

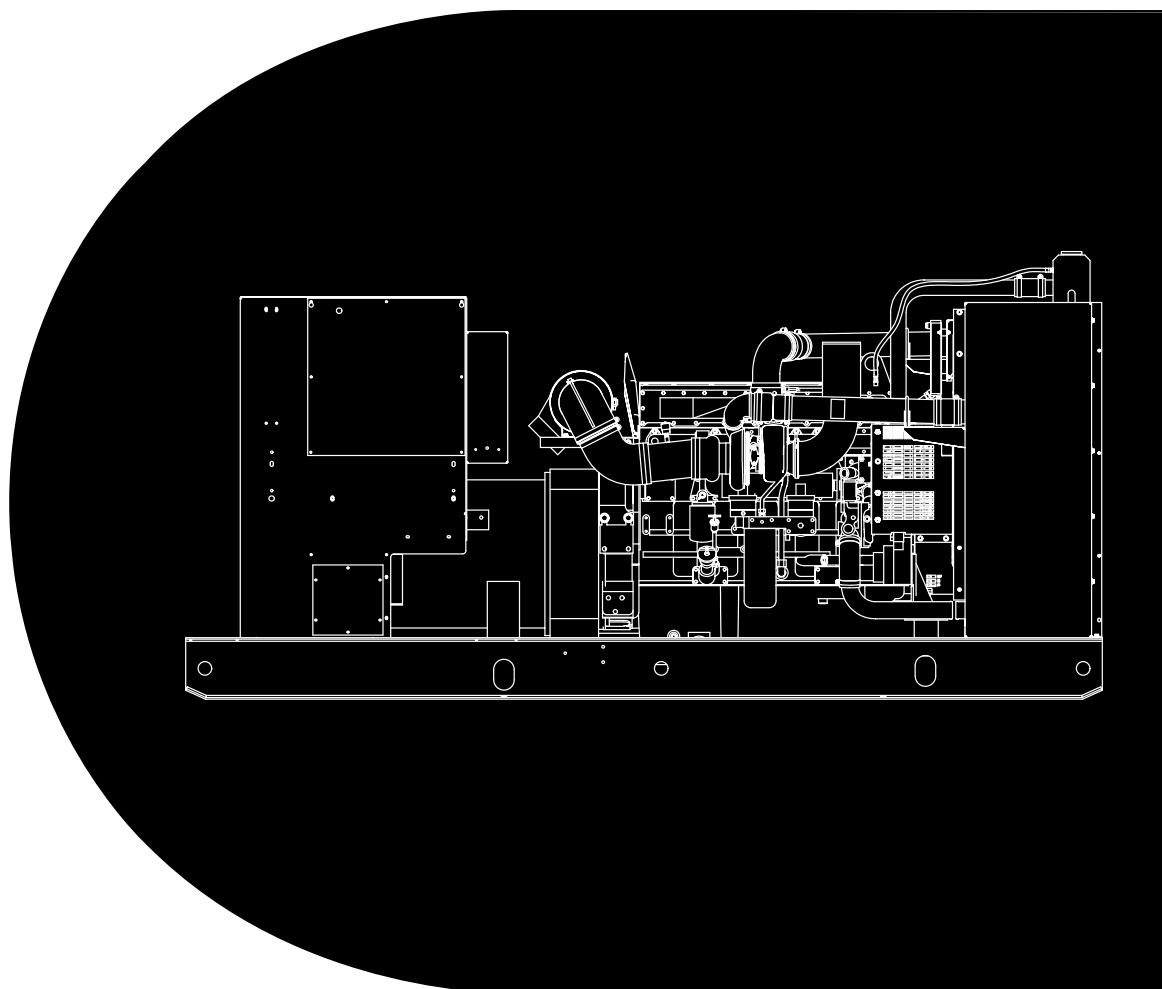
Parts Catalog

Models

DQAD (Spec B)

DQAE (Spec B)

DQAF (Spec B)



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!

PSP-1

Introduction

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

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

Replacement Engine

Cummins Power Generation Generator Model	Cummins Engine Model
DQAD	QSM11-G1
DQAE	QMS11-G2
DQAF	QMS11-G2

Generator Set Data Table

Model and Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
220DQAD/* 250DQAD/*	220,000 250,000	# #	50 60	12 12	3 3	24VDC 24VDC
250DQAE/* 275DQAE/*	250,000 275,000	# #	50 60	12 12	3 3	24VDC 24VDC
275DQAF/* 300DQAF/*	275,000 300,000	# #	50 60	12 12	3 3	24VDC 24VDC

* – The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letter. The specification number denotes customer requested options or deviations from the standard model. The specification letter advances (A to B, B to C, etc.) with major manufacturing changes.

– Broad range reconnectible

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Engine Parts Catalog Ordering Information

A parts catalog listing all of the engine parts is available for purchase from the engine supplier.

To order an engine parts catalog, please contact the following suppliers.

Cummins Powered Generator Sets:

Cummins Literature Service
Phone 800-646-5609 or
Outside the US or Canada phone 502-454-6660
Please have the Cummins engine serial number available.

Ford Powered Generator Sets:

Northern Power Products
Phone 800-284-6247 or
Outside the US or Canada phone 651-452-8900
Please have the Ford engine model number available.

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Abbreviations

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

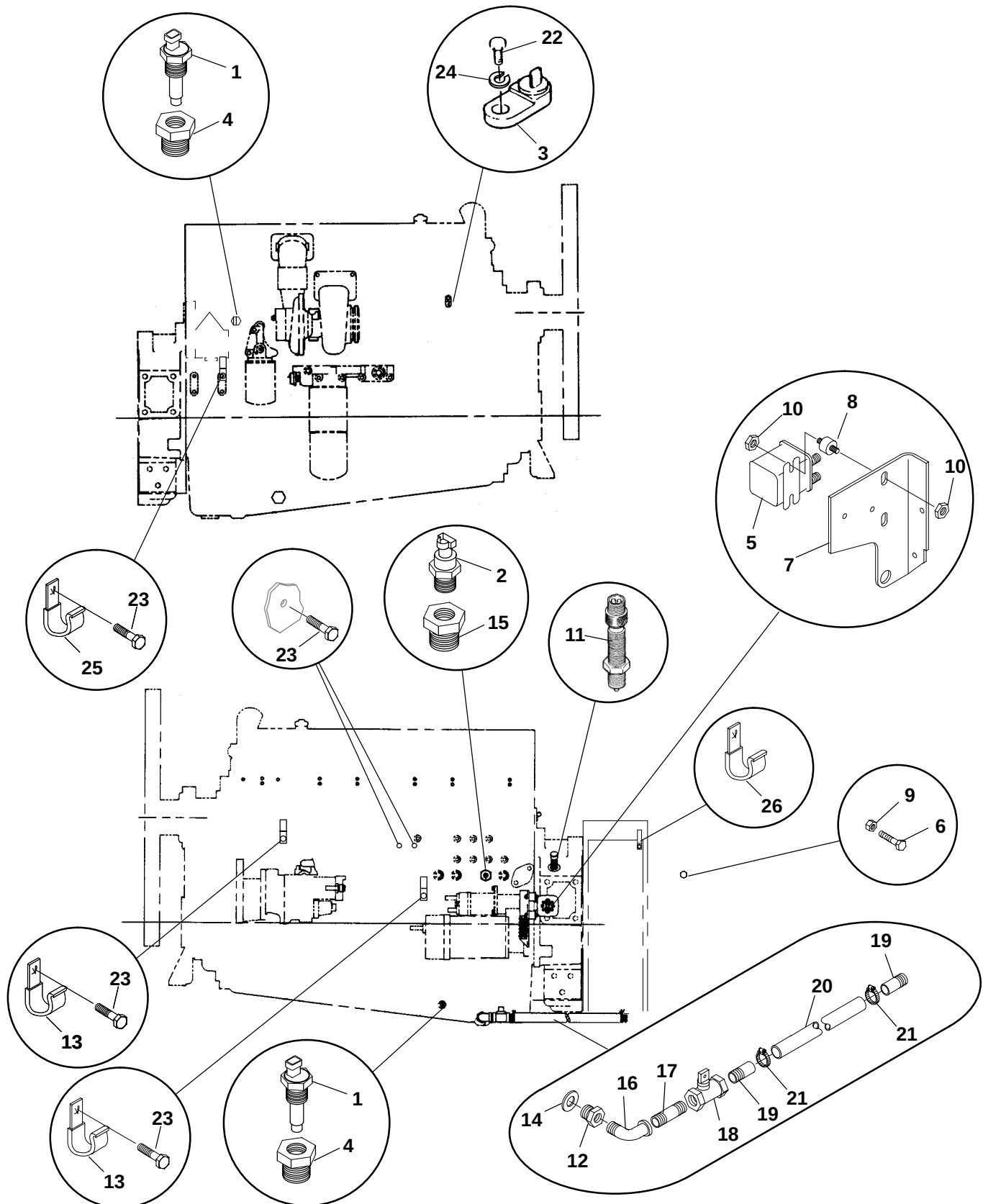
AC	Alternating Current	mm	Millimeter
Amp	Ampere	MOH	Mobile Off Highway
A/R	As Required	NFS	Not For Sale
AVR	Automatic Voltage Regulator	NPT	National Pipe Thread
AWG	American Wire Gauge	OD	Outside Diameter
DC	Direct Current	oz.	Ounce
Deg	Degree	PC	Printed Circuit
EFC	Electronic Fuel Control	Ph	Phase
EIT	External/Internal Tooth	PMG	Permanent Magnet Generator
EPROM	Erasable Programmable Read Only Memory	PT/CT	Potential Transformer/Current Transformer
ET	External Tooth	RFI	Radio Frequency Interference
GFI	Ground Fault Interrupter	RT	Right
ID	Inside Diameter	Spec	Specification
IEC	International Electrotechnical Commission	Thk	Thick
IT	Internal Tooth	UL	Underwriters Laboratories Inc.
kW	Kilowatt	UNC	Union National Coarse
LPG	Liquid Petroleum Gas	UNF	Union National Fine
LT	Left	VAC	Volts Alternating Current
M(meter number)	Meter	VDC	Volts Direct Current
		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)	518-0601	–	–	Sealant, Thread (6 ml Tube)
	525-0305	–	12 oz. Pressurized Spray Can	525-0749	–	–	Paint, Sandstone
	525-0306	–	Quart Can				
	525-0304	–	Gallon Can				

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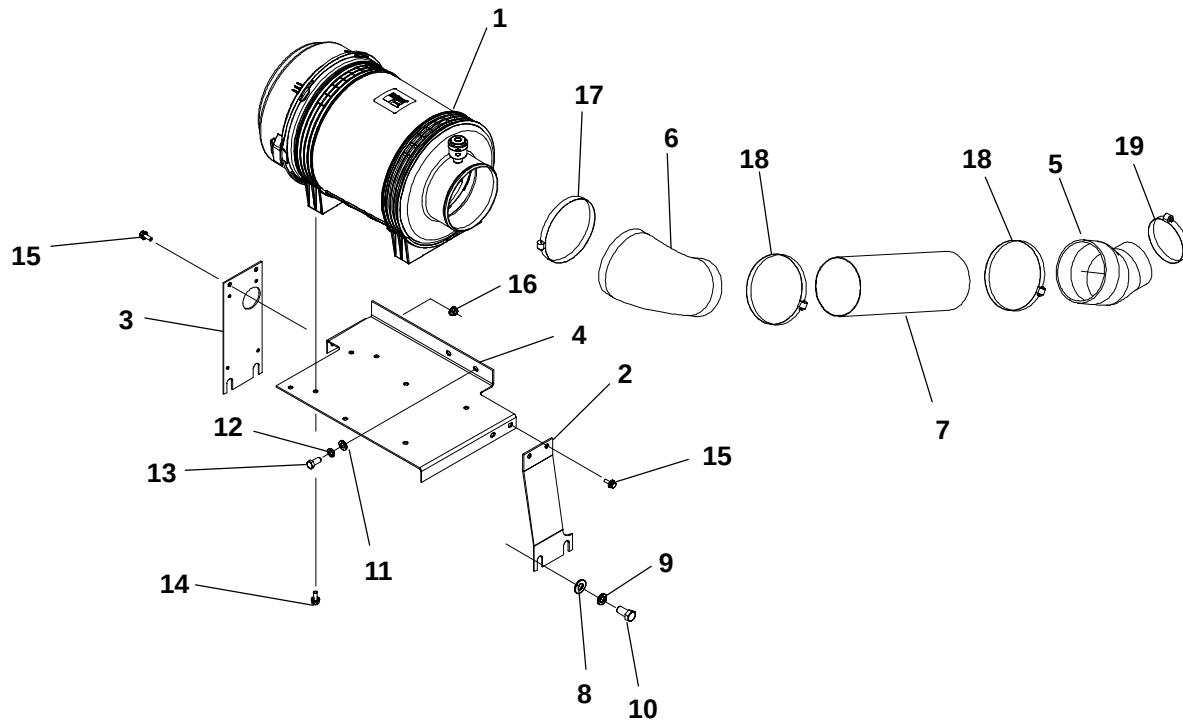
Engine Accessories



Engine Accessories

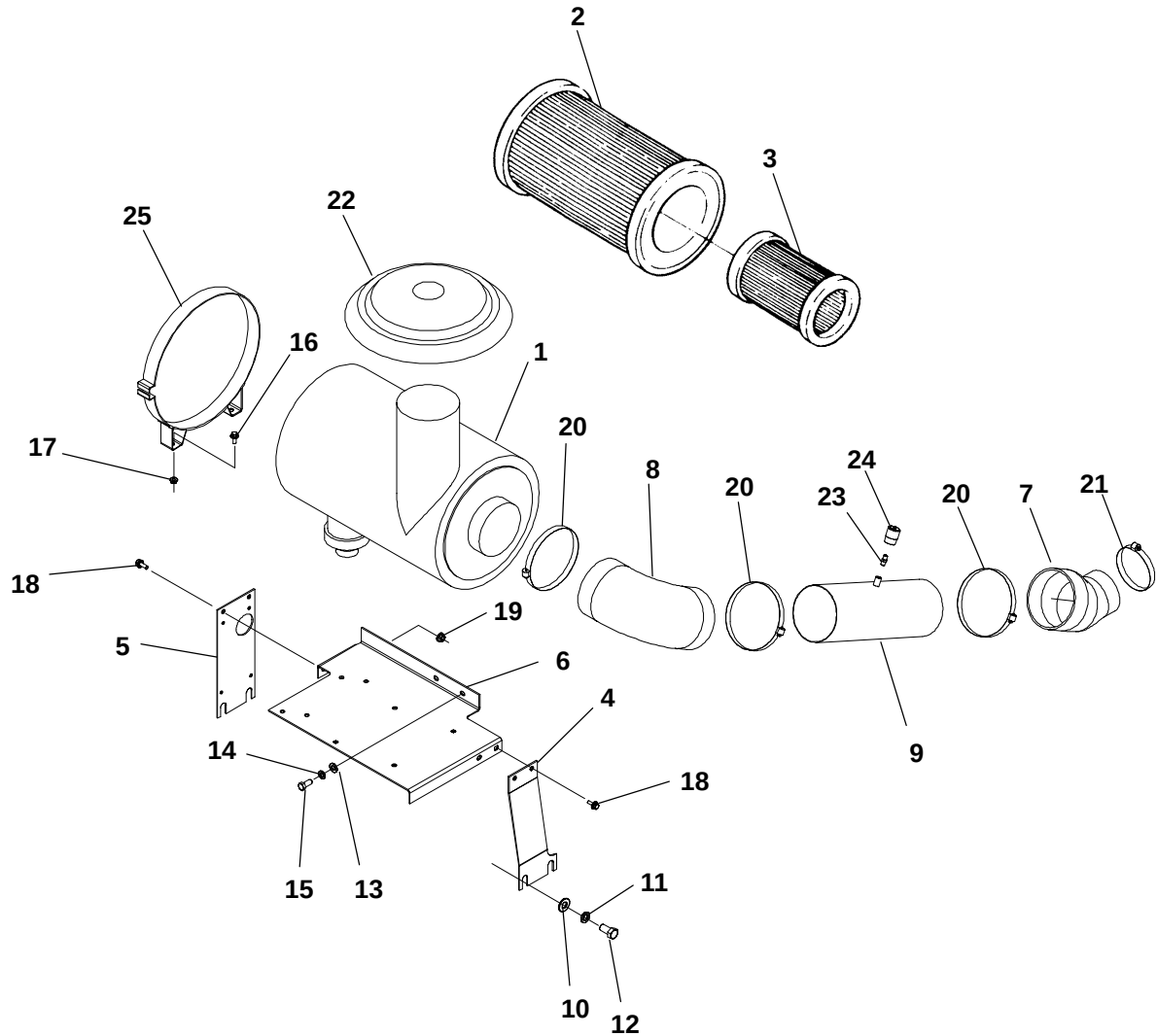
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0432	2	Sender, Oil Temperature (E2 Engine Block, E4 Oil Pan)	14	508-0292	1	Washer, Sealing – Copper
2	193-0444	1	Sender, Oil Pressure (S1)	15	502-1217-01	1	Adapter, Female – Brass
3	309-0269	1	Switch, Temperature – Low Engine Coolant (S4)	16	505-0050	1	Elbow, Pipe – Street – 90° (1/2")
4	505-0019	2	Bushing, Pipe – Reducer (1/2" to 3/8")	17	505-0100	1	Nipple, Pipe – Close (1/2")
5	307-2621-02	1	Solenoid, Pilot (K4)	18	504-0011	1	Valve, Shutoff (1/2")
6	800-0091	1	Screw, Cap – Hex Head (1/2-13 x 1.25)	19	502-0827	2	Barb, Hose (1/2" x 3/4")
7	319-2236	1	Bracket, Mounting	20	503-0098	–	Hose, Drain – Bulk (Order by the Foot – 3 Feet Required)
8	402-0610	2	Isolator, Vibration	21	503-0189	2	Clamp, Hose
9	862-0016	1	Nut, Hex (1/2-13)	22	800-2107	1	Screw, Cap – Hex Head (M10 x 150mm)
10	870-0212	4	Nut, Locking (1/4-20)	23	800-2060	4	Screw, Cap – Hex Head (M10 x 20mm)
11	151-0411	1	Pickup, Magnetic	24	850-2010	1	Washer, Lock – Spring (M10)
12	102-1335	1	Plug, Oil Drain	25	518-0548-35	1	Clamp, Hose
13	518-0548-01	2	Clamp, Hose	26	518-0548-44	1	Clamp, Hose

Air Cleaner Standard



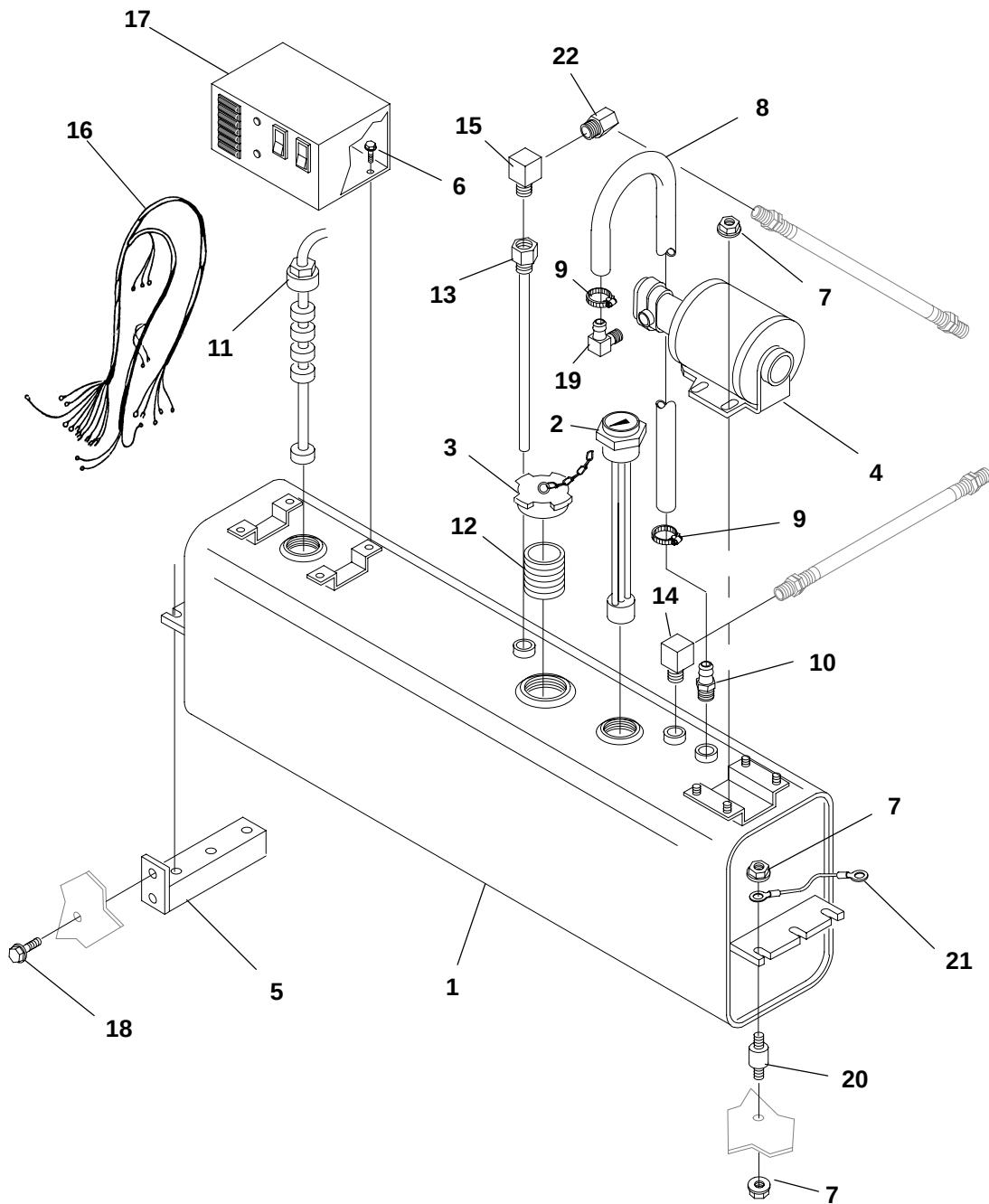
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3288-02	1	Cleaner, Air	12	850-2012	2	Washer, Lock – Split (M12)
2	140-2656	1	Bracket, Air Cleaner	13	800-2111	2	Screw, Cap – Hex Head (M12 x 1.75 x 25)
3	140-2655	1	Bracket, Air Cleaner	14	821-6003-02	4	Screw, Hex Head (M8 x 1.25 x 20)
4	140-3343-02	1	Bracket, Air Cleaner	15	821-6004-01	4	Screw, Hex Head (M10 x 1.5 x 20)
5	503-2276	1	Elbow, Reducer – 45° (5.5 x 4)	16	870-2065-04	4	Nut, Hex – Flange
6	140-2102	1	Elbow, Reducer – 90° (7 x 5.5)	17	503-1870-14	1	Clamp, Hose
7	140-3362-02	1	Tube, Air Cleaner – Inlet	18	503-1870-11	2	Clamp, Hose
8	526-0112	4	Washer, Flat (5/8)	19	503-1870-07	1	Clamp, Hose
9	850-0070	4	Washer, Lock – Split (5/8)				
10	800-0130	4	Screw, Cap – Hex Head (M12 x 1.75 x 25)				
11	526-2140	2	Washer, Flat (M12)				

Air Cleaner Heavy Duty



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2637	1	Cleaner, Air (Includes Elements)	15	800-2111	2	Screw, Cap – Hex Head (M12 x 1.75 x 25)
2	140-2636	1	Element, Filter (Outer)	16	821-6003-02	4	Screw, Hex Head (M8 x 1.25 x 20)
3	140-2638	1	Element, Filter (Inner)	17	870-2065-03	4	Nut, Hex – Flange (M8 x 1.5)
4	140-2656	1	Bracket, Air Cleaner	18	821-6004-01	4	Screw, Hex Head (M10 x 1.5 x 20)
5	140-2655	1	Bracket, Air Cleaner	19	870-2065-04	4	Nut, Hex – Flange
6	140-3343-02	1	Bracket, Air Cleaner	20	503-1870-11	3	Clamp, Hose
7	503-2276	1	Elbow, Reducer – 45° (5.5 x 4)	21	503-1870-07	1	Clamp, Hose
8	140-1415	1	Elbow – 90°	22	140-1347	1	Cap, Air Cleaner
9	140-3388-02	1	Tube, Air Cleaner – Inlet	23	140-1260	1	Fitting, Safety Filter
10	526-0112	4	Washer, Flat (5/8)	24	140-1548	1	Indicator, Service
11	850-0070	4	Washer, Lock – Split (5/8)	25	140-0757	2	Clamp, Air Cleaner
12	800-0130	4	Screw, Cap – Hex Head (M12 x 1.75 x 25)				
13	526-2140	2	Washer, Flat (M12)				
14	850-2012	2	Washer, Lock – Split (M12)				

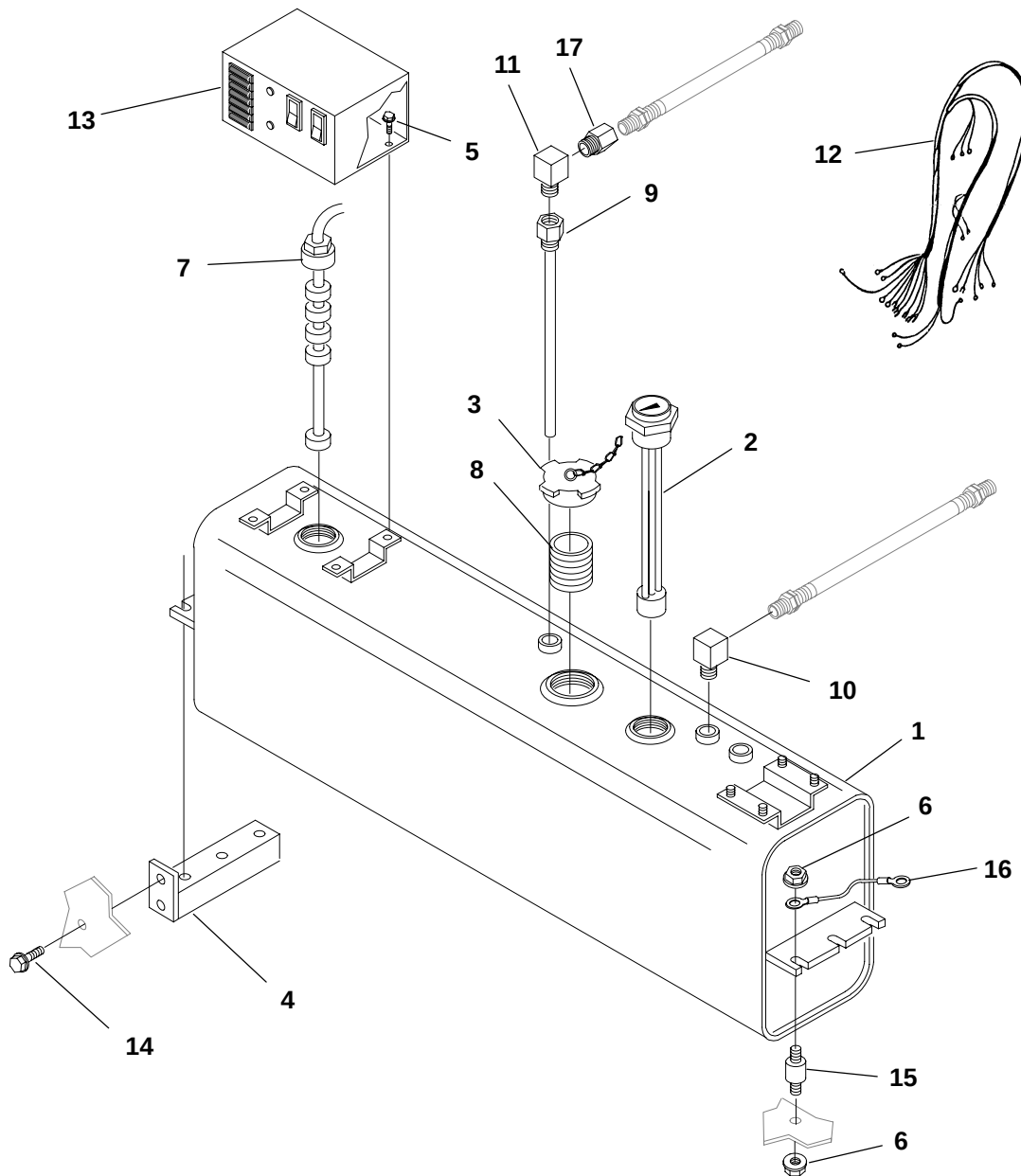
Day Tank With Pump and Control



Day Tank With Pump and Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	415-0727	1	Tank, Day (19 Gallons)	11	308-0913-06	1	Switch, Float (5 Float)
2	415-0565-15	1	Gauge, Liquid Level	12	505-0172	1	Nipple, Pipe – Close (2")
3	159-1208-01	1	Cap, Fuel	13	415-0566-15	1	Pipe, Suction
4	399-0117	1	Pump, Fuel Transfer (Includes Coupler) (P103)	14	505-0120	1	Elbow, Pipe – Street (3/8" x 90°)
	399-0121	1	Kit, Repair – Fuel Tank Pump (Includes Lip Seal, Bearings, Gasket, Drive Gear, Idle Gear and Coupler) (Not Illustrated)	15	505-0050	1	Elbow, Pipe – Street (1/2" x 90°)
	399-0122	1	Coupler, Pump (Drive Piece Between Motor and Pump) (Not Illustrated)	16	338-2800	1	Harness, Wiring Fuel Transfer Pump to Fuel Tank Control (5 Wire, 49-1/2")
	399-0123	1	Pump (Not Illustrated)		338-2809	1	Fuel Tank Control to Starter (2 Wire, 70")
	399-0124	1	Motor (Not Illustrated)	17	625-2141-01	1	Control, Fuel Tank (See Separate Page For Components)
5	159-1299	1	Bracket, Mounting	18	821-0030	2	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")
6	821-5002-04	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")	19	502-0942	1	Elbow, Hose – Brass – Barbed
7	870-0212	13	Nut, Locking – Hex Head (1/4-20)	20	402-0610	6	Isolator, Vibration
8	503-1660-04	1	Hose, Fuel (5/8" ID x 18")	21	337-2402	1	Cable, Ground (5-1/2")
9	503-0183	2	Clamp, Hose	22	505-0248	1	Elbow, Pipe – Street (1/2" x 45°)
10	502-0943	1	Connector, Hose				

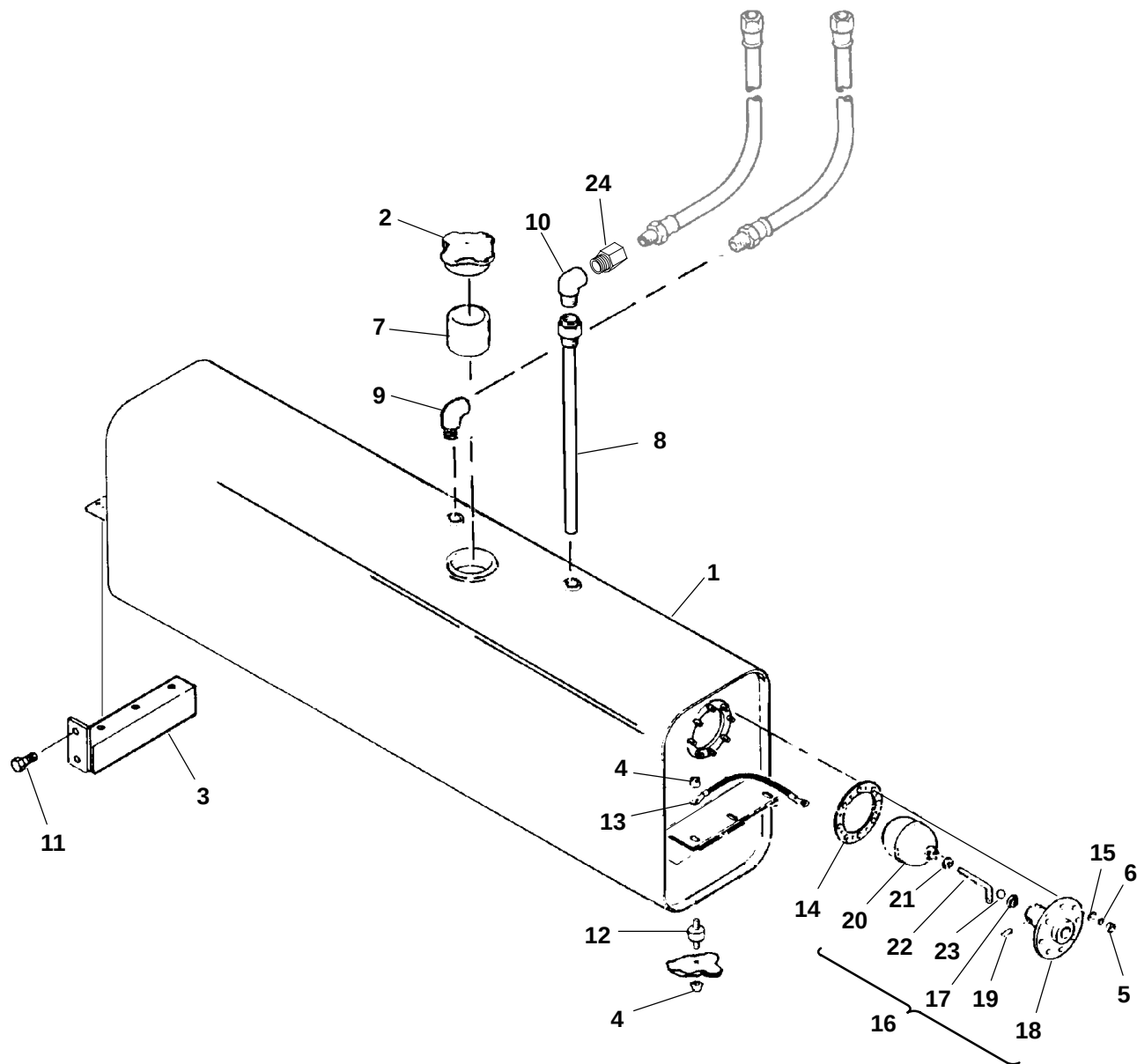
Day Tank With Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	415-0727	1	Tank, Day (19 Gallons)
2	415-0565-15	1	Gauge, Liquid Level
3	159-1208-01	1	Cap, Fuel
4	159-1299	1	Bracket, Mounting
5	821-5002-04	4	Screw, Self-Locking - Hex Washer Head (1/4-20 x 5/8")
6	870-0212	9	Nut, Locking - Hex Head (1/4-20)
7	308-0913-06	1	Switch, Float (5 Float)
8	505-0172	1	Nipple, Pipe - Close (2")
9	415-0566-15	1	Pipe, Suction
10	505-0120	1	Elbow, Pipe - Street (3/8" x 90°)
11	505-0050	1	Elbow, Pipe - Street (1/2" x 90°)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	338-2809	1	Harness, Wiring - Fuel Tank Control to Starter (2 Wire, 70")
13	625-2141-01	1	Control, Fuel Tank (See Separate Page For Components)
14	821-0030	2	Screw, Self-Locking - Hex Washer Head (3/8-16 x 1")
15	402-0610	6	Isolator, Vibration
16	337-2402	1	Cable, Ground (5-1/2")
17	505-0248	1	Elbow, Street (1/2" x 45°)

Day Tank Without Pump and Control

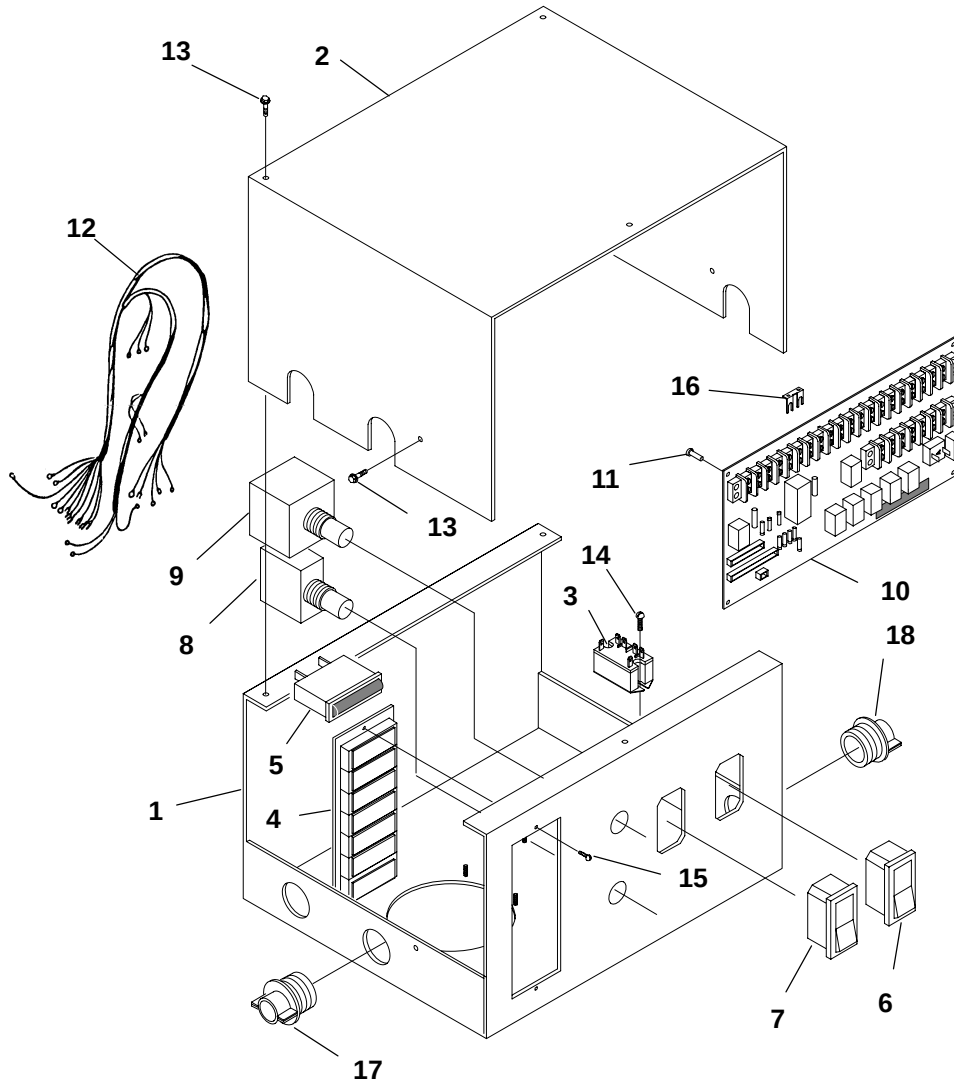


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	415-0728	1	Tank, Day (19 Gallons)
2	159-1208-01	1	Cap, Fuel
3	159-1299	1	Bracket, Mounting
4	870-0212	9	Nut, Locking - Hex Head (1/4-20)
5	867-0028	8	Nut, Hex (#10-32)
6	853-1008	8	Washer, Lock - W/ET (#10)
7	505-0172	1	Nipple, Pipe - Close (2")
8	415-0566-15	1	Pipe, Suction
9	505-0120	1	Elbow, Street - 90° (3/8")
10	505-0050	1	Elbow, Street - 90° (1/2")
11	821-0030	2	Screw, Self-Locking - Hex Washer Head (3/8-16 x 1")
12	402-0610	6	Isolator, Vibration
13	837-2402	1	Cable, Ground (5-1/2")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
14	415-0660	1	Gasket
15	526-0008	8	Washer, Flat (#10)
16	415-0657	1	Valve Assembly, Float (Includes Parts Marked *)
17	415-0656-21	1	*Seal, Ring
18	415-0650-01	1	*Body, Valve
19	415-0651-19	1	*Pin, Roll
20	415-0652	1	*Ball, Float
21	864-0011	1	*Nut, Jam (1/4-20)
22	415-0654	1	*Arm, Float
23	415-0655	1	*Ball, Steel
24	505-0248	1	Elbow, Street (1/2" x 45°)

