132	1	Elbow, Pipe	35	148-1247-02	1	Bracket, Fuel System
10	505-0337	1	Nipple, Pipe (3/4 x 4.00)	36	155-1256	1	Clamp, Muffler
11	505-0356	2	Elbow – 90°	37	526-0077	3	Washer, Flat (M10)
12	505-0107	2	Nipple, Pipe (1 x 2.00)	38	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)
13	505-0304	2	Tee, Pipe	39	526-2080	4	Washer, Flat (M6)
14	505-0004	1	Nipple, Pipe (1 x 1.50)	40	862-0026-54	4	Nut, Hex (M6)
15	148-1202	1	Regulator – Natural Gas	41	520-1024	4	Stud (M6)
16	505-0492	1	Nipple, Pipe (1 x 6.50)	42	502-1162	1	Fitting, Barbed Hose
17	505-0147	1	Nipple, Pipe (1 x 3.50)	43	502-0020-01	1	Elbow, Pipe – Street (1/8)
18	148-1090	1	Clamp, Fuel System	44	502-0432	1	Connector, Hose
19	307-2884	1	Valve, Solenoid	45	508-1158	1	Grommet
20	505-0802	1	Bushing, Reducer (1 x 1/4)	46	338-3816-01	1	Harness, Dual Fuel
21	505-0007	1	Bushing, Reducer (1/4 x 1/8)	47	300-5530-02	1	* Control, Fuel – With Low Emission
22	309-0669-01	1	Switch, Low Pressure	48	148-1241	1	* Gasket, Mixer – With Low Emission
23	526-2100	2	Washer, Flat (M8)	49	802-2537	4	* Screw, Cap – Socket Head – With Low Emission
24	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	50	098-7966	1	* Label, Emissions – With Low Emission
25	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)	51	150-2651	1	Pick-Up, Magnetic
26	526-0174	3	Washer, Flat (3.4)	52	338-4037	1	* Harness, Wiring – Fuel Alarm (Includes Relay)
27	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	53	307-2817-01	1	* Relay (12 Volt)
28			Nipple, Pipe				
	505-0332	1	Without Low Emission – (3/4 x 3.00)				
	505-0085	1	With Low Emission – (3/4 x 2.00)				

* – Optional Parts

**Base and Low Emission Fuel System With Automatic Changeover
Natural Gas / LP Liquid
Begin Spec D**

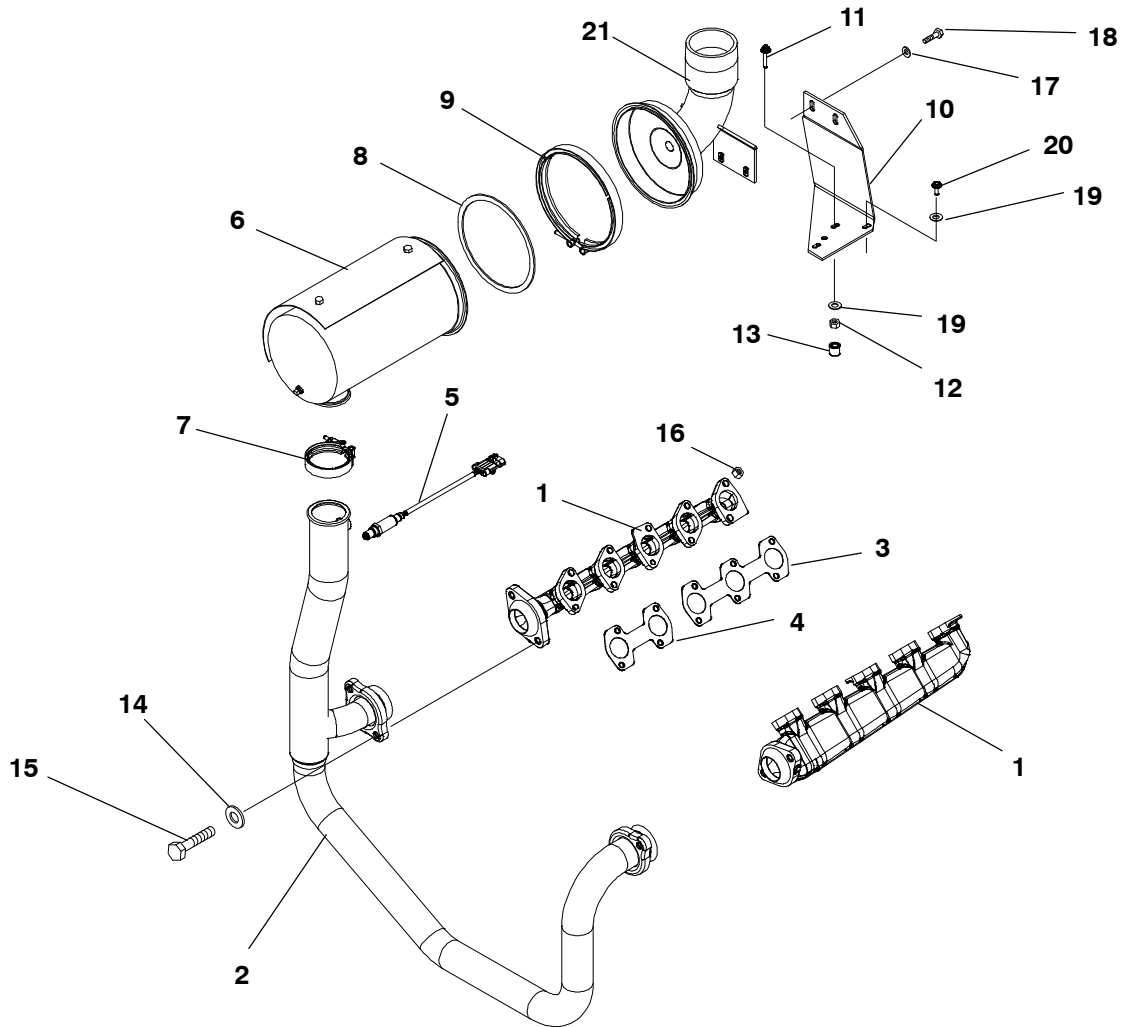


Base and Low Emission Fuel System With Automatic Changeover
Natural Gas / LP Liquid
Begin Spec D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3131	1	Adapter, Intake	45	148-1241	1	* Gasket, Mixer – With Low Emission
2	145-0813	2	Gasket, Throttle Body	46	802-2537	4	* Screw, Cap – Socket Head – With Low Emission
3	150-2762-01	1	Governor	47	098-7966	1	* Label, Emissions – With Low Emission
4	148-1200-02	1	Mixer, ITB	48	148-1248-02	1	Bracket, Converter
5	815-1536	4	Screw, Cap – Hex Head (M6 x 1 x 110)	49	148-1240	1	Converter
6	504-0210	1	Valve, Fuel – Without Low Emission	50	502-0054	1	Elbow, Street Pipe
7	148-1164-02	1	Bracket, Fuel System – Mounting	51	505-0099	1	Nipple, Pipe (1/4 x .88)
8	505-0341	1	Nipple, Pipe (3/4 x 5.00)	52	307-0268-01	1	Valve, Solenoid
9	505-0132	1	Elbow, Pipe	53	502-0942	2	Elbow, 90° Hose
10	505-0337	1	Nipple, Pipe (3/4 x 4.00)	54	503-2293-04	1	Hose, Coolant
11	505-0356	3	Elbow – 90°	55	503-2293-05	1	Hose, Coolant
12	505-0107	2	Nipple, Pipe (1 x 2.00)	56	503-0183	4	Clamp, Hose
13	505-0304	2	Tee, Pipe	57	502-1006	1	Connector, Hose (1/2 x 5/8)
14	505-0004	1	Nipple, Pipe (1 x 1.50)	58	505-0040	1	Elbow, Pipe
15	148-1202	1	Regulator	59	502-0827	1	Hose, Barb
16	505-0492	1	Nipple, Pipe (1 x 6.50)	60	503-0191	–	Hose, Water – Bulk (Order by the Foot – 1 Foot Required)
17	505-0147	1	Nipple, Pipe (1 x 3.50)	61	503-1870-01	2	Clamp, Hose
18	148-1090	1	Clamp, Fuel System	62	505-0107	2	Nipple, Pipe (1 x 2.00)
19	307-2884	1	Valve, Solenoid	63	505-0304	1	Tee, Pipe
20	505-0802	1	Bushing, Reducer (1 x 1/4)	64	505-0479	1	Cap, Pipe
21	505-0007	1	Bushing, Reducer (1/4 x 1/8)	65	505-0087	1	Nipple, Pipe (1 x 3.00)
22	309-0669-01	1	Switch, Low Pressure	66	505-0041	1	Elbow, Pipe
23	526-2100	2	Washer, Flat (M8)	67	502-1110-01	2	Connector, Hose
24	800-3017-20	2	Screw, Cap – Hex Head (M8 x 1.25 x 25)	68	815-0924	2	Screw, Hex Washer Head (M6 x 1 x 40)
25	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)	69	130-3660-02	2	Spacer, Shock Absorber – UCD224 Generator
26	526-0174	3	Washer, Flat (3.4)	70	800-2099	2	Screw, Cap – Hex Head (M10 x 1.5 x 90) – UCD224 Generator
27	800-2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)	71	800-2115	2	Screw, Cap – Hex Head (M12 x 1.5 x 45) – UC274 Generator
28			Nipple, Pipe	72	503-2353-02	1	Hose, Fuel
	505-0332	1	Without Low Emission – (3/4 x 3.00)	73	332-3196	3	Clamp, J
	505-0085	1	With Low Emission – (3/4 x 3.00)	74	800-2034	1	Screw, Cap – Hex Head (M6 x 1 x 20)
29	504-0171	1	Valve – Without Low Emission	75	526-0018	1	Washer, Flat (1/4)
30	505-0165	1	Nipple, Pipe (3/4 x 5.50) – Without Low Emission	76	860-2007	1	Nut, Hex (M6 x 1)
31	148-1231	1	Regulator	77			Nipple, Pipe
32	148-1234-02	1	Clamp, Fuel System		505-0085	2	Without Low Emission (3/4 x 2.00)
33	148-1247-02	1	Bracket, Fuel System		505-0754	1	With Low Emission (3/4 x 6.00)
34	155-1256	1	Clamp, Muffler	78	307-2930	1	Valve, Solenoid
35	526-0077	3	Washer, Flat (M10)	79	505-1158	1	Grommet
36	800-2090	1	Screw, Cap – Hex Head (M10 x 1.5 x 45)	80	150-2651	1	Pick-Up, Magnetic
37	526-2080	4	Washer, Flat (M6)	81	338-4115	1	Harness, Jumper
38	862-0026-54	4	Nut, Hex (M6)	82	503-2157-02	2	Clamp, Hose
39	520-1024	4	Stud (M6)				
40	502-1162	1	Fitting, Barbed Hose				
41	502-0020-01	1	Elbow, Pipe – Street (1/8)				
42	502-0432	1	Connector, Hose				
43	338-3816-01	1	Harness, Dual Fuel				
44	300-5530-02	1	* Control, Fuel – With Low Emission				

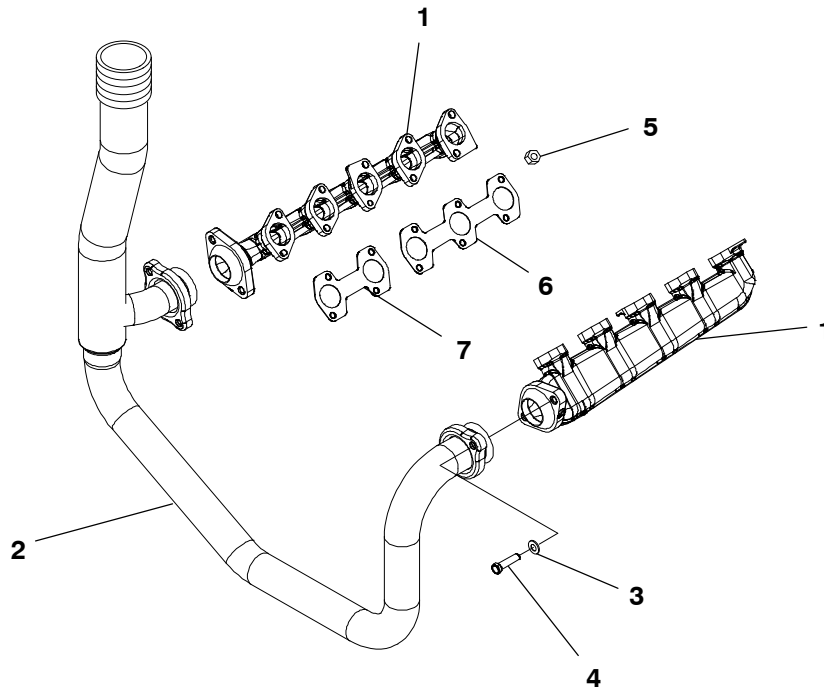
* – Optional Parts

**Low Emission Exhaust System
With 3" NPT Exhaust Pipe
Begin Spec C**



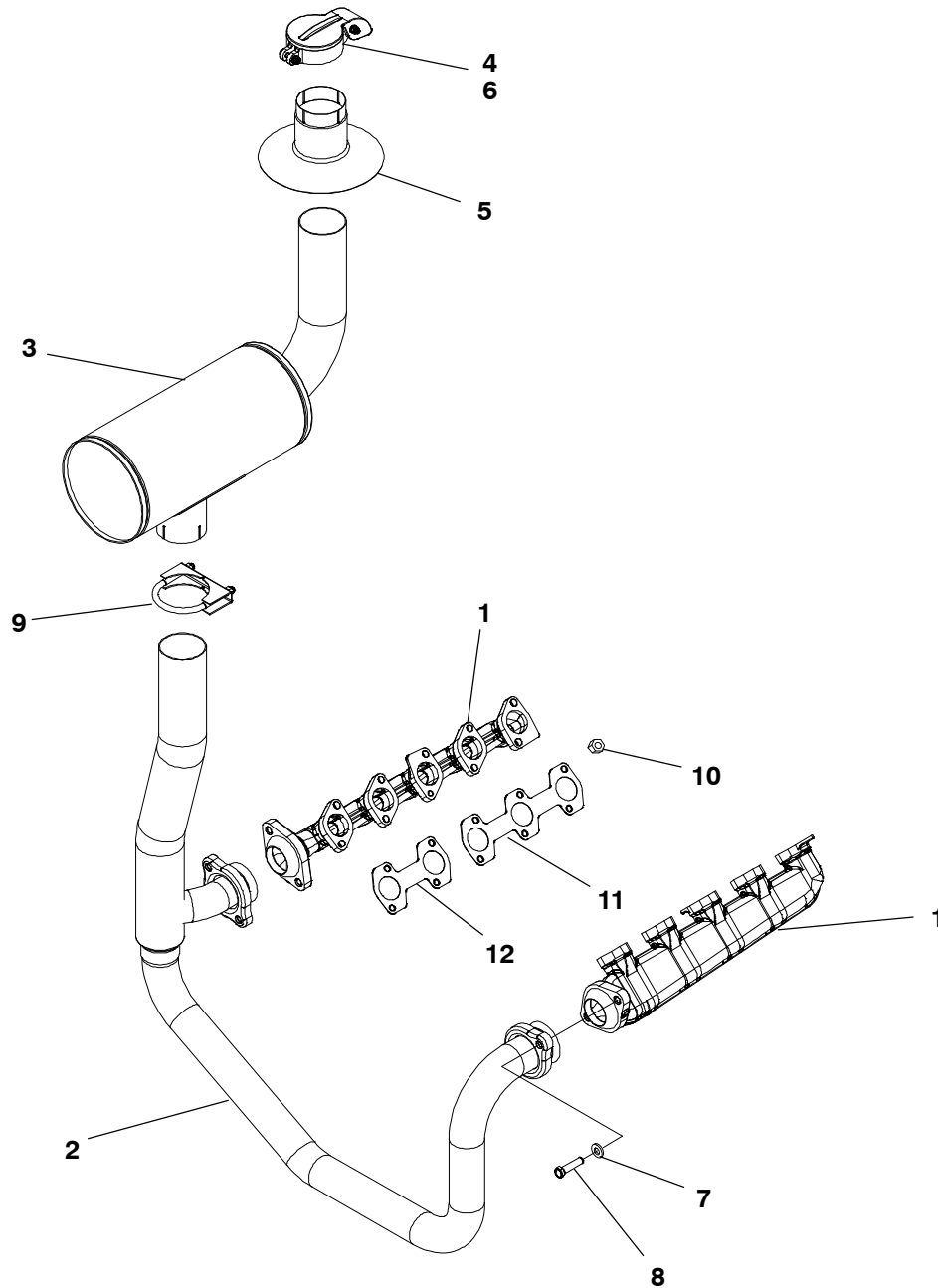
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3094	2	Manifold, Exhaust	14	526-2140	4	Washer, Flat (M12)
2	155-3566	1	Pipe, Exhaust	15	800-2115	4	Screw, Cap – Hex Head (M12 x 1.75 x 45)
3	154-3105	2	Gasket, Exhaust Manifold	16	154-3104	20	Nut, Exhaust Manifold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

Exhaust System With 3" NPT Exhaust Pipe



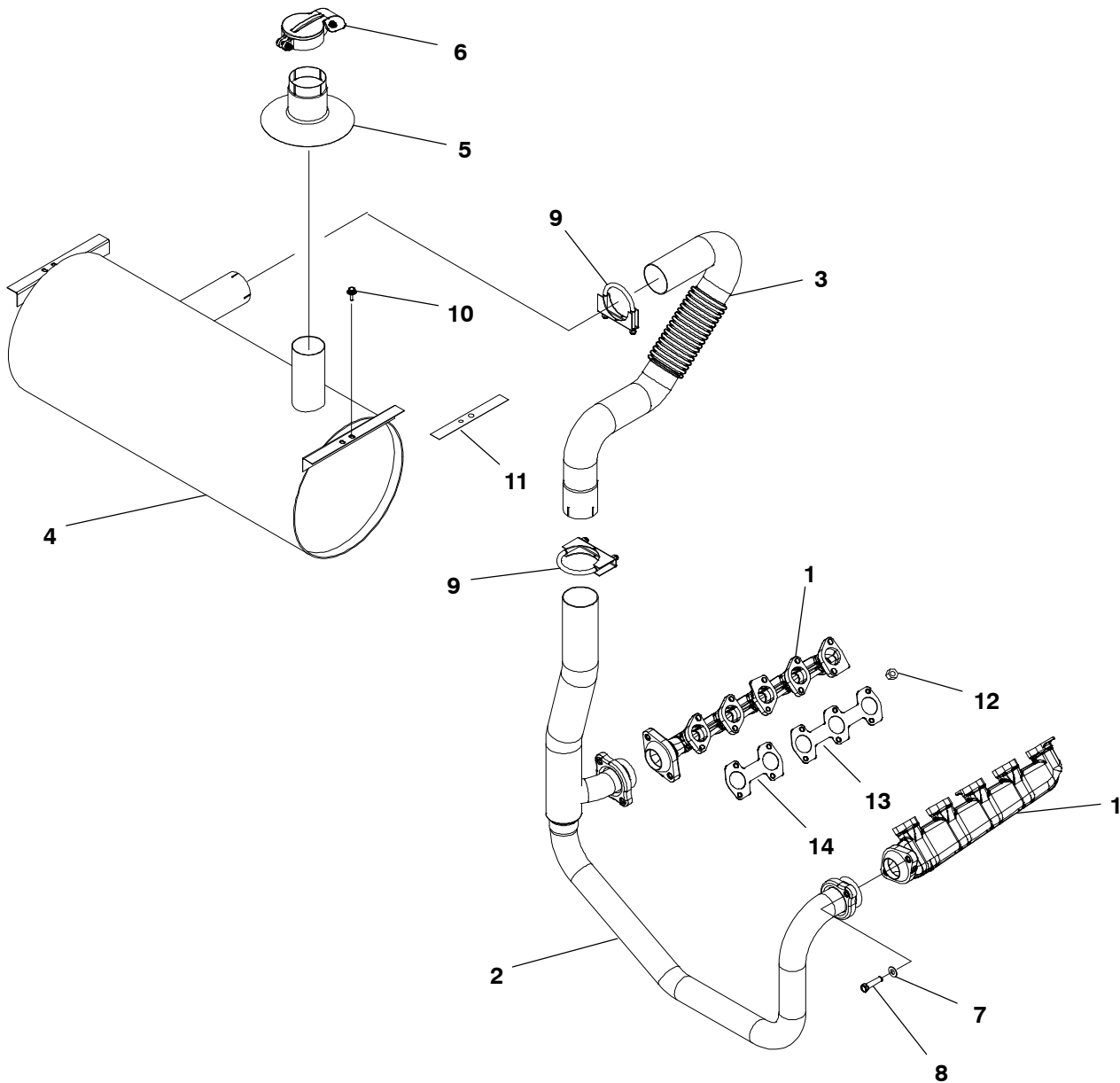
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3094	2	Manifold, Exhaust	5	154-3104	20	Nut, Hex (M8 x 1.25)
2	154-3098	1	Tube, Exhaust	6	154-3105	2	Gasket, Exhaust Manifold
3	526-2140	4	Washer, Flat (M12)	7	154-3106	2	Gasket, Exhaust Manifold
4	800-2115	4	Screw, Cap - Hex Head (M12 x 1.75 x 45)				

Engine Mounted Muffler (F182)



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

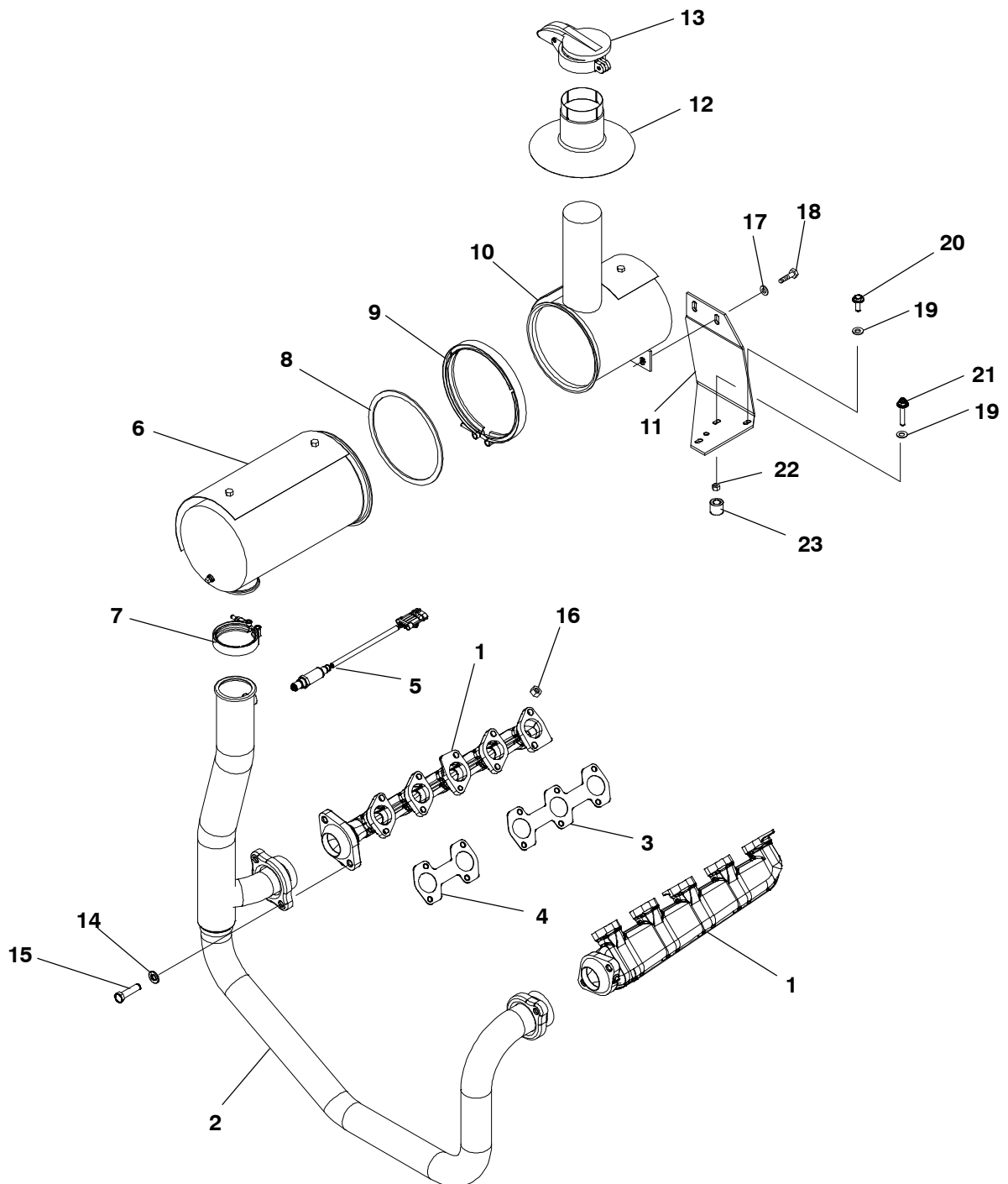
Muffler **Critical Muffler For Sound Attenuating Enclosure** **(F172 / F173)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3094	2	Manifold, Exhaust
2	154-3099	1	Tube, Exhaust
3	154-3048	1	Tube, Exhaust
4	155-3167	1	Silencer
5	155-3102-02	1	Shield, Rain
6	155-2062-10	1	Cap, Rain
7	526-0356	4	Washer, Flat (7/16)
8	800-0315	4	Screw, Cap - Hex Head (7/16-14 x 1.75)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	155-2175	2	Clamp, Muffler (3.00")
10	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)
11	155-3219	2	Gasket, Exhaust
12	154-3104	20	Nut, Hex (M8 x 1.25)
13	154-3105	2	Gasket, Exhaust Manifold
14	154-3106	2	Gasket, Exhaust Manifold

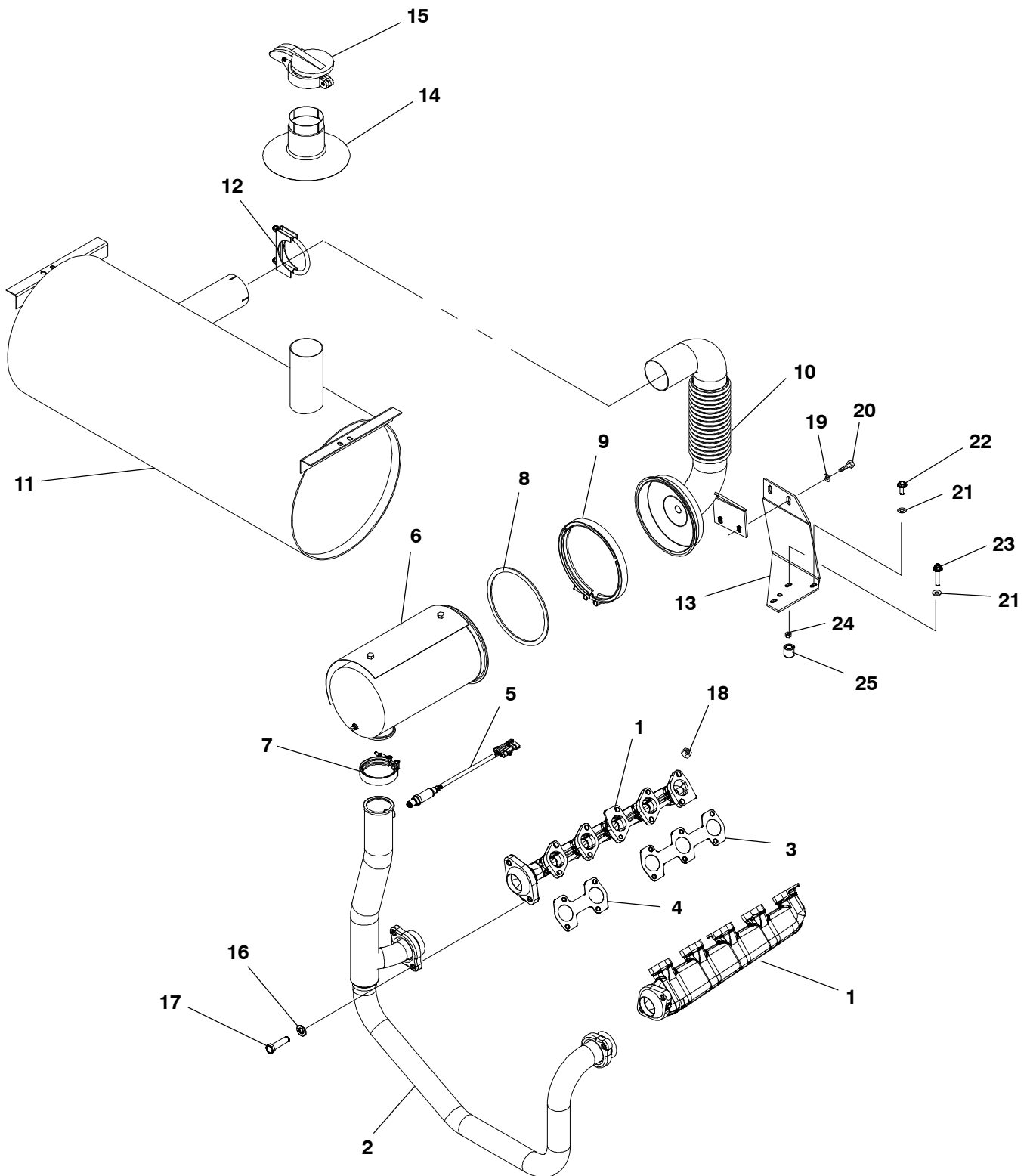
**Low Emission Exhaust
Engine Mounted Muffler (F182)
Begin Spec C**



