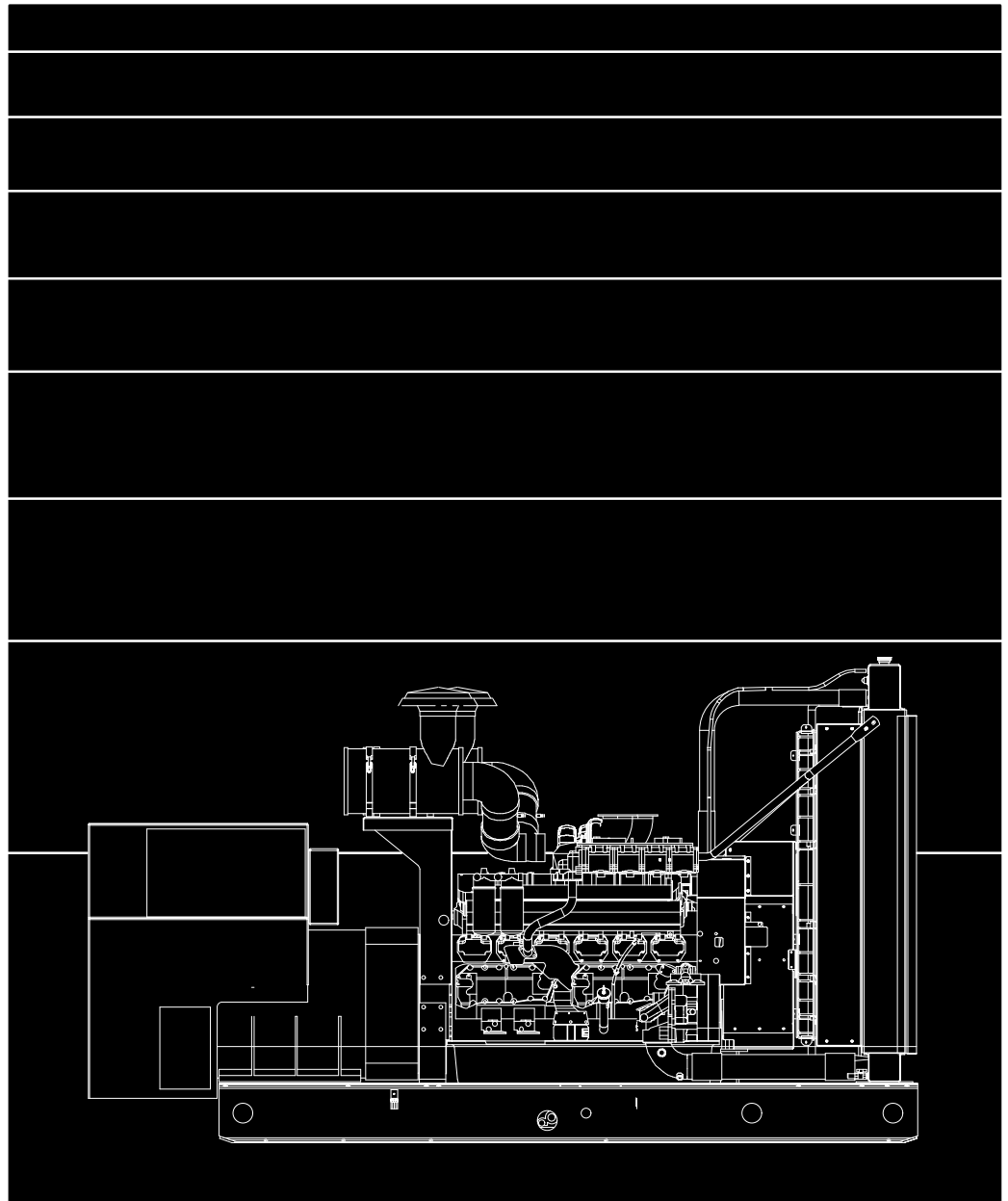




Parts Catalog

DFHA (Spec A-C) DFHC (Spec A-C)
DFHB (Spec A-C) DFHD (Spec A)

Generator Set



Printed in U.S.A.

960-0241C 12-99
Replaces 960-0241B 12-98

MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Onan 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 Onan 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 Onan equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.



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



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



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

Introduction

This Parts Catalog applies to Onan Generator Models DFHA, DFHB, DFHC and DFHD as listed in the Generator Set Data Table. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding with the same reference number in the parts list. Parts illustrations are typical. Unless otherwise mentioned in the description or 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.

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

Replacement Engine

Onan/Cummins Generator Model	Cummins Engine Model
620 DFHA (Spec A, B) 750 DFHA (Spec A, B) 620 DFHA (Spec C) 750 DFHA (Spec C)	QST30–G2, Configuration No. D573001GX03 QST30–G2, Configuration No. D573001GX03 QST30–G1, Configuration No. D573001GX03 QST30–G1, Configuration No. D573001GX03
700 DFHB 800 DFHB	QST30–G2, Configuration No. D573001GX03 QST30–G2, Configuration No. D573001GX03
800 DFHC (Spec C) 900 DFHC	QST30–G3, Configuration No. D573001GX03 QST30–G3, Configuration No. D573001GX03
880 DFHD (Spec A) 1000 DFHD (Spec A)	QST30–G4, Configuration No. D573001GX03 QST30–G4, Configuration No. D573001GX03

Generator Set Data Table

Model/ Specification	Electrical Data				Battery Voltage
	Volts	Hertz	Wire	Phase	
620 DFHA/* 750 DFHA/*	# #	50 60	6 or 12 6 or 12	3 3	24 VDC 24 VDC
700 DFHB/* 800 DFHB/*	# #	50 60	6 or 12 6 or 12	3 3	24 VDC 24 VDC
800 DFHC/* 900 DFHC/*	# #	50 60	6 or 12 6 or 12	3 3	24 VDC 24 VDC
880 DFHD/* 1000 DFHD/*	# #	50 60	6 or 12 6 or 12	3 3	24 VDC 24 VDC

* – 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 with major manufacturing changes.

Broad Range Reconnectible.

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Abbreviations

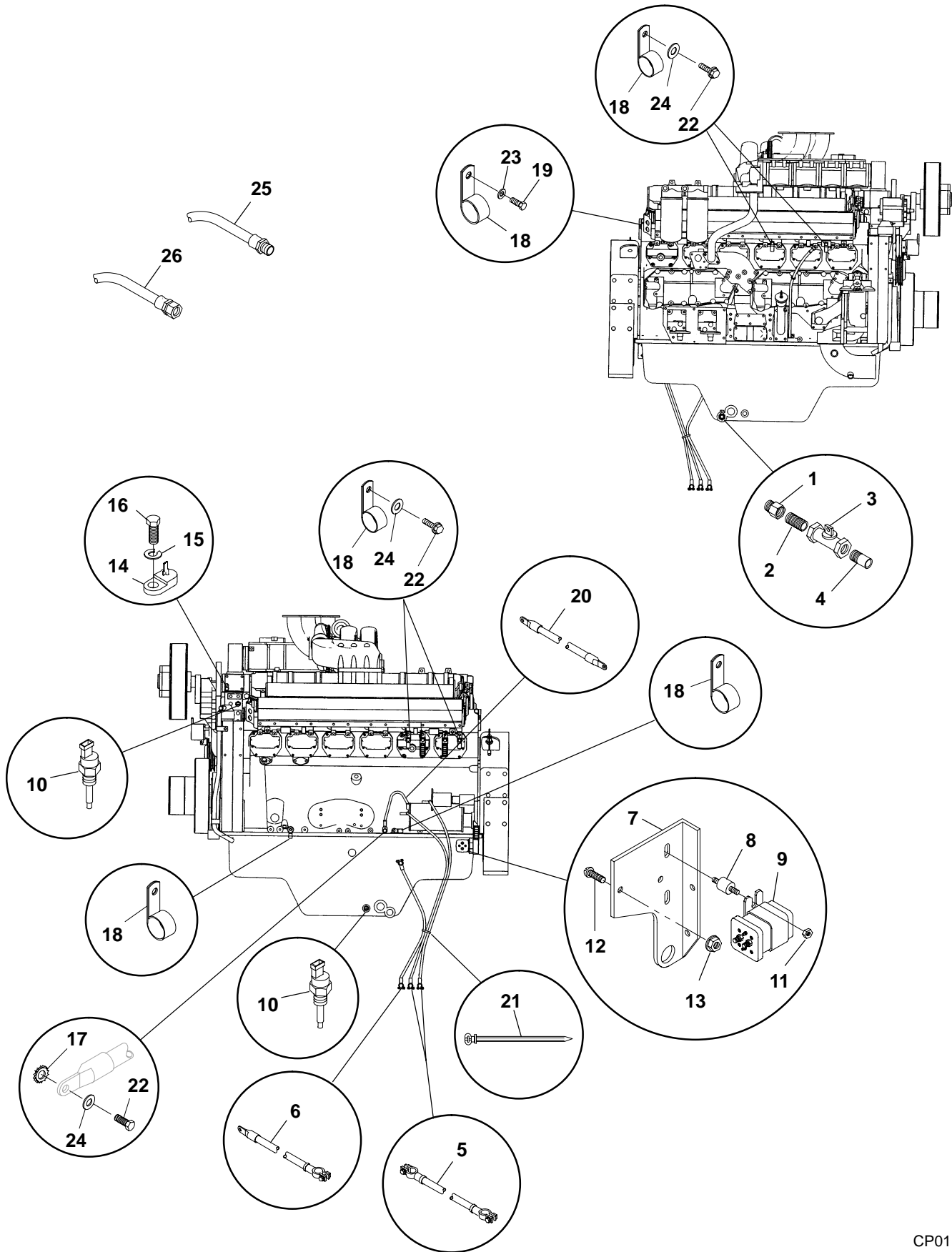
Some of the following abbreviations may be used throughout this Parts Catalog:

AC	Alternating Current	MCM	Metric Circular Mills
Amp	Ampere	mm	Millimeter
A/R	As Required	MOH	Mobile Off Highway
AVR	Automatic Voltage Regulator	NFS	Not For Sale
AWG	American Wire Gauge	NPT	National Pipe Thread
CSA	Canadian Standard Association	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
EPRM	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				

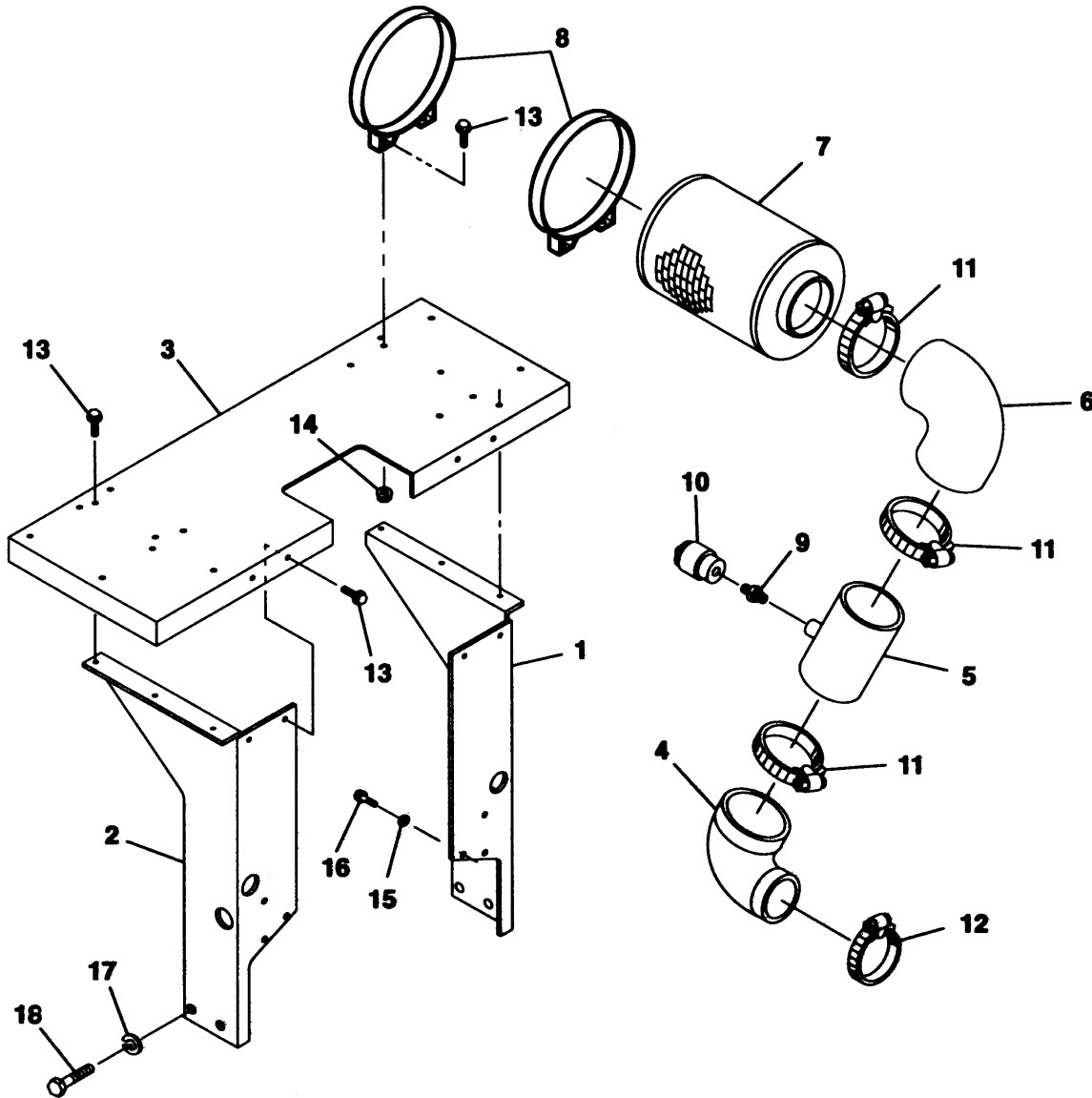
External Engine Parts



External Engine Parts

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-1508	1	Adapter, Pipe (M27 to 3/4")	15	850-2010	1	Washer, Lock – Spring (M10)
2	505-0102	1	Nipple, Close (3/4" x 1-3/8")	16	800-2088	1	Screw, Cap – Hex Head (M10 x 35mm)
3	504-0171	1	Valve, Shutoff				
4	505-0324	1	Nipple, Half (3/4" x 2")	17	856-0010	1	Washer, Lock – W/ET (M10)
5	416-0639	2	Cable, Battery	18	332-2634	8	Clamp, J
6	416-0446	1	Cable, Jumper	19	800-2110	2	Screw, Cap – Hex Head (M12 x 20mm)
7	319-2236	1	Bracket, Pilot Solenoid				
8	402-0610	2	Isolator, Vibration	20	416-0680	1	Cable, Starter
9	307-2621-02	1	Solenoid, Pilot (24 Volt) (K4)	21	332-0941	1	Tie, Cable
10	193-0465	2	Sender, Oil Temperature (E4)	22	800-2085	7	Screw, Cap – Hex Head (M10 x 20mm)
11	870-0212	4	Nut, Locking – Flange (1/4-20)	23	526-2140	2	Washer, Flat (M12)
12	812-0067	2	Screw, Machine – Round Head (#6-32 x 7/8")	24	526-2120	7	Washer, Flat (M10)
13	870-0183	2	Nut, Locking – Flange W/ET (#6-32)	25	501-0522	1	Line, Flex Fuel (Fuel In)
14	309-0269	1	Switch, Low Engine Temperature (S4)	26	501-0520	1	Line, Flex Fuel (Fuel Out)

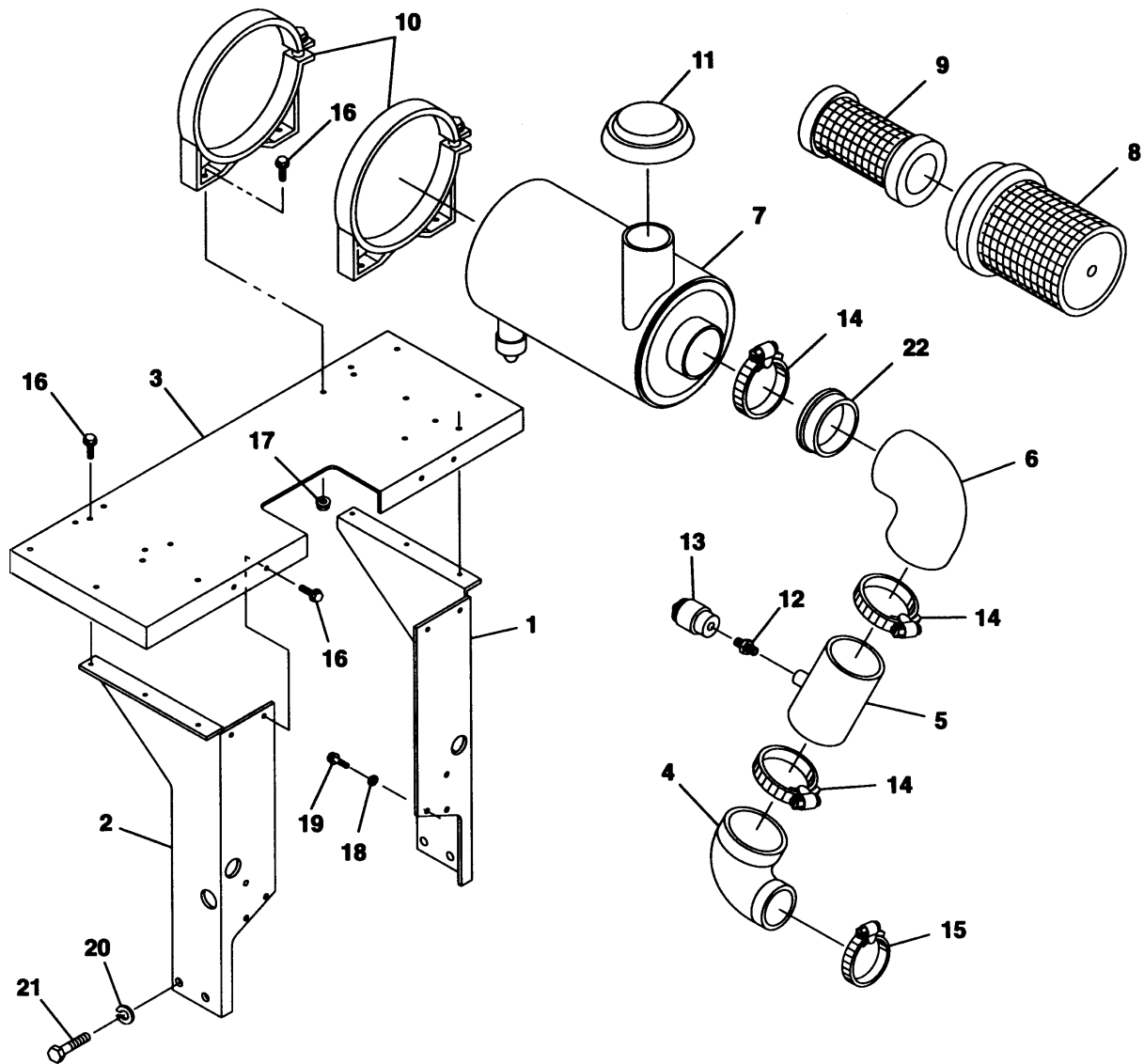
Air Cleaner Standard



D041

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3020	1	Support, Side – Right Side	10	140-1548	2	Indicator, Service
2	140-3026	1	Support, Side – Left Side	11	503-1870-14	6	Clamp, Hose
3	140-3018	1	Tray, Support	12			Clamp, Hose
4			Elbow, Reducing – 90°		503-1870-10	2	DFHA, DFHB Spec A-C,
	503-2017	2	DFHA, DFHB Spec A-C,				DFHC Spec A, B
			DFHC Spec A, B		503-1870-12	2	DFHC Spec C, DFHD Spec
	503-2102	2	DFHC Spec C, DFHD				A
			Spec A	13	821-5003-03	18	Screw, Self-Locking – Hex
5	140-2508	2	Tube, Air Inlet				Washer Head (5/16-18 x
6	503-0970	2	Elbow, 90°				3/4")
7			Cleaner, Air (No Replaceable	14	870-0550-07	8	Nut, Hex Flange (5/16-18)
			Element)	15	526-2140	4	Washer, Flat (M12)
	140-2501	2	DFHA, DFHB Spec A-C,	16	800-3017-52	4	Screw, Cap – Hex Head
			DFHC Spec A, B				(M12 x 1.75 x 20mm)
	140-3163	2	DFHC Spec C, DFHD	17	850-2020	4	Washer, Lock – Spring (M20)
			Spec A	18	800-2201	4	Screw, Cap – Hex Head
							(M20 x 2.5 x 35mm)
8	140-2502	4	Band, Mounting				
9	140-1260	2	Fitting, Service Indicator				

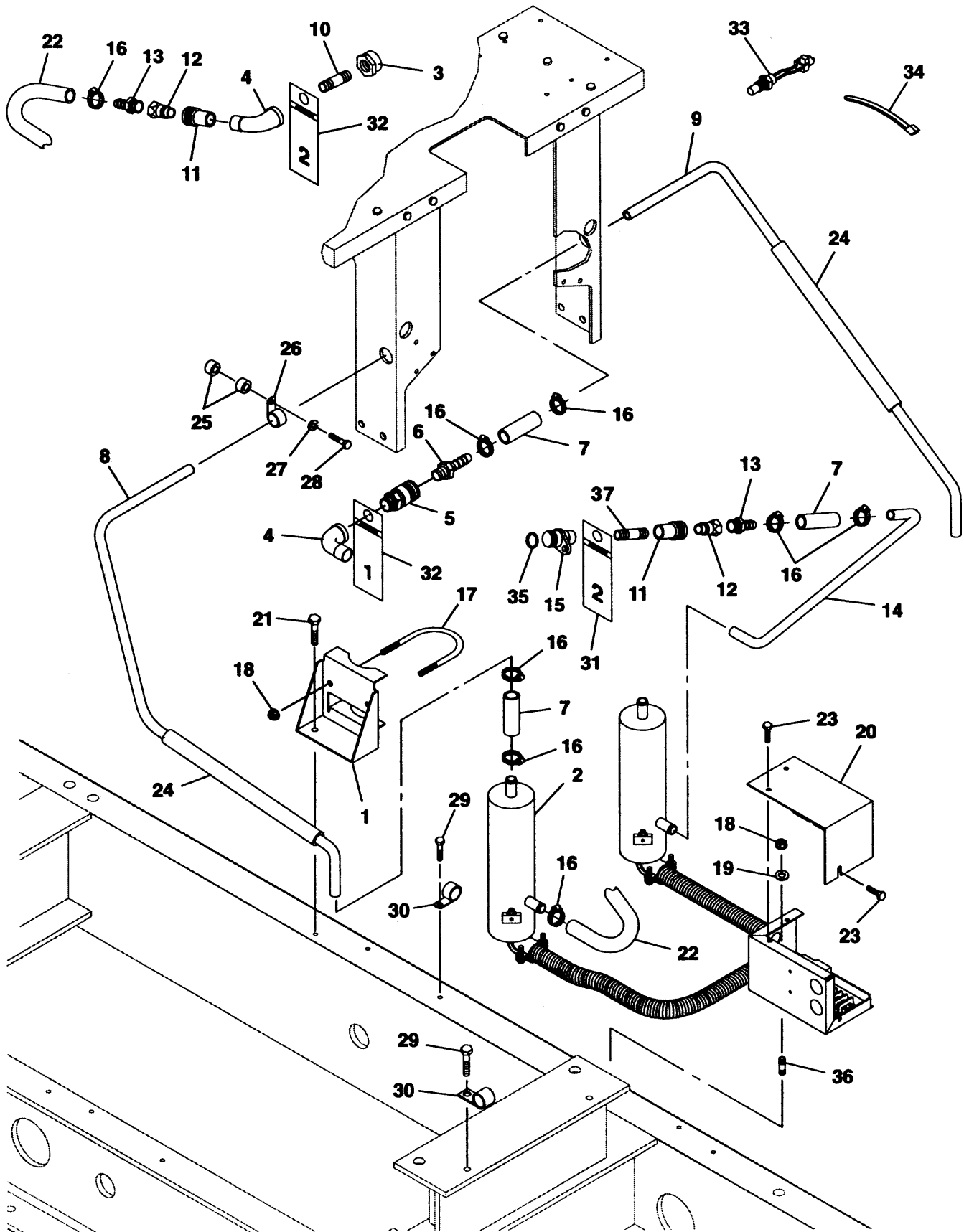
Air Cleaner Heavy Duty



D036

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3020	1	Support, Side – Right Side	13	140-1548	2	Indicator, Service
2	140-3026	1	Support, Side – Left Side	14	503-1870-14	6	Clamp, Hose
3	140-3018	1	Tray, Support	15			Clamp, Hose
4			Elbow, Reducing – 90°		503-1870-10	2	DFHA, DFHB Spec A–C,
	503-2017	2	DFHA, DFHB Spec A–C				DFHC Spec A, B
			DFHC Spec A, B		503-1870-11	2	DFHC Spec C, DFHD Spec
	503-2102	2	DFHC Spec C, DFHD Spec				A
			A	16	821-5003-03	18	Screw, Self-Locking – Hex
5	140-2508	2	Tube, Air Inlet				Washer Head (5/16–18 x
6	503-0970	2	Elbow, 90°				3/4")
7	140-2301	2	Cleaner Assembly, Air	17	870-0550-07	8	Nut, Hex Flange (5/16–18)
			(Includes Element)	18	526-2140	4	Washer, Flat (M12)
8	140-2409	2	Element, Air Cleaner –	19	800-3017-52	4	Screw, Cap – Hex Head
			Primary				(M12 x 1.75 x 20mm)
9	140-2410	2	Element, Air Cleaner – Safety	20	850-2020	4	Washer, Lock – Spring (M20)
10	140-2052	4	Band, Mounting	21	800-2201	4	Screw, Cap – Hex Head
11	140-1545	2	Hood, Air Inlet				(M20 x 2.5 x 35mm)
12	140-1260	2	Fitting, Service Indicator	22	503-2031	2	Insert, Reducer

