

Parts Catalog

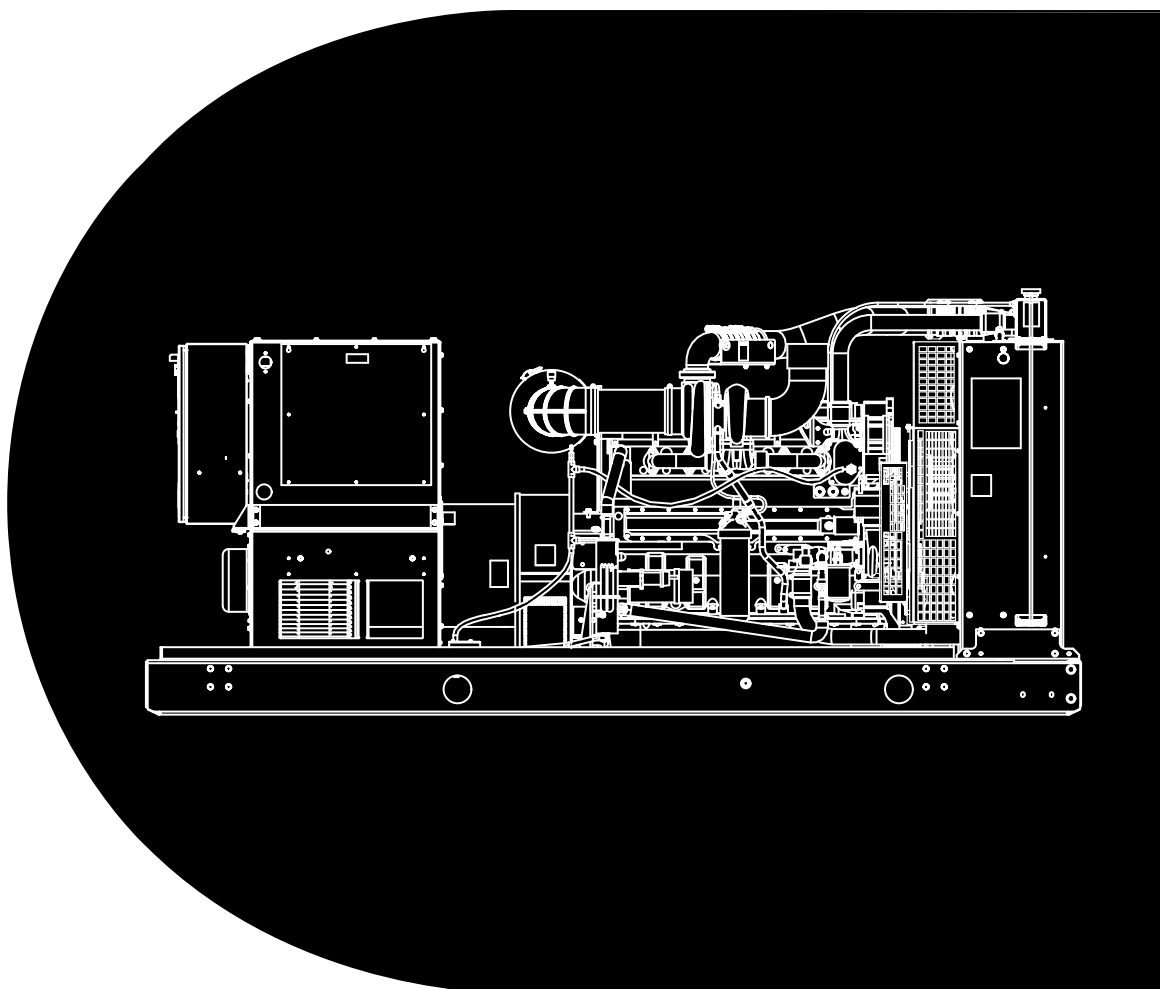
Models

DFEG (Spec A)

DFEH (Spec A)

DFEJ (Spec A)

DFEK (Spec A)



MODEL IDENTIFICATION

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

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

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

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

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



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



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



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

PRODUCT SAFETY PRECAUTIONS



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



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



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



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

Introduction

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

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

Replacement Engine

Cummins Power Generation Generator Model	Cummins Engine Model
DFEG, DFEH, DFEJ, DFEK (50 Hertz)	QSX15–G8
DFEG, DFEH, DFEJ, DFEK (60 Hertz)	QSX15–G9

Generator Set Data Table

Model and Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
310DFEG/*	310,000	#	50	12	3	24VDC
350DFEG/*	350,000	#	60	12	3	24VDC
352DFEH/*	352,000	#	50	12	3	24VDC
400DFEH/*	400,000	#	60	12	3	24VDC
400DFEJ/*	400,000	#	50	12	3	24VDC
450DFEJ/*	450,000	#	60	12	3	24VDC
440DFEK/*	440,000	#	50	12	3	24VDC
500DFEK/*	500,000	#	60	12	3	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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Abbreviations

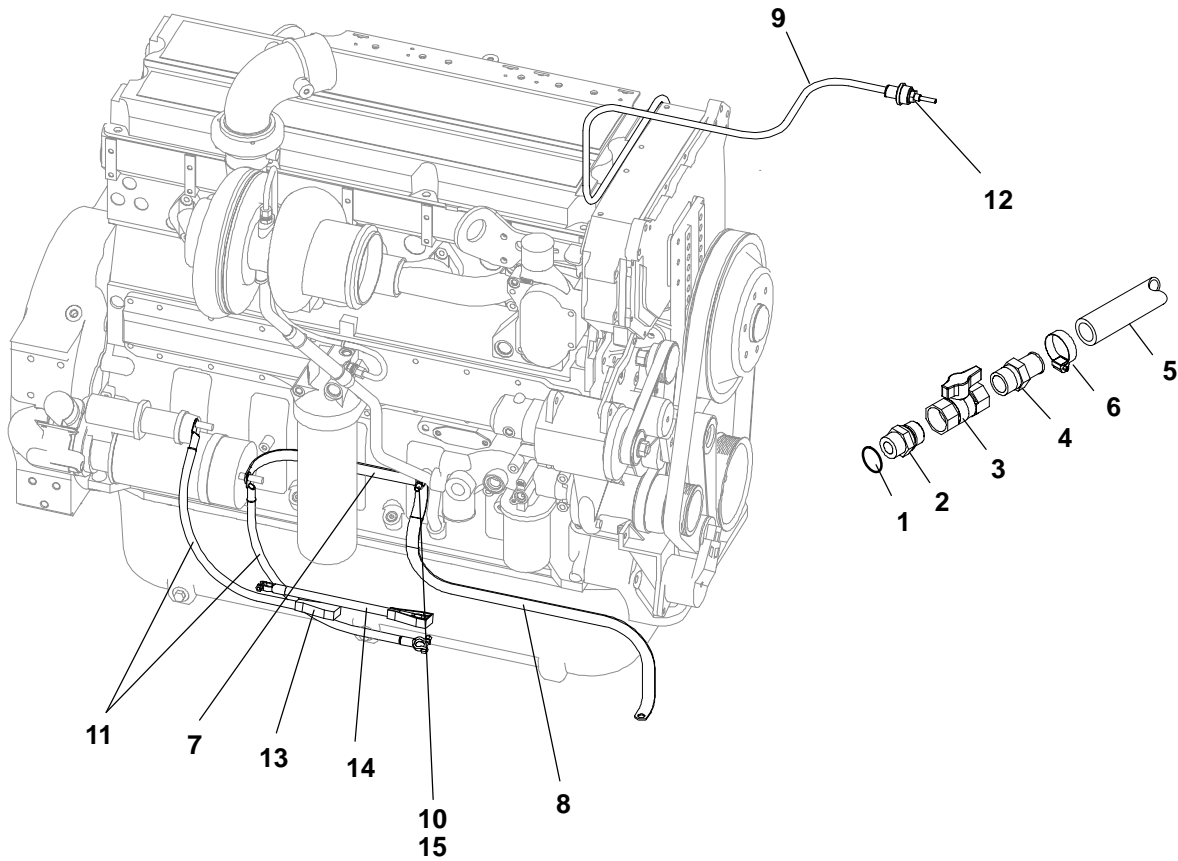
Some of the following abbreviations may be used throughout this Parts Catalog:

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				
	525-0306	-	Quart Can				
	525-0304	-	Gallon Can				

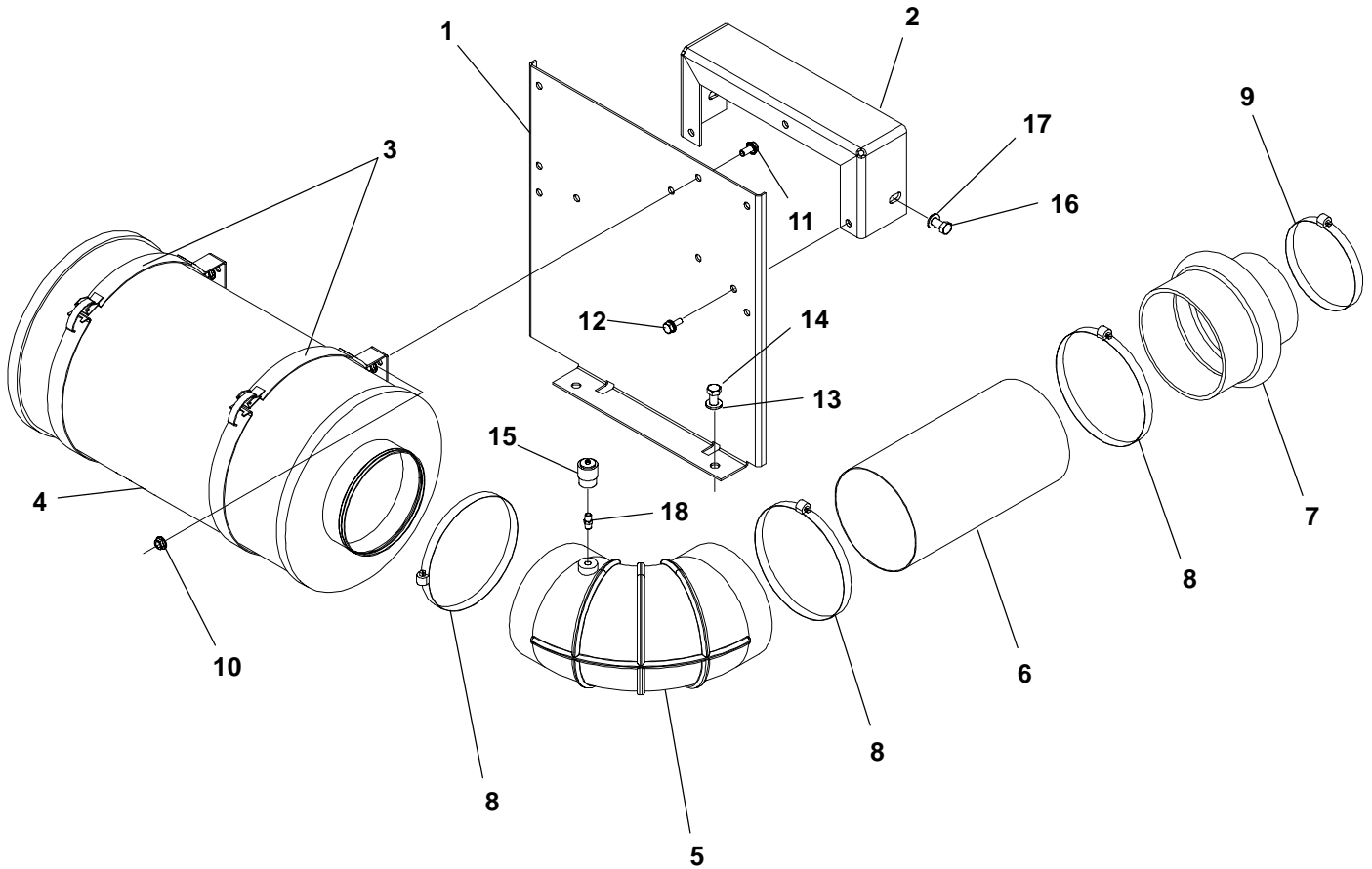
Engine Accessories



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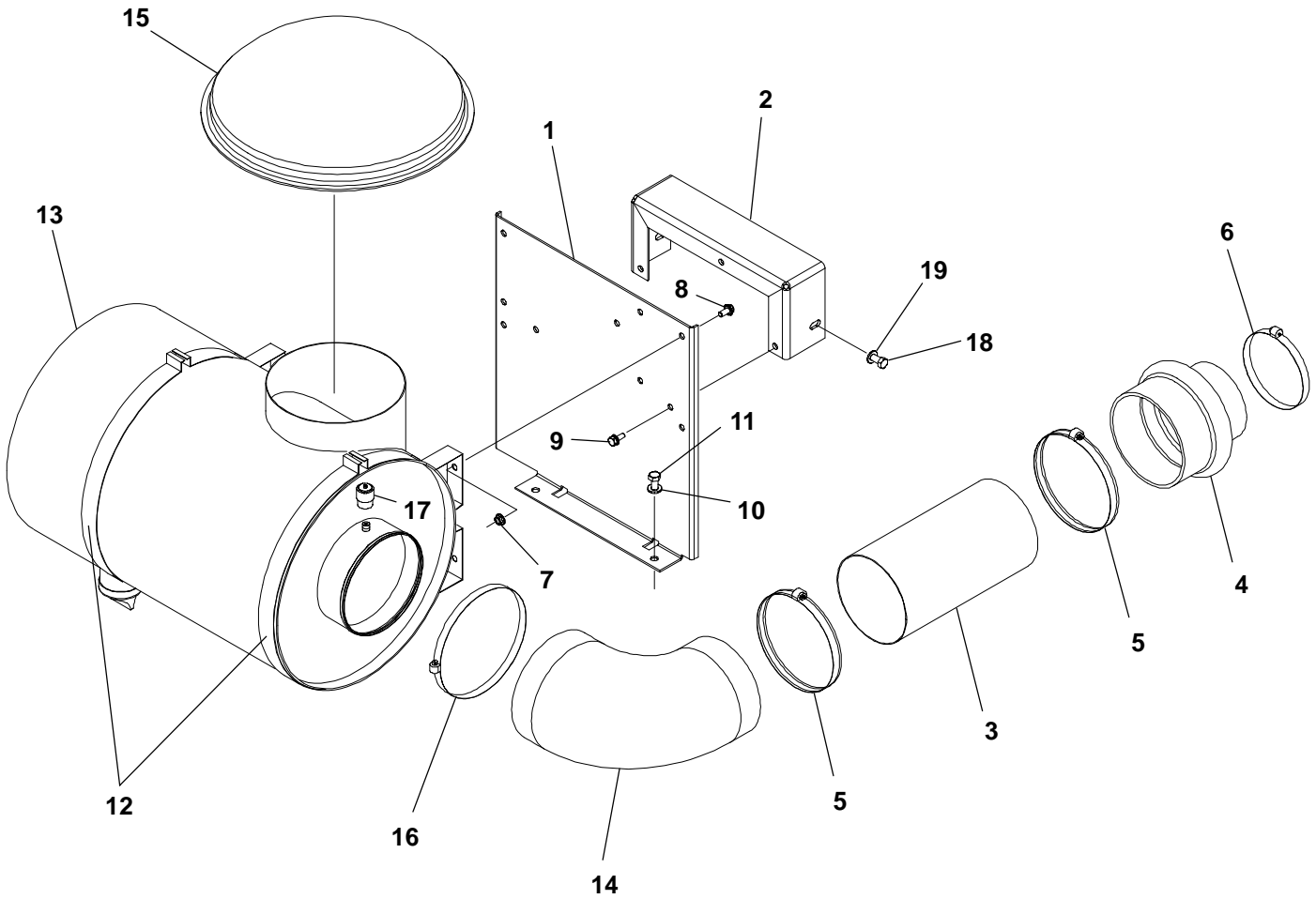
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	509-0353	1	Seal, O-Ring	8	337-0090-01	1	Strap, Electrical
2	502-1332-02	1	Adapter, Pipe	9	338-3938	1	Harness, Low Coolant Level
3	504-0171	1	Valve	10	870-2056	1	Nut, Hex - Flange Head - Self-Locking (M10 x 1.5)
4	502-0971	1	Connector, Hose	11	416-0960	2	Cable, Battery
5	503-2079	-	Hose, Heater - Bulk (Order by the Foot - 2 Feet Required)	12	193-0486	1	Sender, Low Coolant Level
6	503-0398	1	Clamp, Hose	13	416-1019	1	Boot, Battery - Red
7	337-0090	1	Strap, Electrical	14	416-0446	1	Cable, Jumper
				15	856-0010	1	Washer, Lock - W/EIT (3/8)