**Low Emission Exhaust
Engine Mounted Muffler (F182)
Begin Spec C**

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

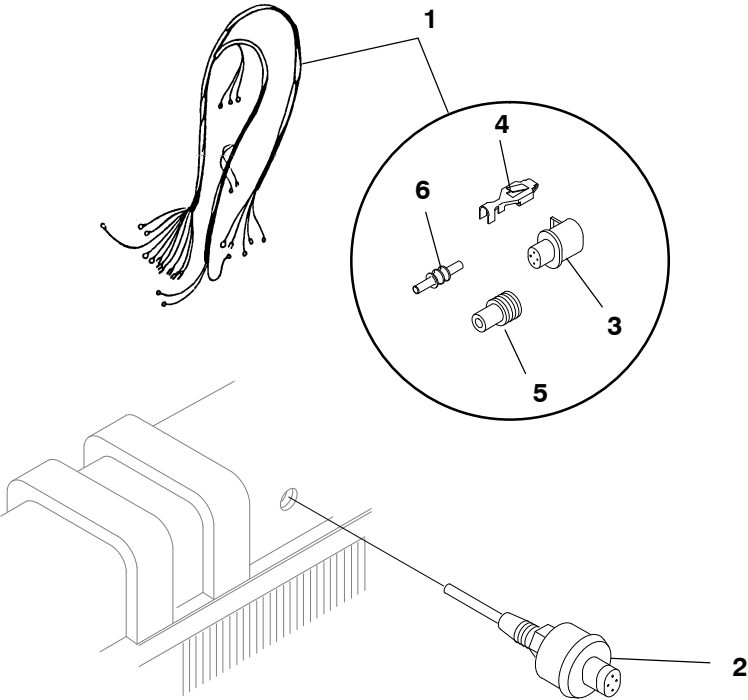
**Low Emission Exhaust
Critical Muffler For Sound Attenuating Enclosure (F172/F173)
Begin Spec C**



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

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

Low Coolant Level Sender

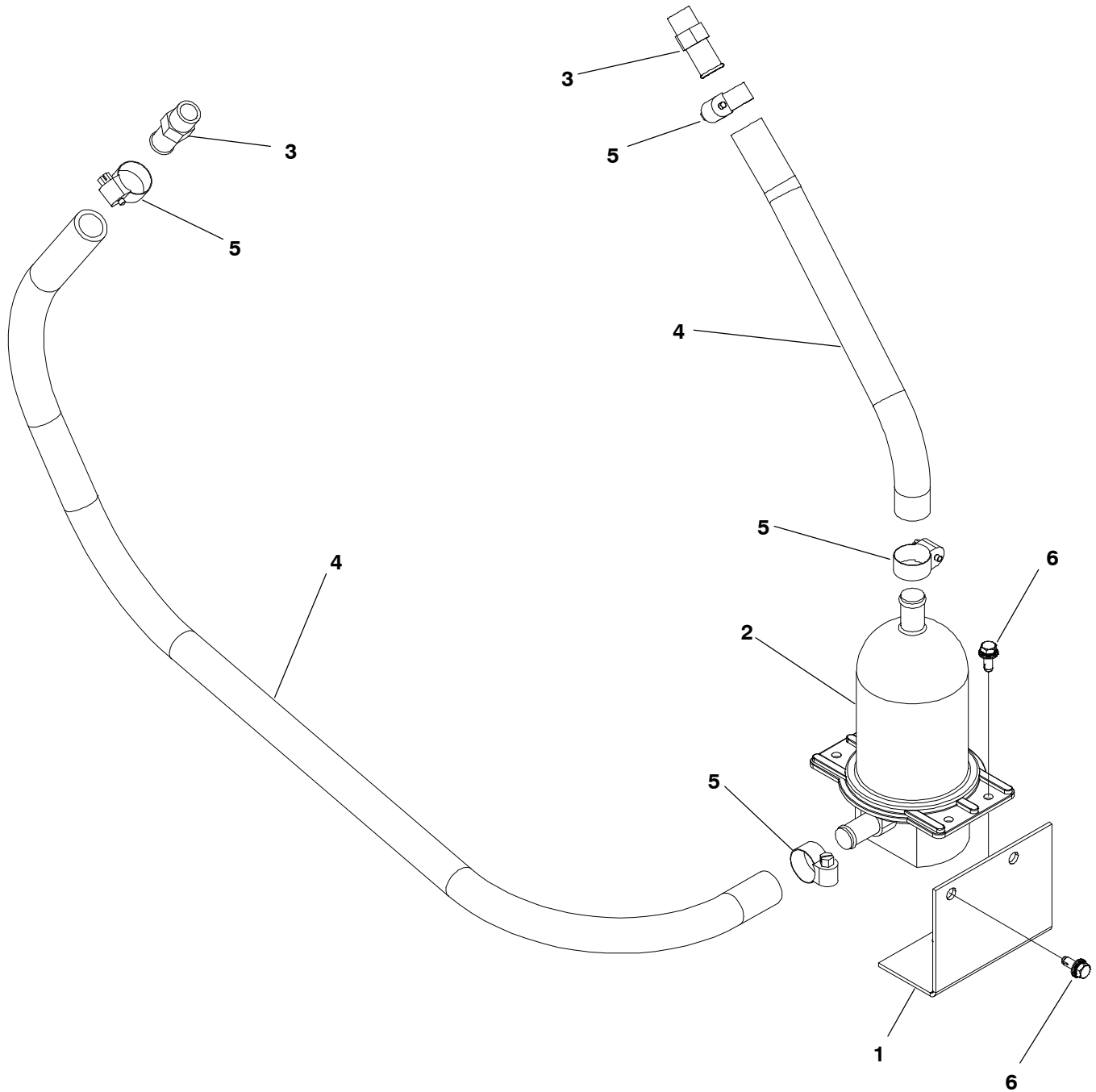


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3751	1	Harness, Low Coolant Level (Includes Parts Marked *)
2	193-0468	1	Sender, Low Coolant Level
3	323-1765	1	*Housing, Connector (4 Pin)
4	323-1709	4	*Socket, Contact (Used in S7)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	323-1708	4	*Seal, Cable
6	323-1712	1	*Plug, Cavity

* - Parts Included in 338-3751 Wiring Harness

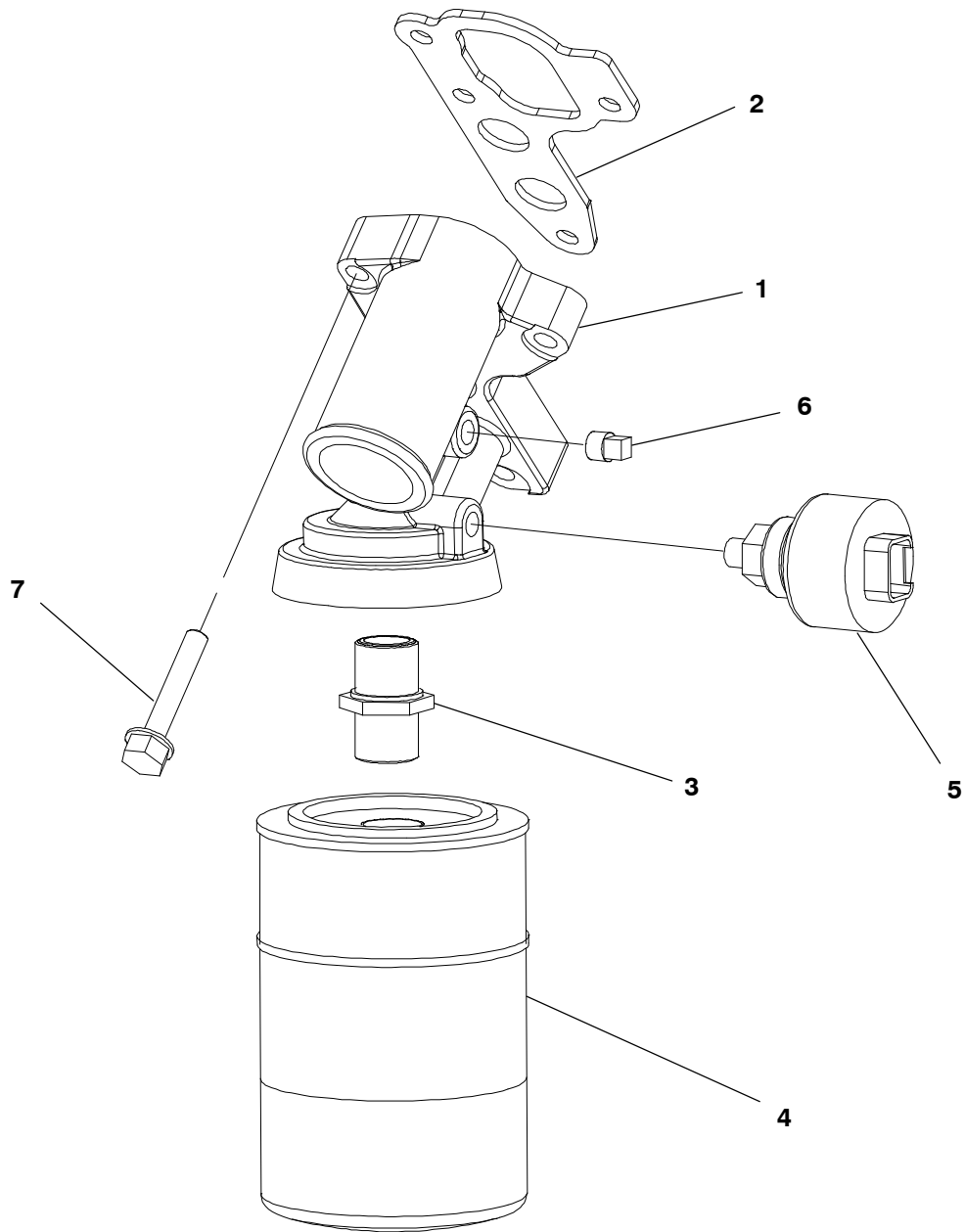
Coolant Heater



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

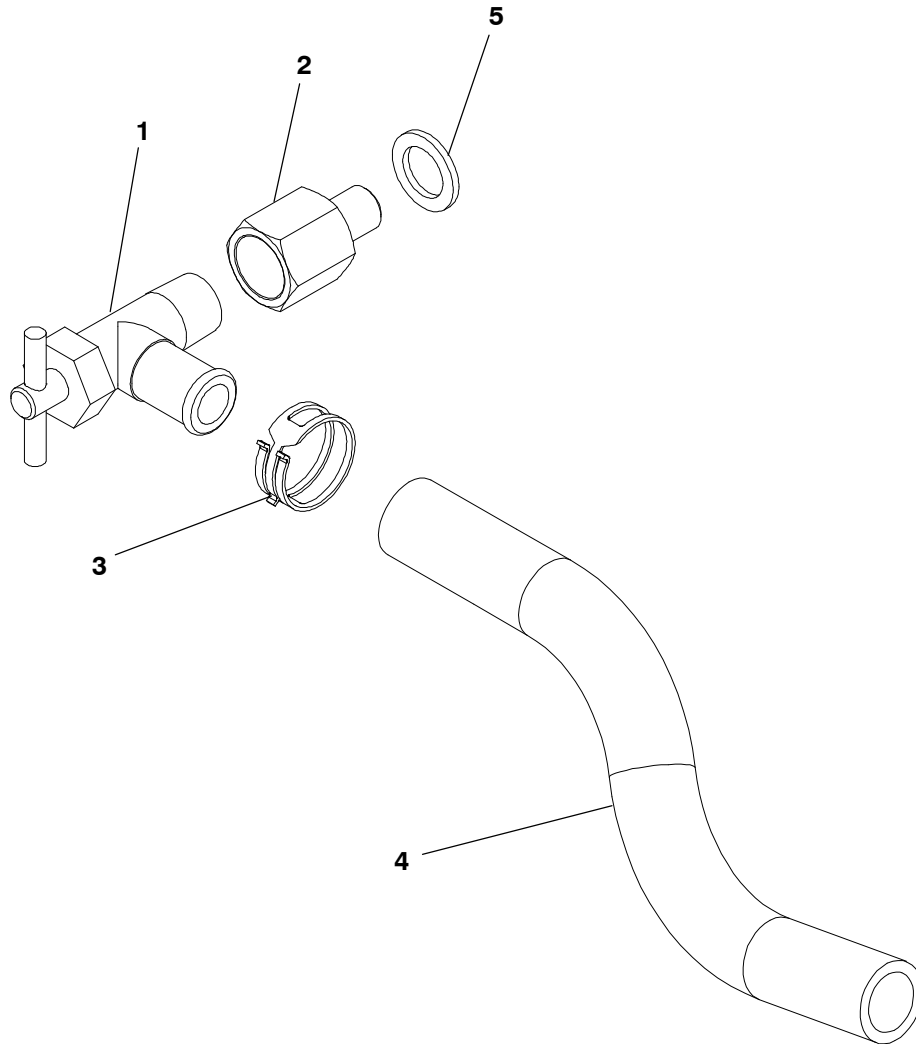
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	503-0386	–	Hose, Heater – Bulk (Order by the Foot – 5 Feet Required)
5	503-0183	4	Clamp, Hose
6	821-6006-01	4	Screw, Hex Head (M6 x 1 x 16)

Oil Filter (Except Prime Power)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0837	1	Adapter, Oil Filter	5	193-0448	1	Sender, Oil Pressure
2	122-0842	1	Gasket, Oil Filter Adapter	6	505-0057	1	Plug, Square Head
3	122-0838-02	1	Stud, Oil Filter	7	815-0970	4	Screw, Hex – Flange Head (M8 x 1.25 x 40)
4	122-0841	1	Filter, Oil				

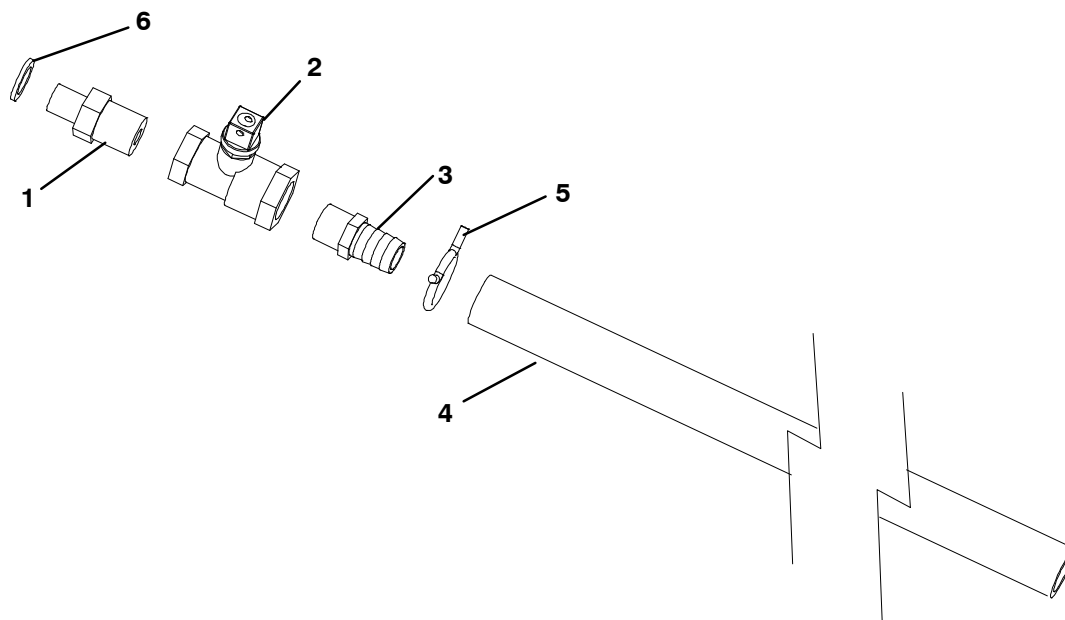
**Oil Drain Extension
(Except Prime Power)
Begin Spec C**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	504-0176	1	Valve, Oil Drain
2	102-1503-04	1	Adapter, Oil Drain
3	503-0131	1	Clamp, Hose

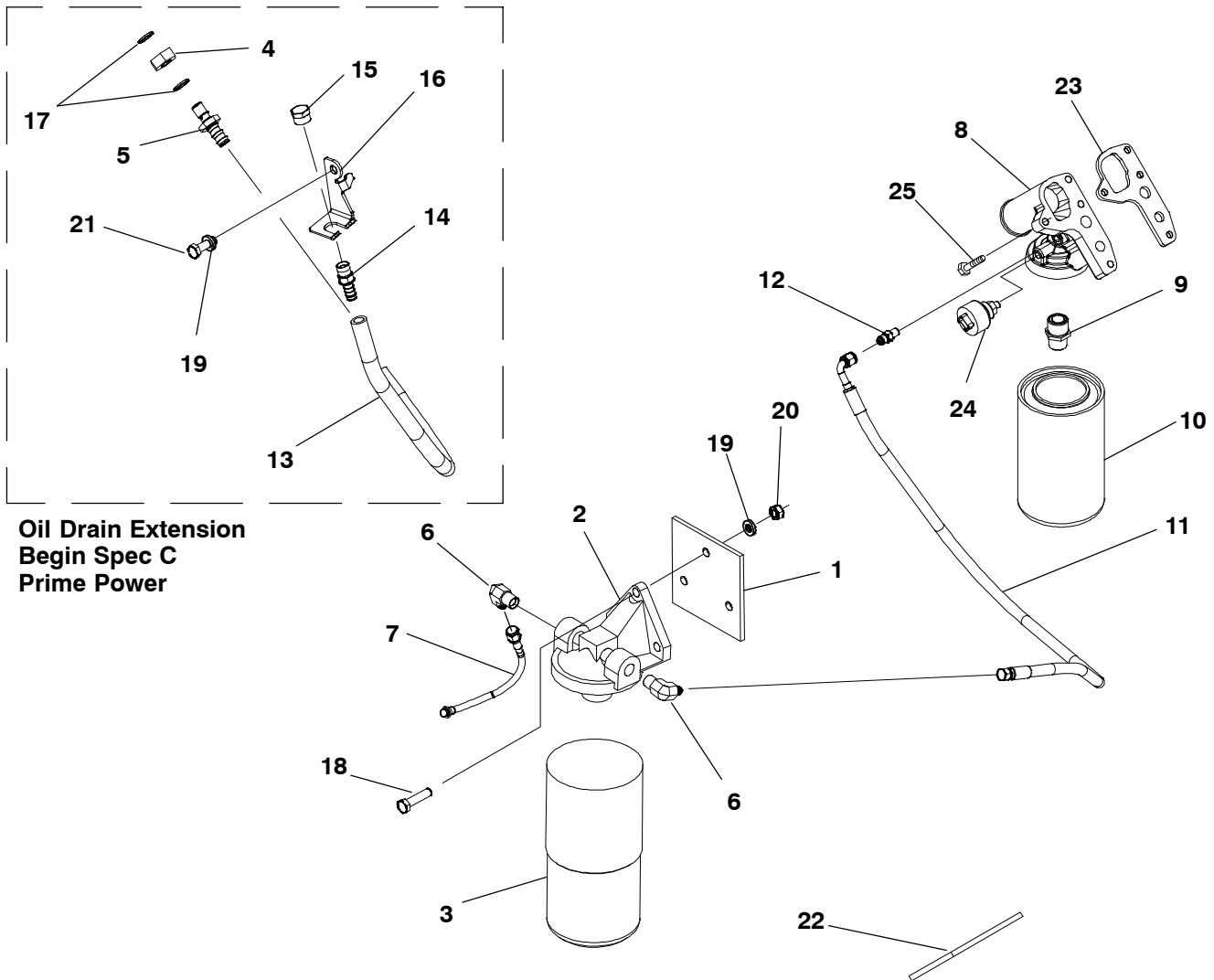
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	503-1660-08	1	Hose, Fuel
5	102-1320	1	Gasket, Oil Drain

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	Clamp, 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)				

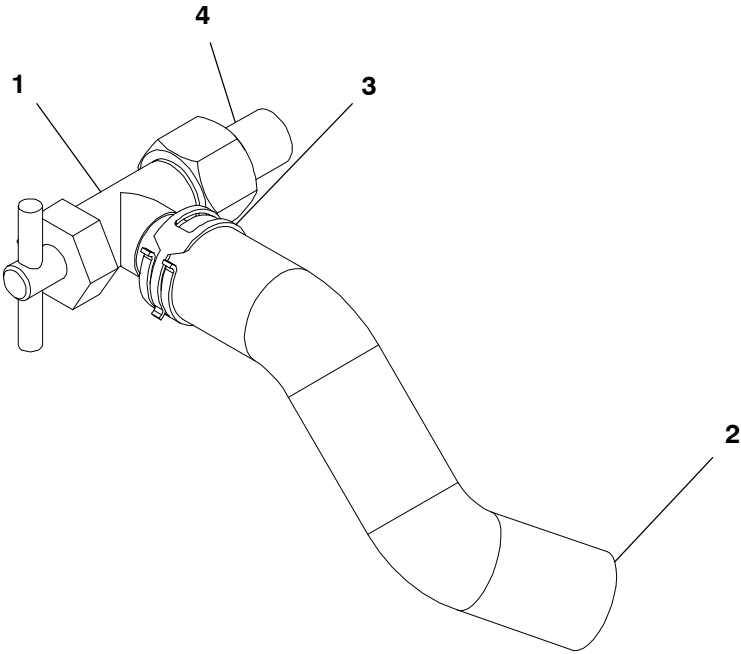
**Oil System
(Prime Power)
Begin Spec C**



**Oil Drain Extension
Begin Spec C
Prime Power**

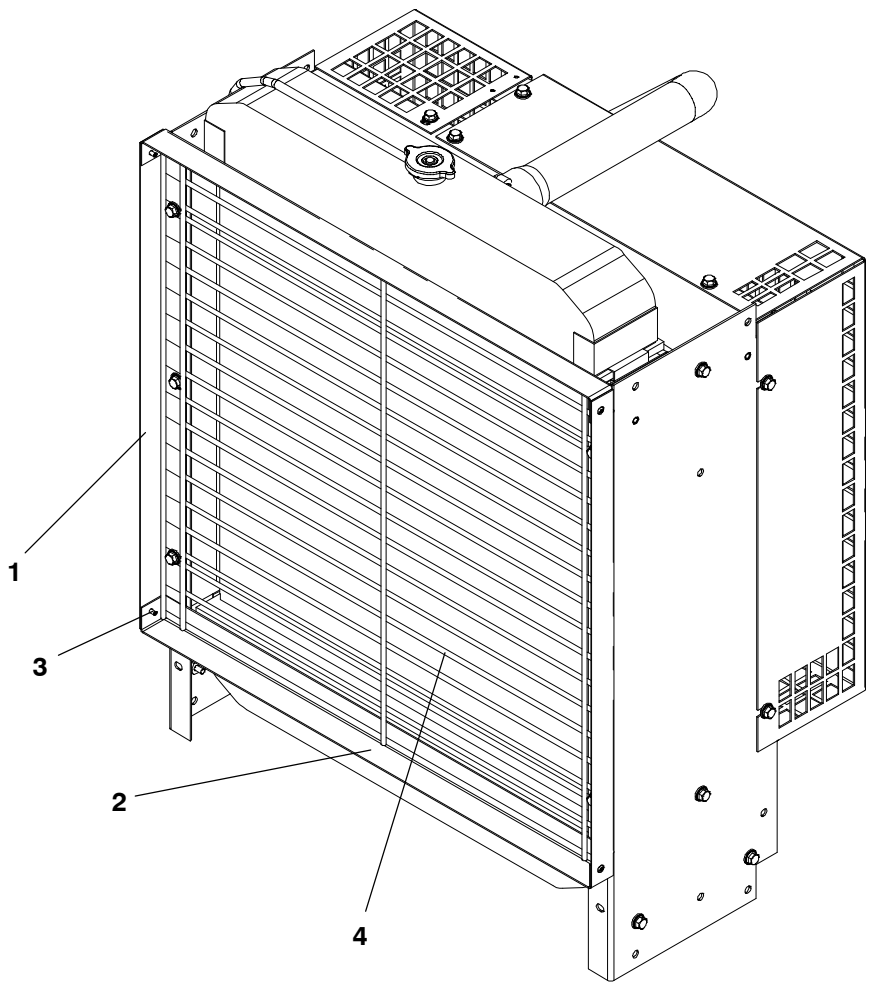
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0861-02	1	Bracket, Oil Filter	15	502-1123	1	Cap, Pipe
2	122-0702	1	Head, Oil Filter	16	120-1338-02	1	Bracket, Oil Drain
3	122-0777	1	Filter, Oil	17	102-1320	2	Gasket, Oil Drain
4	502-1420	1	Fitting, Banjo	18	800-2089	3	Screw, Cap - Hex Head (M10 x 1.5 x 40)
5	502-1419	1	Adapter, Banjo	19	526-0174	4	Washer, Flat (3.4)
6	502-1422	2	Elbow, Tube	20	860-2009	3	Nut (M10 x 1.5)
7	503-2229	1	Hose, Oil - Bypass	21	800-2087	1	Screw, Cap - Hex Head (M10 x 1.5 x 30)
8	122-0837	1	Adapter, Oil Filter	22	332-1389	2	Clamp, Tie
9	520-1027-02	1	Stud, Oil Filter	23	122-0842	1	Gasket, Oil Filter Adapter
10	122-0848	1	Filter, Oil	24	193-0448	1	Sender, Oil Pressure
11	503-2228	1	Hose, Oil - Bypass	25	815-0970	4	Screw, Hex - Flange Head (M8 x 1.25 x 40)
12	502-1240	1	Connector, Male				
13	503-2294	1	Hose, Drain				
14	502-1421	1	Connector, Hose				

Coolant Drain



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	504-0176	1	Valve, Coolant Drain	3	503-0131	1	Clamp, Hose
2	503-0386	3'	Hose, Coolant Drain – Engine	4	502-0426-01	1	Adapter, Pipe