* - Parts Included in 415-0657 Float Valve Assembly

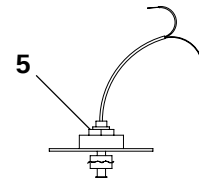
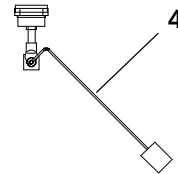
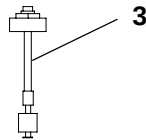
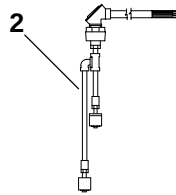
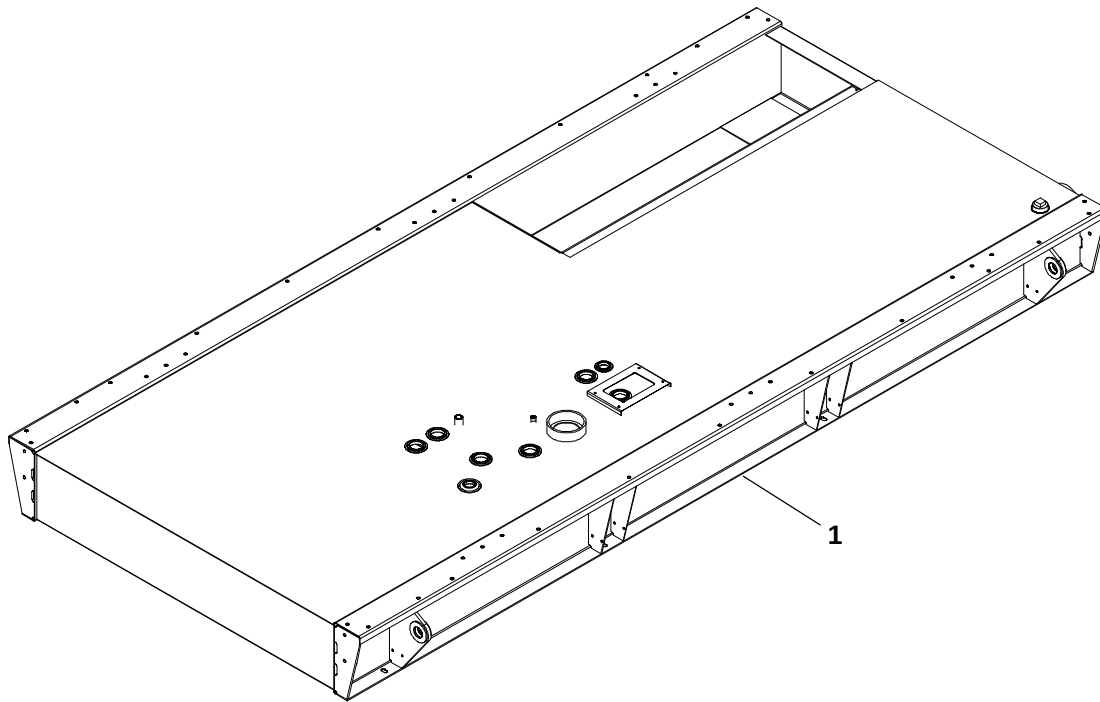
Fuel Tank Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	625-2141-01	1	Control, Fuel Tank – Complete (Includes Parts Listed Below)	9	320-1654	1	Breaker, Circuit – AC (Double Pole) (CB101)
1	319-0486	1	Box, Control	10	300-3464	1	Board, Printed Circuit
2	319-0485	1	Cover, Box	11	870-0458	4	Spacer, Board – Printed Circuit
3	307-2677-02	1	Relay, Pump (K130)	12	338-2382	1	Harness, Wiring – Control Box
4	322-0403-02	1	Light, Assembly, Indicator – 7 Light (Includes Wiring Harness)	13	815-0350	5	Screw, Self-Tapping – Slotted Hex Washer Head (#10-32 x 3/8")
5	322-0369-02	1	Lamp, Indicator – Replacement	14	812-0075	2	Screw, Machine – Round Head (#8-32 x 1/4")
6	308-0912	1	Switch, Rocker (On/Off/ Emergency Run) (S102)	15	815-0385	2	Screw, Machine – Round Head (#6-32 x 1/2")
7	308-0852	1	Switch, Rocker (Reset/Off/Test) (S111)	16	332-2605	2	Jumper, Terminal
8	320-1653	1	Breaker, Circuit – DC (Single Pole) (CB107)	17	331-0027	2	Connector, Romex
				18	331-0042	1	Connector, Knockout

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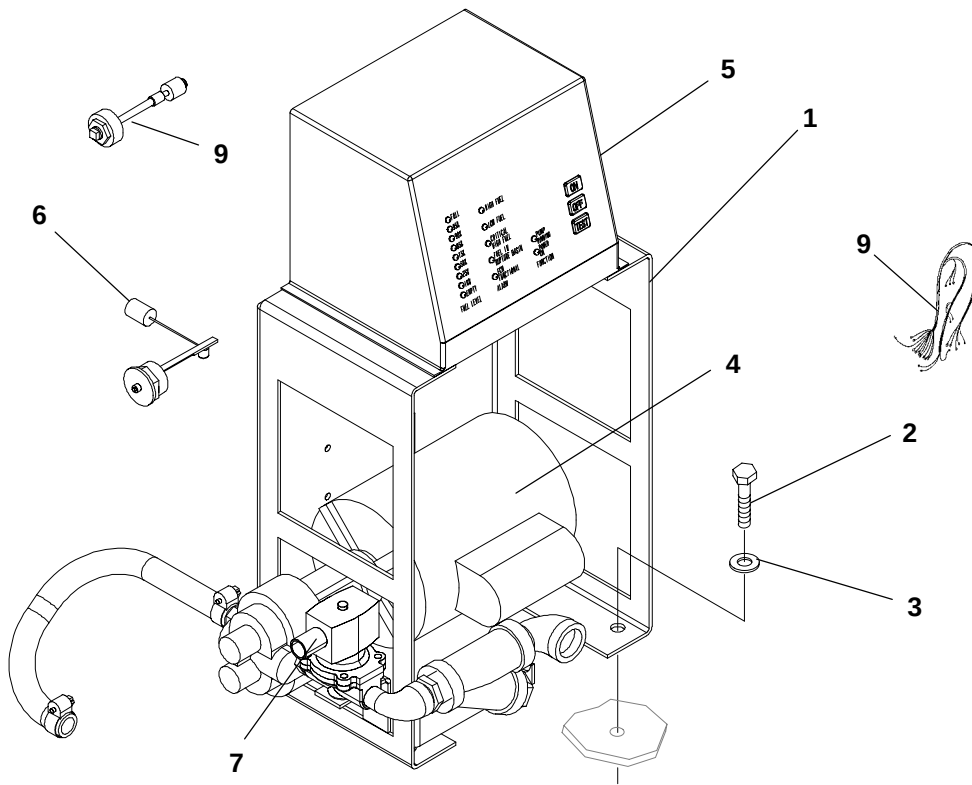
Fuel Tank



Fuel Tank

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Tank, Fuel	2			Switch, Level – High and Low
			Standard (Chicago)		309-0701-01	1	300 Gallon Tank
	159-1573-01	1	300 Gallon		309-0701-02	1	400 Gallon Tank
	159-1573-02	1	400 Gallon		309-0701-03	1	500 Gallon Tank
	159-1573-03	1	500 Gallon		309-0701-04	1	600 Gallon Tank
	159-1573-04	1	600 Gallon		309-0701-05	1	660 Gallon Tank
	159-1573-05	1	660 Gallon		309-0701-07	1	720 Gallon Tank
	159-1573-06	1	720 Gallon		309-0701-08	1	1470 Gallon Tank
	159-1577-01	1	1470 Gallon	3			Switch, Level – Rupture Basin
			California		309-0702-01	1	300 Gallon Tank
	159-1573-11	1	300 Gallon		309-0702-02	1	400 Gallon Tank
	159-1573-12	1	400 Gallon		309-0702-03	1	500 Gallon Tank
	159-1573-13	1	500 Gallon		309-0702-04	1	600 Gallon Tank
	159-1573-14	1	600 Gallon		309-0702-05	1	660 Gallon Tank
	159-1573-15	1	660 Gallon		309-0702-07	1	720 Gallon Tank
	159-1573-16	1	720 Gallon		309-0702-08	1	1470 Gallon Tank
			Florida	4			Gauge – Fuel Level
	159-1573-21	1	300 Gallon		420-0609-01	1	300 Gallon Tank
	159-1573-22	1	400 Gallon		420-0609-02	1	400 Gallon Tank
	159-1573-23	1	500 Gallon		420-0609-03	1	500 Gallon Tank
	159-1573-24	1	600 Gallon		420-0609-04	1	600 Gallon Tank
	159-1573-25	1	660 Gallon		420-0609-05	1	660 Gallon Tank
	159-1573-26	1	720 Gallon		420-0609-07	1	720 Gallon Tank
					420-0609-08	1	1470 Gallon Tank
				5			Switch, Level – Critical High
					309-0708-01	1	300-500 Gallon Tank
					309-0708-02	1	600-850 Gallon Tank

Fuel Transfer Pump and Control

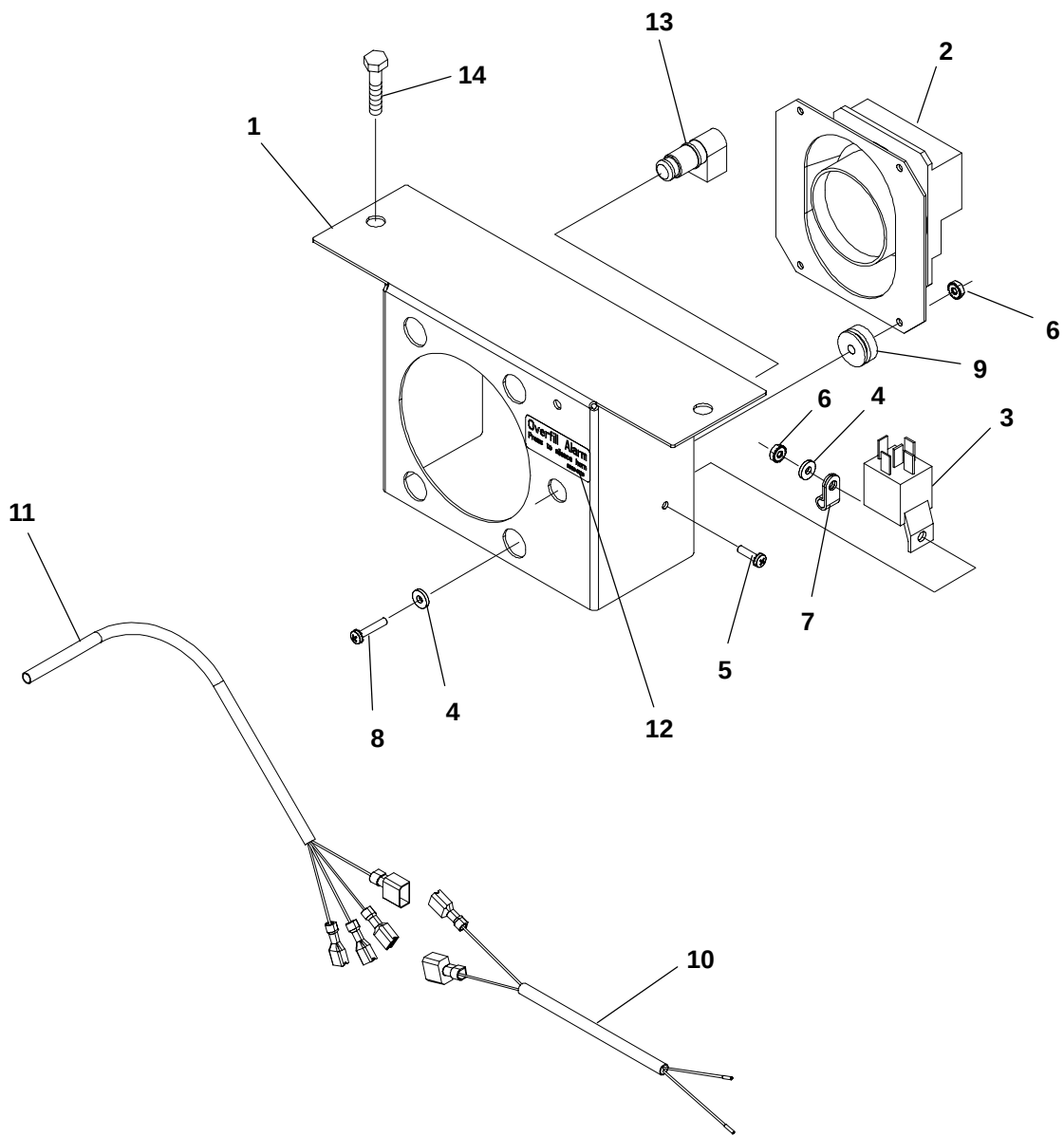


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Pump, Fuel – Assembly 2 GPM	6			Gauge – Float
	149-2699-01	1	300 Gallon Tank		420-0610-01	1	300 Gallon Tank
	149-2699-02	1	400 Gallon Tank		420-0610-02	1	400 Gallon Tank
	149-2699-03	1	500 Gallon Tank		420-0610-03	1	500 Gallon Tank
	149-2699-04	1	600 Gallon Tank		420-0610-04	1	600 Gallon Tank
	149-2699-05	1	660 Gallon Tank		420-0610-05	1	660 Gallon Tank
	149-2699-06	1	720 Gallon Tank		420-0610-06	1	720 Gallon Tank
			4 GPM	7	504-0252	1	Valve, Solenoid – Fuel
	149-2699-11	1	300 Gallon Tank	8	309-0703-01	1	Switch, Level – Critical (Not Illustrated)
	149-2699-12	1	400 Gallon Tank	9	338-4426	1	Harness, Wiring
	149-2699-13	1	500 Gallon Tank	10	331-0027	1	Connector, Romex (Not Illustrated)
	149-2699-14	1	600 Gallon Tank				
	149-2699-15	1	660 Gallon Tank				
	149-2699-16	1	720 Gallon Tank				
2	526-0399-59	4	Washer, Flat (M6)				
3	821-6002-03	4	Screw, Hex Head (M6 x 1 x 16)				
4			Pump, Fuel – With Motor				
	149-2710-01	1	2 GPM				
	149-2710-02	1	4 GPM				
5	300-5815	1	Control, Pump – ECM				

NOTE: Pump Control Assembly Includes:

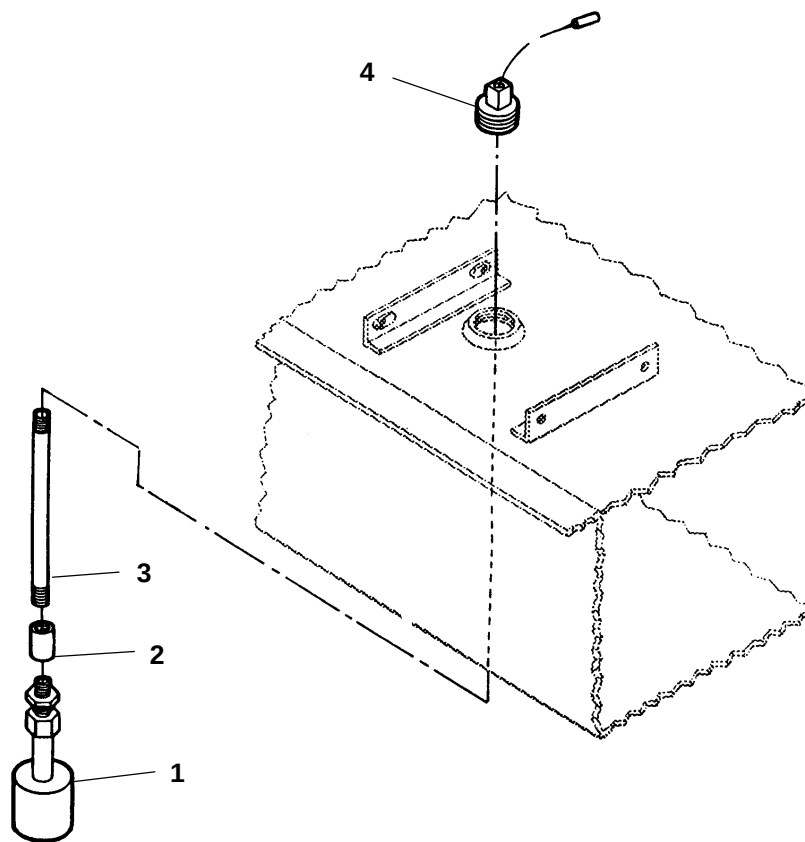
503-1660	1	Hose (5/8" ID x 7/8" OD x 508mm)
502-0942	1	Barb, Hose – 90° (3/8 x 5/8)
502-0993	1	Barb, Hose – Straight (3/8 x 5/8)

Overfill Alarm



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	333-0683	1	Alarm – Assembly – 24VDC (Includes all the Following Except Two Mounting Screws)	7	518-0340	1	Clamp, Cable
				8	815-0651	4	Screw, Machine – Pan Head – Cross Recessed – W/ET (#6-32 x .75)
1	319-5056-02	1	Box, Control	9	508-1195	4	Grommet
2	333-0682	1	Horn, Alarm	10	338-4360-01	1	Harness, Alarm
3	307-2817-02	1	Relay	11	338-4360-02	1	Harness, Alarm
4	526-0399-05	9	Washer, Flat	12	098-8120	1	Label, Information
5	815-0937	1	Screw, Machine – Pan Head – Cross Recessed – W/ET (#6-32 x .50)	13	308-0973	1	Switch, Pushbutton
				14	821-6002-03	2	Screw, Hex Head – Mounting (M6 x 1 x 16)
6	870-0183	5	Nut, Hex – W/ET				

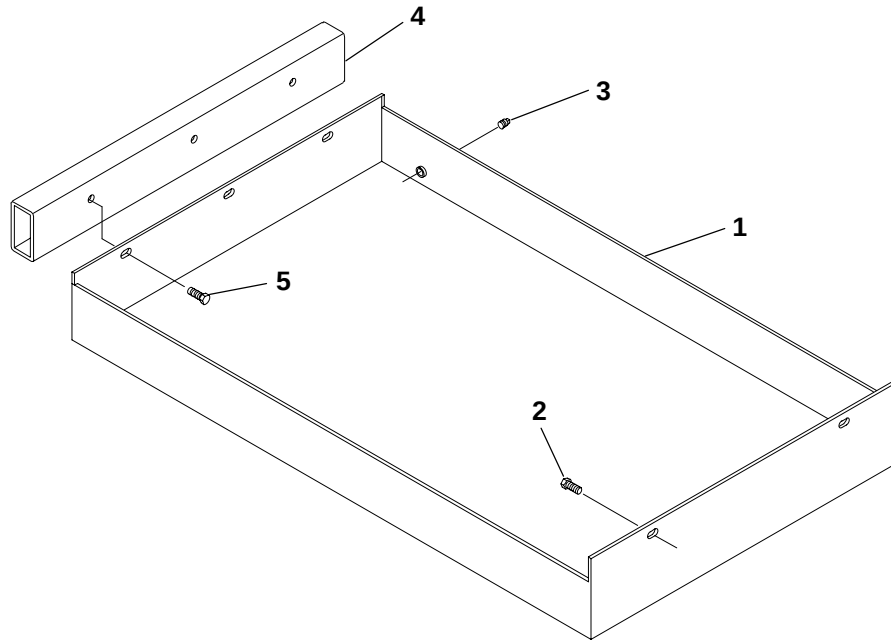
Low Fuel Alarm



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	308-0963-01	1	Switch, Basin
2	505-0026	1	Coupling, Pipe (1/8")
3	505-1458-04		Nipple, Pipe (1/8")

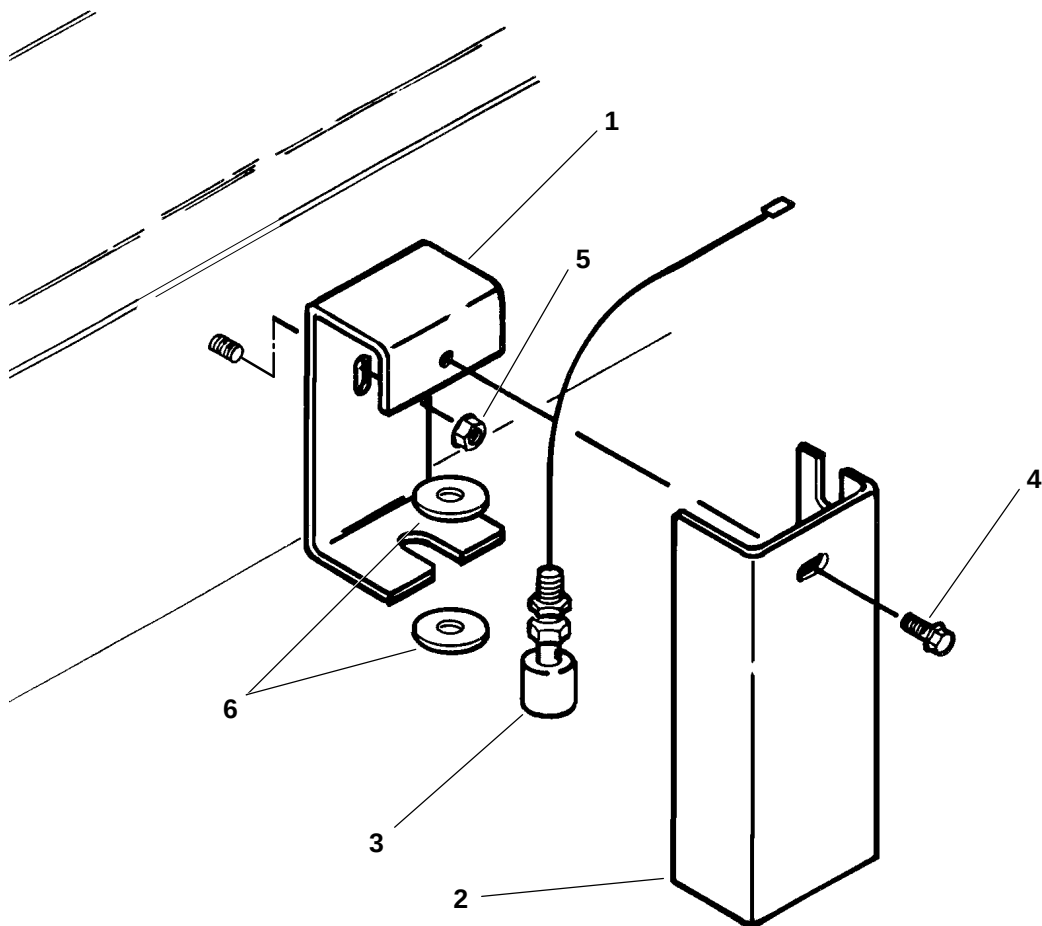
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	505-1050-01	1	Plug, Pipe – Square Head (1-1/4")

Rupture Basin



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	159-1390	1	Basin, Rupture	4	130-3660-01	1	Spacer, Shock Absorber
2	815-0236	2	Screw, Cap – Hex Head – Thread Forming (5/16-18 x 5/8")	5	815-0836	3	Screw, Cap – Hex Head – Thread Forming (5/16-18 x 1-1/2")
3	505-0055	1	Plug, Pipe – Square Head (1/4")				

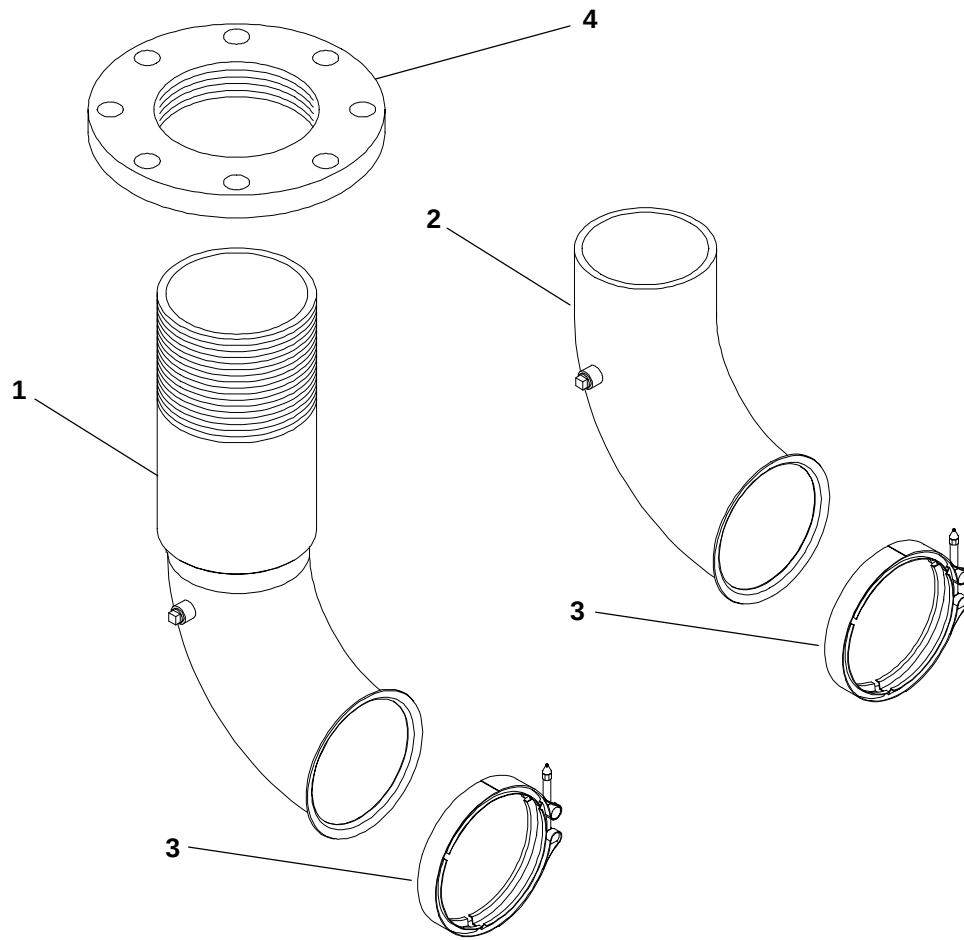
Float Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0490	1	Bracket, Mounting
2	319-0489	1	Cover, Switch
3	308-0916-01	1	Switch, Float – Basin
4	821-5002-03	1	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")

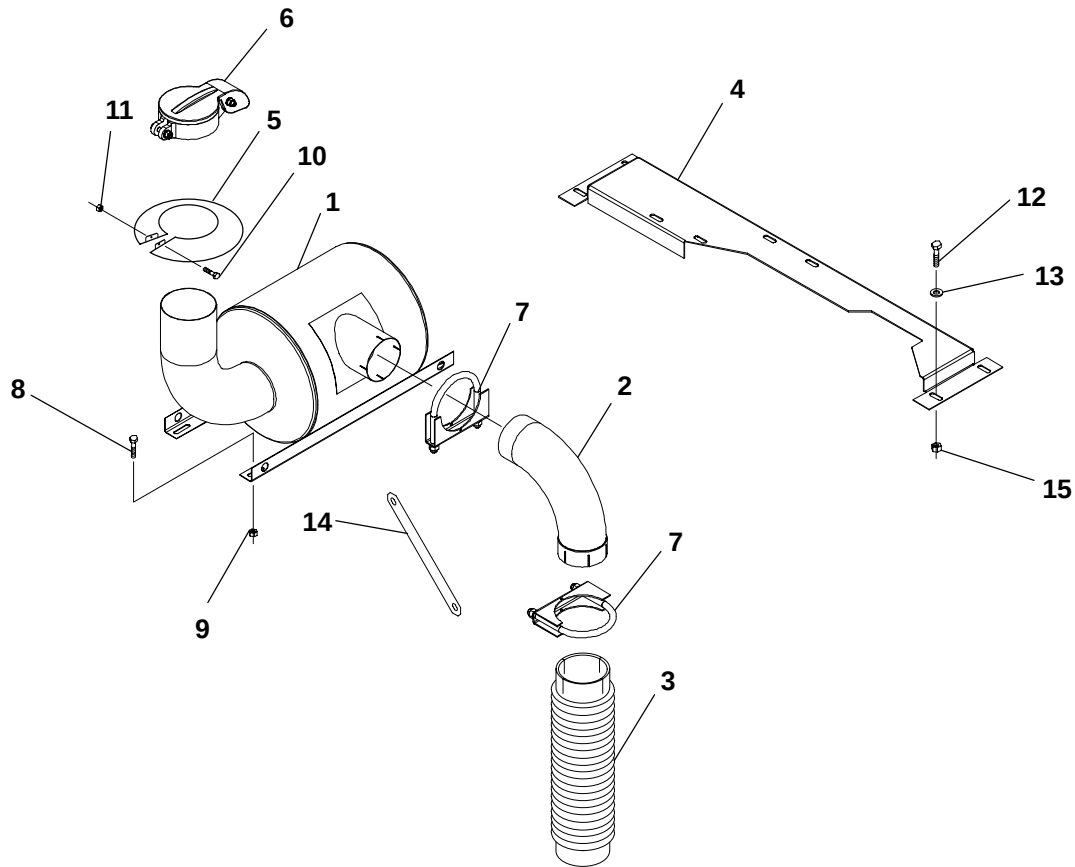
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	870-0257	1	Nut, Locking – Hex Flange (5/16-18)
6	526-0029	2	Washer, Flat (3/8")

Exhaust Elbow



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-2409-04	1	Elbow, Exhaust (5" OD With Threads)	3	503-1575	1	Clamp, V-Band
2	155-1241-01	1	Elbow, Exhaust (5" OD Without Threads)	4	155-0658-01	1	Flange, Companion (5") (Not Used on All Models)

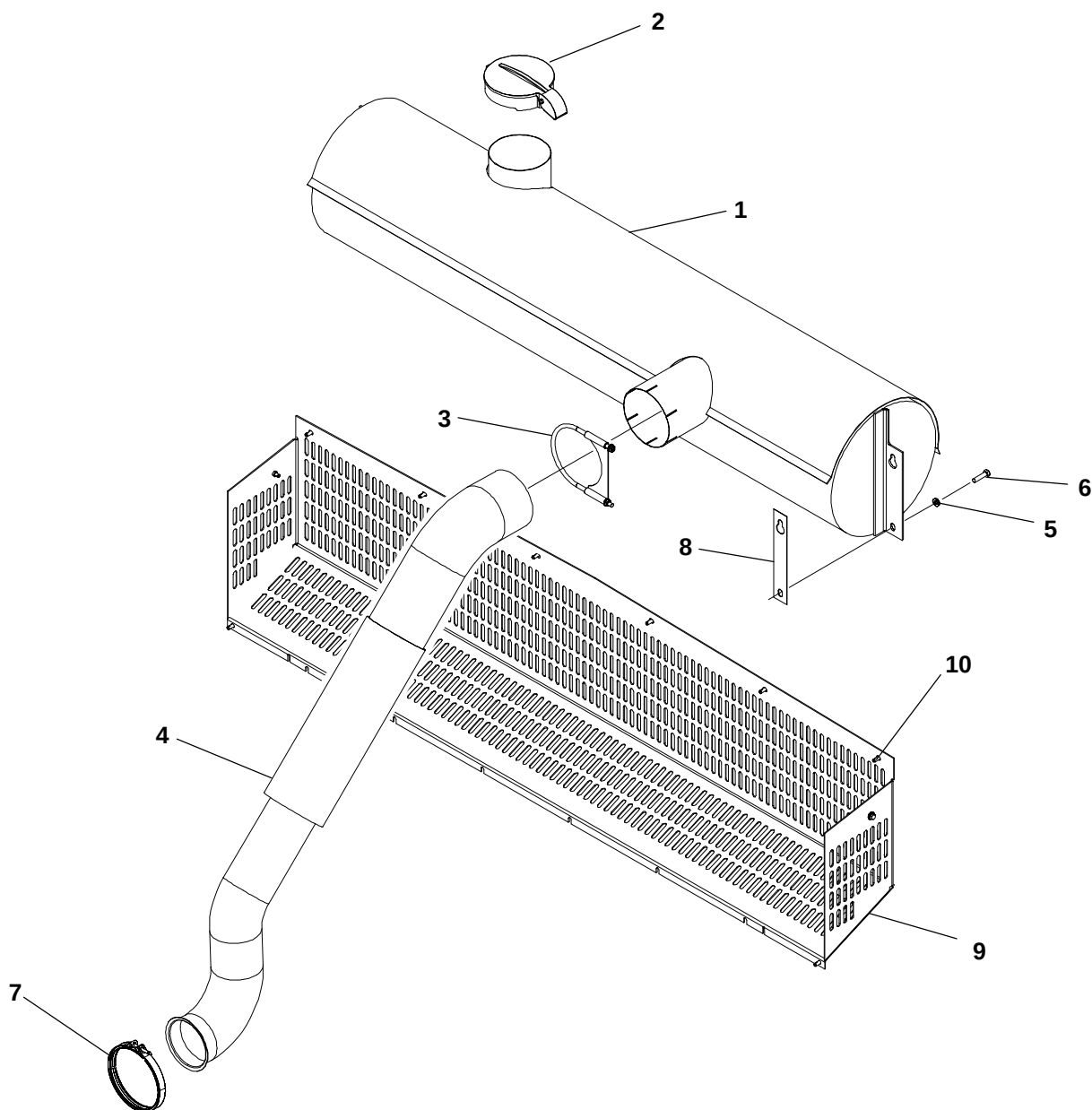
Muffler With F183 Enclosure



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-3540	1	Silencer
2	155-3510	1	Elbow, Muffler
3	155-2441	1	Tubing, Flexible
4	155-3509-02	2	Bracket, Muffler
5	155-3139	1	Shield, Rain
6	155-2062-06	1	Cap, Rain
7	155-2159	3	Clamp, Muffler
8	821-0033	4	Screw, Locking – Hex Head (7/16-14 x .75)

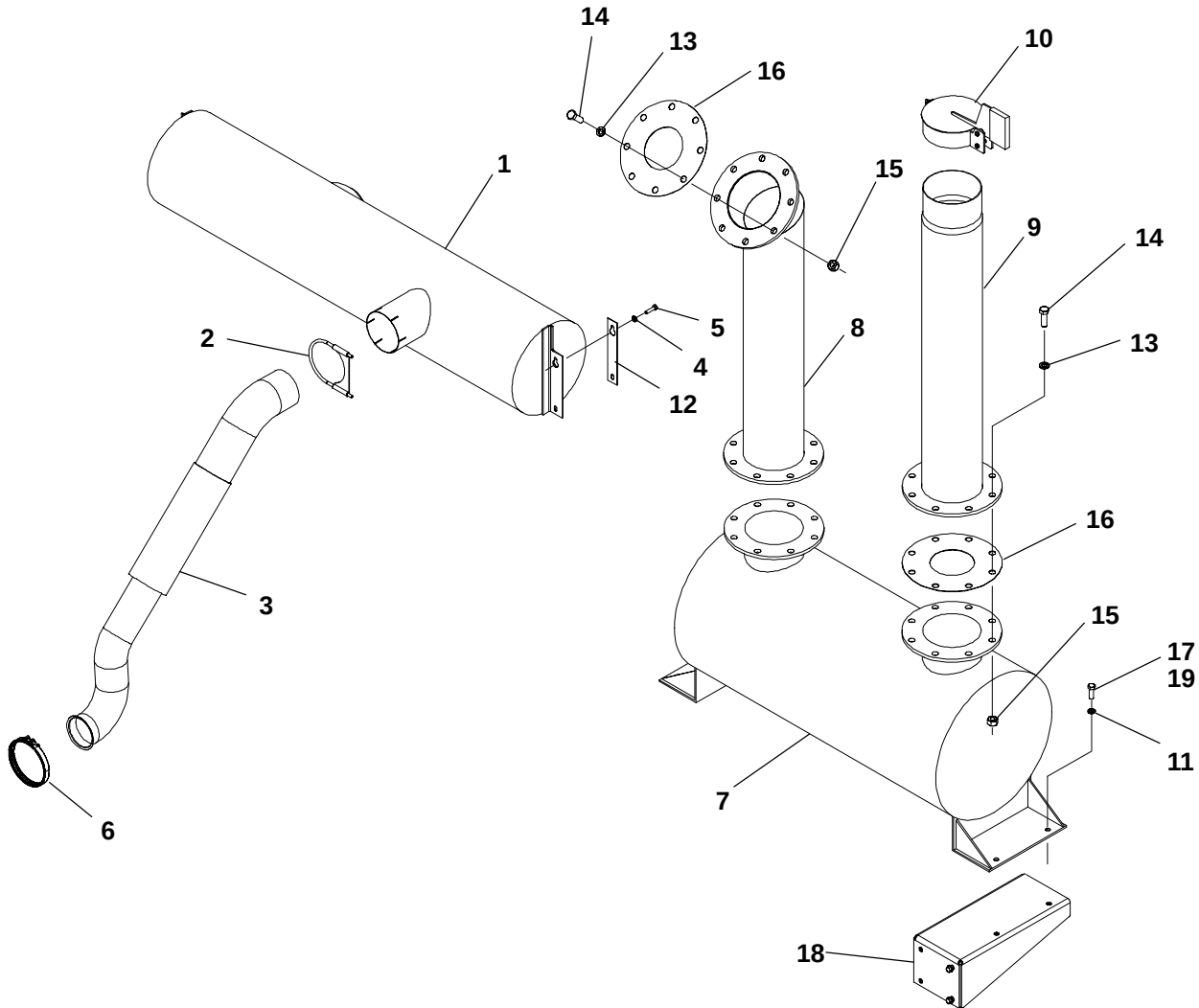
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	870-0437	4	Nut, Locking (7/16-14)
10	821-5000-05	1	Screw, Hex Head (#10-32)
11	870-0320	1	Nut, Whizlock (#10-32)
12	800-0048	8	Screw, Cap – Hex Head (3/8-16 x 3/4)
13	526-0030	8	Washer, Flat
14	130-5555-02	1	Bracket, Exhaust
15	870-0281	8	Nut, Self-Locking – Flange (3/8-16)

Muffler
F200, F201, F203, F204
Weather Protective, Level I Sound Enclosure



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4022	1	Muffler	7	503-1575	1	Clamp, V-Band
2	155-2062-06	1	Cap, Rain	8	155-4064	2	Gasket, Muffler
3	155-3543	1	Clamp, Exhaust	9	155-4162	1	Guard, Muffler Aluminum
4	155-4053	1	Pipe, Exhaust		155-4059-02	1	Steel
5	526-0174	6	Washer, Flat	10	821-6007-02	10	Screw, Hex Head (M8 x 1.25 x 20)
6	800-2089	6	Screw, Cap – Hex Head (M10 x 1.5 x 40)				