Air Cleaner Standard



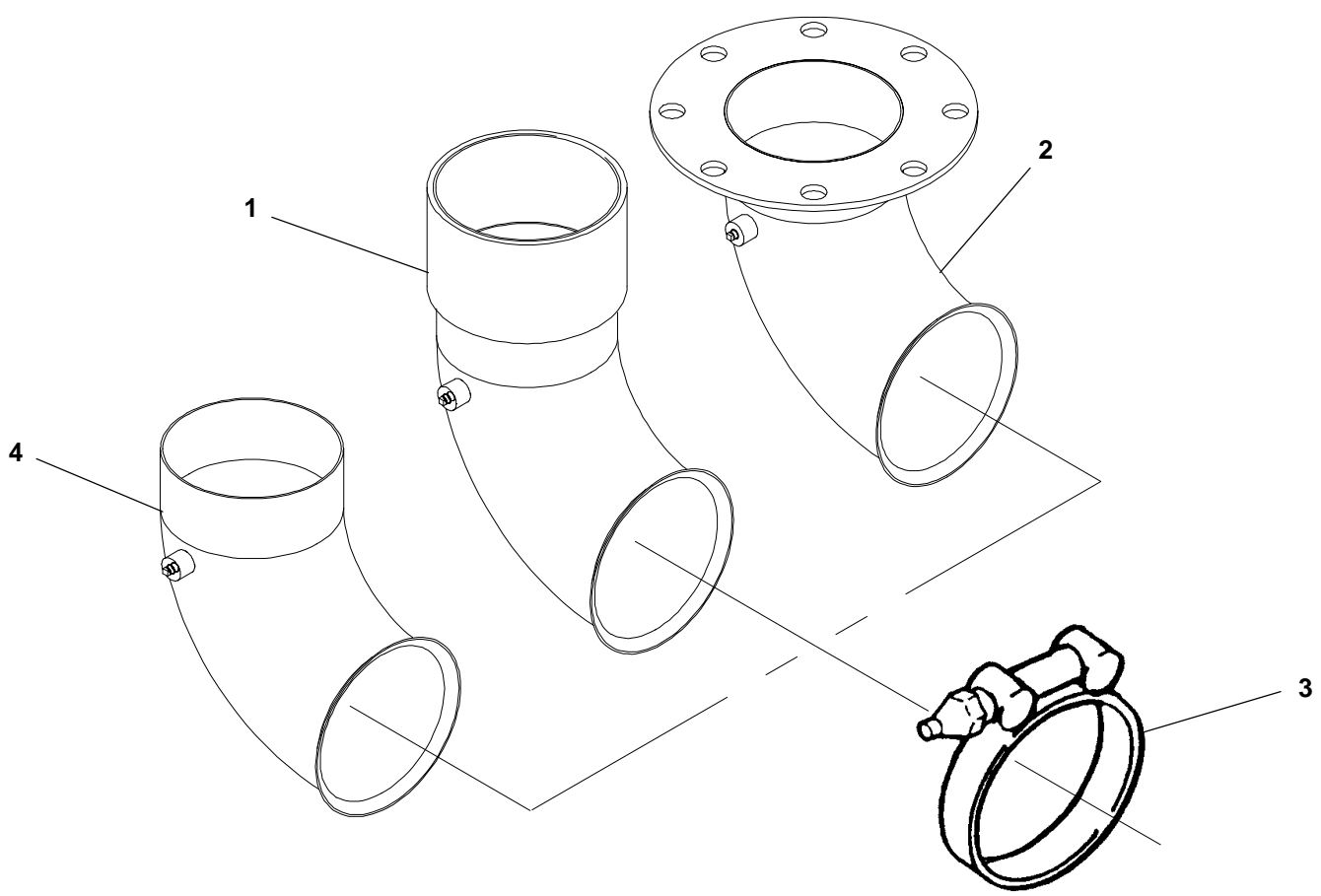
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3229-02	1	Bracket, Air Cleaner	12	821-6004-01	3	Screw, Hex Head (M10 x 1.5 x 20)
2	140-3226-02	1	Bracket, Air Cleaner	13	526-0399-64	2	Washer, Flat (1/2'')
3	140-2502	2	Clamp, Air Cleaner	14	800-0310-64	2	Screw, Cap - Hex Head - Grade 5 (1/2-13 x 1.0)
4	140-3163	1	Cleaner, Air	15	140-1548	1	Indicator, Service
5	503-0970-01	1	Elbow - 90° (7 x 7)	16	800-2111	1	Screw, Cap - Hex Head (M12 x 1.75 x 25)
6	140-3227-02	1	Tube, Air Cleaner	17	526-2140	1	Washer, Flat (M12)
7	503-1675	1	Hose, Reducer	18	140-1260	1	Fitting, Safety Filter
8	503-1870-14	3	Clamp, Hose				
9	503-1870-10	1	Clamp, Hose				
10	870-2056	4	Nut, Hex - Flange Head (M10)				
11	821-2060	4	Screw, Self-Locking - Hex Washer Head (M10 x 1.5 x 20)				

Air Cleaner Heavy Duty



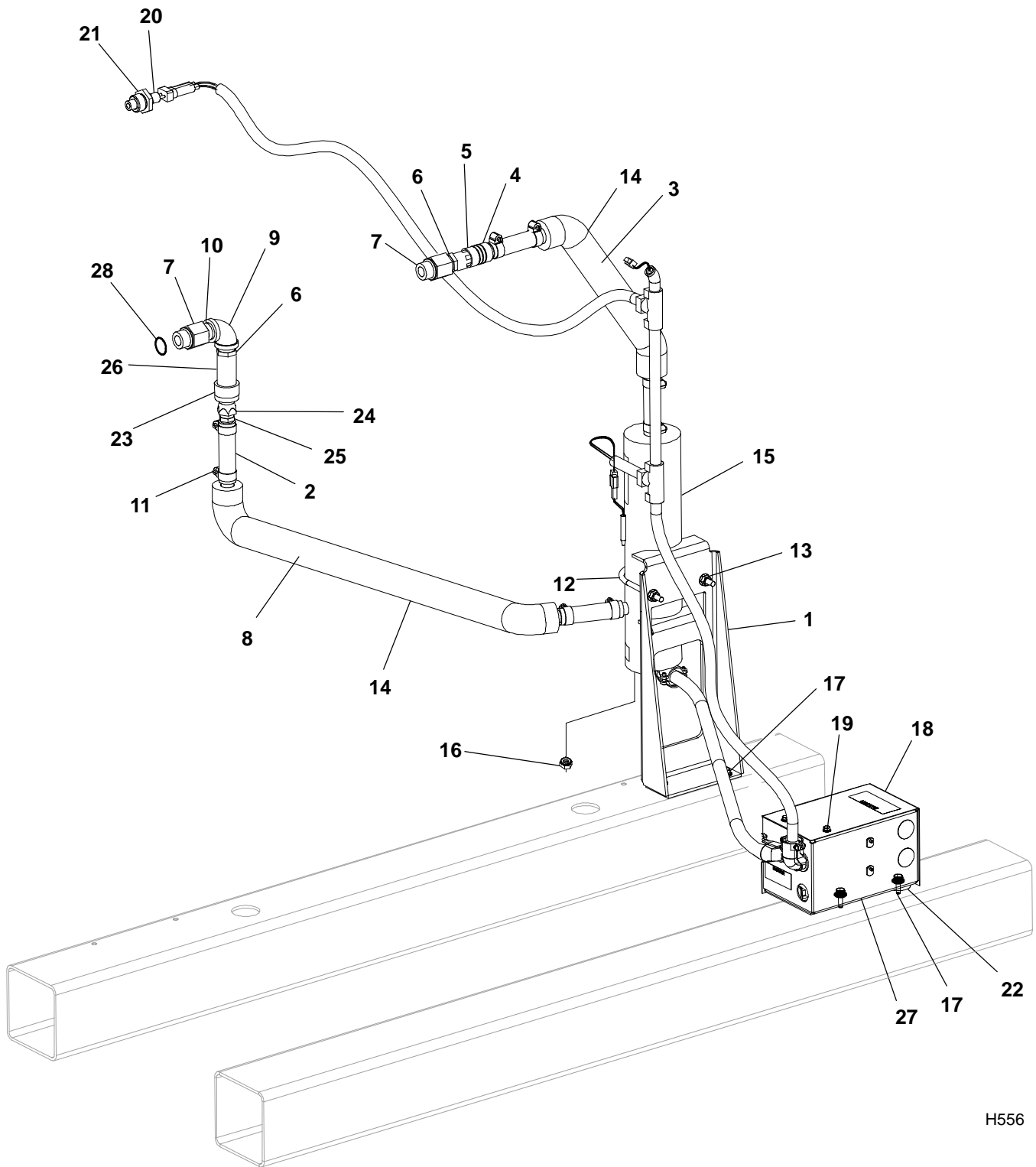
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3229-02	1	Bracket, Air Cleaner	12	140-2099	2	Band, Mounting
2	140-3226-02	1	Bracket, Air Cleaner	13	140-3230	1	Cleaner, Air
3	140-3227-02	1	Tube, Air Cleaner				Primary Element
4	503-1675	1	Hose, Reducer		70781N	1	Nelson
5	503-1870-14	2	Clamp, Hose		AF25544	1	Fleetguard
6	503-1870-10	1	Clamp, Hose				Safety Element
7	870-2056	4	Nut, Hex - Flange Head (M10)		70782N	1	Nelson
8	821-2060	4	Screw, Self-Locking - Hex Washer Head (M10 x 1.5 x 20)		AF25545	1	Fleetguard
9	821-6004-01	3	Screw, Hex Head (M10 x 1.5 x 20)	14	503-1485	1	Elbow, Reducing - 90° (8" x 7")
10	526-0399-64	2	Washer, Flat (1/2")	15	140-2098	1	Hood, Air Inlet
11	800-0310-64	2	Screw, Cap - Hex Head - Grade 5 (1/2-13 x 1.0)	16	503-1871-04	1	Clamp, Hose
				17	140-1548	1	Indicator, Service
				18	800-2111	1	Screw, Cap - Hex Head (M12 x 1.75 x 25)
				19	526-2140	1	Washer, Flat (M12)

Exhaust Elbow



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-3335-02	1	Elbow, Exhaust (NPT)	3	503-1575-03	1	Clamp, V-Band
2	155-3369-02	1	Elbow, Exhaust (Flange)	4	155-3333-02	1	Elbow, Exhaust (Slip-On)

Coolant Heater

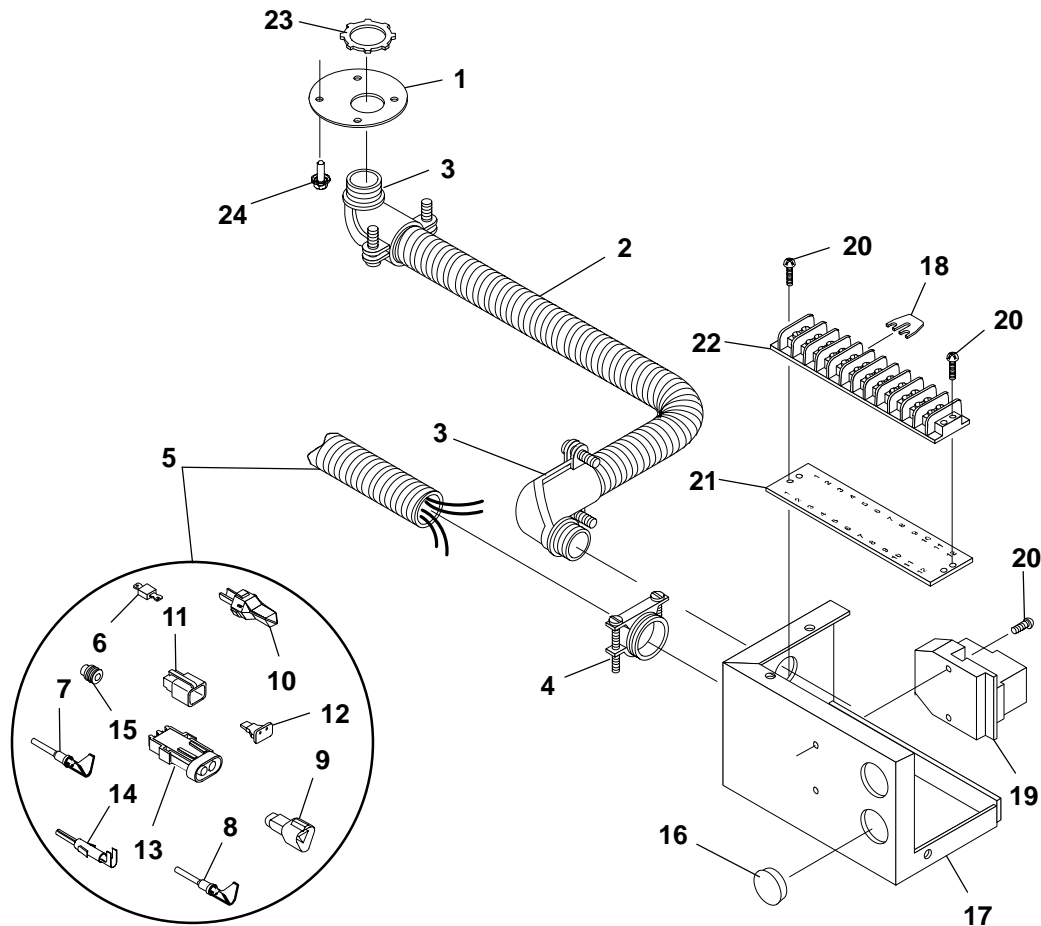


H556

Coolant Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5174-02	1	Bracket, Coolant Heater	16	870-0131	3	Nut, Hex – W/ET (#10-32)
2	503-1634-01	4	Hose, Silicone Rubber	17	821-6003-02	4	Screw, Hex Head (M8 x 1.25 x 20)
3	130-5173-02	1	Tube, Coolant Heater	18	319-2815	1	Cover, Terminal Box
4	502-1257	1	Connector, Hose Barb	19	821-5002-03	4	Screw, Hex Head (1/4-20 x .50)
5	502-1259	1	Coupler, Coolant Heater	20	309-0649	1	Thermostat
6	505-0021	2	Bushing, Reducer (3/4 x 1.38)	21	502-1321	1	Adapter, Coolant Heater
7	502-1333-02	2	Adapter (M27 to 3/4)	22	526-0128	2	Washer, Flat (15/32")
8	130-5172-02	1	Tube, Coolant Heater	23	502-1260	1	Coupler
9	505-0132	1	Elbow, Pipe	24	502-1261	1	Nipple, Coolant Heater
10	505-0012	1	Nipple, Pipe (3/4 x 1.38)	25	502-0827	1	Barb, Hose
11	503-2157-01	8	Clamp, Hose	26	505-0100	1	Nipple, Pipe (1/2 x 1.13")
12	155-3021	1	Clamp, Coolant Heater	27	–	1	Control Assembly, Coolant Heater (See Separate Page For Components)
13	870-0550-09	2	Nut, Hex – Flange Head (3/8-16)	28	509-0353	2	Seal, O-Ring
14	128-0108	2	Insulation, Hose				
15			Heater, Coolant				
	333-0634-01	1	4990 Watt				
	333-0634-02	1	6420 Watt				

Coolant Heater Control

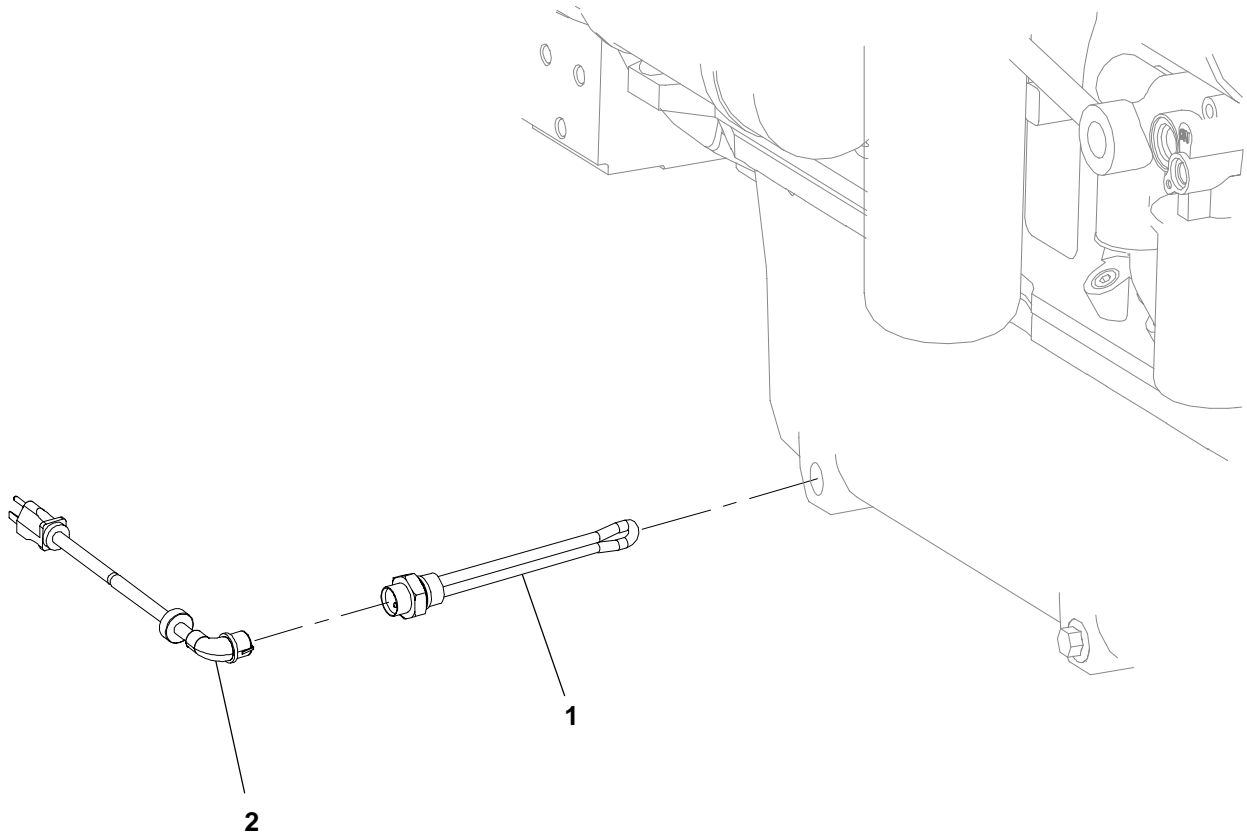


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4552	1	Cover, Coolant Heater
2	338-3923-03	1	Harness, Wiring – AC (Includes Conduit Connectors)
3	331-0554	2	Connector, Conduit – 90° (3/4")
4	331-0042	1	Connector, Wiring – DC – Romex (3/4")
5	338-3915	1	Harness, Wiring – DC (Includes Parts Marked *)
6	357-0030	1	* Rectifier (6 Amp) (Located At K11 End Of Harness) (CR1)
7	323-1491	3	* Pin, Contact
8	323-1492	2	* Socket, Contact
9	323-1494	1	* Connector, Receptacle (3 Pin) (Inline F)
10	323-1502	1	* Wedge, Receptacle (Used With Inline F)
11	323-1504	1	* Connector, Plug (2 Pin) (Station 18)
12	323-1500	1	* Wedge, Plug (Used With Station 18)
13	323-1652	1	* Connector, Plug – 2-Way (2 Pin) (Station 17)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
14	323-1718	2	* Pin, Contact (Used In Station 17)
15	323-1445	2	* Seal, Cable (Used With Station 17)
16	517-0138-02	3	Plug, Hole (Fits 1-1/8" Hole)
17	319-2814	1	Box, Terminal
18	332-3440	1	Jumper, Terminal
19	307-2859	1	Relay, Power - 24VDC (K11)
20	815-0447	4	Screw, Machine - Round Head - Cross Recessed W/IT - Thread Forming (#8-32 x 3/4")
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	815-0539	3	Screw, Machine - Round Head - Cross Recessed - W/IT (#8-32 x .62)