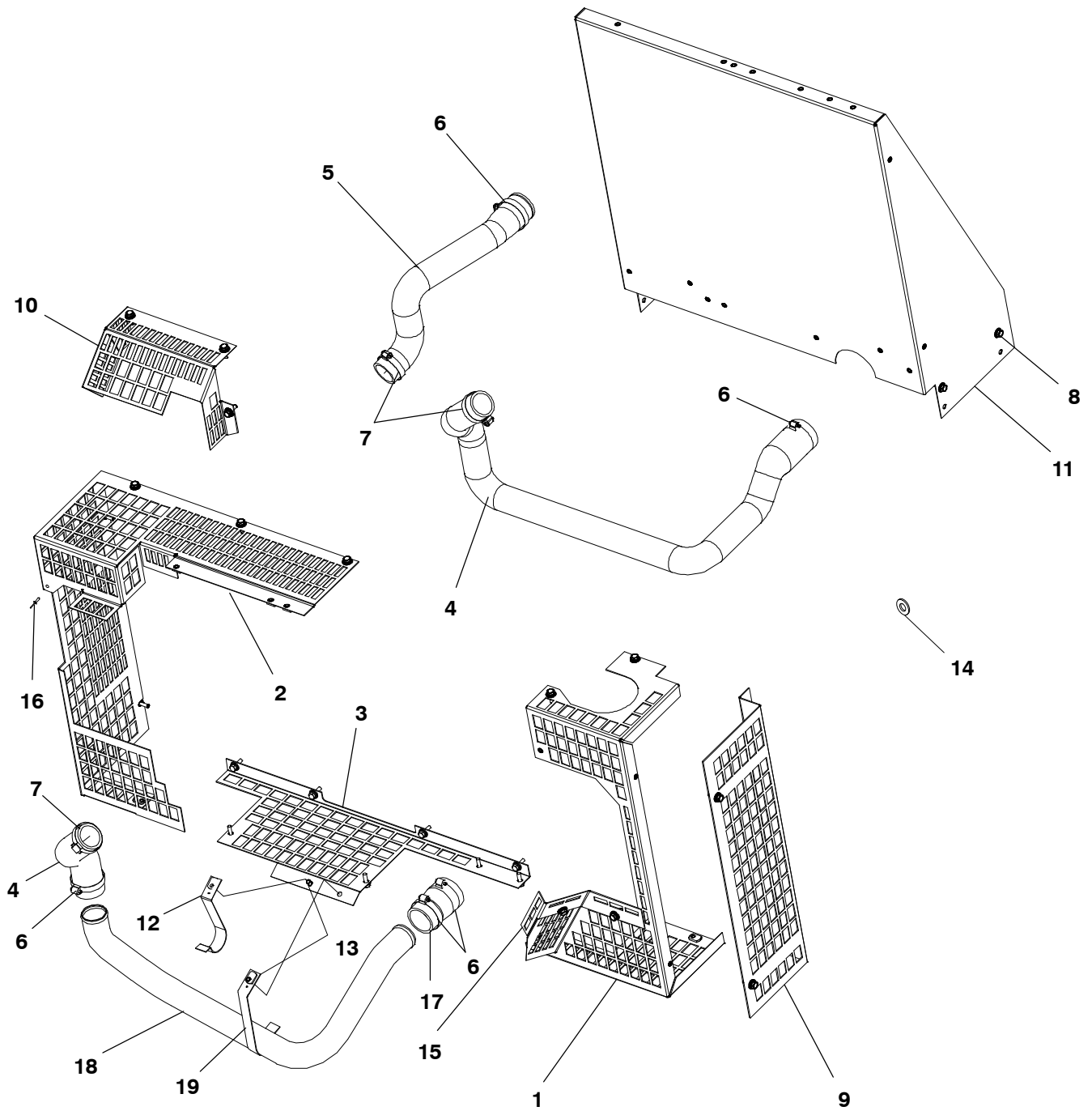
Radiator Duct Adapter



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

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

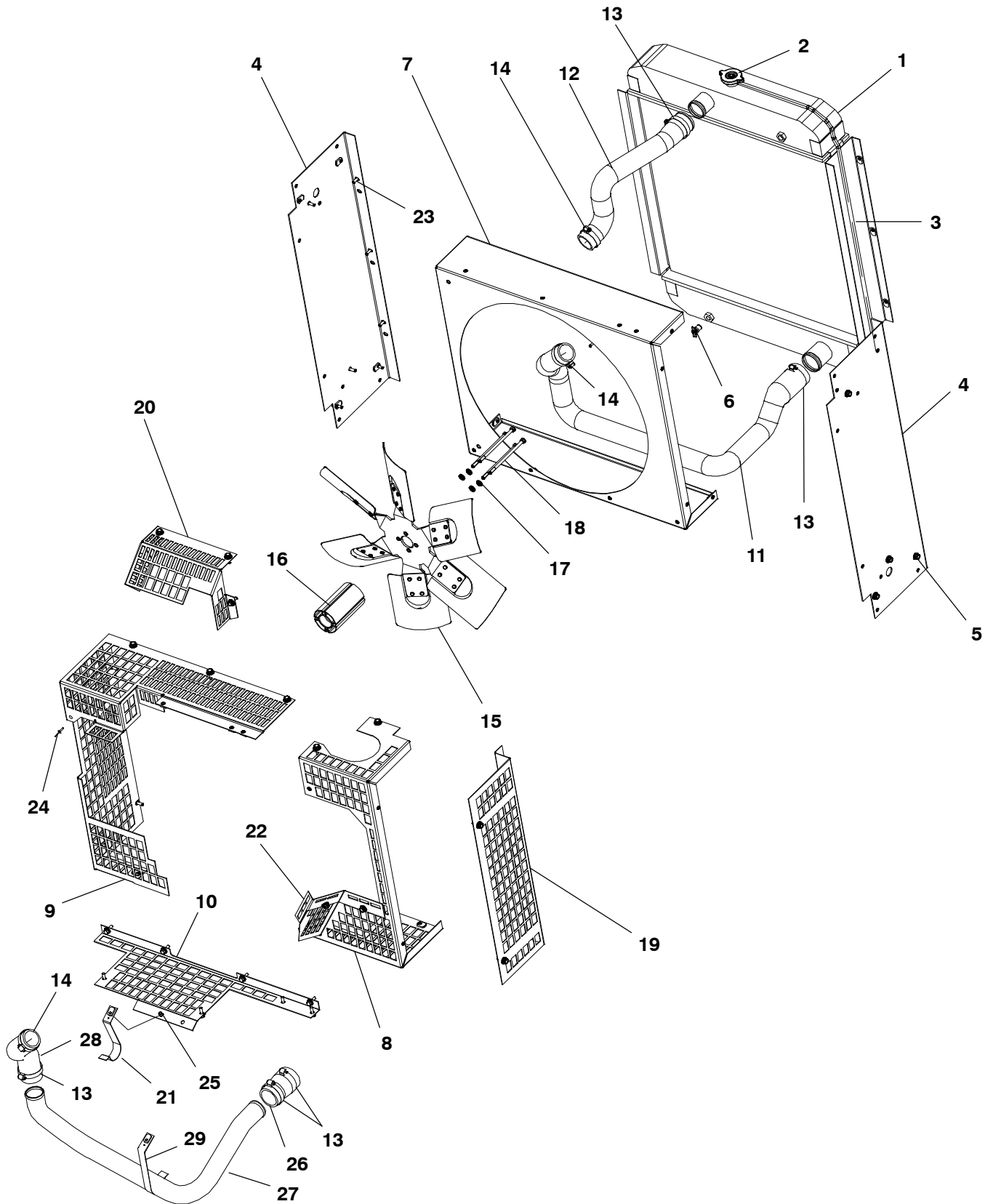
Remote Radiator



Remote Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5219-02	1	Guard, Fan – Left Side	9	130-5284-02	1	Guard, Side
2	130-5220-02	1	Guard, Fan – Right Side	10	130-5221-02	1	Guard, Alternator
3	130-5222-02	1	Guard, Fan – Lower	11	405-6603-02	1	Panel, Radiator Housing – Front
4			Hose, Radiator Outlet	12	130-5304-02	1	Hanger, Hose – Spec A, B
	130-5227	1	Spec A, B	13	800-2052	5	Screw, Cap – Hex Head (M8 x 1.25 x 12)
	130-5363	1	Begin Spec C	14	526-2101	4	Washer, Flat (M8)
5	130-5228	1	Hose, Radiator Inlet	15	130-5306-02	1	Guard, Fan
6			Clamp, Hose	16	818-0231-02	1	Rivet, Pop
	503-0465	2	Spec A, B	17	503-2361	1	Hose, Radiator – Begin Spec C
	503-0465	4	Begin Spec C	18	130-5631-02	1	Tube, Radiator – Begin Spec C
7	503-0365	2	Clamp, Hose	19	130-5630-02	1	Bracket, Tube – Begin Spec C
8	821-6003-02	28	Screw, Hex Head (M8 x 1.25 x 20)				

Radiator

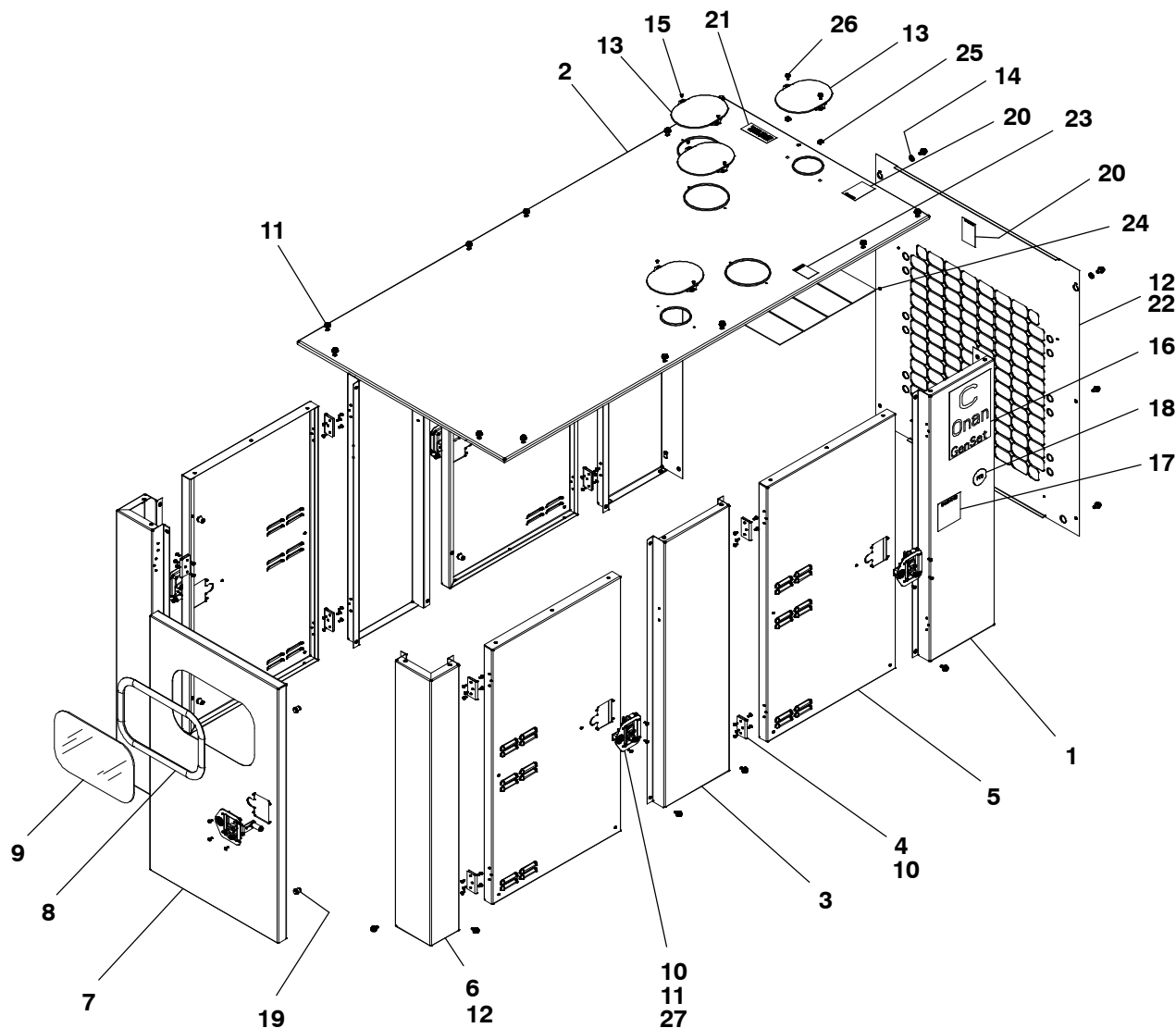


Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4596-02	1	Radiatorr (Includes Radiator Cap and Overflow Hose)	14	503-0365	2	Clamp, Hose
2	130-1788	1	Cap, Radiator – 14 PSI	15	130-5287	1	Fan, Radiator
3	503-0276	–	Overflow Hose – Bulk (Order By The Foot – 4 Feet Required)	16	130-5213-01	1	Spacer, Fan
4	130-4767	2	Side, Housing	17	526-2101	4	Washer, Flat (M8)
5	821-6003-02	32	Screw, Hex Head (M8 x 1.25 x 20)	18	800-2077	4	Screw, Cap – Hex Head (M8 x 1 x 150)
6	504-0003	1	Cock, Drain	19	130-5284-02	1	Guard, Side
7	130-5231-02	1	Shroud	20	130-5221-02	1	Guard, Alternator
8	130-5219-02	1	Guard, Fan – Left Side	21	130-5304-02	1	Hanger, Hose – Spec A, B
9	130-5220-02	1	Guard, Fan – Right Side	22	130-5306-02	1	Guard, Fan
10	130-5222-02	1	Guard, Fan – Lower	23	821-6007-02	6	Screw, Hex Head (M8 x 1.25 x 20)
11			Hose, Radiator Outlet	24	818-0231-02	1	Rivet, Pop
	130-5227	1	Spec A, B	25	821-6003-01	1	Screw, Cap – Hex Head (M8 x 1.25 x 16)
	130-5363	1	Begin Spec C	26	503-2361	1	Hose, Radiator – Begin Spec C
12	130-5228	1	Hose, Radiator Inlet	27	130-5631-02	1	Tube, Radiator – Outlet – Begin Spec C
13			Clamp, Hose	28	130-5363	1	Hose, Outlet – Adapter – Begin Spec C
	503-0465	2	Spec A, B	29	130-5630-02	1	Bracket, Tube – Begin Spec C
	503-0465	4	Begin Spec C				

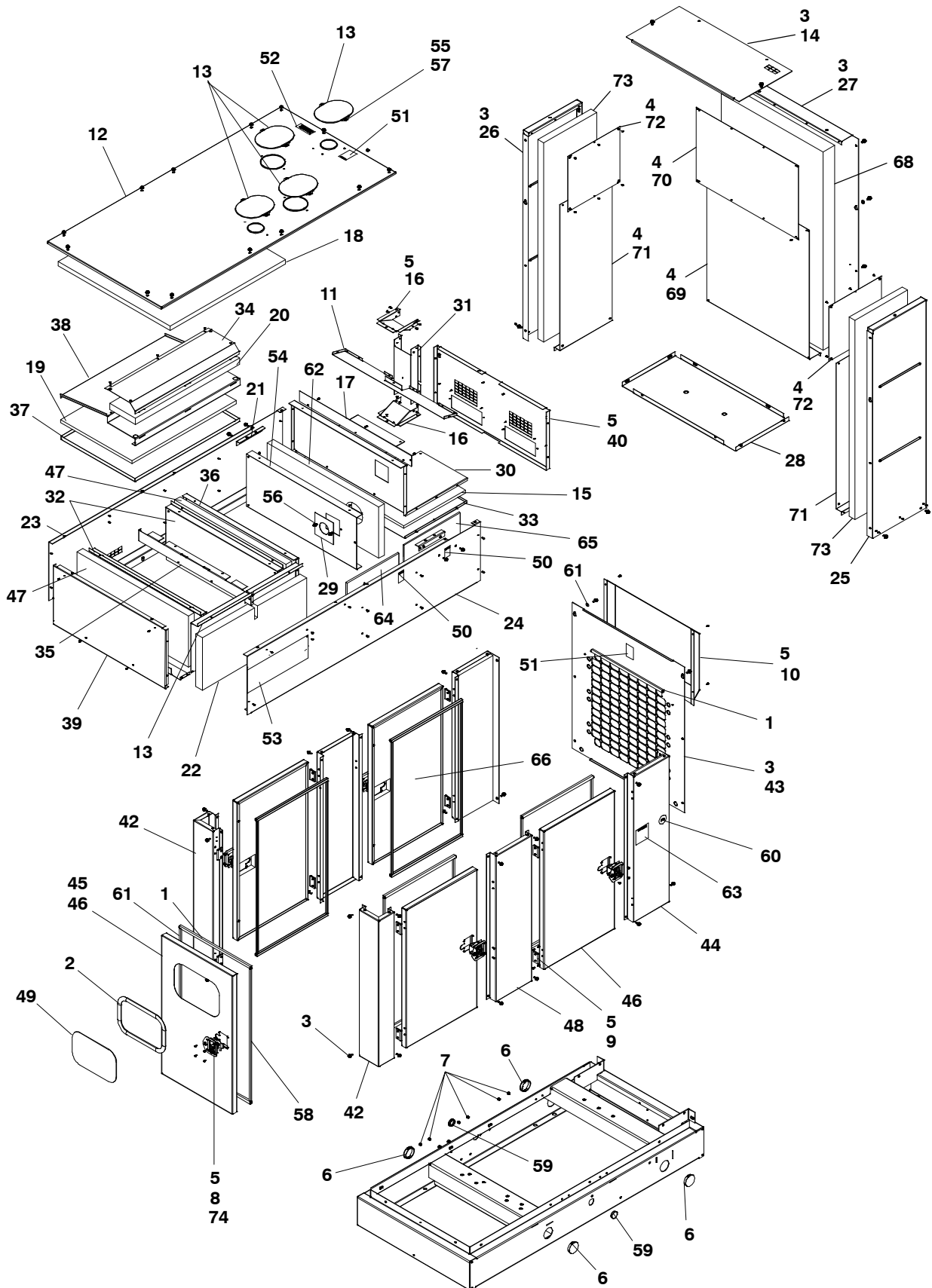
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Housing Standard Weather Protective



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-5908	2	Panel, Side – Radiator Housing	15	818-0237-01	6	Rivet, Pop (1/8)
2	405-6018	1	Roof	16	098-7902-03	3	Label, Model Identification
3	405-5745	2	Post, Housing – Center	17	098-4732	2	Label, Warning
4	406-0831	10	Hinge, Housing	18	098-4500	2	Label, Prototype
5	405-5832	4	Door, Housing	19	895-0382	10	Bumper, Door
6	405-5916	2	Post, Corner – Housing	20	098-4730	2	Label, Warning
7			Door, Rear	21	098-5429	1	Label, Coolant Fill
	405-5902	1	Units Without Window	22	405-5910	1	Panel, Front – Radiator Housing
	405-5903	1	Units With Window	23	098-7451	1	Label, Caution
8	895-0363	4.2'	Weatherstrip – Units with Window	24	130-4848	6.3'	Insulation, Exhaust
9	319-2653	1	Window, Control	25	870-0504	2	Nut, Captive – Floating (M6 x 1.0)
10	818-0231-02	70	Rivet – Pop (3/16)	26	821-6006-01	2	Screw, Hex Head (M6 x 1.00 x 16)
11	406-0972-01	5	Latch, Door	27	406-0782	5	Key, Replacement (Fits Latch 406-0972-01)
12	821-6007-02	28	Screw, Hex Head (M8 x 1.25 x 20)				
13	155-3238	4	Cover, Exhaust				
14	526-0451	2	Washer, Flat (M8)				

Housing F172 Enclosure – F173 Enclosure with Single Front Duct



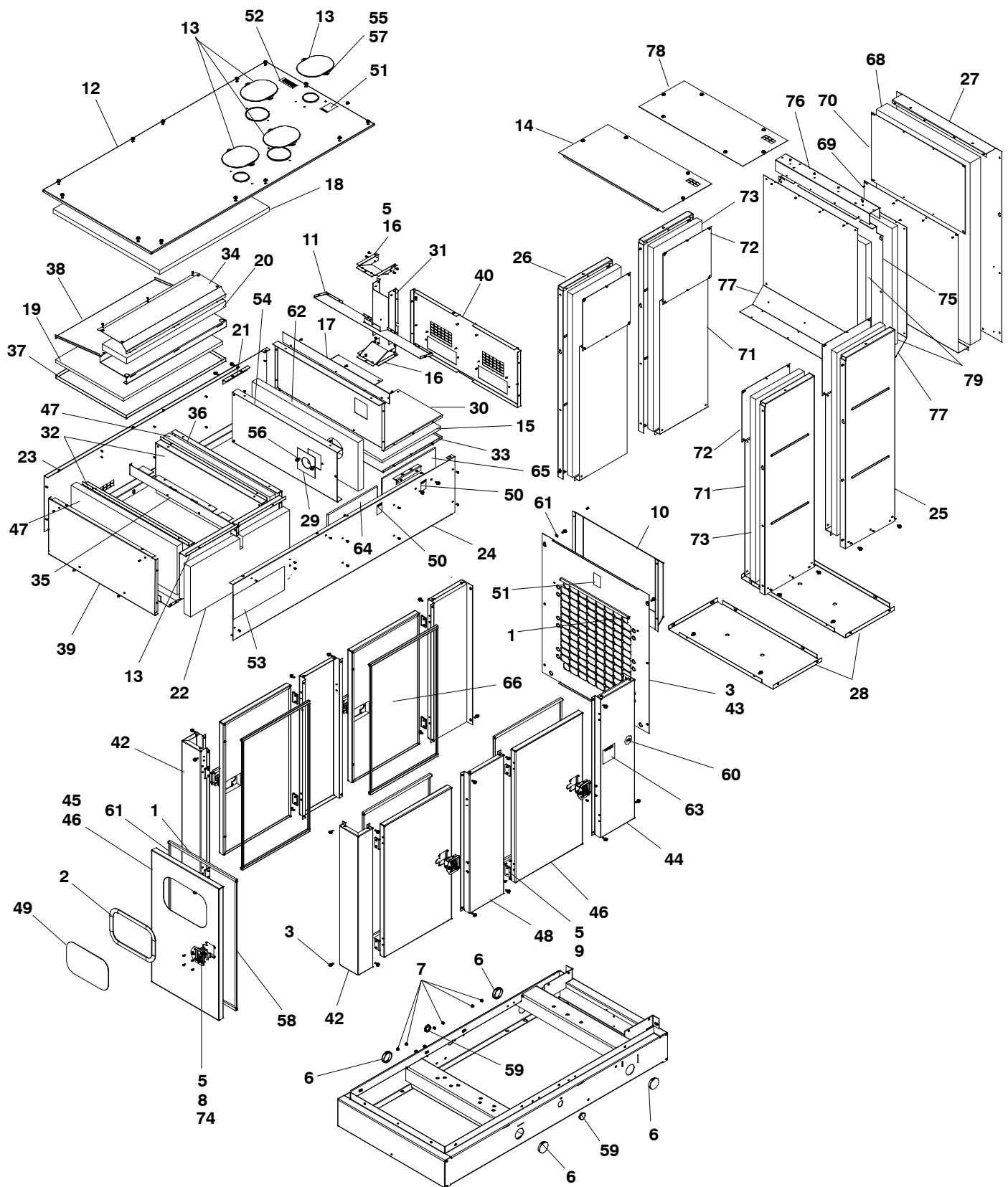
Housing

F172 Enclosure – F173 Enclosure with Single Front Duct

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	895-0384	11	Weather Seal Top & Bottom	39	405-5953	1	Extension, Rear
2	895-0363	4.2'	Weather Strip – Window	40	405-5952	1	Extension, Front
3			Screw, Hex Head (M8 x 1.25 x 20)	41	155-3238	4	Cover, Exhaust
	821-6007-02	47	F172 Housing	42	405-5916	2	Post, Corner – Housing
	821-6007-02	65	F173 Housing	43	405-5910	1	Panel, Front – Radiator Housing
4			Rivet (1/8")	44	405-5908	2	Panel, Side – Radiator Housing
	818-0237-01	72	F172 Housing	45	405-5903	1	Door, Housing W/Window Cutout
	818-0237-01	85	F173 Housing				
5	818-0231-02	105	Rivet (3/16")	46	405-5902	5	Door, Housing WO/Window
6	517-0322	6	Plug, Hole	47	405-5841	2	Fiberglass
7	517-0131	6	Plug, Hole	48	405-5745	2	Post, Housing – Center
8	406-0972-01	5	Latch, Door	49	319-2653	1	Window, Control (if equipped)
9	406-0831	10	Hinge	50	098-7451	3	Label, Caution
10	405-6035	1	Baffle, Air – Discharge	51	098-4730	2	Label, Caution
11	405-6068	1	Baffle, Recirculation – Muffler	52	098-5429	1	Label, Coolant Fill
12	405-6018	1	Roof	53	098-7902-05	3	Label, Logo
13	405-8311	1	Insulation, Retainer	54	405-8312	1	Insulation, Retainer
14	405-6010	1	* Cover, Discharge	55	821-6006-01	2	Screw, Hex Head (M6 x 1.0 x 16)
15	405-6005	1	Fiberglass – Muffler				Washer, Flat
16	405-6003	2	Box, Radiator Fill	56	526-0011	2	Nut, Captive – Floating
17	405-6029	1	Barrier, Air Flow	57	870-0504	2	Weather Seal – Side
18	405-6001-01	1	Fiberglass	58	895-0385	5	Plug
19	405-6000-03	1	Fiberglass	59	517-0138-07	2	Label, Prototype Tested
20	405-6000-02	1	Fiberglass	60	098-4500	2	Weather Seal
21	405-5998	2	Support, Muffler	61	895-0386	5	Fiberglass
22	405-5997	1	Fiberglass	62	405-6109	1	Label, Warning
23	405-5996	1	Extension, Side – RH	63	098-4732	2	Insulation, Foam
24	405-5995	1	Extension, Side – LH	64	128-0154-04	1	Insulation, Foam
25	405-5991-02	1	* Side, Discharge – LH	65	128-0252	2	Fiberglass
26	405-5991-01	1	* Side, Discharge – RH	66	405-5734	2	Washer, Flat (M8)
27	405-5990	1	* Discharge, Front	67	526-0451	4	* Fiberglass
28	405-5988	1	* Discharge, Bottom	68	405-6000-07	1	* Retainer, Insulation
29	405-5987	1	Barrier, Air	69	405-6013	1	* Retainer, Insulation
30	405-5966	1	Box, Muffler	70	405-6132	1	* Retainer, Insulation
31	405-6030	1	Fill Neck, Radiator	71	405-6014	2	* Fiberglass
32	405-8307	2	Insulation, Retainer	72	405-6044	2	Key, Replacement (Fits Latch 406-0972-01)
33	405-8306	1	Insulation, Retainer	73	405-6000-04	2	
34	405-8305	1	Insulation, Retainer	74	406-0782	5	
35	405-5957	2	Angle, Support				
36	405-5956	1	Duct, Support				
37	405-8304	1	Insulation, Retainer				
38	405-5954	1	Duct, Bottom – Inlet				