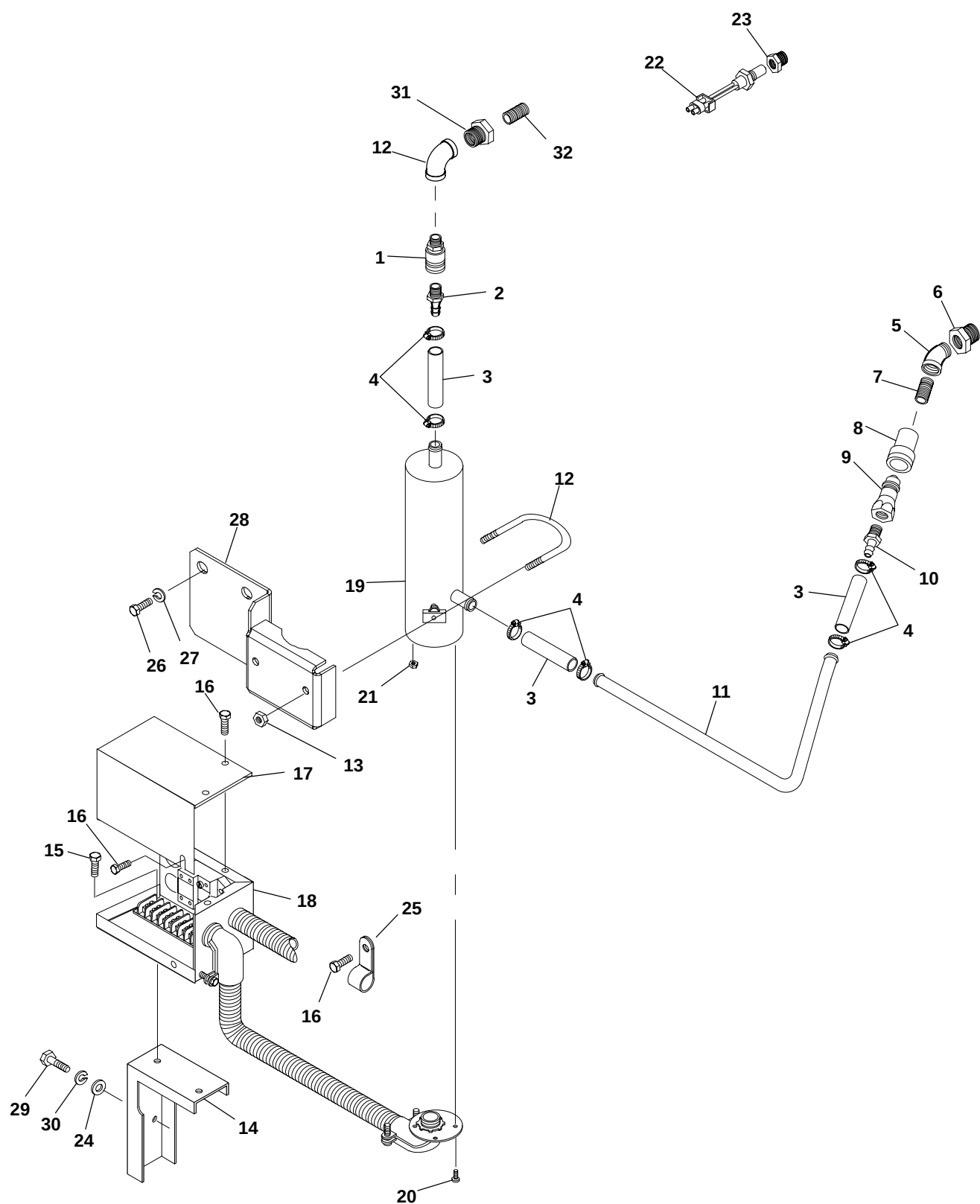
**Muffler
Critical
F202, F204
Level II Sound Enclosure**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4062	1	Muffler	12	155-4064	2	Gasket, Muffler
2	155-3543	1	Clamp, Exhaust	13	850-0079	24	Washer, Spring – Lock (3/4)
3	155-4053	1	Pipe, Exhaust	14	800-0156	24	Screw, Cap – Hex Head (3/4-10 x 2.25)
4	526-0174	6	Washer, Flat	15	862-0008-01	24	Nut, Hex – Heavy (3/4-10)
5	800-2089	6	Screw, Cap – Hex Head (M10 x 1.5 x 40)	16	155-2500	3	Gasket, Exhaust
6	503-1575	1	Clamp, Hose	17	800-2111	4	Screw, Cap – Hex Head (M12 x 1.75 x 25) – 48 and 72 Hour Tank
7	155-4047	1	Muffler – Critical	18	155-4048-02	2	Bracket, Muffler) – 12 and 24 Hour Tank
8	155-4045	1	Pipe, Exhaust (8" x 45°)	19	800-2114	8	Screw, Cap – Hex Head (M12 x 1.75 x 40) – 12 and 24 Hour Tank
9	155-4026	1	Tailpipe, Exhaust (8")				
10	155-3554	1	Cap, Rain				
11			Washer, Flat (M12)				
	526-2140	4	48 and 72 Hour Tank				
	526-2140	8	12 and 24 Hour Tank				

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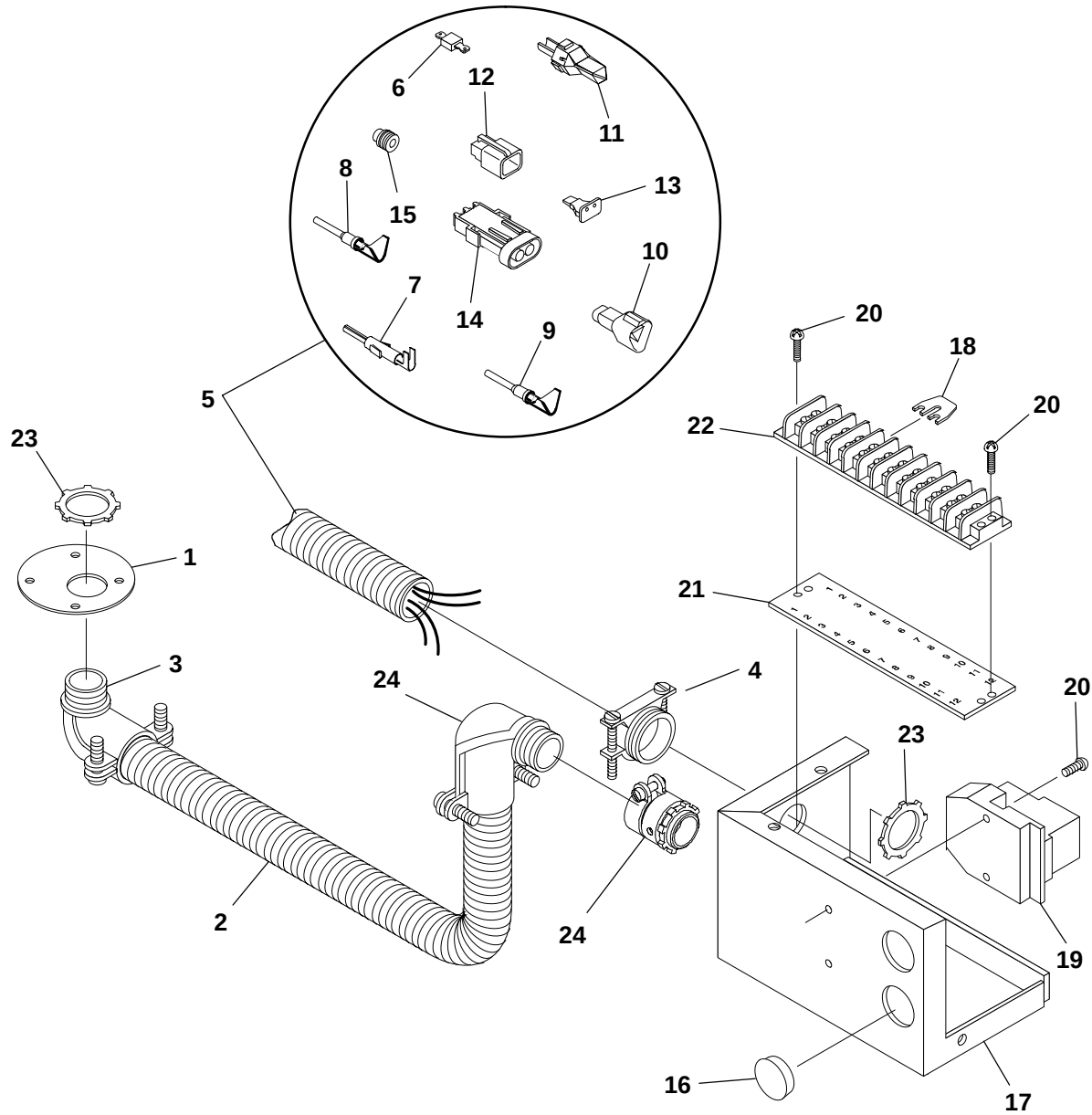
Coolant Heater



Coolant Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-1259	1	Coupler, Coolant Heater (1/2")	19			Heater, Coolant
2	502-1257	1	Connector, Hose Barb (For 3/4" ID Hose)		333-0634-01	1	4990 Watt
					333-0634-02	1	6420 Watt
3	503-1634-01	3	Hose, Silicon Rubber (3/4" ID x 4")	20	815-0539	3	Screw, Machine – Round Head Cross Recessed W/IT (#8-32 x 5/8")
4	503-2157-01	6	Clamp, Hose				
5	505-0050	2	Elbow, Pipe – 90° (1/2")	21	870-0131	3	Nut, Hex W/ET (#10-32)
6	505-0022	1	Bushing, Reducer (1" to 1/2")	22	309-0649	1	Thermostat (S11)
7	505-0100	1	Nipple, Pipe (1/2")	23	502-1336	1	Bushing, Reducer (1/2" x 3/8")
8	502-1260	1	Coupler, Coolant Heater	24	526-0029	2	Washer, Flat (3/8")
9	502-1261	1	Nipple, Coolant Heater (1/2")	25	332-3196	2	Clamp, "J" – Retainer – Wiring Harness (Coolant Heater Control Box Wiring Harness To Engine and Main Engine Harness)
10	502-0827	1	Connector, Hose Barb (For 3/4" ID Hose)				
11	130-5532-02	1	Tube, Coolant Heater				
12	155-3021	1	Clamp, Coolant Heater				
13	870-0550-09	2	Nut, Hex Flange (3/8-16)	26	800-0130	2	Screw, Cap – Hex Head (5/8-11 x 1")
14	319-2918	1	Bracket, Terminal Block	27	850-0070	2	Washer, Lock – Spring (5/8")
15	821-5004-02	2	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")	28	130-5528-02	1	Bracket, Coolant Heater
16	821-5002-03	5	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	29	800-0054	2	Screw, Cap – Hex Head (3/8-16 x 2")
17	319-2815	1	Cover, Control	30	850-0103	2	Washer, Lock – Spring (3/8")
18	–	1	Control Assembly, Coolant Heater (See Separate Page For Components)	31	505-0231	1	Coupling, Reducer
				32	505-0101	1	Nipple, Close

Coolant Heater Control

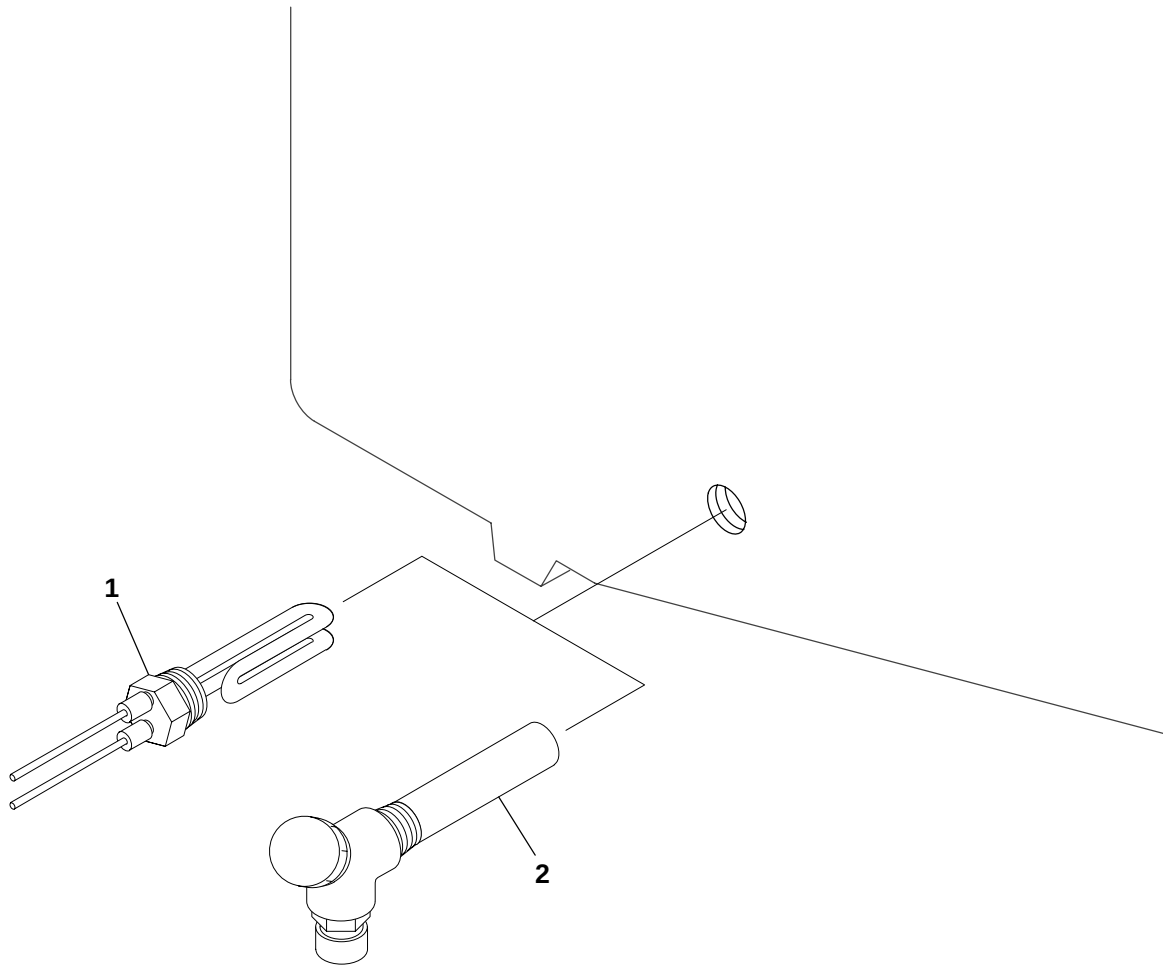


Coolant Heater Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4552	1	Cover, Coolant Heater	11	323-1502	1	*Wedge, Receptacle (Used with J3)
2	338-3923-07	1	Harness, Wiring – AC – Coolant Heater (From Coolant Heater Bottom To Coolant Heater Control Box) (Includes Conduit Connectors) (23")	12	323-1504	1	*Connector, Plug (2 Pin) (P4)
3	331-0554	2	Connector, Conduit – 90° (3/4")	13	323-1500	1	*Wedge, Plug (Used With P4)
4	331-0042	1	Connector, Wiring – DC – Romex (3/4")	14	323-1652	1	*Connector, Plug – 2-Way (2 Pin) (P11)
5	338-3385	1	Harness, Wiring – DC – Engine Heater (From Coolant Heater Control Box To Engine And Main Engine Harness) (Includes Parts Marked *)	15	323-1445	2	*Seal, Cable (Used With P11)
6	357-0030	1	*Rectifier (6 Amp) (Located at K11 end of harness)	16	517-0138-02	3	Plug, Hole (Fits 1-1/8" Hole)
7	323-1718	2	*Pin, Contact	17	319-2814	1	Box, Terminal
8	323-1491	3	*Pin, Contact	18	332-3440	1	Jumper, Terminal
9	323-1492	2	*Socket, Contact	19	307-2859	1	Relay, Power – 24VDC (K11)
10	323-1494	1	*Connector, Receptacle (3 Pin) (J3)	20	815-0464	4	Screw, Machine – Round Head Cross Recessed W/IT – Thread Forming (#8-32 x 1")
				21	332-1469	1	Strip, Marker
				22	332-1468	1	Block, Terminal – 12 Place (TB1)
				23	331-0555	2	Nut, Connector Lock (3/4-14)
				24	331-0570	1	Connector, Conduit

*-Parts Included in 338-3385 DC Engine Heater Wiring Harness

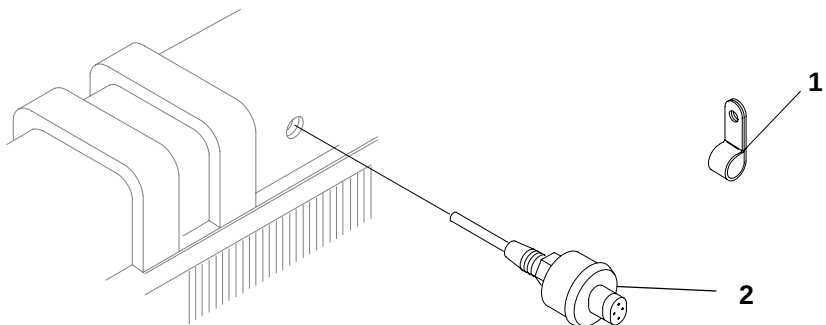
Oil Pan Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater, Oil (300 Watt)
	333-0407-02	1	120 Volt
	333-0407-04	1	240 Volt
	333-0407-06	1	120 Volt – With 3 Conductor HPN Cord and Plug Set

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	333-0407-05	1	Heater, Oil (300 Watt, 480 Volt)

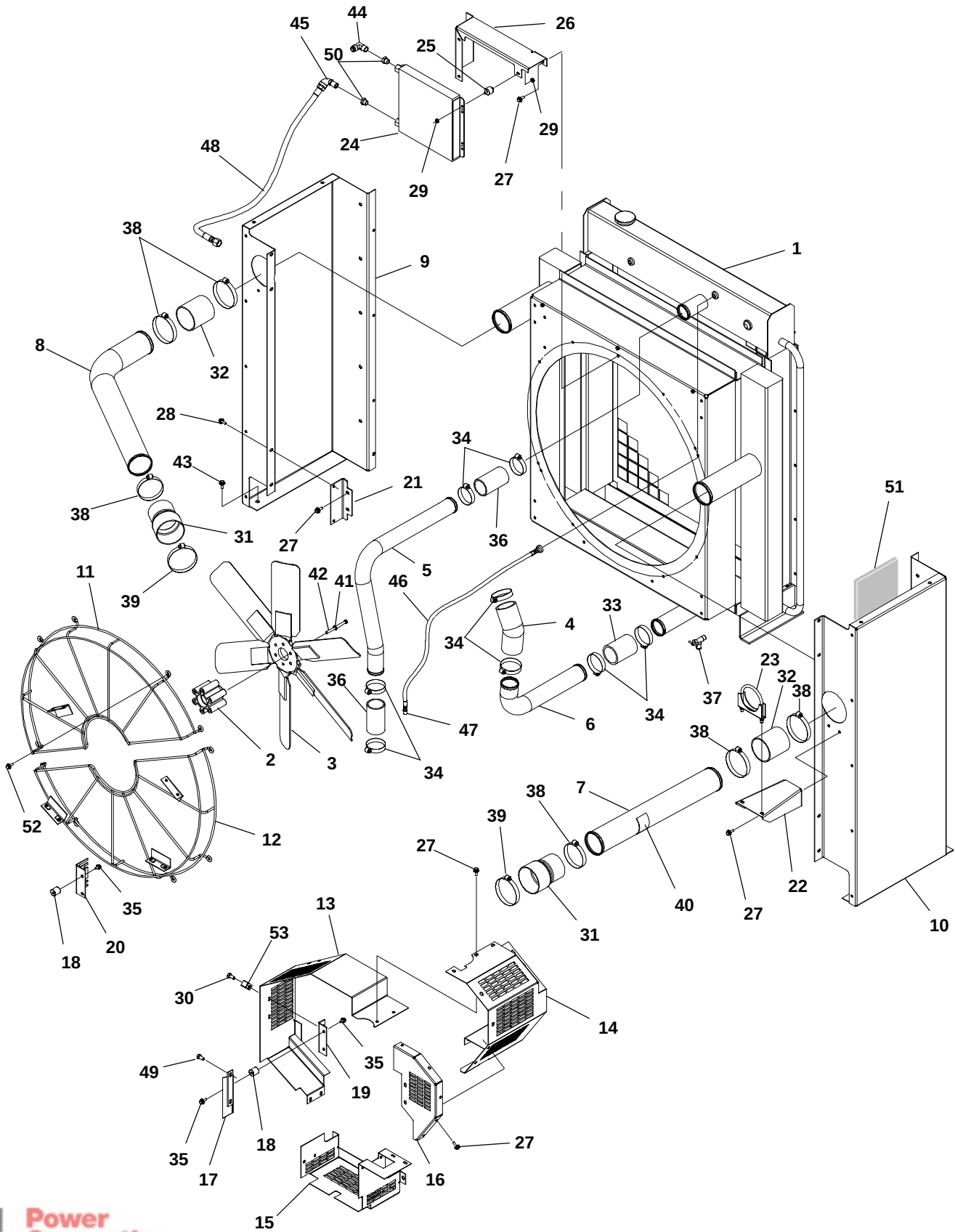
Low Coolant Level Sender



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	518-0548-08	2	Clamp, Wiring Harness

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	193-0468	1	Sender, Low Coolant Level

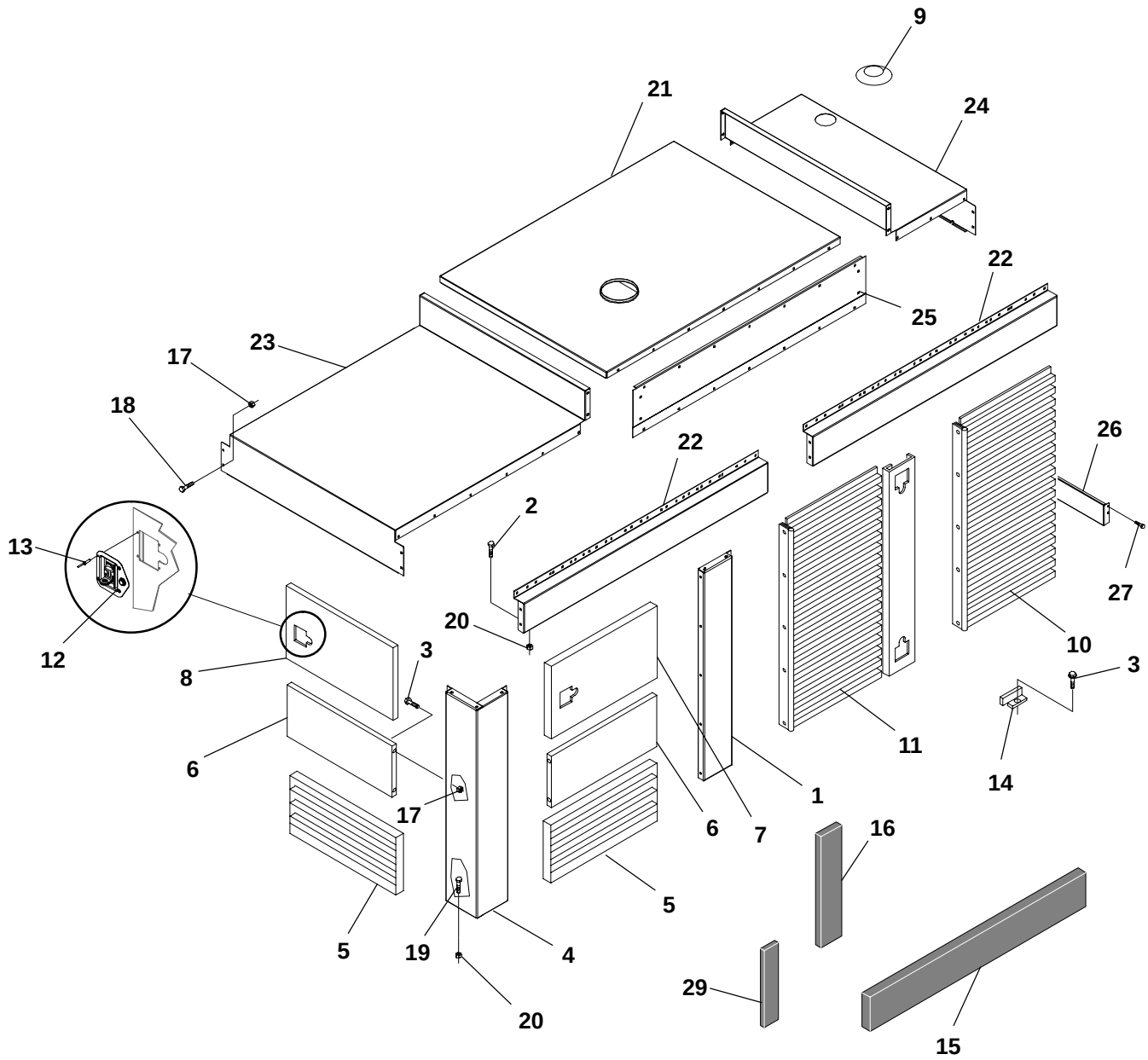
Radiator



Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5444	1	Radiator (Includes Radiator Cap, Sight Glass and Overflow Hose)	28	821-6007-02	10	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)
	130-5481	1	Cap, Radiator – 10 PSI	29	870-0212	6	Nut Hex (1/4-20)
	130-5482	1	Sight Glass	30	821-5002-04	8	Screw, Hex Head (1/4-20 x .63)
	503-0276	-	Hose, Overflow – Bulk (Order by the Foot – 5 Feet Required)	31	502-1292	2	Connect, Tube – Turbo
2	130-3931	1	Spacer, Fan	32	502-1384	2	Hose, Radiator
3	130-4534	1	Fan, Engine	33	503-1708	1	Hose, Radiator
4	503-1811	1	Elbow, Radiator – 30°	34	503-1872-04	8	Clamp, Hose
5	130-4378	1	Tube, Radiator – Inlet	35	821-5003-01	8	Screw, Hex Head (5/16-18 x .50)
6	130-5445-02	1	Tube, Radiator – Outlet	36	503-1379-02	2	Hose, Radiator
7	130-5447-01	1	Tube, Air – Outlet	37	504-0176	1	Valve, Oil Drain
8	130-5446-01	1	Tube, Air – Intake	38	503-1872-06	6	Clamp, Hose
9	130-5454-02	1	Guard, Radiator (Right Hand)	39	503-1872-07	2	Clamp, Hose
10	130-5455-02	1	Guard, Radiator (Left Hand)	40	098-7451	1	Label, Caution
11	130-3932-01	1	Guard, Fan (Right Hand)	41	526-0026	6	Washer, Flat (3/8)
12	130-3932-02	1	Guard, Fan (Left Hand)	42	800-0064	6	Screw, Cap – Hex Head (3/8-16 x 4.50)
13	130-5449-02	1	Guard, Belt (Right Hand)	43	821-5004-02	6	Screw, Cap (3/8-16 x .75)
14	130-5450-02	1	Guard, Belt (Left Hand)	44	502-1043-05	1	Elbow, Adapter – Male
15	130-5451-02	1	Guard, Belt (Bottom)	45	505-0120	1	Elbow, Street – 90° (3/8)
16	130-5452-02	1	Guard, Belt (Back)	46	501-0551-01	1	Line, Flexible – Fuel
17	130-4075	1	Bracket, Guard	47	505-0007	1	Bushing, Reducer (1/4 x 1/8)
18	402-0070	4	Dampener, Vibration	48	501-0216	1	Line, Flexible – Fuel
19	130-4074	1	Bracket, Belt Guard	49	800-2085	2	Screw, Cap – Hex Head (M10 x 1.5 x 20)
20	130-5456-02	1	Bracket, Guard	50	505-0019	2	Bushing, Reducer (1/2 x 3/8)
21	130-5457-02	4	Bracket, Guard – Radiator	51	128-0117	1	Insulation, Foam
22	130-5459-02	2	Bracket, Tube	52	821-6003-03	10	Screw, Hex Head (M8 x 1.25 x 20)
23	155-3480	2	Clamp, Muffler	53	518-0548-08	1	Clamp, Hose
24	130-5480	1	Cooler, Fuel				
25	402-0508	3	Isolator, Vibration				
26	130-5475-02	1	Bracket, Fuel Cooler				
27	821-6003-02	35	Screw, Hex Head (M8 x 1.25 x 20)				

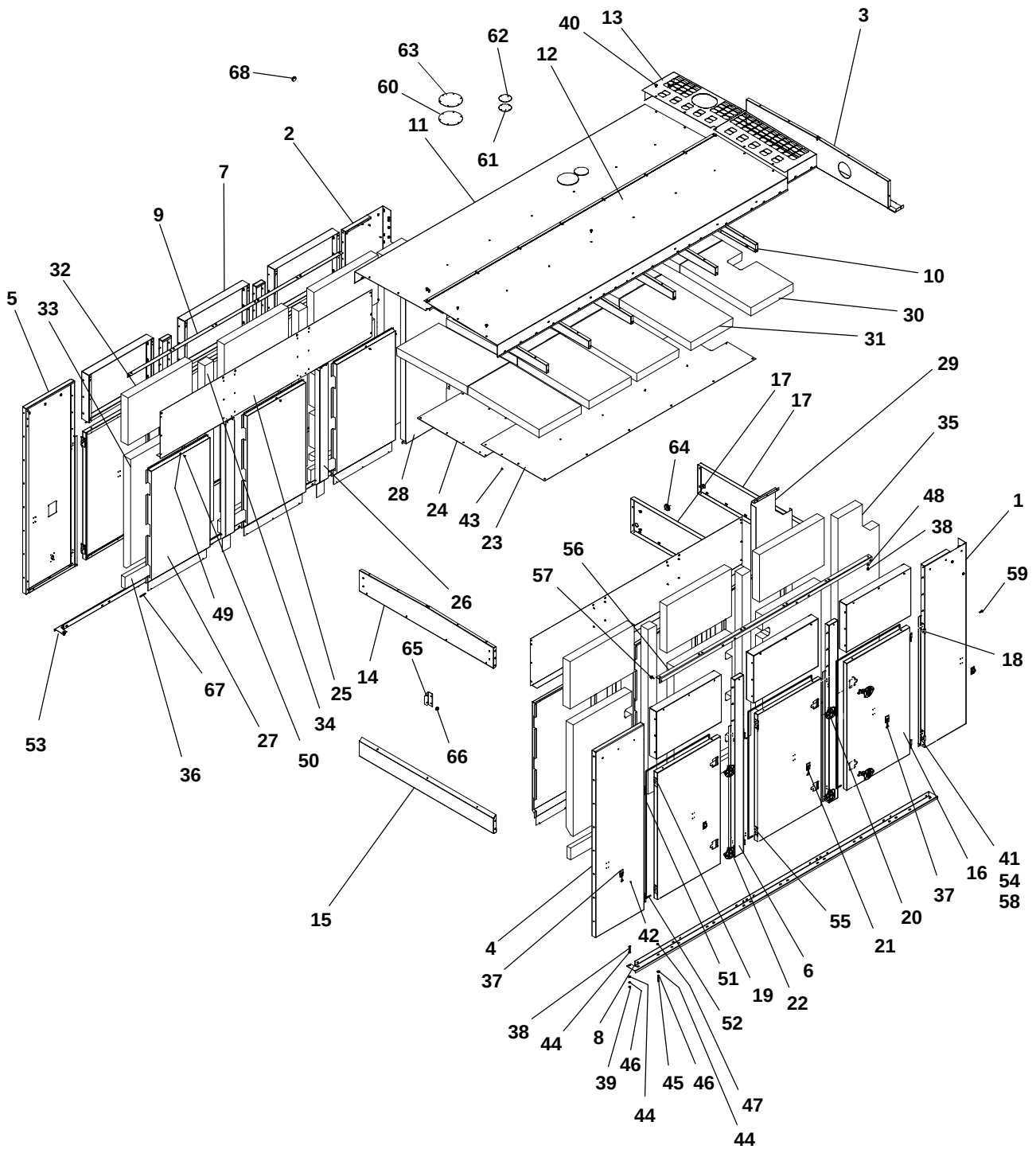
Enclosure (F183)



Enclosure (F183)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-4110	2	Post, Housing – Center	18	816-0098	62	Bolt, Carriage (5/16-18 x .62)
2	821-5004-02	10	Screw, Hex (3/8-16 x .75)	19	520-0544	14	Stud, Generator Mounting
3	821-5003-03	57	Screw, Hex (5/16-18 x .75)	20	870-0281	32	Nut, Self-Locking – Flange (3/8-16)
4	405-4111	2	Post, Housing – Rear	21	405-6950-02	1	Roof, Enclosure
5	405-4104	3	Grille	22	405-6943-02	4	Roof, Enclosure – Side
6	405-4112	3	Post, Housing – Rear	23	405-6946-02	1	Roof, Enclosure – Rear
7	405-4107	2	Door – Side	24	405-6947-02	1	Roof, Enclosure – Front
8	405-4106	1	Door – Control	25	405-6949-02	2	Roof, Enclosure – Side
9	517-0245	1	Plug	26	130-5527-02	1	Bracket, Radiator
10	405-4404	2	Door, Grille – Right	27	821-6007-02	2	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)
11	405-4405	2	Door, Grille – Left	28	130-4848	–	Insulation, Exhaust – Bulk (Order by the Foot 17 Feet Required) (Not Illustrated)
12	406-0972-02	7	Latch, Door	29	128-0154-01	1	Insulation, Foam (4.25 x 18)
13	818-0231-02	28	Rivet, Pop				
14	405-3980	2	Stop, Housing Door				
15	128-0154	4	Insulation, Foam (58.0 x 6.75)				
16	128-0154-06	1	Insulation, Foam				
17	870-0257	74	Nut, Self-Locking – Flange (5/16-18)				

Enclosure Steel

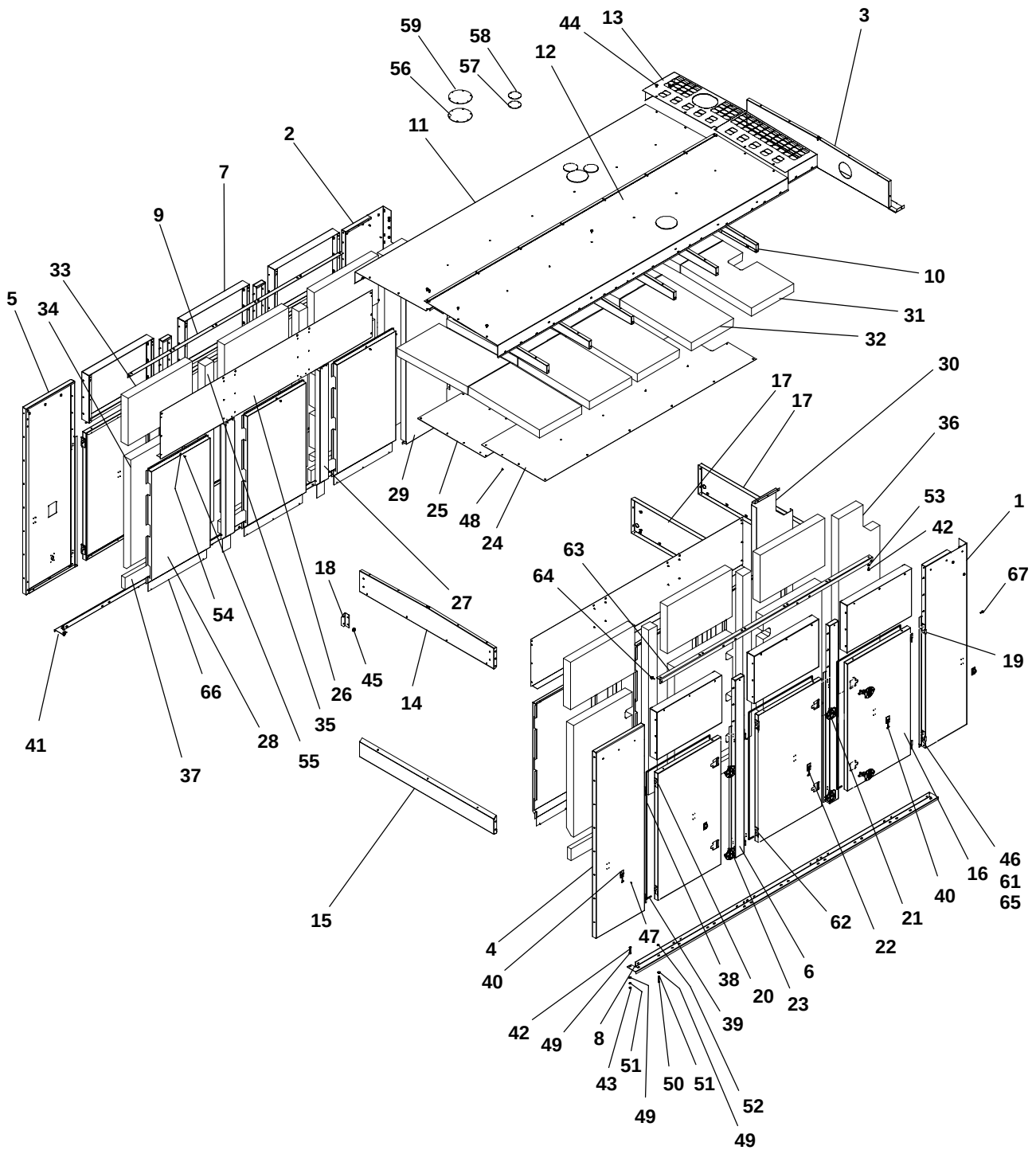


Enclosure Steel

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7501-02	1	Panel, Enclosure – RH Rear	40			Screw, Hex Head (M8 x 1.25 x 20)
2	405-7500-02	1	Post, Enclosure – LH Rear				Without 150 MPH Wind Rating
3	155-4134-02	1	Shield, Heat – Exhaust		821-6007-02	90	With 150 MPH Wind Rating
4	405-7737-02	1	Panel, Enclosure – RH Front				Rivet, Dome Head – Blind (1/4)
5	405-7738-02	1	Panel, Enclosure – LH Front	41	818-1157	96	Rivet, Pop
6	405-7739-02	4	Post, Enclosure – Center	42			Without 150 MPH Wind Rating
7	405-7741-02	6	Crossmember, Panel – Upper		818-0231-02	64	With 150 MPH Wind Rating – Not Insulated
8	405-7577-02	1	Stiffener, Enclosure				With 150 MPH Wind Rating – Insulated
9	405-7742-02	2	Stiffener, Roof				* Rivet, Pop
10	405-7740-02	6	Stiffener, Enclosure – Truss		818-0231-02	88	Washer, Flat (7/16)
11	405-7735-04	1	Panel, Roof – LH				Screw, Cap – Hex Head (M10 x 1.5 x 40)
12	405-7734-04	1	Panel, Roof – RH				Washer, Lock – Split (M10)
13	405-7736-02	1	Panel, Roof – Rear				Nut, Hex (M10 x 1.5)
14	405-7743-02	1	Panel, Duct – Upper	43	818-0231-06	72	Washer, Flat (M8)
15	405-7744-02	1	Panel, Duct – Lower	44	526-0249-01	40	* Washer, Lock – W/ET (M6)
16			Door, Enclosure	45	800-2089	26	* Screw, Hex Head (M6 x 1 x 16)
	405-7574-02	6	Without 150 MPH Wind Rating	46	850-2010	32	Seal, Door
				47	860-2009	14	Seal, Door
	405-7574-04	6	With 150 MPH Wind Rating	48	526-2106	12	Stiffener, Enclosure
17	405-7604-02	1	Crossmember, Panel – Rear	49	853-2006	6	Hinge
18	406-0970-01	3	Hinge	50	821-6002-03	6	Hinge
19	406-0970-02	3	Hinge	51	405-7812-01	6	Edge, Drip – Enclosure
20			Latch	52	405-7812-02	6	Screw, Hex Head (M6 x 1.0 x 16)
	406-0972-02	6	Without 150 MPH Wind Rating	53	405-7577-04	1	Screw, Hex – Flange Head (#8 x 5/8)
				54	406-0970-03	3	Clip, Panel
	406-0972-02	12	With 150 MPH Wind Rating	55	406-0970-04	3	Gasket, Enclosure
21	406-1049-01	3	Catch, Door	56	405-7863-02	2	Gasket, Enclosure
22	517-0364	60	Plug, Hole	57	821-6006-01	40	Cover, Enclosure
23	405-7745	1	* Retainer, Insulation – Roof				Cover, Enclosure
24	405-7746	1	* Retainer, Insulation – Roof	58	800-6294	18	Grommet, Rubber
25	405-7616	2	* Retainer, Insulation – Side				Bracket, Duct – Stiffener – With 150 MPH Wind Rating
26	405-7617	4	* Retainer, Insulation – Post	59	406-0929	18	Nut, Locking – With 150 MPH Wind Rating
27	405-7618	6	* Retainer, Insulation – Door	60	405-7882	1	* Edging
28	405-7620	1	* Retainer, Insulation – Post	61	405-7883	2	Plug, Hole
29	405-7637	1	* Retainer, Insulation – Post	62	405-7885-02	2	
30	405-7626	1	* Insulation, Roof	63	405-7884-02	1	
31	405-6000-08	4	* Insulation, Panel – Roof	64	508-1102	1	
32	405-6000-09	6	* Insulation, Panel – Cross	65	405-7756-02	2	
33	405-7628	6	* Insulation, Door				
34	405-6000-10	4	* Insulation, Panel – Post	66	870-2055	4	
35	405-7630	2	* Insulation, Enclosure – Post				
36	405-6000-11	6	* Insulation, Panel, Door	67	508-1042-09	12	
37	406-1049-02	3	Catch, Door	68	517-0350	1	
38	821-6003-02	78	Screw, Hex Head (M8 x 1.25 x 20)				
39	870-2065-03	12	Nut, Hex – Flange				