* – Parts Included In 338–3915 DC Engine Heater Wiring Harness

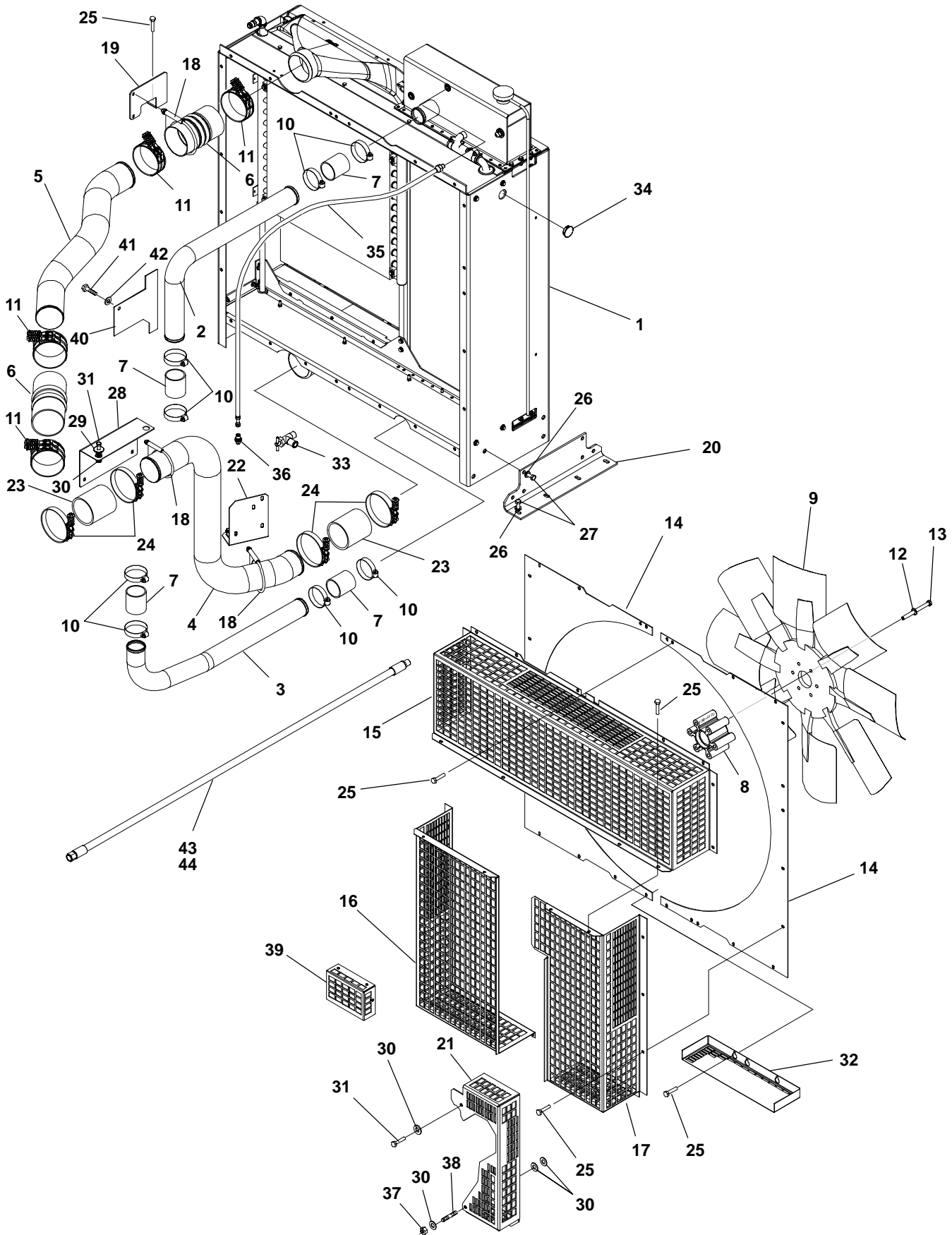
Oil Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0650	1	Heater, Elbow

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	335-0186-01	1	Cable, Oil Heater

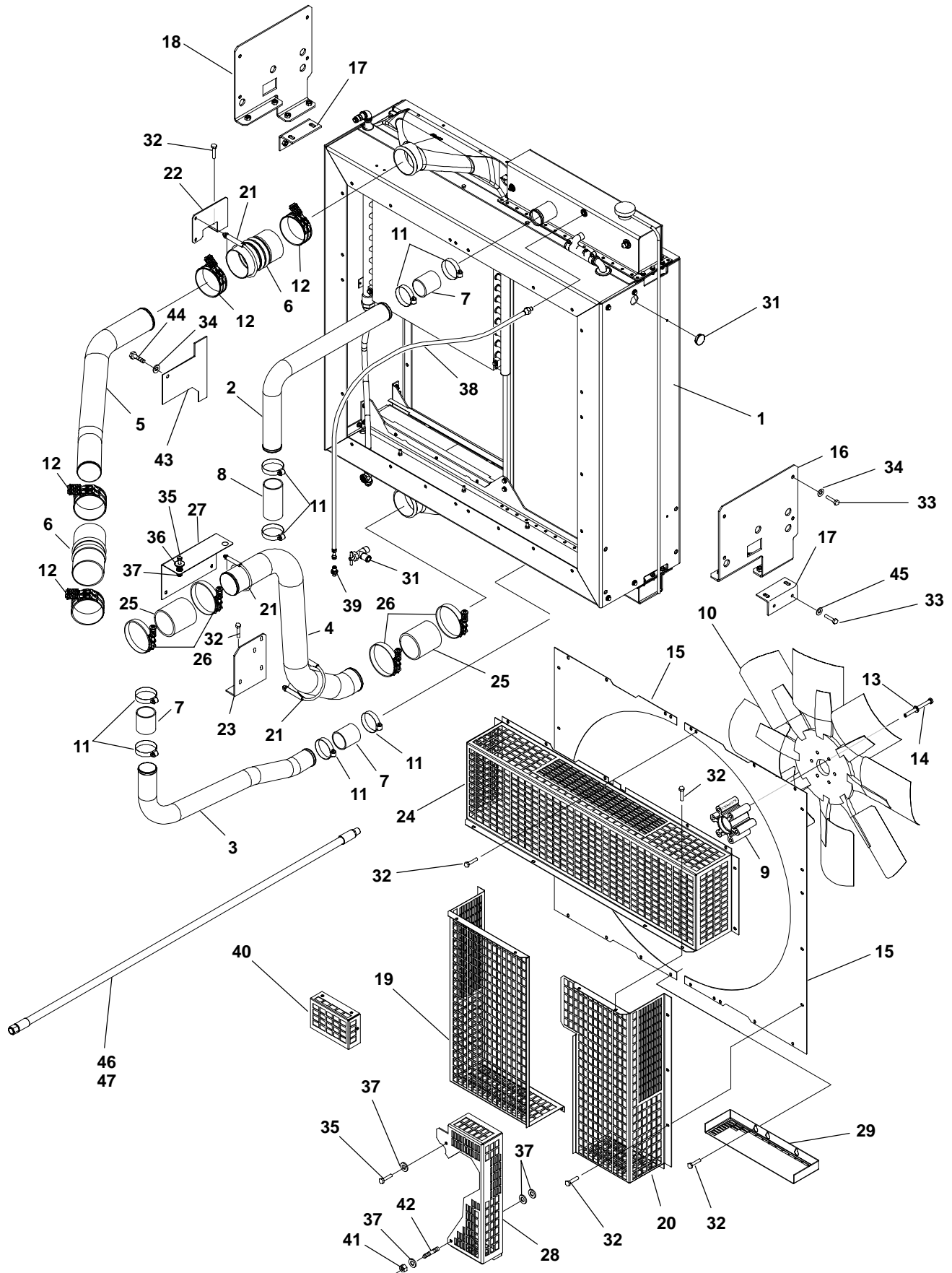
Radiator 40°C Ambient



Radiator **40°C Ambient**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5178	1	Radiator (Includes Radiator Cap, Overflow Hose, Sight Gauge Service Repair Kit, Charge Air Cooler and Fuel Cooler)	19	130-5248-02	1	Bracket, Air Tube
	130-3588-01	1	Cap, Radiator – 10 PSI	20	130-5233-02	2	Bracket, Radiator
	503-1418	–	Overflow Hose – Bulk (1/4") (Order By The Foot – 6 Feet Required)	21	191-2279-02	1	Guard, Alternator
	130-4362	1	Sight Gauge Service Parts (Includes Glass Bulb and "O" Ring) (Not Illustrated)	22	130-5234-02	1	Bracket, Air Tube
2	130-5179-02	1	Tube, Radiator	23	503-2164	2	Hose, Coolant
3	130-5180-02	1	Tube, Radiator	24	503-2155-02	4	Clamp, Hose
4	130-5181-01	1	Tube, Air Intake	25	821-6003-02	35	Screw, Hex Head (M8 x 1.25 x 20)
5	130-5182-01	1	Tube, Air Discharge	26	526-0399-64	9	Washer, Flat (M12)
6	503-2154	2	Hose, Hump	27	800-3017-54	14	Screw, Cap – Hex Head (M12 x 1.75 x 30)
7	503-1708	4	Hose, Radiator	28	130-5209-02	2	Bracket, Air Tube
8	130-5175-01	1	Spacer, Fan	29	526-0014	2	Washer, Flat (7/16)
9	130-5466	1	Fan, Engine	30	526-0174	10	Washer, Flat (.406)
10	503-1872-04	8	Clamp, Hose	31	800-3017-37	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
11	503-2155-01	7	Clamp, Hose	32	130-5264-02	1	Guard, Fan
12	526-0219	6	Washer, Flat (1/2)	33	504-0176	1	Valve, Oil Drain
13	800-0109	6	Screw, Cap – Hex Head (1/2-13 x 5.50)	34	517-0350	2	Plug, Hole
14	130-5187-04	2	Panel, Fan Shroud	35	501-0687-02	1	Line, Engine Vent
15	130-5249-02	1	Guard, Fan – Top	36	502-1330	1	Adapter – 37°
16	130-5250-02	1	Guard, Fan – Right Side	37	860-2009	1	Nut, Hex (M10 x 1.5)
17	130-5251-02	1	Guard, Fan – Left Side	38	520-1025-01	1	Stud
18	155-3372	4	Clamp, Muffler	39	130-5278-02	1	Guard, Belt
				40	130-5388-02	1	Guard, Pulley
				41	800-3017-52	1	Screw, Cap – Hex Head (M12 x 1.75 x 20)
				42	526-0393	6	Washer, Flat
				43	501-0689	1	Line, Flexible Fuel (Stub Up To Engine)
				44	501-0689-03	1	Line, Flexible Fuel (Fuel Cooler To Stub Up)

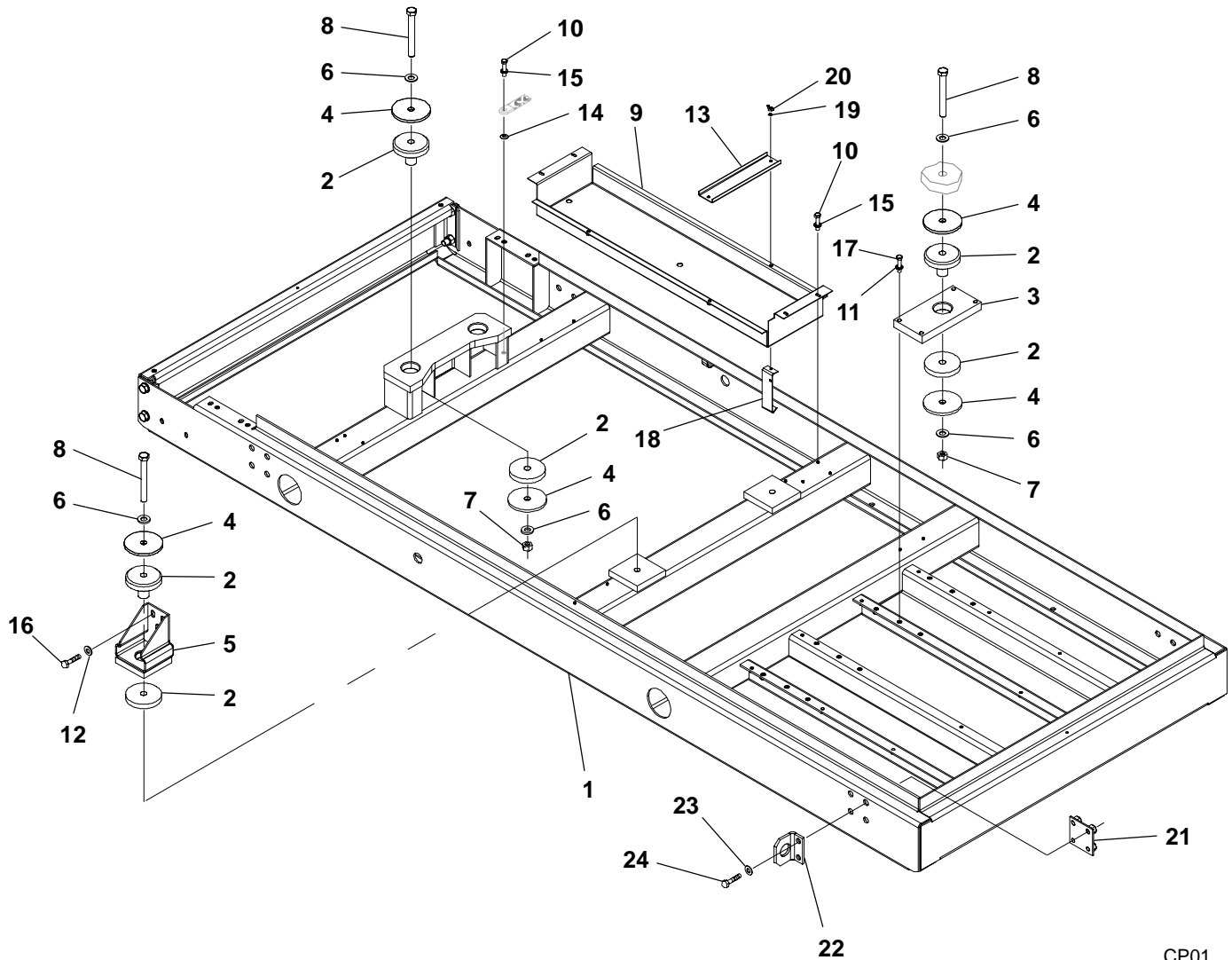
Radiator **50°C Ambient**



Radiator 50°C Ambient

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5160	1	Radiator (Includes Radiator Cap, Overflow Hose, Sight Gauge Service Repair Kit, Fuel Cooler and Charge Air Cooler)	21	155-3372	4	Clamp, Muffler
	130-3588-01	1	Cap, Radiator – 10 PSI	22	130-5248-02	1	Bracket, Air Tube
	503-1418	–	Overflow Hose – Bulk (1/4") (Order By The Foot – 6 Feet Required)	23	130-5234-02	1	Bracket, Air Tube
	130-4362	1	Sight Gauge Service Parts (Includes Glass Bulb and "O" Ring) (Not Illustrated)	24	130-5249-02	1	Guard, Fan – Top
2	130-5179-02	1	Tube, Radiator	25	503-2164	2	Hose, Coolant
3	130-5157-02	1	Tube, Radiator	26	503-2155-02	4	Clamp, Hose
4	130-5159-01	1	Tube, Air Intake	27	130-5209-02	2	Bracket, Air Tube
5	130-5158-01	1	Tube, Air Discharge	28	191-2279-02	1	Guard, Alternator
6	503-2154	2	Hose, Hump	29	130-5264-02	1	Guard, Fan
7	503-1708	3	Hose, Radiator	30	517-0350	2	Plug, Hole
8	503-1708-01	1	Hose, Radiator	31	504-0176	1	Valve, Oil Drain
9	130-5175	1	Spacer, Fan	32	821-6003-02	35	Screw, Hex Head (M8 x 1.25 x 20)
10	130-5183	1	Fan, Engine	33	800-3017-54	20	Screw, Cap – Hex Head (M12 x 1.75 x 30)
11	503-1872-04	8	Clamp, Hose	34	526-0399-64	13	Washer, Flat (M12)
12	503-2155-01	7	Clamp, Hose	35	800-3017-37	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
13	526-0219	6	Washer, Flat (1/2)	36	526-0014	2	Washer, Flat (7/16)
14	800-0107	6	Screw, Cap – Hex Head (1/2-13 x 6.00)	37	526-0174	10	Washer, Flat (.406)
15	130-5187-02	2	Panel, Fan Shroud	38	501-0687-02	1	Line, Engine Vent
16	130-5245-02	1	Bracket, Radiator – Left Side	39	502-1330	1	Adapter – 37°
17	130-5246-02	2	Bracket, Radiator	40	130-5278-02	1	Guard, Belt
18	130-5247-02	1	Bracket, Radiator – Right Side	41	860-2009	1	Nut, Hex (M10 x 1.5)
19	130-5250-02	1	Guard, Fan – Right Side	42	520-1025-01	1	Stud
20	130-5251-02	1	Guard, Fan – Left Side	43	130-5388-02	1	Guard, Pulley
				44	800-3017-52	1	Screw, Cap – Hex Head (M12 x 1.75 x 20)
				45	526-0393	8	Washer, Flat
				46	501-0689	1	Line, Flexible Fuel (Stub Up To Engine)
				47	501-0689-03	1	Line, Flexible Fuel (Fuel Cooler To Stub Up)