Water Heater

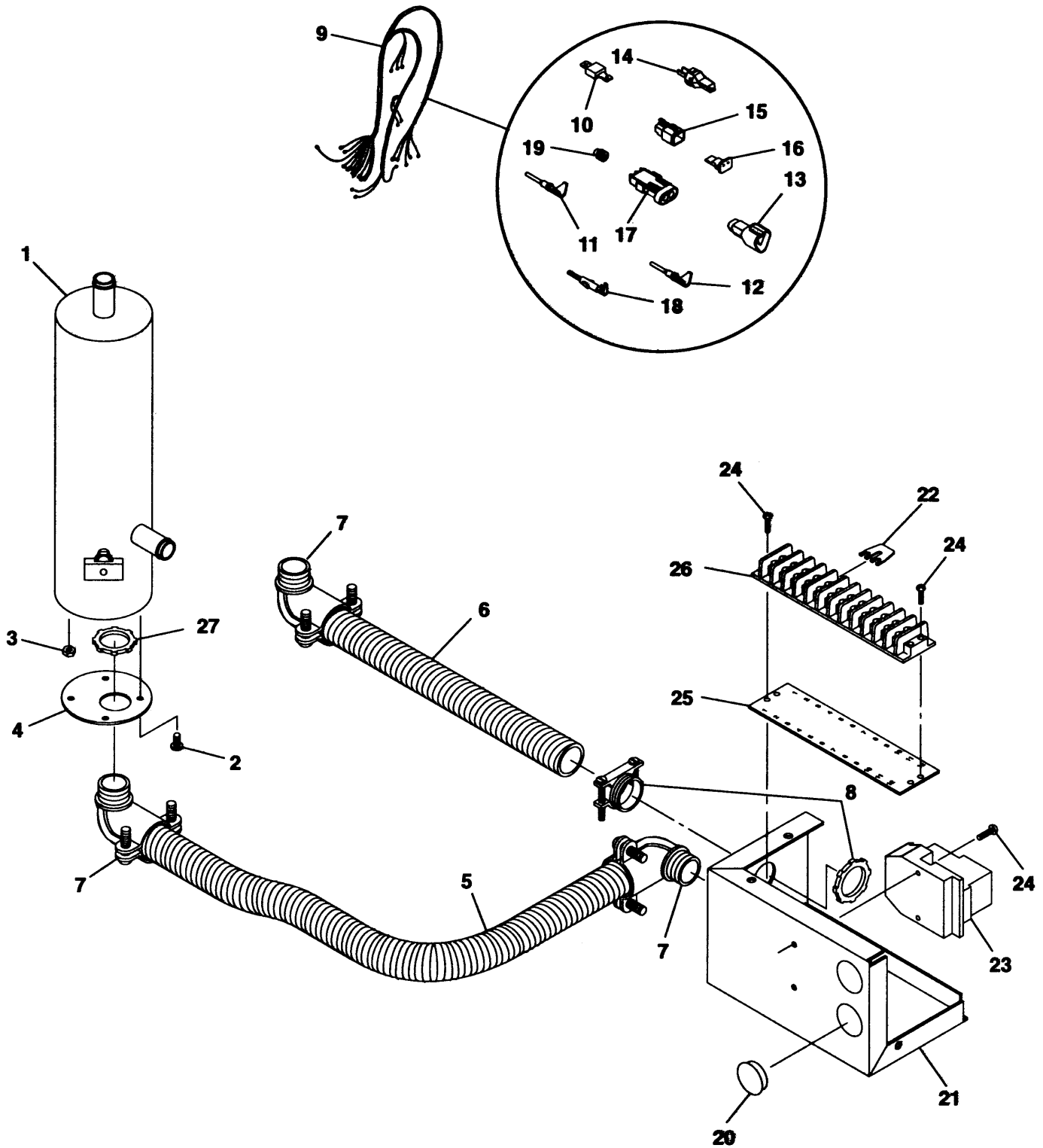


H556,H557

Water Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4546	2	Bracket, Water Heater	22	503-1634-03	1	Hose, Water
2	—	1	Control, Water Heater (See Pages 12 and 13 for Components)	23	821-5002-03	4	(3/4" ID x 12-1/2") Screw, Self-Locking – Hex Washer Head
3	505-0022	1	Bushing, Reducer (1" to 3/4")	24	128-0108	—	(1/4-20 x 1/2") Insulation, Water Tube
4	505-0050	3	Elbow, 90° Street (1/2")	25	370-4038	4	(7/8" ID) – Bulk (Order by the Foot – 7 Feet Required)
5	502-1259	2	Coupler, Water Heater (1/2" OD)	26	518-0548-15	2	Spacer (13/32 ID x 1/2")
6	502-1257	2	Connector, Hose Barb – Water Heater (3/4" OD)	27	850-0114-07	2	Clamp, Hose
7	503-1634-01	6	Hose, Rubber (3/4" ID x 4")	28	800-0054	2	Washer, Lock – Spring (3/8")
8	130-4650	1	Tube, Water Heater	29	821-5004-02	5	Screw, Cap – Hex Head (3/8-16 x 2")
9	130-4649	1	Tube, Water Heater	30	332-2634	10	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")
10	505-0106	1	Nipple, Pipe – Short (1/2" x 1-1/2")	31	098-7182-02	2	Clamp, J
11	502-1260	2	Coupler, Water Heater	32	098-7182-01	2	Tag, Label
12	502-1261	2	Nipple, Water Heater	33	309-0649	1	Tag, Label
13	502-0827	2	Barb, Hose (3/4" OD)	34	332-0941	1	Thermostat
14	130-4651	1	Tube, Water Heater	35	509-0341	1	Tie, Cable (Quantity Used as Required)
15	502-1282	1	Fitting, Tube (Heater)	36	520-0544	2	O-Ring
16	503-2157-01	14	Clamp, Hose	37	505-0078	1	Stud, Generator Mounting
17	155-3021	2	Clamp, Water Heater				Nipple, Pipe (1/2" x 2-1/2")
18	870-0550-09	6	Nut, Hex Flange (3/8-16)				
19	526-0128	2	Washer, Flat (7/16")				
20	319-2815	1	Cover, Terminal Box				
21	821-5004-03	4	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")				

Water Heater Control

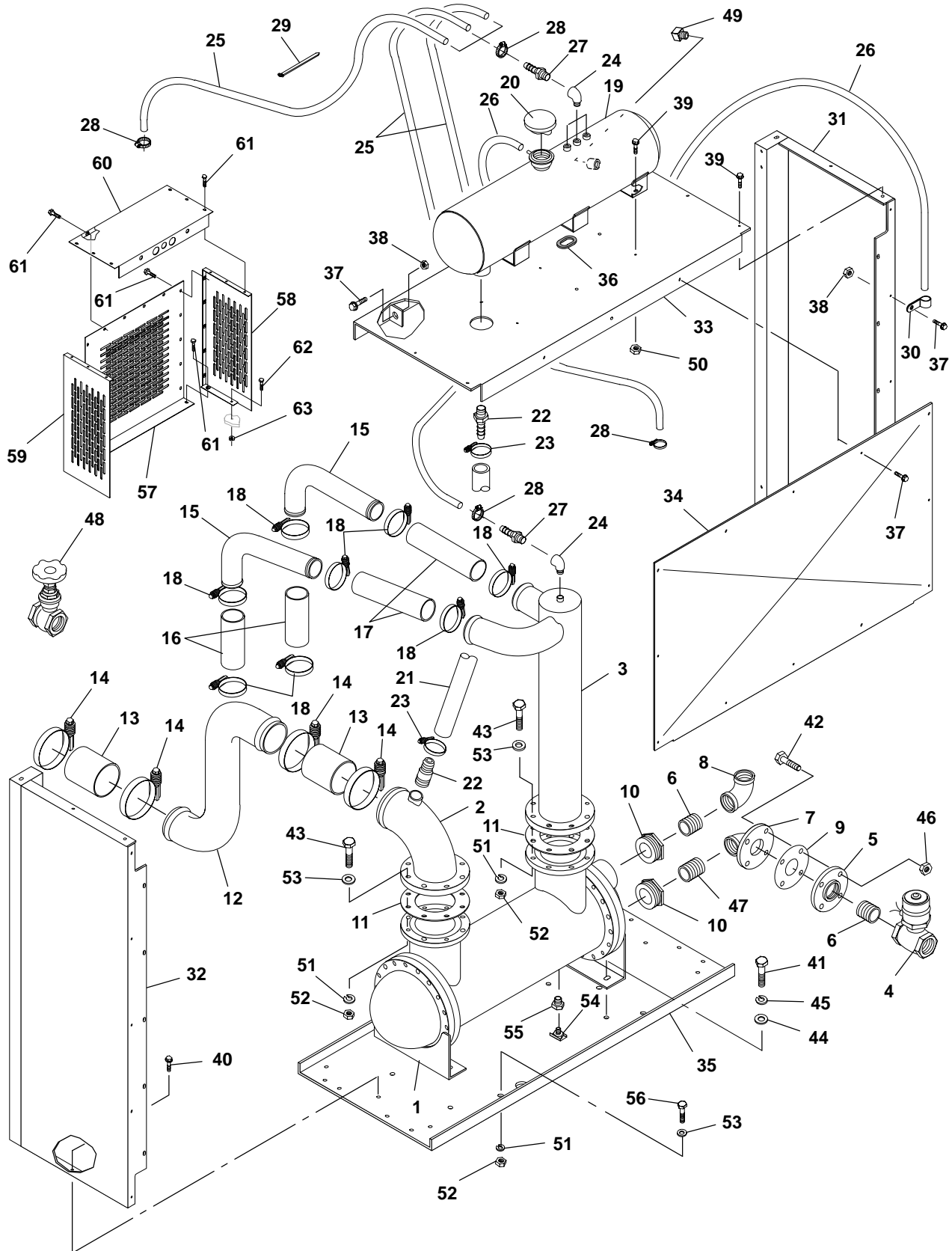


Water Heater Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater, Water	11	323-1491	A/R	* Terminal, Pin
	333-0639-01	2	4990 Watt	12	323-1492	A/R	* Terminal, Socket
	333-0639-02	2	6420 Watt	13	323-1494	A/R	* Connector, Receptacle (3 Pin)
2	815-0539	6	Screw, Machine – Round Head, Cross Recessed W/IT (#8-32 x 5/8")	14	323-1502	1	* Wedge, Receptacle (3 Pin)
3	870-0131	6	Nut, Hex – W/ET (#10-32)	15	323-1504	2	* Connector, Plug (2 Socket)
4	130-4552	2	Cover, Water Heater Control	16	323-1500	2	* Wedge, Plug (2 Socket)
5	338-3335-08	1	Harness, Water Heater – 42" (K11-7, TB1-10,11,12 to HTR-4,3,2, HTR-GND) (Includes Two 90° Conduit Connector – Ref No. 7)	17	323-1652	1	* Plug (2 Pin)
				18	323-1718	A/R	* Terminal, Pin
				19	323-1576	2	* Seal, Cable
				20	517-0138-02	2	Plug, Hole (1" OD)
6	338-3335-07	1	Harness, Water Heater – 18" (TB1-1,2,3 K11-8 to HTR-GND, HTR-2,3,4) (Includes One 90° Conduit Connector – Ref No. 7)	21	319-2814	1	Box, Terminal – Water Heater
				22	332-3440	2	Jumper, Terminal
				23	307-2859	1	Relay, Power – 24V, 50/60Hz (25 AMP @ 240 VAC, 20 AMP @ 277 VAC)
7	331-0554	3	Conduit Connector – 90° (3/4")	24	815-0447	4	Screw, Machine – Round Head, Cross Recessed W/IT (#8-32 x 3/4")
8	331-0042	1	Connector, Romex (3/4")	25	332-1469	1	Strip, Marker
9	338-3463	1	Harness, Engine Heater (Includes Parts Marked *)	26	332-1468	1	Block, Terminal – 12 Place (TB1)
10	357-0030	1	* Rectifier, Silicon (6 Amp) (CR1)	27	331-0555	3	Nut, Connector Lock (3/4-14)

* Parts Included in 338-3463 Engine Heater Harness

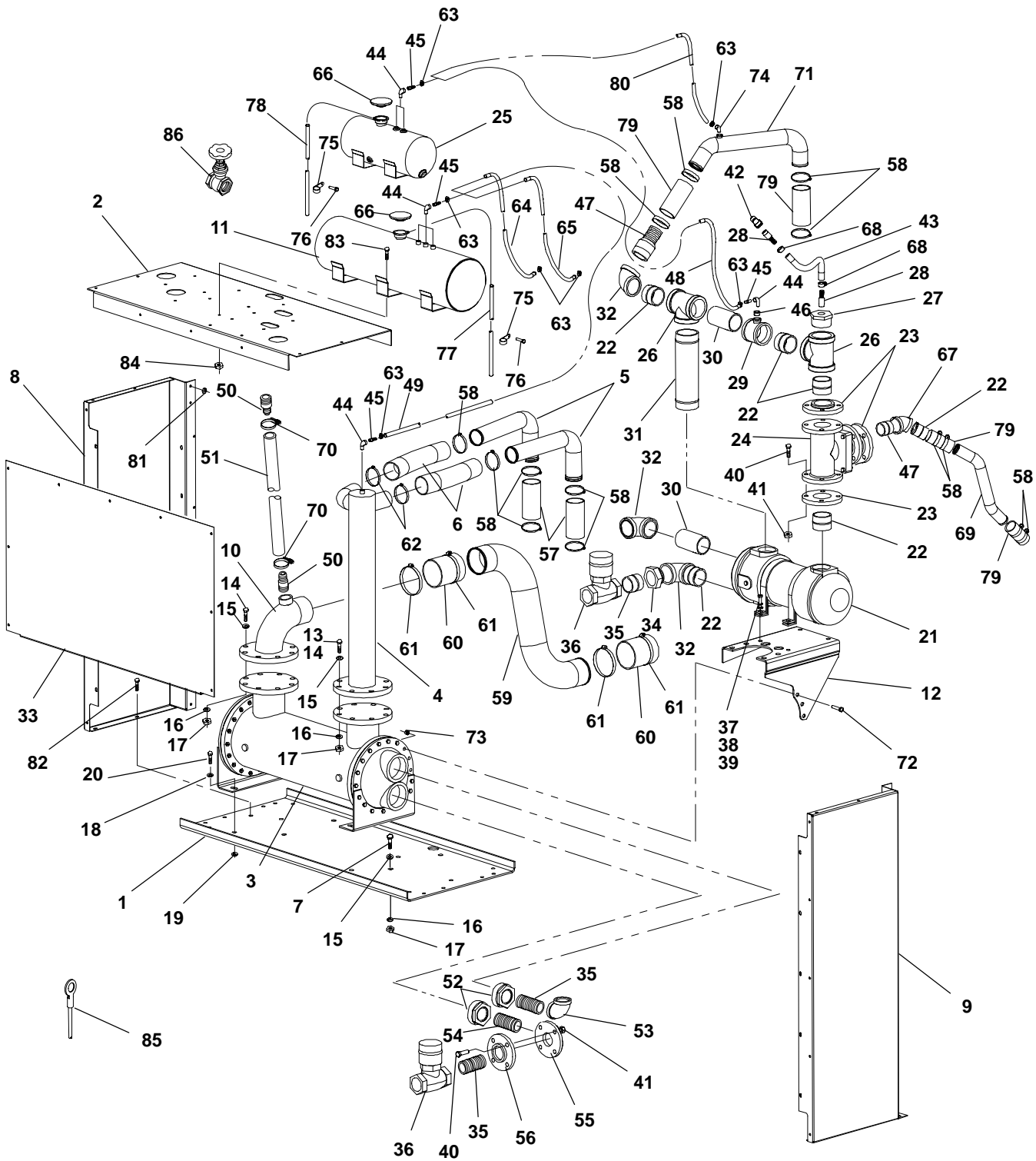
Heat Exchanger DFHA, DFHB, DFHC



Heat Exchanger DFHA, DFHB, DFHC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3772	1	Exchanger, Heat	35	130-3770	1	Base, Heat Exchanger
2	130-3773	1	Elbow, Outlet – Heat Exchanger	36	508-1090	1	Grommet
3	130-3774	1	Manifold, Inlet – Heat Exchanger	37	821-5003-03	15	Screw, Self-Locking, Hex Washer Head (5/16" x 3/4")
4	307-2711	1	Valve, Solenoid (24V)	38	870-0550-07	6	Nut, Flange Head (5/6")
5	155-0899	1	Flange, Companion (2-1/2")	39	821-5004-02	13	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")
6	505-0103	2	Nipple, Pipe (2-1/2" x 2-1/2")	40	821-0033	6	Screw, Locking – Hex Washer Head (7/16-14 x 3/4")
7	505-1442	1	Elbow, 90° Flange	41	800-0133	4	Screw, Cap – Hex Head (5/8-11 x 1-3/4")
8	505-0044	1	Elbow, 90° (2-1/2")	42	800-0135	4	Screw, Cap – Hex Head (5/8-11 x 2-1/4")
9	155-2514	1	Gasket, Flange (2-1/2" Ring)	43	800-0160	16	Screw, Cap – Hex Head (3/4-10 x 3-1/4")
10	505-1441	2	Bushing, Hex (4" x 2-1/2")	44	526-0112	4	Washer, Flat (5/8")
11	155-2503	2	Gasket, Exhaust (6" ID)	45	850-0070	4	Washer, Lock – Spring (5/8")
12	130-4571	1	Tube, Outlet – Heat Exchanger	46	862-0007	4	Nut, Hex (5/8-11)
13	503-1726	2	Hose, Radiator (5" ID x 6")	47	505-0114	1	Nipple, Short (2-1/2" x 3")
14	503-1872-10	4	Clamp, Hose	48	504-0175	1	Valve, Gate (2-1/2")
15	130-4570	2	Tube, Inlet – Heat Exchanger	49	505-0054	1	Plug, Square Head (1/4")
16	503-1762	2	Hose, Coolant (3" ID x 8-1/2")	50	870-0550-09	6	Nut, Flange Head (3/8-16)
17	503-1727	2	Hose, Coolant (3" ID x 10")	51	850-0079	20	Washer, Lock (3/4")
18	503-1872-05	8	Clamp, Hose	52	862-0008	20	Nut, Hex (3/4-10)
19	130-3766	1	Tank, Expansion	53	526-0027	24	Washer, Flat (3/4")
20	130-0449	1	Cap, Expansion Tank	54	504-0028	1	Cock, Drain (3/8")
21	503-1764	1	Hose, Flex (1-1/2" ID x 30")	55	505-0019	1	Bushing, Reducer (1/2" to 3/8")
22	505-1429	2	Nipple, Combination (1-1/2")	56	800-0158	4	Screw, Cap – Hex Head (3/4-10 x 2-3/4")
23	503-1872-02	2	Clamp, Hose	57	130-3715	1	Cover, Damper Guard
24	505-0011	4	Elbow, 90° Street (1/4")	58	130-3714-01	1	Guard, Damper – Right Side
25	503-1620	–	Hose – Bulk (3/8" ID) (Order by the Foot – 14 Feet Required)	59	130-3714-02	1	Guard, Damper – Left Side
26	503-1418	–	Hose – Bulk (1/4" ID) (Order by the Foot – 9 Feet Required)	60	130-3713	1	Guard, Damper – Top
27	502-1162	4	Connector, Hose – Barbed (For 3/8" ID Hose)	61	821-5002-03	22	Screw, Hex Head (1/4-20 x 1/2")
28	503-0685	7	Clamp, Hose	62	821-5004-03	2	Screw, Hex Head (3/8-16 x 1")
29	332-1389	1	Tie, Cable (Quantity Used As Required)	63	870-0281	2	Nut, Hex – Locking (3/8-16)
30	518-0548-08	4	Clamp, Hose				
31	130-3592-02	1	Guard, Radiator – Right Side				
32	130-3592-01	1	Guard, Radiator – Left Side				
33	130-3769	1	Panel, Top – Heat Exchanger				
34	130-3767	1	Panel, Front – Heat Exchanger				