* – Parts used only on F173 Housing

Housing F173 Enclosure with Double Front Duct GGHF



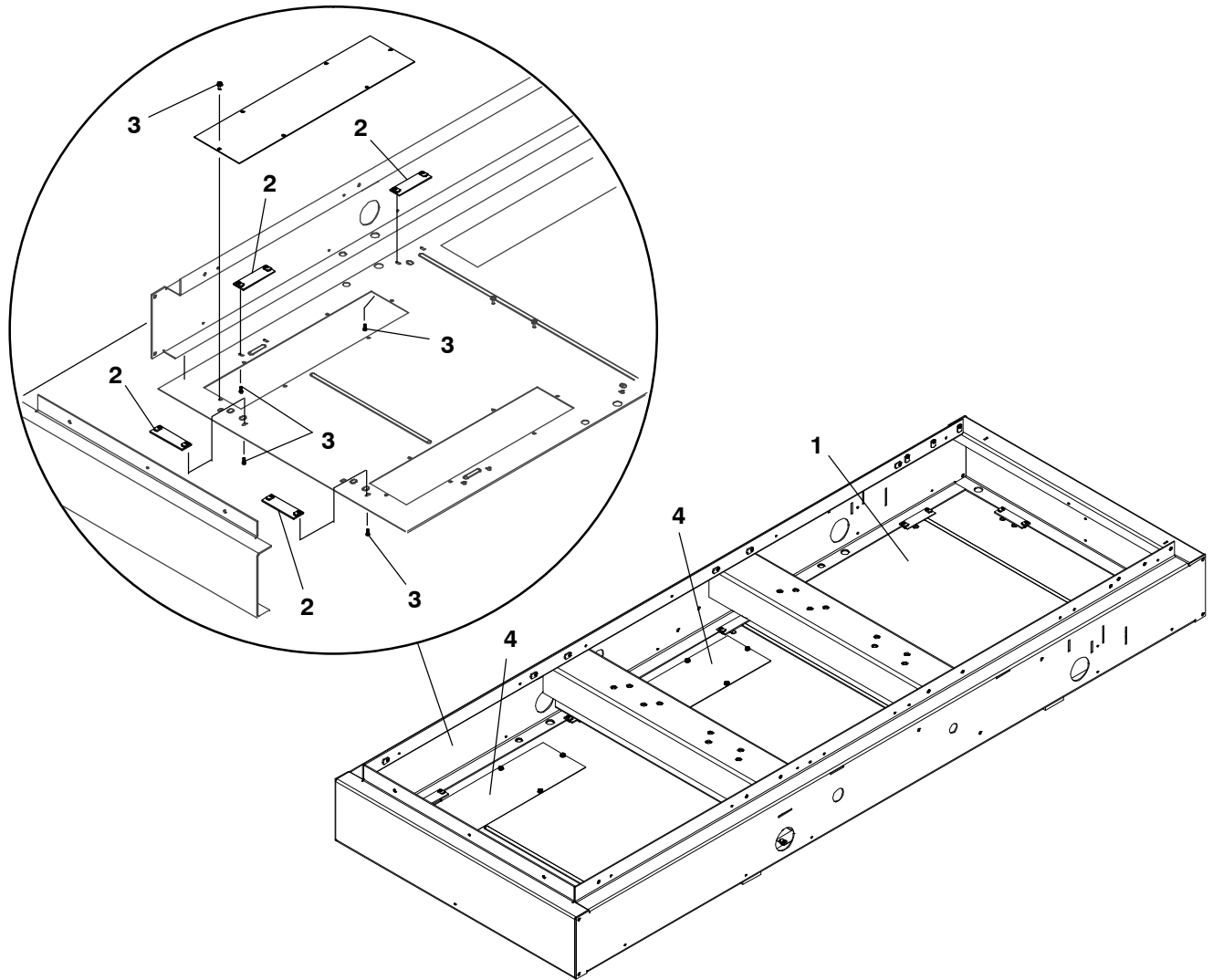
Housing

F173 Enclosure with Double Front Duct

GGHF

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	895-0384	11	Weather Seal Top & Bottom	42	405-5916	2	Post, Corner – Housing
2	895-0363	4.2'	Weather Strip – Window	43	405-5910	1	Panel, Front – Radiator Housing
3	821-6007-02	83	Screw, Hex Head (M8 x 1.25 x 20)	44	405-5908	2	Panel, Side – Radiator Housing
4	818-0237-01	118	Rivet (1/8")	45	405-5903	1	Door, Housing W/Window Cutout
5	818-0231-02	105	Rivet (3/16")	46	405-5902	5	Door, Housing WO/Window
6	517-0322	4	Plug, Hole	47	405-5841	2	Fiberglass
7	517-0131	6	Plug, Hole	48	405-5745	2	Post, Housing – Center
8	406-0972-01	5	Latch, Door	49	319-2653	1	Window, Control (if equipped)
9	406-0831	10	Hinge	50	098-7451	3	Label, Caution
10	405-6035	1	Baffle, Air – Discharge	51	098-4730	2	Label, Caution
11	405-6068	1	Baffle, Recirculation – Muffler	52	098-5429	1	Label, Coolant Fill
12	405-6018	1	Roof	53	098-7902-05	3	Label, Logo
13	405-8311	1	Cover, Perforated	54	405-8312	1	Insulation, Retainer
14	405-6010	1	Cover, Discharge	55	821-6006-01	2	Screw, Hex Head (M6 x 1.0 x 16)
15	405-6005	1	Fiberglass – Muffler	56	526-0011	2	Washer, Flat
16	405-6003	2	Box, Radiator Fill	57	870-0504	2	Nut, Captive – Floating
17	405-6029	1	Barrier, Air Flow	58	895-0385	5	Weather Seal – Side
18	405-6001-01	1	Fiberglass	59	517-0138-07	2	Plug
19	405-6000-03	1	Fiberglass	60	098-4500	2	Label, Prototype Tested
20	405-6000-02	1	Fiberglass	61	895-0386	5	Weather Seal
21	405-5998	2	Support, Muffler	62	405-6109	1	Fiberglass
22	405-5997	1	Fiberglass	63	098-4732	2	Label, Warning
23	405-5996	1	Extension, Side – RH	64	128-0154-04	1	Insulation, Foam
24	405-5995	1	Extension, Side – LH	65	128-0252	2	Insulation, Foam
25	405-5991-02	2	Side, Discharge – LH	66	405-5734	2	Fiberglass
26	405-5991-01	2	Side, Discharge – RH	67	526-0451	4	Washer, Flat (M8)
27	405-5990	1	Discharge, Front	68	405-6000-07	1	Fiberglass
28	405-8731-02	2	Panel, Enclosure	69	405-6013	1	Retainer, Insulation
29	405-5987	1	Barrier, Air	70	405-8314	1	Insulation, Retainer
30	405-5966	1	Box, Muffler	71	405-8310	4	Insulation, Retainer
31	405-6030	1	Fill Neck, Radiator	72	405-8313	4	Insulation, Retainer
32	405-8307	2	Insulation, Retainer	73	405-6000-04	4	Fiberglass
33	405-8306	1	Insulation, Retainer	74	406-0782	5	Key, Replacement (Fits Latch 406-0972-01)
34	405-8305	1	Insulation, Retainer	75	405-5992	1	Panel, Center
35	405-5957	2	Angle, Support	76	405-5993	1	Cover, Duct
36	405-5956	1	Duct, Support	77	405-8308	2	Insulation, Retainer
37	405-8304	1	Insulation, Retainer	78	405-5989	1	Cover, Air Discharge Box – Top
38	405-5954	1	Duct, Bottom – Inlet	79	405-6000-01	2	Fiberglass
39	405-5953	1	Extension, Rear				
40	405-5952	1	Extension, Front				
41	155-3238	4	Cover, Exhaust				

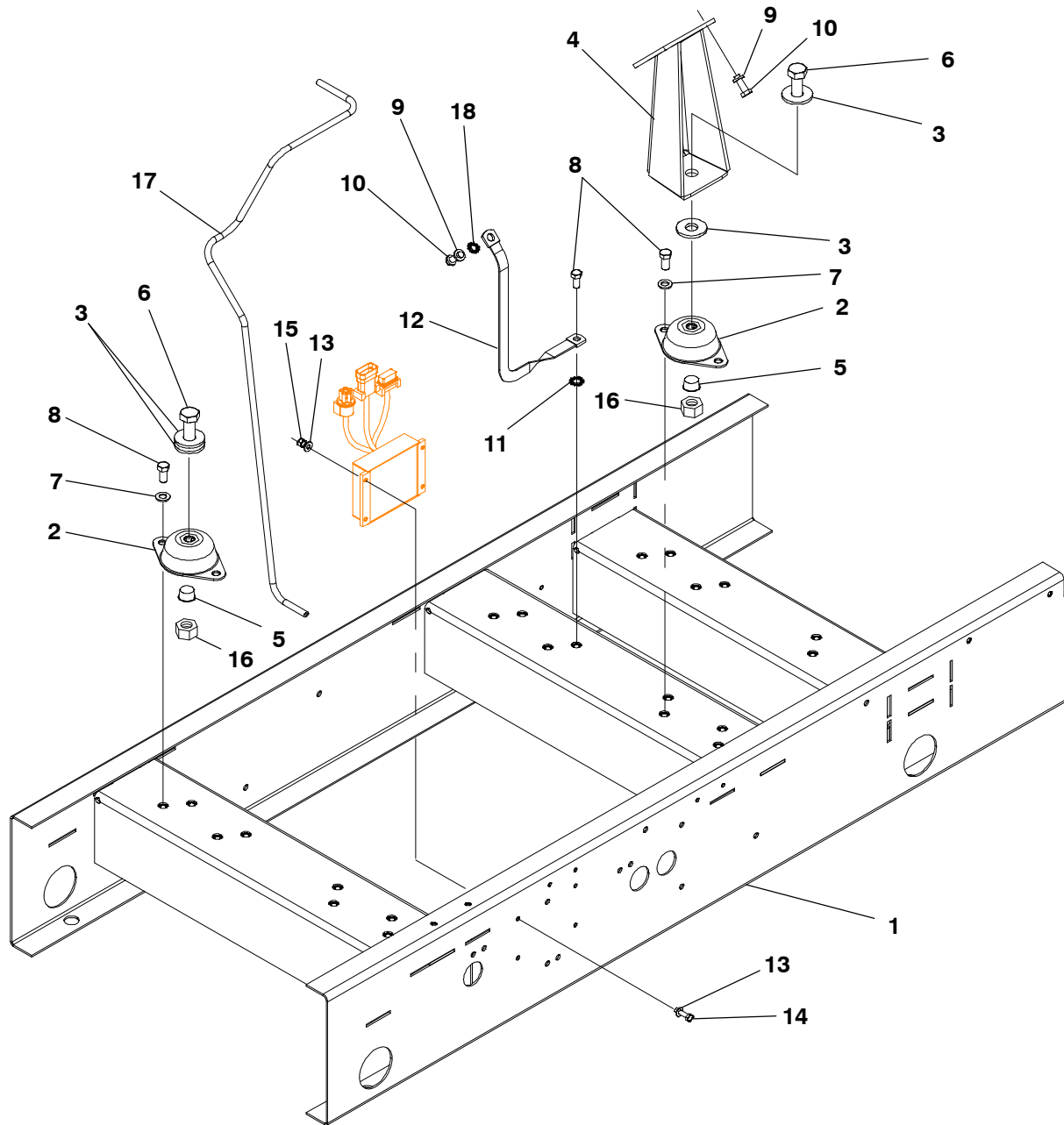
Skid Pan



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

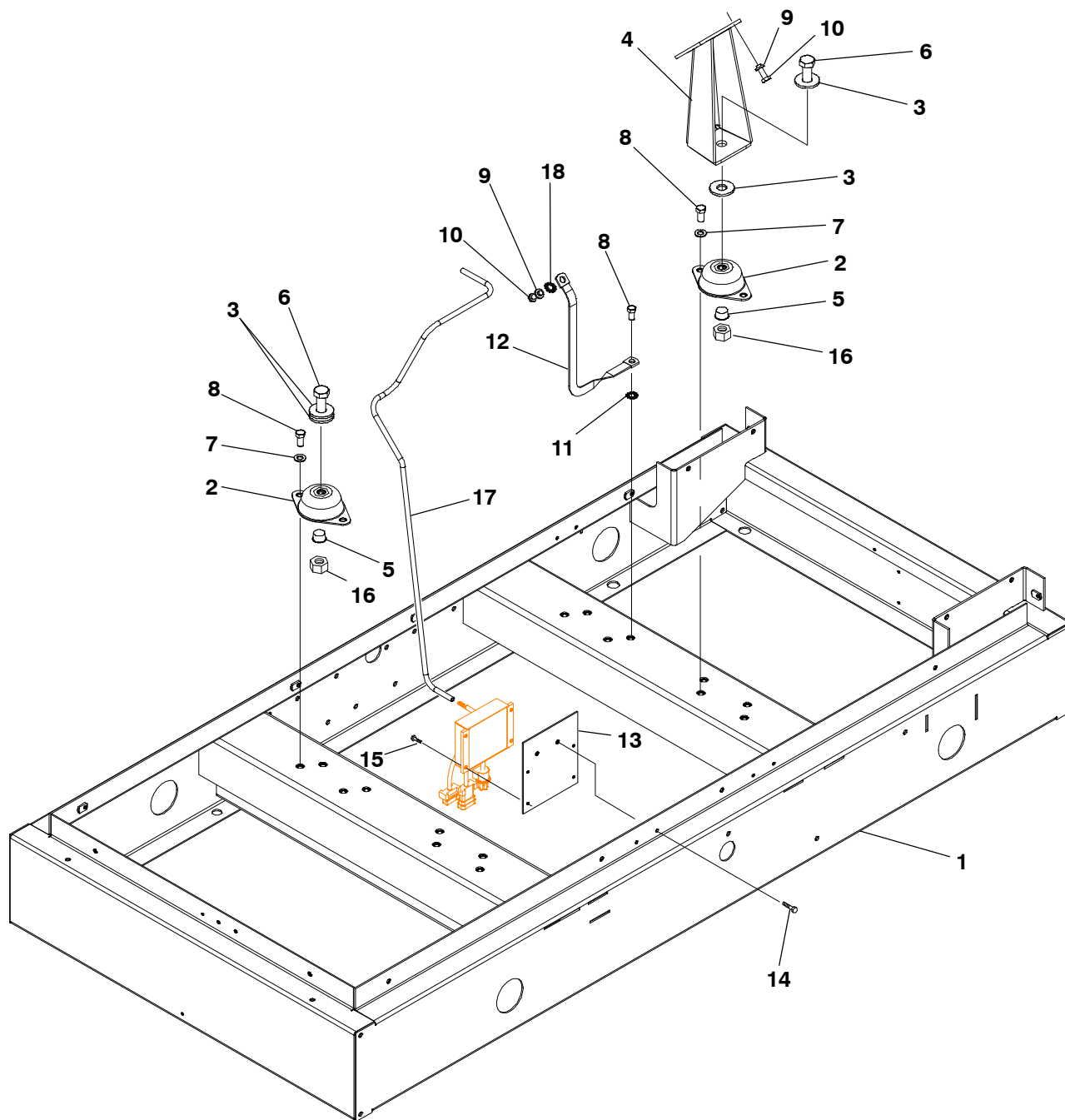
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	403-4116	3	Cover, Stub-Up

**Skid
Basic
Spec A-C**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4492-02	1	Skid	10	800-2530-03	9	Screw, Cap – Hex Head (M10 x 1.5 x 25)
2	402-0779-05	4	Isolator, Vibration	11	856-0013	1	Washer, Lock – W/EIT (M12)
3	526-0238-01	8	Washer, Flat (3/4)	12	337-0090-01	1	Strap, Electrical
4	403-7073-02	2	Bracket, Mounting – Engine	13	526-0008	8	Washer, Flat (#10)
5	517-0094	4	Plug, Hole	14	800-2010	4	Screw, Hex Head (M5 x 0.8 x 20)
6	800-0607	4	Screw, Cap – Hex Head (3/4-10 x 2)	15	860-2006	4	Nut, Hex (M5)
7	526-0433	8	Washer, Hardened	16	862-0044	4	Nut, Hex – Heavy (3/4-10)
8	800-2543-02	9	Screw, Cap – Hex Head (M12 x 25)	17	503-1338	-	Hose, Vacuum – Bulk (Order by the Foot – 4 Feet Required)
9	526-0174	9	Washer, Flat	18	856-0010	1	Washer – EIT (M10)

**Skid
Housing Compatible
Spec A-C**

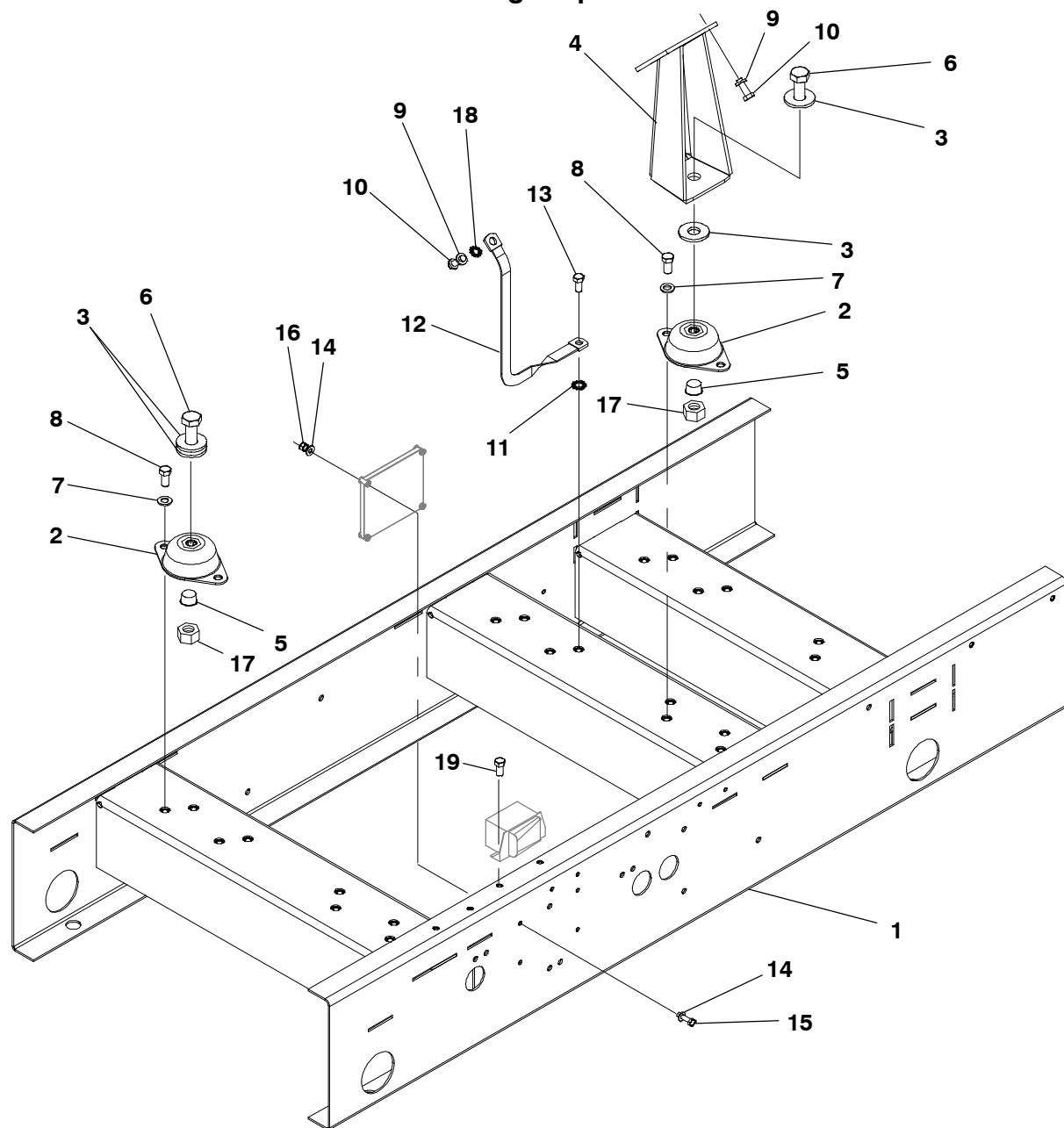


**Skid
Housing Compatible
Spec A-C**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4481-02	1	Skid	11	856-0013	1	Washer, Lock – W/EIT (M12)
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	503-1338	–	Hose, Vacuum – Bulk (Order by the Foot – 4 Feet Required)
8	800-2543-02	9	Screw, Cap – Hex Head (M12 x 25)	18	856-0010	1	Washer – EIT (M10)
9	526-0174	9	Washer, Flat				
10	800-2530-03	9	Screw, Cap – Hex Head (M10 x 1.5 x 25)				

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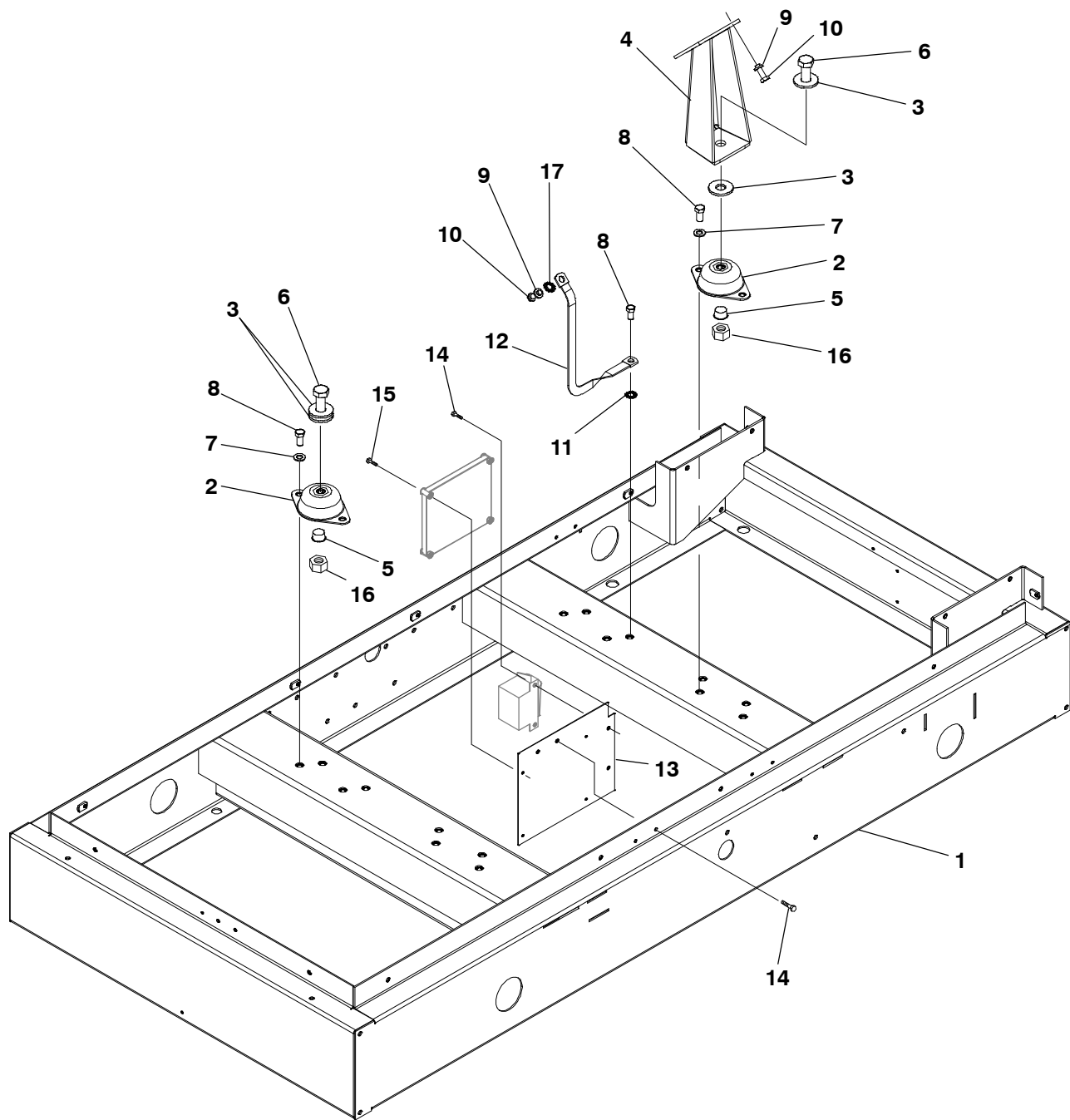
**Skid
Basic
Begin Spec D**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4492-02	1	Skid	10	800-2530-03	9	Screw, Cap – Hex Head (M10 x 1.5 x 25)
2	402-0779-05	4	Isolator, Vibration	11	856-0013	1	Washer, Lock – W/EIT (M12)
3	526-0238-01	8	Washer, Flat (3/4)	12	337-0090-01	1	Strap, Electrical
4	403-7073-02	2	Bracket, Mounting – Engine	13	800-3017-20	1	Screw, Cap – Hex Head (M12 x 1.75 x 25)
5	517-0094	4	Plug, Hole	14	526-0008	8	Washer, Flat (#10)
6	800-0607	4	Screw, Cap – Hex Head (3/4-10 x 2)	15	800-2014	4	Screw, Hex Head (M5 x 0.8 x 40)
7	526-0433	8	Washer, Hardened	16	860-2006	4	Nut, Hex (M5)
8	800-2543-02	8	Screw, Cap – Hex Head (M12 x 25)	17	862-0044	4	Nut, Hex – Heavy (3/4-10)
9	526-0174	9	Washer, Flat				

18	856-0010	1	Washer – EIT (M10)
19	821-6002-03	2	Screw, Hex Head (M6 x 1 x 16)

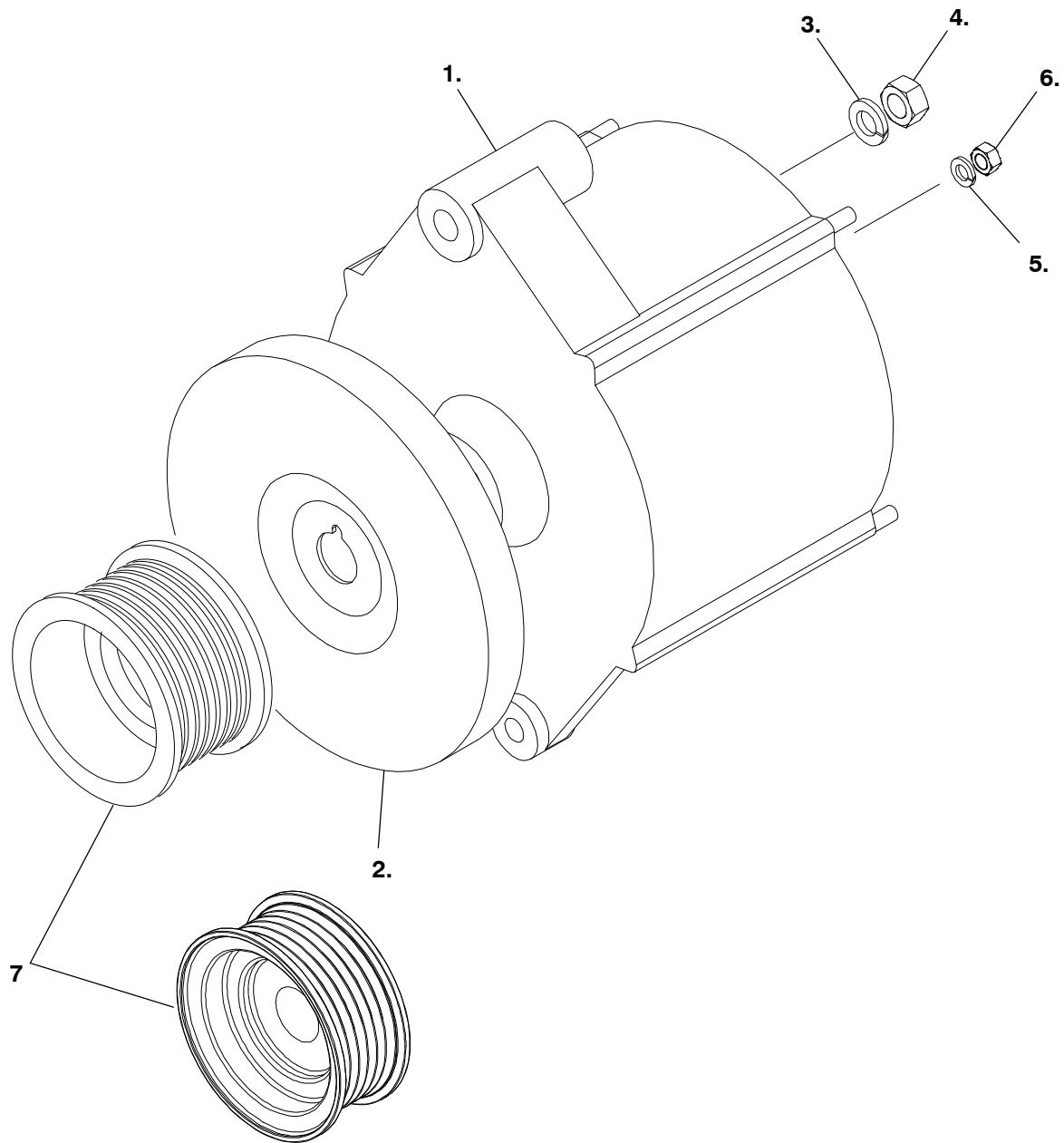
**Skid
Housing Compatible
Begin Spec D**