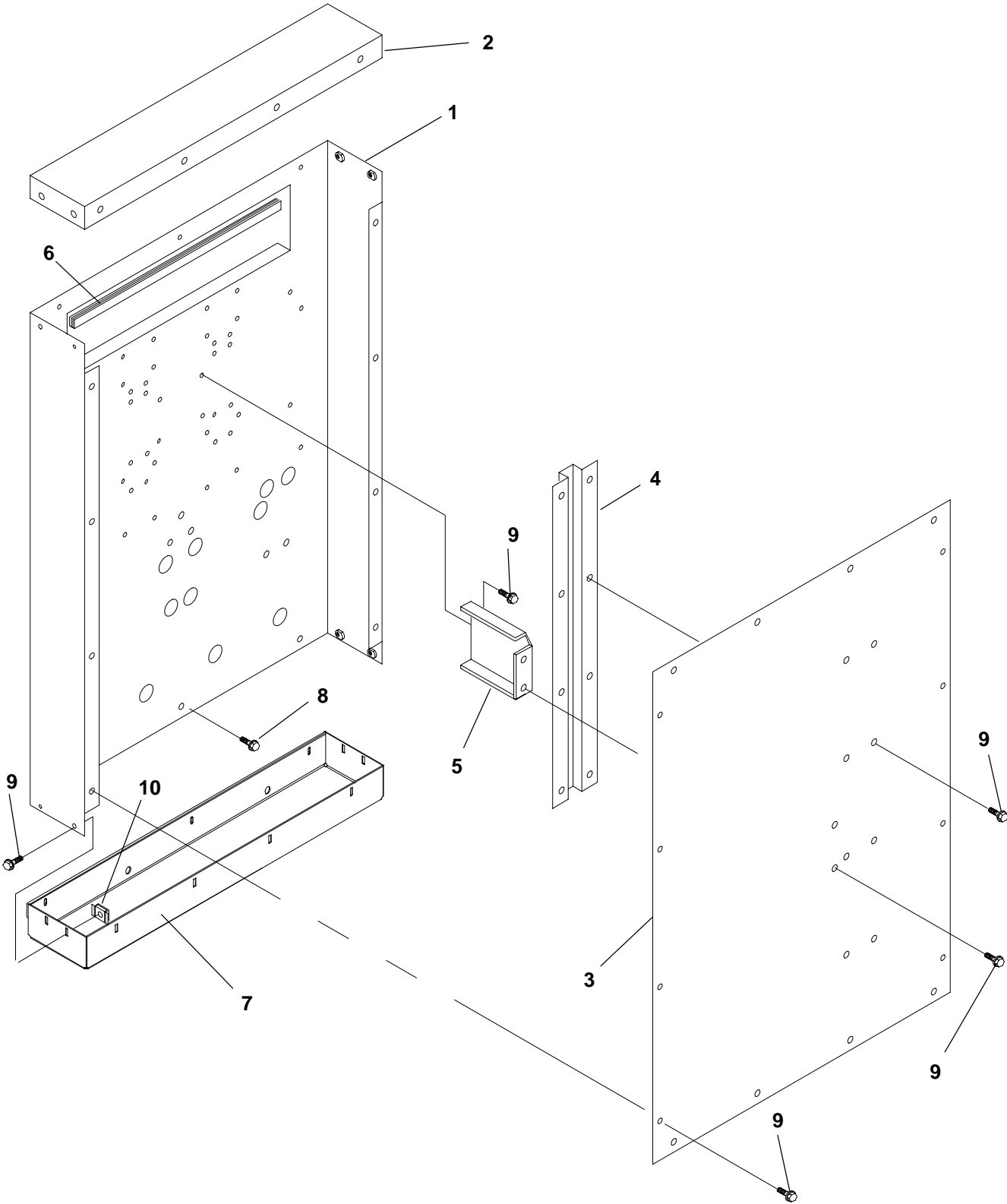
Skid



CP01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4378-02	1	Skid	14	856-0008	1	Washer - W/EIT (5/16)
2	402-0753	6	Isolator, Vibration	15	526-2106	4	Washer, Flat (M8)
3	403-4390-02	2	Pad, Generator Mounting	16	800-0132	6	Screw, Cap - Hex Head - Grade 8 (5/8-11 x 1.5)
4	403-4448	10	Washer, Isolator	17	800-2543-08	8	Screw, Cap - Hex Head (M12 x 1.75 x 55)
5	403-4440-02	2	Bracket, Engine Mount	18	416-1057-02	4	Bracket, Battery Hold-Down
6	526-0238-01	10	Washer, Flat (3/4)	19	740-1004	4	Washer, Flat (M6)
7	860-2023-01	4	Nut, Hex (M20 x 2.5)	20	865-0030	4	Nut, Wing (M6)
8	800-3047-01	6	Screw, Cap - Hex Head (M20 x 170)	21	403-4468-02	4	Plate, Nut
9	403-4392-02	1	Tray, Battery	22	403-4436-02	8	Bracket, Lift
10	821-6003-02	5	Screw, Hex Head (M8 x 1.25 x 20)	23	526-0399-70	16	Washer, Flat (M20)
11	526-0399-64	8	Washer, Flat (M12)	24	800-3017-90	16	Screw, Cap - Hex Head (M20 x 2.5 x 55)
12	526-0399-45	6	Washer, Flat (5/8)				
13	416-1056-02	2	Hold-Down, Battery				

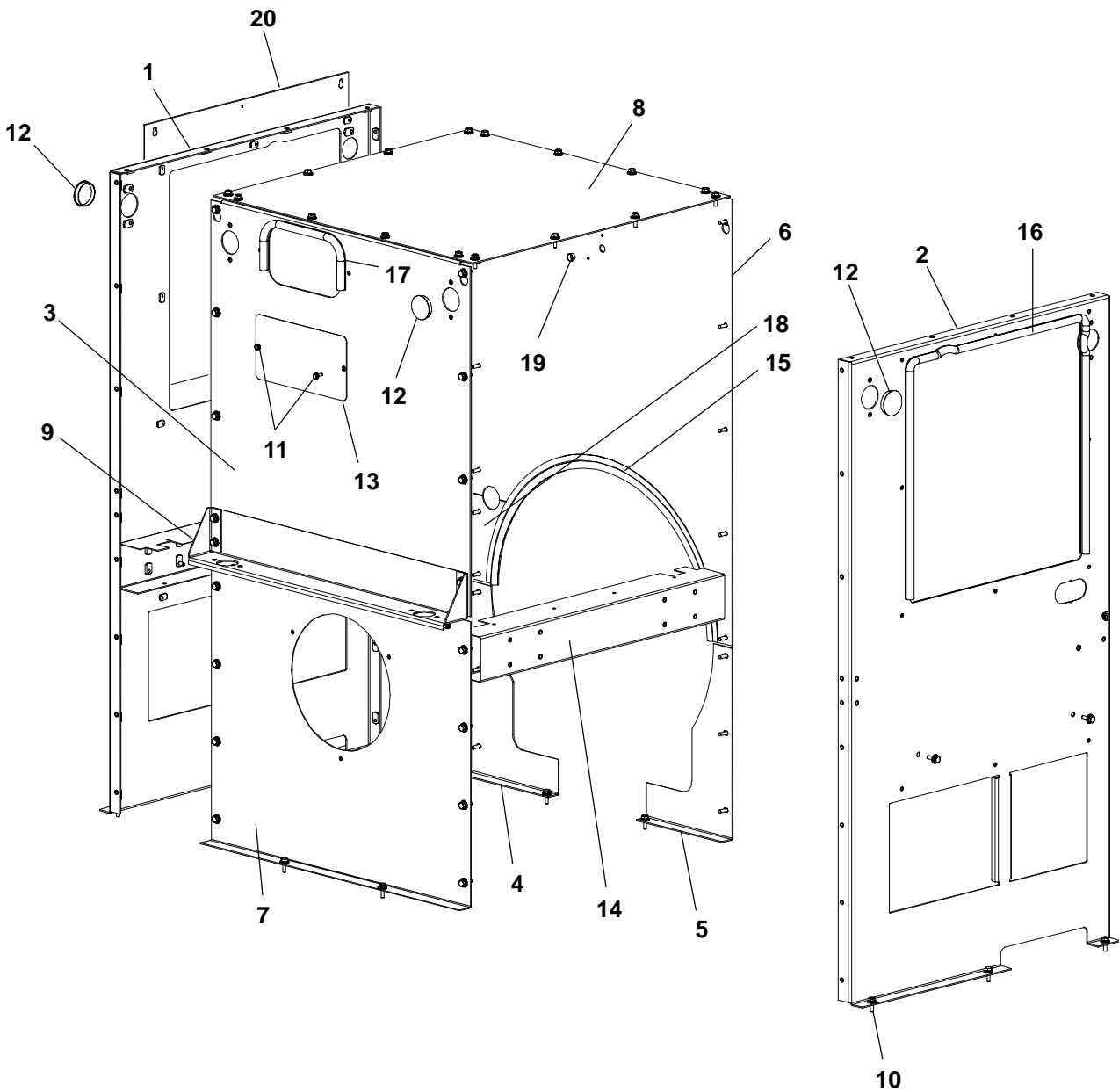
Entrance Box



Entrance Box

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3169	1	Box, Entrance	7	319-3183	1	Cover, Entrance Box
2	319-1915	1	Cover, Entrance Box	8	821-2035	2	Screw, Self-Locking – Hex Washer Head (M6 x 1.0 x 25)
3	319-1916	1	Cover, Entrance Box				
4	319-3284	1	Brace, Access Door	9	821-6002-03	44	Screw, Hex Head (M6 x 1.0 x 16)
5	319-3251	1	Brace, Cover				
6	508-1092	–	Edging – Bulk (Order by the Foot – 2 Feet Required)	10	870-0504	16	Nut, Retaining (M6)

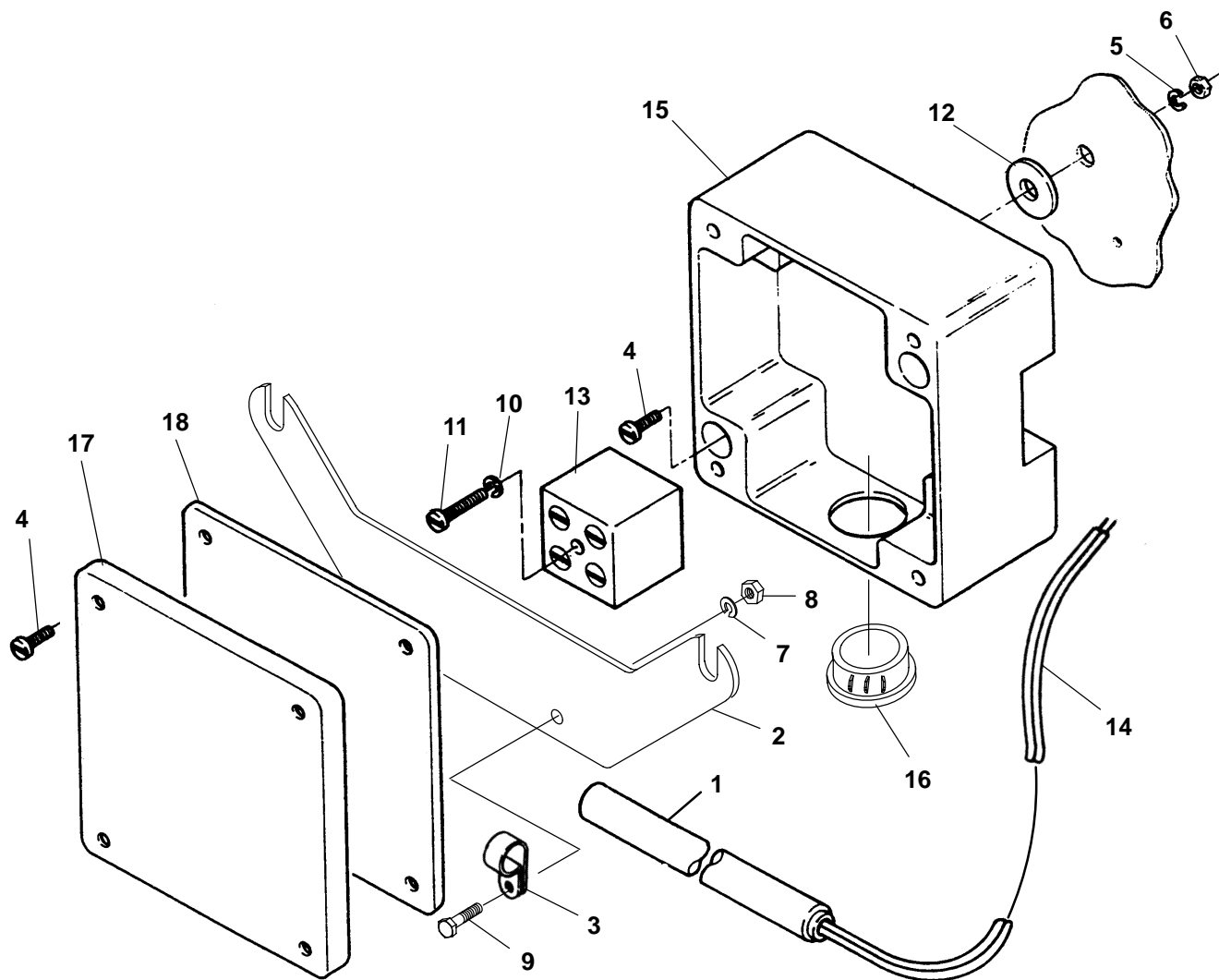
Control Housing



Control Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4191-02	1	Panel, Control Housing – Right Side	12			Plug, Hole
2	319-4190-02	1	Panel, Control Housing – Left Side		517-0138-08	2	Rear Mounted Control
3	319-4365-02	1	Panel, Control Housing – Rear		517-0138-08	3	Right or Left Mounted Control
4	319-3988-02	1	Panel, Control Housing – Front	13	319-4363-02	1	Panel, Filler (Right or Left Mounted Control)
5	319-3981-02	1	Panel, Control Housing – Front	14	319-4197-02	2	Shield, Safety
6	319-3955-02	1	Panel, Control Housing – Front	15	508-1144-02	1	Edging, Seal
7	319-4194-02	1	Panel, Control Housing – Lower	16	508-1146-01	1	Edging, Seal (Right or Left Mounted Control)
8	319-4364-02	1	Panel, Control Housing – Top	17	508-1146-02	1	Edging, Seal (Rear Mounted Control)
9	319-4196-02	1	Bracket, Control	18	319-4130-02	1	Panel, Control Housing – Front
10			Screw, Hex Head (M8 x 1.25 x 20)	19	517-0135	1	Plug, Hole
	821-6003-02	69	Rear Mounted Control	20			Cover, Control
	821-6003-02	73	Right or Left Mounted Control		319-3989-02	1	Sets With Side Mount Control or a Circuit Breaker
11	821-6002-03	2	Screw, Hex Head (M6 x 1.00 x 16) (Right or Left Mounted Control)		319-3989-03	2	Sets With Two Circuit Breakers or Side Mount Control and a Circuit Breaker