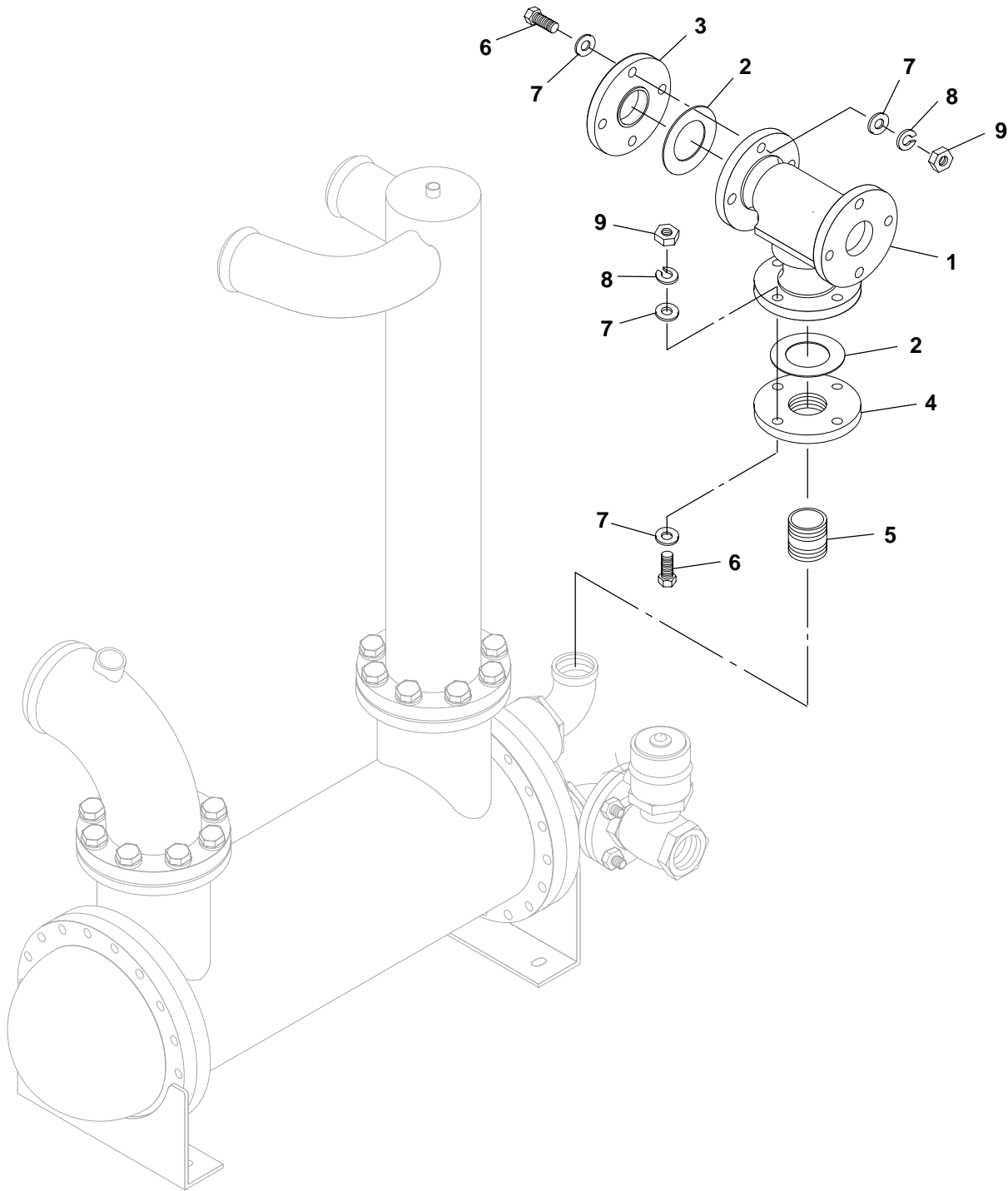
Heat Exchanger DFHD



Heat Exchanger DFHD

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3770	1	Base, Heat Exchanger	43	503-2114	1	Hose, Radiator
2	130-3769	1	Panel, Heat Exchanger – Top	44	505-0011	7	Elbow, Street – 90° (1/4)
3	130-3772	1	Exchanger, Heat	45	502-1162	7	Fitting, Barbed Hose
4	130-3774	1	Manifold, Heat Exchanger	46	505-0020	1	Bushing, Reducer (3/4 x 1/4)
5	130-4570	2	Tube, Heat Exchanger	47	505-1549	2	Adapter, Pipe (Male)
6	503-1727	2	Hose, Coolant	48	503-2112	1	Hose, Heat Exchanger
7	800-0158	6	Screw, Cap – Hex Head (3/4-10 x 2.75)	49	503-2113	1	Hose, Heat Exchanger
8	130-3592-01	1	Guard, Radiator	50	505-1429	2	Nipple, Combination
9	130-3592-02	1	Guard, Radiator	51	503-1729	1	Hose, Radiator
10	130-3773	1	Elbow, Heat Exchanger	52	505-1441	2	Bushing, Reducer (4 x 2-1/2)
11	130-3766	1	Tank, Expansion	53	505-0044	1	Elbow, Pipe
12	130-5011-02	1	Bracket, Flange Mounting	54	505-0114	1	Nipple, Pipe (2-1/2 x 3.00)
13	800-0310-97	4	Screw, Cap – Hex Head (Grade 5) (.750-10 x 3.50)	55	505-1442	1	Elbow – 90° – Flange
14	800-0160	12	Screw, Cap – Hex Head (.750-10 x 3.25)	56	155-0899	1	Flange, Companion (2-1/2)
15	526-0027	22	Washer, Flat (3/4)	57	503-1762	2	Hose, Coolant (3 x 8.5)
16	850-0079	22	Washer, Lock (3/4)	58	503-1872-05	14	Clamp, Hose
17	862-0008	22	Nut, Hex (.75-10)	59	130-4571	1	Tube, Heat Exchanger
18	526-0399-28	4	Washer, Flat (Hardened) (5/8)	60	503-1726	2	Hose, Radiator (5 x 6)
19	850-0114-10	4	Washer, Lock – Split (5/8)	61	503-1872-09	4	Clamp, Hose
20	800-0310-79	4	Screw, Cap – Hex Head (Grade 5) (.625-11 x 1.75)	62	503-1872-06	2	Clamp, Hose
21	130-4982	1	Exchanger, Heat	63	503-0685	10	Clamp, Hose
22	505-0382	6	Nipple, Pipe (3 x 2.63)	64	503-2115	1	Hose, Heat Exchanger (3/8 ID)
23	505-0601	3	Flange, Pipe (3")	65	503-2116	1	Hose, Heat Exchanger (3/8 ID)
24	309-0665	1	Valve, Thermostatic	66	130-0449	2	Cap, Radiator
25	130-3969	1	Tank, Expansion	67	505-0605	1	Elbow, Pipe – 45° (3")
26	505-1547	2	Tee, Pipe	68	503-1872-01	2	Clamp, Hose
27	505-0812	1	Bushing, Reducer (3 x 3/4)	69	130-5020-02	1	Tube, Water
28	505-0758	1	Adapter, Pipe (3/4 x 3/4)	70	503-1872-02	2	Clamp, Hose
29	505-1553	1	Elbow, Pipe	71	130-5039-02	1	Tube, Water
30	505-0667	2	Nipple, Pipe (3 x 6.50)	72	800-0310-69	3	Screw, Cap – Hex Head (Grade 5) (.50 x 2.25)
31	505-1548	1	Nipple, Pipe (3 x 16.25)	73	862-0016	3	Nut, Hex (.50-13)
32	505-0453-01	3	Elbow, Pipe	74	502-1146	1	Elbow – 45°
33	130-3767	1	Panel, Heat Exchanger – Front	75	518-0548-08	8	Clamp, Hose
34	505-0607	1	Bushing, Reducer (3 x 2-1/2)	76	821-5003-03	20	Screw, Hex Head (5/16-18 x .75)
35	505-0103	3	Nipple, Pipe (2-1/2 x 2-1/2)	77	503-2123	1	Hose, Heat Exchanger
36	307-2711	2	Valve, Solenoid (24V)	78	503-2124	1	Hose, Heat Exchanger
37	526-0219	4	Washer, Flat (1/2)	79	503-2127	4	Hose, Heat Exchanger
38	850-0060	4	Washer, Lock – Split (1/2)	80	503-2118	1	Hose, Heat Exchanger
39	800-0310-68	4	Screw, Cap – Hex Head (Grade 5) (.50-13 x 2.00)	81	870-0550-07	2	Nut, Flange Head (5/6")
40	800-0310-81	16	Screw, Cap – Hex Head (Grade 5) (.625-11 x 2.25)	82	821-0033	6	Screw, Self-Locking – Hex Head (7/16-14 x .75)
41	862-0007	16	Nut, Hex (.63-11)	83	821-5004-02	10	Screw, Hex Head (3/8-16 x .75)
42	505-0287	1	Elbow, Street – 45° (3/4)	84	870-0550-09	10	Nut, Hex Flange Head
				85	226-4115	2	Lead
				86	504-0175	2	Valve, Gate (2-1/2)

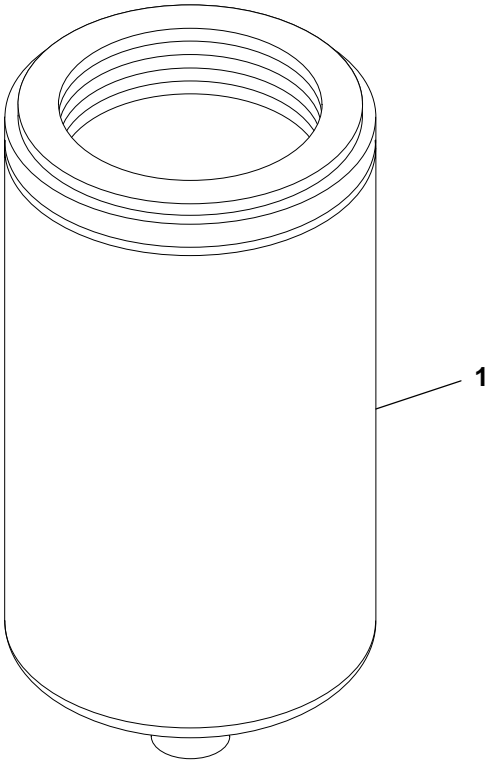
Thermostatic Valve DFHA, DFHB, DFHC



E045

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	309-0607	1	Valve, Thermostatic	6	800-0138	8	Screw, Cap – Hex Head (5/8–11 x 3")
2	155-2514	2	Gasket, Flange (2-1/2" Ring)	7	526-0112	16	Washer, Flat (5/8")
3	505-1440	1	Flange, Blind	8	850-0070	8	Washer, Lock – Spring (5/8")
4	155-0899	1	Flange, Companion (2-1/2")	9	862-0007	8	Nut, Hex (5/8–11)
5	505-0103	1	Nipple, Pipe (2-1/2" NPT x 2-1/2")				

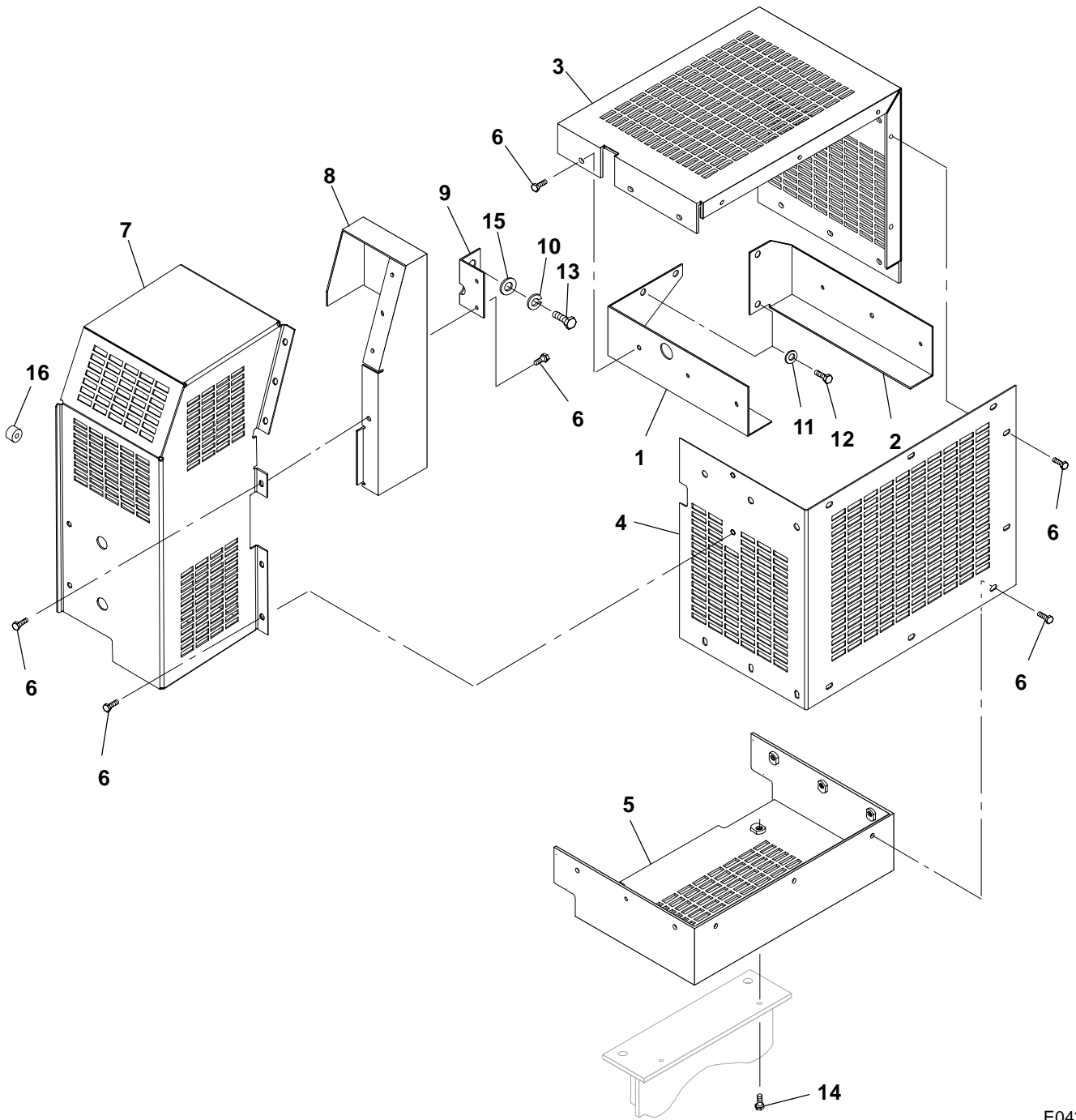
Fuel/Water Separator



C127

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2228	1	Separator, Fuel/Water				

Remote Radiator

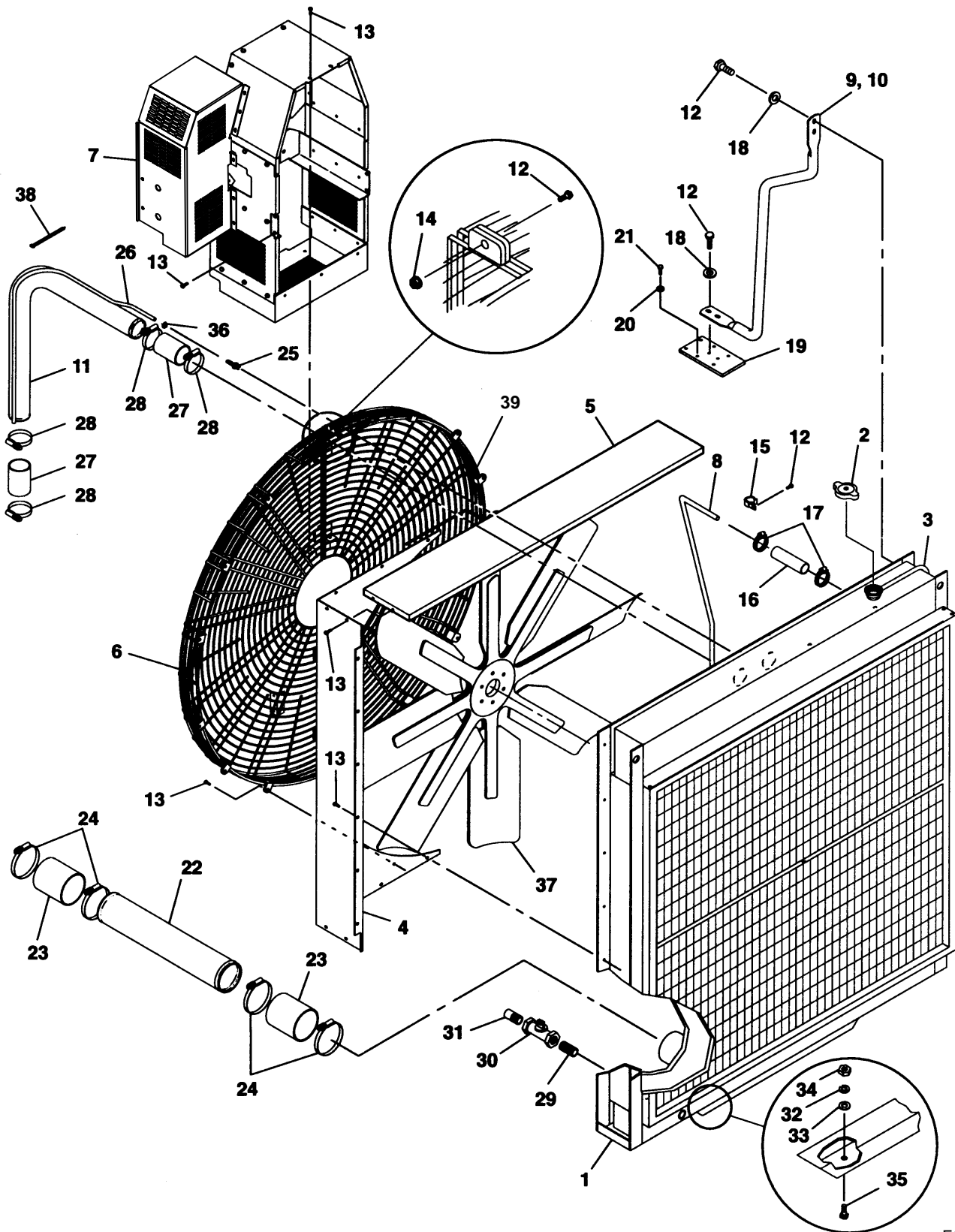


E043

Remote Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Bracket, Guard – Left Side	7	232-4001	1	Guard, Alternator
	130-4626	1	DFHA, DFHB, DFHC	8	232-3938	1	Guard, Alternator – Remote Radiator
	130-5025	1	DFHD				
2			Bracket, Guard – Right Side	9	232-3939	1	Bracket, Guard Alternator
	130-4625	1	DFHA, DFHB, DFHC	10	850-2020	2	Washer, Lock – Spring (M20)
	130-5024	1	DFHD	11	526-2140	4	Washer, Flat (M12)
3			Guard, Top – Remote Radiator	12	800-3017-52	4	Screw, Cap – Hex Head (M12 x 1.75 x 20mm)
	130-4573	1	DFHA, DFHB, DFHC	13	800-2201	2	Screw, Cap – Hex Head (M20 x 2.5 x 35mm)
	130-5022	1	DFHD				
4			Guard, Front – Remote Radiator	14	821-5004-03	2	Screw, Hex Head (3/8-16 x 1")
	130-4574	1	DFHA, DFHB, DFHC	15	526-0027	2	Washer, Flat (3/4")
	130-5023	1	DFHD	16	130-3660-01	1	Spacer –13/16" Thick (Replaces Idler Mounting Bracket)
5			Guard, Belt – Bottom				
	130-4477	1	DFHA, DFHB, DFHC				
	130-5021	1	DFHD				
6	821-5003-03	28	Screw, Hex Head (5/16-18 x 3/4")				

Radiator
40°C Ambient
DFHA, DFHB, DFHC



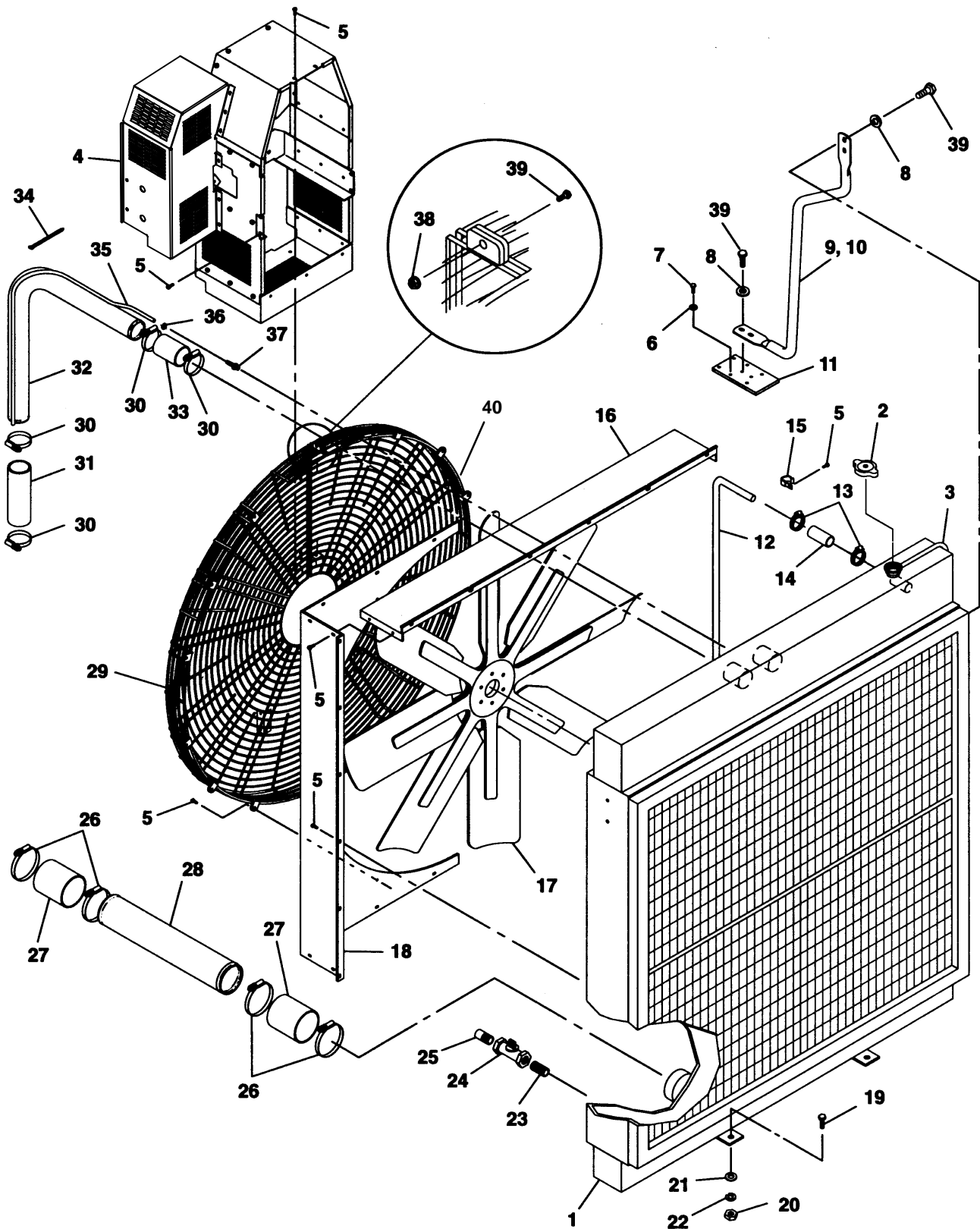
E082

**Radiator
40°C Ambient
DFHA, DFHB, DFHC**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4436	1	Radiator (Includes Radiator Grille, Radiator Duct Adapter, Three Radiator Overflow Hose Clamps, and Parts Marked *)	18	526-0240	8	Washer, Flat (3/8")
	130-4362	1	* Kit, Repair – Radiator Sight Gauge (Not Illustrated)	19	130-4503	2	Plate, Radiator Support
2	130-3588	1	* Cap, Radiator – 7 PSI	20	526-0399-62	8	Washer, Flat (M10)
3	503-1418	–	* Hose, Radiator Overflow – Bulk (1/4" ID) (Order by the Foot – 7 Feet Required)	21	800-2087	10	Screw, Cap – Hex Head (M10 x 30mm)
4	130-4474	2	Wrapper, Fan Shroud	22	130-4457	1	Tube, Radiator Outlet
5	130-4473	2	Shroud, Fan	23	503-1726	2	Hose, Radiator (5" ID x 6")
6	130-4439-01	1	Guard, Fan – Left Side	24	503-1872-09	4	Clamp, Hose
7	—	1	Guard Assembly, Belt (See Page 28 for Components)	25	502-1162	2	Fitting, Barbed Hose
8	130-4458	1	Tube, Radiator Fill	26	503-1620	–	Hose, Bypass – Bulk (3/8" ID) (Order by the Foot – 11 Feet Required)
9	130-4493	1	Support, Radiator – Right Side (Illustrated)	27	503-1728	4	Hose, Radiator (3" ID x 5-1/2")
10	130-4494	1	Support, Radiator – Left Side	28	503-1872-05	8	Clamp, Hose
11	130-4456	2	Tube, Radiator Inlet	29	505-0102	1	Nipple, Pipe
12	821-5004-03	16	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")	30	504-0171	1	Valve, Shutoff (3/4")
13	821-5003-03	52	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")	31	505-0324	1	Nipple, Half (3/4-14)
14	870-0550-09	6	Nut, Hex Flange (3/8-16)	32	850-0079	2	Washer, Spring – Lock (3/4")
15	518-0548-20	2	Clip, J	33	526-0027	2	Washer, Flat (3/4")
16	503-1634	2	Hose, Rubber (1" ID x 4")	34	862-0008	2	Nut, Hex (3/4-10)
17	503-1872-01	4	Clamp, Hose	35	800-0156	2	Screw, Cap – Hex Head (3/4-10 x 2-1/4")
				36	503-0685	4	Clamp, Hose
				37	130-5210	1	Fan, Engine
				38	332-3008	1	Tie, Cable (Quantity Used As Required)
				39	130-4439-02	1	Guard, Fan – Right Side