**Skid
Housing Compatible
Begin Spec D**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4481-02	1	Skid	11	856-0013	1	Washer, Lock – W/EIT (M12)
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 – EIT (M10)
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)				

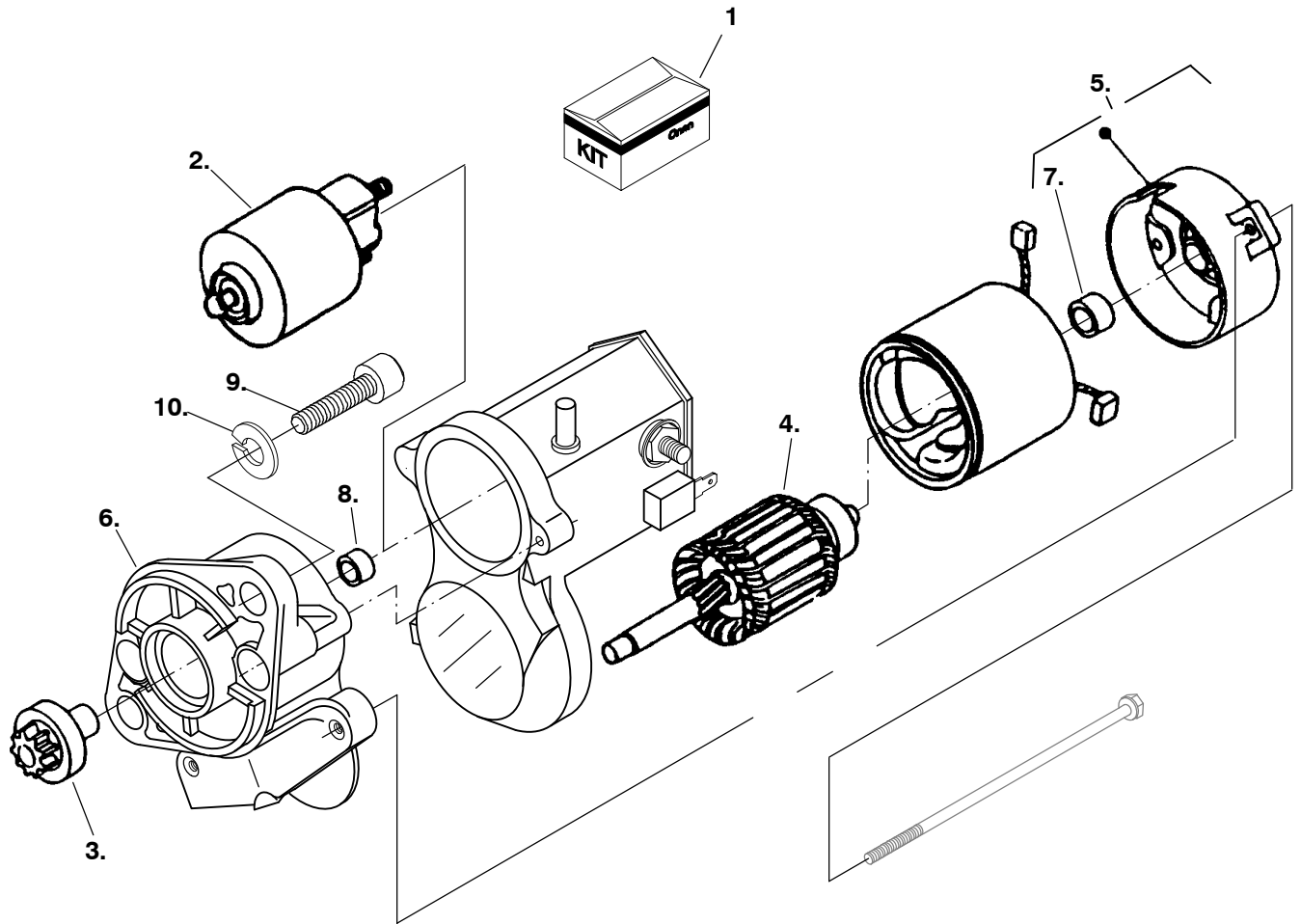
Alternator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	191-2326-01	1	Alternator
2.	191-2330	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

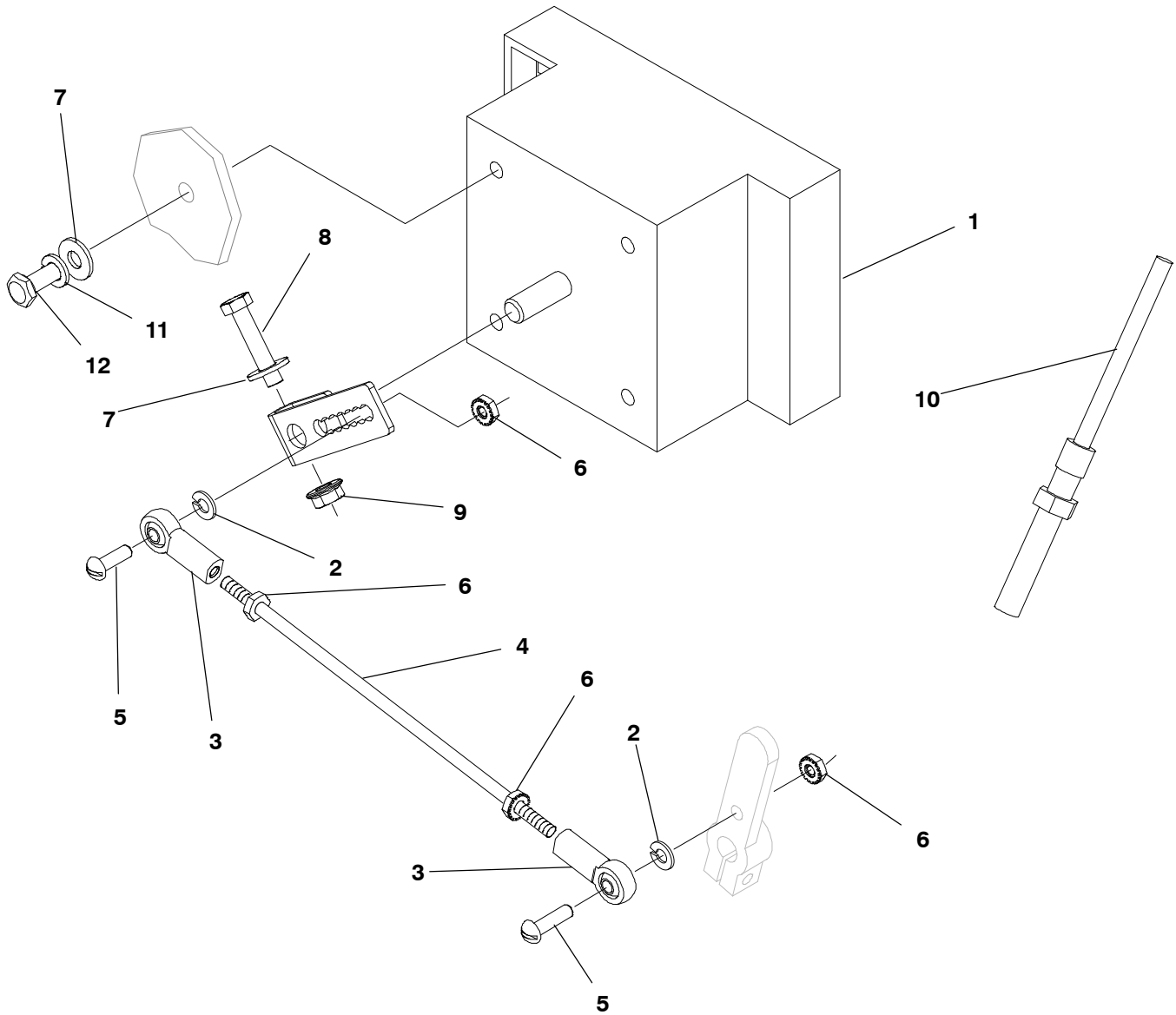
Starter Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-2213	1	Starter (1.4kW)
1.	191-2215	1	Kit, Starter Brush
2.	191-2216	1	Switch
3.	191-2217	1	Clutch
4.	191-2218	1	Armature
5.	191-2219	1	Frame, Commutator End

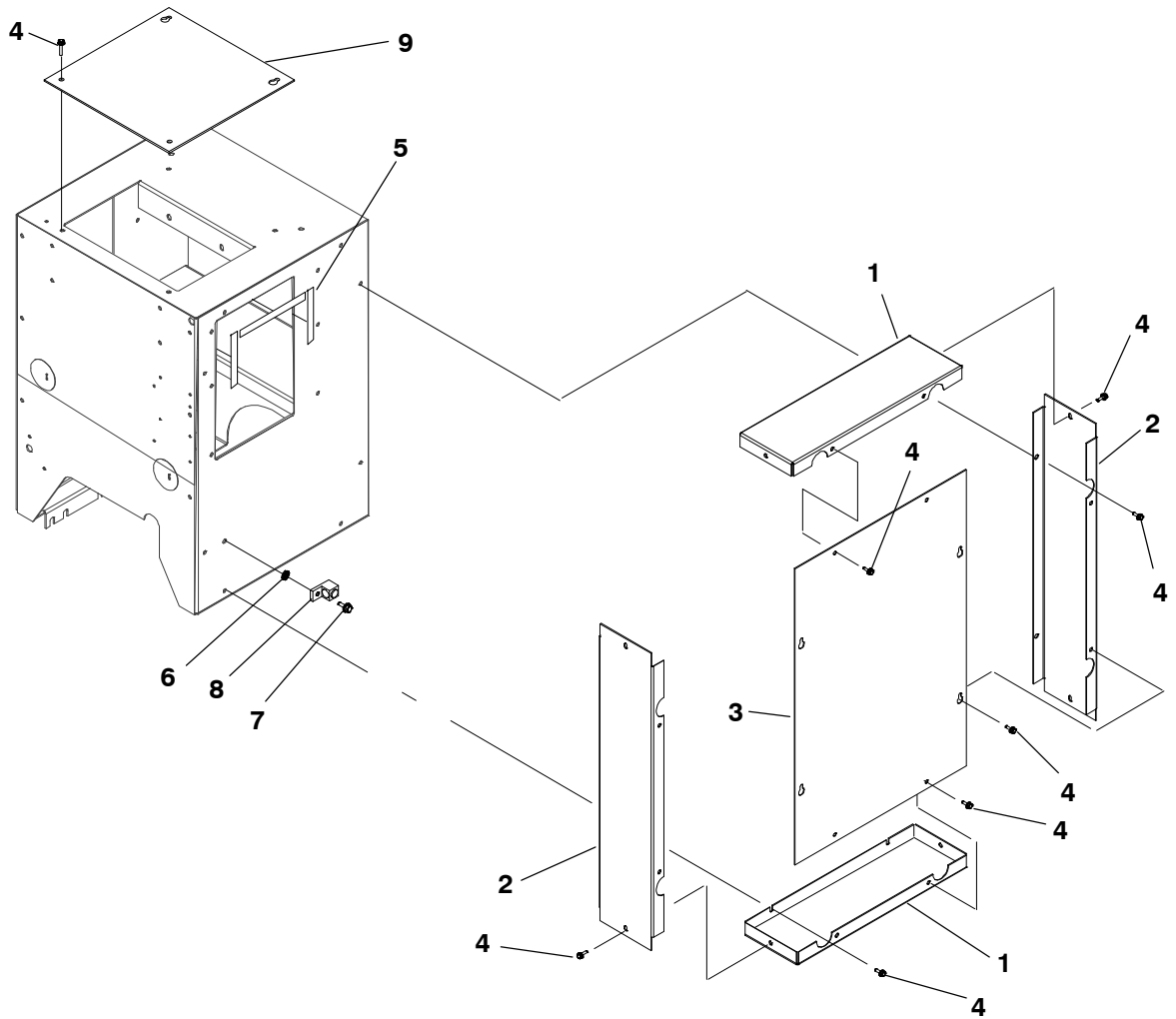
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6.	191-2220	1	Housing
7.	191-2221	1	Bearing, Commutator End
8.	191-2222	1	Bearing, Pinion End
9.	800-2088	2	Screw, Cap - Socket Head (M10 x 1.5 x 35mm)
10.	850-2010	2	Washer, Lock (M10)

Governor Spec A-B



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2692-01	1	Governor	8	800-2036	1	Screw, Cap - Hex Head (M6 x 1 x 30)
2	850-0030	2	Washer, Lock (3/16)	9	870-2054	1	Nut, Hex - Self-Locking - Flange Head
3	151-0769	2	Swivel, Governor Rod End	10	150-2651	1	Pickup, Magnetic
4	150-2697	1	Rod, Governor	11	850-0040	4	Washer, Lock - Split (1/4)
5	813-0103	2	Screw, Machine - Slotted - Round Head (#10-32 x 0.75)	12	800-0602	4	Screw, Cap - Hex Head (1/4-28 x .75)
6	870-0131	4	Nut, Hex - W/ET				
7	526-0018	5	Washer, Flat (1/4)				

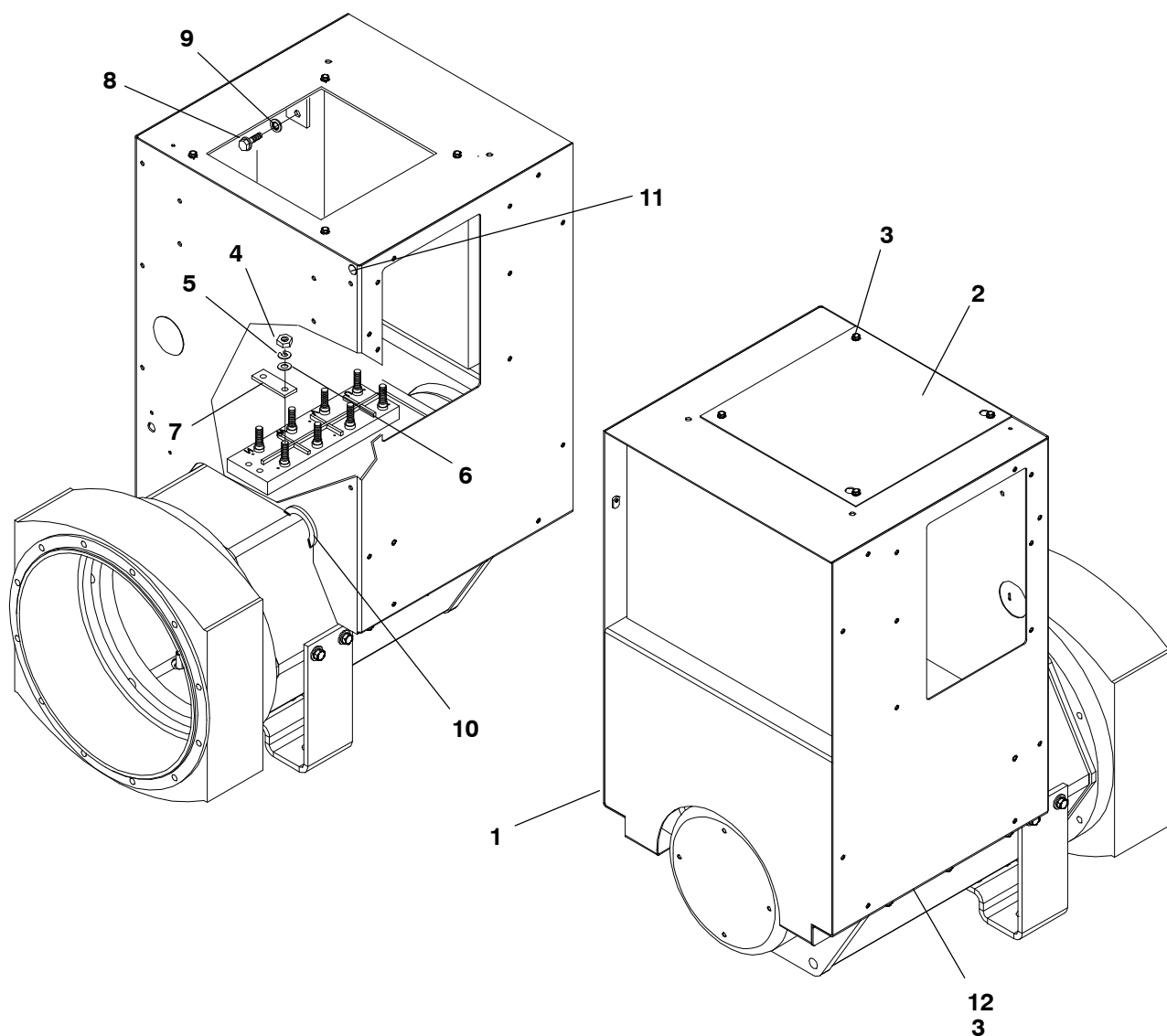
Entrance Box



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

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

Control Housing

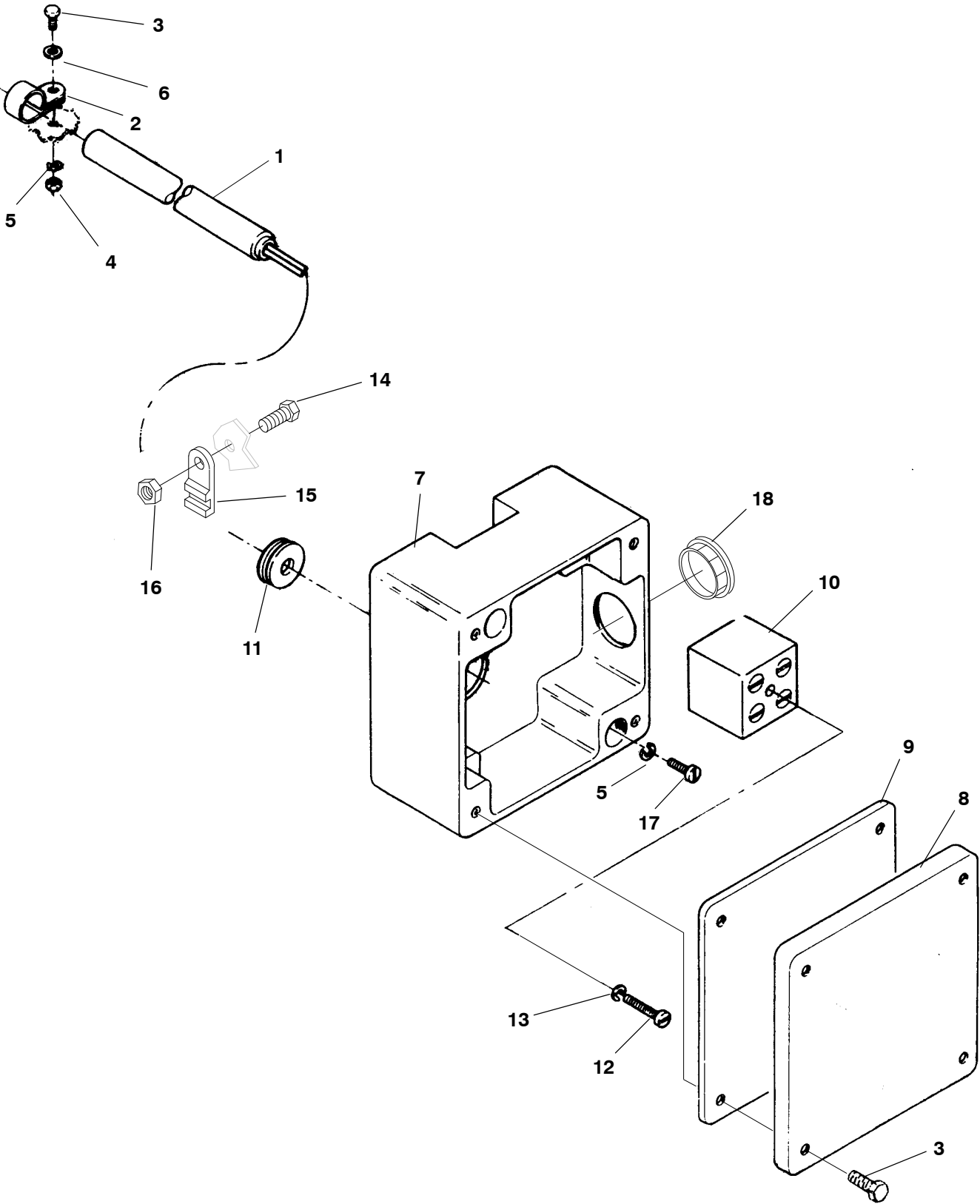


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3208	1	Panel, Housing – Control Sets With UCD22 Generator
	319-2967	1	Sets With UC27 Generator
2	319-2996	1	Cover, Housing – Control
3			Screw, Hex Head (M6 x 16)
	821-6002-03	4	Sets With UC27 Generator
	821-6002-03	9	Sets With UCD22 Generator
4	860-2009	8	Nut, Hex (M10 x 1.5)
5	850-2010	8	Washer, Lock (M10)
6	526-2120	8	Washer, Flat (M10)
7	332-2987	4	Link, Terminal

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8			Screw, Locking – Hex Head (5/16–18 x .50)
	821-0014	4	Sets With UC27 Generator
	821-5003-01	4	Sets With UCD22 Generator
9	856-0008	1	Washer, Lock – ET (5/16)
10	508-0305-02 .33'		Edging
11	517-0135	1	Plug, Hole
12	319-3207	1	Bracket, Control Mounting – Sets With UCD22 Generator

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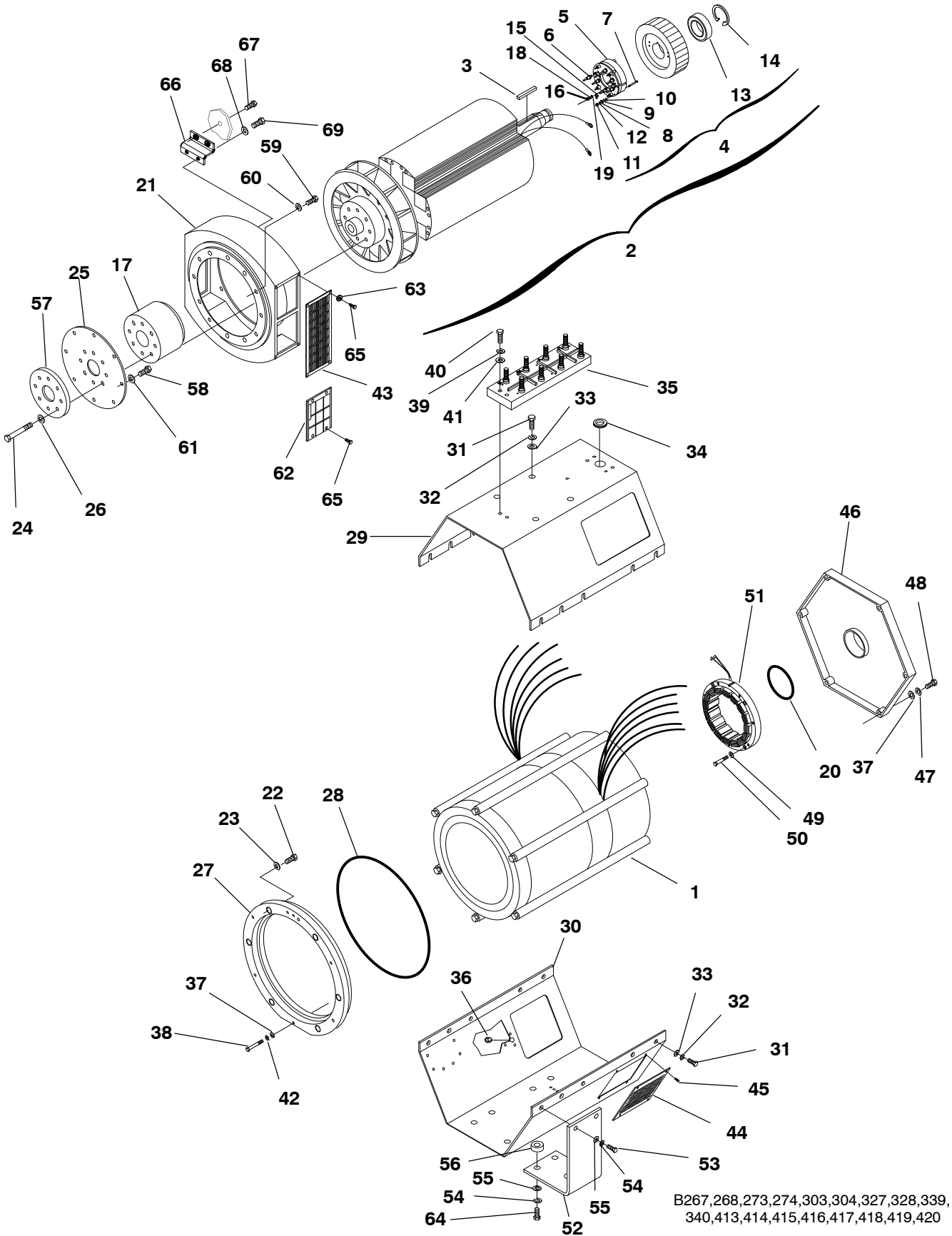
Generator Heater



Generator Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cartridge, Heater (100 Watt)	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



B267,268,273,274,303,304,327,328,339,
340,413,414,415,416,417,418,419,420

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)	23			Washer, Lock – Spring UC27 Generator
2			Rotor Assembly, Generator (Includes Parts Marked *)	850-0114-55	6		M10 UCD22 Generator
			UCD22 Generator	850-0114-54	6		M8
201-3557-03	1		180mm Stack Length	24			Screw
201-3557-04	1		240mm Stack Length	805-2021-06	8		UCD22 Generator – Hex Head (M12 x 45mm)
201-3557-05	1		300mm Stack Length	720-1119	8		UC27 Generator – Cap – Hex Head (M16 x 40mm)
			UC27 Generator				Disc, Drive – Generator
201-3497-01	1		165mm Stack Length	25			UCD22 Generator
201-3497-02	1		190mm Stack Length	232-3959-01	3		UC27 Generator
3			*Key, Exciter Rotor	26	526-0259	8	Washer, Flat (5/8") Hardened – UC27 Generator
			UCD22 Generator	27			Adapter, Generator Stator
515-0299-04			180, 240mm Stack Length	231-0318	1		UCD22 Generator
515-0299-05			300mm Stack Length	231-0319	1		UC27 Generator
515-0297-01			UC27 Generator	28			Seal, Edging – Bulk (Order By The Foot)
201-3434-02			*Rotor Assembly, Exciter (Includes Parts Marked #)	508-0139	-		UCD22 Generator (2 Feet Required)
5			*#Rectifier Assembly (Includes Parts Marked +)	508-0139	-		UC27 Generator (3 Feet Required)
357-0091	1		Forward (With Positive Diode)	29			Cover, Stator – Top
357-0092	1		Reverse (With Negative Diode)				UCD22 Generator
6			*#+Diode	234-0936-02	1		180, 240mm Stack Length
358-0135-01	3		Positive	234-0936-03	1		300mm Stack Length
358-0135-02	3		Negative				UC27 Generator
7	800-3009	6	*#+Screw, Cap – Hex Head (M4 x 35mm) (CR1,2,3,4,5,6)	234-0937-01	1		165, 190mm Stack Length
8	860-2005	6	*#+Nut, Hex (M4)	30			Cover, Stator – Bottom
9	850-2004	6	*#+Washer, Lock – Spring (M4)				UCD22 Generator
10	526-2050	6	*#+Washer, Flat (M4)	232-3819-02	1		180, 240mm Stack Length
11	870-2064-01	6	*#Nut, Locking – Nylon (M4)	232-3819-03	1		300mm Stack Length
12	526-2050	6	*#Washer, Flat (M4)				UC27 Generator
13			*Bearing, Ball	232-3820-01	1		165, 190mm Stack Length
510-0165	1		UCD22 Generator	31			Screw, Cap – Hex Head
510-0164	1		UC27 Generator	800-3017-37	10		UCD22 Generator (M10 x 25mm)
14			*Ring, Retaining	800-3017-54	10		UC27 Generator (M12 x 30mm)
518-0122	1		UCD22 Generator				
518-0083	1		UC27 Generator				
15	304-0807	1	*Varistor				
16	860-2006	2	*Nut, Hex (M5)				
17	232-3695	1	*Hub, Drive – UC27 Generator				
18	850-2005	2	*Washer, Lock – Spring (M5)				
19	526-2060	2	*Washer, Flat (M5)				
20			O-Ring				
509-0266-01	1		UCD22 Generator				
509-0266-02	1		UC27 Generator				
21			Adapter, Generator				
231-0383	1		UCD22 Generator				
231-0317	1		UC27 Generator				
22			Screw, Cap – Hex Head – UC27 Generator				
800-3017-42	5		M10 x 50mm				
800-3017-44	1		M10 x 60mm (12 O'Clock Position)				
			UCD22 Generator				
800-3017-20	6		M8 x 25mm				