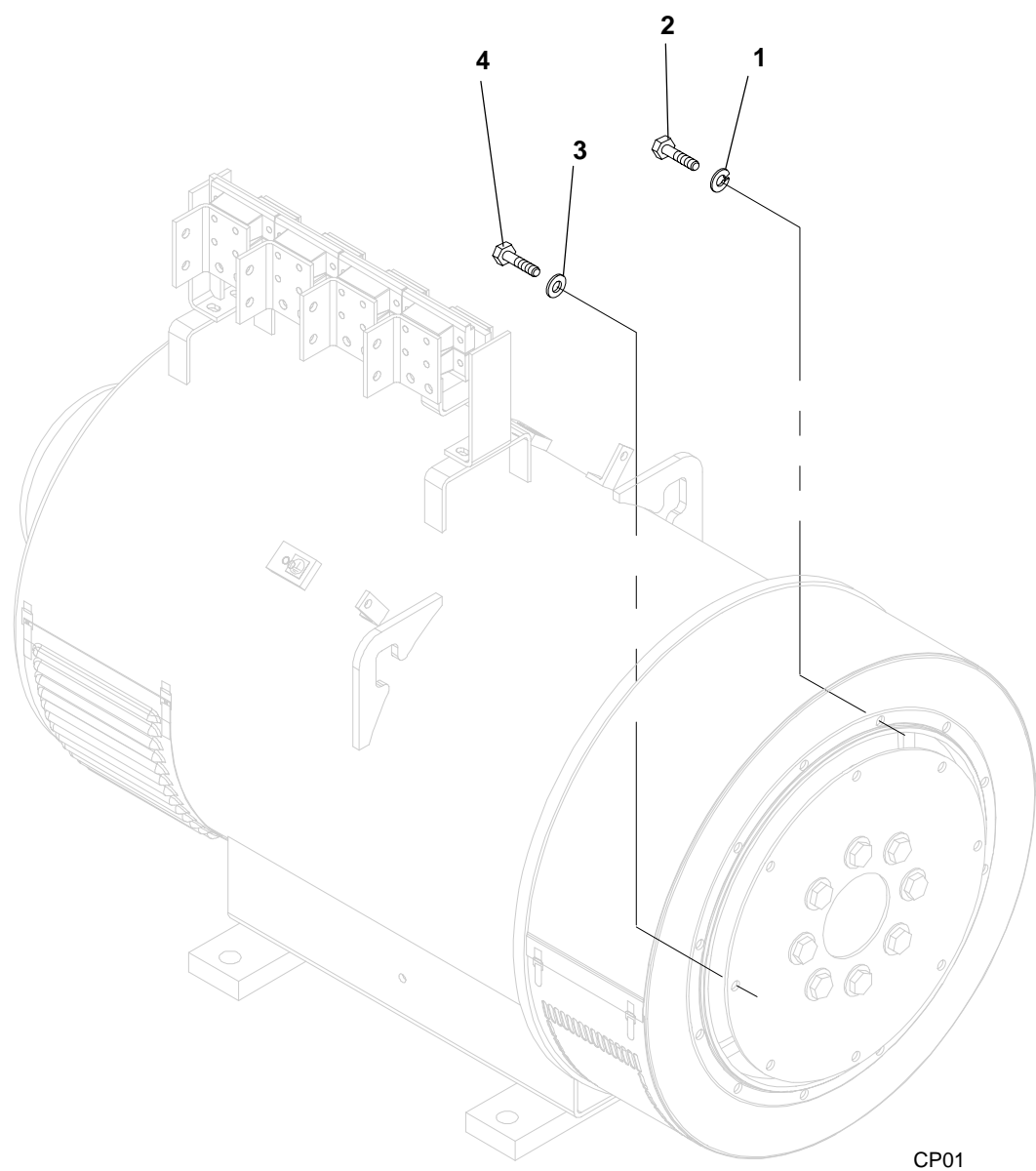
Generator Heater



A292

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cartridge, Heater (300 Watt)	10	850-2003	1	Washer, Lock – Spring (M3)
	333-0438-05	1	110/125 Volts	11	822-3047	1	Screw, Machine – Pan Head (M3 x 20mm)
	333-0438-06	1	220/260 Volts	12	508-0228	1	Grommet
2	232-3849	1	Bracket, Mounting – Heater	13	332-3023	1	Block, Terminal
3	332-3024-14	2	Clamp, Loop	14	898-1254-25	1	Sleeving – Heater Leads (59")
4	822-3075	6	Screw, Machine – Slotted Pan Head (M4 x 16mm)	15	330-0142	1	Box, Terminal
5	850-2004	2	Washer, Lock – Spring (M4)	16	517-0021	1	Plug, Dot Button
6	860-2005	2	Nut, Hex (M4)	17	330-0141-03	1	Cover, Box
7	850-2005	2	Washer, Lock – Spring (M5)	18	330-0141-04	1	Gasket, Cover
8	860-2006	2	Nut, Hex (M5)				
9	800-2008	2	Screw, Cap – Hex Head (M5 x 16mm)				

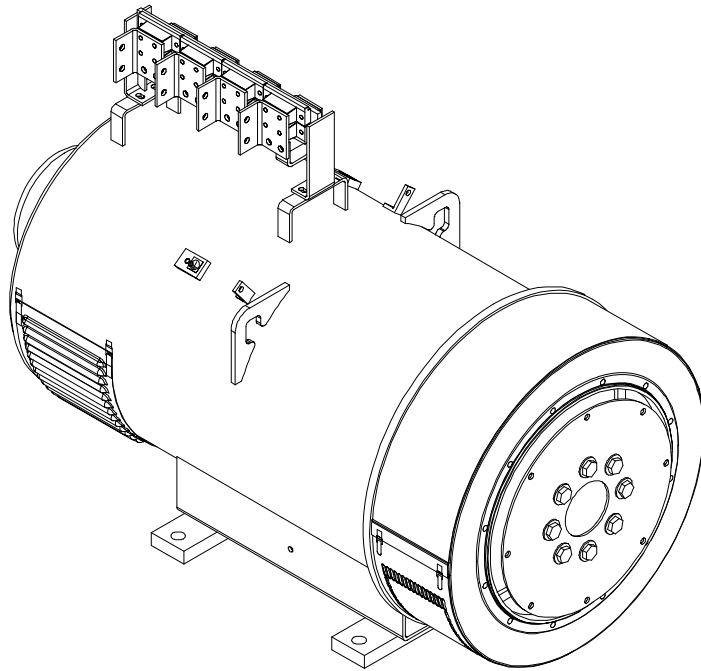
Generator Mounting



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	526-0034-01	12	Washer, Cylinder Head (7/16)	3	526-0035	8	Washer, Flat (1/2)
2	800-0608-02	12	Screw, Cap – Hex Head (7/16-14 x 1.75)	4	805-0032	8	Bolt, Place (1/2-13 x 1.25)

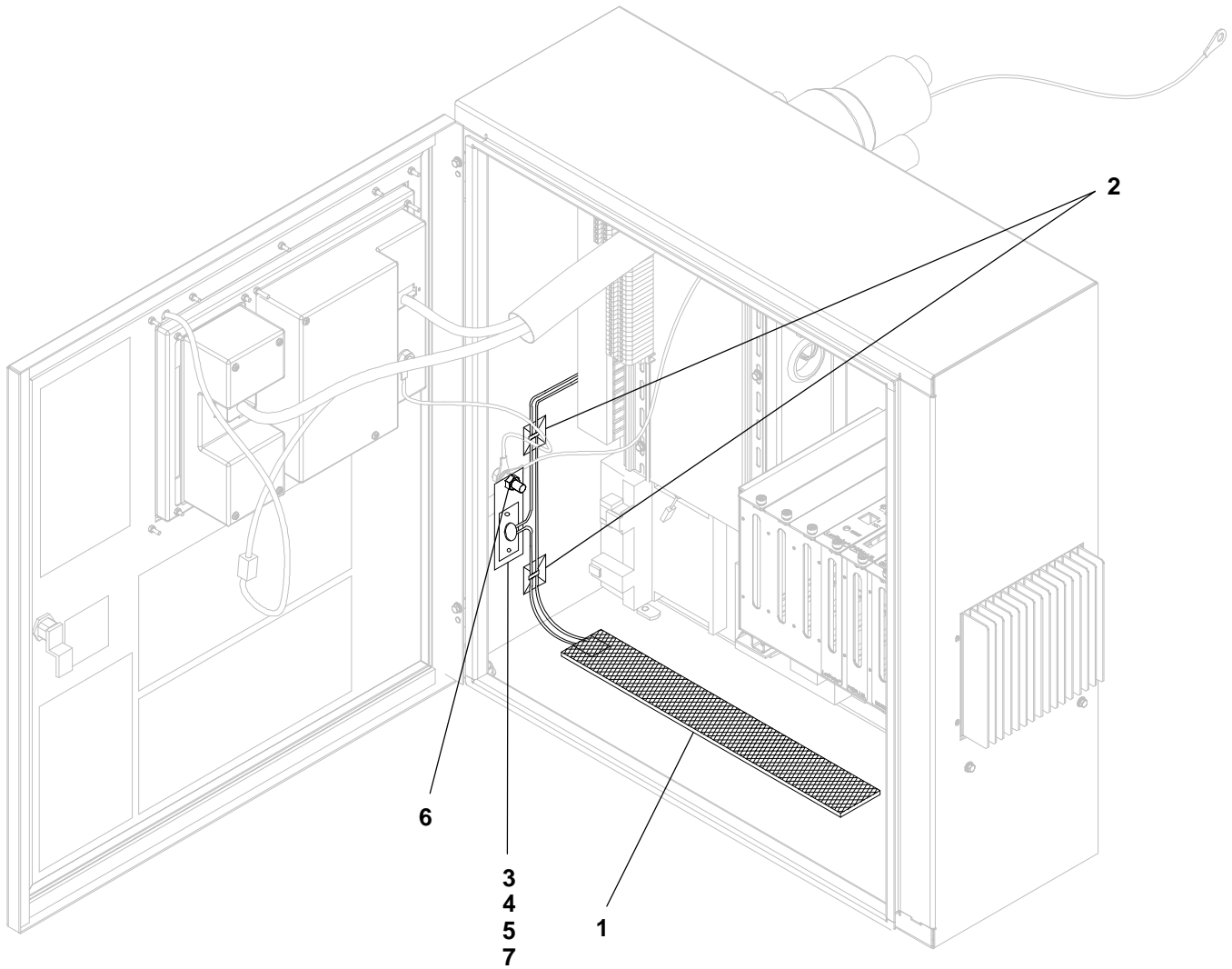
Generator

Refer to the Newage nameplate and supply all available information. Contact your nearest Newage distributor for assistance in ordering component parts. For COMPLETE generator replacement use the 249–XXXX–XX Cummins Power Generation identification number listed below.



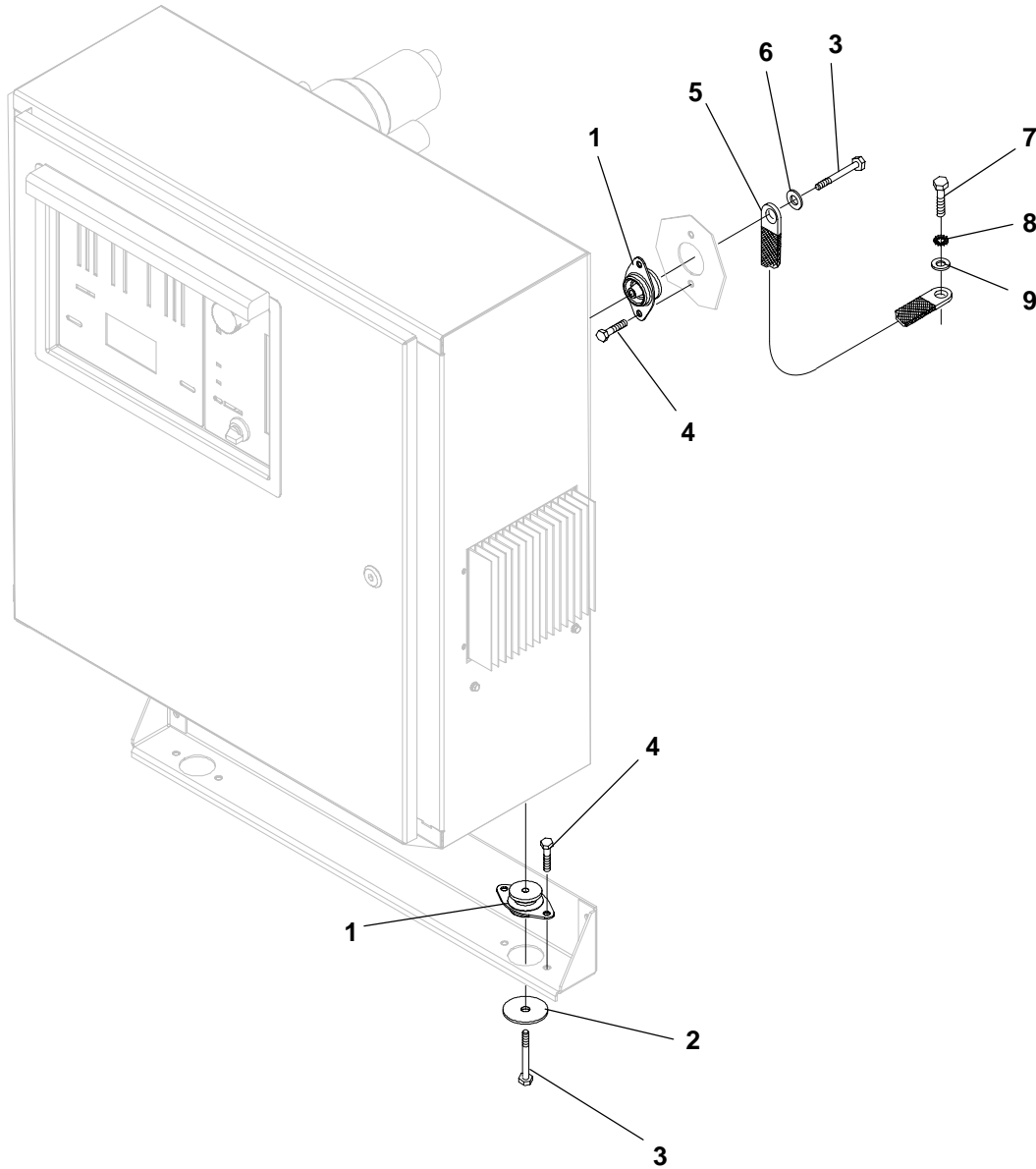
Cummins Power Generation Identification Number	Generator Model Number
249–5108–01	HC534C
249–5108–02	HC534D
249–5108–03	HC534E
249–5108–04	HC534F
249–5108–13	HC534C
249–5108–14	HC534D
249–5108–15	HC534E

Control Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater Assembly, Control – 150 Watt	3	813-0098	2	Screw, Machine (#10-32 x 3/8)
	333-0645-01	1	120 Volt	4	850-0030	2	Washer, Split (#10)
	333-0645-02	1	240 Volt	5	860-2006	2	Nut, Hex (M5 x .8)
2	332-2420	2	Mount, Cable	6	860-2009	1	Nut, Hex (M10 x 1.5)
				7	319-4309-02	1	Bracket, Thermostat