* Parts Included in 130-4436 Radiator

Radiator
50°C Ambient
DFHA, DFHB, DFHC



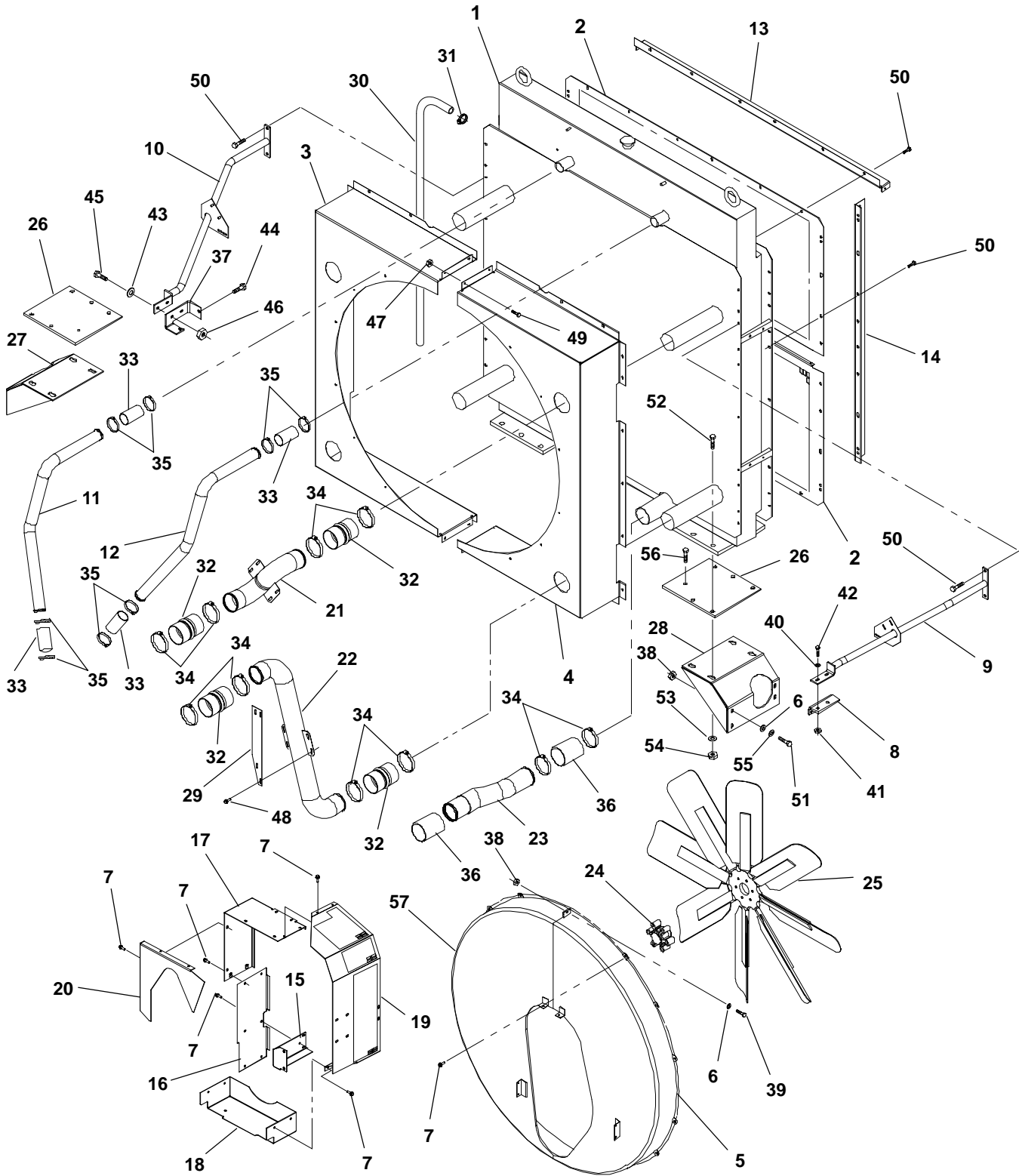
E074

Radiator
50°C Ambient
DFHA, DFHB, DFHC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4490	1	Radiator (Includes Radiator Grille, Radiator Duct Adapter, Three Radiator Overflow Hose Clamps, and Parts Marked *)	19	800-0156	4	Screw, Cap – Hex Head (3/4-10 x 2-1/4")
	130-4362	1	* Kit, Repair – Radiator Sight Gauge (Not Illustrated)	20	862-0008	3	Nut, Hex (3/4-10)
2	130-3588	1	* Cap, Radiator	21	526-0027	4	Washer, Flat (3/4")
3	503-1418	–	* Hose, Radiator Overflow – Bulk (1/4" ID) (Order by the Foot – 8 Feet Required)	22	850-0079	3	Washer, Spring – Lock (3/4")
4	—	1	Guard Assembly, Belt (See Page 28 for Components)	23	505-0102	1	Nipple, Pipe
5	821-5003-03	65	Screw, Self-Locking – Hex Washer Head (5/16" x 3/4")	24	504-0171	1	Valve, Shutoff (3/4")
6	526-0399-62	8	Washer, Flat (M10)	25	505-0324	1	Nipple, Half (3/4-14)
7	800-2087	8	Screw, Cap – Hex Head (M10 x 30mm)	26	503-1872-09	4	Clamp, Hose
8	526-0240	8	Washer, Flat (3/8")	27	503-1726	2	Hose, Radiator (5" ID x 6")
9	130-4495	1	Support, Radiator – Right Side (Illustrated)	28	130-4457	1	Tube, Radiator Outlet
10	130-4496	1	Support, Radiator – Left Side	29	130-4439-01	1	Guard, Fan – Left Side
11	130-4503	2	Plate, Radiator Support	30	503-1872-05	8	Clamp, Hose
12	130-4499	1	Tube, Radiator Fill	31	503-1727	2	Hose, Radiator (3" ID x 10")
13	503-1872-02	4	Clamp, Hose	32	130-4456	2	Tube, Radiator Inlet
14	503-1863	2	Hose, Radiator (1-1/2" ID x 4")	33	503-1728	2	Hose, Radiator (3" ID x 5-1/2")
15	518-0633	2	Clip, J	34	332-3008	1	Tie, Cable (Quantity Used As Required)
16	130-4498	2	Shroud, Fan	35	503-1620	–	Hose, Bypass – Bulk (3/8" ID) (Order by the Foot – 12 Feet Required)
17	130-5210	1	Fan, Engine	36	503-0685	4	Clamp, Hose
18	130-4497	2	Wrapper, Fan Shroud	37	502-1162	2	Fitting, Barbed Hose
				38	870-0550-09	6	Nut, Hex Flange (3/8-16)
				39	821-5004-03	16	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")
				40	130-4439-02	1	Guard, Fan – Right Side

* Parts Included in 130-4490 Radiator

Radiator DFHD

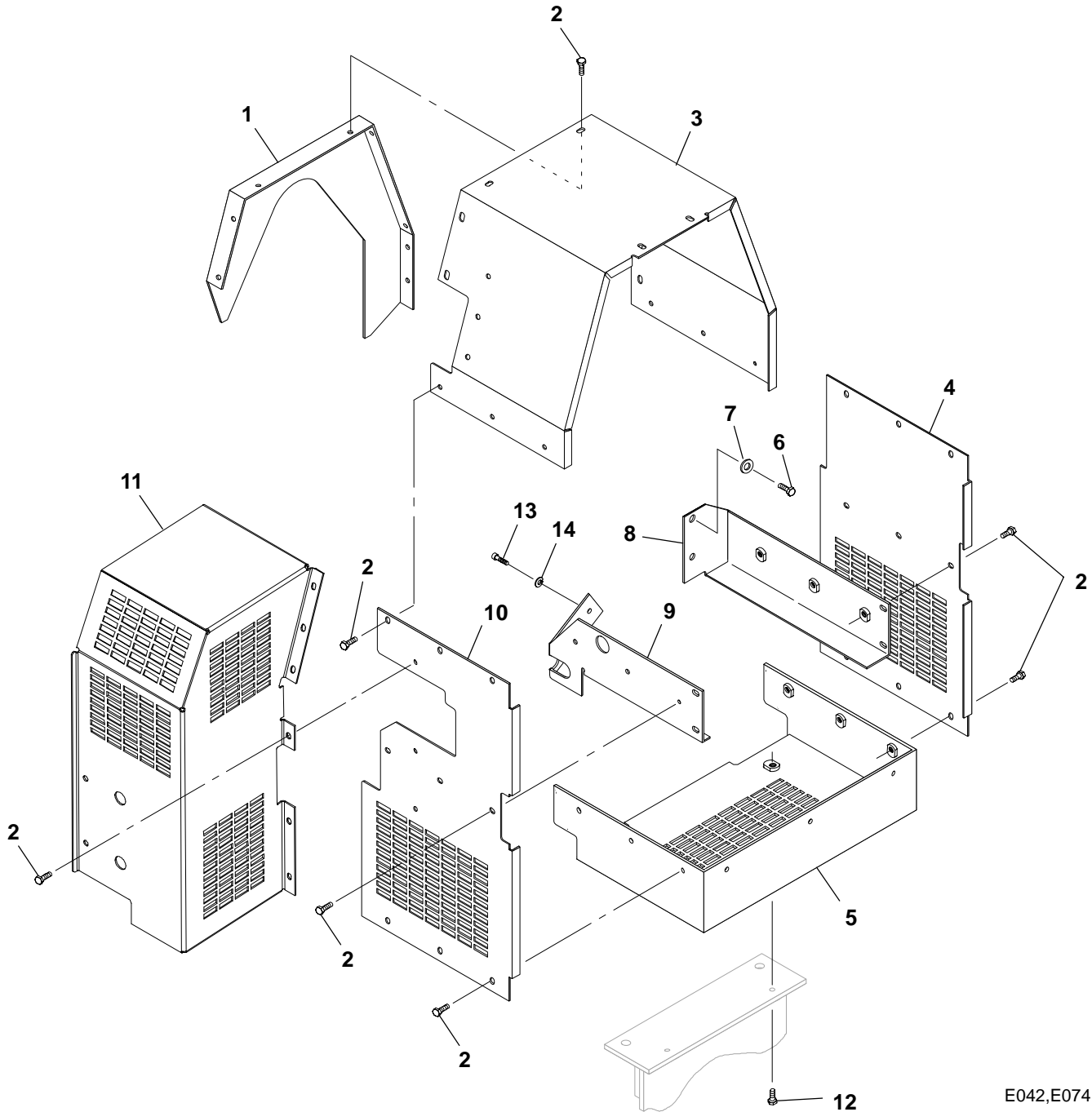


E082

Radiator DFHD

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4894	1	Radiator	31	503-1872-01	2	Clamp, Hose
2	130-4927-02	2	Guard, Radiator	32	503-2130	8	Hose, Hump
3	130-4890-02	1	Shroud, Fan (Right Side)	33	503-2132	4	Hose, Radiator (2.75 x 5.00)
4	130-4889-02	1	Shroud, Fan (Left Side)	34	503-1872-07	18	Clamp, Hose
5	130-4893-03	1	Guard, Fan (Left Side)	35	503-1872-04	8	Clamp, Hose
6	526-0219	42	Washer, Flat (1/2)	36	503-2135	2	Hose, Radiator
7	821-5003-03	28	Screw, Hex Head (5/16-18 x .75)	37	123-2142-02	1	Bracket, Mounting
8	130-4992-02	1	Bracket, Radiator Support	38	862-0005	14	Nut, Hex (1/2")
9	130-4991-02	1	Support, Radiator (Left Side)	39	800-0310-65	2	Screw, Cap - Hex Head (.50-13 x 1.25) (Grade 5)
10	130-4990-02	1	Support, Radiator (Right Side)	40	526-2141	2	Washer, Flat (M12)
11	130-4941-02	1	Tube, Radiator Inlet (Right Side)	41	860-2010	2	Nut, Hex (M12)
12	130-4942-02	1	Tube, Radiator Inlet (Left Side)	42	800-2113	2	Screw, Cap - Hex Head (M12 x 1.75 x 35)
13	130-4988-02	2	Adapter, Duct (Top and Bottom)	43	526-2120	6	Washer, Flat (M10)
14	130-4989-02	2	Adapter, Duct (Sides)	44	800-2086	4	Screw, Cap - Hex Head (M10 x 1.5 x 25)
15	130-4926-02	1	Bracket, Guard	45	800-2087	2	Screw, Cap - Hex Head (M10 x 1.5 x 30)
16	130-4925-02	1	Guard, Belt	46	860-2059	2	Nut, Hex (M10)
17	130-4923-02	1	Guard, Belt	47	860-2008	14	Nut, Hex (M8)
18	130-4924-02	1	Guard, Belt (Bottom)	48	821-6003-02	12	Screw, Hex Head (M8 x 1.25 x 20)
19	232-4019-02	1	Guard, Alternator	49	821-6003-03	4	Screw, Hex Head (M8 x 1.25 x 25)
20	130-5086-02	1	Guard, Belt (Cover)	50	800-2112	48	Screw, Hex Head (M12 x 1.75 x 30)
21	130-4948-02	2	Tube, Radiator Air Inlet	51	800-0094	8	Screw, Hex Head (1/2-13 x 2.00)
22	130-4949-02	2	Tube, Radiator Air Outlet	52	800-0159	8	Screw, Hex Head (3/4-10 x 3.00)
23	130-4943-02	1	Tube, Radiator Outlet	53	800-0114-11	8	Washer, Lock - Split (3/4)
24	130-4944	1	Spacer, Fan	54	862-0008	8	Nut, Hex (.75)
25	130-5210	1	Fan, Engine	55	850-0060	12	Washer, Lock - Split (1/2)
26	130-5015-02	2	Plate, Radiator Support	56	800-0097	4	Screw, Cap - Hex Head (1/2-13 x 2.75)
27	130-5016-02	1	Bracket, Radiator Support (Right Side)	57	130-4893-04	1	Guard, Fan (Right Side)
28	130-5010-02	1	Bracket, Radiator Support (Left Side)				
29	130-5044-02	2	Brace, Air Tubes				
30	503-2131	1	Hose, Radiator Fill				

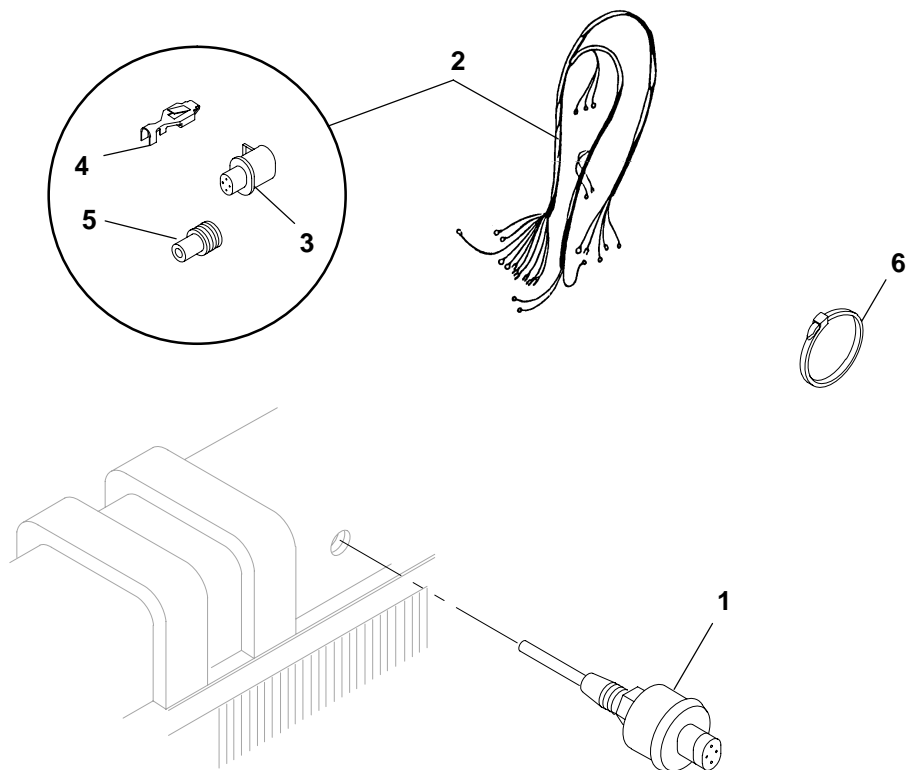
Belt Guard Assembly DFHA, DFHB, DFHC



E042,E074

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4606	1	Guard, Belt Cover	8	130-4481	1	Bracket, Guard – Right Side
2	821-5003-03	32	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")	9	130-4482	1	Bracket, Guard – Left Side
3	130-4476	1	Guard, Belt – Top	10	130-4479	1	Guard, Belt – Left Side
4	130-4478	1	Guard, Belt – Right Side	11	232-4001	1	Guard, Alternator
5	130-4477	1	Guard, Belt – Bottom	12	821-5004-03	2	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")
6	800-3017-52	2	Screw, Cap – Hex Head (M12 x 20mm)	13	800-2057	2	Screw, Cap – Hex Head (M8 x 1.25 x 20mm)
7	526-2140	2	Washer, Flat (M12)	14	850-2008	2	Washer, Lock (M8)

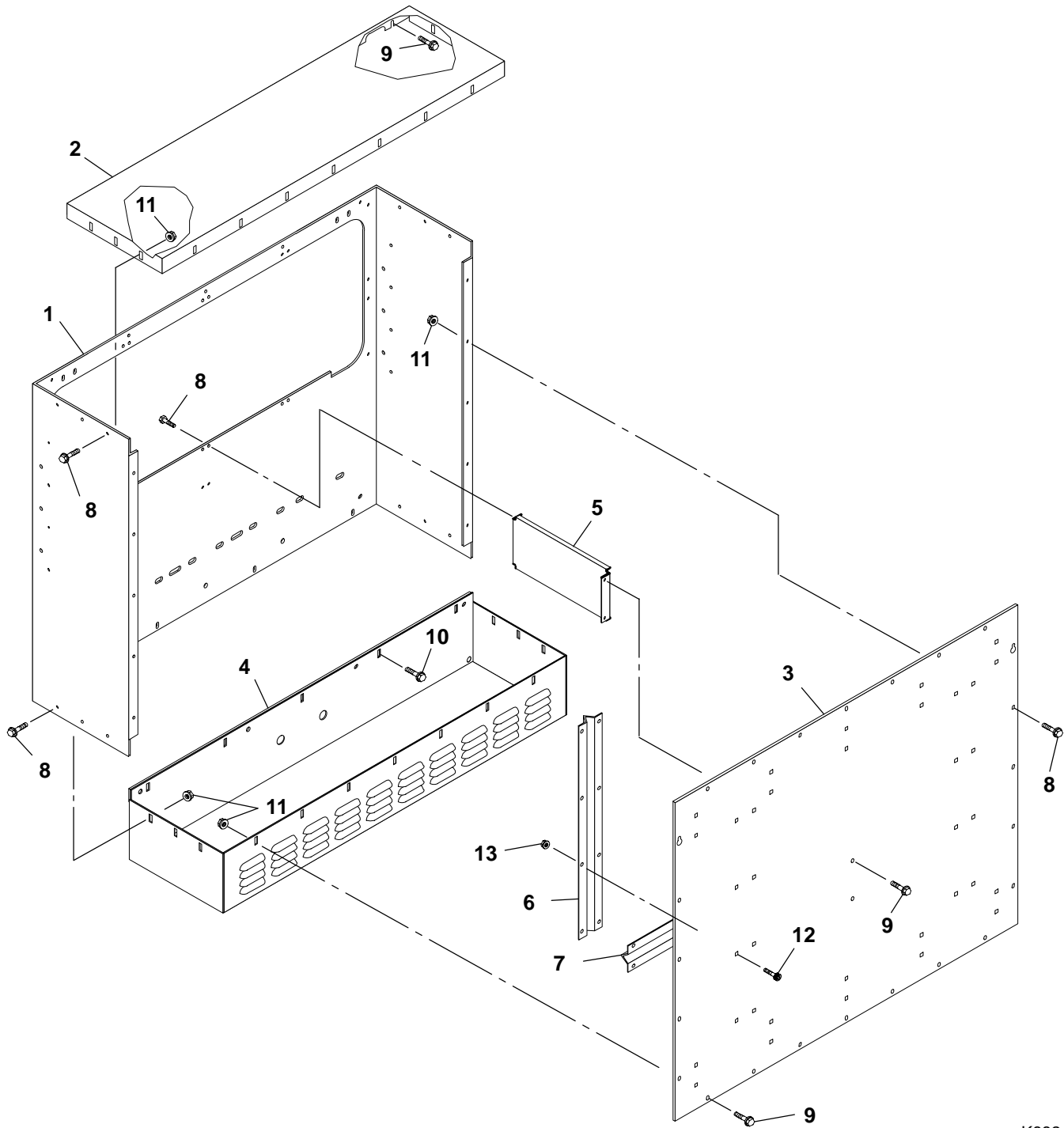
Low Coolant Level Sender



CP01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0468	1	Sender, Low Coolant Level (S7)	5	323-1708	4	*Seal, Cable
2	338-3594	1	Harness, Pigtail (Includes Parts Marked *)	6	332-1389	1	Tie, Cable (Quantity Used as Required)
3	323-1765	1	*Housing, Connector (4 Pin)	* – Parts Included in 338-3594 Pigtail Harness			
4	323-1709	4	*Socket, Contact				

Entrance Box
DFHA, DFHB, DFHC Spec A

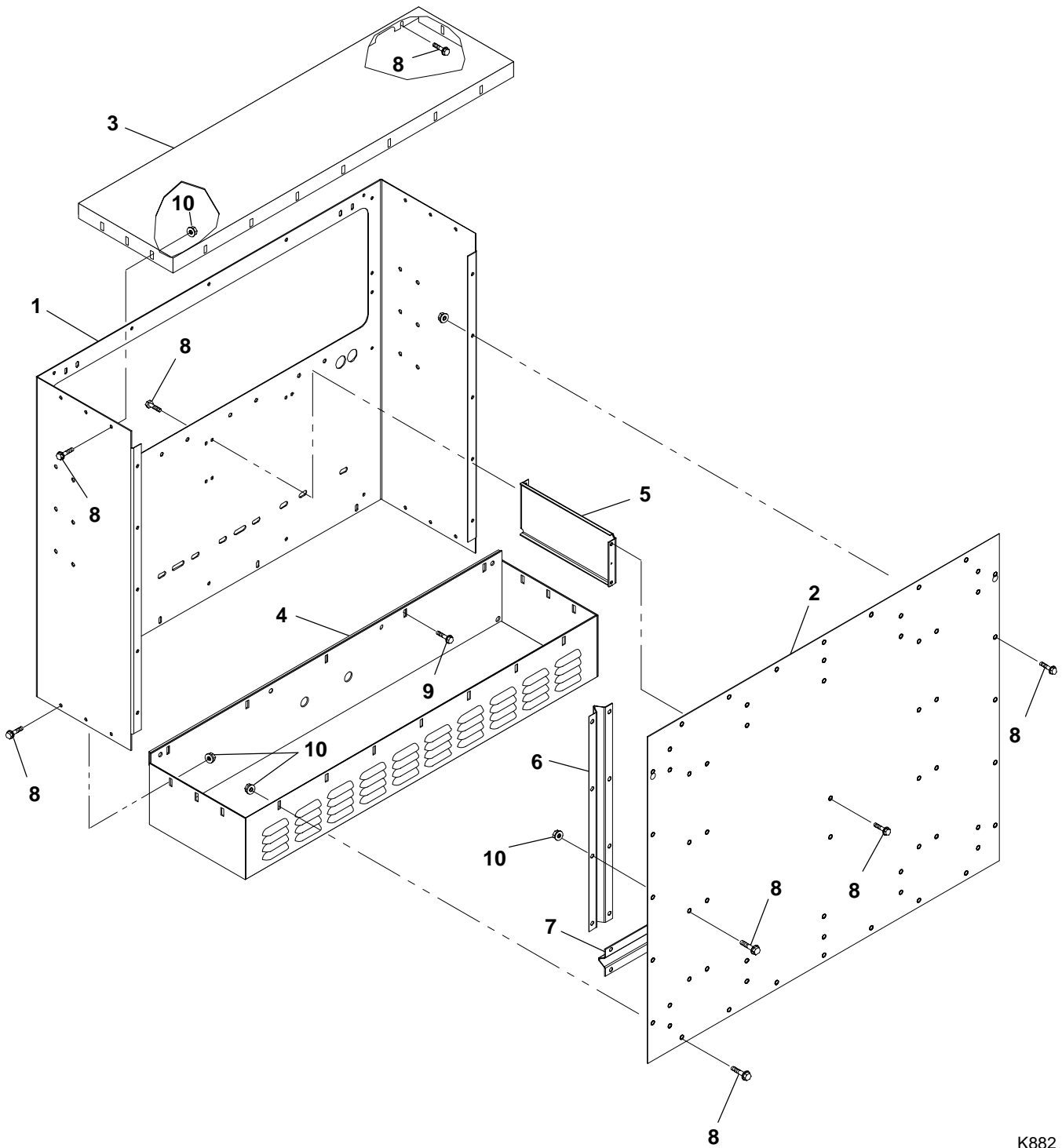


K882

**Entrance Box
DFHA, DFHB, DFHC Spec A**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1957	1	Wrapper, Circuit Breaker	9	821-0018	21	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")
2	319-1961	1	Cover, Entrance Box – Top				
3	319-2378	1	Cover, Entrance Box				
4	319-1925	1	Cover, Entrance Box – Bottom	10	821-0011	5	Screw, Self-Locking – Hex Washer Head (1/4-2- x 7/8")
5	319-2377-01	1	Brace, Entrance Box Cover				
6	319-2398	2	Brace, Cover (Vertical)	11	870-0494	26	Nut, Self-Retaining (1/4-20)
7	319-2399	2	Brace, Cover (Horizontal)	12	816-0098	36	Bolt, Carriage (5/16-18 x 5/8")
8	821-0010	24	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	13	870-0257	36	Nut, Locking (5/16-18)