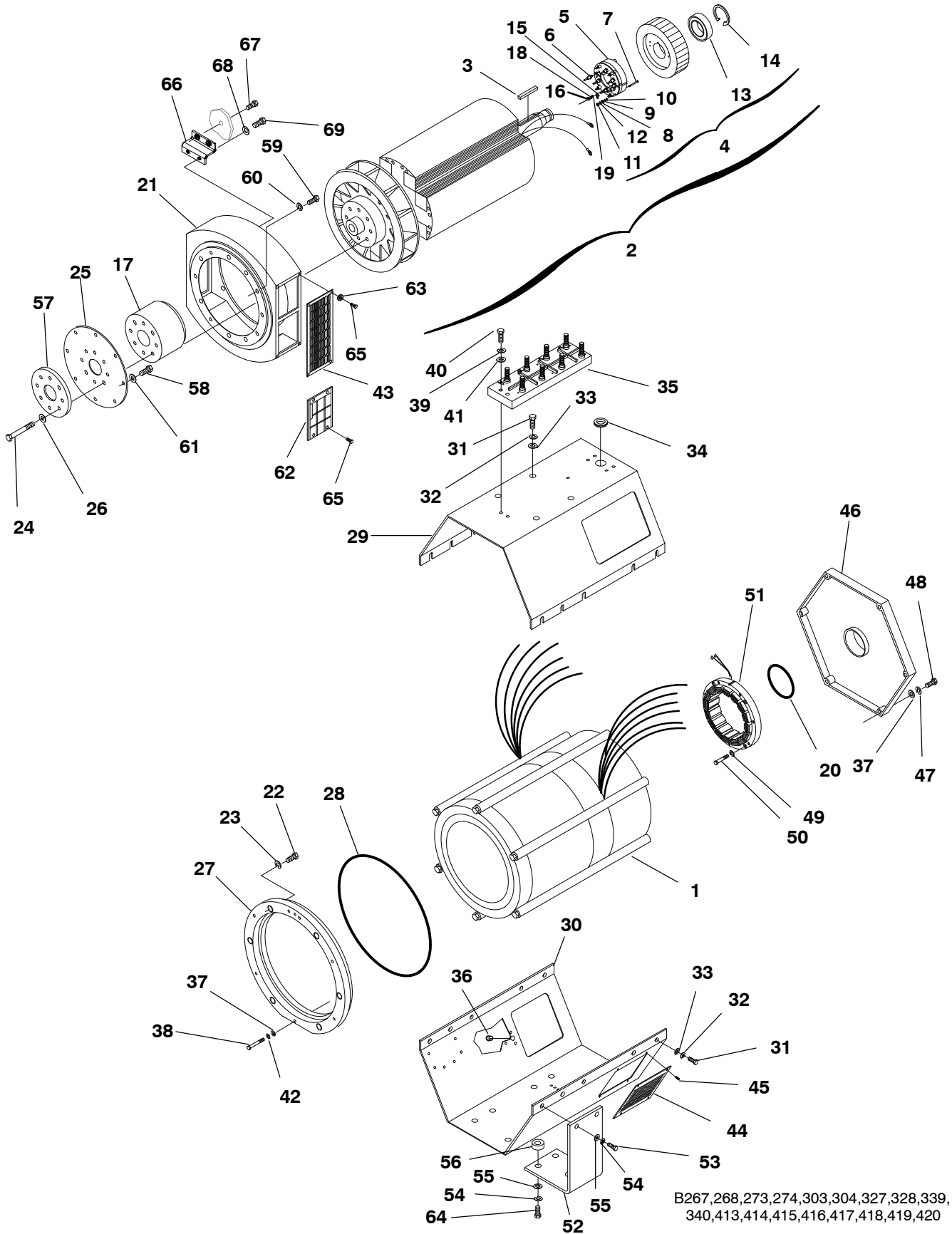
* – Parts Included in Generator Rotor Assemblies

– Parts Included in Exciter Rotor Assemblies

+ – Parts Included in Rectifier Assemblies

Continued...

Generator



B267,268,273,274,303,304,327,328,339,
340,413,414,415,416,417,418,419,420

Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				53			Screw, Cap – Hex Head
				800–3017–39	4		UCD22 Generator (M10 x 35mm)
32			Washer, Lock – Spring	800–2543–05	4		UC27 Generator (M12 x 40mm)
	850–0114–55	10	UCD22 Generator (M10)				
	850–0114–56	10	UC27 Generator (M12)	54			Washer, Lock – Spring
33			Washer, Flat	850–0114–55	8		UCD22 Generator (M10)
	526–0399–62	10	UCD22 Generator (M10)	850–0117	8		UC27 Generator (M12)
	526–0399–64	10	UC27 Generator (M12)	55			Washer, Flat
34	508–1057	1	Grommet	526–0423	8		UCD22 Generator (M10)
35	232–3421	1	Block, Terminal	526–0433	8		UC27 Generator (M12)
36	517–0135	1	Plug, Hole	56			Spacer, Mounting Foot
37			Washer	232–3730–03	4		UCD22 Generator
	232–3441	12	UCD22 Generator – Special	232–3730–04	4		UC27 Generator
	526–0423	12	UC27 Generator – Flat (13/32" ID x 1–1/4" OD x 1/4" Thk)	57	232–3960	1	Plate, Pressure – UCD22 Generator
38	800–3017–38	6	Screw, Cap – Hex Head (M10 x 30mm) – UC27 Generator	58	805–0015	8	Bolt, Place (3/8–16 x .75")
39	850–2008	3	Washer, Lock – Spring – UC27 Generator (M8)	59	800–2087	10	Screw, Cap – Hex Head UCD22 Generator (M10 x 1.5 x 30)
40	800–2060	3	Screw, Cap – Hex Head (M8 x 35mm)		800–2088	12	UC27 Generator (M10 x 35mm)
41	526–2100	3	Washer, Flat (M8)	60	850–2010	12	Washer, Lock – Spring (M10)
42	850–0114–55	6	Washer, Lock – Spring (M10)	61	526–0174	8	Washer, Flat (3/8")
43			Guard, Fan – Generator	62	234–0981	2	Guard, Fan – Generator – Lower – UCD22 Generator
	234–0990	2	UCD22 Generator – Upper	63	526–0399–11	8	Washer, Flat – UCD22 Generator (#10)
	234–0867	2	UC27 Generator	64			Screw, Cap – Hex Head
44			Screen, Air Inlet	800–3017–41	4		UCD22 Generator (M10 x 45mm)
	234–0878	2	UCD22 Generator	800–2543–05	4		UC27 Generator (M12 x 40mm)
	234–0879	2	UC27 Generator	65			Screw, Self–Locking – Hex Washer Head
45	821–6001–02	8	Screw, Self–Locking – Hex Washer Head (M5 x 12mm)	821–6001–02	16		UCD22 Generator (M5 x 12mm)
46			Bell, End	821–6001–01	8		UC27 Generator (M5 x 10mm)
	211–0422	1	UCD22 Generator	66	148–1172–02	1	Bracket, Fuel System
	211–0423	1	UC27 Generator	67	821–6003–03	2	Screw, Head (M8 x 1.25 x 25)
47			Washer, Lock – Spring	68	526–0174	2	Washer, Flat (3.4)
	850–0114–54	6	UCD22 Generator (M8)	69	800–2086	2	Screw, Cap – Hex Head (M10 x 1.5 x 25)
	850–0114–55	6	UC27 Generator (M10)				
48			Screw, Cap – Hex Head				
	800–3017–20	6	UCD22 Generator (M8 x 25mm)				
	800–3017–38	6	UC27 Generator (M10 x 30mm)				
49	850–2006	4	Washer, Lock – Spring (M6)				
50	800–2042	4	Screw, Cap – Hex Head (M6 x 60)				
51	220–4293–05	1	Stator, Exciter				
52			Bracket, Mounting – Generator Foot				
	232–3940	2	UCD22 Generator				
	232–3925	2	UC27 Generator				

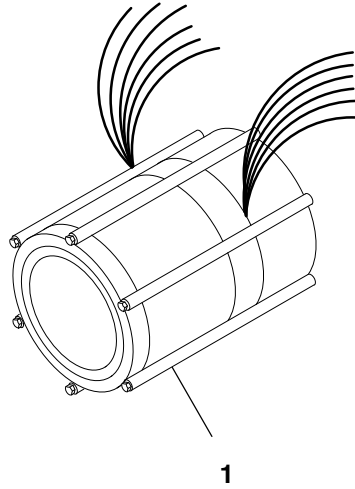
* – Parts Included in Generator Rotor Assemblies

– Parts Included in Exciter Rotor Assemblies

+ – Parts Included in Rectifier Assemblies

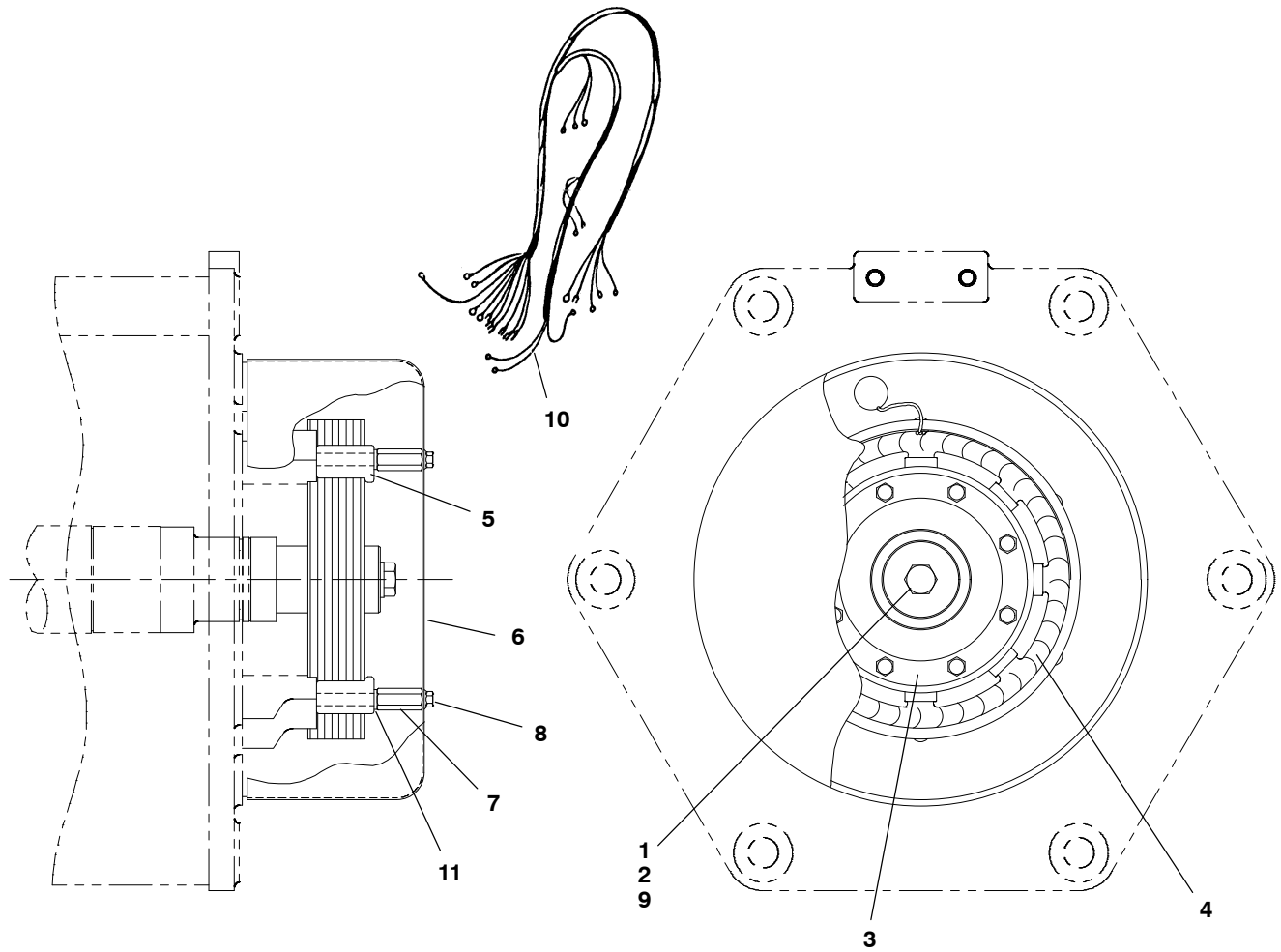
NOTE: If the first position of the alternator serial number is M, the replacements for the rotor and stator are no longer available. Please contact the factory Technical Support for more information.

Generator Stator



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

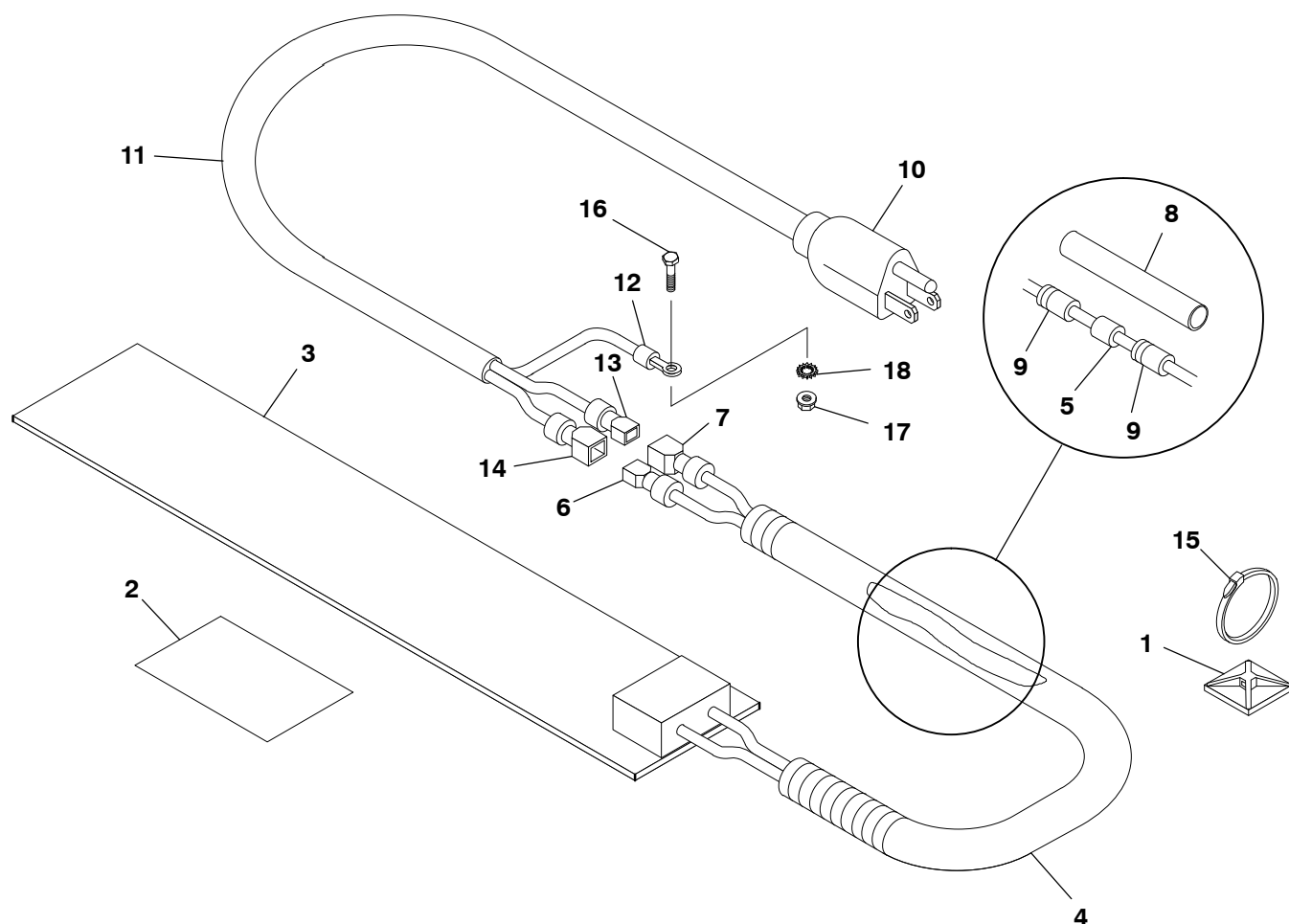
Permanent Magnet Generator (PMG)



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, SEMS – Hex Head (M5 x 0.8 x 10)
9	850-2010	1	Washer, Lock (M10)
10	338-3011	1	Harness, Wiring – PMG
11	850-2006	4	Washer, Lock (M6)

Control Heater



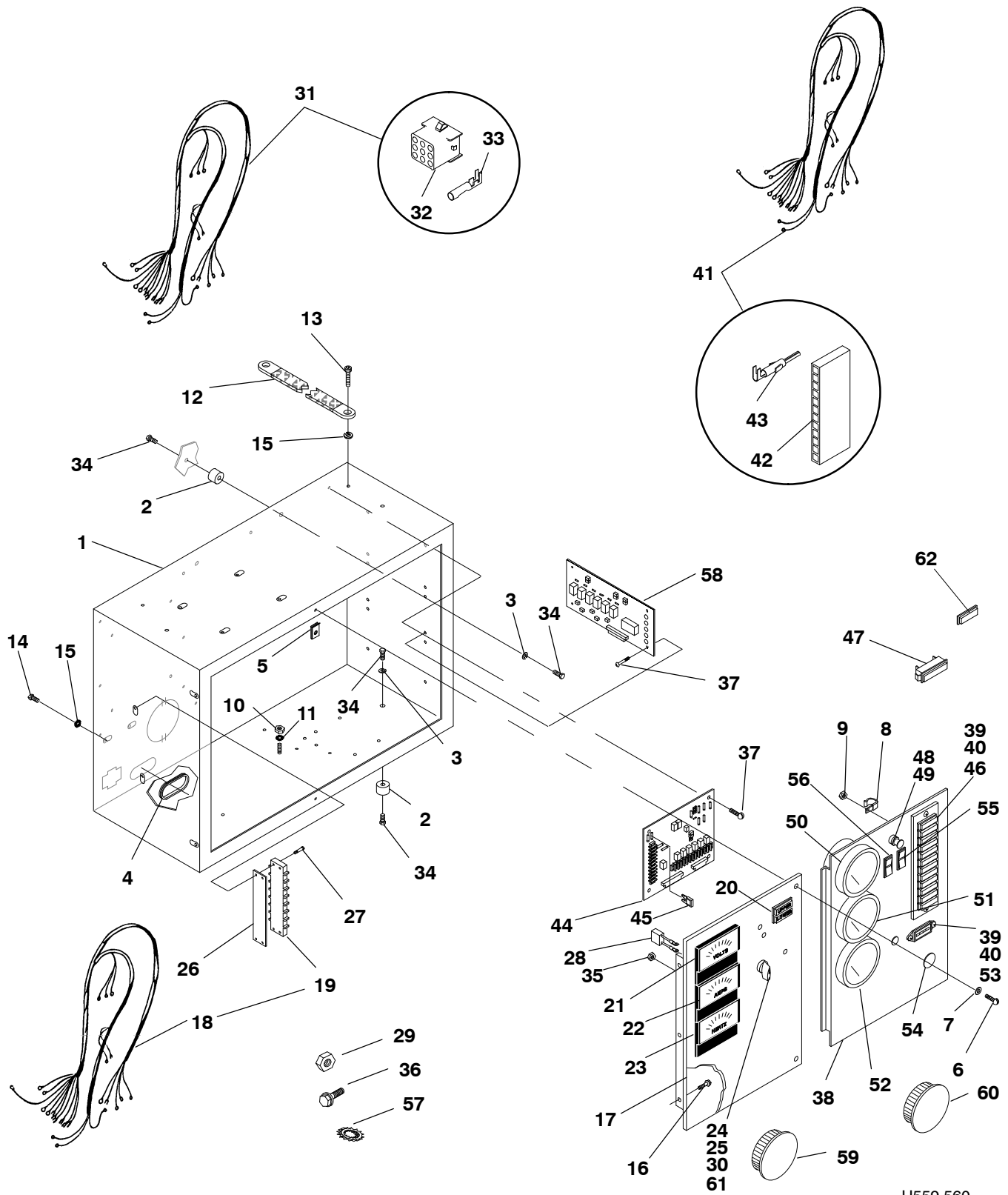
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2420	2	Mount, Tie - Cable
2	098-6195	1	Label, Caution
3			Heater, Control
	300-4515-01	1	120 Volt
	300-4515-02	1	240 Volt
4	898-1195-01 A/R		Sleeving, Convoluted
5	357-0114	1	Rectifier, Power
6	332-1992	1	Terminal, Receptical
7	332-2430	1	Terminal, Tab
8	898-0860	A/R	Tubing, Heat Shrink
9	332-1789	2	Splice, Window (18 Gauge)
10	335-0173	1	Cable, Heater - Control (Includes Parts Marked *)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	335-0110	1	* Cable
12	332-2697	1	* Terminal, Ring
13	332-1992	1	* Terminal, Receptical
14	332-2430	1	* Terminal, Tab
15	332-0942	3	Tie, Cable
16	800-0024	1	Screw, Cap - Hex Head (5/16-18 x 3/4)
17	870-0257	1	Nut, Hex - Self Locking (5/16-18)
18	856-0008	2	Washer, Lock EIT (5/16)

* - Parts Included in 335-0173 Heater Cable

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Detector Control

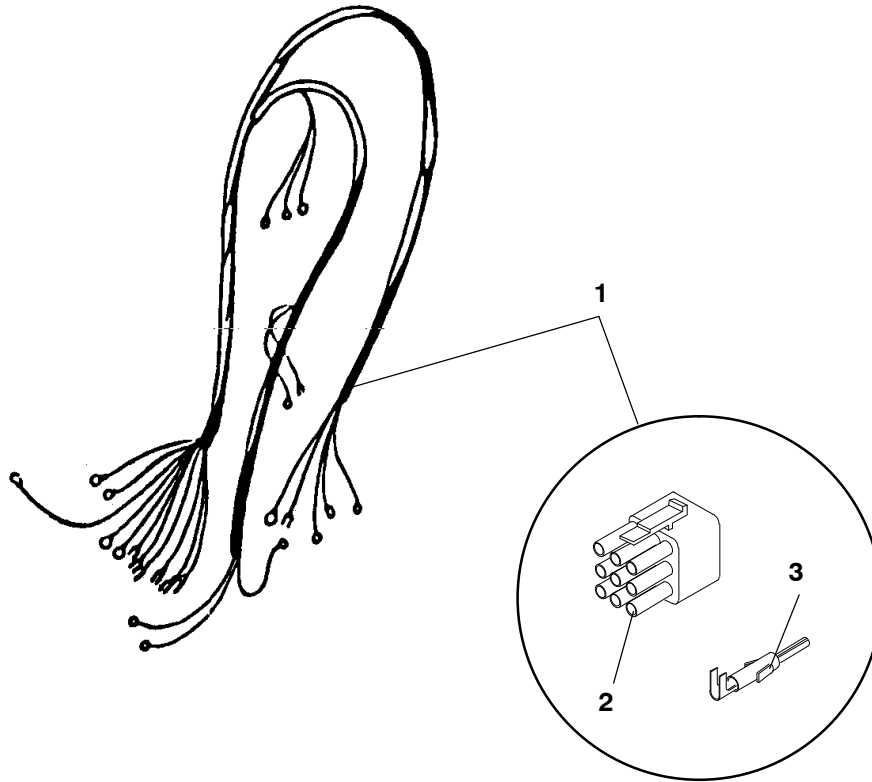


H559,560

Detector Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3030	1	Box, Control	32	323-1644-02	1	Plug, Connector (P2)
2	402-0527	4	Isolator, Vibration	33	323-1648	9	Socket, Contact
3	850-0045	4	Washer, Lock - Spring (5/16)	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	1	Screw, Self-Locking - Hex Washer Head (#10-32 x 1/2")
6	406-0333	2	Stud, Fastener	37	815-0937	4	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	815-0905-08	1	Screw, Pan Head - Cross Recessed (#10-32 x 7/8")	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)
	302-1683	1	0-100/200	53	302-2002	1	Meter, Hour (M14)
	302-1684	1	0-150/300	54	517-0131	1	Plug, Hole (Fits 7/8" Hole)
	302-1685	1	0-200/400	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	517-0302	1	Plug, Hole (Fits 2-1/4" Hole) (Quantity Used As Required)
27	815-0901-06	2	Screw, Cross Recessed - Thread Forming (#6-32 x 5/8")	60	517-0301	1	Plug, Hole (Fits 2" Hole) (Quantity Used As Required)
28	355-0189	1	Capacitor - Voltmeter (.1 Mfd., 500 WVDC) (C21)	61	308-1082	1	Handle, Rotary Switch
29	870-0183	2	Nut, Hex - W/ET (#6-32)	62	322-0431-10	1	Lens, Replacement - Check Engine (DS19 or DS20)
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)				

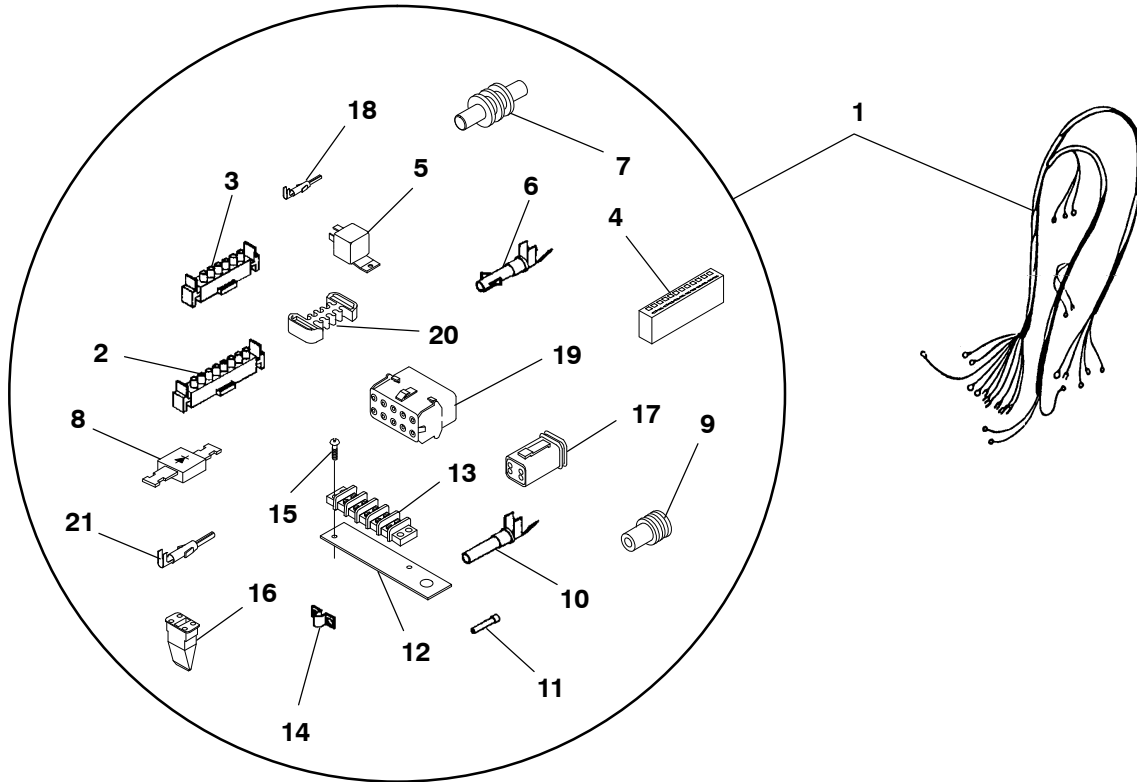
AC Wiring Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – AC Auxiliary (Includes the Following Parts)
	338-3405	1	600 Volts
	338-3403	1	Less than 600 Volts