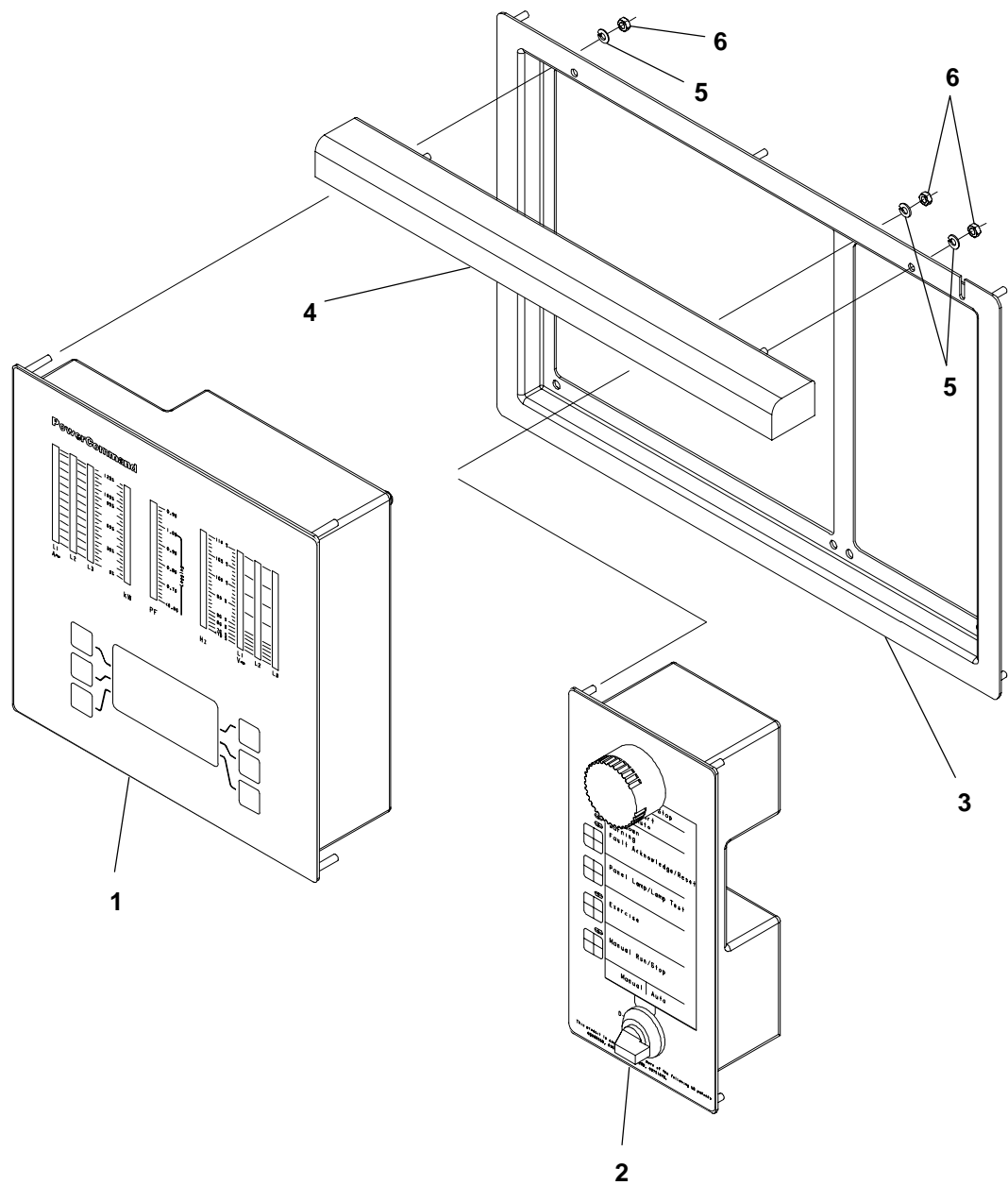
Control Box Mounting



H606

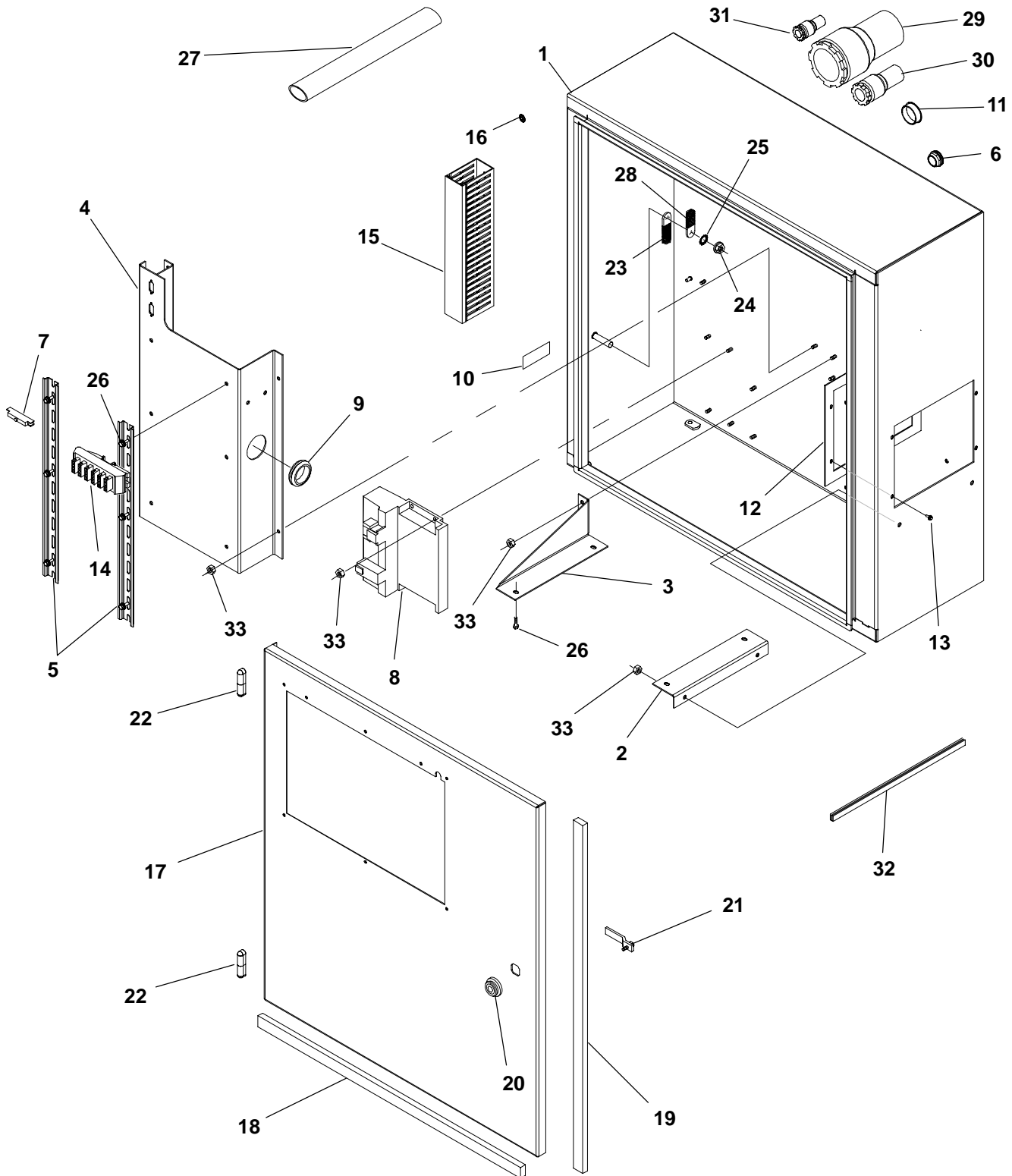
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	402-0751	4	Isolator, Vibration	5	337-3466-04	1	Strap, Bond
2	402-0749	2	Washer, Vibration Isolator	6	526-2100	1	Washer, Flat (M8)
3	821-6003-07	4	Screw, Hex Head (M8 x 1.25 x 45)	7	800-2084	1	Screw, Cap – Hex Head (M10 x 16)
4	821-6003-01	8	Screw, Hex Head (M8 x 1.25 x 16)	8	856-0010	1	Washer – W/EIT (3/8)
				9	526-2120	1	Washer, Flat (M10)

PowerCommand Control Panel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-5312	1	Display Assembly	4	300-5291	1	Rail, Operator Panel Light
2	300-5311	1	Panel Assembly	5	850-2004	16	Washer, Lock (M4)
3	300-5280-02	1	Frame, Control Panel	6	860-2005	16	Nut, Hex (M4 x .7)

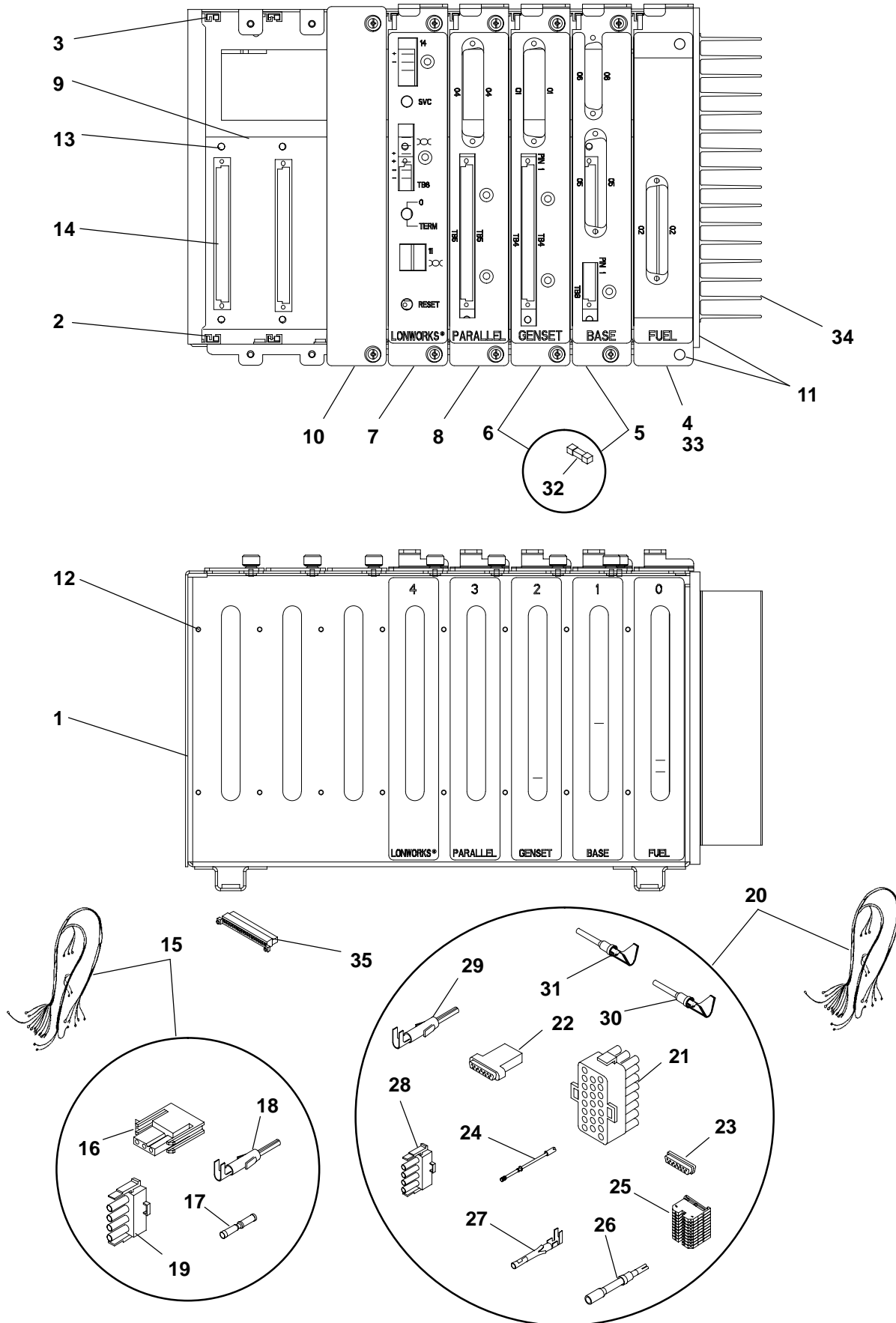
PowerCommand Control



PowerCommand Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4204-02	1	Box, Control	20	406-0930	1	Latch, Door
2	319-4208-02	1	Bracket, Housing	21	406-0932-02	1	Latch, Cam – Single Point
3	319-4209-02	1	Bracket, Housing	22	406-0810	2	Hinge, Block
4	319-3965-02	1	Divider, Control	23	337-3466-01	1	Strap, Ground
5	332-2879-08	2	Rail, Terminal	24	870-0550-09	2	Nut, Hex – Flange (3/8–16)
6	517-0266	4	Plug, Hole	25	853-0040-07	1	Washer, Star
7	323-1411-01	4	Clip, Socket Mounting	26	821-6001-01	18	Screw, Hex Head (M5 x 12)
8	300-4306	1	Regulator, Voltage	27	898-1346-05	1	Sleeving – 15 in.
9	508-0183	1	Grommet	28	337-3466-02	1	Strap, Ground
10	098-6635	1	Label, Ground	29	502-1334-05	1	Connector, Cable Entry (103.4 mm OD Nut)
11	517-0138-05	1	Plug, Hole	30	502-1334-03	1	Connector, Cable Entry (48.3 mm OD Nut)
12	363-0189	1	Gasket, Heatsink	31	502-1334-02	1	Connector, Cable Entry (35.8 mm OD Nut)
13	815-0828-04	4	Screw, Hex Head (M4 x 16)	32	508-0139	–	Channel, Guard – Bulk (Order by the Foot 1 Foot Required)
14	300-5345	1	Board, Printed Circuit – Power Distribution	33	870-2208	12	Nut, Hex – Flange Head (M5)
15	331-0195	.60	Duct, Wiring				
16	870-2220-01	9	Pushnut				
17	319-3973-02	1	Door, Control				
18	895-0293-12	2	Gasket, Door				
19	895-0293-13	2	Gasket, Door				

Card Cage



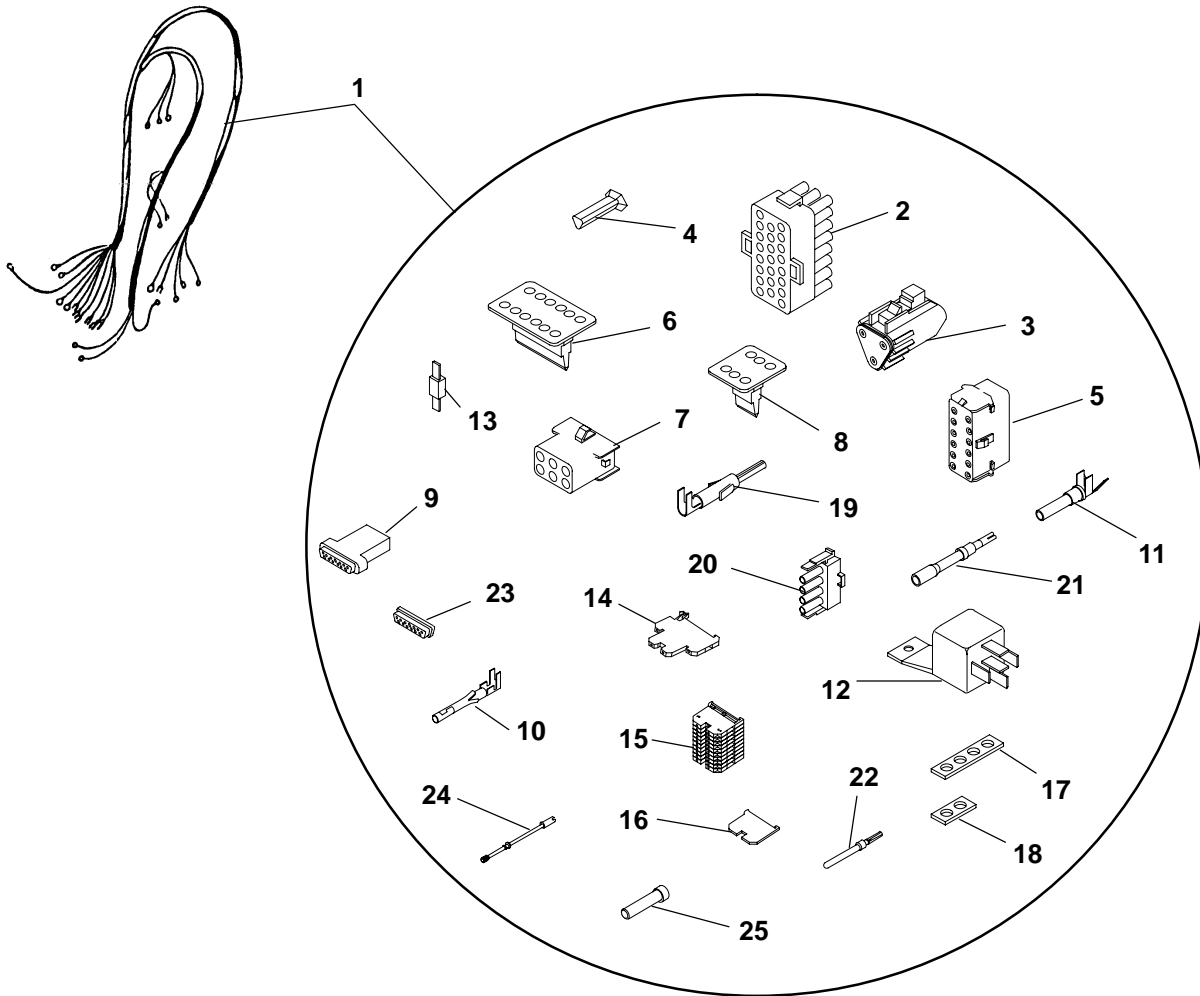
Card Cage

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3606-02	1	Cage, Card – Genset	18	323-1199	2	* Pin, Contact
2	406-0916	8	Guide, Metal Card – Left	19	323-1292	1	* Plug (4 Pin)
3	406-0917	8	Guide, Metal Card – Right	20	338-3906	1	Harness, Wiring – Parallel (Includes Parts Marked #)
4	300-4970	1	Board, Printed Circuit – PT Fuel	21	323-1605-03	1	# Plug (23 Pin) (Station 8)
5	300-4969	1	Board, Printed Circuit – Base (Includes Fuse)	22	323-1837	1	# Connector, Contact (50 Pin) (Station 4)
6	300-5187	1	Board, Printed Circuit – Generator Interface (Includes Fuses)	23	323-1843	1	# Grommet (50 Place)
7	300-5241	1	Board, Printed Circuit – Lonworks	24	323-1844	2	# Jackscrew
8	300-5270	1	Board, Printed Circuit – Parallel	25	332-3125-02	1	# Block, Terminal (10 Pole) (TB3)
9	300-4968	1	Board, Printed Circuit – Backplane	26	323-1835-01	38	# Socket, Contact (Used With Station 4)
10			Cover, Card Cage – Blank	27	323-1614-01	12	# Pin, Contact
	319-3605-02	5	With Base Board	28	323-1292	1	# Plug (4 Pin)
	319-3605-02	4	With Base and Lonworks Boards	29	323-1199	3	# Pin, Contact
	319-3605-02	3	With Base, Lonworks and Parallel Boards	30	323-1491	A/R	# Socket
11	815-0947	6	Screw, Hex Head (Used to Mount Fuel Board W/Heatsink to Card Cage) (M3 x 10)	31	323-1492	A/R	# Pin
12	815-0949	32	Screw, Hex Head (4-40 x 1/4)	32	340-0475-14	7	Fuse (5 Amp) (Five Used On Generator Interface Board and Two Used On Base Board)
13	815-0948	16	Screw, Hex Head (M4 x 6)	33	300-5126	1	Board, Printed Circuit – TP Fuel
14			Cover, Header – 96 Pin	34	363-0183	1	Heatsink
	323-1848	5	With Base Board	35			Connector, Plug
	323-1848	4	With Base and Lonworks Boards		323-1846-01	A/R	5 Positions – Coding Key Positions 2, 4
					323-1846-02	A/R	6 Positions – Coding Key Positions 1, 6
	323-1848	3	With Base, Lonworks and Parallel Boards		323-1846-03	A/R	18 Positions – Coding Key Positions 3, 16
					323-1846-04	A/R	18 Positions – Coding Key Positions 1, 18
15	338-3907	1	Harness, Wiring – Lonworks (Includes Parts Marked *)				
16	323-1849	1	* Connector, Contact (3 Pin)				
17	323-1486	2	* Socket, Contact				