* – Insulated Enclosures

Enclosure Aluminum

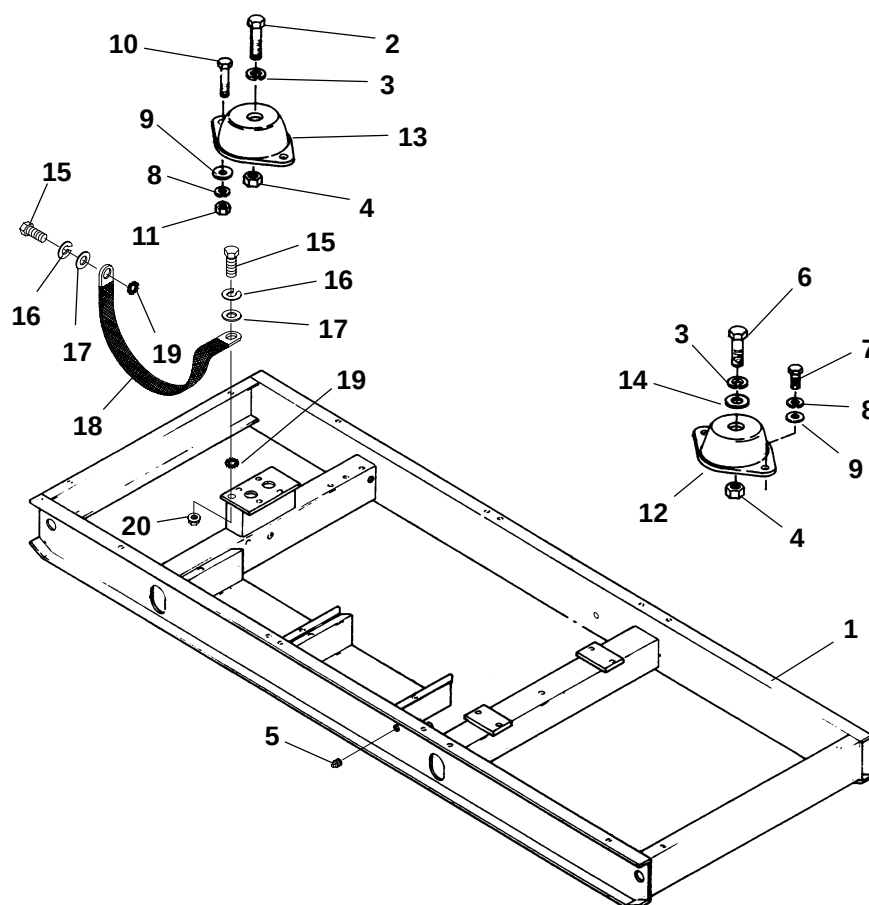


Enclosure Aluminum

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7838	1	Panel, Enclosure – RH Rear	39	405-7812-02	6	Seal, Door
2	405-7836	1	Post, Enclosure – LH Rear	40	406-1049-02	3	Catch, Door
3	405-7835	1	Shield, Heat – Exhaust	41	405-7842	4	Stiffener, Enclosure
4	405-7847	1	Panel, Enclosure – RH Front	42	821-6003-02	78	Screw, Hex Head (M8 x 1.25 x 20)
5	405-7848	1	Panel, Enclosure – LH Front	43	870-2065-03	12	Nut, Hex – Flange
6	405-7849	4	Post, Enclosure – Center	44	821-6007-02	98	Screw, Hex Head (M8 x 1.25 x 20)
7	405-7851	6	Crossmember, Panel – Upper	45	870-2055	4	Nut, Hex – Flange (M8 x 1.25)
8	405-7577-02	2	Stiffener, Enclosure	46	818-1157	96	Rivet, Dome Head – Blind (1/4)
9	405-7742-02	2	Stiffener, Roof	47			Rivet, Pop
10	405-7740-02	6	Stiffener, Enclosure – Truss		818-0231-02	88	Not Insulated
11	405-7845-02	1	Panel, Roof – LH		818-0231-02	144	Insulated
12	405-7844-02	1	Panel, Roof – RH	48	818-0231-06	72	* Rivet, Pop
13	405-7846	1	Panel, Roof – Rear	49	526-0249-01	34	Washer, Flat (7/16)
14	405-7853	1	Panel, Duct – Upper	50	800-2089	26	Screw, Cap – Hex Head (M10 x 1.5 x 40)
15	405-7854	1	Panel, Duct – Lower	51	850-2010	26	Washer, Lock – Split (M10)
16	405-7840	6	Door, Enclosure	52	860-2009	8	Nut, Hex (M10 x 1.5)
17	405-7843	1	Crossmember, Panel – Rear	53	526-2106	12	Washer, Flat (M8)
18	405-7855	2	Bracket, Duct – Stiffener	54	853-2006	6	* Washer, Lock – W/ET (M6)
19	406-0970-01	3	Hinge	55	821-6002-03	6	* Screw, Hex Head (M6 x 1 x 16)
20	406-0970-02	3	Hinge	56	405-7882	1	Gasket, Enclosure
21	406-0972-02	12	Latch	57	405-7883	1	Gasket, Enclosure
22	406-1049-01	3	Catch, Door	58	405-7837	1	Cover, Enclosure
23	517-0364	60	Plug, Hole	59	405-7839	1	Cover, Enclosure
24	405-7745	1	* Retainer, Insulation – Roof	60	405-7577-04	1	Stiffener, Enclosure
25	405-7746	1	* Retainer, Insulation – Roof	61	406-0970-03	3	Hinge
26	405-7616	2	* Retainer, Insulation – Side	62	406-0970-04	3	Hinge
27	405-7617	4	* Retainer, Insulation – Post	63	405-7850	2	Edge, Drip – Enclosure
28	405-7618	6	* Retainer, Insulation – Door	64	821-6006-01	28	Screw, Hex Head (M6 x 1.0 x 16)
29	405-7620	1	* Retainer, Insulation – Post	65	800-6294	18	Screw, Hex – Flange Head (#8 x 5/8)
30	405-7637	1	* Retainer, Insulation – Post	66	405-7879	12	Gasket, Door
31	405-7626	1	* Insulation, Roof	67	406-0929	18	Clip, Panel
32	405-6000-08	4	* Insulation, Panel – Roof				
33	405-6000-09	6	* Insulation, Panel – Cross				
34	405-7628	6	* Insulation, Door				
35	405-6000-10	4	* Insulation, Panel – Post				
36	405-7630	2	* Insulation, Enclosure – Post				
37	405-6000-11	6	* Insulation, Panel, Door				
38	405-7812-01	6	Seal, Door				

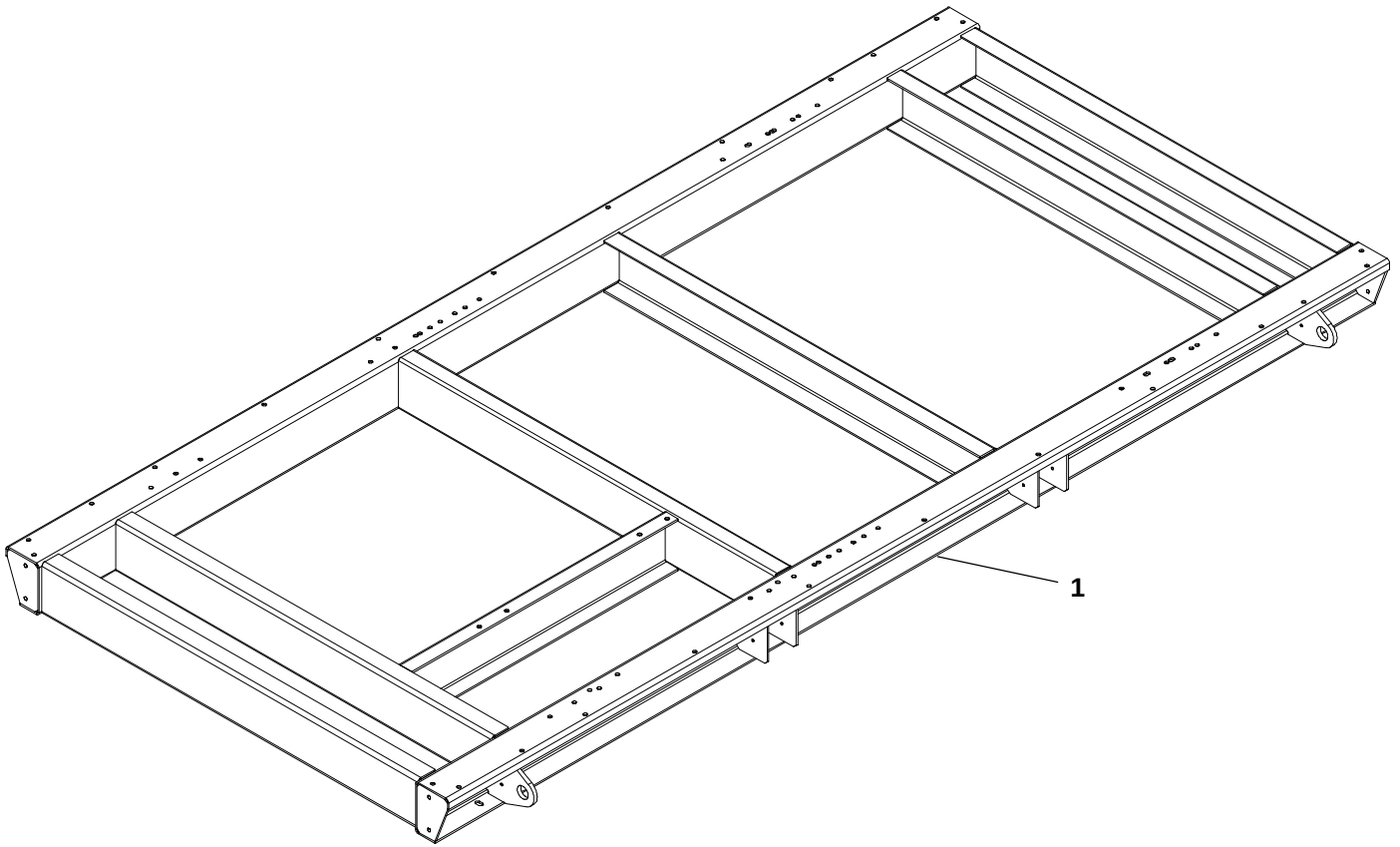
* – Insulated Enclosures

Skid



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4530-02	1	Skid	12	402-0779-07	2	Cushion, Vibration – Generator End
2	800-0156	2	Screw, Cap – Hex Head (3/4-10 x 2-1/4")	13	402-0779-03	2	Cushion, Vibration – Engine End
3	850-0079	2	Washer, Lock – Spring (3/4")	14	526-0238-01	2	Washer, Flat (3/4")
4	862-0008	4	Nut, Hex (3/4-10)	15	800-2086	2	Screw, Cap – Hex Head (M10 x 25mm)
5	505-1379	1	Plug, Pipe (1/2")	16	850-2010	2	Washer, Lock – Spring (M10)
6	800-0155	2	Screw, Cap – Hex Head (3/4-10 x 2")	17	526-0030	2	Washer, Flat (3/8")
7	800-0090	4	Screw, Cap – Hex Head (1/2-13 x 1")	18	337-0090	1	Strap, Ground
8	850-0060	8	Washer, Lock – Spring (1/2")	19	856-0010	2	Washer, Lock – EIT (3/8")
9	526-0219	8	Washer, Flat (1/2")	20	870-2056	1	Nut, Self-Locking – Hex Head (M10)
10	800-0091	4	Screw, Cap – Hex Head (1/2-13 x 1-1/4")				
11	862-0016	4	Nut, Hex (1/2-13)				

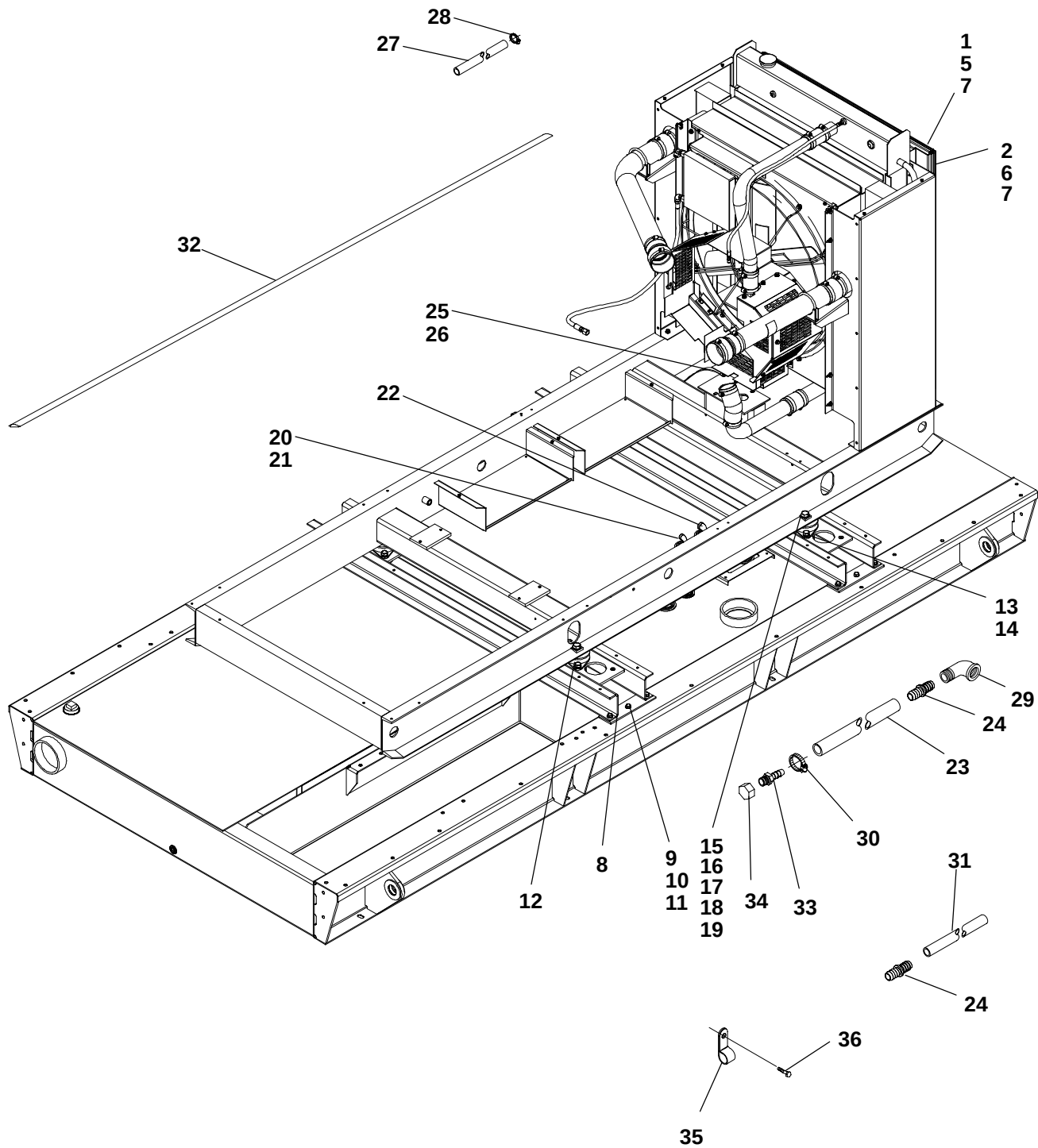
Lifting Skid



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-5034-02	1	Skid, Lifting

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
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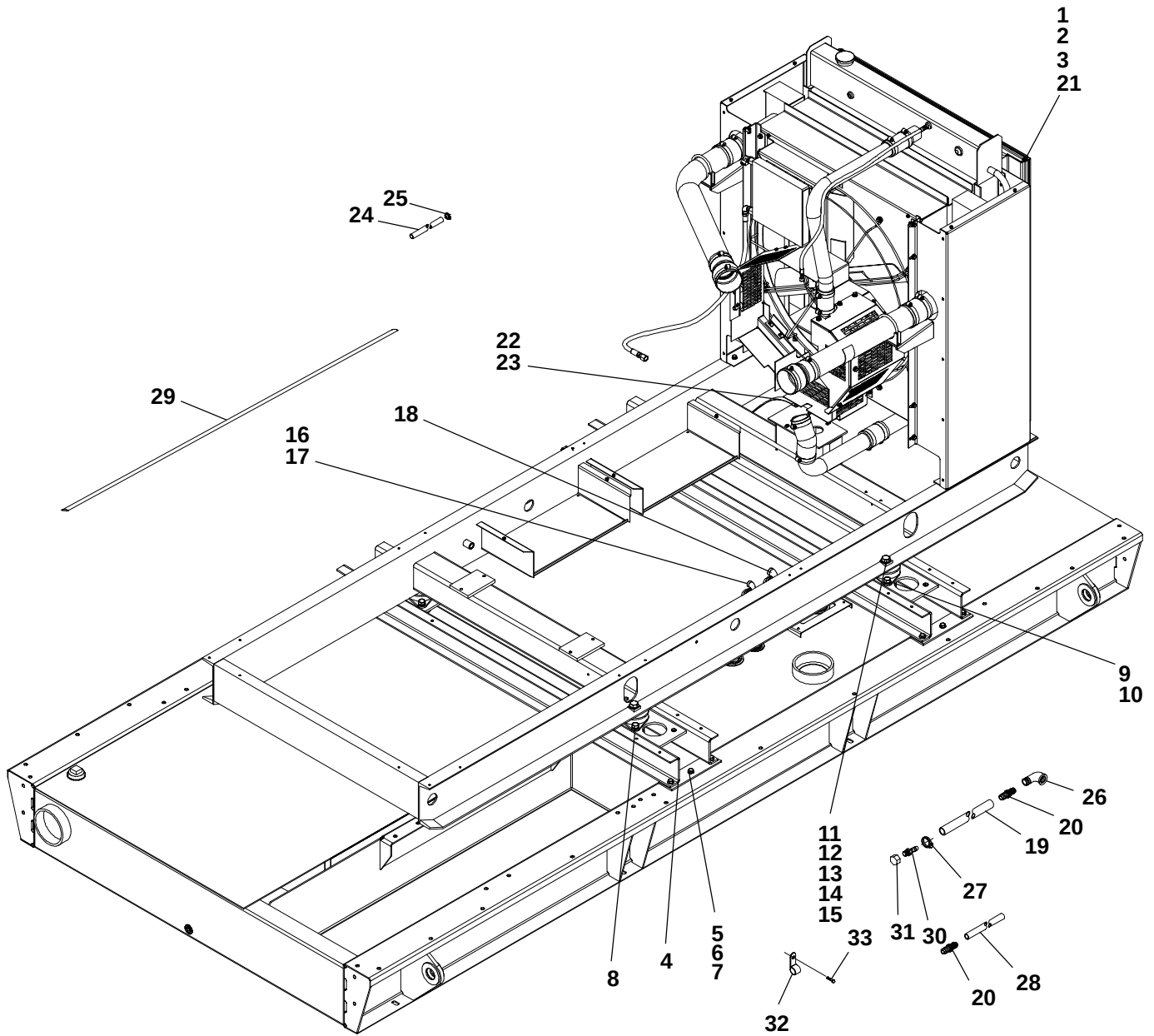
Mounting System Steel Enclosure



Mounting System Steel Enclosure

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7526-02	1	Duct, Air – Top	20	505-0019	1	Bushing, Reducer (1/2 x 3/8) – With Tank
2	405-7527-02	1	Duct, Air – Left	21	505-0120	1	Elbow, Street – 90° (3/8) – With Tank
3	405-7528-02	1	Duct, Air – Bottom (Not Shown)	22	505-0050	1	Elbow, Street – 90° (1/2) – With Tank
4	405-7529-02	1	Duct, Air – Right (Not Shown)	23	503-2433-01	1	Hose, Breather (3/4 ID)
5	405-5884-03	2	Seal, Radiator – Top, Botom	24	502-1383	2	Union, Hose (3/4)
6	405-5884-04	2	Seal, Radiator – Sides	25	337-0090-02	1	Strap, Electrical
7	821-6003-02	12	Screw, Hex Head (M8 x 1.25 x 20)	26	853-2012	2	Washer, Lock – W/ET (M12)
8	403-5111-02	3	Mount, Fuel Tank	27	503-2434-01	1	Hose, Drain (5/8)
9	800-2114	12	Screw, Cap – Hex Head (M12 x 1.75 x 40)	28	503-0131	1	Clamp, Hose
10	526-2140	24	Washer, Flat (M12)	29	502-1030	1	Connector, Hose – 90° (1/2 x 3/4)
11	860-2010	12	Nut, Hex (M12 x 1.75)	30	503-0189	2	Clamp, Hose
12	402-0816-01	6	Isolator, Vibration	31	503-2433-02	1	Hose, Breather (3/4 ID)
13	850-0070	8	Washer, Lock – Split (5/8)	32	405-7657-04	2	Gasket, Enclosure – With Tank
14	800-0132	8	Screw, Cap – Hex Head (5/8-11 x 1.5)	33	502-0827	1	Hose, Barb (3/4 x 1/2)
15	402-0820	4	Washer, Snubbing	34	502-0876	1	Cap, Pipe (1/2) – Brass
16	526-0027	4	Washer, Flat (3/4)	35	518-0704	1	Clamp, J
17	403-3362	4	Washer, Bevel	36	800-0026	1	Screw, Cap – Hex Head (5/16-18 x .75)
18	800-0167	4	Screw, Cap – Hex Head (3/4-10 x 6.0)				
19	862-0008-01	4	Nut, Hex (3/4-10)				

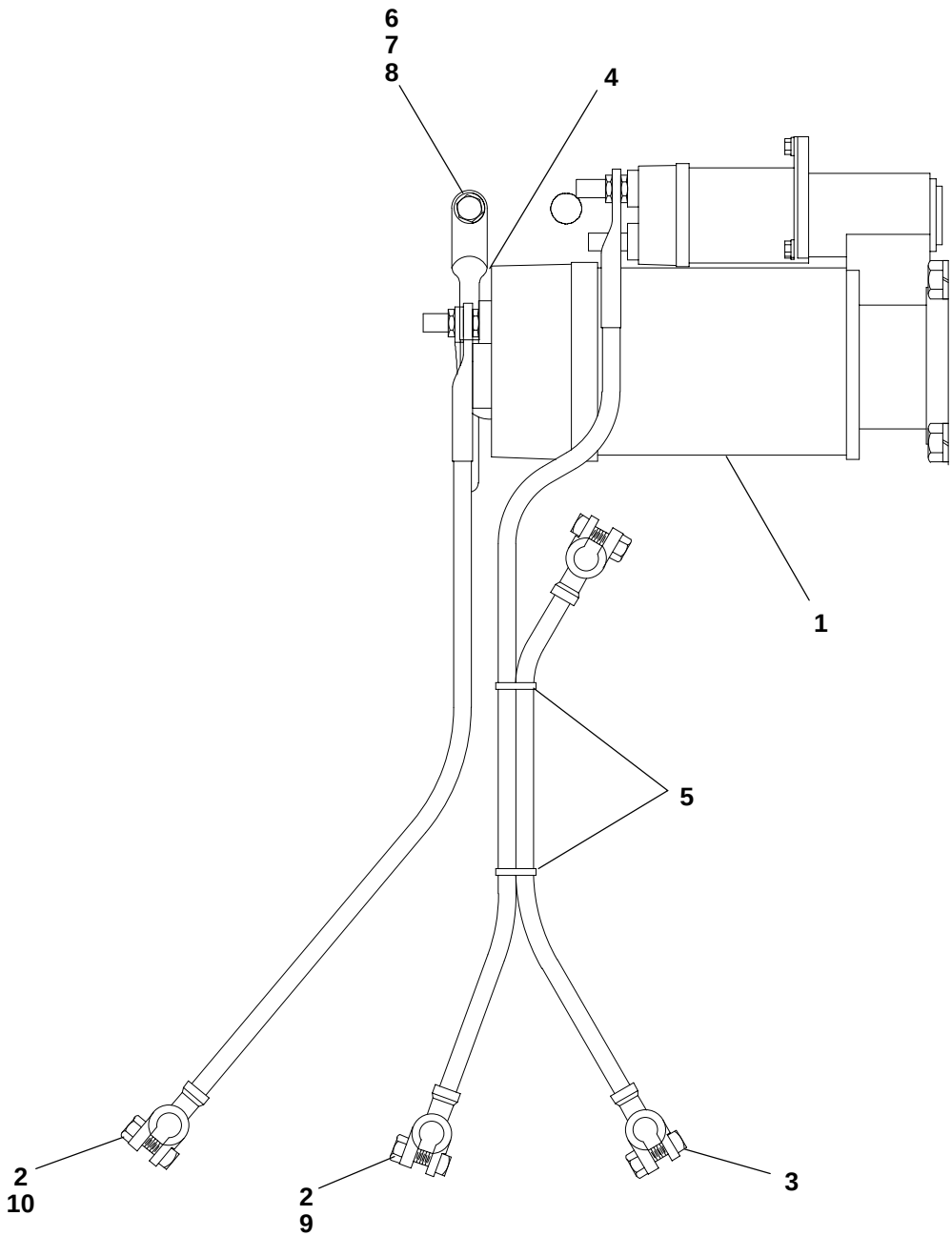
Mounting System Aluminum Enclosure



Mounting System Aluminum Enclosure

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Duct, Air	17	505-0120	1	Elbow, Street – 90° (3/8) – With Tank
	405-7872	1	Top	18	505-0050	1	Elbow, Street – 90° (1/2) – With Tank
	405-7873	1	Left Side	19	503-2433-01	1	Hose, Breather (3/4 ID)
	405-7874	1	Bottom	20	502-1383	2	Union, Hose (3/4)
	405-7875	1	Right Side	21	821-6003-02	12	Screw, Hex Head (M8 x 1.25 x 20)
2	405-5884-03	2	Seal, Radiator – Top and Bottom	22	337-0090-02	1	Strap, Electrical
3	405-5884-04	2	Seal, Radiator – Sides	23	853-2012	2	Washer, Lock – W/ET (M12)
4	403-5111-02	2	Mount, Fuel Tank	24	503-2434-01	1	Hose, Drain (5/8)
5	800-2114	12	Screw, Cap – Hex Head (M12 x 1.75 x 40)	25	503-0131	1	Clamp, Hose
6	526-2140	24	Washer, Flat (M12)	26	502-1030	1	Connector, Hose – 90° (1/2 x 3/4 Hose)
7	860-2010	12	Nut, Hex (M12 x 1.75)	27	503-0189	2	Clamp, Hose
8	402-0816-01	4	Isolator, Vibration	28	503-2433-02	1	Hose, Breather (3/4 ID)
9	850-0070	8	Washer, Lock – Split (5/8)	29	405-7657-04	2	Gasket, Enclosure – With Tank
10	800-0132	8	Screw, Cap – Hex Head (5/8-11 x 1.5)	30	502-0827	1	Hose, Barb (3/4 x 1/2)
11	402-0820	4	Washer, Snubbing	31	502-0876	1	Cap, Pipe (1/2)
12	526-0027	4	Washer, Flat (3/4)	32	518-0704	1	Clamp, J
13	403-3362	4	Washer, Bevel	33	800-0026	1	Screw, Cap – Hex Head (5/16-18 x .75)
14	800-0167	4	Screw, Cap – Hex Head (3/4-10 x 6.0)				
15	862-0008-01	4	Nut, Hex – Heavy (3/4-10)				
16	505-0019	1	Bushing, Reducer (1/2 x 3/8) – With Tank				

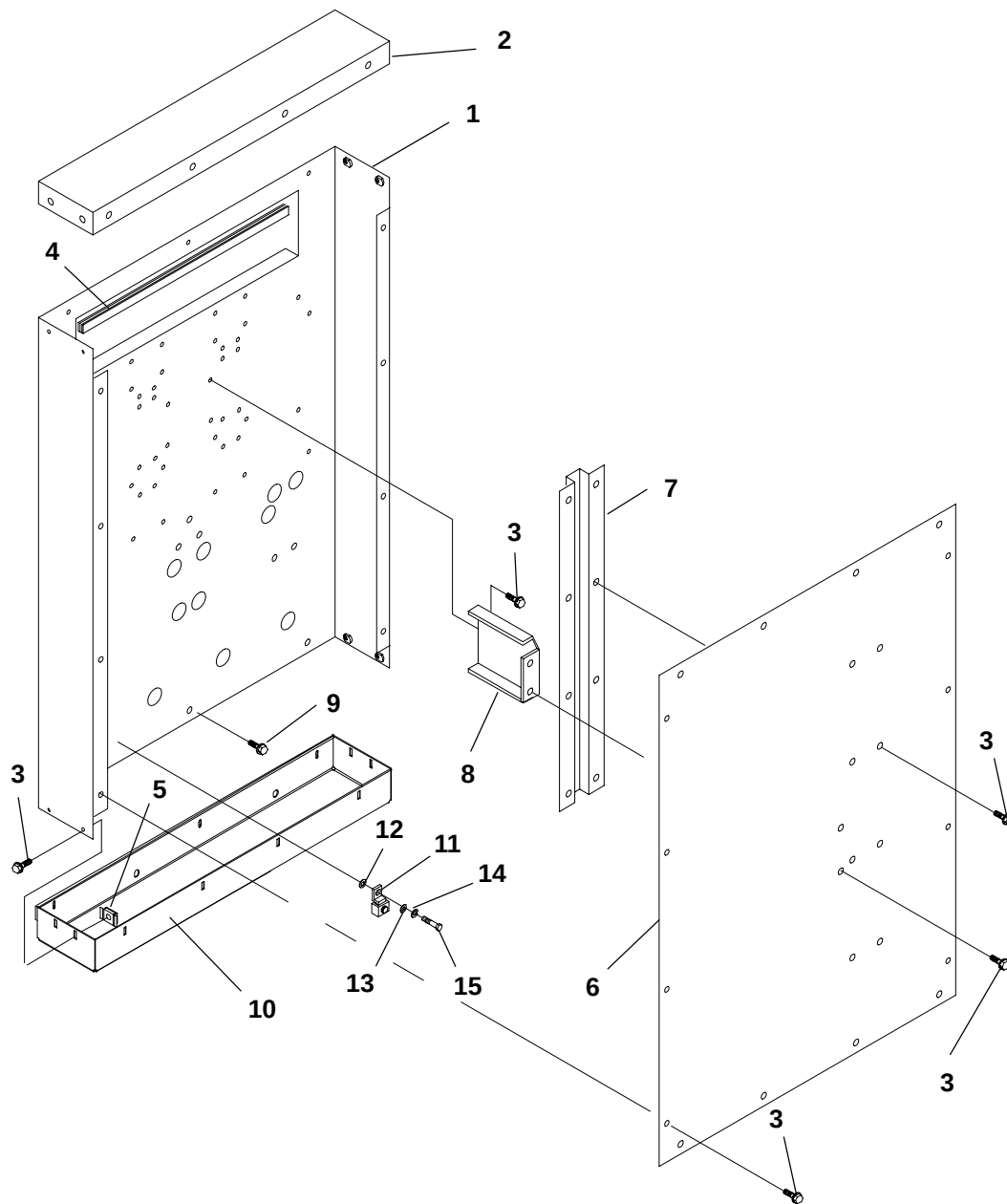
Electric Starter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-2341	1	Starter (24VDC)
2	416-1092	2	Cable, Battery
3	416-1097	1	Cable, Battery – Jumper
4	416-0680	1	Cable, Battery – Starter to Ground
5	332-0941	2	Tie, Cable

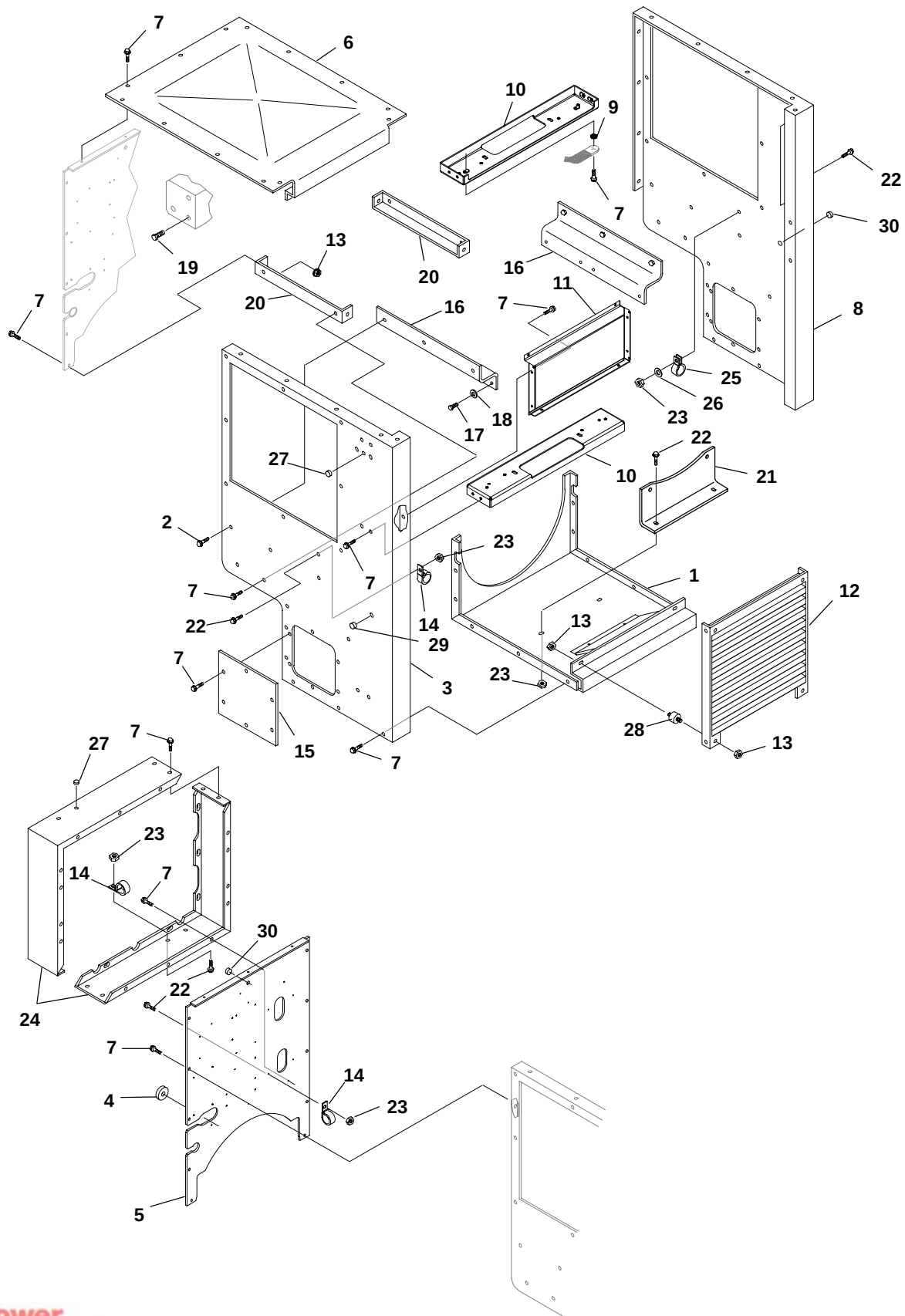
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	856-0010	1	Washer, Lock – W/EIT (3/8")
7	850-2010	1	Washer, Lock – Spring (M10)
8	800-2085	1	Screw, Cap – Hex Head (M10 x 20mm)
9	416-1019	1	Battery, Boot – Red
10	416-1084	1	Starter, Boot – Red

Entrance Box



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3169	1	Box, Entrance	9	821-2035	2	Screw, Self-Locking - Hex Washer Head (M6 x 25mm)
2	319-1915	1	Panel (Top)	10	319-3183	1	Panel (Bottom)
3	821-6002-03	44	Screw, Self-Locking - Hex Washer Head (M6 x 16mm)	11	332-2001	1	Lug, Solderless
4	508-1092	-	Edging - Bulk (Order By The Foot - 2 Feet Required)	12	856-0010	1	Washer, Lock - EIT (3/8")
5	870-0504	16	Nut, Self-Retaining (M6)	13	526-2120	1	Washer, Flat (M10) 20mm)
6	319-1916	1	Cover	14	850-2010	1	Washer, Lock - Spring (M10)
7	319-3284	1	Brace, Cover	15	800-2088	1	Screw, Cap - Hex Head (M10 x 1.5 x 35mm)
8	319-3251	1	Brace, Cover				