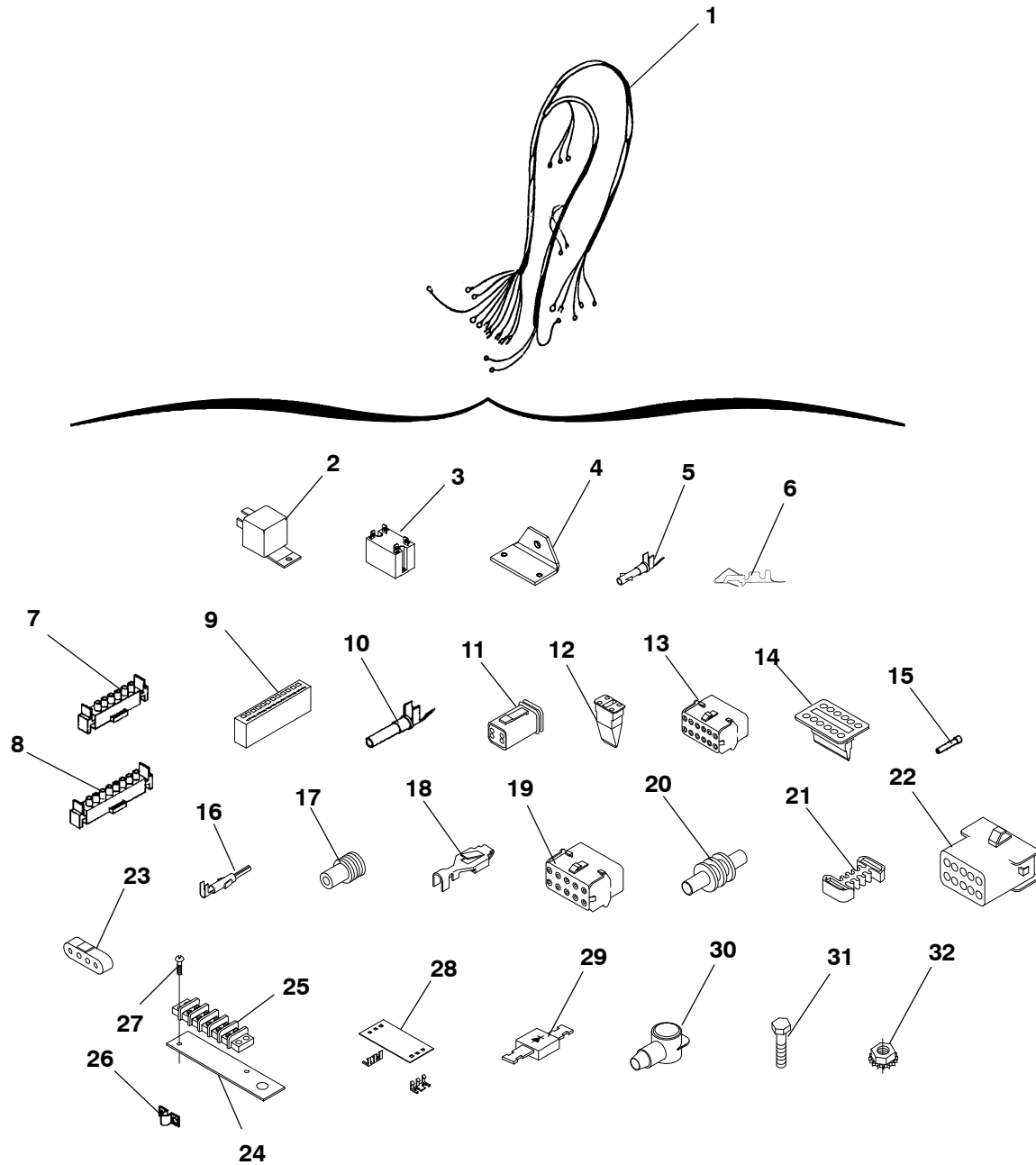
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2			Connector, Plug (9 Place)
	323-1644-01	2	600 Volts
	323-1644-01	1	Less than 600 Volts
3	323-1647	A/R	Pin, Contact

Engine Wiring Harness Spec A-B



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3921	1	Harness, Wiring – Engine to Control (Includes the Following Parts)	10	323-1492	3	Socket, Contact (Used on E1)
2	323-1306	1	Housing, Connector – 8 Place (J1)	11	323-1591	1	Plug, Seal (E1)
3	323-1304	1	Housing, Connector – 6 Place (J2)	12	319-2006-01	1	Bracket, Terminal Mounting
4	323-1374-12	1	Housing, Connector – 12 Place (J3)	13	332-0604	1	Block, Terminal (T26)
5	307-2817-01	2	Relay (K4, K5)	14	332-1043	4	Jumper (T26)
6	323-1200	12	Socket, Contact (Used in J1, J2)	15	815-0538	2	Screw, Machine – Round Head – Cross Recessed W/IT (8-32 x .50)
7	323-1712	A/R	Plug, Cavity (P8)	16	323-1548	1	Wedge, Plug (4 Pin)
8	357-0030	1	Rectifier, Silicon (CR2)	17	323-1546	1	Plug (4 Pin)
9	323-1708	A/R	Seal, Cable (P8)	18	323-1302	11	Pin, Contact (Used in J3)
				19	323-1710	1	Connector (10 Pin) (P8)
				20	323-1719	1	Housing, Lock (P8)
				21	323-1707	10	Pin, Terminal (P8)

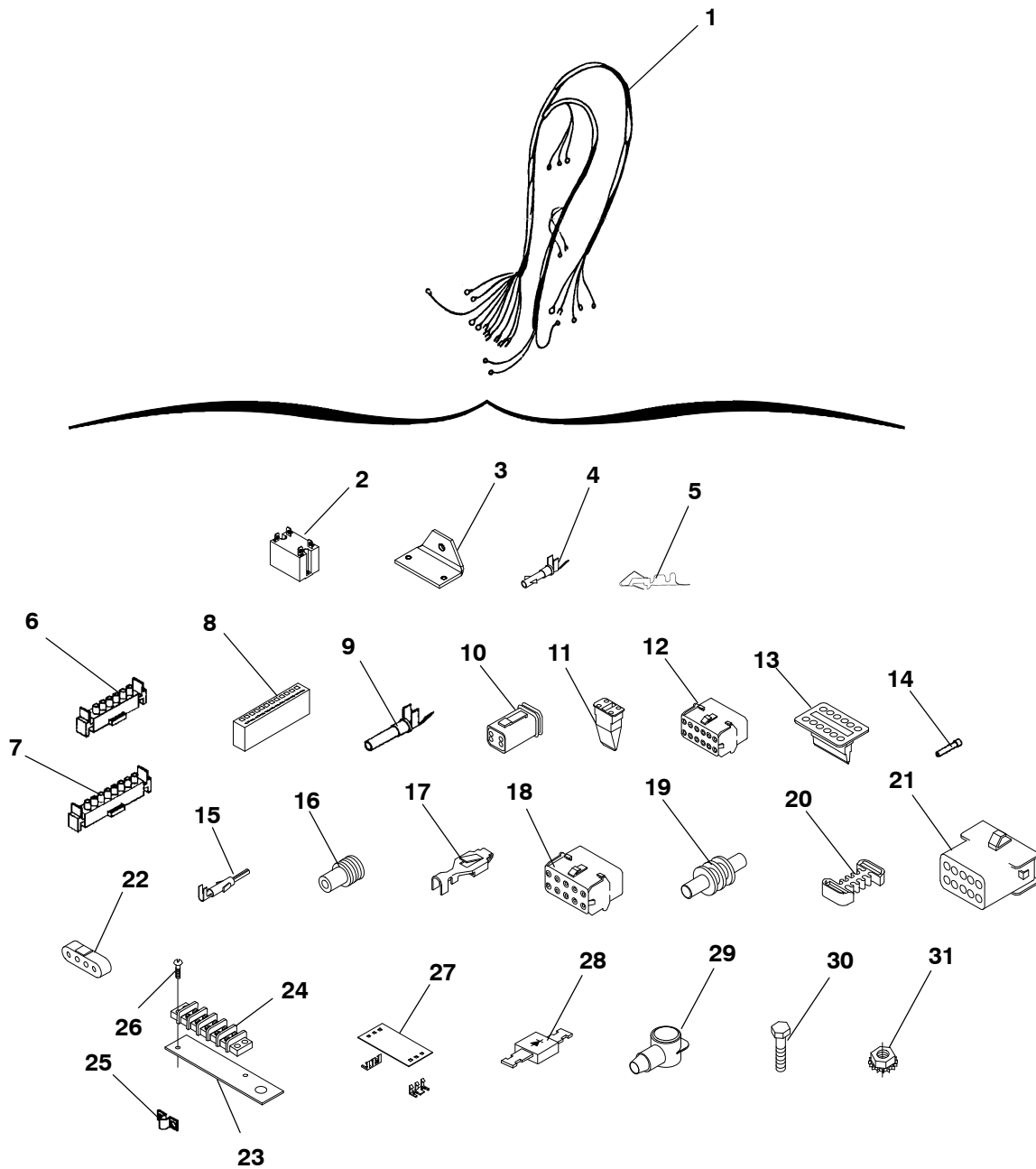
Engine Wiring Harness Spec C



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)	18	323-1709	7	Terminal, Socket
2	307-2817-01	1	Relay (K5)	19	323-1710	1	Connector – 10 Pin
3	307-2968-03	1	Relay, Power (K4)	20	323-1712	1	Plug, Cavity (P8)
4	307-2982-02	1	Bracket, Relay (K4)	21	323-1719	1	Housing, Lock (P8)
5	323-1200	12	Socket, Contact	22	323-1815	1	Housing, Connector (E9)
6	323-1302	11	Socket, Contact	23	323-1816	1	Housing, Lock (E9)
7	323-1304	1	Housing, Connector – 6 Place (J2)	24	319-2006-01	1	Bracket, Terminal Mounting
8	323-1306	1	Housing, Connector – 8 Place (J1)	25	332-0604	1	Block, Terminal (T26)
9	323-1374-12	1	Housing, Connector – 12 Place (J3)	26	332-1043	4	Jumper (T26)
10	323-1492	21	Terminal, Socket	27	815-0538	2	Screw, Machine – Round Head – Cross Recessed W/IT (8-32 x .50)
11	323-1546	1	Plug – 4 Pin	28	332-3792-01	1	Cover, Terminal Block (Includes 2 Nylon Spring Clips)
12	323-1548	1	Wedge, Plug – 4 Pin	29	357-0030	1	Rectifier, Silicon
13	323-1582	2	Plug – 12 Pin	30	416-1021-03	1	Boot
14	323-1583	2	Wedgw, Plug – 12 Pin	31	812-0079	2	Screw (#8-32 x .50)
15	323-1591	7	Plug, Seal	32	870-0221	2	Nut, Hex – W/ET (#8-32)
16	323-1707	9	Terminal, Pin (P8)	33	323-1975	1	Housing, Connector (E30) (Not Illustrated)
17	323-1708	16	Seal, Cable (P8, E9, E30)	34	323-1976	1	Lock, Connector (E30) (Not Illustrated)

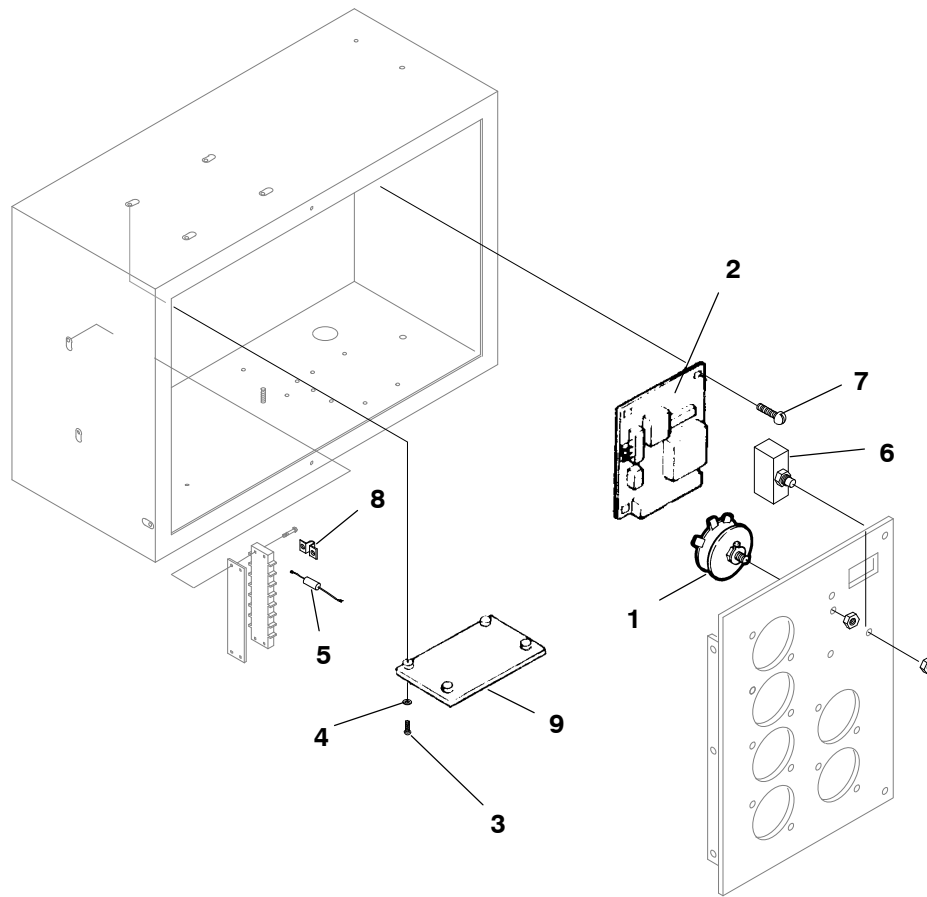
Engine Wiring Harness Begin Spec D



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				

Voltage Regulator



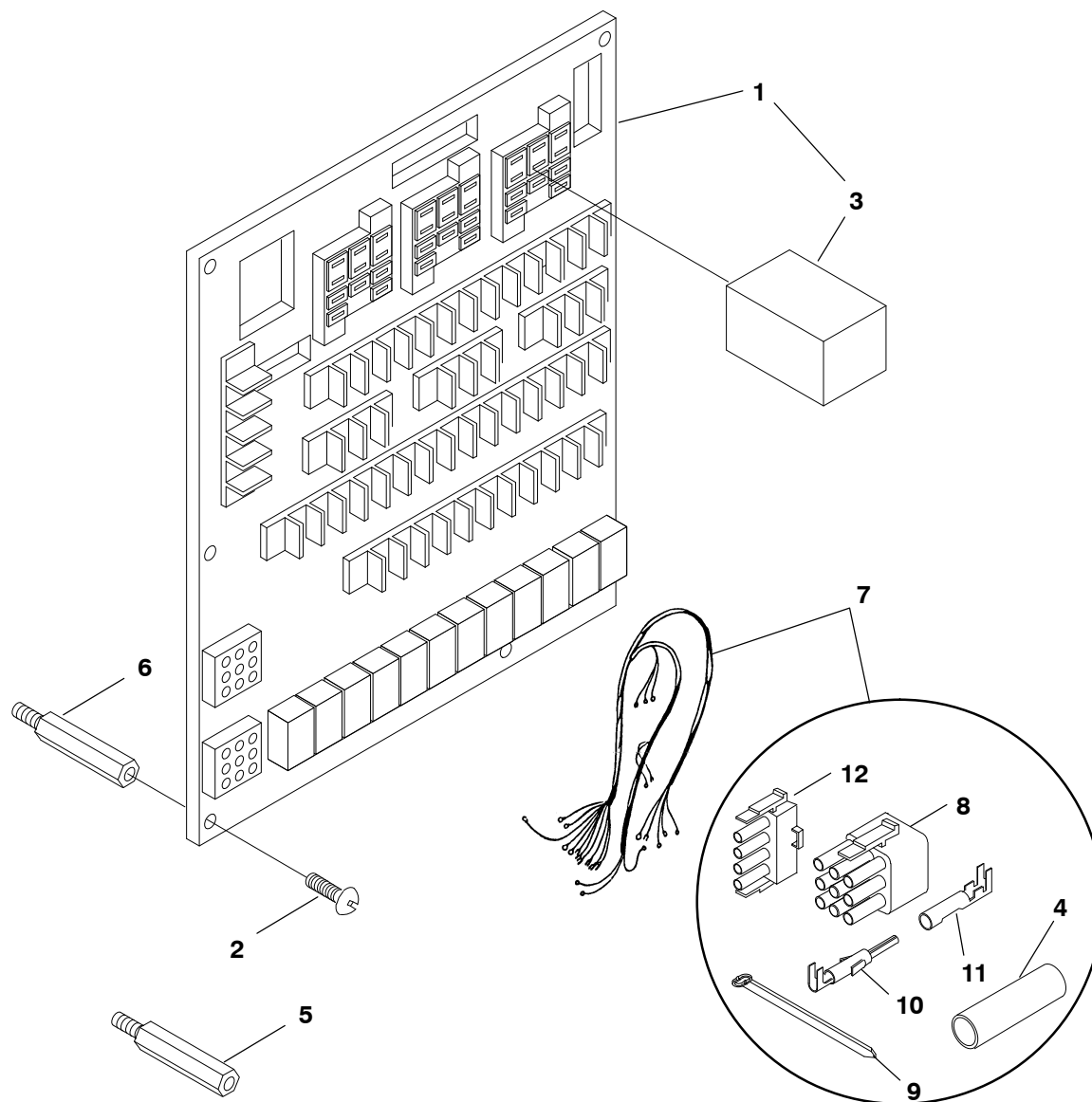
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	303-0261	1	Potentiometer (R21) * 1.5K Ohms (Used With Model SX460 Voltage Regulator)
	303-0285-01	1	# 5K Ohms (Used With Model MX321 Voltage Regulator)
2			Board, Printed Circuit – Voltage Regulator (VR21)
	305-0982	1	* Model SX460
	305-0823	1	# Model MX321
3	815-0901-06	4	#Screw, Pan Head – Cross Recessed (#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

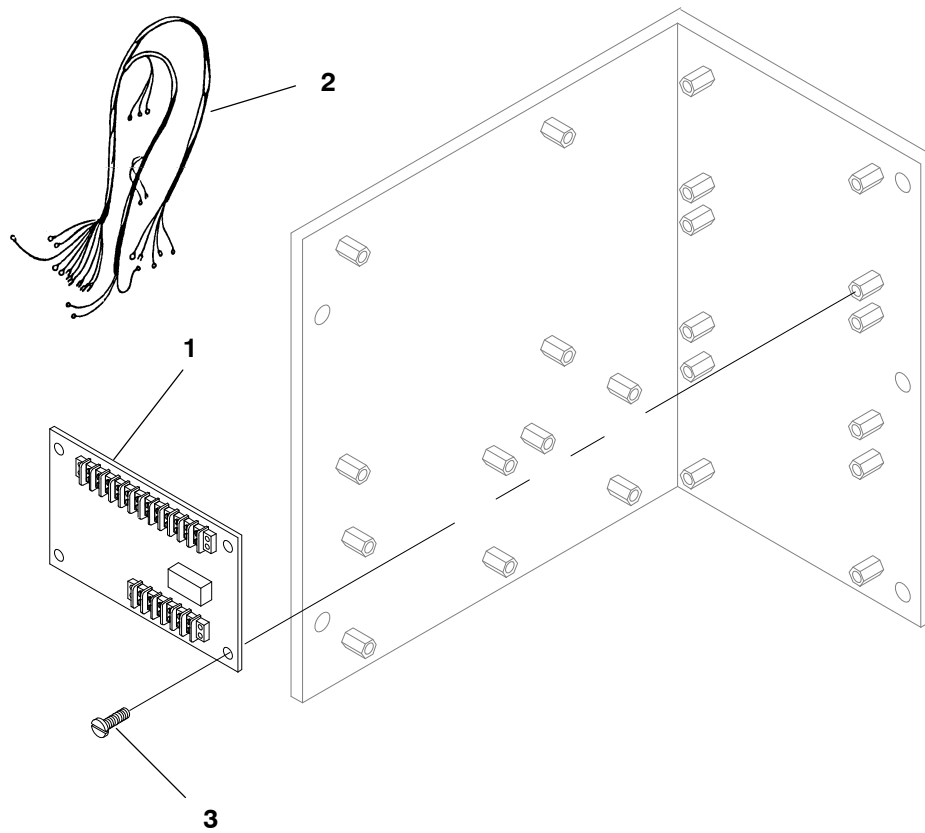
Alarm Relay Board



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 lg.)	11	323-1200	12	* Socket, Contact
6	870-0517-01	4	Standoff – Alarm Board (1.25 lg.)	12	323-1292	1	* Plug, 4 Pin

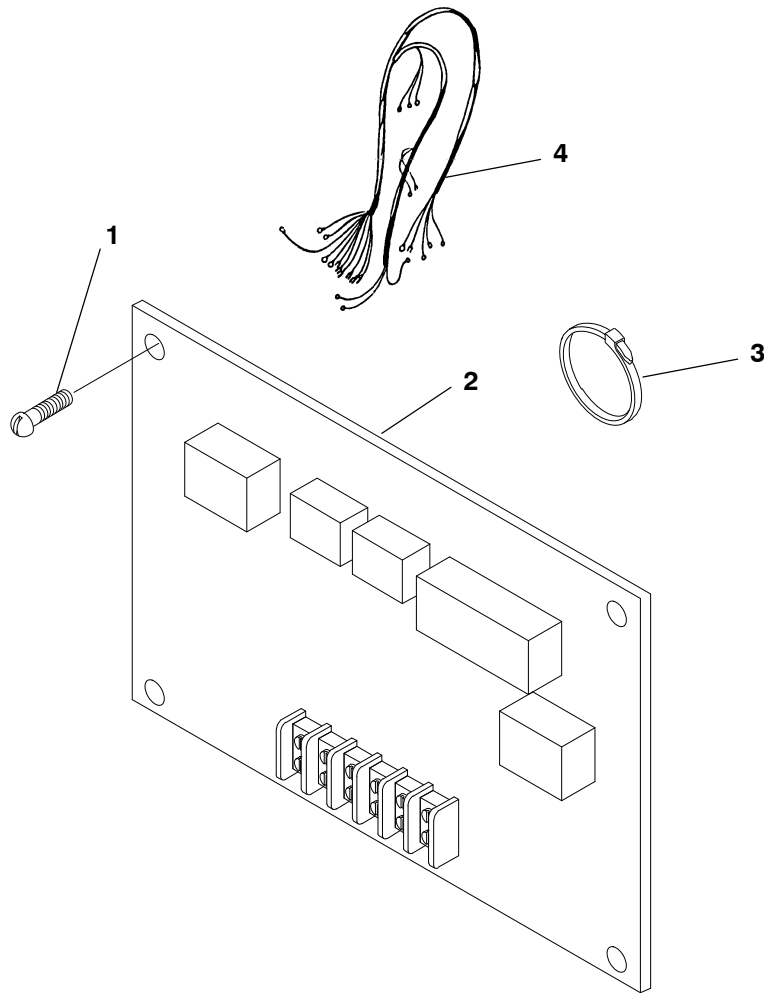
* = Parts includes in 338-2875 Harness Assembly

Common Alarm



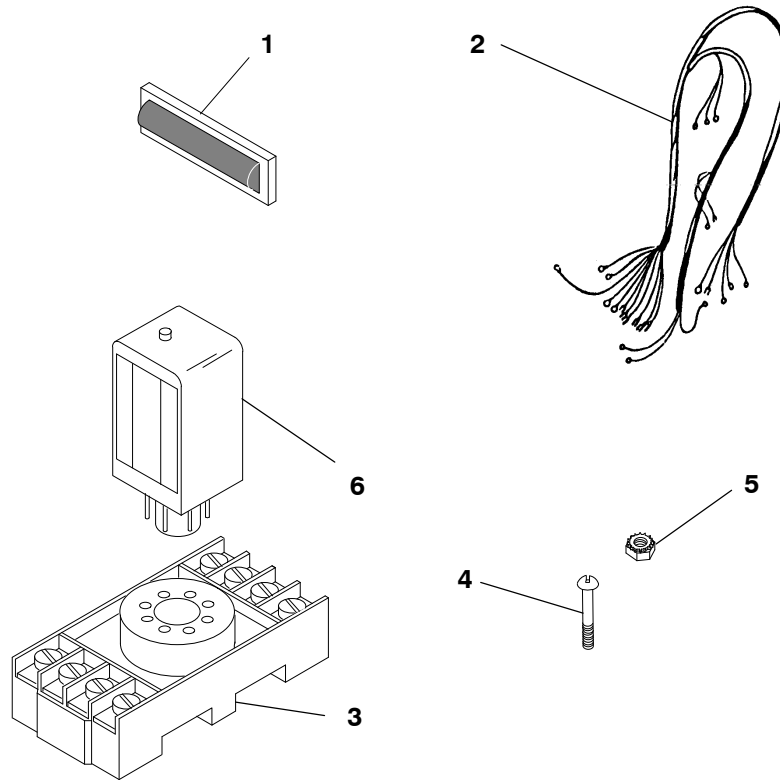
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-4218-01	1	Board, Printed Circuit – Diode	3	812-0063	4	Screw, Machine – Round Head (#6-32 x 1/2)
2	338-3033	1	Harness, Common Alarm				

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				

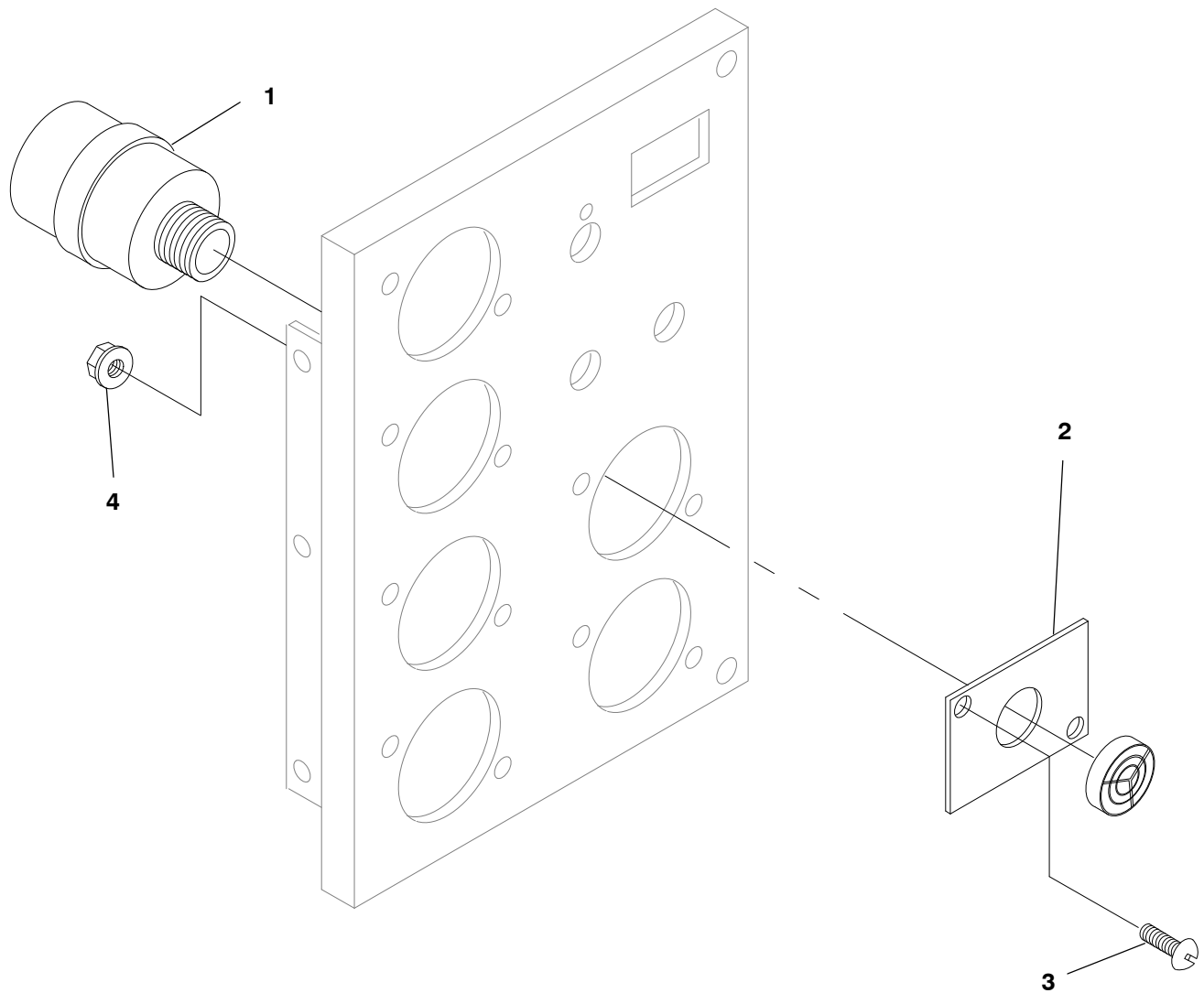
Low Battery Voltage Sensor



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)