* – Parts Included in 338-3907 Wiring Harness

– Parts Included in 338-3906 Wiring Harness

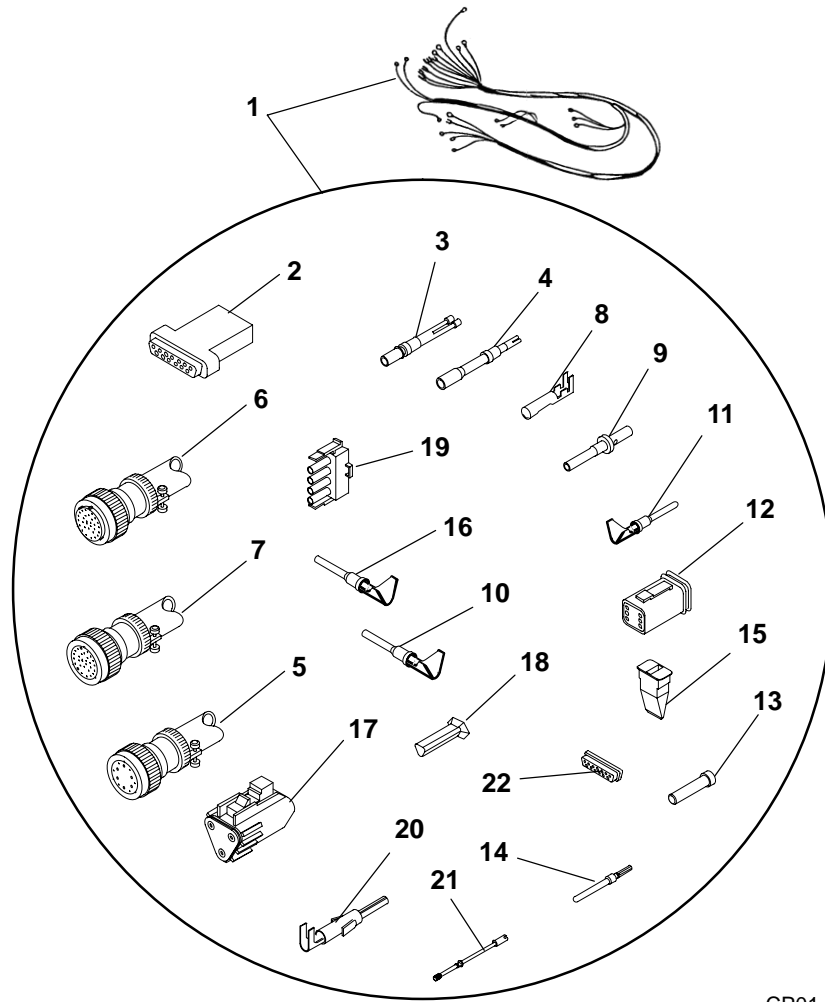
Wiring Harness Control



CP01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3905	1	Harness, Control (Includes Parts Listed Below)	11	323-1492	26	Socket, Contact
2			Plug, Connector (23 Place)	12	307-2817-02	2	Relay (24 Volt) (K14, K15)
	323-1605-01	1	Colored Black (Station 23)	13	357-0030	1	Rectifier, Silicon
	323-1605-03	1	Colored Grey (Station 8)	14	332-3125-04	10	Block, Terminal (Single)
3	323-1493	1	Plug, Connector (3 Place)	15	332-3125-02	1	Block, Terminal (10 Terms)
			(Station 22)	16	332-3126-02	3	Spacer
4	323-1503	1	Wedge (3 Place)	17	332-2843-07	2	Jumper, Terminal (4 Pole)
5	323-1582	1	Plug, Connector (12 Place)	18	332-2843-05	1	Jumper, Terminal (2 Pole)
6	323-1583	1	Wedge (12 Place)	19	323-1199	4	Pin, Contact
7	323-1623	2	Plug, Connector (6 Place)	20	323-1292	2	Plug (4 Place)
			(Station 7, Station Inline D)	21	323-1835-02	54	Socket, Contact
8	323-1624	2	Wedge (6 Place)	22	323-1847-01	4	Pin, Contact
9			Contact, Connector	23			Grommet
	323-1841	1	9 Place (Station RS232)		323-1843	1	50 Place
	323-1836	1	25 Place (Station 6)		323-1845	1	25 Place
	323-1837	1	50 Place (Station 1)	24	323-1844	4	Jackscrow
10	323-1614-01	30	Pin, Contact	25	323-1591	A/R	Plug, Seal

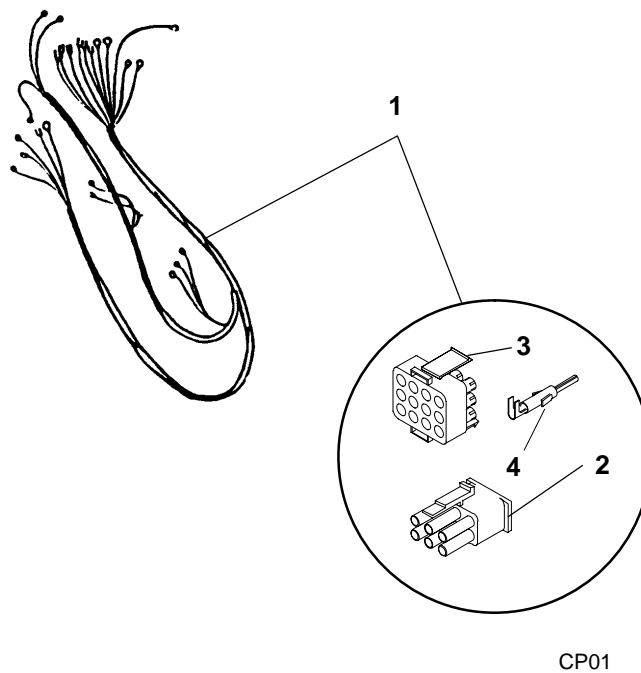
Wiring Harness Engine Extension



CP01

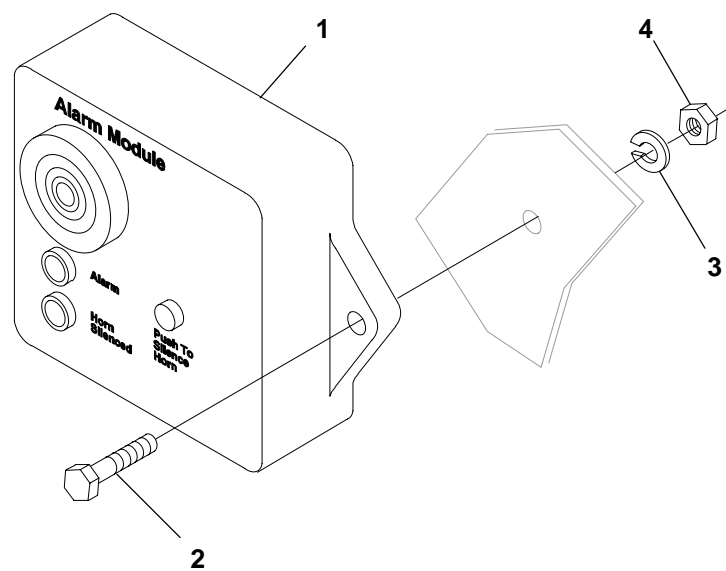
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3904	1	Harness, Wiring – Engine Extension (Includes All Parts Listed Below)	8	323-1752	30	Socket, Contact
2			Connector, Contact	9	323-1838	6	Pin, Contact
	323-1841	1	9 Place (Includes Screws and Locknuts) (Connector 13)	10	323-1491	50	Pin, Contact
	323-1837	2	50 Place (Includes Backshell and Hardware) (Connector 2 and 5)	11	323-1834	42	Pin, Contact
3	323-1835-01	38	Socket, Contact (5/8" Long)	12	323-1625	1	Housing, Connector (6 Place) (Inline D)
4	323-1835-02	30	Socket, Contact (7/8" Long)	13	323-1591	A/R	Plug, Seal
5	323-1833	1	Plug, Connector (19 Place) (Inline C)	14	323-1847-01	9	Pin, Connector
6	323-1832	1	Plug, Connector (33 Place) (With Center Collar) (Inline A)	15	323-1626	1	Wedge (6 Place)
7	323-1831	1	Plug, Connector (33 Place) (Without Center Collar) (Inline B)	16	323-1492	35	Socket, Contact
				17	323-1493	1	Plug, Connector (3 Place)
				18	323-1503	1	Wedge (3 Place)
				19	323-1292	14	Plug (4 Place)
				20	323-1199	44	Pin, Contact
				21	323-1844	2	Jackscrew
				22	323-1843	2	Grommet

Wiring Harness AC



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4002		Harness, Wiring – AC (15 Wire) (Includes Parts Listed Below)	3	323-1644-03	1	Housing, Connector (12 Place) (P9)
2	323-1643-01	1	Plug, Connector (6 Place) (P10)	4	323-1648	15	Socket, Contract (10 Each Used In P9, 5 Each Used In P10)

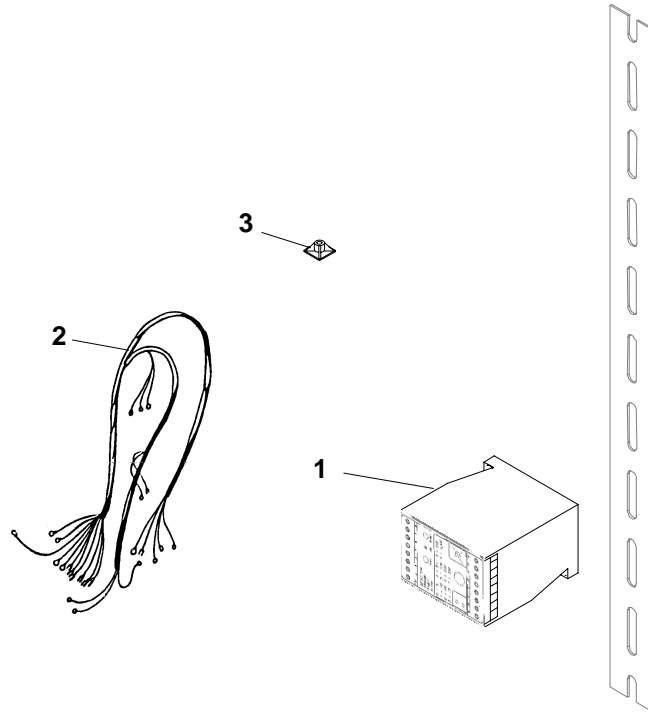
Audible Alarm Module



KA08

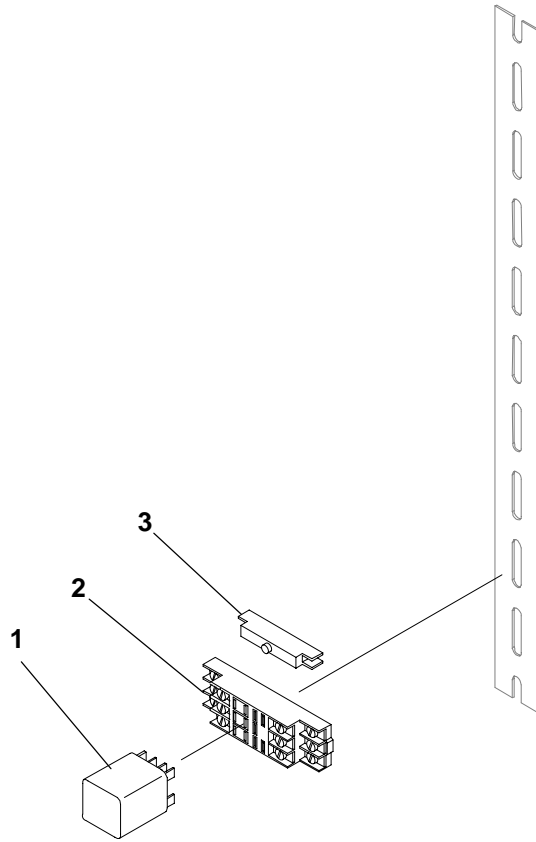
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-3998-01	1	Module, Audible Alarm	4	862-0001	2	Nut, Hex (1/4")
2	800-0006	2	Screw, Cap – Hex Head (1/4-20 x 7/8")				
3	850-0040	2	Washer, Lock – Spring (1/4")				

Ground Fault Relay



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2843	1	Relay (GFA)	3	332-2420	A/R	Mount, Cable Tie
2	338-3916	1	Harness, Wiring (TB3 and TB5)				

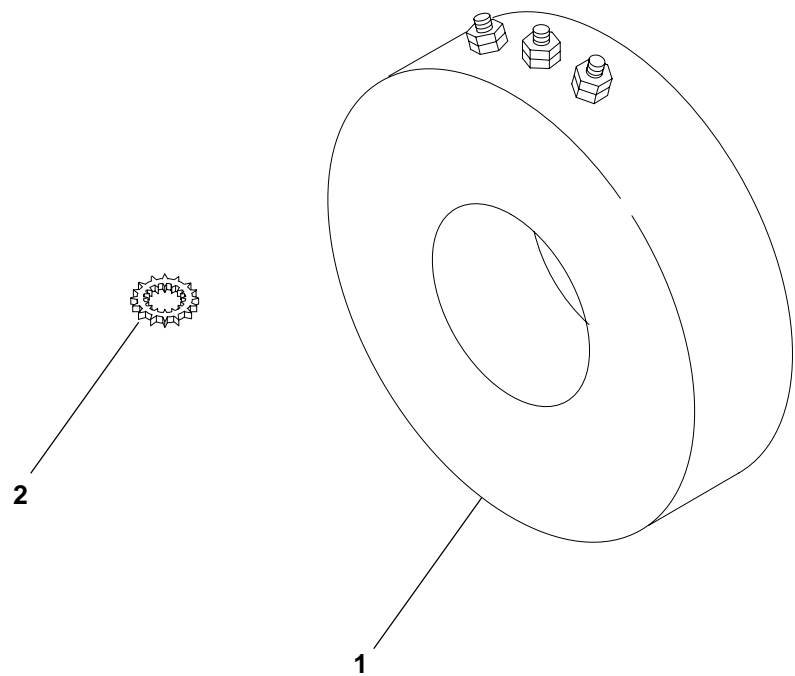
Customer Relays



K911

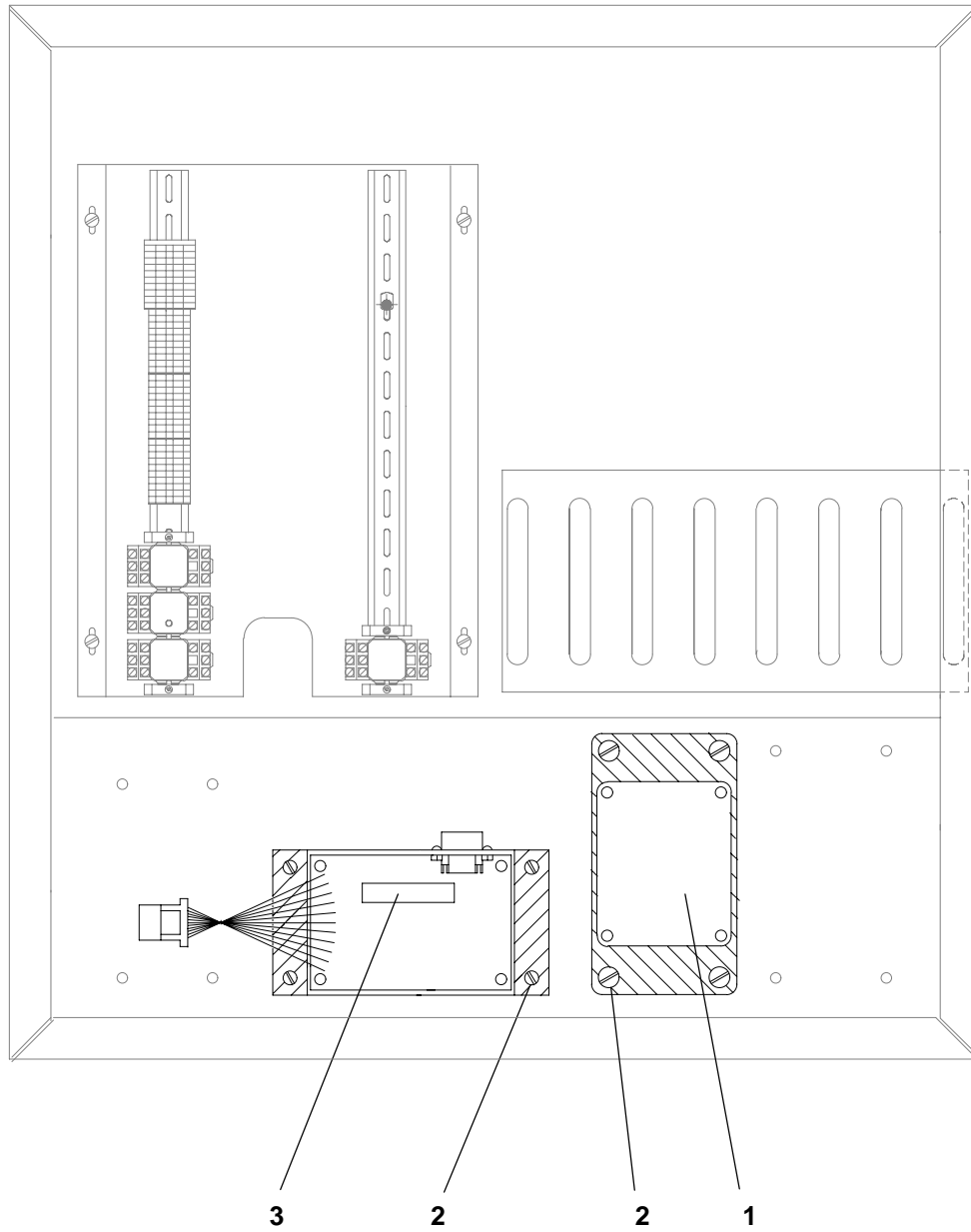
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Relay (24 Volt)	2			Socket, Relay
	307-1056-01	1	Alarm Relay (K16)		323-1410-01	1	Alarm Relay
	307-1056-01	3	Run Relay (K11,12,13)		323-1410-01	3	Run Relay
				3	323-1411-01	2	Clip, Socket Mounting