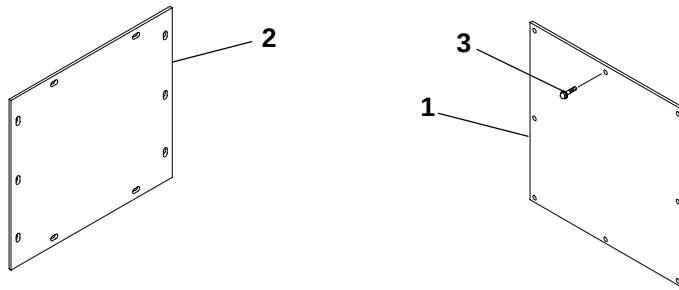
Control Housing



Control Housing

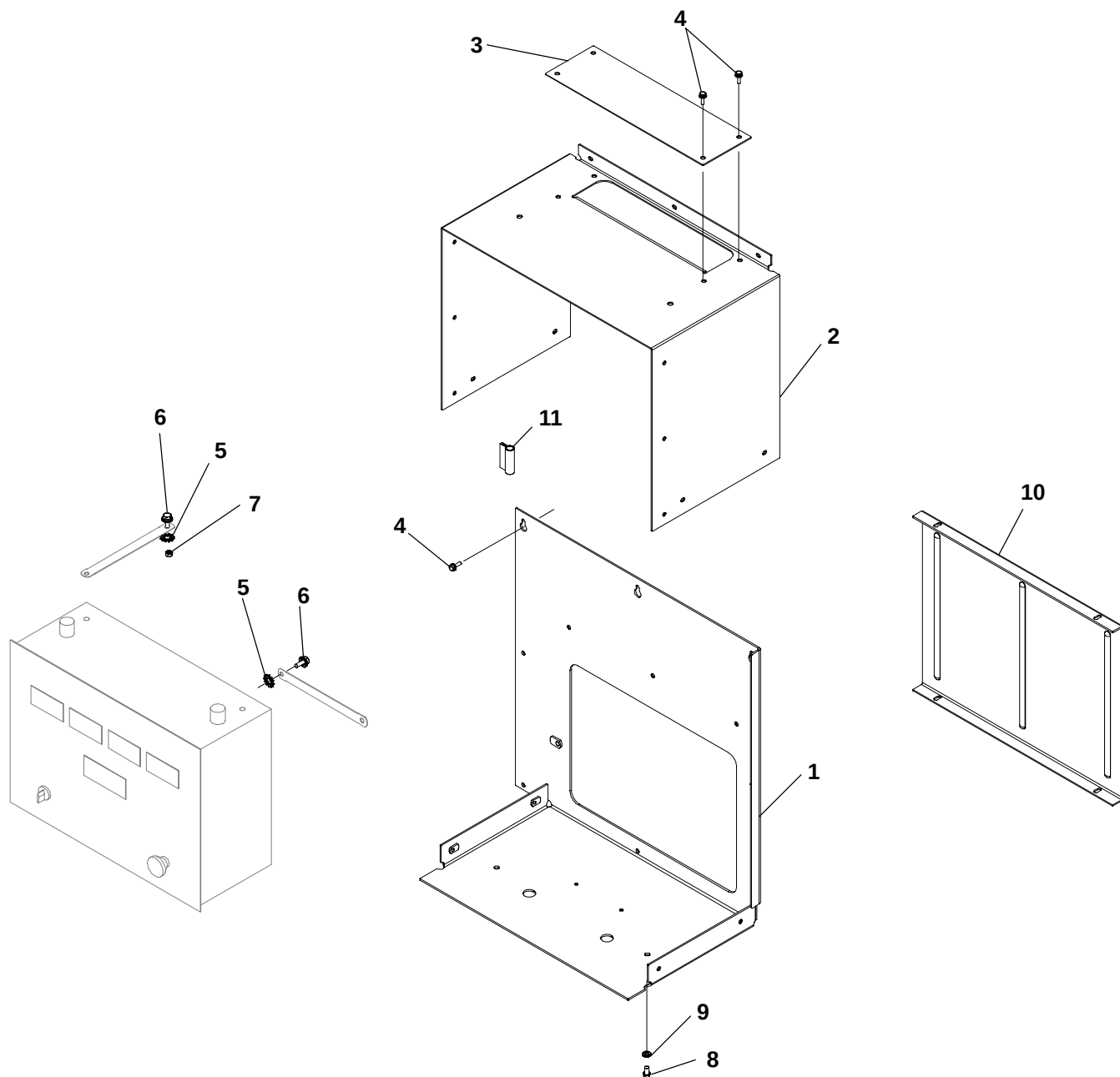
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3270-01	1	Panel – Bottom	16	319-3255	2	Bracket, Mounting
2	821-6004-01	6	Screw, Self-Locking – Hex Washer Head (M10 x 20mm)	17	800-2111	6	Screw, Cap – Hex Head (M12 x 25mm)
3	319-3287-01		Panel – Right Side	18	850-2012	6	Washer, Lock – Spring (M12)
4	508-1090	2	Grommet, Rubber (Fits 3-1/4" Hole)	19	800-2114	1	Screw, Cap – Hex Head (M12 x 40mm)
5	319-4453-02		Panel – Front	20	319-3257	2	Panel, Support
6	301-9512	1	Cover, Top	21	319-1345	1	Bracket, Panel
7	821-6002-03	69	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	22	821-6003-02	7	Screw, Self-Locking – Hex Washer Head (M8 x 1.25 x 20)
8	319-3287-02	1	Panel – Left Side	23	870-2055	7	Nut, Locking – Hex Head (M8 x 1.25)
9	856-0006	2	Washer, Lock – W/EIT (1/4")	24	319-3278	2	Wrapper, Control Box
10	405-7249-02	2	Rail, Enclosure – Support	25	518-0548-24	1	Clamp, Retainer
11	405-7254-02	1	Rail, Enclosure – Front	26	526-2100	1	Washer, Flat (M8)
12	319-2768	1	Grille	27	517-0131	3	Plug, Hole (Fits 3/8" Hole)
13	870-2054	8	Nut, Locking – Hex Flange Head (M6 x 1.0)	28	402-0729	4	Isolator, Vibration
14	518-0548-02	3	Clamp, Hose	29	517-0136	2	Plug, Hole (Fits 3/4" Hole)
15	301-9629	2	Cover, Side – Lower	30	517-0135	1	Plug, Hole (Fits 5/8" Hole)

Control Housing Cover



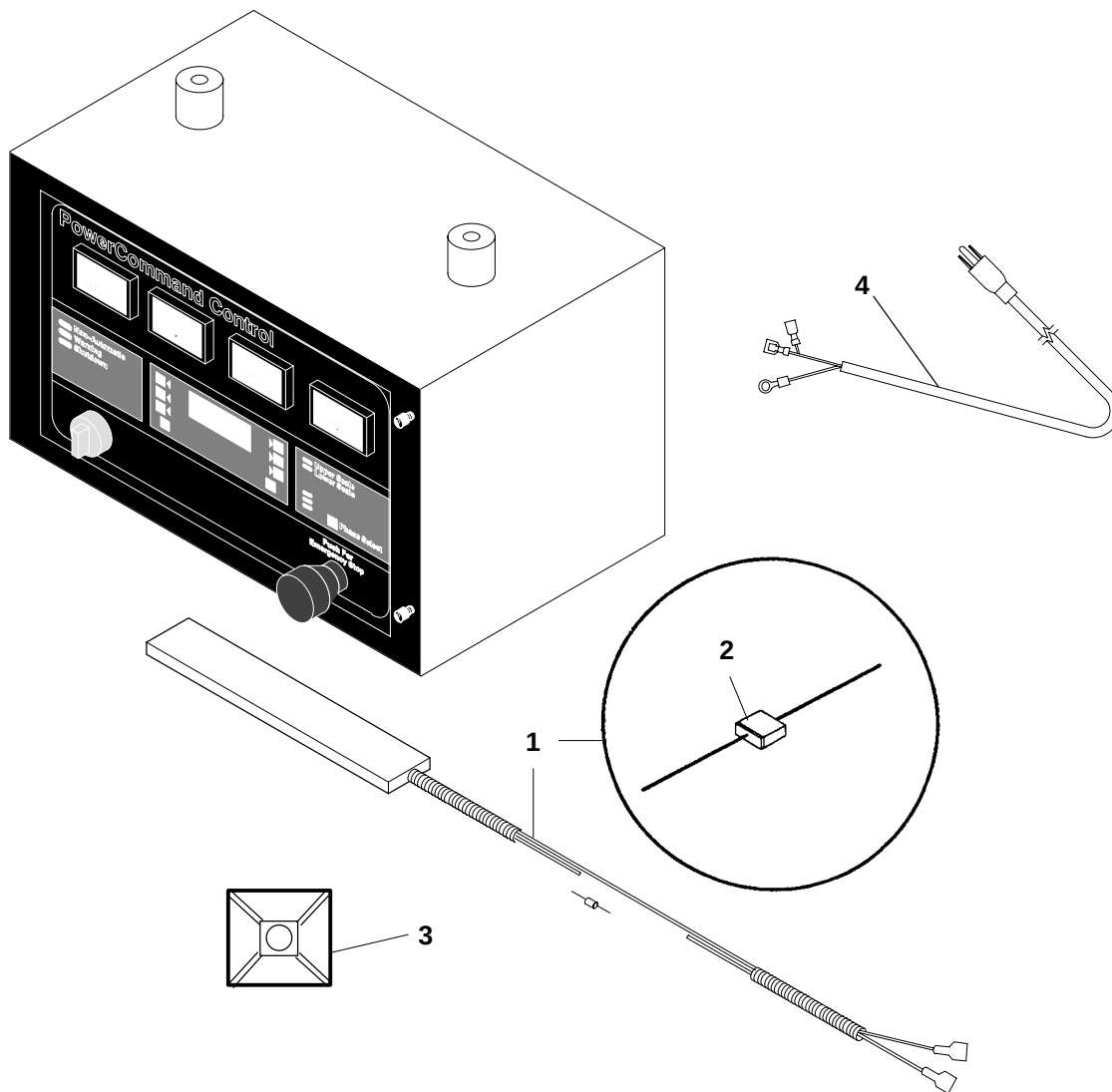
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cover, Control Housing – Side – Upper (23" x 23")	3			Screw, Hex Head (M6 x 1 x 20)
	301-9511	1	With One Circuit Breaker or Entrance Box		821-6002-03	10	With Circuit Breaker and Entrance Box or With Two Circuit Breakers or Two Entrance Boxes
	301-9511	2	No Circuit Breaker or Entrance Box		821-6002-03	18	With One Circuit Breaker or Entrance Box
2	319-2220	1	Cover, Control Box (25-1/4" x 19-1/8")		821-6002-03	26	No Circuit Breaker or Entrance Box

Control Assembly



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5025-02	1	Cover, Control	7	862-0001	2	Nut, Hex (1/4-20)
2	319-5026-02	1	Cover, Control	8	850-0045	4	Washer, Lock - Split (5/16)
3	319-5027-02	1	Cover, Control	9	821-0014	4	Screw, Locking - Hex Head (5/16-18 x 1/2)
4	821-6002-03	23	Screw, Hex Head (M6 x 1 x 16)	10	405-7666-02	1	Cover, Access
5	856-0010	2	Washer, Lock - W/EIT (3/8)	11	508-1188	-	Edging - Bulk (Order by the Foot - 5 Feet Required)
6	821-6003-01	3	Screw, Hex Head (M8 x 1.25 x 16)				

Control Heater

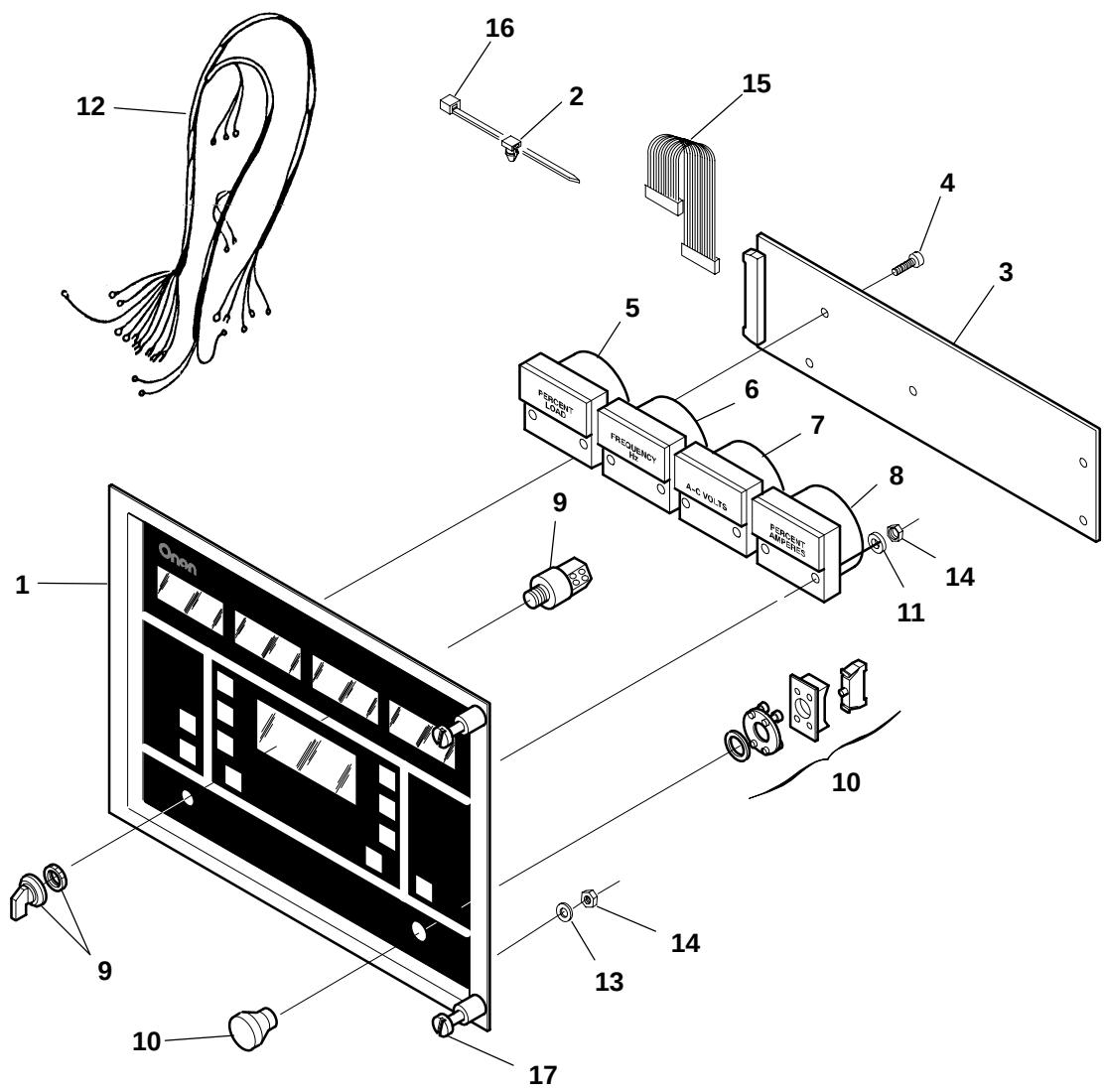


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater Assembly, Control – 100 Watt (Includes Rectifier)
	300-4515-01	1	120 Volt
	300-4515-02	1	240 Volt

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	357-0114	1	Rectifier (3 Amp)
3	332-2420	1	Mount, Cable
4	335-0173-03	1	Cable Assembly (120V)

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Control Door

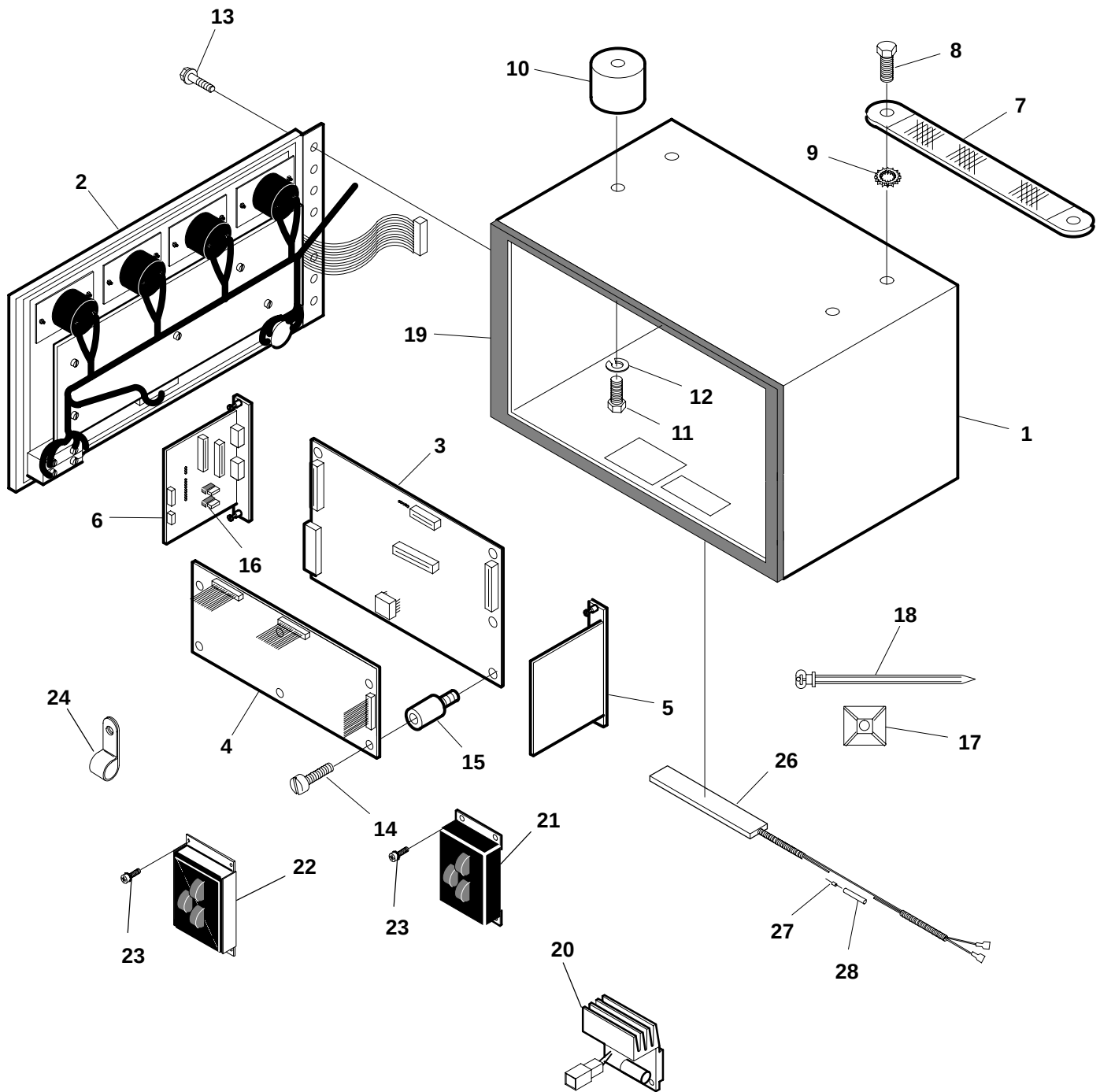


Control Door

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Door Assembly (Includes Membrane, Display Window and Parts Marked *)	9	308-0998	1	Switch, Selector – Run/Off/Auto (Knob Operated Switch) (S12)
	300-4608-01	1	English Single Set		308-1045	1	Switch, Selector (Key Operated) (Includes 2 Keys) (Converts 308-0998 Knob Operated Selector Switch To A Key Operated Selector Switch) (Not Illustrated)
	300-4608-02	1	Paralleling Sets				
	300-4610-01	1	Spanish Single Set				
	300-4610-02	1	Paralleling Sets				
2	332-3262	4	Mount, Tie – Cable				
3			Board, Printed Circuit – Display (A35)		308-1046	2	Key, Replacement (Not Illustrated)
	300-4481	1	Single Set	10	308-0999	1	Switch, Pushbutton – Emergency Stop (S13)
	300-4286	1	Paralleling Sets				
4	815-0550	5	Screw, Machine – Pan Head – Cross Recessed W/ET (#6-32 x 3/8")	11	526-0257	8	Washer, Flat (#4)
				12	338-2937	1	Harness, Wiring – Control Door (Includes Selector Switch and Emergency Stop Switch)
5	302-2012	1	Wattmeter (0-125 %) (M24)				
6	302-2010	1	Meter, Frequency (45-65 Hz) (M23)	13	526-0417	2	* Washer, Flat (#4)
				14	870-1220	10	* Nut, Hex – W/ET (#4-40)
7			Voltmeter, AC (M21)	15	338-2934	1	Cable, Ribbon (10-1/2") (A32 to A35)
	302-2009-01	1	0-300/0-600 Volt				
	302-2009-02	1	0-750 Volt	16	332-1445	4	Tie, Cable
	302-2009-03	1	0-5250 Volt	17	406-0761-03	2	* Fastener, Door
	302-2009-04	1	0-15 kV				
8	302-2011	1	Ammeter (0-125 %) (M22)				

* – Parts Included in Door Assembly

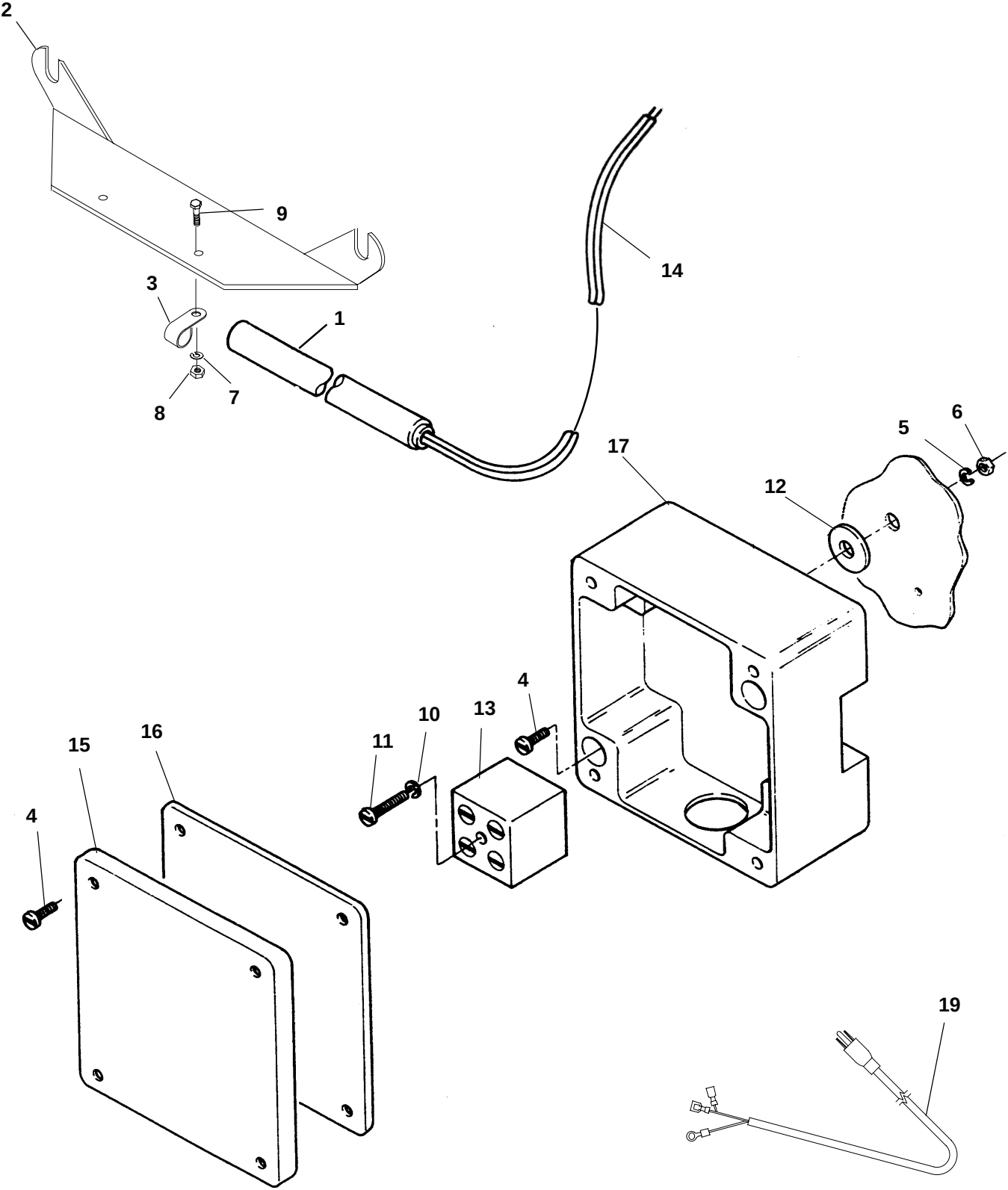
Control Box



Control Box

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1687	1	Box Assembly – Control (Includes Gasket)	15	332-3235	6	Standoff, Board – PC (#6-32 IT x #6-32 ET x 3/4")
2			Door Assembly – Control (See Separate Page For Components)	16	321-0307-03	2	Fuse, 5 Amp, 32V (F1, F3)
3	300-4079	1	Board, Printed Circuit – Digital (A32)	17	332-2420	1	Mount, Tie – Cable (Quantity Used As Required) (Door Harness)
4			Board, Printed Circuit – Analog (A33)	18	332-0942	1	Tie, Cable (Quantity Used As Required) (Door Harness)
	300-4080-01	1	Single Set	19	895-0359	1	Gasket, Door
	300-4080-02	1	Parallel Sets	20	300-4306	1	Board, Printed Circuit – Voltage Regulator
5			Board, Printed Circuit – Customer Interface (A34)	21			Board, Printed Circuit – PC/CT 120 Volt
	300-4462	1	Single Set		300-4308-01	1	346 Volt
	300-4462-01	1	Parallel Sets	22	300-4308-03	1	Bus, Power Transformer (A39)
6	300-4083	1	Board, Printed Circuit – Engine		300-4309-01	1	0-300V
7	337-0049	2	Strap, Bond		300-4309-02	1	301-480V
8	800-0003	2	Screw, Cap – Hex Head (1/4-20 x 1/2")		300-4309-03	1	600V
9	856-0006	2	Washer, Lock – EIT (1/4")	23	821-6001-03	16	Screw, Hex Head (M5 x 0.8 x 16)
10	402-0527	4	Isolator, Vibration	24	332-2634	2	Clamp, J
11	800-0024	4	Screw, Cap – Hex Head (5/16-18 x 1/2")	25	425-1799	1	Clamp, Cable (Not Illustrated)
12	850-0045	4	Washer, Lock (5/16")	26			Heater, Control (Includes Rectifier and Splices)
13	821-0004	4	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16")		300-4515-01	1	120 Volt
					300-4515-02	1	240 Volt
14	815-0549	6	Screw, Machine – Pan Head – Cross Recessed W/ET (#6-32 x 1/4")	27	357-0114	1	Rectifier, Power (3 Amp)
				28	332-1789	2	Splice, Window (18 GA)

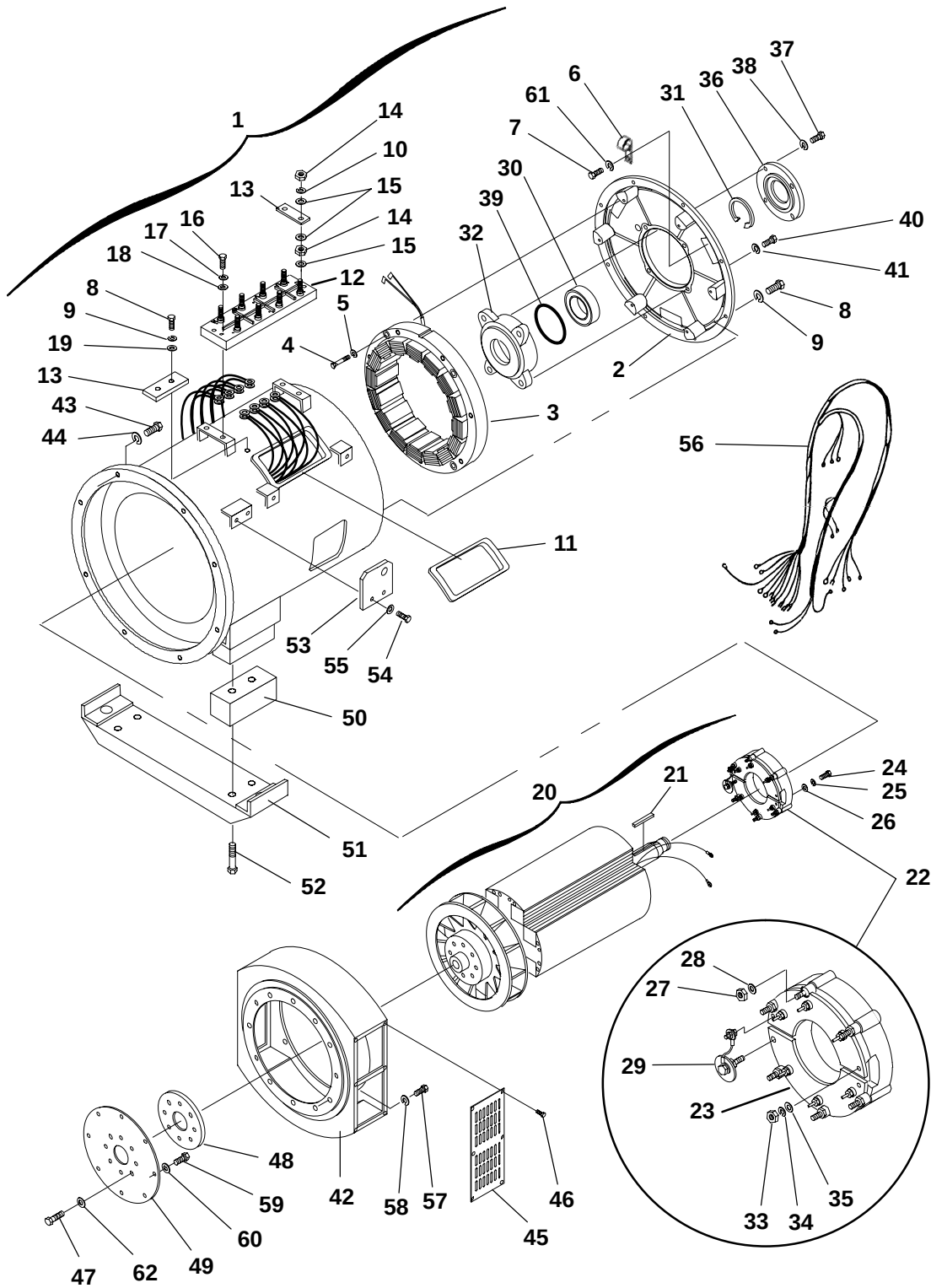
Generator Heater



Generator Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0438-03	2	Cartridge, Heater – 120 Volt	12	508-0228	1	Grommet
2	232-3850	1	Bracket, Mounting – Heater	13	332-3023	1	Block, Terminal
3	332-3024-14	4	Clamp, Loop	14	898-1254-25	1	Sleeving – Heater Leads (59")
4	822-3075	6	Screw, Machine – Slotted Pan Head (M4 x 16mm)	15	330-0141-03	1	Cover, Box
5	850-2004	2	Washer, Lock – Spring (M4)	16	330-0141-04	1	Gasket, Cover
6	860-2005	2	Nut, Hex (M4)	17	330-0142	1	Box, Terminal
7	850-2005	2	Washer, Lock – Spring (M5)	18	331-0027	1	Connector, Romex (1/2") (Not Illustrated)
8	860-2006	2	Nut, Hex (M5)	19	335-0173-04	1	Cable Assembly
9	800-2008	2	Screw, Cap – Hex Head (M5 x 16mm)	20	331-0027	1	Connector, Romex (Not Illustrated)
10	850-2003	1	Washer, Lock – Spring (M3)				
11	822-3047	1	Screw, Machine – Pan Head (M3 x 20mm)				

Generator



Generator

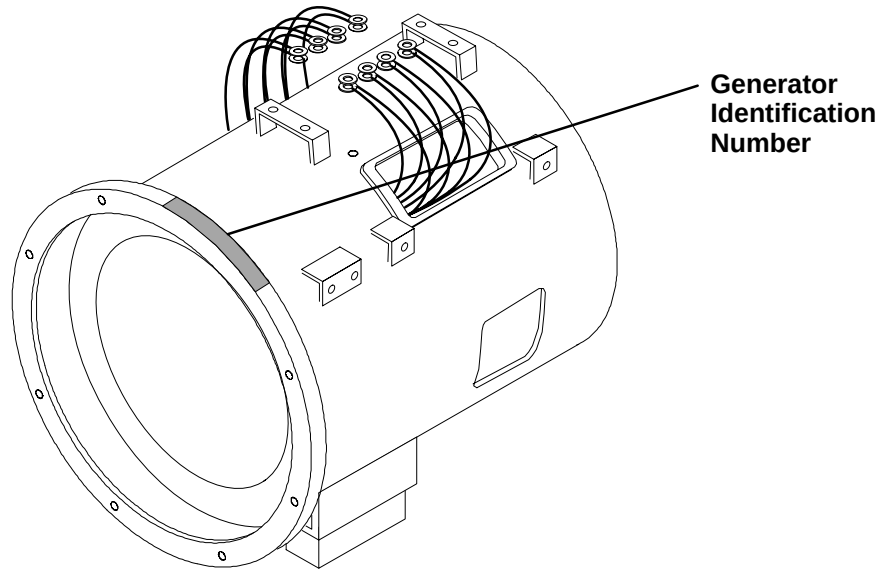
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	-	1	Stator Assembly, Generator – Complete (See Separate Page For Part Numbers) (Includes Parts Marked *)	34	850-2005	2	#Washer, Lock – Spring (M5)
2	211-0431	1	*Bell, End	35	526-2060	2	#Washer, Flat (M5)
3	220-4248	1	*Stator, Exciter	36	232-3981-01	1	#Cover, Bearing Housing
4	800-2066	6	*Screw, Cap – Hex Head (M8 x 65mm)	37	800-2087	4	#Screw, Cap – Hex Head (M10 x 30mm)
5	850-2008	6	*Washer, Lock – Spring (M8)	38	850-2010	4	#Washer, Lock – Spring (M10)
6	425-1799	1	*Clamp, Cable	39	509-0266-03	1	#O-Ring
7	800-2004	1	*Screw, Cap – Hex Head (M5 x 12mm)	40	800-2091	4	Screw, Cap – Hex Head (M10 x 50mm)
8	800-3017-39	9	*Screw, Cap – Hex Head	41	850-2010	4	Washer, Lock – Spring (M10)
9	850-0114-55	9	*Washer, Lock – Spring (M10)	42	231-0322	1	Adapter, Generator Screw
10	850-2012	8	*Washer, Lock – Spring (M12)	43	800-3017-56	6	Cap – Hex Head (M12 x 40mm)
11	508-0306	2	*Grommet		725-1103	2	Socket Head (M12 x 40mm) (Bottom Holes)
12	232-3482	1	*Panel, Terminal	44	850-0114-56	8	Washer, Lock – Spring (M12)
13	332-3009	4	*Link, Terminal	45	234-0889	2	Guard, Fan
14	860-2010	16	*Nut, Hex (M12)	46	821-6001-02	12	Screw, Self-Locking – Hex Washer Head (M5 x 12mm)
15	526-2140	24	*Washer, Flat (M12)	47	720-1146	8	Screw, Cap – Hex Head (M20 x 60mm)
16	800-2061	4	*Screw, Cap – Hex Head (M8 x 40mm)	48	232-3520-01	1	Spacer, Drive Disc (3/8" Thk)
17	850-2008	4	*Washer, Lock – Spring (M8)	49	232-3522	4	Disc, Drive
18	526-2100	4	*Washer, Flat (M8)	50	232-3524	2	Spacer, Generator Foot
19	526-2120	1	*Washer, Flat (M10)	51	232-3966	1	Foot, Generator
20	-	1	Rotor Assembly, Generator – Complete (See Separate Page For Part Numbers) (Includes Parts Marked #)	52	800-2244	4	Screw, Cap – Hex Head (M24 x 80mm)
21	515-0300-01	1	#Key	53	232-3523	2	Bracket, Generator Lifting
22	201-3460	1	#Rotor Assembly, Exciter (Includes Parts Marked +)	54	800-3017-55	4	Screw, Cap – Hex Head (M12 x 35mm)
23	357-0093	1	## Rectifier Assembly (Includes Diodes and Varistor)	55	850-0114-56	4	Washer, Lock – Spring (M12)
24	800-2042	4	## Screw, Cap – Hex Head (M6 x 60mm)	56	338-3348	1	Harness, Wiring
25	850-2006	4	## Washer, Lock – Spring (M6)	57	800-0074	12	Screw, Cap – Hex Head (7/16-14 x 1-3/4")
26	526-2080	4	## Washer, Flat (M6)	58	850-0055	12	Washer, Lock – Spring (7/16")
27	870-2064-02	6	## Nut, Hex (M5)	59	805-0032	8	Bolt, Place (1/2-13 x 1-1/4")
28	526-2060	6	## Washer, Flat (M5)	60	526-0035	8	Washer, Flat (1/2")
29	249-0797	1	Kit, Diode (Includes Varistor And All Diodes)	61	850-2005	1	*Washer, Lock – Spring (M5)
30	510-0168	1	#Bearing, Ball	62	526-0450	2	Washer, Flat
31	518-0018	1	#Ring, Retaining				
32	232-3518-01	1	#Housing, Bearing				
33	860-2006	2	#Nut, Hex (M5)				

* – Parts Included In Generator Stator Assemblies

– Parts Included In Generator Rotor Assemblies

+ – Parts Included In Exciter Rotor Assemblies

Generator Rotor and Stator Part Numbers

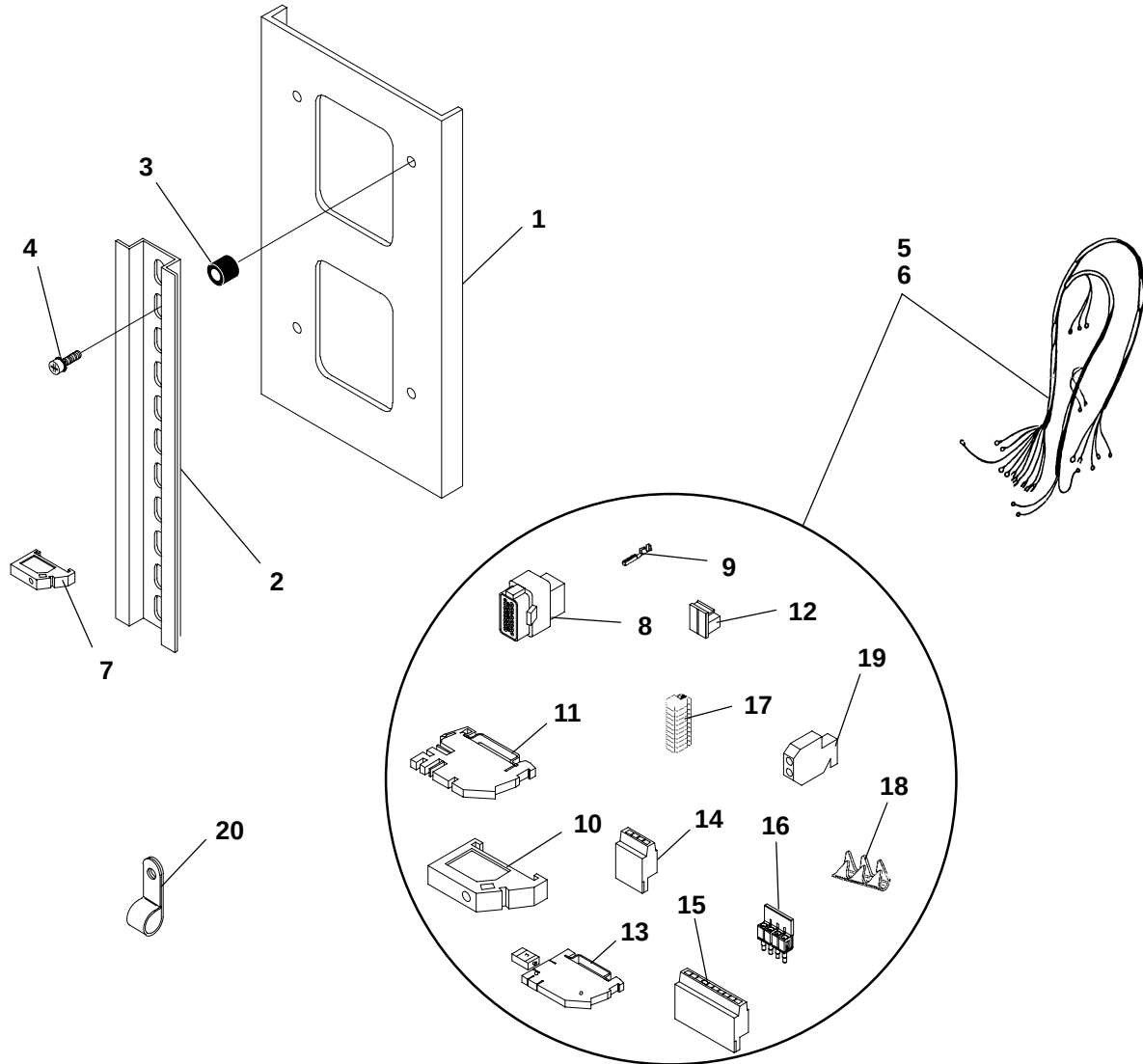


Service replacement part numbers for the main generator stator and rotor can be determined by locating the Cummins Power Generation 249-XXXX-XX generator identification number. This number is stamped on the engine end of the main stator adapter ring in the area shown in the above illustration. Find the corresponding number in the chart below for the stator and rotor replacement part numbers and also to determine the generator model number. For COMPLETE generator replacement use the 249-XXXX-XX Cummins Power Generation identification number.

Component parts that are included with the main stator and rotor are listed on the "Generator" pages of this catalog.