Entrance Box
DFHA, DFHB, DFHC Begin Spec B
DFHD Begin Spec A

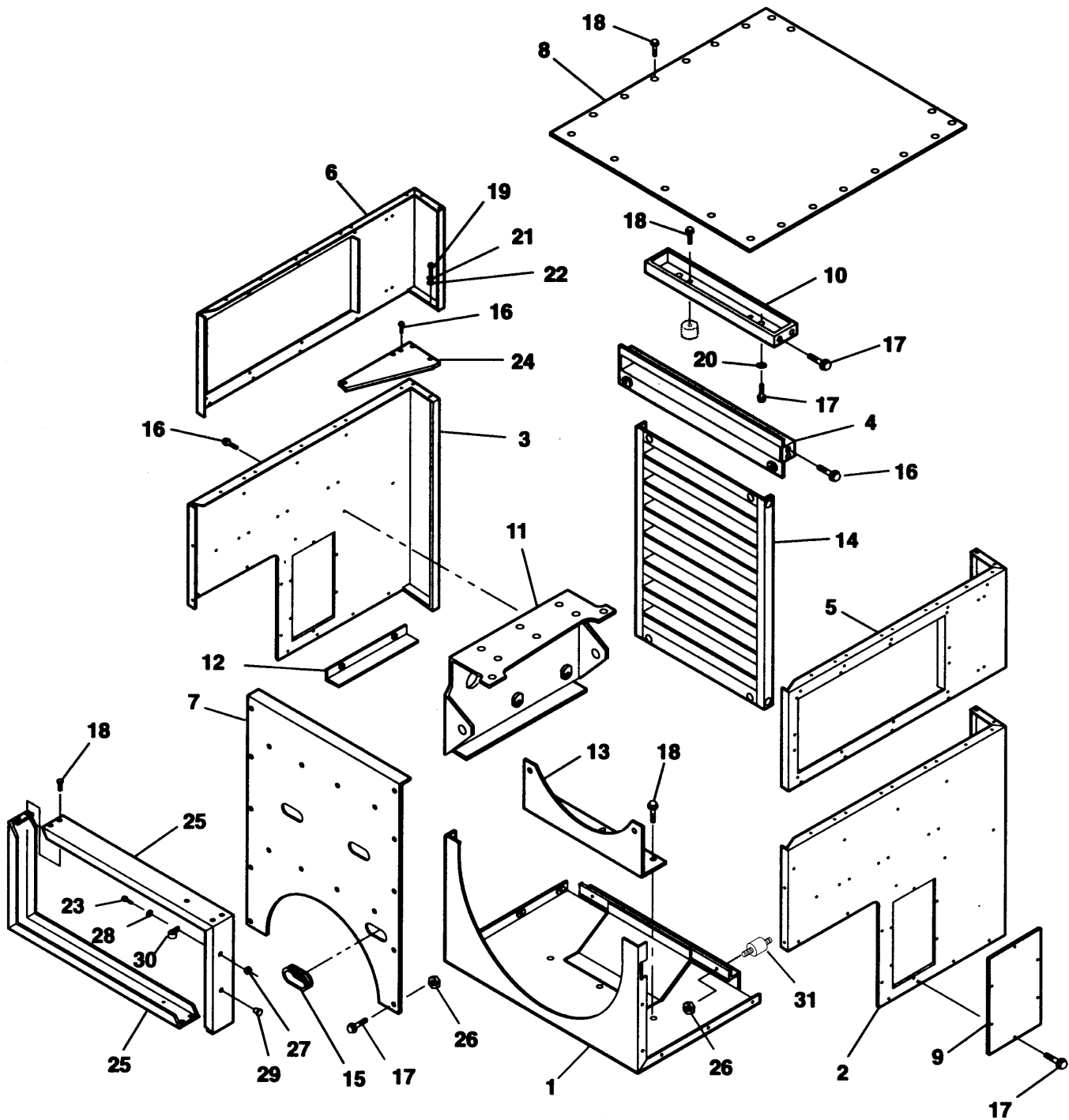


K882

Entrance Box
DFHA, DFHB, DFHC Begin Spec B
DFHD Begin Spec A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3184	1	Wrapper, Circuit Breaker	7	319-3288	2	Brace, Cover (Horizontal)
2	319-3265	1	Cover, Entrance Box	8	821-6002-03	89	Screw, Hex Head (M6 x 16mm)
3	319-1961	1	Cover, Entrance Box – Top	9	821-2035	5	Screw, Self-Locking –
4	319-1925	1	Cover, Entrance Box – Bottom				Hex Washer Head (M6 x 25mm)
5	319-3264	1	Brace, Cover	10	870-0504	26	Nut, Retaining (M6)
6	319-3286	2	Brace, Cover (Vertical)				

Control Housing
DFHA, DFHB, DFHC
Spec A

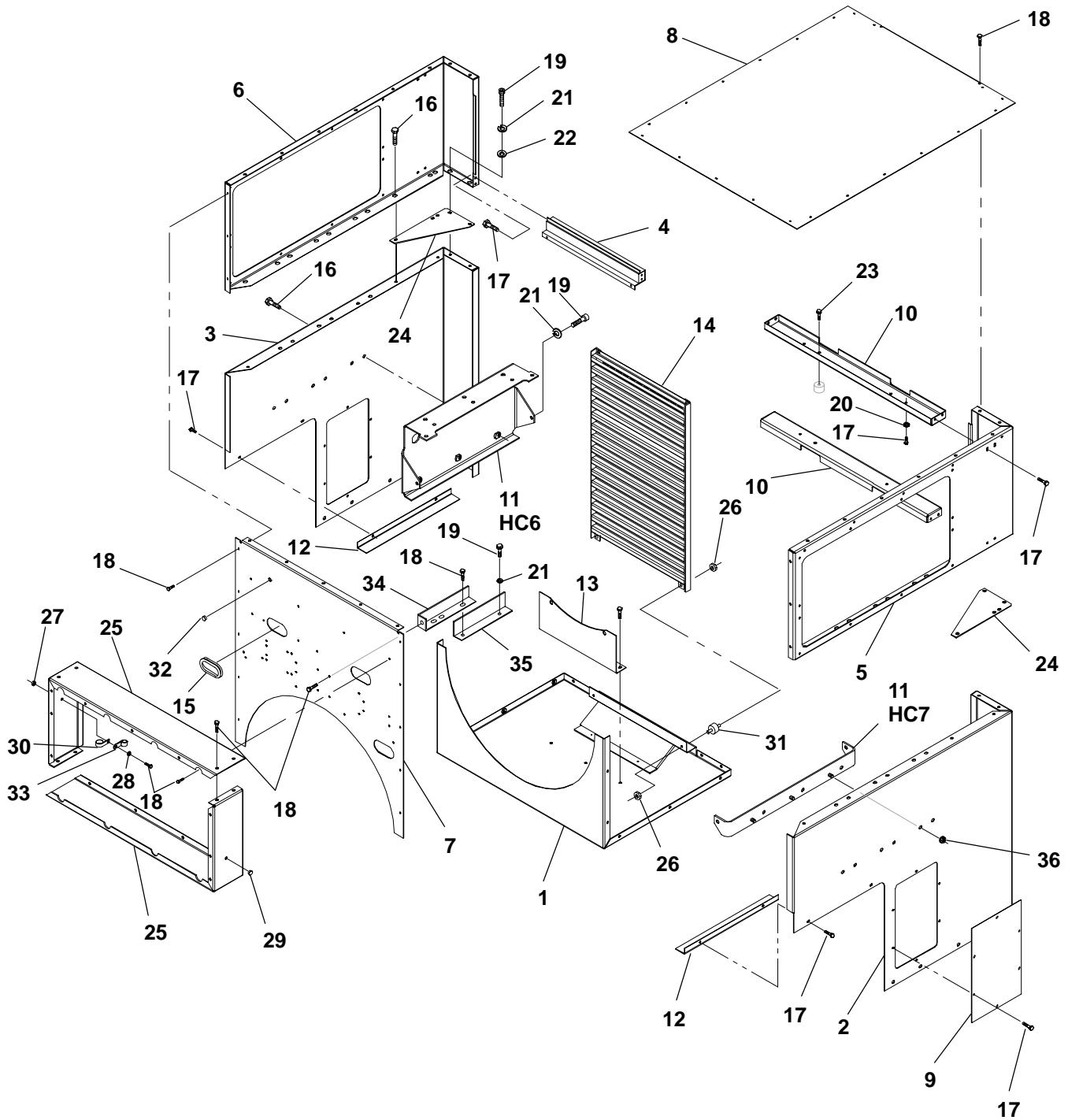


CP01

**Control Housing
DFHA, DFHB, DFHC
Spec A**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2771-03	1	Panel, Control – Bottom	17	821-5002-03	30	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
2	319-2781-01	1	Panel, Control Housing – Right Side	18	821-5003-01	65	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")
3	319-2781-02	1	Panel, Control Housing – Left Side	19	800-2086	14	Screw, Cap – Hex Head (M10 x 1.5 x 1/4")
4	319-2778	1	Panel, Control Housing – Rear	20	856-0006	2	Washer, Lock – EIT (1/4")
5	319-2779-01	1	Panel, Control Housing – Right Side	21	850-2010	14	Washer, Lock (M10)
6	319-2779-02	1	Panel, Control Housing – Left Side	22	526-0141	10	Washer, Flat (3/8")
7	319-2243	1	Panel, Control Housing – Front	23	821-5003-03	11	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
8	319-1093	1	Panel, Control Housing – Top	24	319-1203-01	2	Gusset, Control Housing
9	319-0881	2	Cover, Lower Housing – Side	25	319-2244	2	Wrapper, Control Box
10	319-0879	2	Support, Box – Control	26	870-0550-05	10	Nut, Self-Locking (1/4-20)
11	319-1096	2	Bracket, Saddle	27	870-0550-07	2	Nut, Lock (5/16-18)
12	319-0883	2	Angle, Housing	28	526-1115	2	Washer, Flat (5/16")
13	319-1091	1	Bracket, Panel	29	517-0131	2	Plug, Hole
14	319-2767	1	Grille, Generator	30	332-2634	4	Clamp, J
15	508-1090	3	Grommet	31	402-0610	4	Isolator, Vibration
16	821-5004-02	12	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")				

Control Housing
DFHA, DFHB, DFHC Begin Spec B
DFHD Begin Spec A

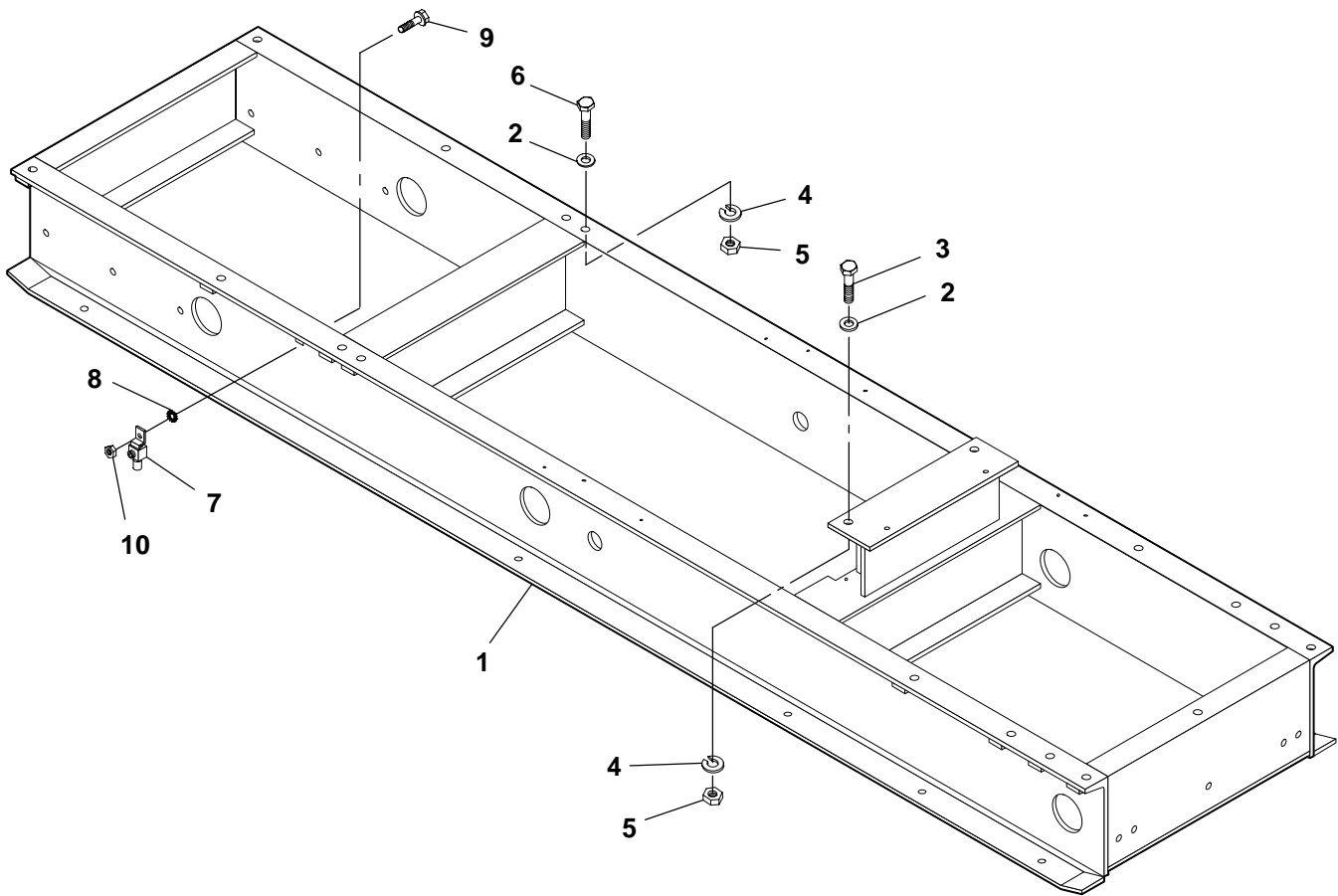


CP01

Control Housing
DFHA, DFHB, DFHC Begin Spec B
DFHD Begin Spec A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Panel, Control – Bottom	18			Screw, Hex Head (M8 x 20mm)
	319-3270-03	1	Model HC6 Generator		821-6003-02	72	Model HC6 Generator
	319-3270-04	1	Model HC7 Generator – DFHC Begin Spec C, DFHD Begin Spec A		821-6003-02	74	Model HC7 Generator – DFHC Begin Spec C, DFHD Begin Spec A
2	319-3283-01	1	Panel, Control Housing – Right Side	19			Screw, Cap – Hex Head (M10 x 25mm)
3	319-3283-02	1	Panel, Control Housing – Left Side		800-2086	14	Model HC6 Generator
4	319-2778	1	Panel, Control Housing – Front		800-2086	11	Model HC7 Generator – DFHC Begin Spec C, DFHD Begin Spec A
5	319-3281-01	1	Panel, Control Housing – Right Side	20	856-0006	2	Washer, Lock – EIT (1/4")
6	319-3281-02	1	Panel, Control Housing – Left Side	21			Washer, Lock (M10)
					850-2010	14	Model HC6 Generator
7			Panel, Control Housing – Rear		850-2010	11	Model HC7 Generator – DFHC Begin Spec C, DFHD Begin Spec A
	319-3276	1	Model HC6 Generator	22			Washer, Flat (3/8")
	319-3275	1	Model HC7 Generator – DFHC Begin Spec C, DFHD Begin Spec A		526-0141	10	Model HC6 Generator
					526-0141	6	Model HC7 Generator – DFHC Begin Spec C, DFHD Begin Spec A
8	319-1093	1	Cover, Control Housing – Top	23	821-0014	4	Screw, Self-Locking – Hex Washer Head (5/16 x 1/2")
9	319-0881	2	Cover, Lower Housing – Side	24	319-1203-01	2	Gusset, Control Housing
10	319-3258	2	Support, Control Box	25	319-3277	2	Wrapper, Control Box
11			Bracket, Saddle	26	870-2054	10	Nut, Locking – Hex Flange Head (M6 x 1")
	319-3267	2	Model HC6 Generator – With Weldnuts for Mounting				
				27	870-2055	2	Nut, Locking – Hex Flange Head (M8 x 1-1/4")
	319-3268	2	Model HC7 Generator – DFHC Begin Spec C, DFHD Begin Spec A – With Welded Studs for Mounting	28	526-1115	2	Washer, Flat (5/16")
				29	517-0131	3	Plug, Hole
				30	332-2634	2	Clamp, "J"
				31	402-0729	4	Isolator, Vibration
12	319-3260	2	Angle, Housing – Model HC6 Generator	32	517-0135	1	Plug, Hole
				33	518-0548-42	2	Clamp, Hose
13			Bracket, Panel	34	319-3263	1	Support, Angle – Model HC7 Generator – DFHC Begin Spec C, DFHD Begin Spec A
	319-1091	1	Model HC6 Generator				
	319-1092	1	Model HC7 Generator – DFHC Begin Spec C, DFHD Begin Spec A	35	319-3269	1	Support, Angle – Model HC7 Generator – DFHC Begin Spec C, DFHD Begin Spec A
14	319-2767	1	Grille, Generator				
15	508-1090	3	Grommet				
16	821-6004-01	12	Screw, Hex Head (M10 x 20mm) – Model HC6 Generator	36	870-2056	6	Nut, Hex – Flange (M10 x 1.50) – Model HC7 Generator – DFHC Begin Spec C, DFHD Begin Spec A
17			Screw, Hex Head (M6 x 16mm)				
	821-6002-03	30	Model HC6 Generator				
	821-6002-03	26	Model HC7 Generator – DFHC Begin Spec C, DFHD Begin Spec D				

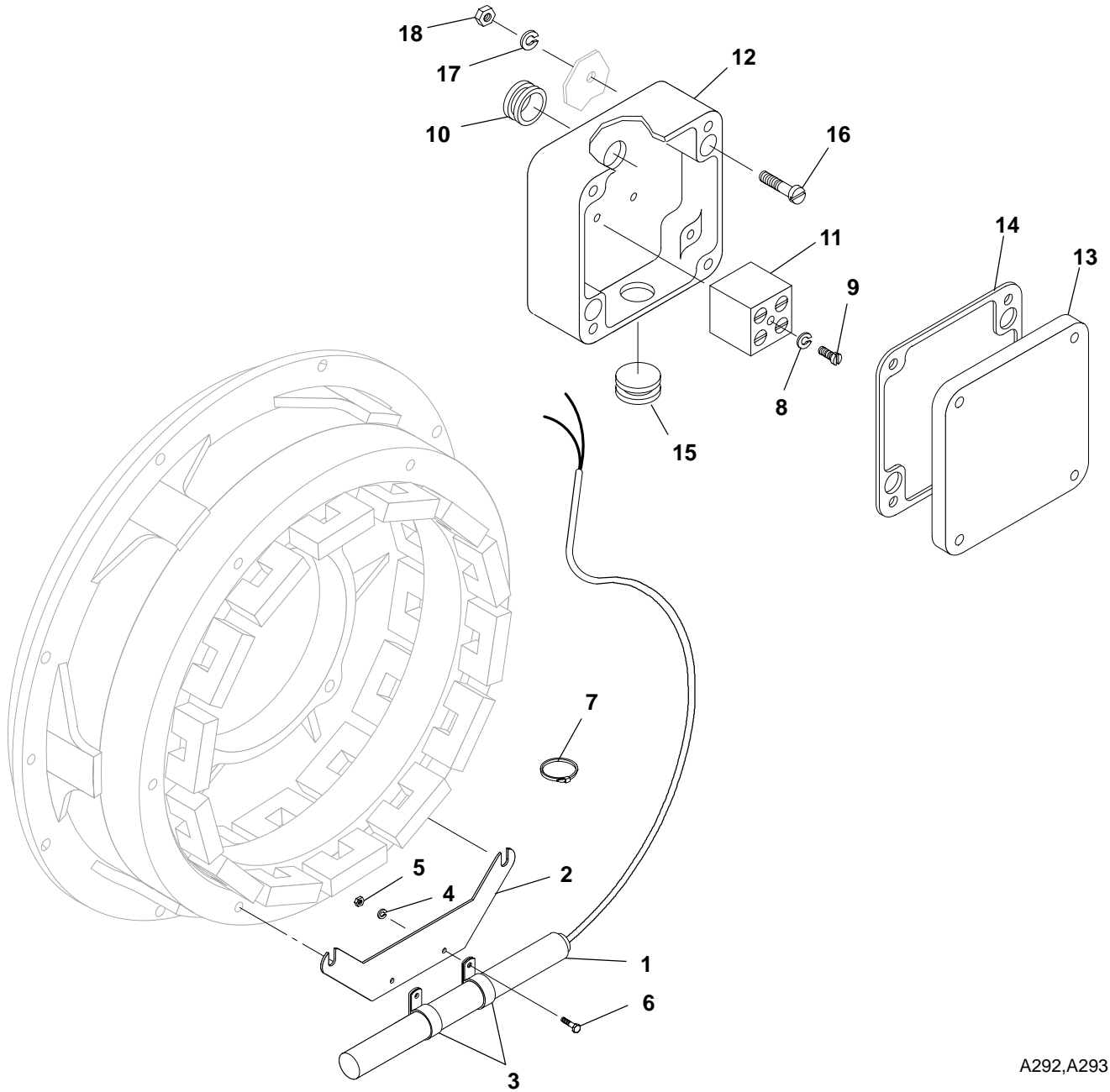
Skid



CP01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-3846	1	Skid	5	862-0008	6	Nut, Hex (3/4-10)
	403-4211	1	Model HC6 Generator – DFHC Begin Spec C, DFHD Begin Spec A	6	800-0159	4	Screw, Cap – Hex Head (3/4-10 x 3")
2	526-0027	12	Washer, Flat (3/4")	7	332-2001	1	Lug, Solderless – Grounding
3	800-0161	2	Screw, Cap – Hex Head (3/4-10 x 3-1/2")	8	856-0010	1	Washer – W/EIT (3/8")
4	850-0079	6	Washer, Lock – Spring (3/4")	9	800-0051	1	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1-1/4")
				10	870-0550-09	1	Nut, Hex Flange (3/8-16)

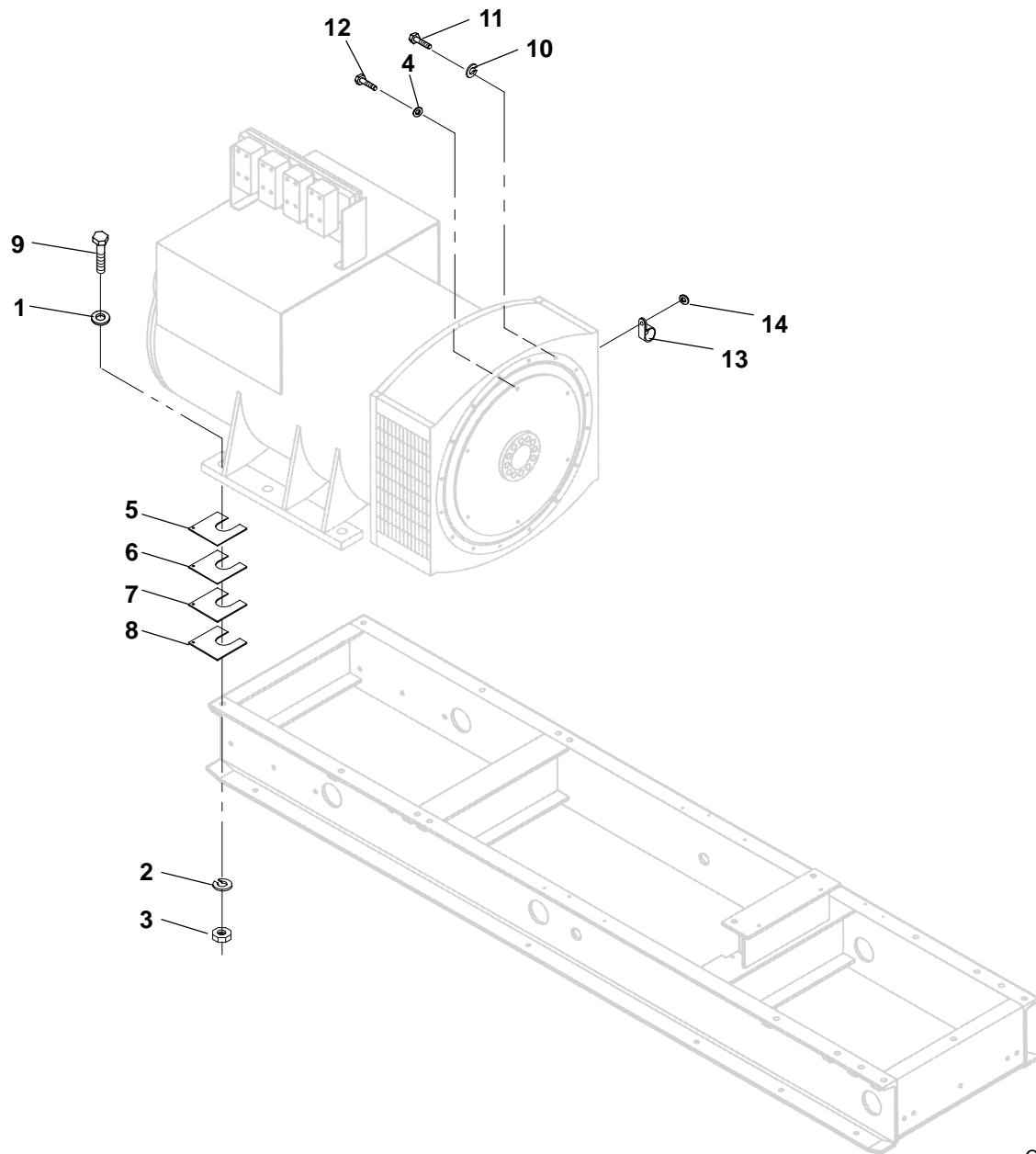
Generator Heater



A292,A293

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0438-05	1	Cartridge, Heater	9	822-3047	1	Screw, Pan Head (M3 x 20)
	333-0438-06	1	110-125 Volts	10	508-0228	1	Grommet
2	232-3849	1	220-260 Volts	11	332-3023	1	Block, Terminal
3	332-3024-14	2	Bracket, Heater Mounting	12	330-0142	1	Box, Terminal – Heater
4	850-2005	2	Clamp, Loop				(Includes Cover and Gasket)
5	860-2006	2	Washer, Lock – Spring (M5)	13	330-0141-03	1	Cover, Terminal Box
6	800-2008	2	Nut, Hex – Steel Machine (M5)	14	330-0141-04	1	Gasket, Terminal Box
7	332-1389	1	Screw, Cap – Hex Head (M5 x 16)	15	517-0021	1	Plug, Dot Button
8	850-2003	1	Tie, Cable (Quantity Used As Required)	16	822-3075	6	Screw, Pan Head (M4 x 16)
				17	850-2004	2	Washer, Lock (M4)
				18	860-2005	2	Nut, Hex – Steel Machine (M4)