Current Transformer



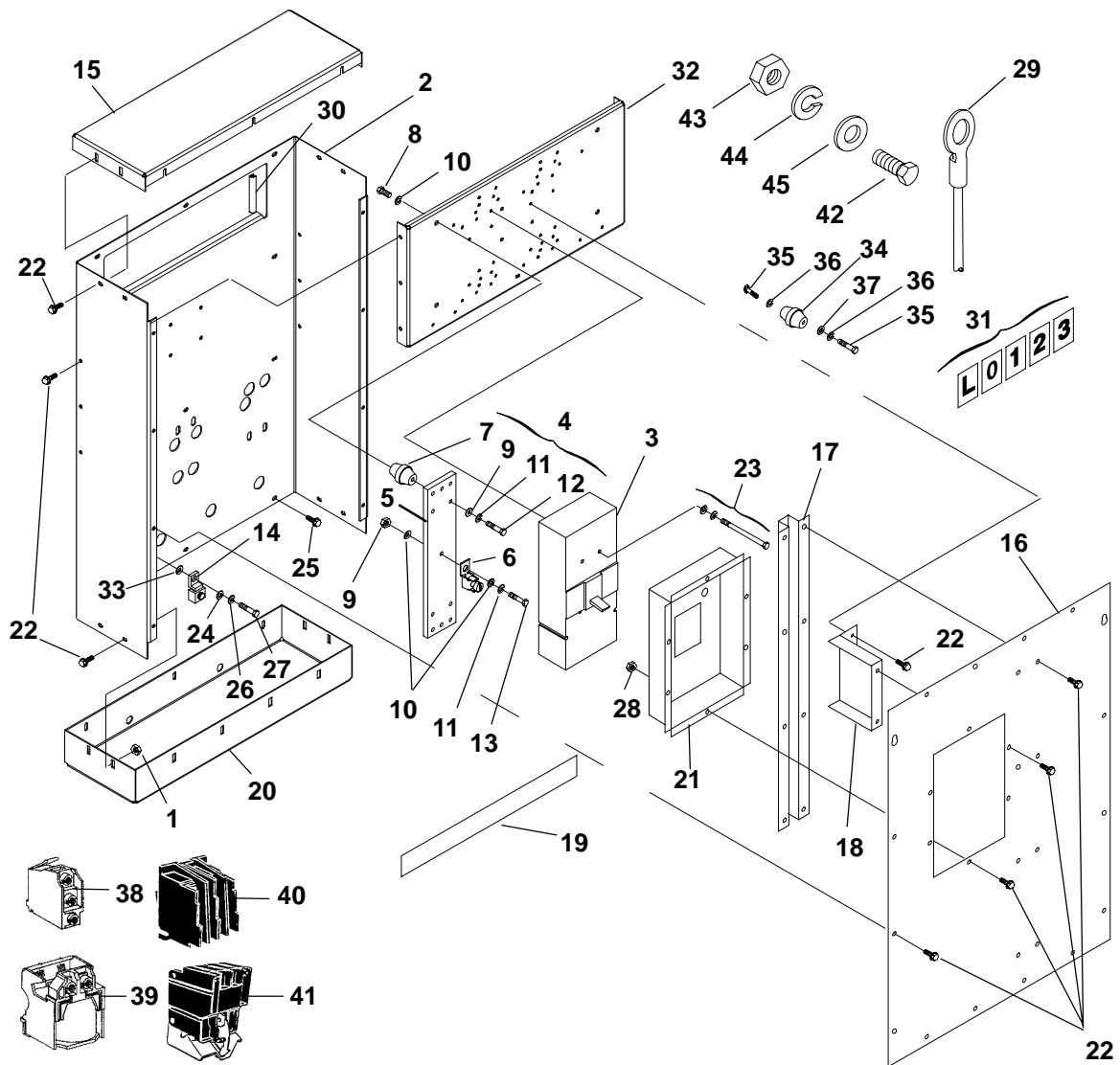
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT21, CT22, CT23)	2	856-0008	2	Washer, Lock – W/EIT
	302-1922-21	3	Ratio 789/1 or 1578/1				
	302-1922-26	3	Ratio 1070/1 or 2140/1				
	302-1922-29	3	Ratio 1262/1 or 2524/1				
	302-1922-32	3	Ratio 1519/1 or 3038/1				
	302-1922-34	3	Ratio 1893/1 or 3786/1				

Power Transformer Module



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Printed Circuit – PT Bus Module	2	821-6001-02	12	Screw, Hex Head (M5 x 12)
	300-4309-01	1	120 Volt	3			Board, Printed Circuit – PT/CT Module
	300-4309-02	1	240 Volt		300-4308-01	1	120 Volt
	300-4309-03	1	346 Volt		300-4308-02	1	240 Volt
	300-4309-04	1	69 Volt		300-4308-03	1	346 Volt

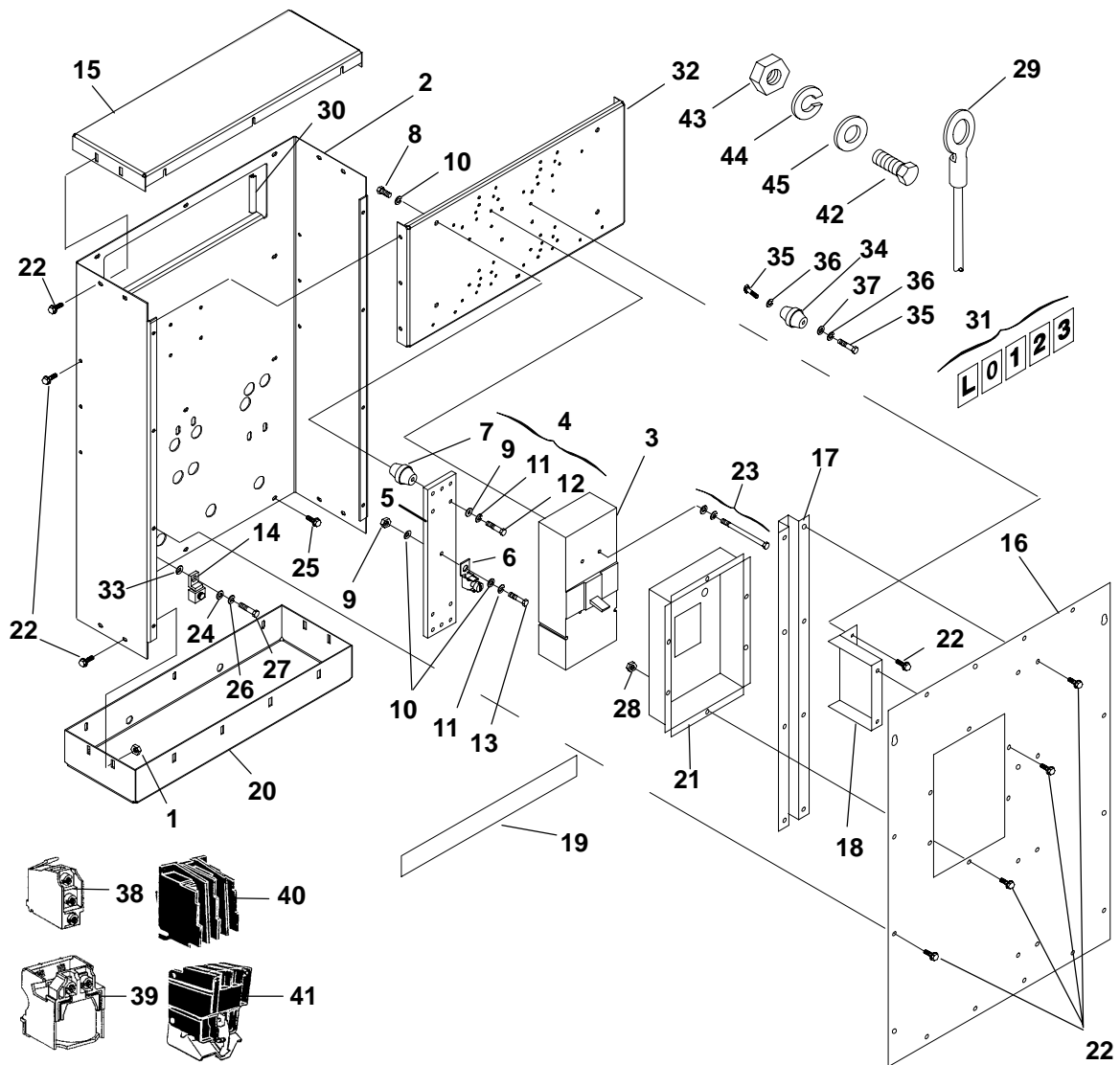
Circuit Breaker and Disconnect Switch



Circuit Breaker and Disconnect Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0504	16	Nut, Self-Retaining (M6)	7	332-2744-07	2	*#Standoff, Insulator
2	319-3169	1	Box, Circuit Breaker	8	800-0048	2	*#Screw, Cap – Hex Head (3/8-16 x 3/4")
3			The following listed Circuit Breakers and Disconnect Switches include lugs and mounting hardware.	9	862-0003	3	*#Nut, Hex (3/8")
			Circuit Breakers	10	526-0029	8	*#Washer, Flat (3/8")
			3 Pole (UL, IEC)	11	850-0050	7	*#Washer, Lock – Spring (3/8")
	320-1959-03	1	200 Amp	12	800-0051	2	*#Screw, Cap – Hex Head (3/8-16 x 1-1/4")
	320-1959-02	1	225 Amp	13	800-0052	3	*#Screw, Cap – Hex Head (3/8-16 x 1-1/2")
	320-1959-01	1	250 Amp	14	332-2001	1	Lug, Solderless
	320-1960-06	1	300 Amp	15	319-1915	1	Panel – Top
	320-1960-05	1	350 Amp	16			Cover
	320-1960-04	1	400 Amp		319-1917	1	All Except 4 Pole Switches Mounted on the Right Side When Facing Control
	320-1960-03	1	450 Amp				
	320-1960-02	1	500 Amp		319-2463	1	4 Pole Switches Mounted on the Right Side When Facing Control
	320-1960-01	1	600 Amp				
	320-1964-05	1	700 Amp				
	320-1964-04	1	800 Amp				
	320-1964-03	1	900 Amp	17	319-3284	1	Brace, Cover
	320-1964-02	1	1000 Amp	18	319-3333	1	Brace, Cover
	320-1964-01	1	1200 Amp	19	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers and disconnect switches) (Quantity Used As Required)
			4 Pole (IEC)				
	320-1960-08	1	500 Amp				
	320-1960-07	1	630 Amp				
	320-1964-08	1	800 Amp				
	320-1964-07	1	1000 Amp	20	319-3183	1	Panel – Bottom
	320-1964-06	1	1250 Amp				
			Disconnect Switches				
			3 Pole (UL, IEC)				
	320-1990-01	1	600 Amp				
	320-1992-02	1	800 Amp				
	320-1992-01	1	1200 Amp				
4	300-4318-01	1	#Bar Assembly, Neutral (Includes Parts Marked *)				
5	337-2740	2	*#Bar, Neutral				
6	332-2001	3	*#Lug, Solderless				

Circuit Breaker and Disconnect Switch

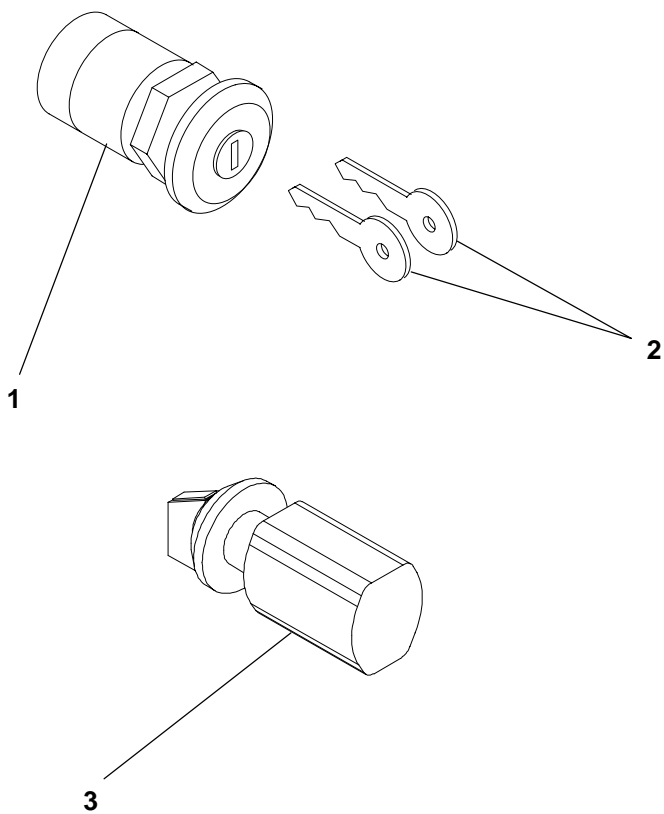


Circuit Breaker and Disconnect Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				32	319-3329	1	Bracket, Mounting
21	319-2431-27	1	Cup	33	856-0010	1	Washer, Lock – EIT (3/8")
	319-2431-31	1	1-7/8" x 3-1/32" Opening	34	332-2744-07	1	Standoff, Insulator (NSF Frame)
	319-2431-30	1	2-1/2" x 4-9/16" Opening	35	800-0048	2	Screw, Cap – Hex Head (3/8-16 x 3/4") (NSF Frame)
22	821-6002-03	53	3-5/16" x 4-3/8" Opening	36	850-0050	2	Washer, Lock – Spring (3/8") (NSF Frame)
23			Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	37	526-0029	1	Washer, Flat (3/8") (NSF Frame)
			Package, Hardware – Mounting (Includes Screws, Nuts and Lock Washers – 1 Package Required Per Switch)	Accessories, Circuit Breaker: The following are used on 320-1959-XX and 320-1960-XX Circuit Breakers			
	320-1986-08	1	Used With 320-1959-XX Circuit Breaker Switches	38	320-1981-01	2	Switch – Used as a Trip Alarm or Auxiliary Contact
	320-1986-07	1	Used With 320-1960-XX Circuit Breakers and 320-1990-XX Disconnect Switches	39	320-1981-03	1	24 Volt Shunt Trip
	320-1986-01	1	Used With 320-1964-XX Circuit Breakers and 320-1992-02 Disconnect Switches	Accessories, Circuit Breaker: The following are used on 320-1964-XX Circuit Breakers			
24	526-2120	1	Washer, Flat (M10)	40	320-1977-01	1	Switches – Includes 1 Trip Alarm and 1 Auxiliary Contact
25	821-2034	2	Screw, Self-Locking – Hex Washer Head (M6 x 20mm)	41	320-1977-03	1	24 Volt Shunt Trip
26	850-2010	1	Washer, Lock – Spring (M10)	The following four hardware items are used to fasten the load leads to the generator and neutral bar on HC5 generators. Quantity used as required.			
27	800-2088	1	Screw, Cap – Hex Head (M10 x 35mm)	42	800-2116	1	Screw, Cap – Hex Head (M12 x 50mm)
28	870-2054	4	Nut, Hex – Flange (M6)	43	860-2010	1	Nut, Hex (M12)
29			Lead (Quantity Used As Required) 39" (Without Markings) (#1/0 Wire)	44	850-2012	1	Washer, Lock – Spring (M12)
	226-4406-03	1	1/2" Ring Terminal End to 1" Stripped End	45	526-2140	1	Washer, Flat (M12)
	226-4406-04	1	1/2" Ring Terminal End to 1/2" Ring Terminal End				
30	508-1092	–	Edging – Bulk (Order By The Foot – 3 Feet Required)				
31			Label, Marker (10 Characters Per Card) (Quantity Used As Required)				
	098-5854-06	1	Marked "L"				
	098-5854-07	1	Marked "1"				
	098-5854-08	1	Marked "2"				
	098-5854-09	1	Marked "3"				
	098-5854-10	1	Marked "0"				

* – Parts Included In 300-4318-01 Neutral Bar Assembly
– Parts Used With Three Pole Circuit Breakers and Disconnect Switches

Operator Switch



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

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	155-2340-02	1	Muffler – Industrial	3	155-2342-03	1	Muffler – Critical
	155-2340-03	1	53.2" Long		155-2065-08	1	83.4" Long
	155-2063-07	1	54.3" Long	4			87.0" Long
2			Muffler – Residential		155-3366-01	1	Package, Pipe – Exhaust
	155-2341-03	1	58.0" Long		155-3366-02	1	W/NPT Elbow to 8" ASA
	155-2064-07	1	88.3" Long		155-3366-03	1	W/NPT Elbow to 10" ASA
			64.0" Long		155-3366-04	1	W/ASA 6" Elbow to 8" ASA
							W/ASA 6" Elbow to 10" ASA

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Cummins Power Generation
1400 73rd Avenue N.E.
Minneapolis, MN 55432
1-800-888-6266
763-574-5000 International Use
Fax: 763-574-8087

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