Cummins Power Generation Identification Number	Generator Model	Stator Assembly Part Number	Rotor Assembly Part Number
249-5080-02	HC4	220-4468-01	201-3459-01
249-5080-03	HC4	220-4468-02	201-3459-02
249-5080-04	HC4	220-4468-03	201-3459-03
249-5080-05	HC4	220-4468-04	201-3459-04
249-5081-02	HC4	220-4468-07	201-3459-01
249-5081-03	HC4	220-4468-08	201-3459-02
249-5081-04	HC4	220-4468-09	201-3459-03
249-5081-05	HC4	220-4468-10	201-3459-04

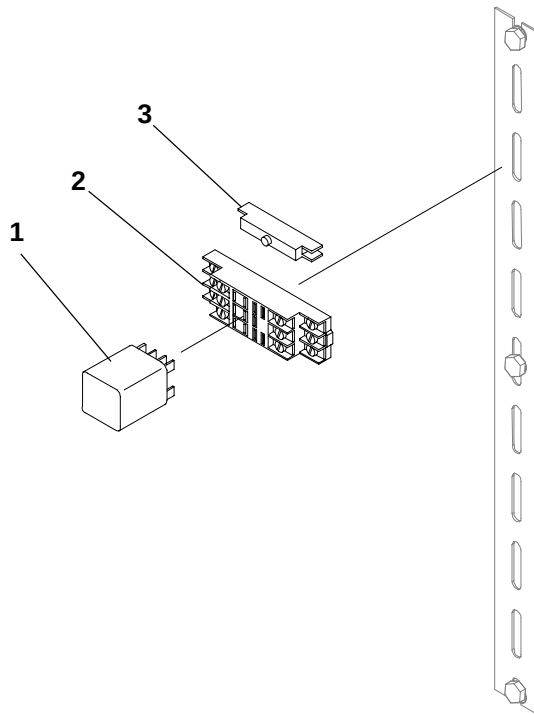
Rail Mount



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2247	1	Mount, Rail – Control Box	10	332-2878	8	* Bracket, End – Terminal
2	332-2879-05	2	Rail, Terminal	11	332-3444	22	* Block, Terminal
3	402-0510	4	Isolator, Vibration	12	332-3446	11	* Cover, Terminal
4	815-0839	4	Screw, Pan Head – Cross Recessed – W/ET (10-32 x 3/8")	13	332-3448-01	4	* Bracket, Terminal Block With Pin
5	338-4019	1	Harness, Wiring – Interconnect – Paralleling (Includes Parts Marked *)		332-3448-02	4	Without Pin
6	338-4023	1	Harness, Wiring – Interconnect – Non-Paralleling (Includes Parts Marked *)	14	332-3447-10	3	* Plug, Terminal Block (4 Place)
7	332-2878	4	Bracket, End – Terminal	15	332-3447-13	1	* Plug, Terminal Block (10 Place)
8	323-1605-01	1	* Connector, Plug (23 Pin) Black (P1)	16	332-3762-02	3	* Jumper, Terminal (4 Place)
	323-1605-03	2	Gray (P2, P8)	17	332-3125-02	4	* Block, Terminal (10 Place)
	323-1605-04	1	Blue (P3)	18	332-3491-01 A/R		* Terminal, Wire Pin
9	323-1614-01 A/R		* Socket (P1, P2, P3, P8)	19	332-3126-01	1	* Plate, End
				20	518-0548-24	1	Clamp, Hose

* – Parts Included in 338-4019 and 338-4023 Wiring Harness

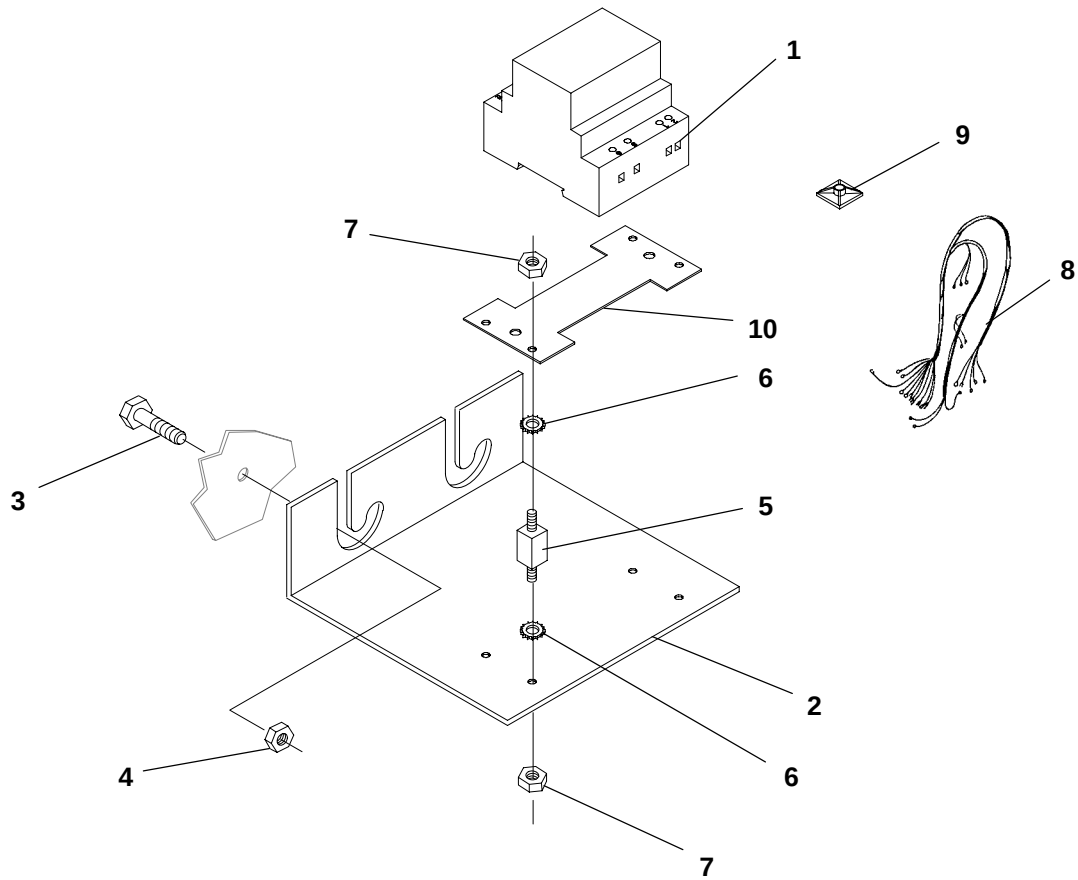
Customer Relay



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Relay
	307-1056-01	1	Alarm Relay
	307-1056-01	3	Run Relays

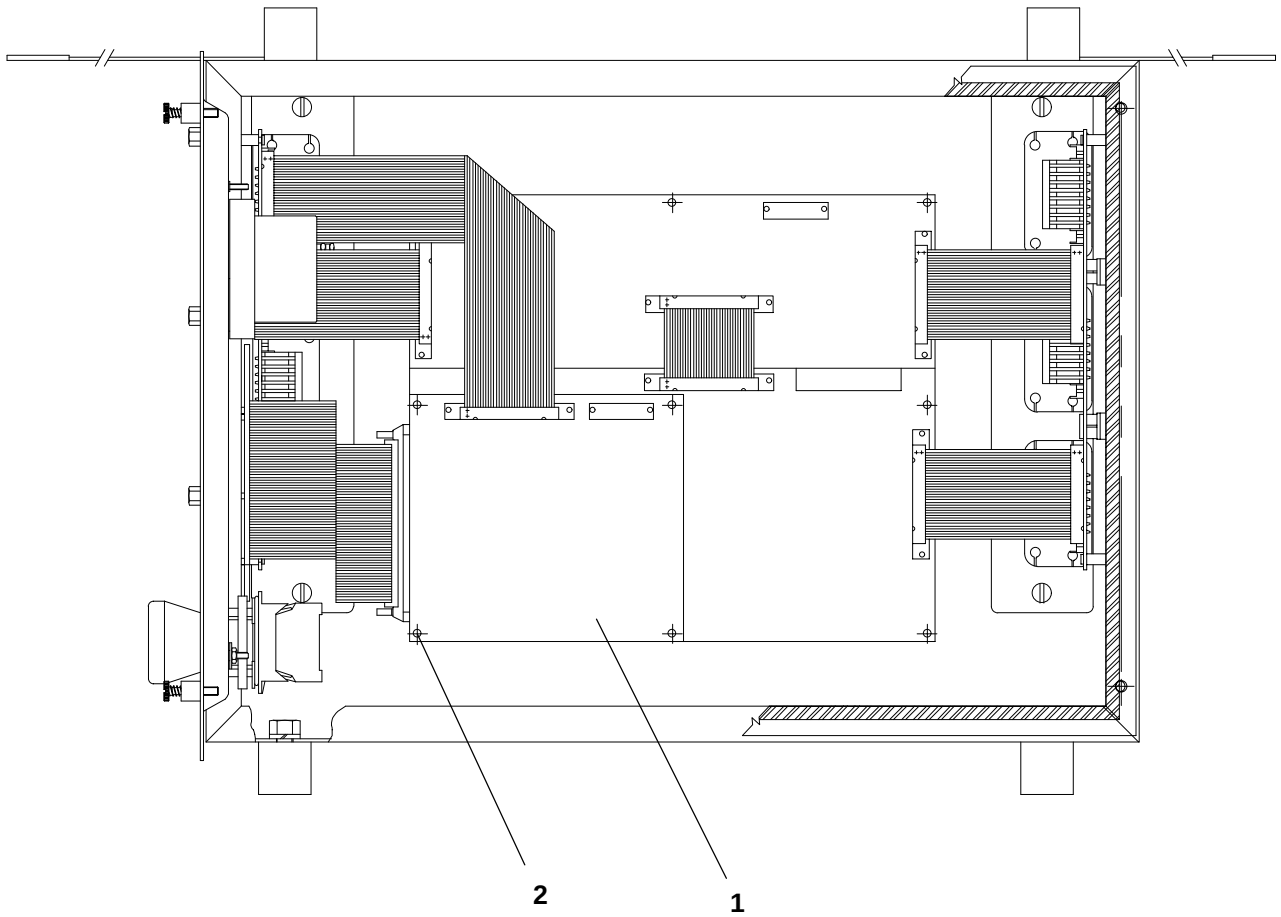
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2			Socket, Relay
	323-1410-01	1	Alarm Relay
	323-1410-01	3	Run Relays
3	323-1411-01	1	Clip, Socket Mounting

Ground Fault Relay



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-3003-01	1	Relay, Ground Fault	6	853-0005	8	Washer, Lock - W/ET (#8)
2	301-6987	1	Bracket, Watts Transducer	7	870-0221	8	Nut, Hex - W/ET (#8-32)
3	821-0017	2	Screw, Locking (5/16-18 x 1/2)	8	338-3232	1	Harness, Relay
4	870-0257	2	Nut, Self-Locking (5/16-18)	9	332-2420	2	Mount, Cable Tie
5	402-0354	4	Mount, Shock	10	319-5038-02	1	Plate, Mounting - Relay

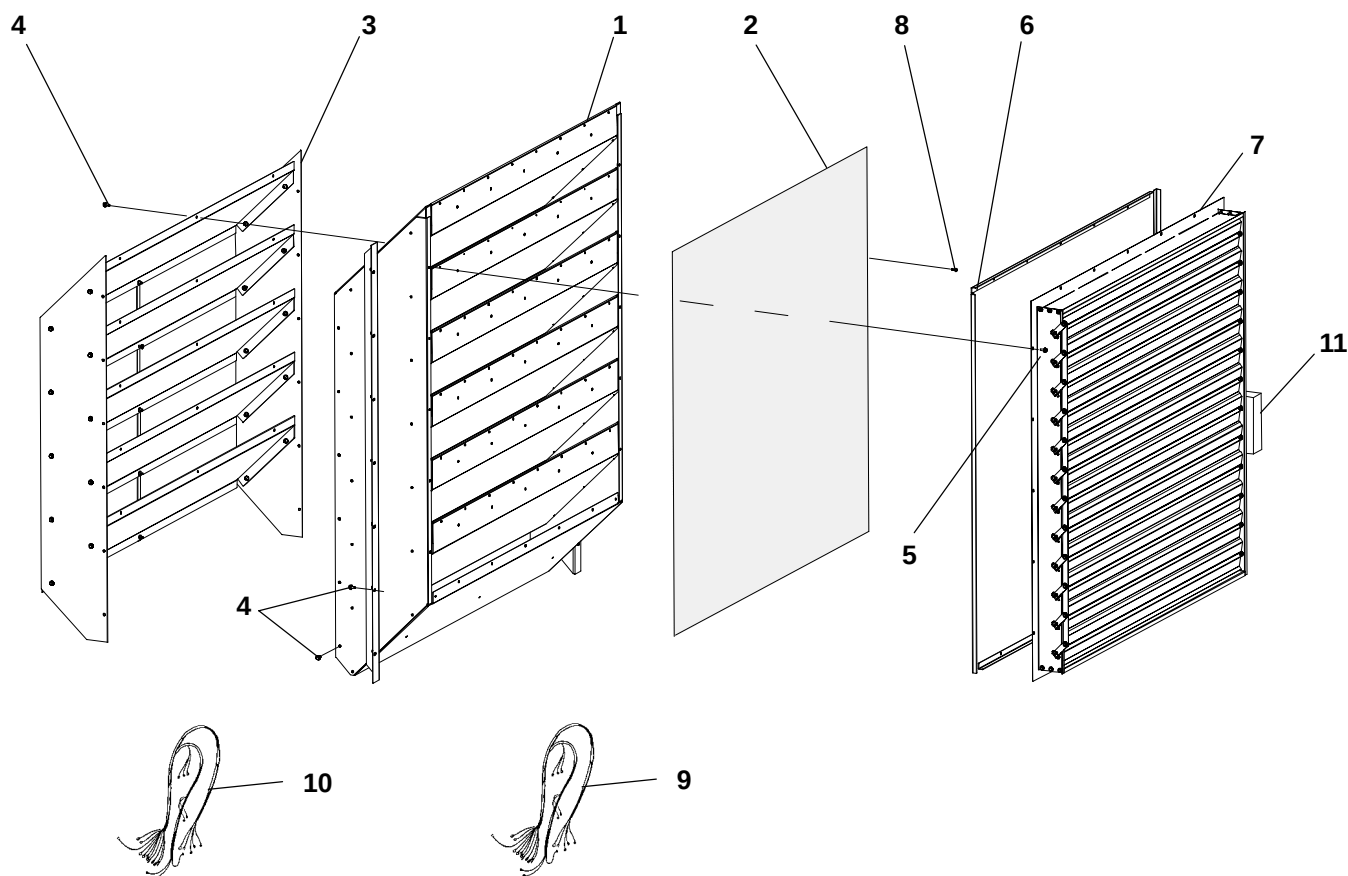
Genset Communications Module FT-10



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	327-1301	1	Board, Printed Circuit – Genset Communications Module

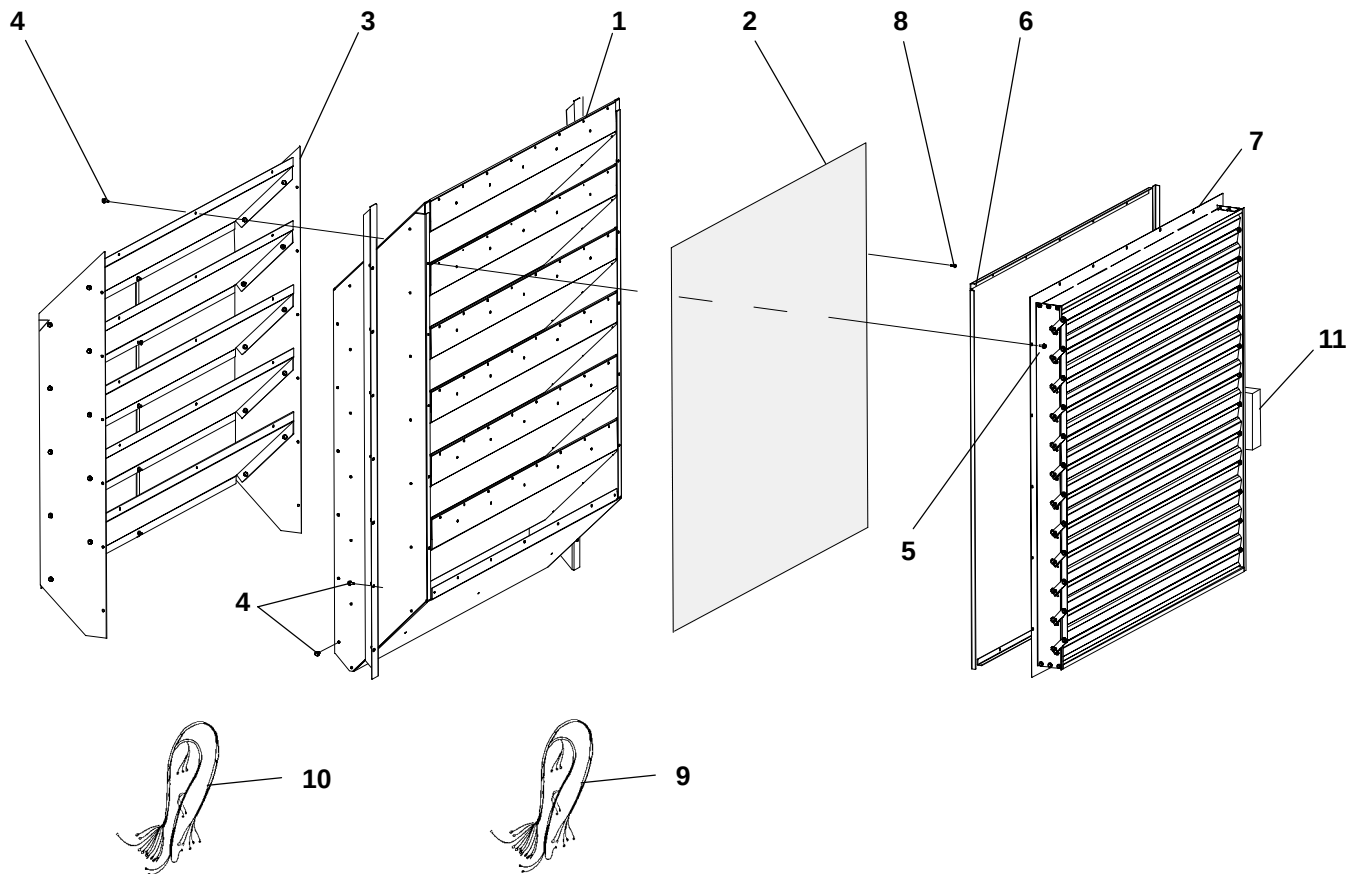
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	332-3235	4	Standoff, Printed Circuit Board (#6-32 x .75)

Louver Assembly Steel Air Inlet



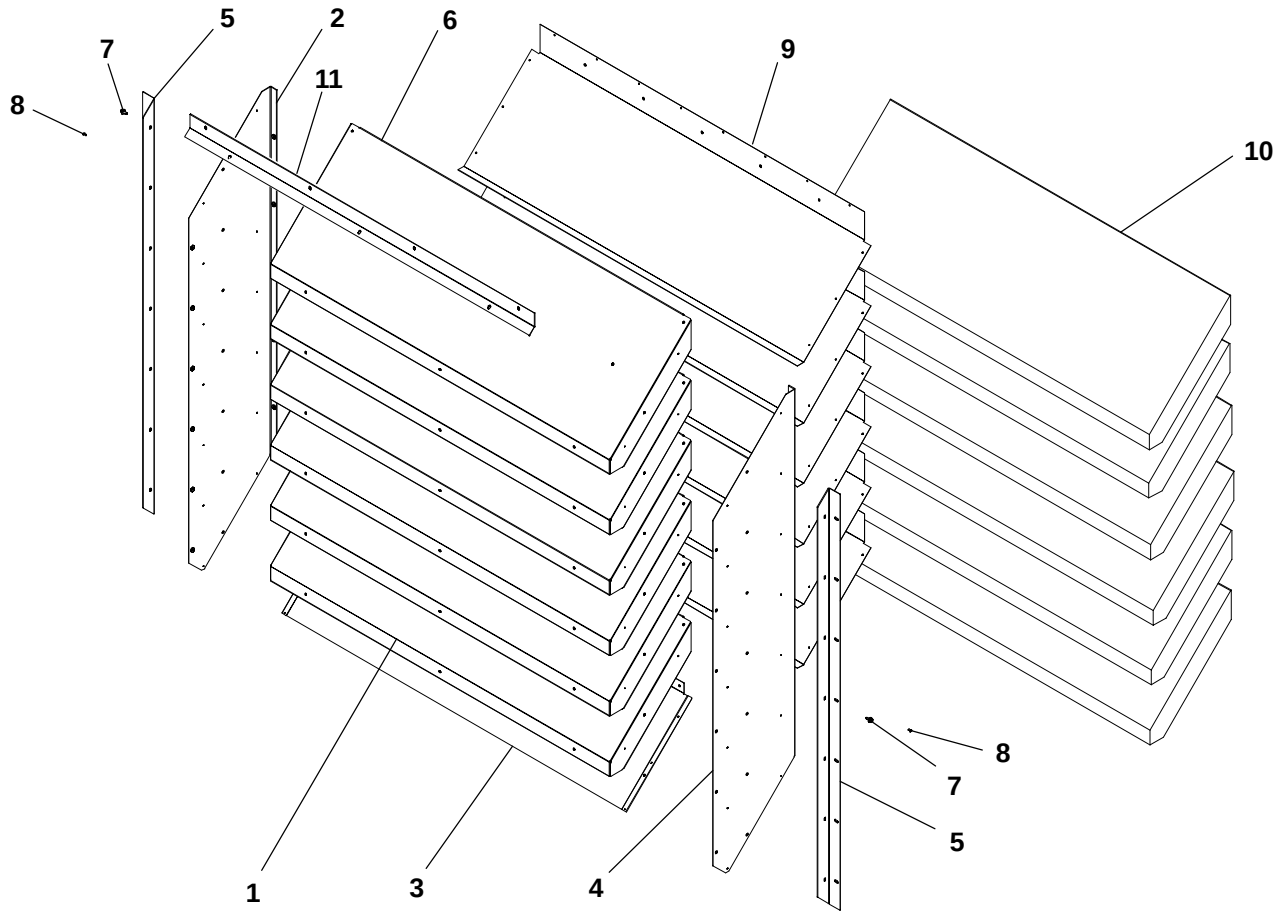
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Louver Assembly (See Separate Page for Components)	5	821-6003-02	20	Screw, Hex Head (M8 x 1.25 x 20)
	405-7631-01	1	Weather Louvers	6	405-7606-02	4	Bracket, Grill
	405-7631-02	1	Acoustic Louvers	7			Louver - Damper
2	405-7569	1	Grill, Enclosure - Mesh		405-7539-01	1	Spring Open - AC
3	405-7633	1	Louver Assembly - Rain Hood (See Separate Page for Components)		405-7539-02	1	Spring Closed - DC
4			Screw, Hex Head (M8 x 1.25 x 20)	8	406-0929	10	Clip, Panel - With Grill
	821-6007-02	23	Without Rain Hood	9	338-4295-01	1	Harness, Control
	821-6007-02	50	With Rain Hood	10	338-4295-03	1	Harness, Motor
				11	405-7754	1	Actuator, Louver (24V)

Louver Assembly Aluminum Air Inlet



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Louver Assembly (See Separate Page for Components)	5	821-6003-02	20	Screw, Hex Head (M8 x 1.25 x 20)
	405-7720-01	1	Weather Louvers	6	405-7728	4	Bracket, Grill
	405-7720-02	1	Acoustic Louvers	7			Louver - Damper
2	405-7569	1	Grill, Enclosure - Mesh		405-7539-01	1	Spring Open - AC
3	405-7726	1	Louver Assembly - Rain Hood (See Separate Page for Components)		405-7539-02	1	Spring Closed - DC
4			Screw, Hex Head (M8 x 1.25 x 20)	8	406-0929	10	Clip, Panel - With Grill
	821-6007-02	27	Without Rain Hood	9	338-4295-01	1	Harness, Control
	821-6007-02	54	With Rain Hood	10	338-4295-03	1	Harness, Motor
				11	405-7754	1	Actuator, Louver (24V)

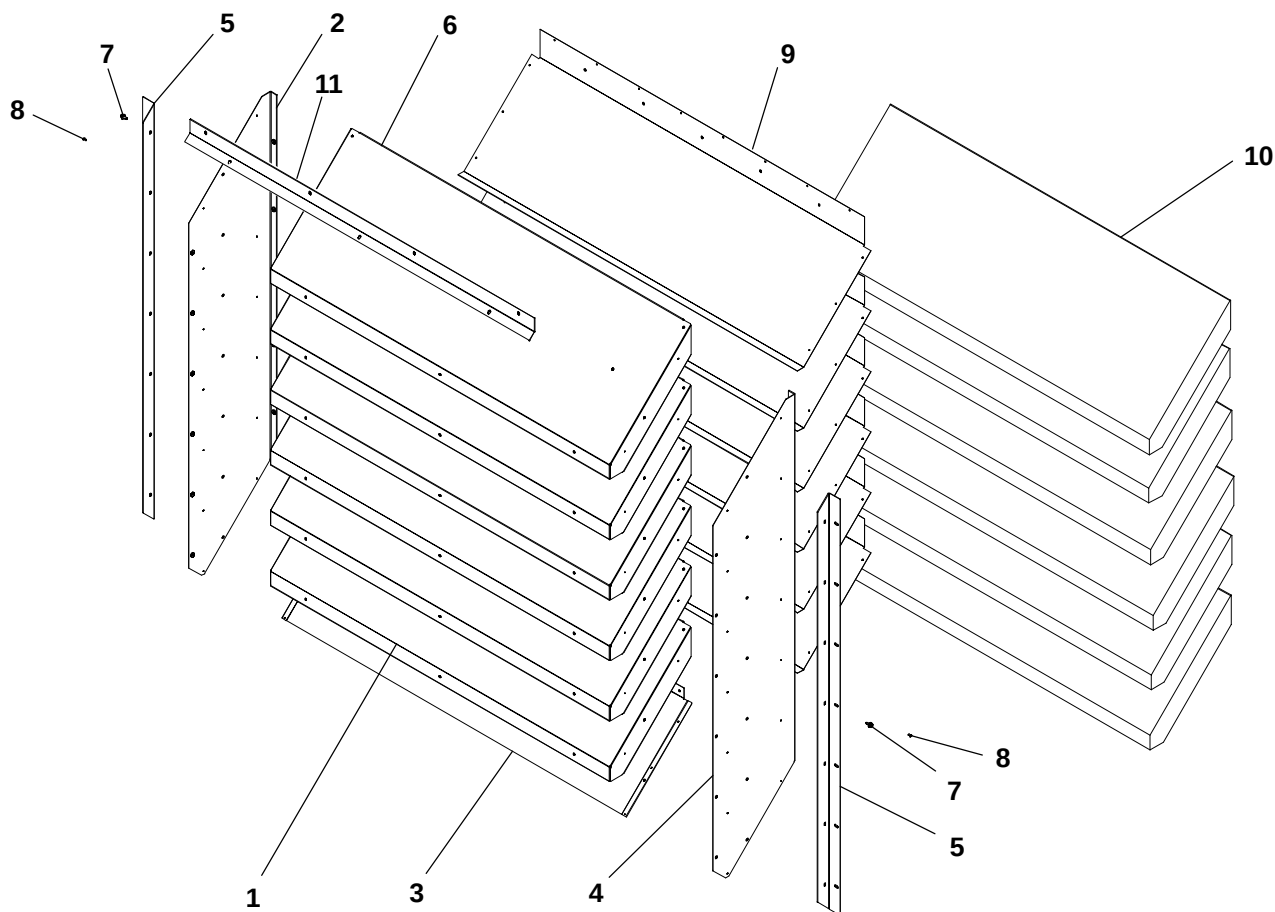
Louver Assembly Steel Weather and Acoustic



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7534-02	5	Louver - Upper
2	405-7553-02	1	Panel, Duct - Right
3	405-7557-02	1	Louver - Bottom
4	405-7554-02	1	Panel, Duct - Left
5	405-7558-02	2	Bracket, Duct
6	405-7534-04	1	Louver - Upper
7	821-6007-02	17	Screw, Hex Head (M8 x 1.25 x 20)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8			Rivet, Pop
	818-0231-01	28	With Weather Louver
	818-0231-01	112	With Acoustic Louver
9	405-7535	6	Louver - Acoustic
10	405-6000-15	6	Insulation, Panel - With
			Acoustic Louver
11	405-7755-02	1	Panel, Duct (Filler)

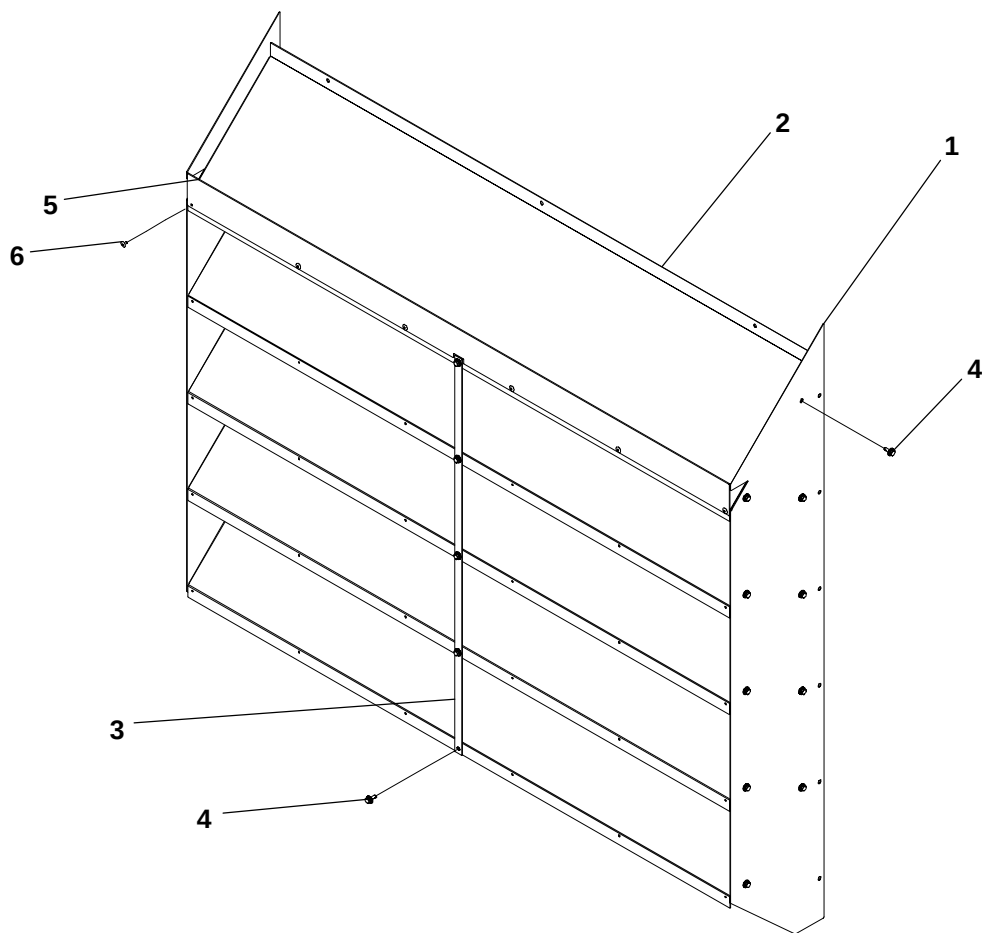
Louver Assembly Aluminum Weather and Acoustic



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7721-01	5	Louver – Upper
2	405-7722	1	Panel, Duct – Right
3	405-7724	1	Louver – Bottom
4	405-7723	1	Panel, Duct – Left
5	405-7725	2	Bracket, Duct
6	405-7721-02	1	Louver – Upper
7	821-6007-02	17	Screw, Hex Head (M8 x 1.25 x 20)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8			Rivet, Pop
	818-0231-01	28	With Weather Louver
	818-0231-01	112	With Acoustic Louver
9	405-7535	6	Louver – Acoustic
10	405-6000-15	6	Insulation, Panel – With Acoustic Louver
11	405-7800	1	Panel, Duct (Filler)

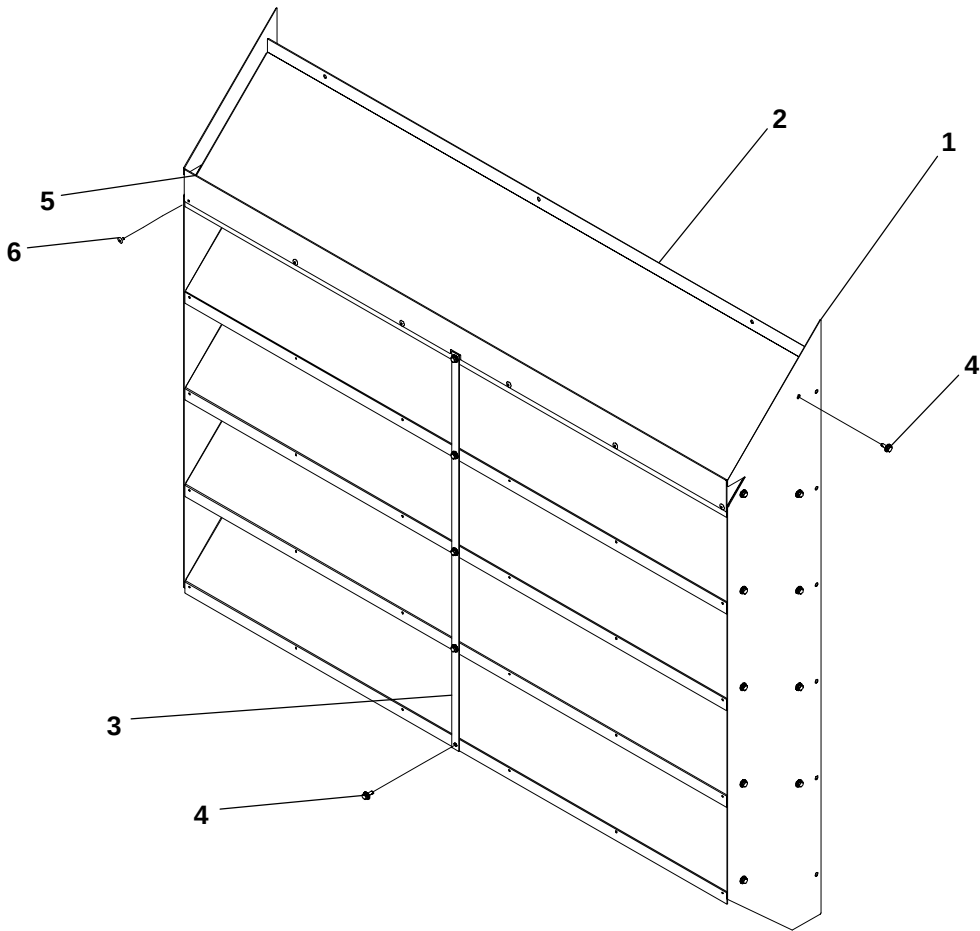
Louver Assembly Steel Rain Hood



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7634-02	2	Panel, Duct
2	405-7632-02	5	Louver
3	405-7635-02	1	Bracket, Duct
4	821-6007-02	25	Screw, Hex Head (M8 x 1.25 x 20)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	405-7810-02	1	Louver - Rain Guide
6	818-0231-06	6	Rivet, Pop (3/16)

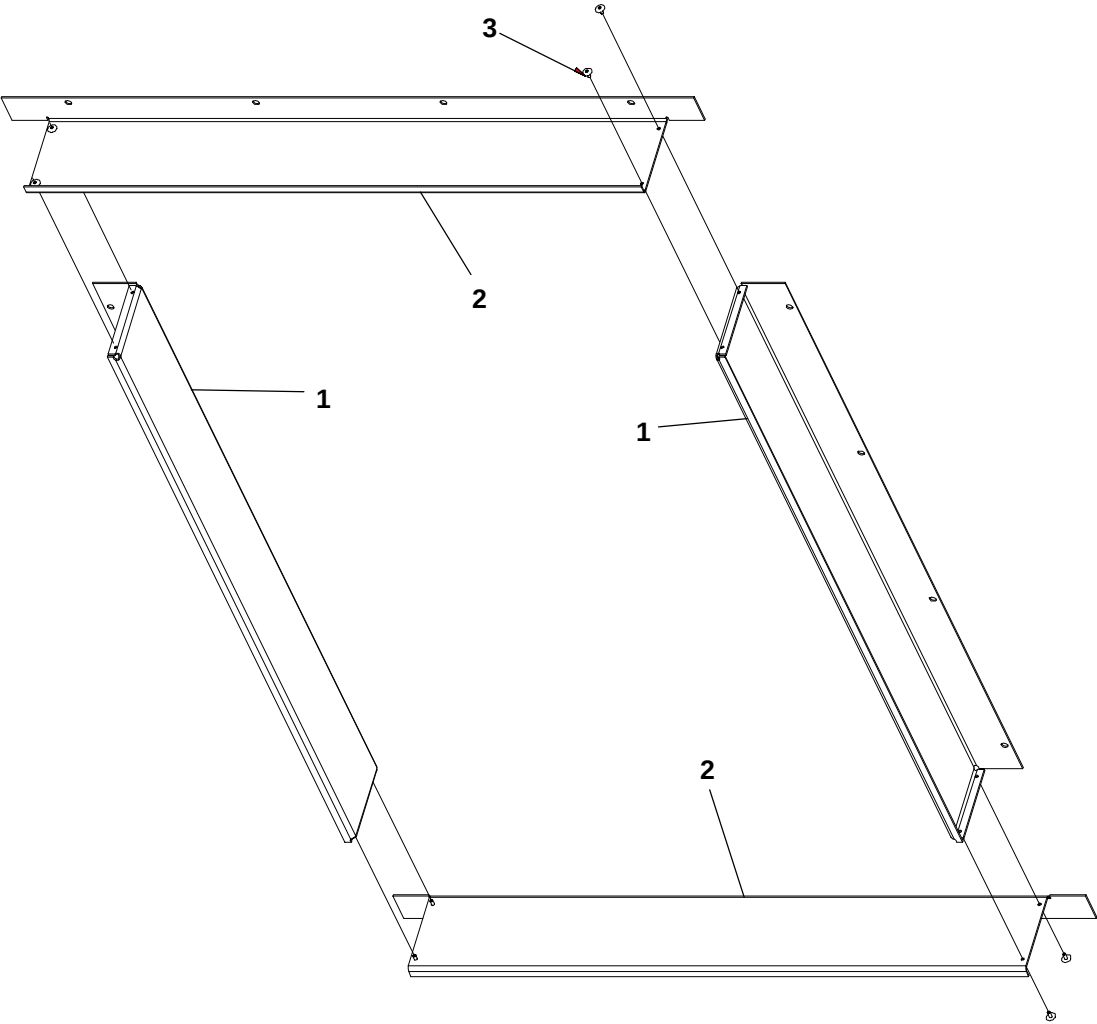
Louver Assembly Aluminum Rain Hood



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7730	2	Panel, Duct
2	405-7727	5	Louver
3	405-7729	1	Bracket, Duct
4	821-6007-02	25	Screw, Hex Head (M8 x 1.25 x 20)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	405-7825	1	Louver – Rain Guide
6	818-0231-02	6	Rivet, Pop