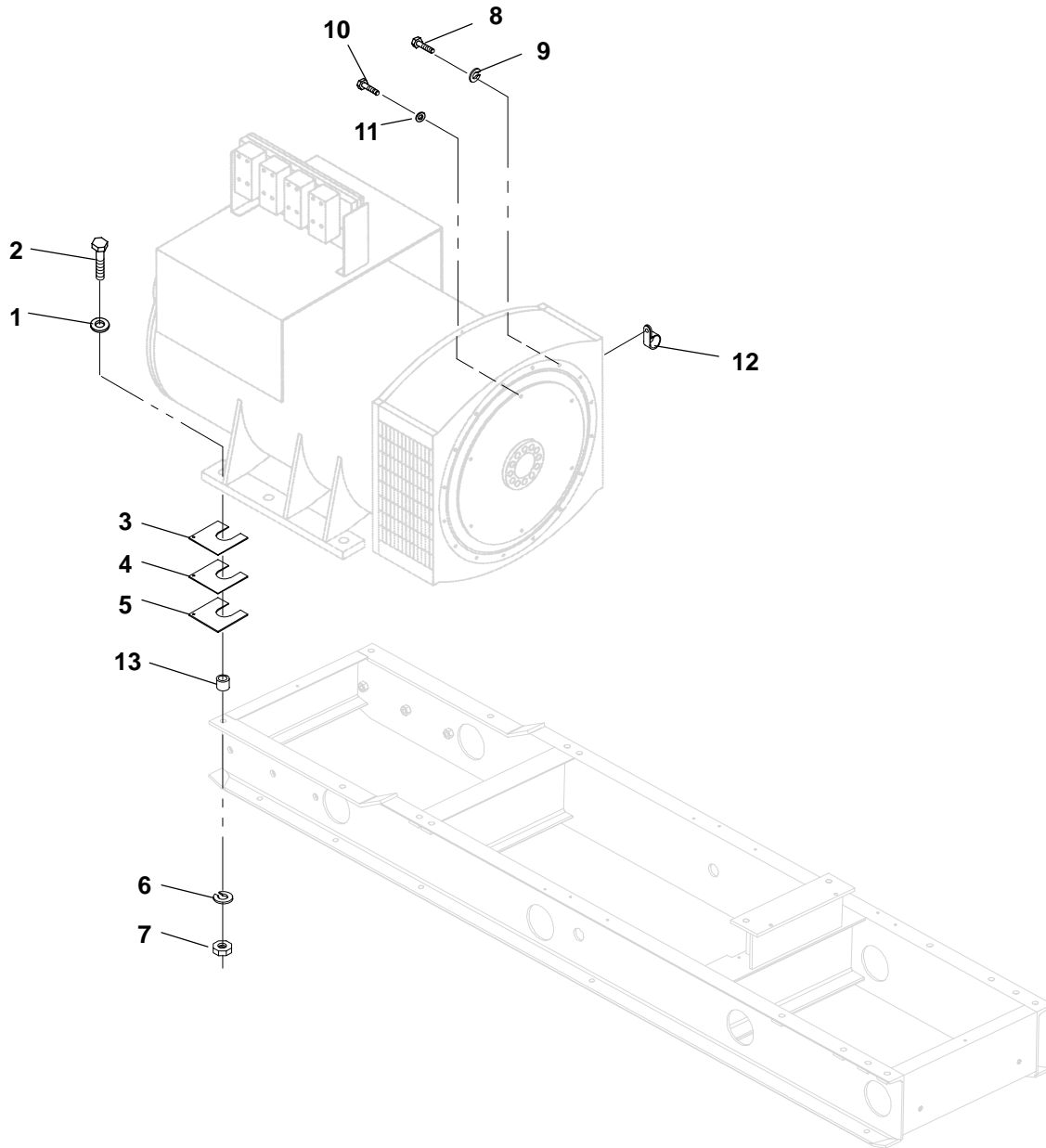
Generator Mounting Model HC6 Generator



CP01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	526-0027	4	Washer, Flat (3/4")	10	850-2012	16	Washer, Lock – Spring (M12)
2	850-0079	4	Washer, Lock – Spring (3/4")	11	800-2543-05	16	Screw, Cap – Hex Head (M12 x 40mm – Grade 10.9)
3	862-0008	4	Nut, Hex (3/4-10)	12	805-0035	6	Bolt, Place (5/8-11 x 1-1/2" – Grade 8)
4	526-0416	6	Washer, Flat (5/8")	13	332-2634	2	Clamp, J
5	232-3941-01 A/R		Shim – 2.6mm Thick	14	526-0018	2	Washer, Flat (1/4")
6	232-3941-02 A/R		Shim – 1.9mm Thick				
7	232-3941-03 A/R		Shim – .6mm Thick				
8	232-3941-04	4	Shim – 4.8mm Thick				
9	800-0163	4	Screw, Cap – Hex Head (3/4-10 x 4")				

Generator Mounting Model HC7 Generator



CP01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	526-0444	4	Washer, Flat (3/4")	8	800-2543-08	16	Screw, Cap - Hex Head (M12 x 1.75 x 55) (Grade 10.9)
2	800-0161	4	Screw, Cap - Hex Head (3/4-10 x 3.25)	9	850-2012	16	Washer, Lock (M12)
3	232-3710-03	4	Shim - .1196mm Thick	10	805-0035	6	Bolt, Place (5/8-11 x 1-1/2") (Grade 8)
4	232-3710-01	4	Shim - .0239mm Thick	11	526-0416	6	Washer, Flat (5/8")
5	232-3710-02	4	Shim - .0747mm Thick	12	332-3196	1	Clamp, J
6	850-0079	4	Washer, Lock - Spring (3/4")	13	403-4239	4	Spacer
7	862-0008	4	Nut, Hex (3/4-10)				

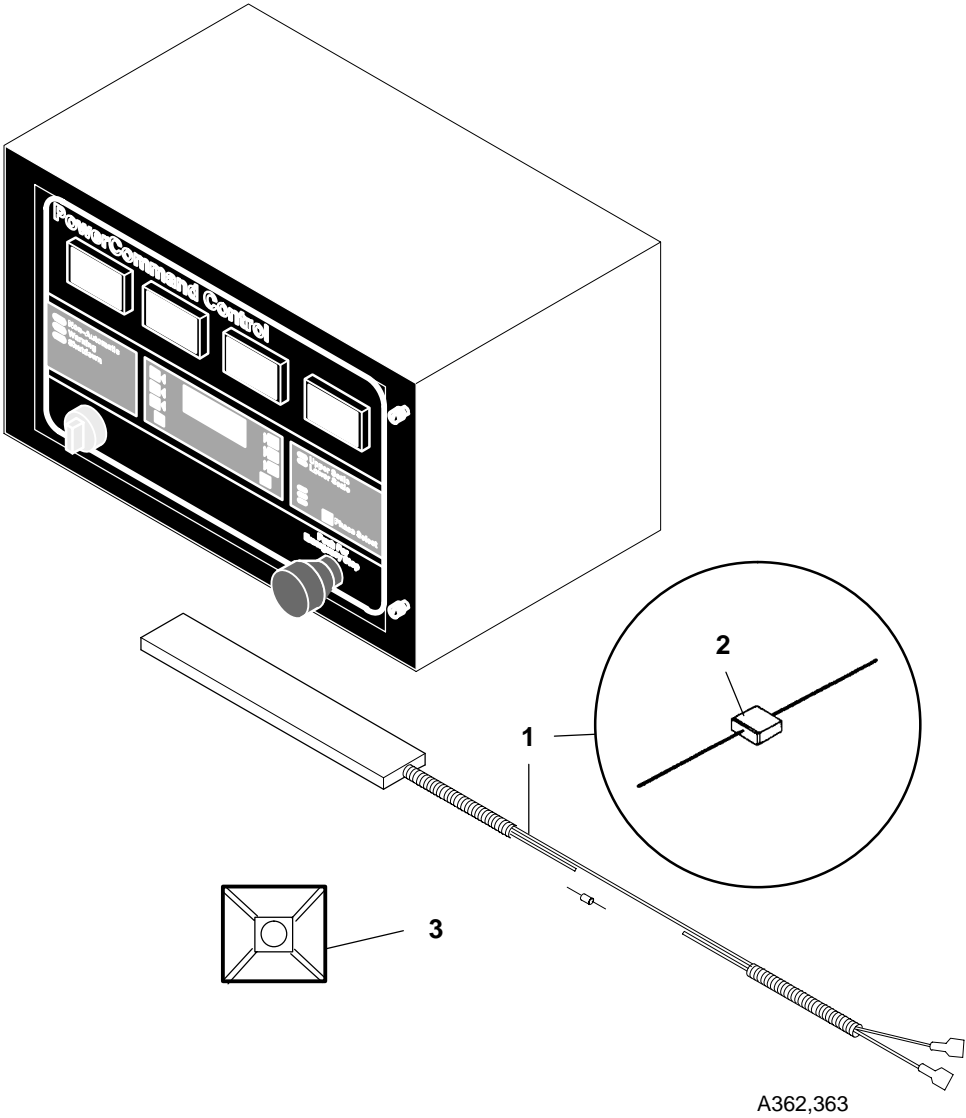
Generator

For COMPLETE generator replacement use the 249-XXXX-XX Cummins/Onan identification number.

Frame 6 and Frame 7 generator component parts cannot be ordered from Onan. Refer to the Newage name-plate 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 Onan identification number listed below.

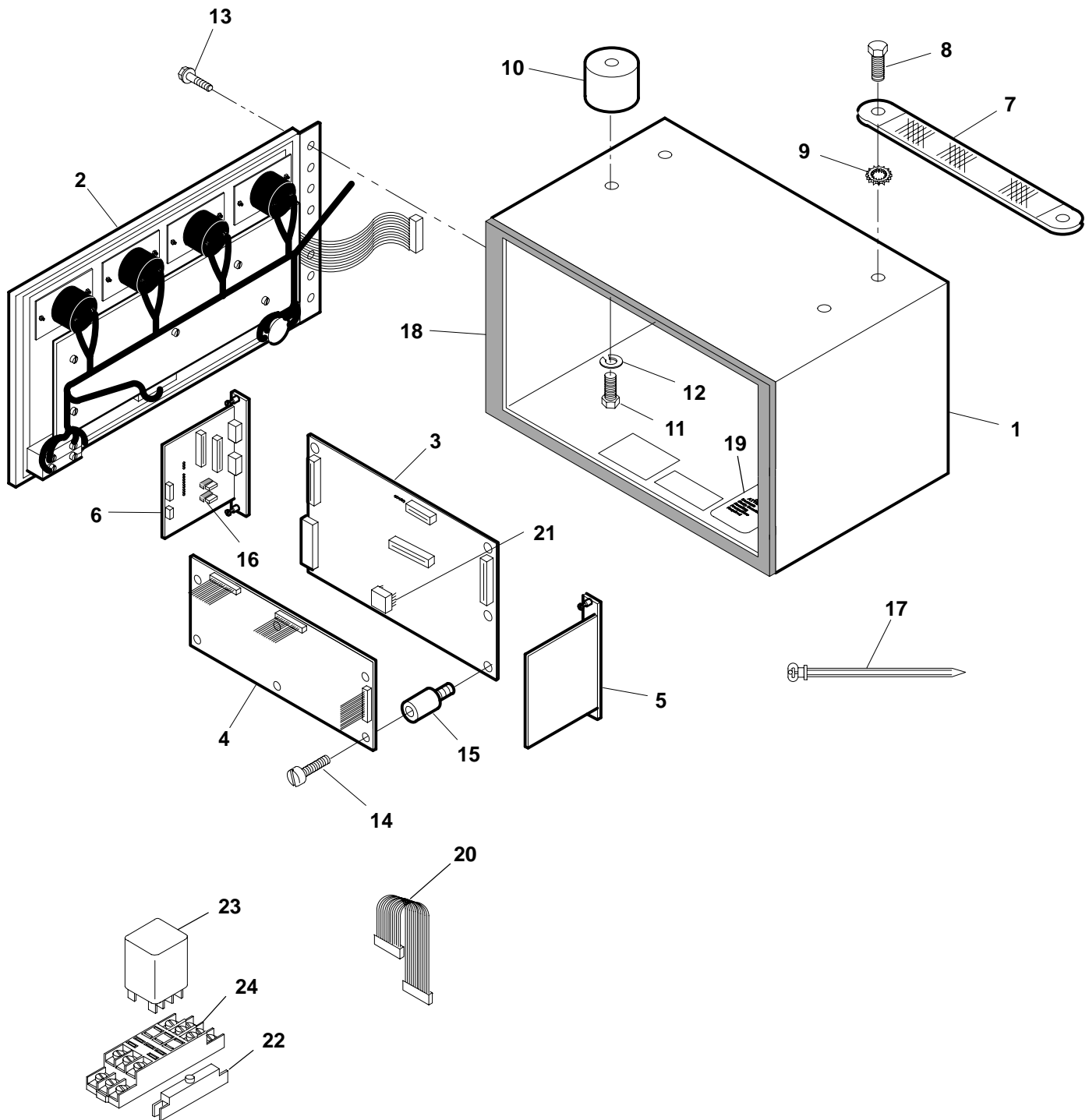
Cummins/Onan Identification Number	Generator Model
249-5088-01	HC6G
249-5088-02	HC6H
249-5088-03	HC6J
249-5088-07	HC6K
249-5089-01	HC6G
249-5089-02	HC6H
249-5089-03	HC6J
249-5089-07	HC6K
249-5090-01	HC6G
249-5090-02	HC6H
249-5090-03	HC6J
249-5090-07	HC6K
249-5092-01	HC7E
249-5092-02	HC7F
249-5093-01	HC7E
249-5095-04	MV7E
249-5095-05	MV7F

Control Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater Assembly, Control – 100 Watt (Includes Rectifier)	2	357-0114	1	Rectifier (3 Amp)
	300-4515-01	1	120 Volt	3	332-3338	1	Mount, Cable
	300-4515-02	1	240 Volt				

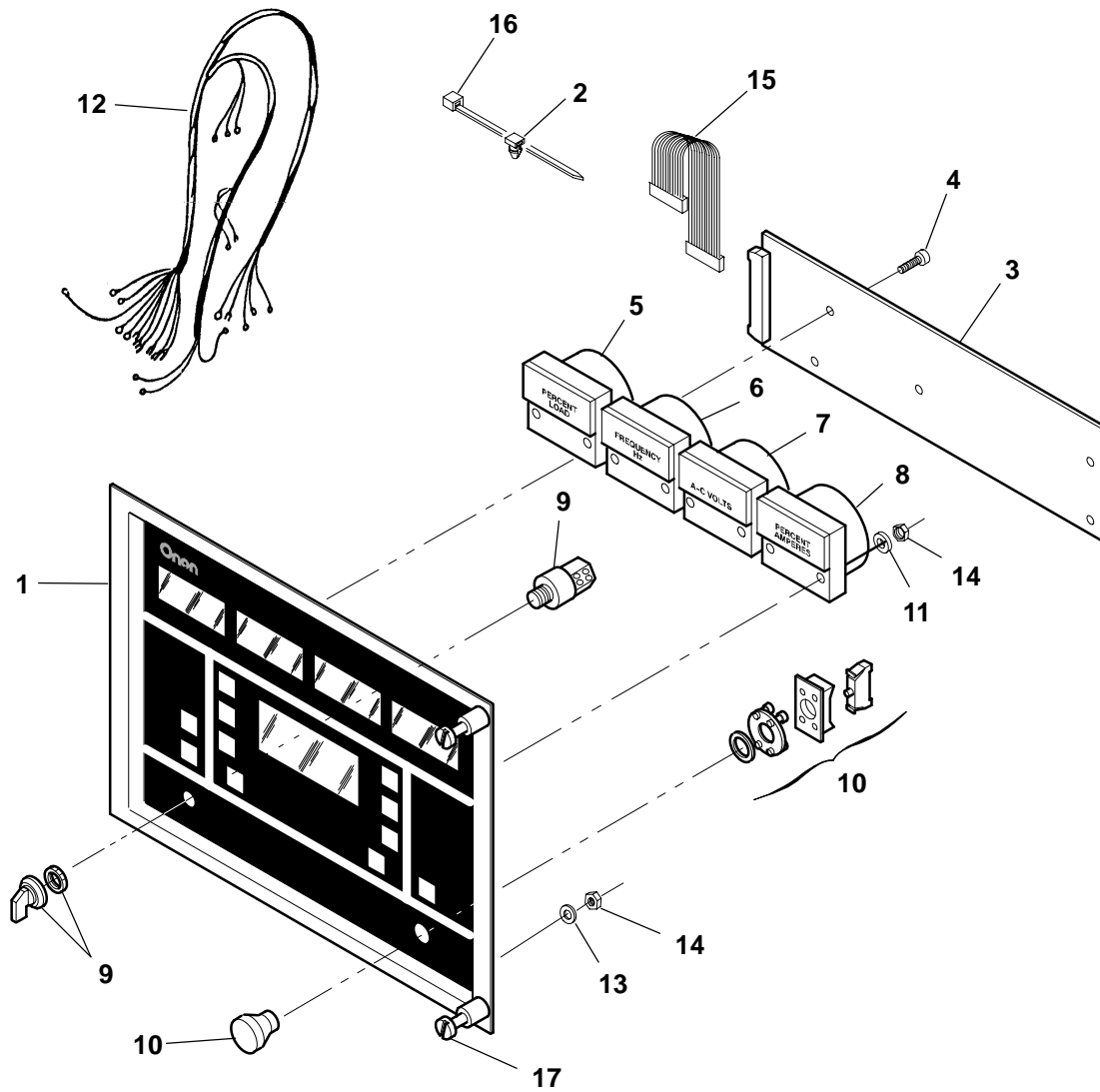
Control Box



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)	14	815-0549	6	Screw, Machine – Pan Head – Cross Recessed W/ET (#6-32 x 1/4")
2			Door Assembly – Control (See Separate Page For Components)	15	332-3235	6	Standoff, Board – PC (#6-32 IT x #6-32 ET x 3/4")
3	300-4079		Board, Printed Circuit – Digital (A32)	16	321-0307-03	2	Fuse, 5 Amp, 32V (F1, F3)
4			Board, Printed Circuit – Analog (A33)	17	332-1445	1	Tie, Cable (Quantity Used As Required) (Door Harness)
	300-4080-01	1	Single Set	18	895-0359	1	Gasket, Door
	300-4080-02	1	Paralleling Sets	19	098-6940	1	Label, Static Sensitive
5			Board, Printed Circuit – Customer Interface (A34)	20			Cable, Ribbon (Used On Early PCC Models With Removable Ribbon Cables)
	300-4462		Single Set		338-2931-02	1	Customer Interface to Digital
	300-4462-01		Paralleling Sets		338-2932-02	1	Customer Interface to Analog
6	300-4819		Board, Printed Circuit – Engine Interface (A31)		338-2932-01	1	Analog to Digital
7	337-0049	2	Strap, Bond		338-2933	1	Analog to Engine Interface
8	800-0003	2	Screw, Cap – Hex Head (1/4-20 x 1/2")		338-2931-01	1	Engine Interface to Digital
9	856-0006	2	Washer, Lock – EIT (1/4")	21			Kit, Language Chip – EPROM (Includes Chip, Instruction Sheets and Warranty)
10	402-0527	4	Isolator, Vibration		300-4721-04		Single Set
11	800-0024	4	Screw, Cap – Hex Head (5/16-18 x 1/2")		300-4721-16		Paralleling Sets
12	850-0045	4	Washer, Lock (5/16")	22	323-1411-01	2	Clip, Socket Mounting
13	821-0004	4	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16")	23	307-1056-01	3	Relay – Control
				24	323-1410-01	3	Socket, Relay

Control Door



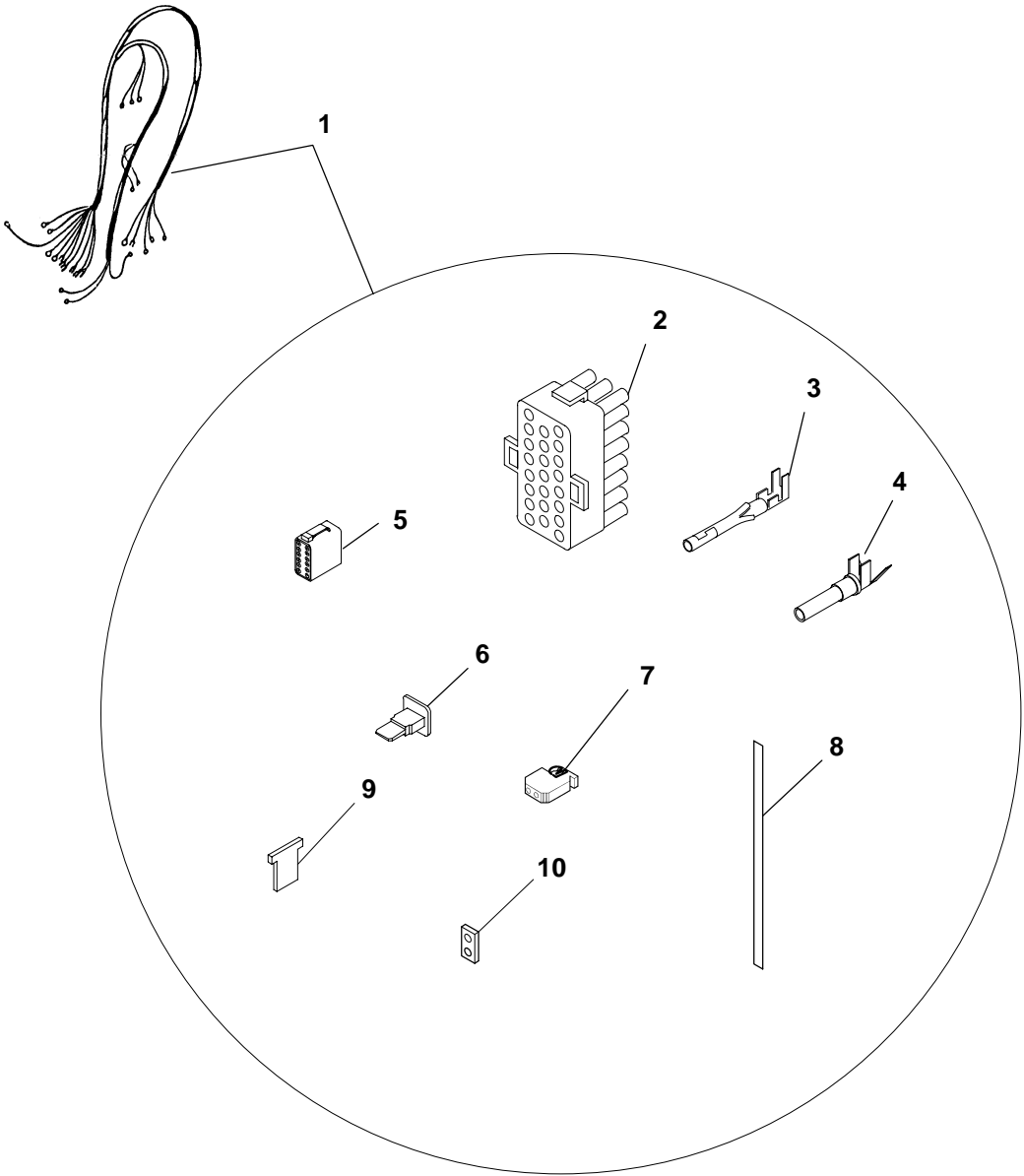
300-4311
300-4431

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		308-1046	2	Key, Replacement (Not Illustrated)
3			Board, Printed Circuit – Display (A35)	10	308-0999	1	Switch, Pushbutton – Emergency Stop (S13)
	300-4481	1	Single Set	11	526-0257	8	Washer, Flat (#4)
	300-4286	1	Paralleling Sets	12	338-2937	1	Harness, Wiring – Control Door (Includes Selector Switch and Emergency Stop Switch)
4	815-0550	5	Screw, Machine – Pan Head – Cross Recessed W/ET (#6-32 x 3/8")	13	526-0417	2	* Washer, Flat (#4)
5	302-2012	1	Wattmeter (0-125 %) (M24)	14	870-1220	10	* Nut, Hex – W/ET (#4-40)
6	302-2010	1	Meter, Frequency (45-65 Hz) (M23)	15	338-2934	1	Cable, Ribbon (10-1/2") (A32 to A35)
7			Voltmeter, AC (M21)	16	332-1445	4	Tie, Cable
	302-2009-01	1	0-300/0-600 Volt	17	406-0761-03	2	* Fastener, Door
	302-2009-02	1	0-750 Volt				
	302-2009-03	1	0-5250 Volt				
	302-2009-04	1	0-15 kV				
8	302-2011	1	Ammeter (0-125 %) (M22)				