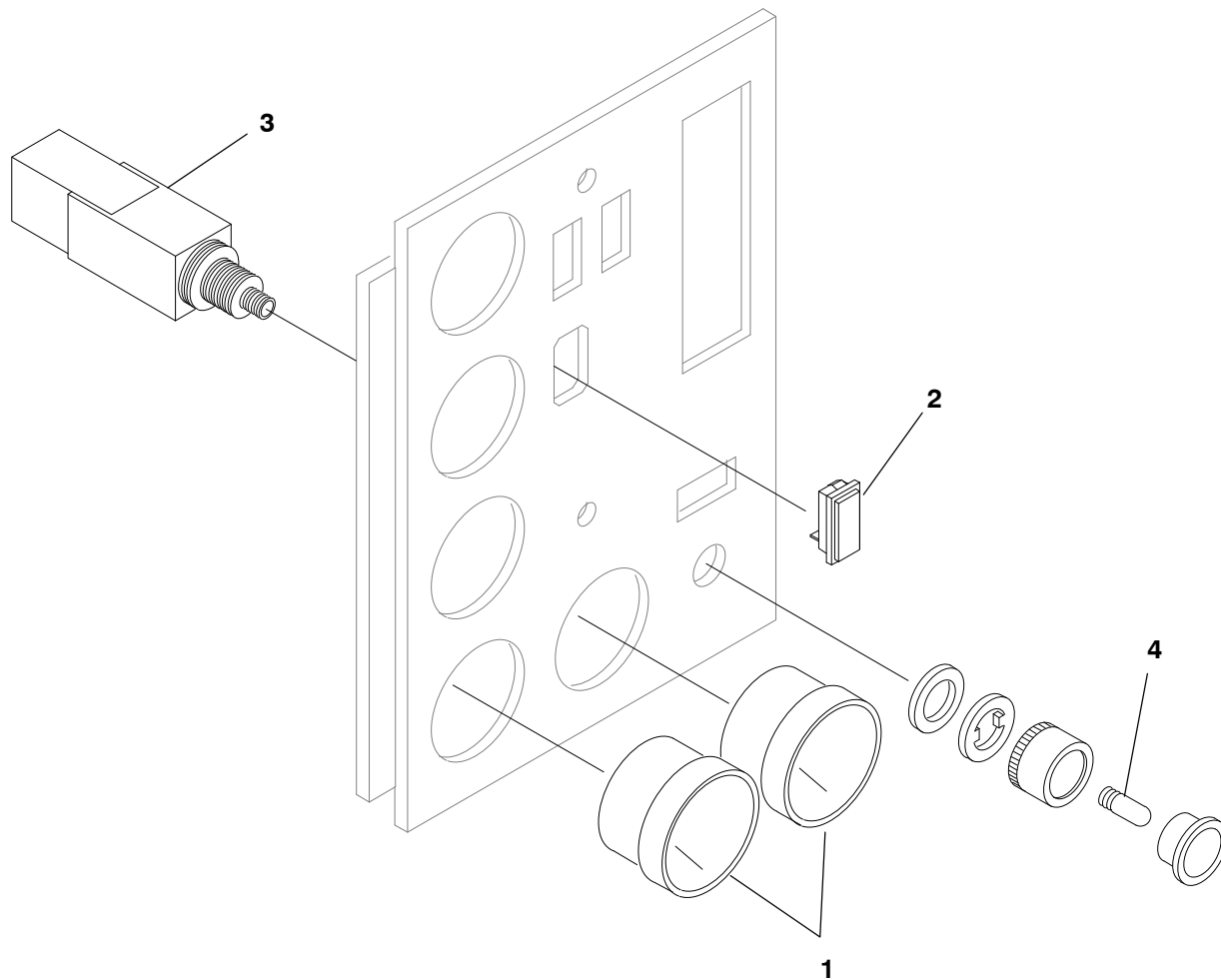
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	870-1221	2	Nut, Hex W/ET (#8-32)
6	305-0901	1	Sensor, Low Battery Voltage

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)				

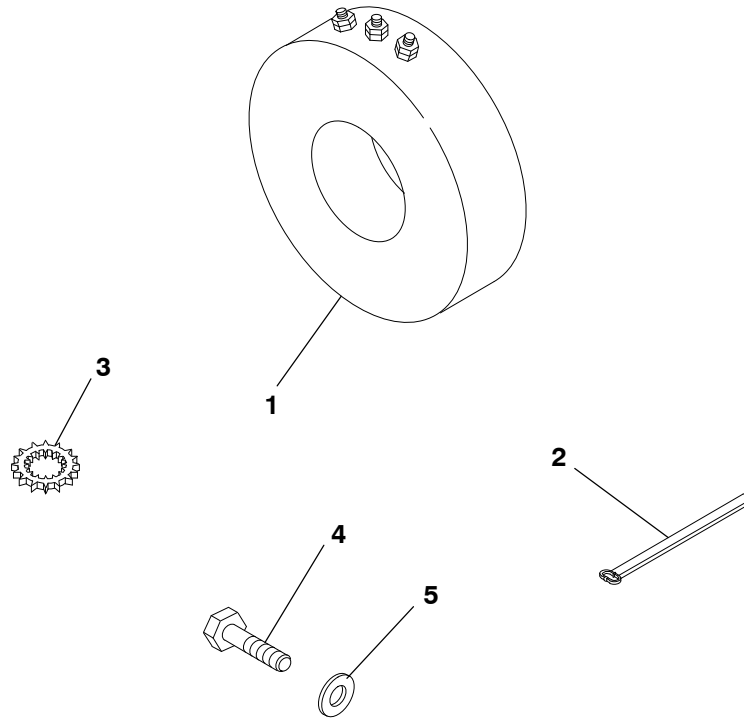
Emergency Stop Switch



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)

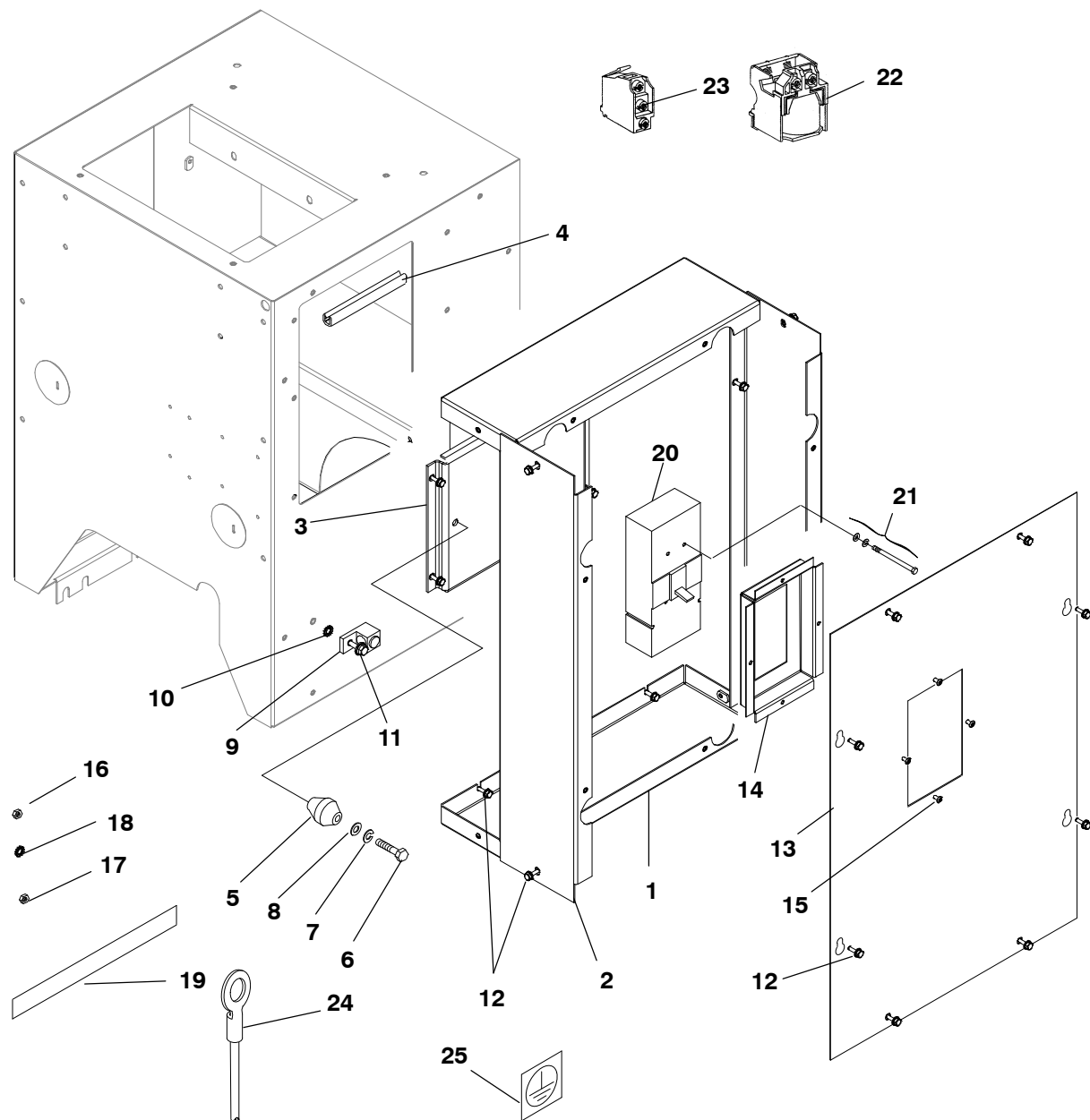
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	322-0487	1	Bulb, Replacement

Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT21, CT22, CT23)	2	332-1389	8	Tie, Cable
	302-1845-04	3	Ratio 100/5 or 200/5	3	856-0008	1	Washer – W/EIT (5/16)
	302-1845-05	3	Ratio 150/5 or 300/5	4	800-2056	1	Screw, Cap – Hex Head (M8 x 1.25 x 16)
	302-1845-06	3	Ratio 200/5 or 400/5	5	526-2100	1	Washer, Flat (M8)

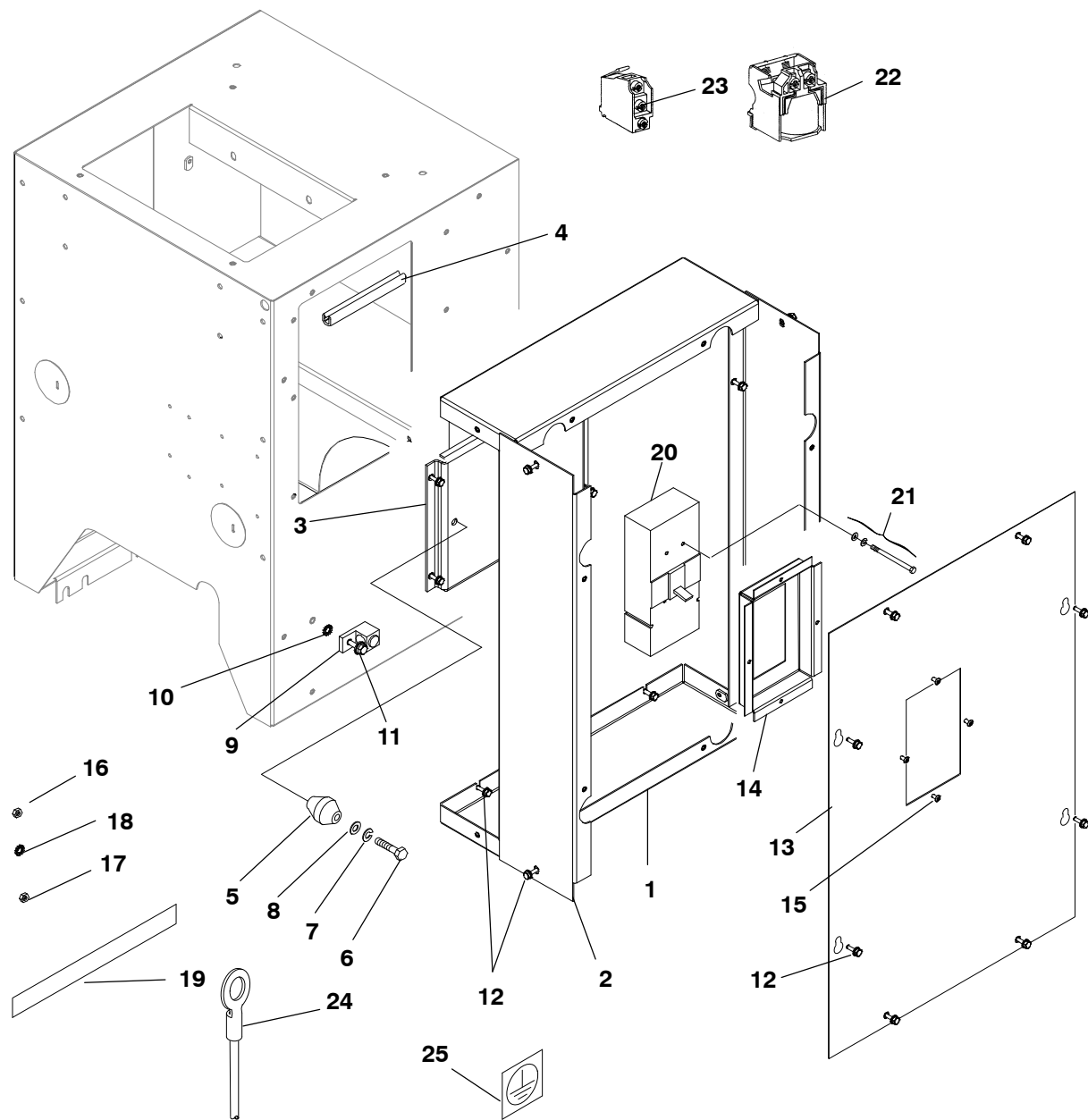
Circuit Breaker



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 Breakers
4	508-0239	–	Edging – Bulk (Order By The Foot – 2 Feet Required)	17	870-0221	4	Nut, Hex – W/ET (#8-32)
5	332-2744-07	1	*Standoff, Insulator				Mounting Hardware Used On
6	800-0048	2	*Screw, Cap – Hex Head (3/8-16 x 3/4")	18	856-0005	4	Washer, Lock – EIT (#12)
7	850-0050	2	*Washer, Lock – Spring (3/8")				Mounting Hardware Used On
8	526-0029	1	*Washer, Flat (3/8")				320-1962-XX Circuit Breakers
9	332-1473	1	Lug, Solderless	19	091-0002	1	Strip, Copper (Used for
10	856-0008	1	Washer, Lock – EIT (5/16")				wrapping end of leads before
11	821-6003-02	1	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)				securing to circuit breakers)
12	821-6002-03	24	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)				(Quantity Used As Required)
13	319-3151	1	Cover, Box	* – Parts Used On Generator Sets With 2 Or 3 Pole Circuit Breakers			
14			Cup				
	319-3242	1	1-1/2" x 3-1/2" Opening	Continued...			
	319-3150	1	2-1/2" x 4-3/4" Opening				
	319-3240	1	3" x 3-15/16" Opening				
15	818-0231-02	4	Rivet, Pop				

Circuit Breaker

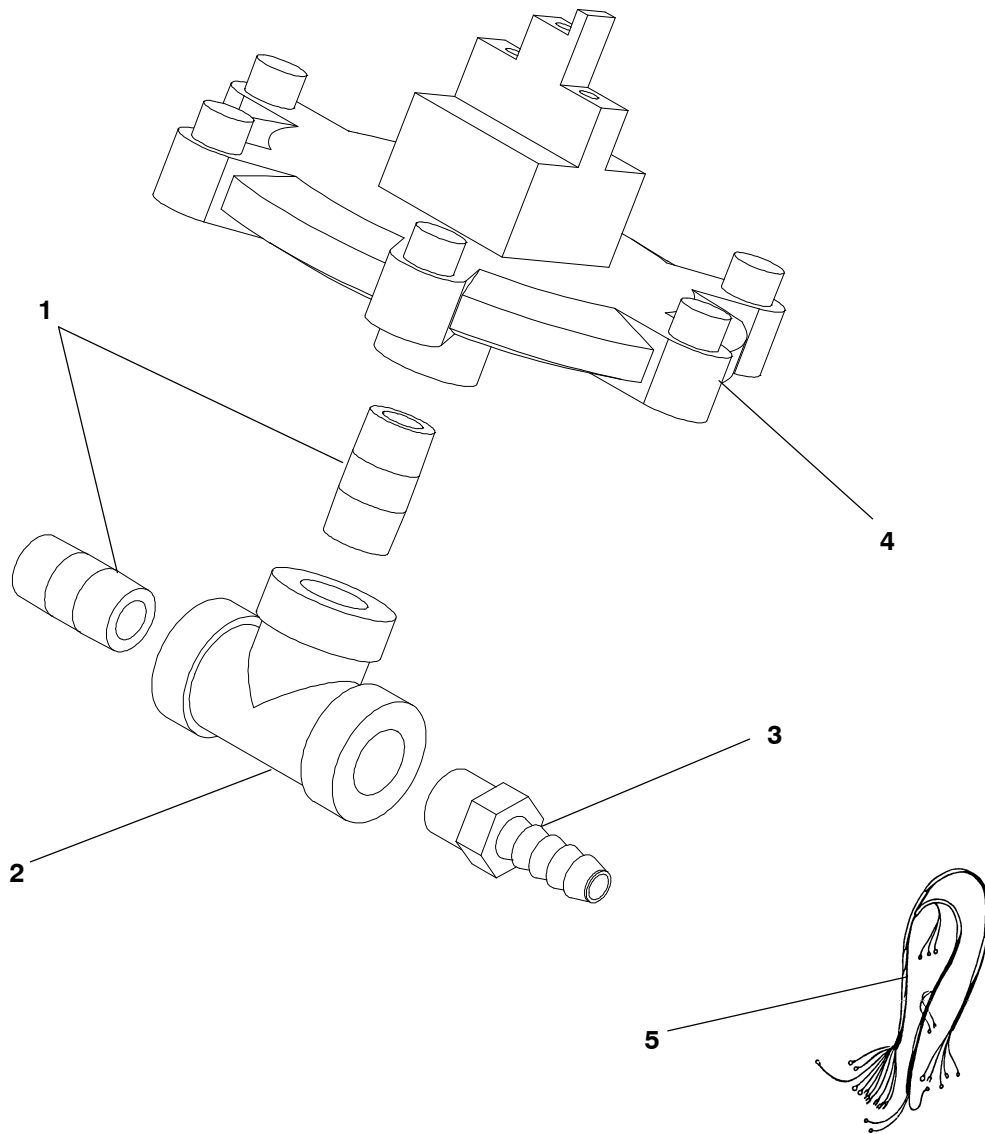


Circuit Breaker

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				21			Package, Hardware – Circuit Breaker Mounting (Includes Screws, Nuts and Lock Washers)
20			Breaker, Circuit				Used With 320-1959-XX Circuit Breakers
			2 Pole (UL)				Used With 320-1960-XX Circuit Breakers
	320-1961-07	1	100 Amp (240 Volts)		320-1986-08	1	Used With 320-1962-XX Circuit Breakers (Screws Only)
	320-1961-06	1	125 Amp (240 Volts)				Accessories, Circuit Breaker:
	320-1961-05	1	150 Amp (240 Volts)		320-1986-07	1	The following are used on
	320-1961-04	1	175 Amp (240 Volts)				320-1959-XX and
	320-1961-03	1	200 Amp (240 Volts)		320-1986-05	1	320-1960-XX Circuit Breakers
	320-1961-02	1	225 Amp (240 Volts)				Trip, Shunt (12V)
	320-1961-01	1	250 Amp (240 Volts)				Switch – Used as an
	320-1962-03	1	* 300 Amp (240 Volts)				Auxiliary Contact or Trip
	320-1962-02	1	* 350 Amp (240 Volts)				Alarm
	320-1962-01	1	* 400 Amp (240 Volts)				Lead (Quantity Used As Required)
			3 Pole (UL)	22	320-1981-02	1	3/8" Ring Terminal End to 1" Stripped End – No Markings (33") (#1/0 Wire)
	320-1961-14	1	100 Amp (240 Volts)	23	320-1981-01	2	3/8" Ring Terminal End to 1" Stripped End – No Markings (30") (#4 Wire)
	320-1961-13	1	125 Amp (240 Volts)				3/8" Ring Terminal End to 3/8" Ring Terminal End – Marked "LO" (30") (#4 Wire)
	320-1961-12	1	150 Amp (240 Volts)				3/8" Ring Terminal End to 3/8" Ring Terminal End – Marked "LO" (30") (#1/0 Wire)
	320-1961-11	1	175 Amp (240 Volts)				Label, Ground
	320-1961-10	1	200 Amp (240 Volts)	24			
	320-1961-09	1	225 Amp (240 Volts)		226-0893	1	
	320-1961-08	1	250 Amp (240 Volts)				
	320-1962-06	1	* 300 Amp (240 Volts)		226-3505-01	1	
	320-1962-05	1	* 350 Amp (240 Volts)				
			3 Pole (UL & IEC)		226-3505-03	1	
	320-1959-20	1	* 30 Amp (600/750 Volts)				
	320-1959-19	1	* 40 Amp (600/750 Volts)		226-3505-04	1	
	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)	25	098-6537	1	
	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)				
	320-1959-15	1	* 100 Amp (750 Volts)				
	320-1959-14	1	* 125 Amp (750 Volts)				
	320-1959-13	1	* 160 Amp (750 Volts)				
	320-1959-12	1	* 200 Amp (750 Volts)				
	320-1959-11	1	* 250 Amp (750 Volts)				
	320-1960-10	1	* 320 Amp (750 Volts)				
	320-1960-09	1	* 400 Amp (750 Volts)				

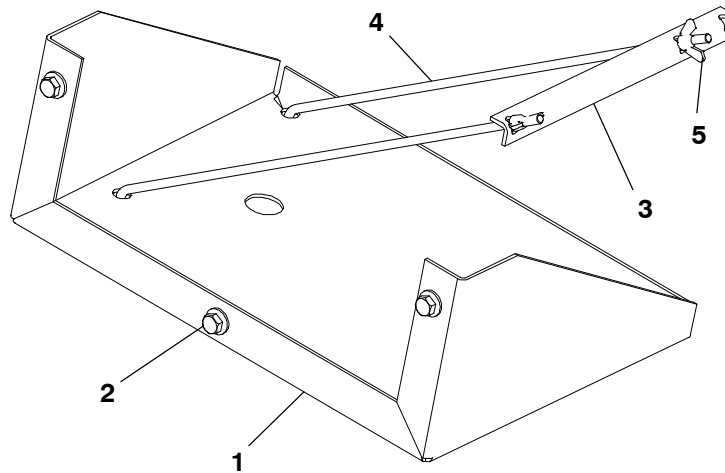
* – Includes Mounting Hardware

Vacuum Switch



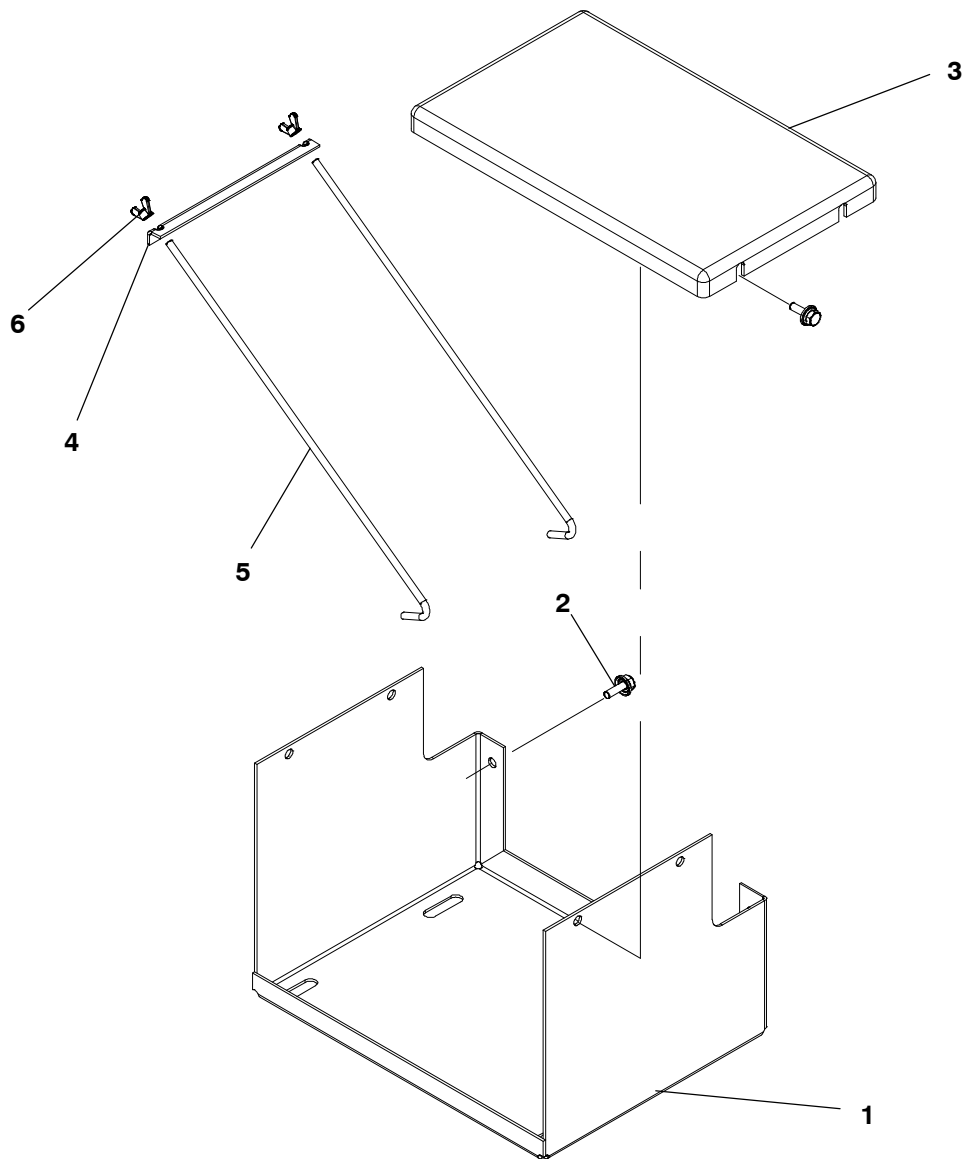
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0098	2	Nipple, Pipe (1/8 x .75)	4	148-1099	1	Switch, Vacuum
2	505-0059	1	Tee, Pipe (1/8)	5	338-3667	1	Harness, Vacuum Switch
3	502-1299	1	Connector, Hose (1/8 x 3/16)				

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

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