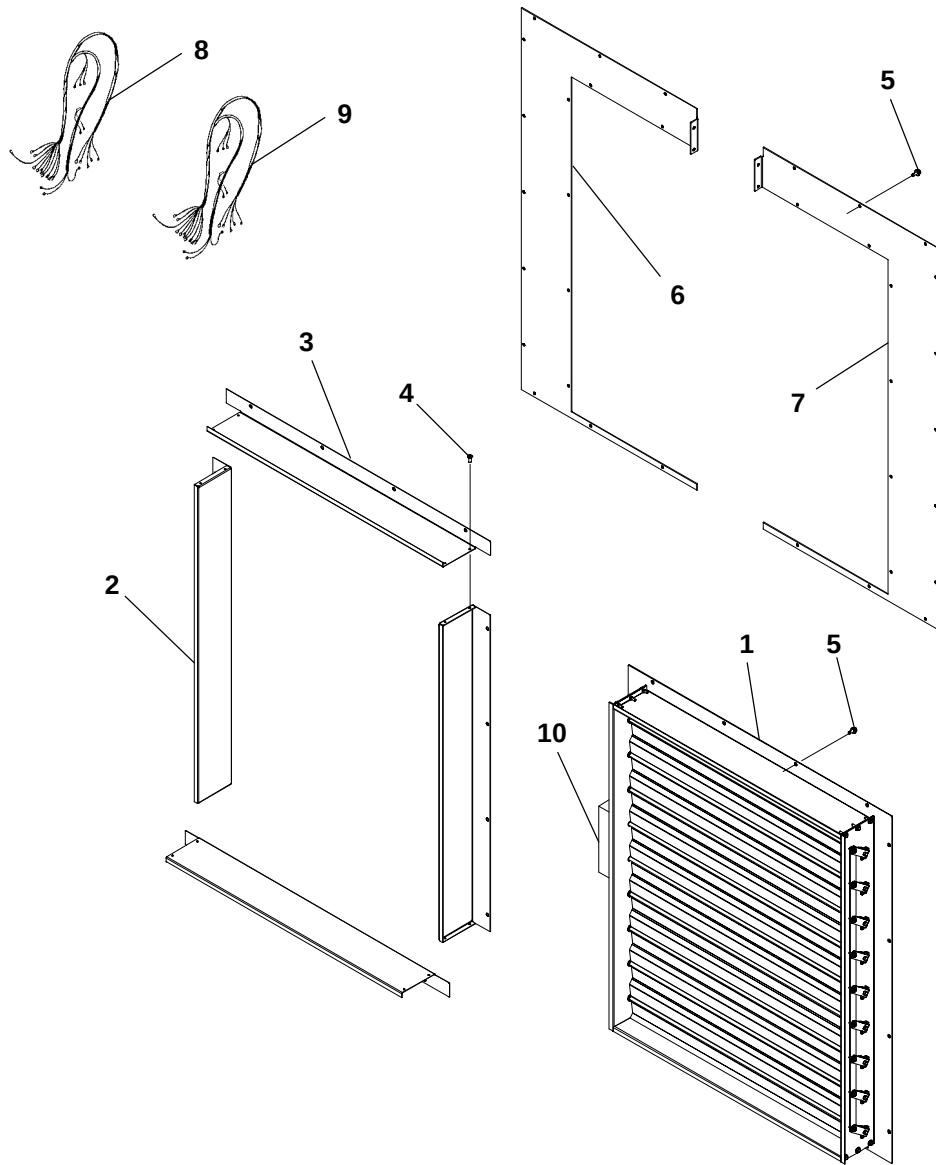
Air Duct
Aluminum Enclosure



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7922	2	Duct, Air – Side
2	405-7923	2	Duct, Air – Top and Bottom

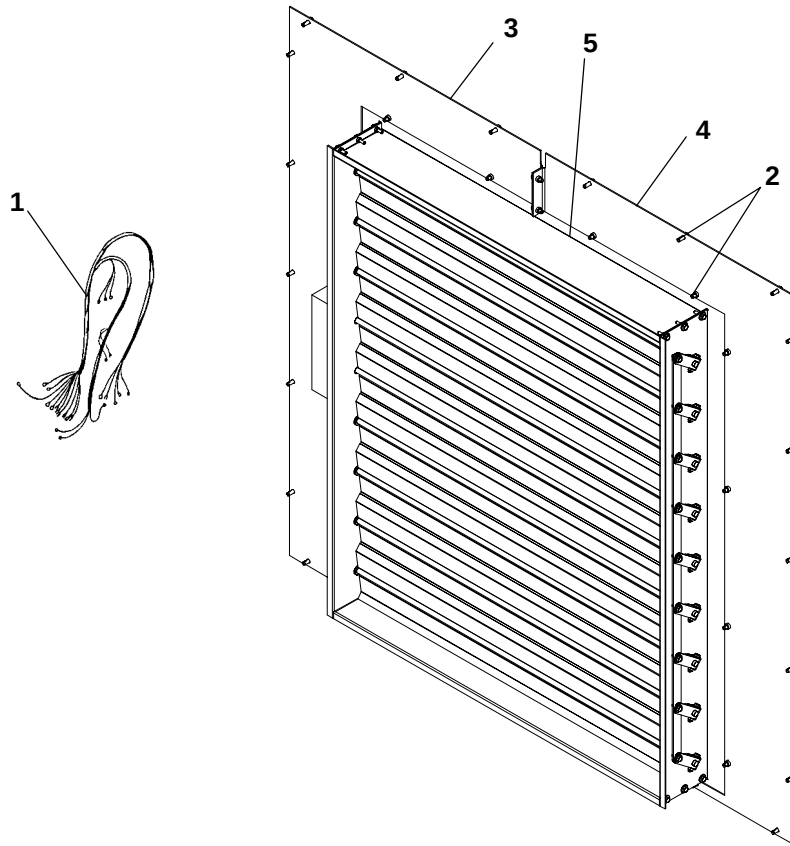
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	818-0231-06	8	Rivet, Pop

Louver Assembly Steel Enclosure



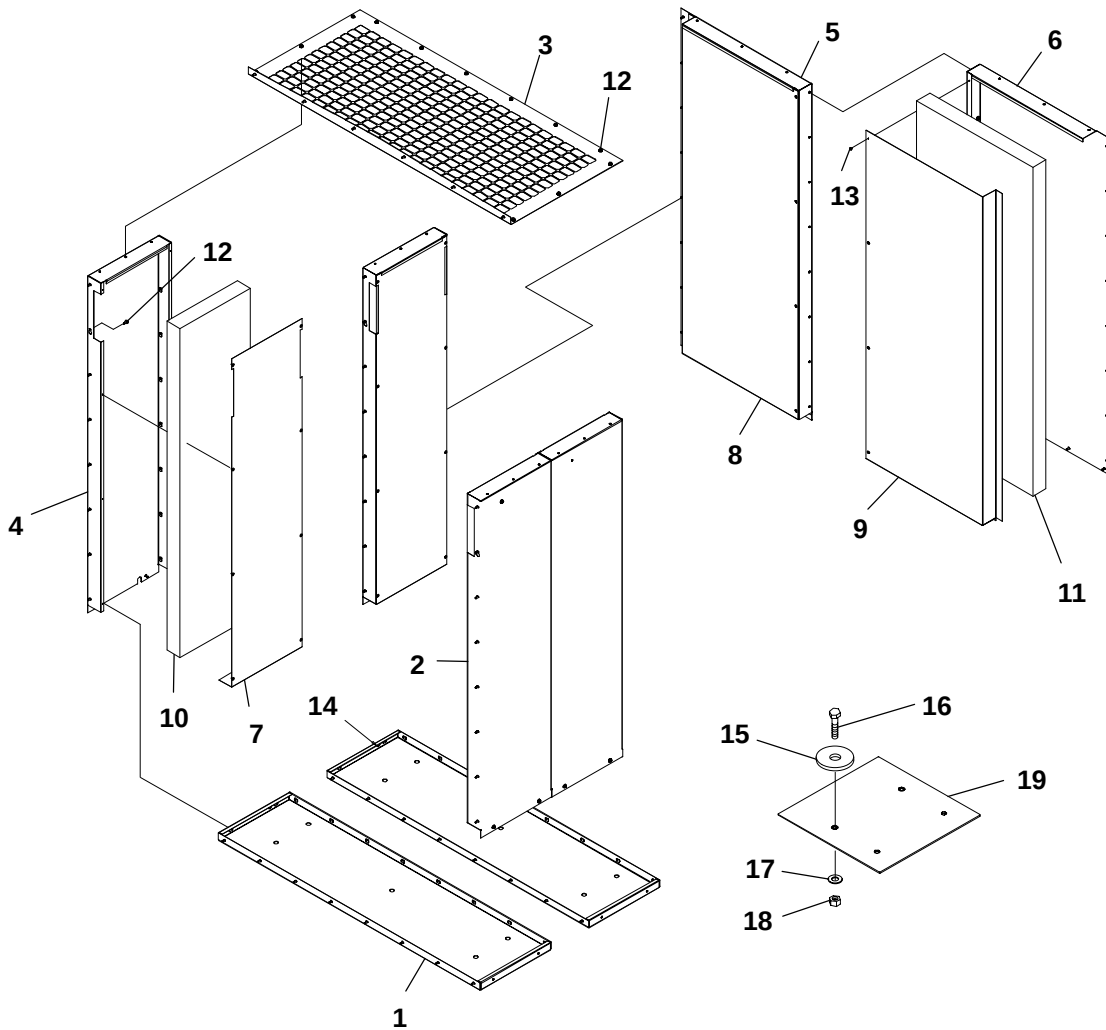
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Louver Assembly (Damper Auto)	5	821-6007-02	36	Screw, Hex Head (M8 x 1.25 x 20)
	405-7503-01	1	Spring Open	6	405-7596-02	1	Panel, Duct - Left
	405-7503-02	1	Spring Closed	7	405-7531-02	1	Panel, Duct - Right
2	405-7599-02	2	Duct, Air - Side	8	338-4295-02	1	Harness, Control
3	405-7600-02	2	Duct, Air - Top, Bottom	9	338-4295-03	1	Harness, Motor
4	818-0231-01	8	Rivet, Pop	10	405-7754	1	Actuator, Louver (24V)

Louver Assembly Aluminum Enclosure



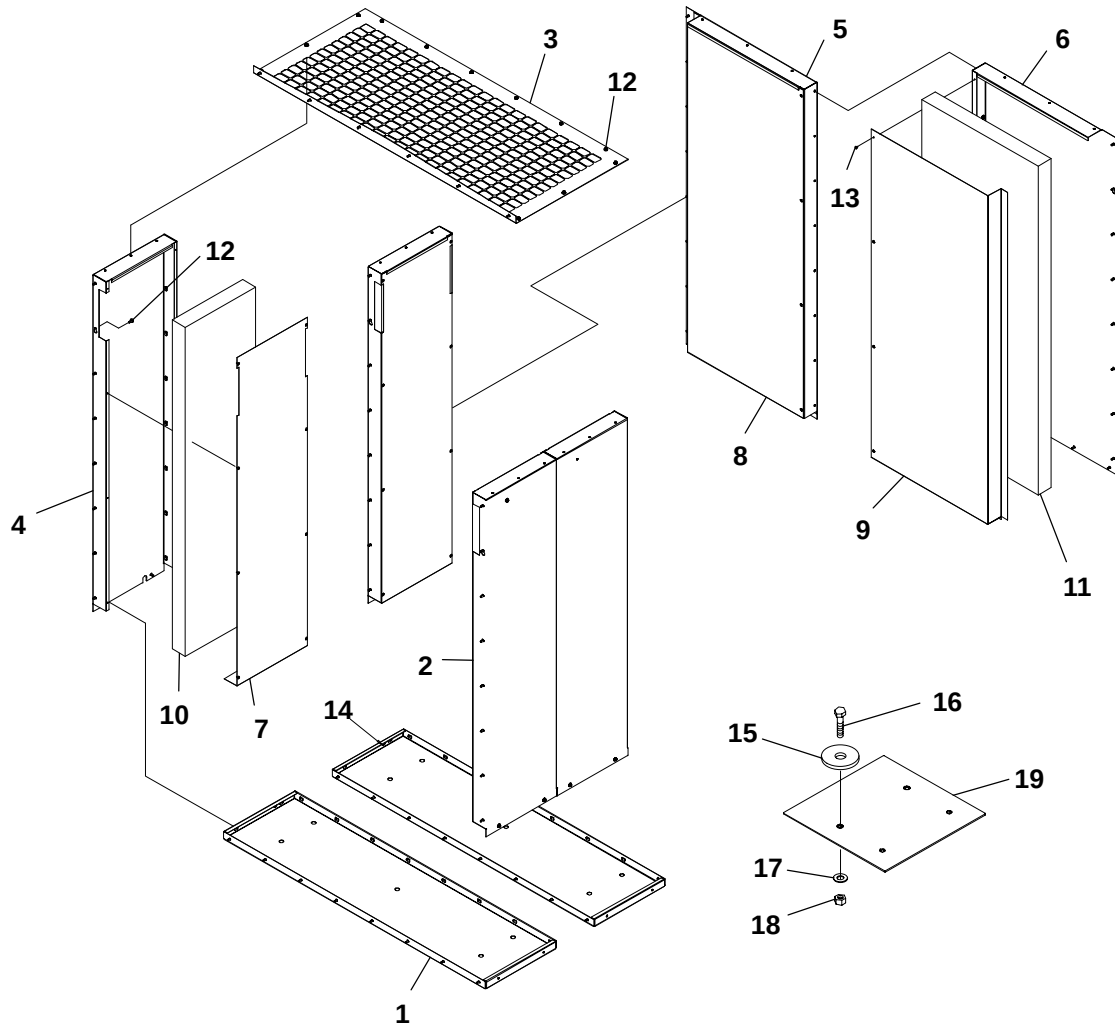
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4295-02	1	Motor, Harness – With Louver To Exhaust and Intake Louvers	3	405-7924	1	Panel, Duct – Left
	338-4295-03	1	24VAC Actuator Power From Transformer	4	405-7925	1	Panel, Duct – Right
2	821-6007-02	36	Screw, Hex Head (M8 x 1.25 x 20)	5	405-7503-01	1	Louver Spring Open
					405-7503-02	1	Louver Spring Closed

Enclosure Steel Air Discharge – Vertical



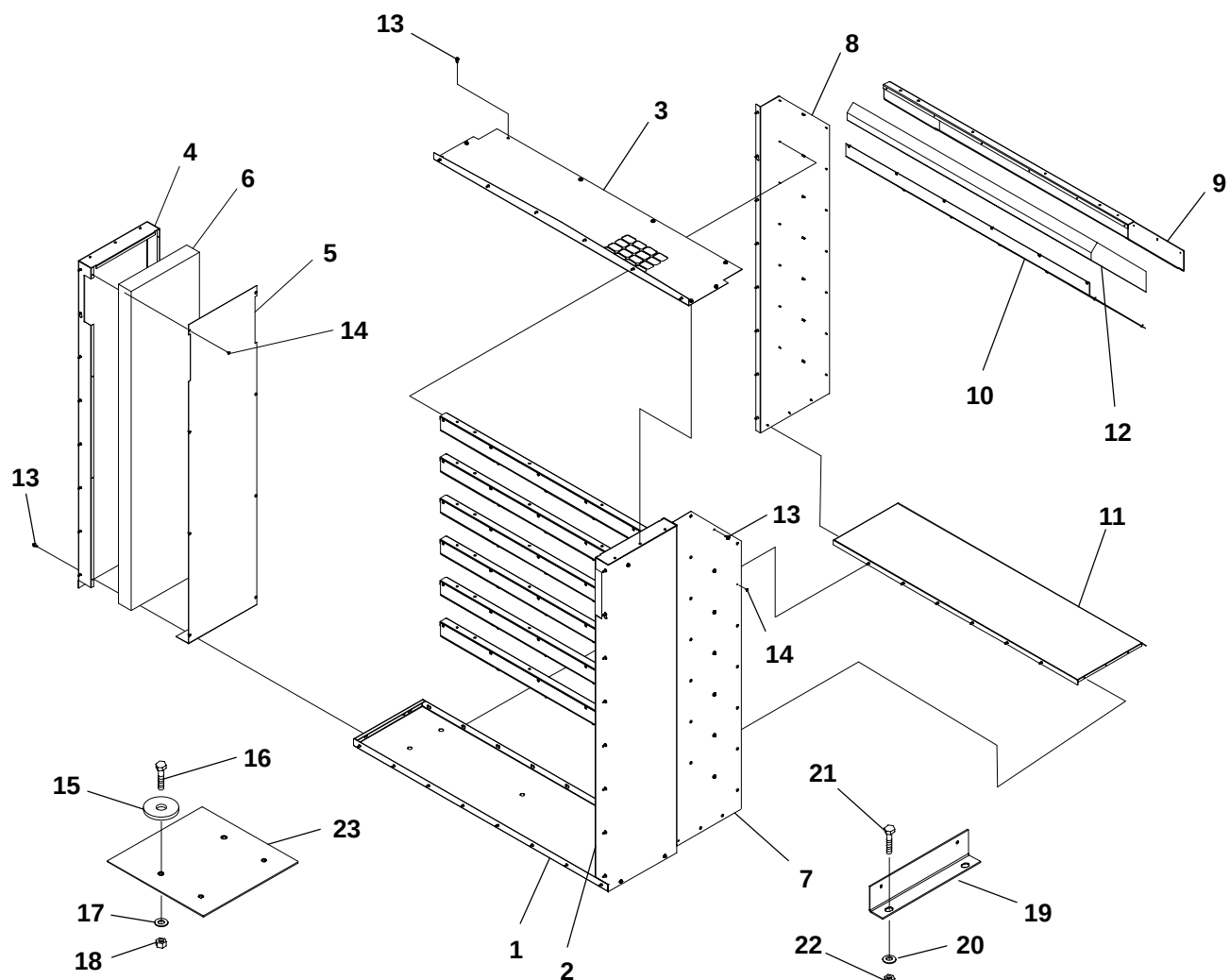
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7537-02	2	Panel, Enclosure – Bottom	12	821-6007-02	108	Screw, Hex Head (M8 x 1.25 x 20)
2	405-7587-02	2	Panel, Enclosure	13	818-0231-06	40	Rivet, Pop (3/16)
3	405-7538-02	1	Grill, Enclosure	14	517-0136-01	1	Plug, Hole
4	405-7579-02	2	Panel, Enclosure – Left	15	526-0172	4	Washer, Flat (1/2)
5	405-7540-02	1	Panel, Enclosure	16	800-2114	4	Screw, Cap – Hex Head (M12 x 1.75 x 40)
6	405-7580-02	1	Panel, Enclosure – Right	17	526-2140	4	Washer, Flat (M12)
7	405-7581	4	Retainer, Insulation	18	860-2010	4	Nut, Hex (M12)
8	405-7582	1	Retainer, Insulation	19	155-4138-02	2	Bracket, Muffler
9	405-7583	1	Retainer, Insulation – Right				
10	405-6000-13	4	Insulation, Panel – Side				
11	405-6000-14	2	Insulation, Panel – End				

Enclosure Aluminum Air Discharge – Vertical



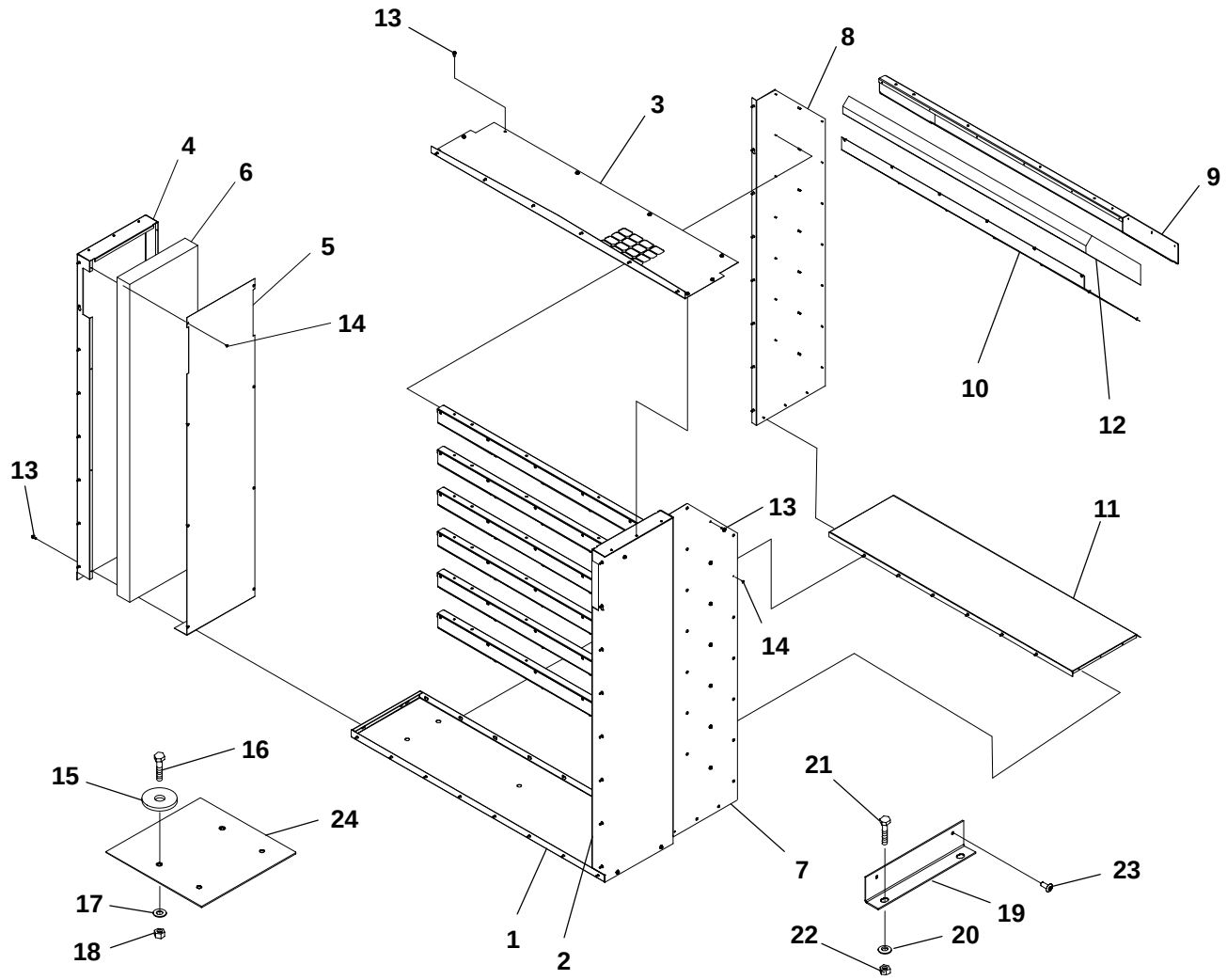
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7761	2	Panel, Enclosure – Bottom	12	821-6007-02	108	Screw, Hex Head (M8 x 1.25 x 20)
2	405-7762	2	Panel, Enclosure	13	818-0231-06	40	Rivet, Pop (3/16)
3	405-7763	1	Grill, Enclosure	14	517-0136-01	1	Plug, Hole (.812")
4	405-7764	2	Panel, Enclosure – Left	15	526-0172	4	Washer, Flat (1/2)
5	405-7765	1	Panel, Enclosure	16	800-2114	4	Screw, Cap – Hex Head (M12 x 1.75 x 40)
6	405-7766	1	Panel, Enclosure – Right	17	526-2140	4	Washer, Flat (M12)
7	405-7581	4	Retainer, Insulation	18	860-2010	4	Nut, Hex (M12)
8	405-7582	1	Retainer, Insulation	19	155-4138-02	2	Bracket, Muffler
9	405-7583	1	Retainer, Insulation – Right				
10	405-6000-13	4	Insulation, Panel – Side				
11	405-6000-14	2	Insulation, Panel – End				

Enclosure Steel Air Discharge – Horizontal



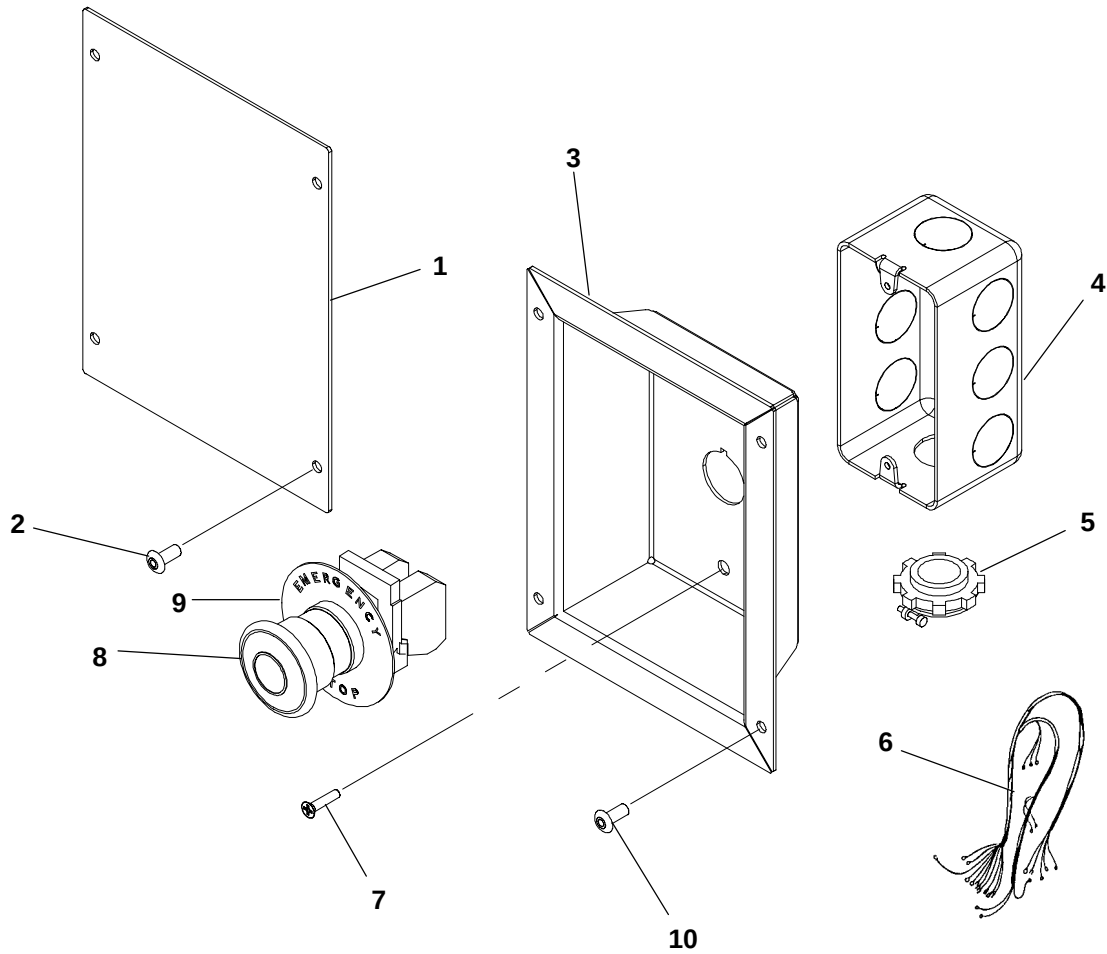
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7537-02	1	Panel, Enclosure – Bottom	14	818-0231-06	134	Rivet, Pop (3/16)
2	405-7587-02	1	Panel, Enclosure	15	526-0172	4	Washer, Flat (1/2)
3	405-7588-02	1	Grill, Enclosure	16	800-2114	4	Screw, Cap – Hex Head (M12 x 1.75 x 40)
4	405-7579-02	1	Panel, Enclosure – Left	17	526-2140	4	Washer, Flat (M12)
5	405-7581	2	Retainer, Insulation	18	860-2010	4	Nut, Hex (M12)
6	405-6000-13	2	Insulation, Panel – Side	19	405-7732-02	2	Bracket, Duct
7	405-7589-02	1	Frame, Louver	20	526-2109	8	Washer, Flat (M8)
8	405-7590-02	1	Frame, Louver – Left	21	800-2058	4	Screw, Cap – Hex Head (M8 x 1.25 x 25)
9	405-7591-02	7	Louver – Outlet	22	860-2008	4	Nut, Hex (M8)
10	405-7592	7	Retainer, Insulation – Louver	23	155-4138-02	2	Bracket, Muffler
11	405-7595-02	1	Panel, Air Baffle – Louver				
12	405-6000-12	7	Insulation, Panel – Louver				
13	821-6007-02	74	Screw, Hex Head (M8 x 1.25 x 20)				

Enclosure Aluminum Air Discharge – Horizontal



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7761	1	Panel, Enclosure – Bottom	14	818-0231-06	134	Rivet, Pop (3/16)
2	405-7762	1	Panel, Enclosure	15	526-0172	4	Washer, Flat (1/2)
3	405-7782	1	Grill, Enclosure	16	800-2114	4	Screw, Cap – Hex Head (M12 x 1.75 x 40)
4	405-7764	1	Panel, Enclosure – Left	17	526-2140	4	Washer, Flat (M12)
5	405-7581	2	Retainer, Insulation	18	860-2010	4	Nut, Hex (M12)
6	405-6000-13	2	Insulation, Panel – Side	19	405-7787	2	Bracket, Duct
7	405-7783	1	Frame, Louver – Right	20	526-2109	8	Washer, Flat (M8)
8	405-7784	1	Frame, Louver – Left	21	800-2058	4	Screw, Cap – Hex Head (M8 x 1.25 x 25)
9	405-7785	7	Louver – Outlet	22	860-2008	4	Nut, Hex (M8)
10	405-7592	7	Retainer, Insulation – Louver	23	818-0231-03	4	Rivet, Pop (3/16)
11	405-7786	1	Panel, Air Baffle – Louver	24	155-4138-02	2	Bracket, Muffler
12	405-6000-12	7	Insulation, Panel – Louver				
13	821-6007-02	74	Screw, Hex Head (M8 x 1.25 x 20)				

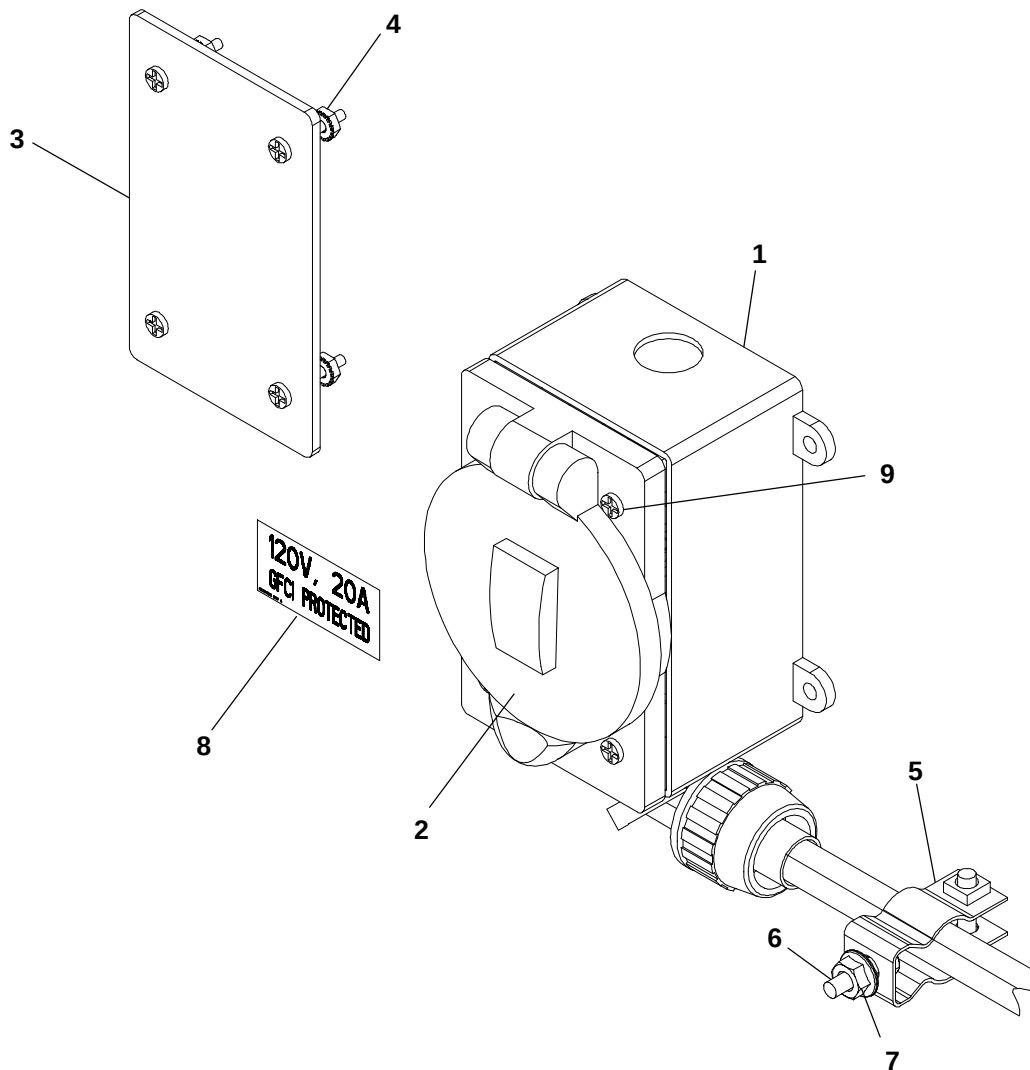
Emergency Stop Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cover, Enclosure - Adapter
	405-7658-02	1	Plug Steel
	405-7997	1	Aluminum
2	818-0231-02	4	Rivet, Pop
3	319-5125	1	Cup, Switch
4	330-0005	1	Box, Handy
5	331-0027	1	Connector, Romex

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	338-4293	1	Harness, Switch - E-Stop
7	815-0918	2	Screw, Machine - Flat Head - Cross Recessed (#6-32 x .62)
8	308-0999	1	Switch, Push Button - E-Stop
9	308-1177	1	Bezel, Switch
10	818-0231-06	4	Rivet, Pop

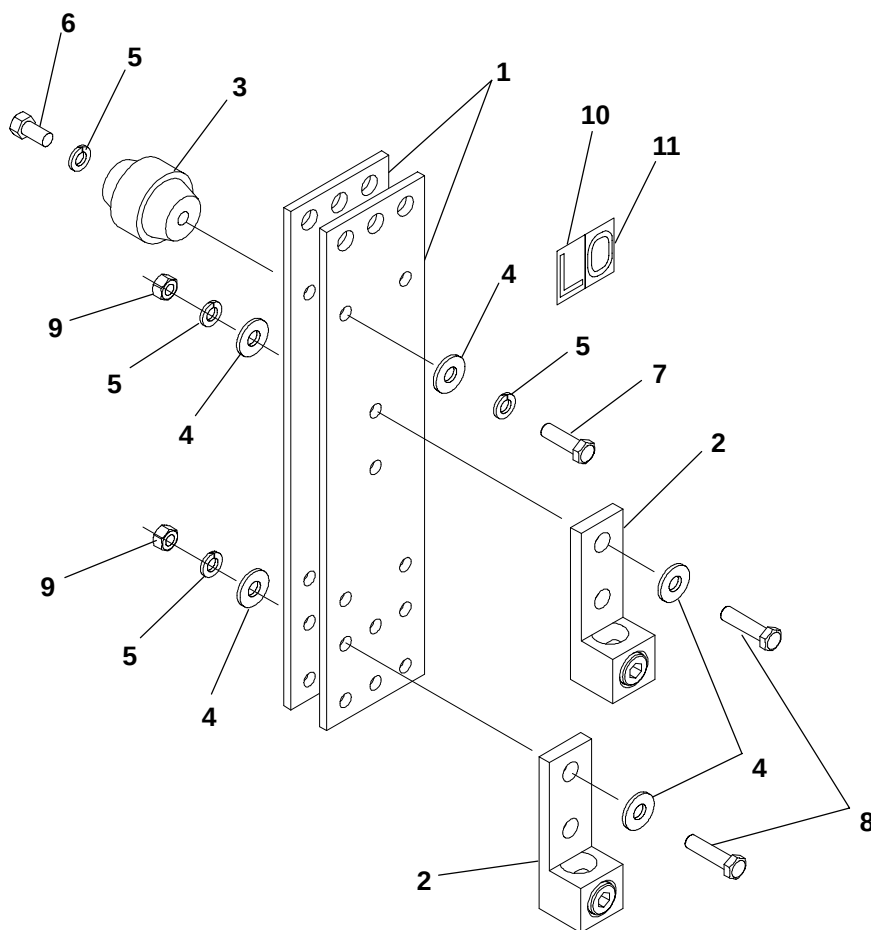
External Receptacle



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	323-2102-01	1	Receptacle
2	330-0157	1	Cover, Receptacle
3	330-0158	1	Cover, Outlet Box – Blank
4	870-0183	4	Nut, Hex – W/ET (#6-32)
5	331-0602	6	Clamp, Conduit

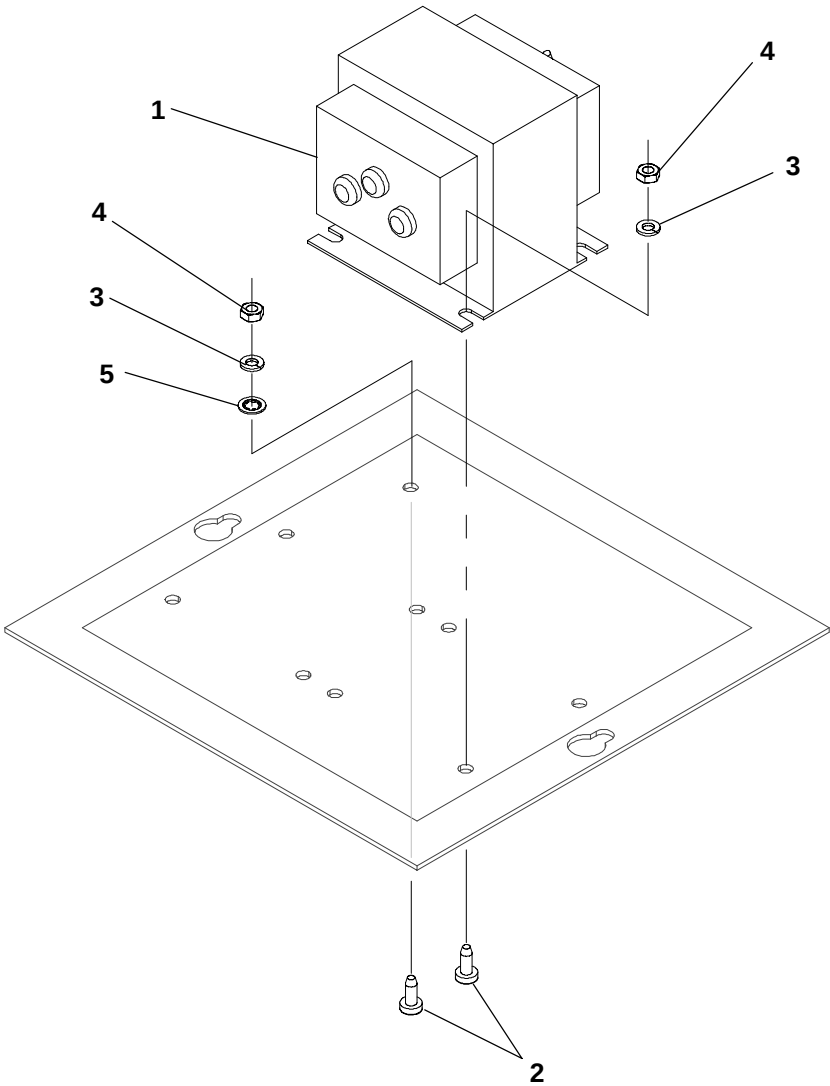
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	821-6002-03	6	Screw, Hex Head (M6 x 1 x 16)
7	870-2054	3	Nut, Locking – Flange (M6 x 1)
8	098-8185	1	Label, Information
9	812-0068	4	Screw, Hex (#6-32 x 1.0)

Neutral Bar



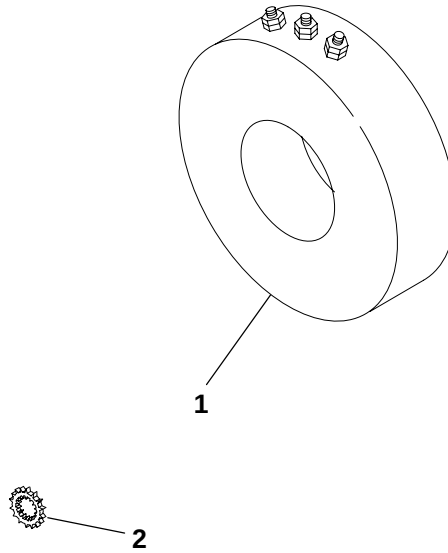
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	337-3514	2	Bar, Neutral	7	800-0051	2	Screw, Cap – Hex Head (3/8-16 x 1.25)
2	332-3788	3	Lug, Solderless	8	800-0053	6	Screw, Cap – Hex Head (3/8-16 x 1.75)
3	332-2744-07	2	Standoff, Insulator	9	862-0003	6	Nut, Hex – Heavy (3/8-16)
4	526-0399-20	14	Washer, Flat	10	098-5854-06	1	Label, Bus Marking
5	850-0050	10	Washer, Lock – Split (3/8)	11	098-5854-10	1	Label, Bus Marking
6	800-0048	2	Screw, Cap – Hex Head (3/8-16 x .75)				