* – Parts Included in Door Assembly

**Interconnect Wiring Harness
Control**

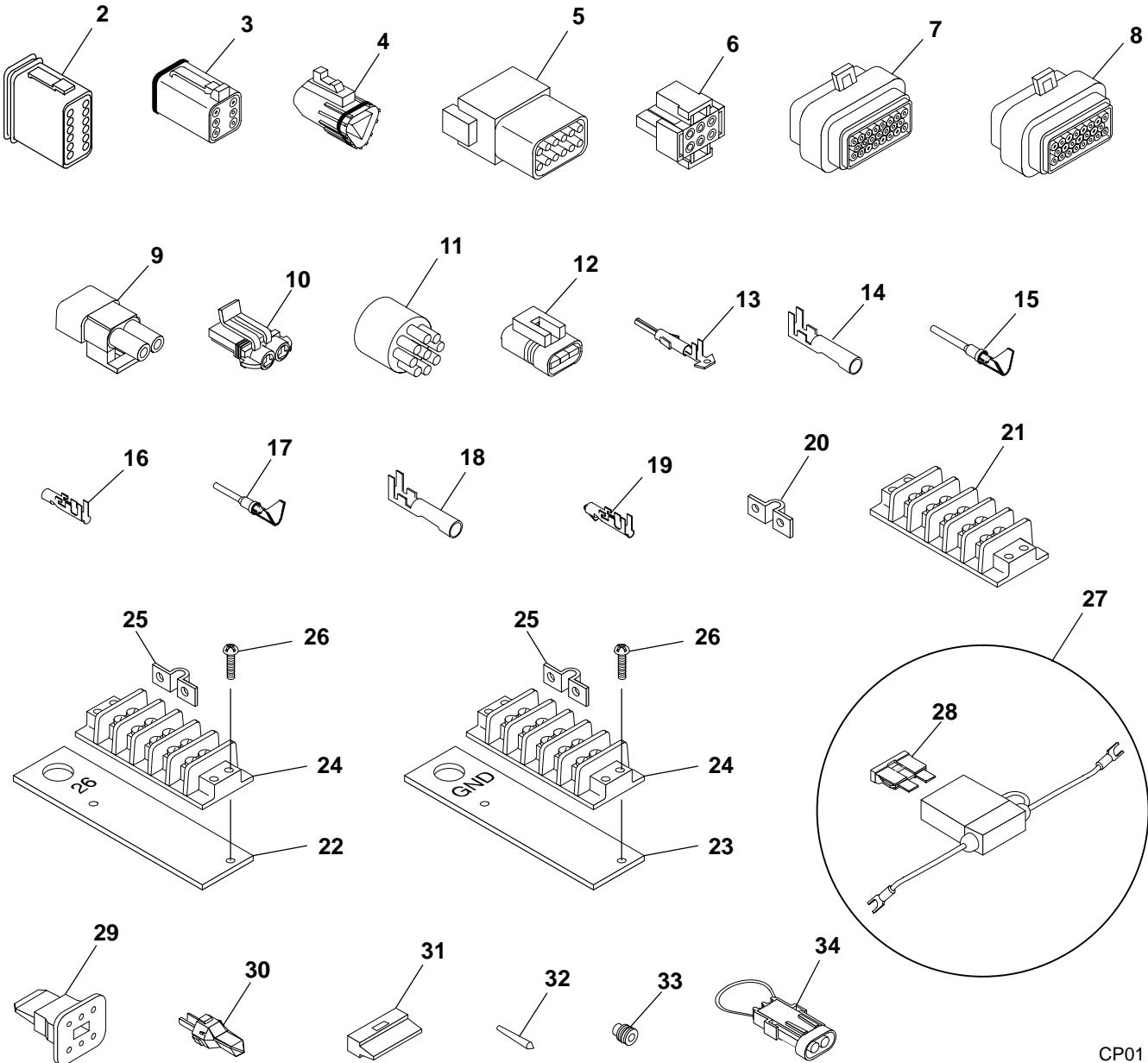
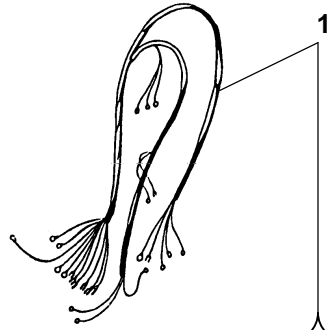


Interconnect Wiring Harness Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring –	8			Tag, Terminal (Used In TB1)
	338–3201	1	Interconnect		332–2842–21	1	# Single Set – Numbered 1 Through 50
	338–3202	1	Single Set (Includes Parts Marked #)				Paralleling Sets
			Paralleling Sets (Includes Parts Marked +)		332–2842–21	1	+ Numbered 1 Through 50
					332–2842–22	1	+ Numbered 51 Through 100
2			Plug, Connector – 23 Place	9	332–2840–02	2	# Partition, Terminal – Single Set (Used On TB1)
	323–1605–01	1	#+ Colored Black (P1)				Jumper, Terminal (Used On TB1)
	323–1605–03	1	#+ Colored Grey (P2)	10			
	323–1605–04	1	#+ Colored Blue (P3)		332–2843–01	1	# Used On Single Level Terminal Blocks
3			Socket, Contact (Used In P1, P2, P3, P8)		332–2843–05	1	+ Used On Double Level Terminal Blocks
	323–1614–01	54	# Single Set				
	323–1614–01	75	+ Paralleling Sets				
4	323–1492	9	Socket, Contact (Used In P1, P12)				
5	323–1582	1	#+ Plug, Connector – 12 Place (Colored Grey) (P12)				
6	323–1583	1	#+ Wedge (Used In P12)				
7			Block, Terminal (Used In TB1)				
	332–3125–02	4	# Single Set (10 Pole Block, Single Level)				
			Paralleling Sets				
	332–3125–02	5	+ 10 Pole Block, Single Level				
	332–3125–04	10	+ Single Pole, Double Level				

– Parts Included In 338–3201 Interconnect Wiring Harness
+ – Parts Included In 338–3202 Interconnect Wiring Harness

Engine Wiring Harness

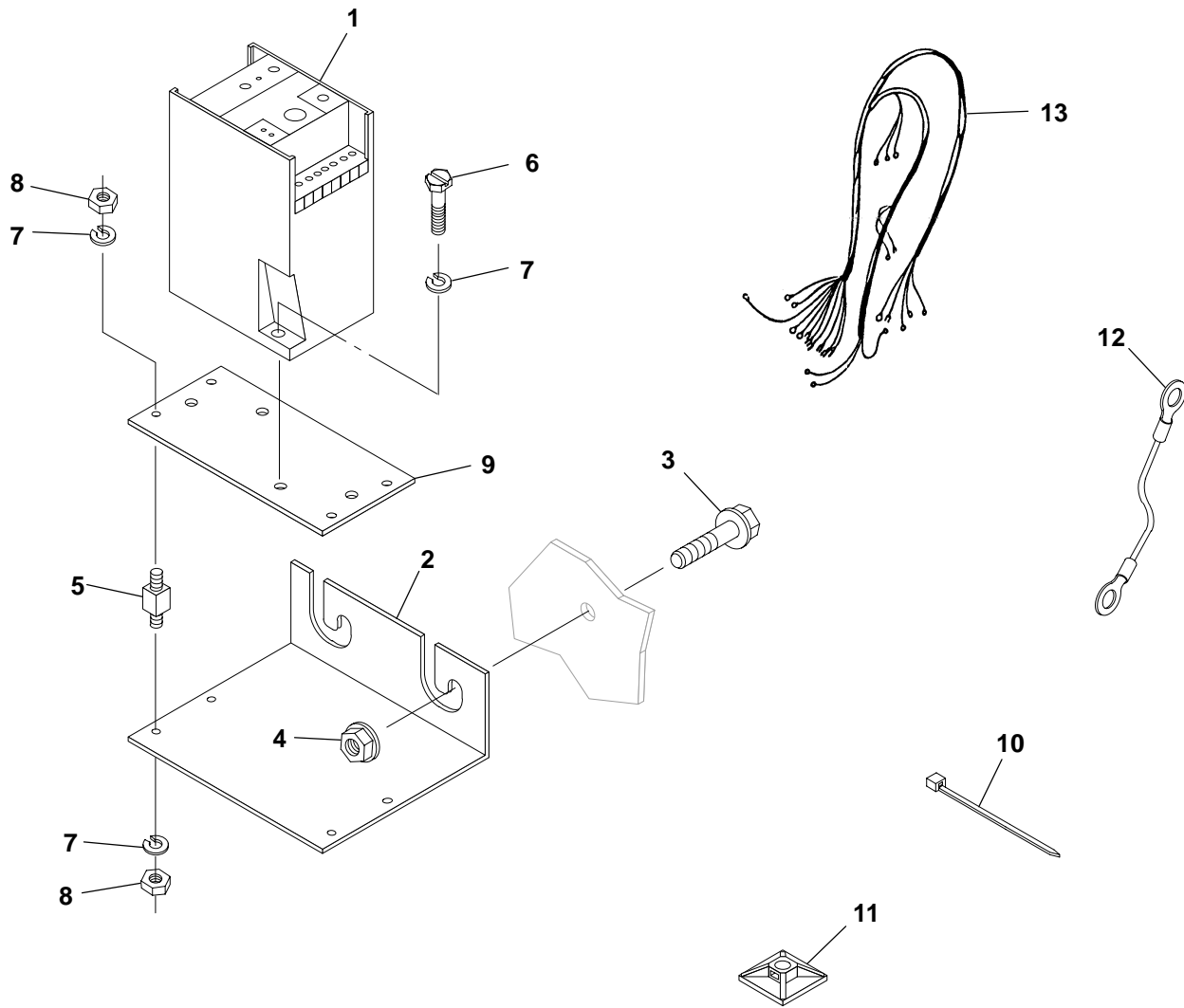


CP01

Engine Wiring Harness

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3377	1	Harness, Wiring – Engine to Control (Includes Reference Numbers 2 Thru 34)	18	323-1648	5	Terminal, Socket (Used in P10)
2	323-1582	1	Plug (12 Pin) (P13)	19	332-3096-01	4	Terminal, Socket (Used in E2, E4)
3	323-1623	1	Plug (6 Pin) (P7)	20	332-1043	4	Jumper
4	323-1493	2	Plug (3 Pin) (P3)	21	332-0604	1	Block, Terminal
5	323-1580	1	Housing Receptacle (J12)	22	319-2006-01	1	Bracket, Terminal Mounting (T26)
6	323-1643-01	1	Housing Plug	23	319-2006-02	1	Bracket, Terminal Mounting (Ground)
7	323-1605-04	1	Connector, Plug (Blue) (P5)	24	332-0604	2	Block, Terminal
8	323-1605-02	2	Connector, Plug (Natural) (P4, P6)	25	332-1043	8	Jumper
9	323-1637	3	Connector, Socket (E6, E7, P1)	26	815-0538	4	Screw, Machine – Round Head – Cross Recessed W/IT (#8-32 x 1/2")
10	323-1540	2	Connector, Socket (E2, E4)	27	321-0339	1	Holder Assembly, Fuse (Includes Fuse Holder, Fuse, and Spade Terminal)
11	323-1730	2	Connector, Actuator (J14, J15)	28	321-0307-07	1	Fuse (20 Amp, 32 Volt, Yellow)
12	323-1738	1	Connector, Socket	29	323-1624	1	Wedge, Lock – Plug (Used in P7)
13	323-1614-01	51	Socket, Contact (Used in P4, P5, P6)	30	323-1503	2	Wedge, Lock (3 Pin)
14	323-1444	6	Terminal, Socket (Used in E6, E7, P1)	31	323-1581	1	Wedge, Receptacle (12 Pin)
15	323-1491	6	Terminal, Socket (Used in J12)	32	323-1615	3	Plug (Used in P4, P5, P6)
16	323-1667	3	Terminal, Socket (Used in E1)	33	323-1445	6	Seal, Cable (Used in E2, E4, E6, E7, J11)
17	323-1492	32	Socket, Female (Used in J11, J14, J15, P3, P7, P13)	34	338-3285	2	Harness, Jumper (E6, E7)

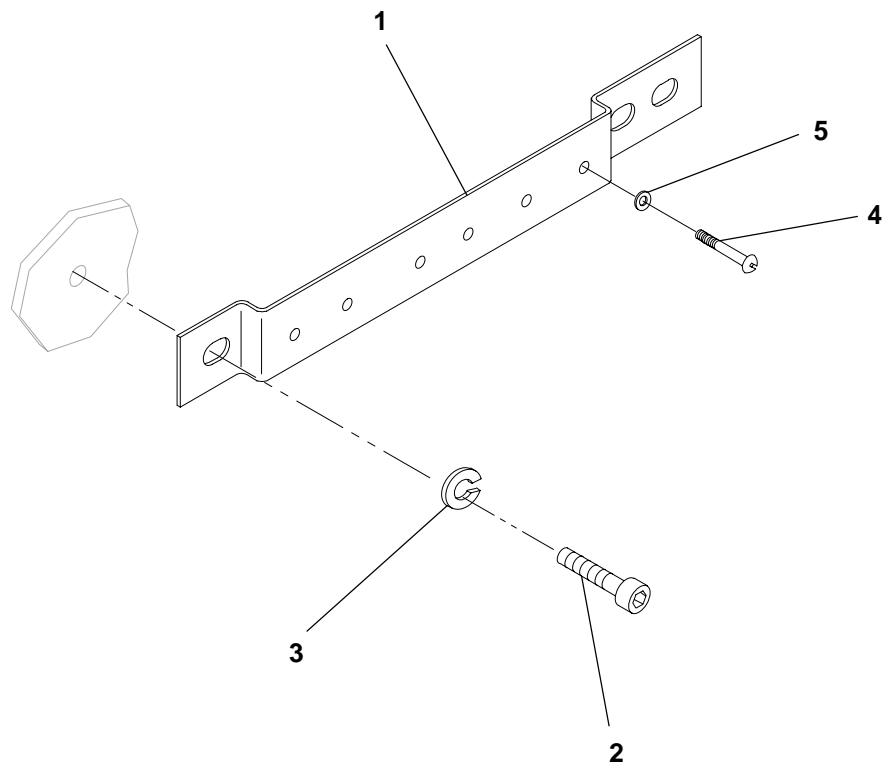
Ground Fault Alarm Relay



H550

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2843	1	Relay, Ground Fault Alarm	8	870-0221	10	Nut, Hex – W/ET (#8-32)
2	301-6987	1	Bracket, Watts Transducer	9	319-0030	1	Plate, Transducer
3	821-0017	2	Screw, Hex Locking Washer Head (5/16-18 x 3/4")	10	332-1445	1	Tie, Wire (Use as Required)
4	870-0257	2	Nut, Self-Locking (5/16-18)	11	332-2420	2	Mount, Cable Tie
5	402-0354	4	Mount, Shock (#8-32)	12	226-4406-06	2	Lead (#1 Wire, 1/2" Ring to 3/8" Ring – 24" Long)
6	812-0081	2	Screw, Round Head Steel Machine (#8-32 x 5/8")				(From Generator Neutral to Generator Grounding Bolt)
7	853-0005	8	Washer, Lock – W/ET (#8)	13	338-3233	1	Harness, Wiring – Relay

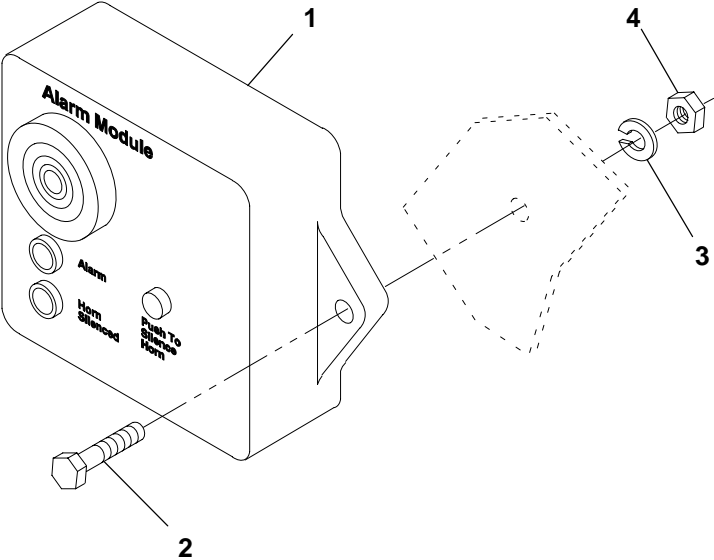
Resistive Temperature Detector DFHD



B312,313,372

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1293	1	Bracket	4	812-0070	4	Screw, Machine – Round Head (#6-32 x 1-1/4")
2	800-2080	2	Screw, Cap – Hex Head (M10 x 12)	5	526-0002	4	Washer, Flat (#6)
3	850-2010	2	Washer, Lock – Spring (M10)				

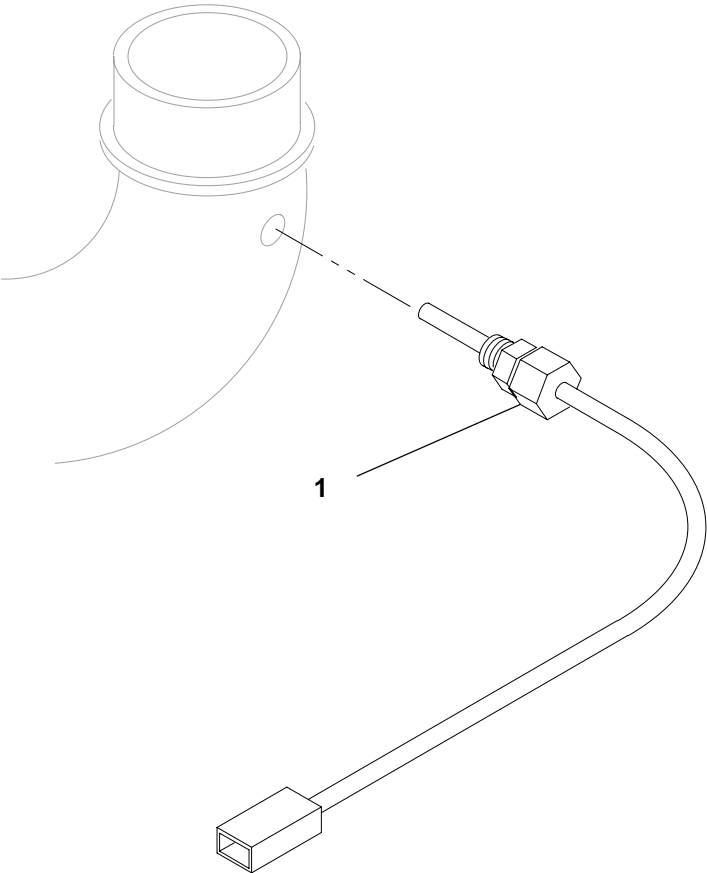
Alarm Module



KA08

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

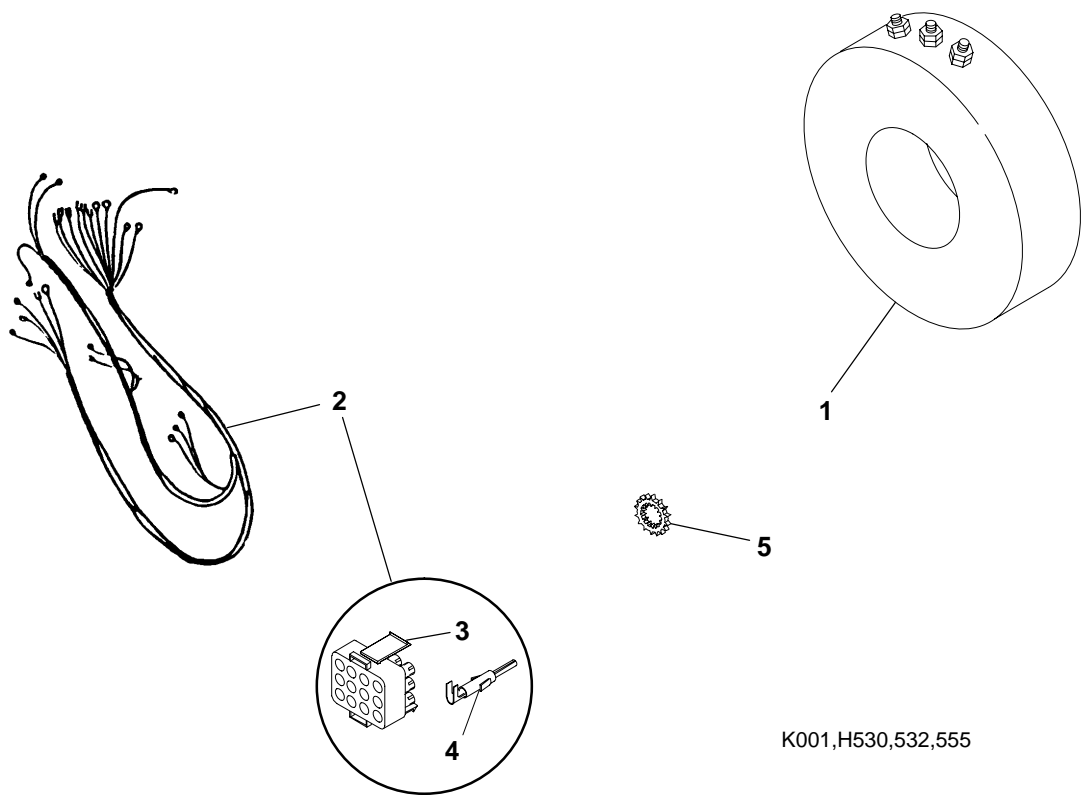
Pyrometer



H244

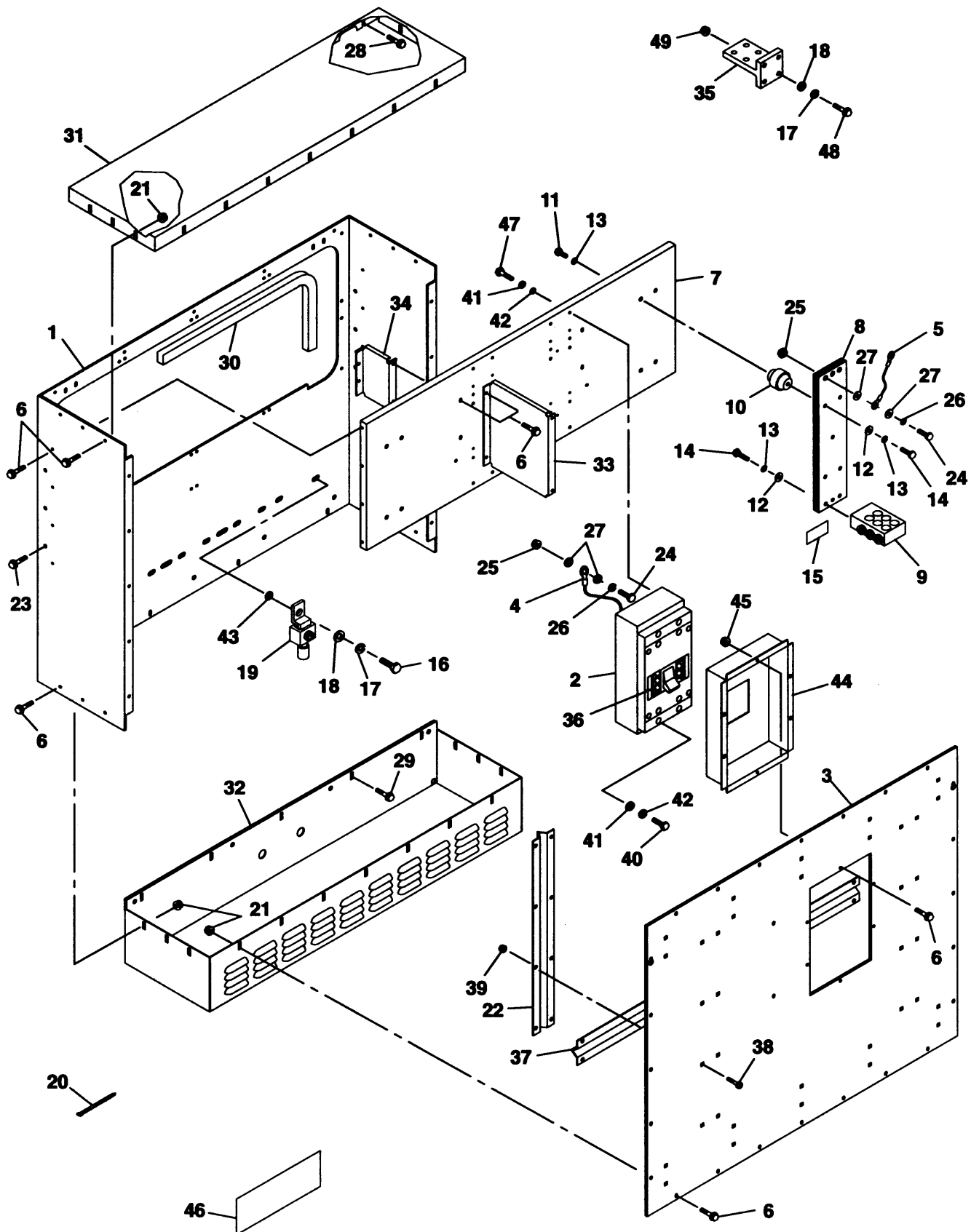
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0446-00	1	Pyrometer (22.5") (E6, E7)				