24VAC Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	315-1613	2	Transformer, Control	3	850-2003	9	Washer, Lock – Split (M3)
2	815-0959-03	9	Screw, Cross Recessed – Pan Head – W/ET (M3 x 0.5 x 8)	4	860-2053	9	Nut, Hex (M3 x 0.5)
				5	854-0006	1	Washer, Lock – W/EIT (#6)

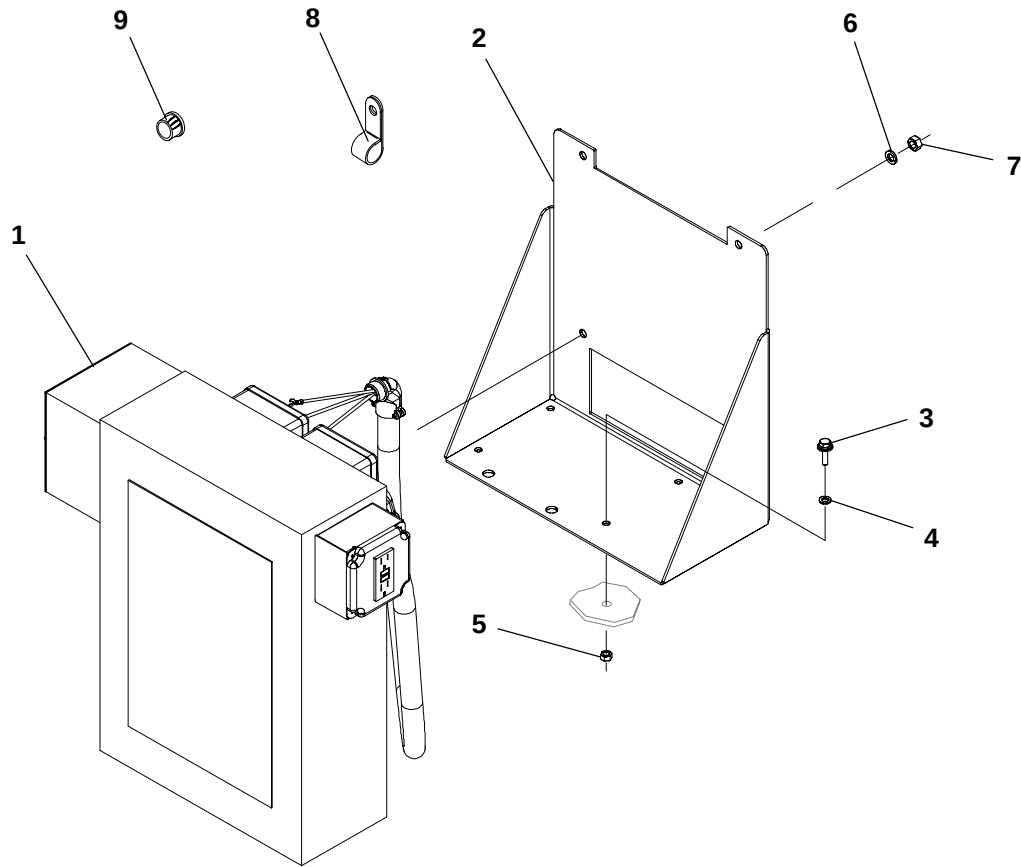
Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current
	302-2057-15	3	(Ratio 552/1, 1104/1)
	302-2057-16	3	(Ratio 604/1, 1208/1)
	302-2057-18	3	(Ratio 656/1, 1312/1)
	302-2057-21	3	(Ratio 789/1, 1578/1)
	302-2057-23	3	(Ratio 867/1, 1734/1)
	302-2057-24	3	(Ratio 946/1, 1892/1)

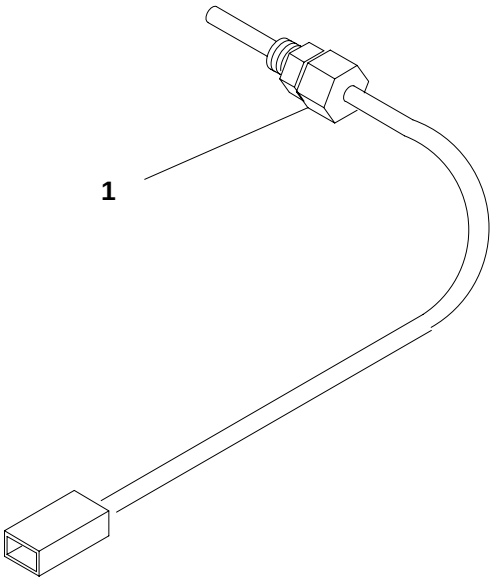
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	856-0008	2	Washer, Lock – EIT (5/16")

Distribution Panel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	320-2197	1	Breaker, Circuit – Assembly	6	850-2010	4	Washer, Lock – Split (M10)
2	319-5100-02	1	Bracket, Circuit Breaker	7	860-2009	4	Nut, Hex (M10 x 1.5)
3	821-6003-03	4	Screw, Hex Head (M8 x 1.25 x 25)	8	518-0548-15	2	Clamp, Loop – With Coolant Heater
4	526-2101	4	Washer, Flat (M8)	9	517-0138-02	1	Plug, Hole – Without Coolant Heater
5	860-2008	4	Nut, Hex (M8 x 1.25)				

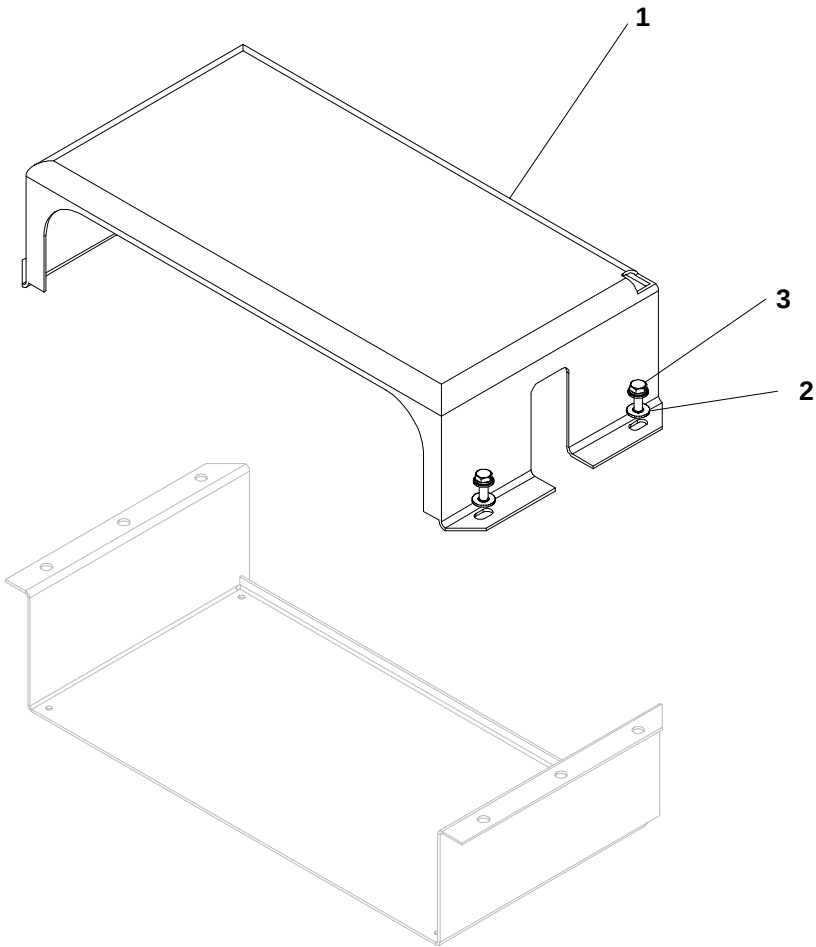
Pyrometer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0446-01	1	Pyrometer (12") (M26)

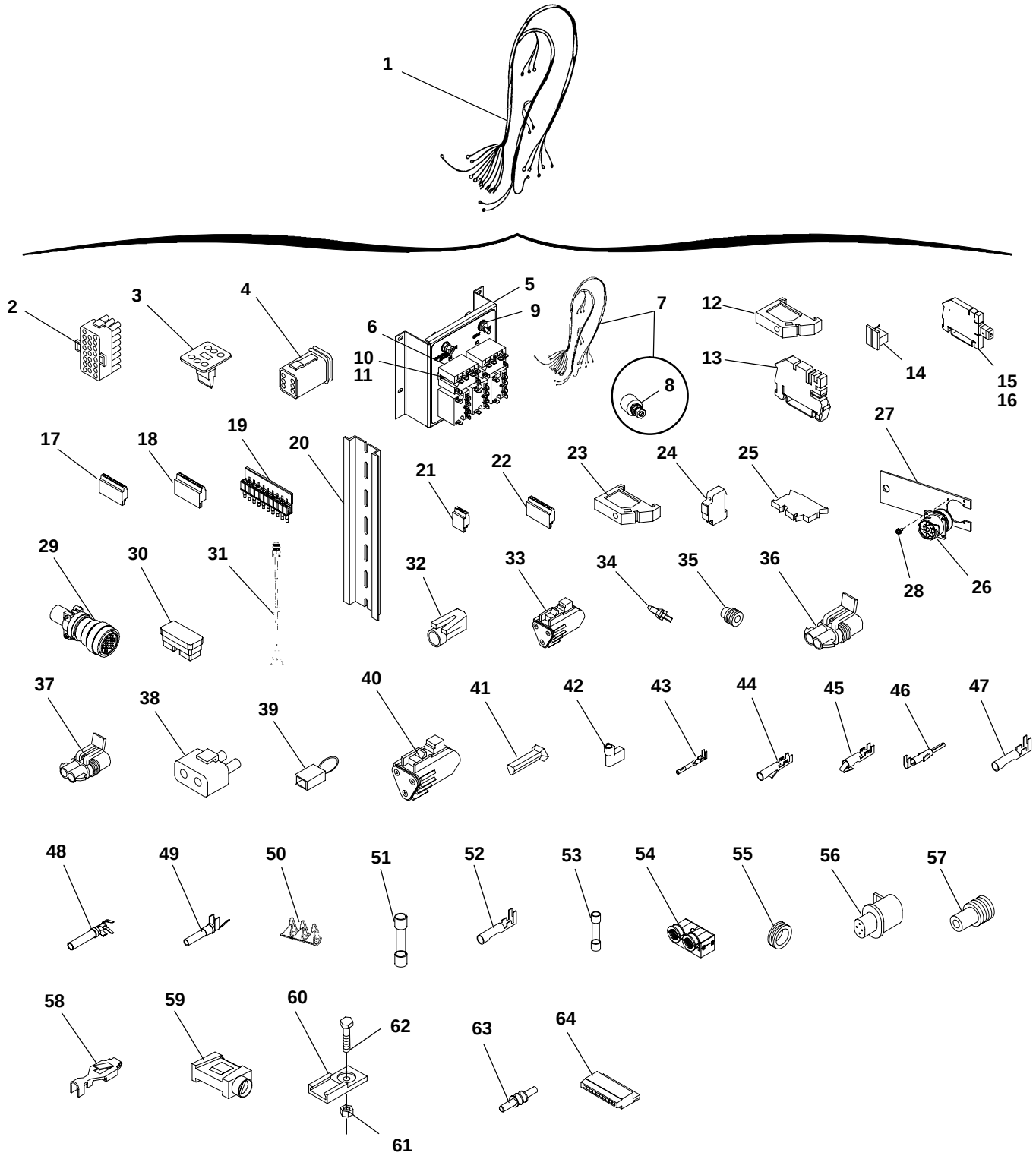
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
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Battery Cover



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	416-1068	2	Cover, Battery Tray	3	821-5004-02	8	Screw, Hex Head (3/8-16 x .75)
2	526-0399-42	8	Washer, Flat				

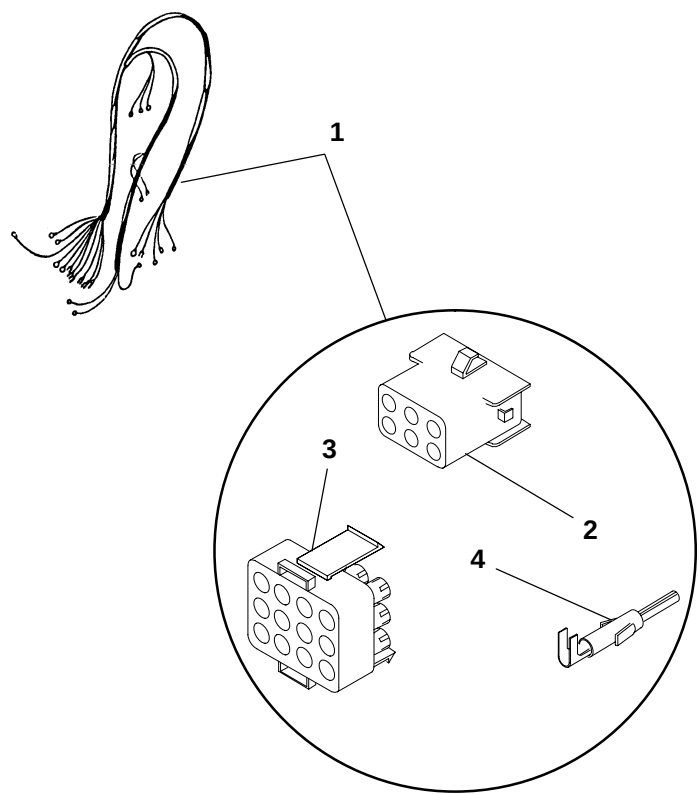
Wiring Harness Engine to Control



Harness Wiring Engine to Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4072	1	Harness, Wiring – Engine to Control (Includes the Following Parts)	29	323-1918	1	Connector – 31 Pin
2			Plug, Connector (23 Pin)	30	323-1919	1	Connector – 50 Pin
	323-1605-02	1	Natural (P4)	31	338-2592-02	1	Cable, Magnetic Pickup (P12)
	323-1605-03	1	Gray (P5)	32	323-1666	1	Connector, Socket (E1)
3	323-1624	1	Wedge, Plug (6 Pin) (P7)	33	323-1494	1	Connector, Receptacle – 3 Pin
4	323-1623	1	Plug (6 Pin) (P7)	34	323-1502	1	Wedge, Receptacle – 3 Pin
5	307-2970-02	1	Bracket, Relay	35	323-1445	8	Seal, Cable
6	307-2968-04	5	Relay, Power	36	323-1540	2	Connector, Socket (E2, E4)
7	338-4024	1	Harness, Wiring – Includes Potentiometer	37	323-1652	1	Connector, 2-Way
8	151-0402	1	Potentiometer	38	323-1637	2	Connector, Socket (E-6)
9	308-1107	1	Switch, Toggle – Locking Lever	39	338-3285	1	Harness, Jumper (E-6)
10	850-0114-51	10	Washer, Lock – Split (M4)	40	323-1493	2	Plug – 3 Pin (P3)
11	823-1001-04	10	Screw, Machine – Pan Head (M4 x 0.7 x 12)	41	323-1503	1	Wedge – 3 Pin (P3)
12	332-2878	4	End, Bracket – Terminal	42	332-2571	1	Terminal, Receptacle (S4)
13	332-3444	A/R	Block, Terminal	43	323-1614-01	30	Socket, Contact (P4, P5)
14	332-3446	A/R	Cover, Terminal	44	323-1667	3	Socket, Contact (E1)
15	332-3448-01	4	Bracket, Terminal Block (With Pin)	45	332-3096-01	4	Socket, Contact (E2, E4)
16	332-3448-02	4	Bracket, Terminal Block (Without Pin)	46	323-1718	2	Pin, Contact
17	332-3447-05	2	Plug, Terminal Block	47	323-1752	27	Socket, Contact
18	332-3447-13	2	Plug, Terminal Block	48	323-1492	15	Socket, Contact
19	332-3762-03	2	Jumper, Terminal – 10 Place	49	323-1491	10	Pin, Contact
20	332-2879-05	1	Rail, Terminal	50	332-3491-01	54	Pin, Contact (TB1, TB2, TB3)
21	332-3447-02	3	Plug, Terminal Block – 4 Place	51	321-0372-05	10	Fuse – 10 Amp
22	332-3447-05	1	Plug, Terminal Block – 10 Place	52	323-1444	2	Socket, Contact (E6)
23	332-2878	3	End, Bracket – Terminal	53	321-0363-31	2	Fuse – 20 Amp
24	321-0344	2	Block, Fuse	54	323-1924	1	Connector, Housing (50 Pin)
25	321-0373	10	Block, Fuse	55	508-1090	1	Grommet
26	323-1920	1	Connector – 9 Pin	56	323-1765	1	Connector, Housing (S7)
27	319-4439-02	1	Bracket, Connector	57	323-1708	3	Seal (S7)
28	815-0902	4	Screw, Cross Recessed – Pan Head – W/ET (#6-32 x .375)	58	323-1709	3	Socket, Contact (S7)
				59	323-1939	16	Lock, Connector
				60	323-1948	1	Bracket, Connector
				61	870-0131	1	Nut, Hex – W/ET (#10-32)
				62	815-0026	1	Screw, Truss (#10-32 x 3/8)
				63	323-1712	1	Plug, Cavity
				64	332-3447-13	2	Plug, Terminal Block

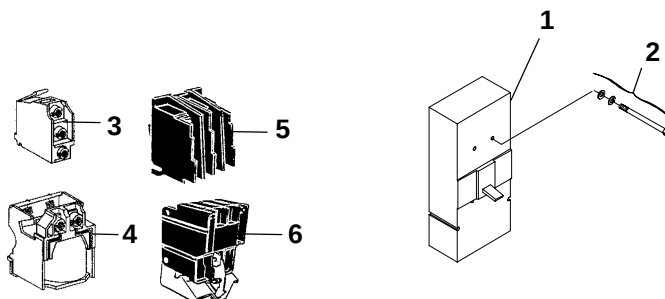
AC Wiring Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4002	1	Harness, Wiring (Includes the Following Parts)
2	323-1643-01	1	Housing, Plug and Cap

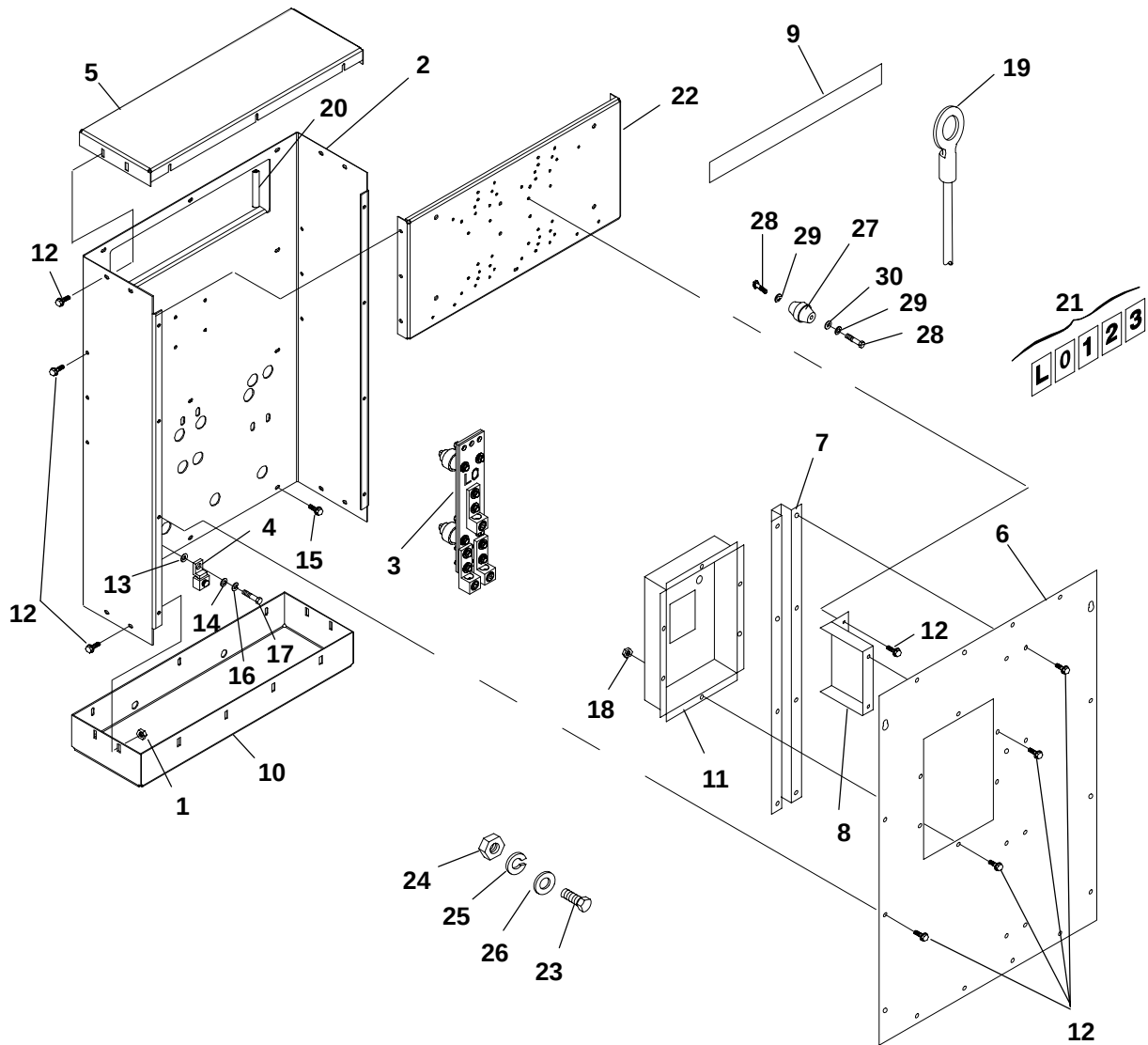
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	323-1644-03	1	Housing, Plug and Cap
3	323-1648	15	Socket, Contact

Circuit Breaker and Disconnect Switch UL Listed, IEC Conformity



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			The following listed Circuit Breakers and Disconnect Switches include lugs and mounting hardware. Breaker, Circuit 3 Pole (UL, IEC) 320-1959-06 1 125 Amp 320-1959-05 1 150 Amp 320-1959-04 1 175 Amp 320-1959-03 1 200 Amp 320-1959-02 1 225 Amp 320-1959-01 1 250 Amp 320-1960-06 1 300 Amp 320-1960-05 1 350 Amp 320-1960-04 1 400 Amp 320-1960-03 1 450 Amp 320-1960-02 1 500 Amp 320-1960-01 1 600 Amp 320-1964-05 1 700 Amp 320-1964-04 1 800 Amp 320-1964-03 1 900 Amp 320-1964-02 1 1000 Amp 320-1964-01 1 1200 Amp 4 Pole (IEC) 320-1960-10 1 320 Amp 320-1960-09 1 400 Amp 320-1960-08 1 500 Amp 320-1960-07 1 630 Amp 320-1964-08 1 800 Amp 320-1964-07 1 1000 Amp 320-1964-06 1 1250 Amp Disconnect Switches 3 Pole (UL, IEC) 320-1990-02 1 400 Amp 320-1990-01 1 600 Amp 320-1992-02 1 800 Amp 320-1992-01 1 1200 Amp	2			Package, Hardware – Mounting (Includes Screws, Nuts and Lock Washers – 1 Package Required Per Switch) 320-1986-08 1 Used With 320-1959-XX Circuit Breakers 320-1986-01 1 Used With 320-1964-XX Circuit Breakers and 320-1992-XX Disconnect Switches 320-1986-07 1 Used With 320-1990-XX Disconnect Switches Accessories, Circuit Breaker: The following are used on 320-1959-XX Circuit Breakers 3 320-1981-01 1 Switch – Used as a Trip Alarm or Auxiliary Contact 4 320-1981-03 1 24 Volt Shunt Trip Accessories, Circuit Breaker: The following are used on 320-1964-XX Circuit Breakers 5 320-1977-01 1 Switches – Includes 1 Trip Alarm and 1 Auxiliary Contact 6 320-1977-03 1 24 Volt Shunt Trip

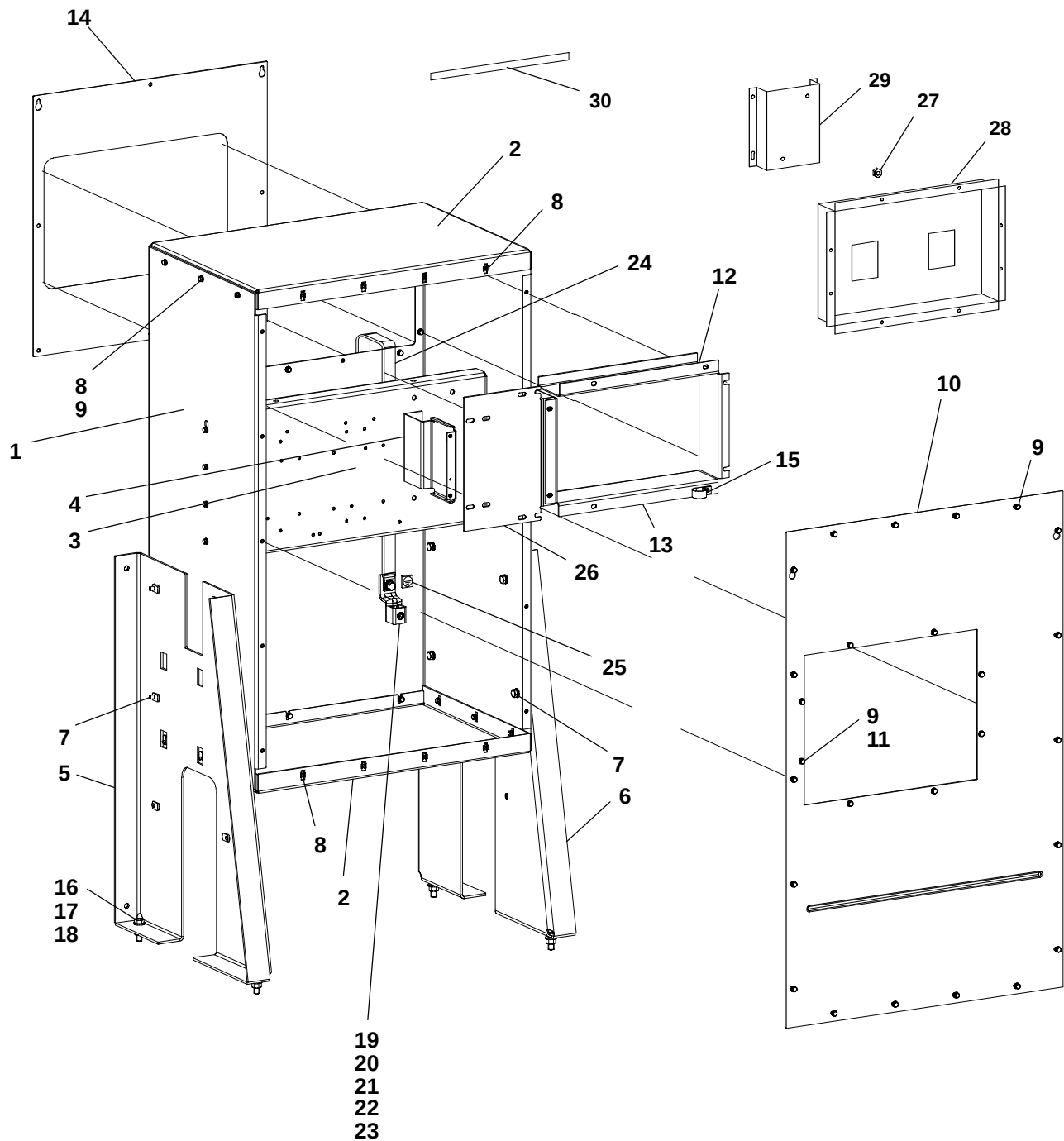
Circuit Breaker Box Without Enclosure



Circuit Breaker Box Without Enclosure

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0504	16	Nut, Self-Retaining (M6)	18	870-2054	4	Nut, Hex – Flange (M6)
2	319-3169	1	Box, Circuit Breaker	19			Lead (Quantity Used As Required) 39" (Without Markings) (#1/0 Wire)
3	337-3515-01	1	Bar Assembly, Neutral (See Separate Page for Components)		226-4406-03	1	1/2" Ring Terminal End to 1" Stripped End
4	332-2001	1	Lug, Solderless		226-4406-04	1	1/2" Ring Terminal End to 1/2" Ring Terminal End
5	319-1915	1	Panel – Top	20	508-1092	–	Edging – Bulk (Order By The Foot – 3 Feet Required)
6	319-1917	1	All Except 4 Pole Switches Mounted on the Right Side When Facing Control	21			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
	319-2463	1	4 Pole Switches Mounted on the Right Side When Facing Control		098-5854-06	1	Marked "L"
7	319-3284	1	Brace, Cover		098-5854-07	1	Marked "1"
8	319-3333	1	Brace, Cover		098-5854-08	1	Marked "2"
9	091-0002	1	Strip, Copper (Quantity Used As Required)		098-5854-09	1	Marked "3"
10	319-3183	1	Panel – Bottom		098-5854-10	1	Marked "0"
11			Cup	22	319-3329	1	Bracket, Mounting
	319-2431-27	1	1-7/8" x 3-1/32" Opening				The following 4 hardware items are used to fasten the load leads to the generator and neutral bar. Quantity used as required.
	319-2431-30	1	3-5/16" x 4-3/8" Opening	23	800-2116	1	Screw, Cap – Hex Head (M12 x 50mm)
	319-2431-31	1	2-1/2" x 4-9/16" Opening	24	860-2010	1	Nut, Hex (M12)
12	821-6002-03	53	Screw, Self-Locking – Hex Washer Head (M6 x 1.0 x 16mm)	25	850-2012	1	Washer, Lock – Spring (M12)
13	856-0010	1	Washer, Lock – EIT (3/8")	26	526-2140	1	Washer, Flat (M12)
14	526-2120	1	Washer, Flat (M10)	27	332-2744-07	1	Standoff, Insulator
15	821-2034	2	Screw, Self-Locking – Hex Washer Head (M6 x 1.0 x 20mm)	28	800-0048	2	Screw, Cap – Hex Head (3/8-16 x .75)
16	850-2010	1	Washer, Lock – Spring (M10)	29	850-0050	2	Washer, Lock (3/8)
17	800-2088	1	Screw, Cap – Hex Head (M10 x 1.5 x 35mm)	30	526-0029	1	Washer, Flat (3/8)

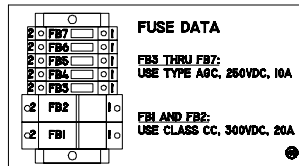
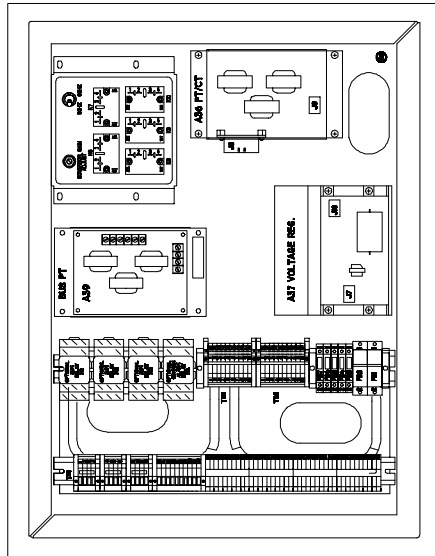
Circuit Breaker Box (With F200 – F205 Enclosure)



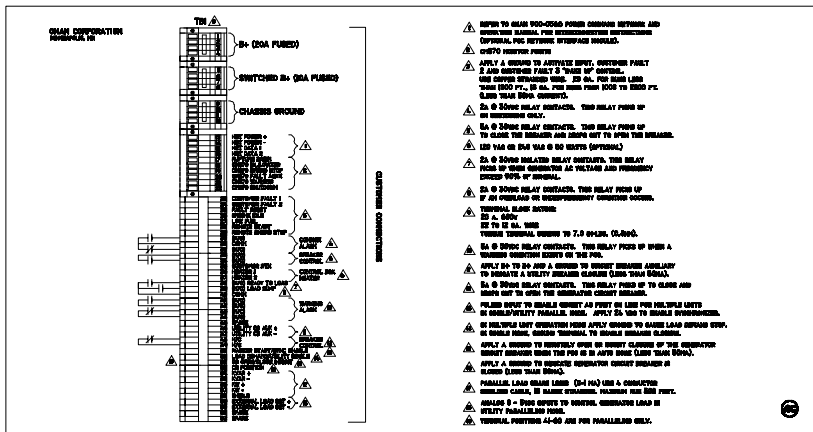
Circuit Breaker Box (With F200 – F205 Enclosure)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5106-02	1	Box, Circuit Breaker	21	526-0399-62	1	Washer, Flat (M10)
2	319-4983-02	2	Cover, Box	22	850-0114-55	1	Washer, Lock – Split (M10)
3	319-4955-02	1	Bracket, Circuit Breaker – Mounting	23	800-3017-39	1	Screw, Cap – Hex Head (M10 x 1.5 x 35)
4	319-4979-02	1	Bracket, Circuit Breaker	24	337-3538-03	1	Strap, Ground
5	319-5092-02	1	Bracket, Circuit Breaker	25	098-6537	1	Label, Ground
6	319-5093-02	1	Bracket, Circuit Breaker	26	319-5140-02	1	Cover, Circuit Breaker
7	821-6004-01	8	Screw, Hex Head (M10 x 1.5 x 20)	27	870-2054	4	Nut, Hex – Flange (M6)
8	870-0504	14	Nut, Captive – Floating	28	319-4962-02	1	Cup, Circuit Breaker CK – 84mm x 112mm Opening
9	821-6002-03	66	Screw, Hex Head (M6 x 1 x 16)		319-4964-02	1	NSF – 31mm x 77mm Opening
10	319-5112-02	1	Cover, Circuit Breaker		319-4965-02	1	NSJ – 64mm x 116mm Opening
11	870-2054	6	Nut, Locking – Flange (M6 x 1)		319-4967-02	1	CK and NSJ – 84mm x 112mm Opening
12	319-5113-02	1	Cover, Circuit Breaker 4CDE Generator		319-4968-02	1	CK and NSF – 84mm x 112mm Opening
	319-5115-02	1	4F Generator		319-4969-02	1	NSJ and NSF – 64mm x 116mm Opening
13	319-5114-02	1	Cover, Circuit Breaker 4CDE Generator	29	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers and disconnect switches) (Quantity Used As Required)
	319-5116-02	1	4F Generator	30	319-4980-02	1	Bracket, Circuit Breaker – Riser – NSF
14	319-5108-02	1	Cover, Circuit Breaker 4CDE Generator				
	319-5109-02	1	4F Generator				
15	518-0548-58	1	Clamp, Hose				
16	800-2114	4	Screw, Cap – Hex Head (M12 x 1.75 x 40)				
17	860-2010	4	Nut, Hex (M12 x 1.75)				
18	526-2140	8	Washer, Flat (M12)				
19	332-2001	1	Lug, Solderless				
20	856-0010	1	Washer, Lock – W/EIT (3/8)				

Control Label

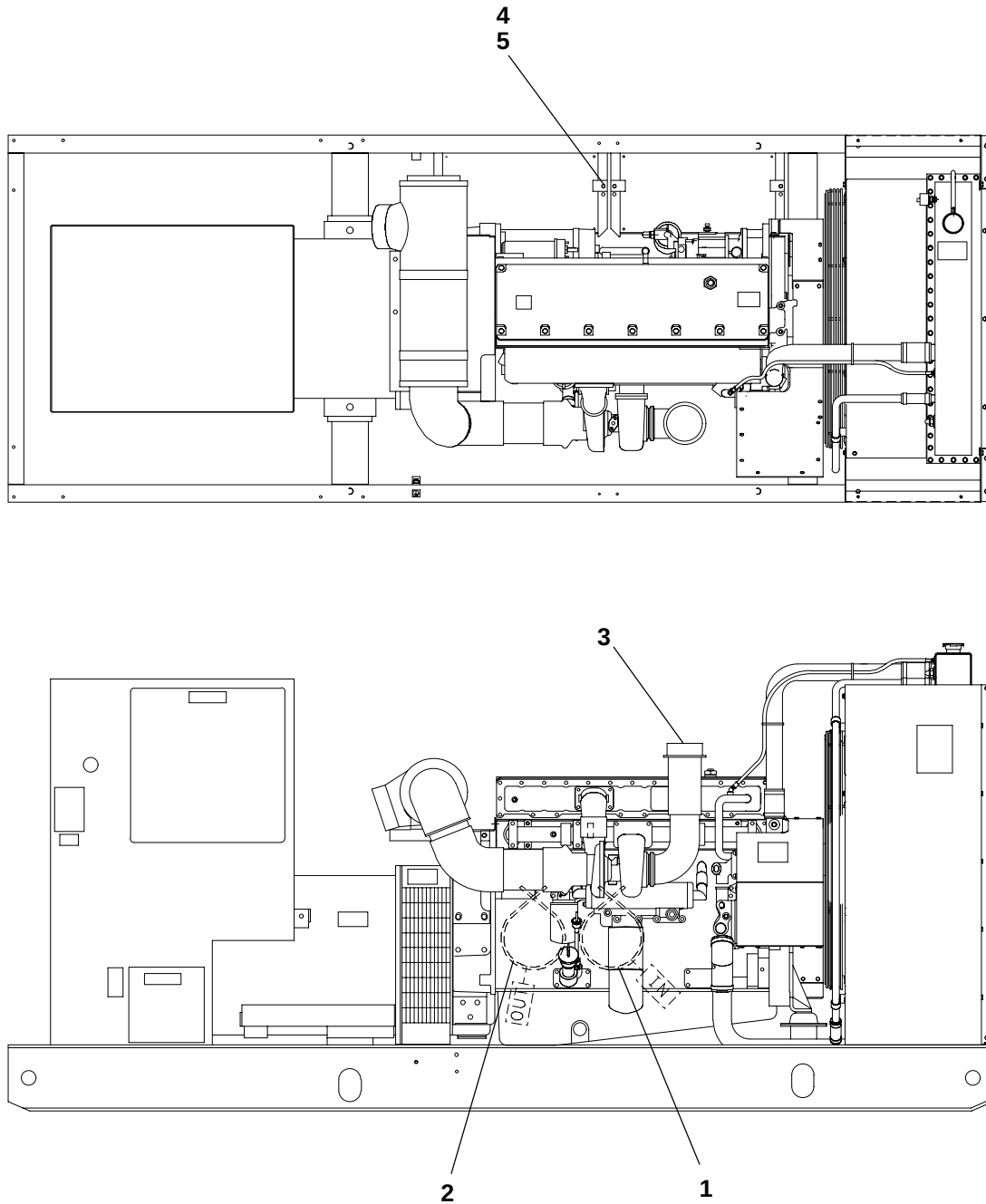


0098-8058



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-8058	1	Label, Control				

Miscellaneous



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0751	1	Line, Flexible – Fuel (1/2 Fuel In)
2	501-0752-02	1	Line, Flexible – Fuel (3/8 Fuel Out)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	517-0286-04	1	Plug, Cap
4	800-0048	4	Screw, Cap – Hex Head (3/8-16 x .75)
5	416-0850	4	Bracket, Battery

Accessories

These parts must be purchased through the Accessories Business Unit, see your Cummins/Onan Distributer. For other accessories such as batteries, fuel tanks and annunciators contact the Accessories Business Unit.

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Muffler – Industrial	4			Package, Pipe – Exhaust
	155-2340-05	1	5" Flange		155-2549	1	5" Silencer
	155-2340-01	1	6" Flange		155-2550	1	6" Silencer
2			Muffler – Residential		155-2551	1	8" Silencer
	155-2341-05	1	6" Flange	5	307-1056	1	Relay, Auxiliary – 3PDT
	155-2341-01	1	6" Flange				(24V)
3	155-2342-01	1	Muffler – Critical				
			6" Flange				

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