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	338-3019	1	Harness, Wiring (Includes Plug and Sockets) (P9 To CT21,22,23 and 5,6,7,8) (60")
	302-1922-34	3	Ratio 1893/1 or 3786/1	3	323-1644-03	1	Plug - 12 Place (P9)
	302-1922-36	3	Ratio 2141/1 or 4282/1	4	323-1648	10	Socket, Contact
	302-1922-37	3	Ratio 2279/1 or 4558/1	5	856-0008	2	Washer, Lock - W/EIT (5/16") (Grounding Wires)
	302-1922-38	3	Ratio 2366/1 or 4732/1				
	302-1922-39	3	Ratio 2523/1 or 5046/1				
	302-1922-41	3	Ratio 2839/1 or 5678/1				
	302-1922-42	3	Ratio 3154/1 or 6308/1				

**Circuit Breaker
UL Listed
DFHA, DFHB, DFHC Spec A**



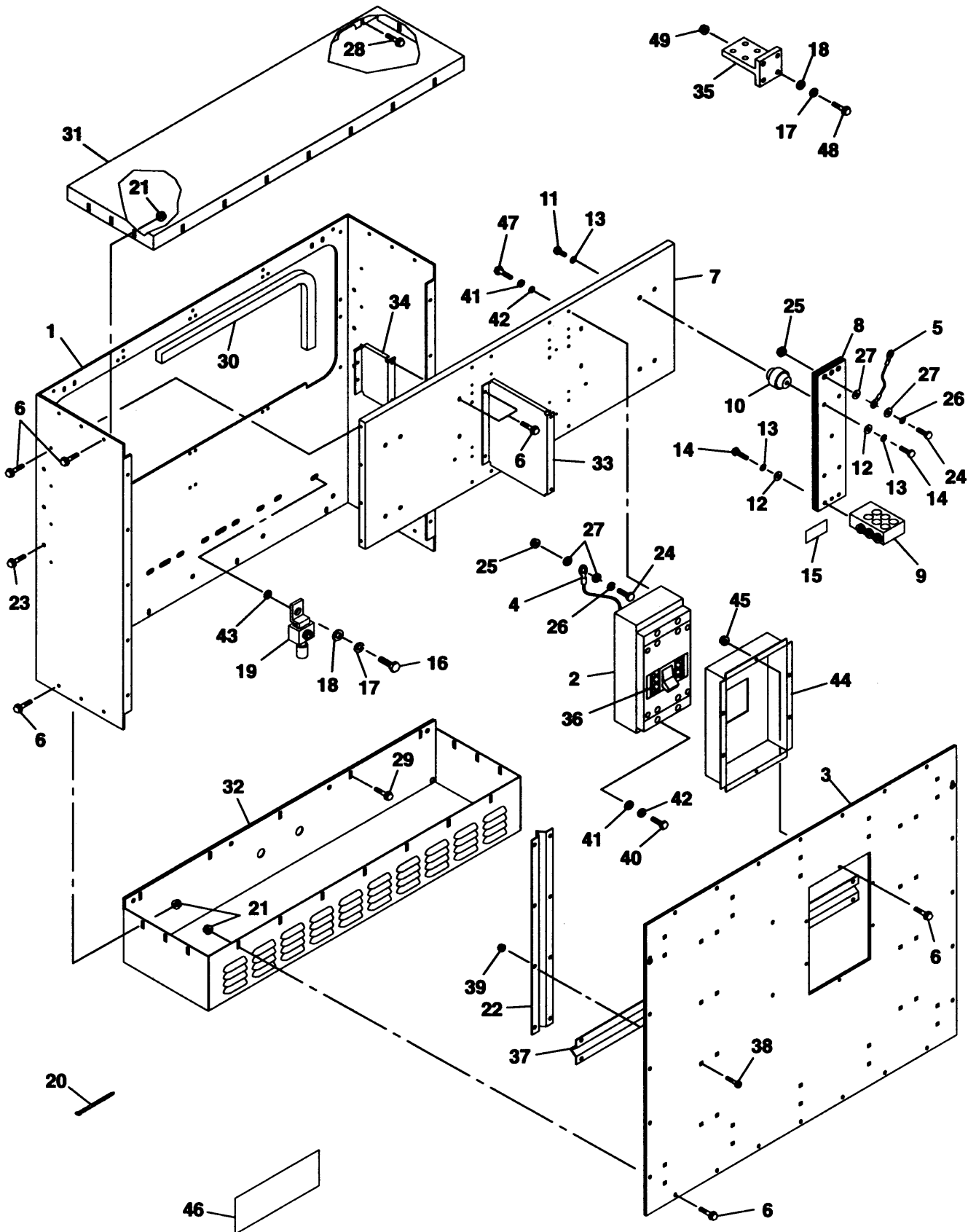
**Circuit Breaker
UL Listed
DFHA, DFHB, DFHC Spec A**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1957	1	Wrapper, Circuit Breaker	226-4406-03	18		Circuit Breaker
2			Breaker, Circuit – Three Pole, 600 Volt (Includes Lugs) (CB21)				320-1906-21
			General Electric				Merlin Gerin
	320-1461-09	1	Standard (1000 Amp) – DFHA, DFHB	226-4498-03	28		1/2" ID Ring to 1/2" Ring – 30" Long
	320-1465-09	1	With Auxiliary Contacts (1000 Amp) – DFHA, DFHB	226-4498-03	32		All Circuit Breakers Except 320-1907-01
	320-1473-09	1	With Shunt Trip (1000 Amp) – DFHA, DFHB	5			Circuit Breaker 320-1907-01
	320-1493-09	1	With Shunt Trip and Auxiliary Contacts (1000 Amp) – DFHA, DFHB				Lead (#1 Wire)
	320-1906-20	1	With Molded Case Switch (1000 Amp) – DFHA, DFHB	226-4406-04	5		1/2" ID Ring to 1/2" ID Ring – 39" Long (Not Used With Merlin Gerin Circuit Breakers)
	320-1906-21	1	With Molded Case Switch (1200 Amp)	226-4406-04	6		General Electric Circuit Breakers Except 320-1906-21
			Merlin Gerin	6			General Electric Circuit Breaker 320-1906-21
	320-1783-01	1	Standard 1250 Amp				Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
	320-1783	1	1600 Amp	821-0010	58		General Electric Circuit Breakers
	320-1783-02	1	2000 Amp – DFHC	821-0010	44		Merlin Gerin Circuit Breakers
			With Shunt Trip	7			Bracket, Circuit Breaker Mounting
	320-1783-05	1	1250 Amp				General Electric Circuit Breakers
	320-1783-04	1	1600 Amp	319-1963	1		Merlin Gerin Circuit Breakers
	320-1783-06	1	2000 Amp – DFHC	319-1962	1		Bar Assembly Kit, Neutral (Includes Parts Marked *)
			With Shunt Trip, Auxiliary Contacts, and Bell Alarm	8	337-2790	1	* Lug
	320-1783-09	1	1250 Amp	9	332-3303	1	* Standoff, Insulator
	320-1783-08	1	1600 Amp	10	332-2744-07	4	* Screw, Cap – Hex Head (3/8-16 x 1")
	320-1783-10	1	2000 Amp – DFHC	11	800-0050	4	* Washer, Flat (3/8")
			With Auxiliary Contacts and Bell Alarm	12	526-0029	7	* Washer, Lock – Spring (3/8")
	320-1783-18	1	1250 Amp	13	850-0050	11	* Screw, Cap – Hex Head (3/8-16 x 1-1/2")
	320-1783-17	1	1600 Amp	14	800-0052	7	* Strip, Copper (Used for wrapping ends of leads before securing to circuit breakers) (Quantity Used as Required)
	320-1783-19	1	2000 Amp – DFHC	15	091-0002	1	Screw, Cap – Hex Head (3/8-16 x 1")
			With Molded Case Switch				Washer, Lock – Spring (3/8")
	320-1907-01	1	1600 Amp				All Circuit Breakers Except 320-1907-01
	320-1907-02	1	2000 Amp – DFHC				Circuit Breaker 320-1907-01
3			Cover, Circuit Breaker Box	16	800-0050	1	
	319-1959-01	1	Merlin Gerin Circuit Breakers	17			
	319-1964	1	General Electric Circuit Breakers				
4			Lead (#1 Wire)		850-0050	1	
			General Electric				
			1/2" ID Ring to 1" Strip – 39" Long		850-0050	26	
	226-4406-03	15	All Circuit Breakers Except 320-1906-21				

* Parts Included in 337-2790 Neutral Bar Assembly Kit

Continued...

Circuit Breaker
UL Listed
DFHA, DFHB, DFHC Spec A

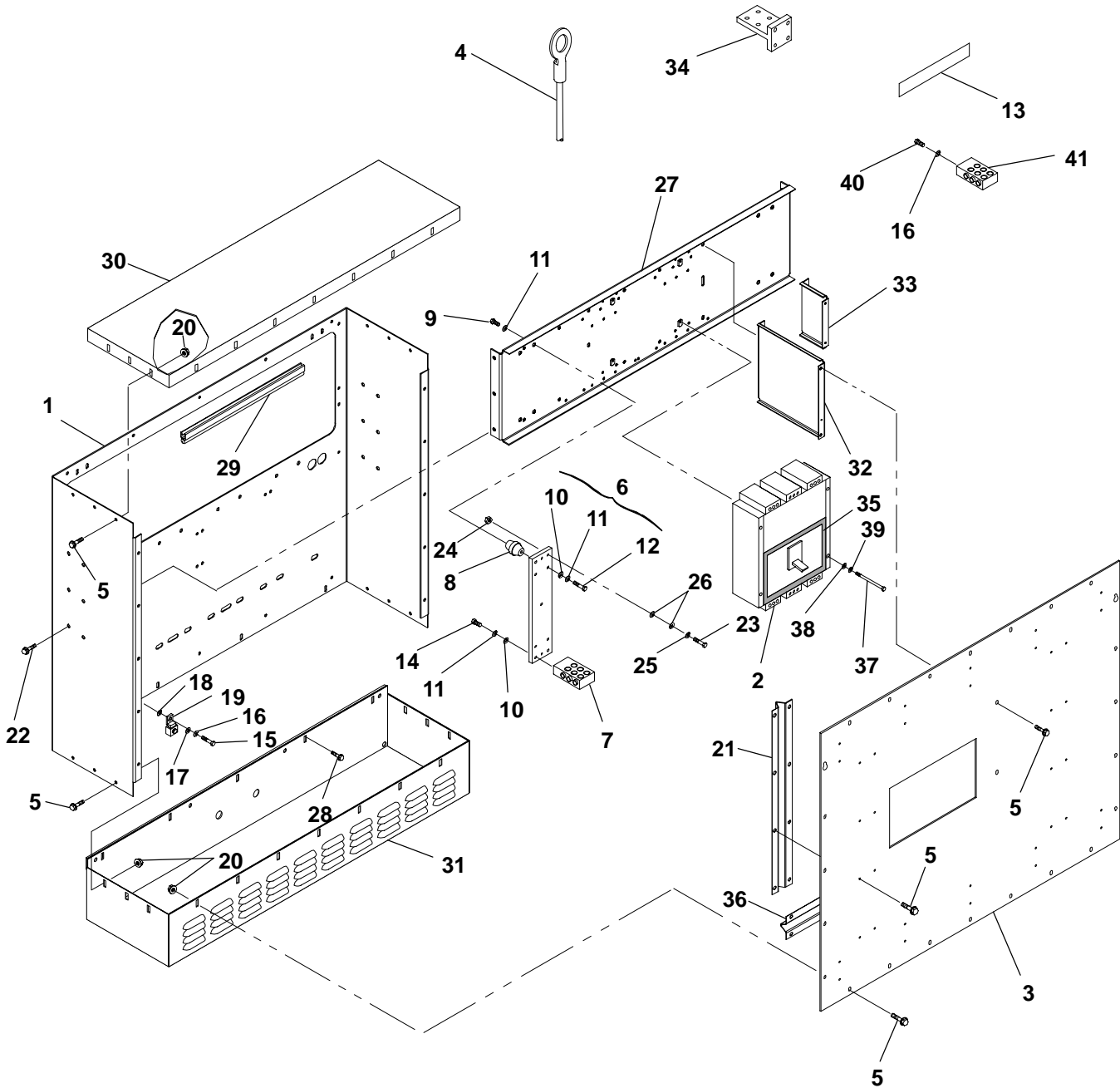


**Circuit Breaker
UL Listed
DFHA, DFHB, DFHC Spec A**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				34			Brace, Control Box Mount
18	526-0029	4	Washer, Flat (3/8")		319-2316-01	1	General Electric Circuit Breakers
	526-0029	2	General Electric Circuit Breakers		319-2316-02	1	Merlin Gerin Circuit Breakers
	526-0029	38	Merlin Gerin Circuit Breakers Except 320-1907-01	35	337-2789	2	Bar, Bus (Sold in Packages of 3 Pieces – 4 Pieces Required) (Used With Merlin Gerin Circuit Breakers)
19	332-2001	1	Merlin Gerin Circuit Breaker 320-1907-01	36			Stripping, Weather – Bulk (Order by the Foot)
20	332-1389	1	Lug, CSA Grounding – Solderless		895-0182	–	General Electric Circuit Breakers (1 Foot Required)
21	870-0494	26	Tie, Cable (Quantity Used as Required)		895-0182	–	Merlin Gerin Circuit Breakers (4 Feet Required)
22	319-2398	2	Nut, Self-Retaining (1/4-20)	37	319-2399	2	Brace, Cover (Horizontal)
23	821-0030	6	Brace, Cover (Vertical)	38	816-0098	36	Bolt, Carriage (5/16-18 x 5/8")
			Screw, Self-Locking – Hex Washer Head (3/8-16 x 1") (Used With Merlin Gerin Circuit Breakers Only)	39	870-0257	36	Nut, Locking (5/16-18)
24			Screw, Cap – Hex Head (1/2-13 x 2")	40	800-0033	4	Screw, Cap – Hex Head (5/16-18 x 2")
	800-0094	15	General Electric Circuit Breakers	41			Washer, Flat (5/16")
	800-0094	32	Merlin Gerin Circuit Breakers		526-0115	8	General Electric Circuit Breakers
25			Nut, Hex Head (1/2-13)		526-0115	4	Merlin Gerin Circuit Breakers
	862-0005	15	General Electric Circuit Breakers	42			Washer, Lock – Spring (5/16")
	862-0005	32	Merlin Gerin Circuit Breakers		850-0045	8	General Electric Circuit Breakers
26			Washer, Lock – Spring (1/2")		850-0045	4	Merlin Gerin Circuit Breakers
	850-0060	15	General Electric Circuit Breakers	43	856-0010	1	Washer, Lock W/EIT (3/8")
	850-0060	32	Merlin Gerin Circuit Breakers	44	319-2431-18	1	Cup, Circuit Breaker (Used with General Electric Circuit Breakers)
27			Washer, Flat (1/2")	45	870-0212	6	Nut, Self-Locking (1/4-20) (Used with General Electric Circuit Breakers)
	526-0219	30	General Electric Circuit Breakers	46	091-0002	1	Strip, Copper (Used for wrapping ends of leads before securing to circuit breakers) (Quantity Used as Required) (Used with General Electric Circuit Breakers)
	526-0219	64	Merlin Gerin Circuit Breakers	47	800-0031	4	Screw, Cap – Hex Head (5/16-18 x 1-1/2") (Used on General Electric Circuit Breakers)
28	821-0018	5	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")	48	800-0054	13	Screw, Cap – Hex Head (3/8-16 x 2") (Used with Merlin Gerin Circuit Breaker with Molded Case Switch)
29	821-0011	5	Screw, Self-Locking – Hex Washer Head (1/4-20 x 7/8")	49	862-0003	12	Nut, Hex (3/8-16) (Used with Merlin Gerin Circuit Breaker with Molded Case Switch)
30			Edging – Bulk (Order by the Foot – 3 Feet Required)				
	508-1092	–	Circuit Breakers with Molded Case Switch				
	508-1109	–	Circuit Breakers without Molded Case Switch				
31	319-1961	1	Cover, Control Box (Top)				
32	319-1925	1	Cover, Control Box (Bottom)				
33			Brace, Cover				
	319-1926-01	1	General Electric Circuit Breakers				
	319-1926-02	1	Merlin Gerin Circuit Breakers				

* Parts Included in 337-2790 Neutral Bar Assembly Kit

Circuit Breaker
UL Listed
DFHA, DFHB, DFHC Begin Spec B
DFHD Begin Spec A

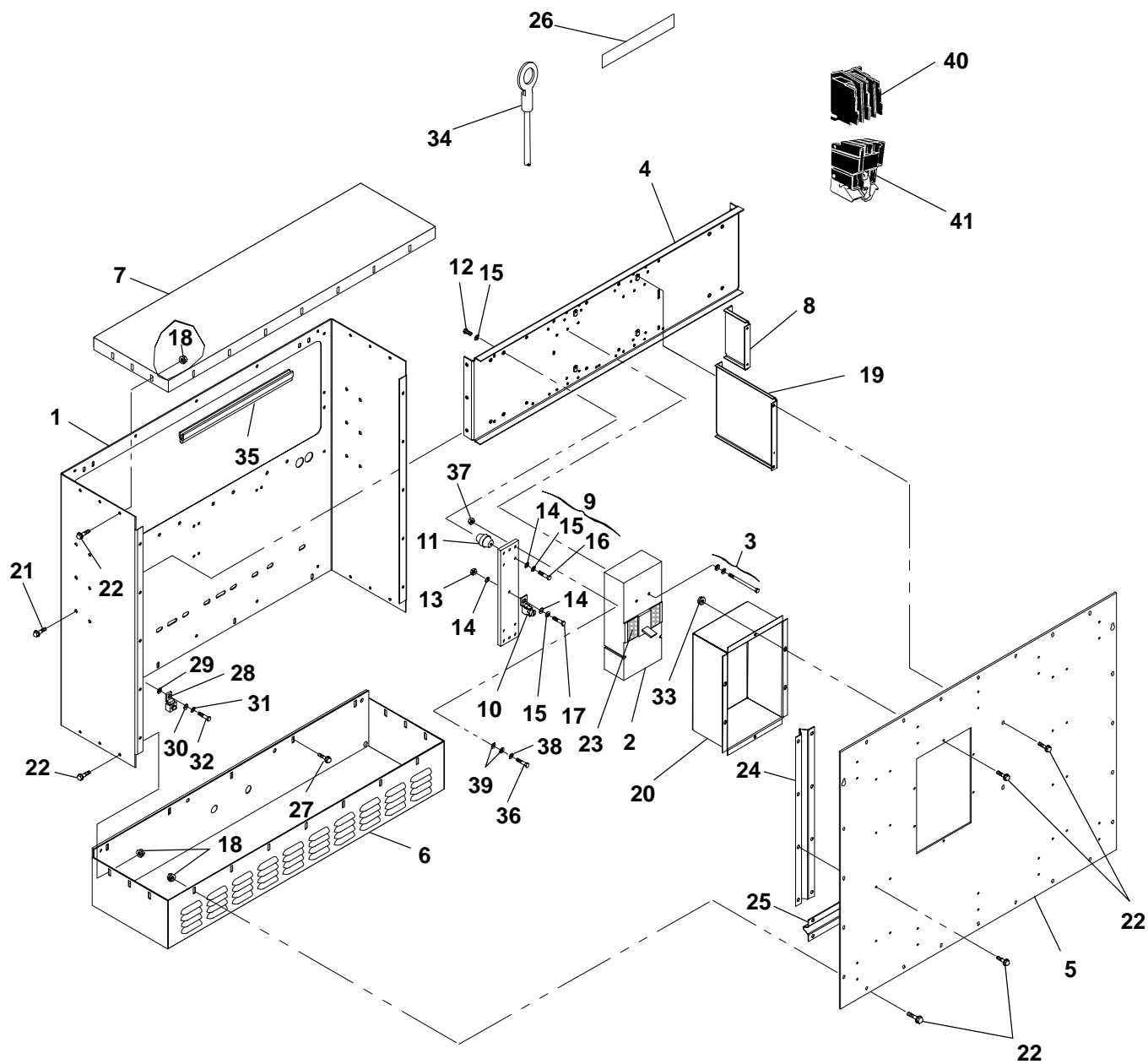


Circuit Breaker
UL Listed
DFHA, DFHB, DFHC Begin Spec B
DFHD Begin Spec A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3184	1	Wrapper, Circuit Breaker	13	091-0002	1	* Strip, Copper (Used for
2			Breaker, Circuit				wrapping ends of leads
			Standard				before securing to circuit
	320-1783-01	1	1250 Amp				Breakers) (Quantity Used
	320-1783	1	1600 Amp				as Required)
	320-1783-02	1	2000 Amp	14	800-2089	3	* Screw, Cap – Hex Head
	320-1783-03	1	2500 Amp				(M10 x 40mm)
			With Shunt Trip	15	800-2086	1	Screw, Cap – Hex Head
	320-1783-05	1	1250 Amp				(M10 x 25mm)
	320-1783-04	1	1600 Amp	16			Washer, Lock (M10)
	320-1783-06	1	2000 Amp		850-2010	10	1250 and 1600 Amp
	320-1783-07	1	2500 Amp				Breakers
			With Auxiliary Contacts		850-2010	1	2000 and 2500 Amp
			and Bell Alarm				Breakers
	320-1783-18	1	1250 Amp	17	526-2120	1	Washer, Flat (M10)
	320-1783-17	1	1600 Amp	18	856-0010	1	Washer – W/EIT
	320-1783-19	1	2000 Amp	19	332-2001	1	Lug, Solderless
	320-1783-20	1	2500 Amp	20	870-0504	26	Nut, Self-Retaining (M6)
			With Shunt Trip,	21	319-3286	2	Brace, Access Door (Vertical)
			Auxiliary Contacts and	22	821-6003-02	6	Screw, Hex Head
			Bell Alarm				(M8 x 20mm)
	320-1783-09	1	1250 Amp	23	800-2116	24	Screw, Cap – Hex Head
	320-1783-08	1	1600 Amp				(M12 x 50mm)
	320-1783-10	1	2000 Amp	24	860-2010	24	Nut, Hex (M12)
	320-1783-11	1	2500 Amp	25	850-2012	24	Washer, Lock – Spring (M12)
			With Molded Case Switch	26	526-2140	48	Washer, Flat (M12)
	320-1907-01	1	1600 Amp	27	319-3153	1	Bracket, Mounting
	320-1907-02	1	2000 Amp – DFHC,	28	821-2035	5	Screw, Self-Locking – Hex
			DFHD				Washer Head (M6 x 25mm)
3	319-3266-01	1	Cover, Circuit Breaker Box	29	508-1109	–	Edging – Bulk (Order By The
4			Lead (Quantity Used As				Foot – 3 Feet Required)
			Required) (Without	30	319-1961	1	Cover, Control Box (Top)
			Markings)	31	319-1925	1	Cover, Control Box (Bottom)
			6" Long	32	319-3252-02	1	Brace, Cover
	226-4404-04	1	.375" Stripped Terminal	33	319-3253-02	1	Brace, Circuit Breaker
			End to .375" Stripped				Mounting
			End	34			Bar, Bus (Sold in Packages
			30" Long				of 3 Pieces)
	226-4498-03	1	1/2" Ring Terminal End		337-2789	2	1250 and 1600 Amp
			to 1/2" Ring Terminal				Breakers (4 Pieces
			End				Required)
5			Screw, Hex Head		337-2789	1	2000 and 2500 Amp
			(M6 x 16mm)				Breakers (1 Piece
	821-6002-03	85	All Circuit Breakers				Required)
			Except 320-1907-01	35	895-0182	–	Stripping, Weather – Bulk
	821-6002-03	89	Circuit Breaker				(Order by the Foot – 4 Feet
			320-1907-01				Required)
6	300-4480	1	Bar Assembly, Neutral	36	319-3288	2	Brace, Access Door
			(Includes Parts Marked *)				(Horizontal)
7	332-3303-01	1	* Lug – 6X 600 MCM	37	800-2063	4	Screw, Cap – Hex Head
8	332-2744-07	4	* Standoff, Insulator				(M8 x 50mm)
9	800-0048	4	* Screw, Cap – Hex Head	38	526-2100	4	Washer, Flat (M8)
			(3/8-16 x 3/4")	39	850-2008	4	Washer, Lock – Spring (M8)
10	526-2120	7	* Washer, Flat (M10)	40	800-2089	9	Screw, Cap – Hex Head
11	850-2010	11	* Washer, Lock (M10)				(M10 x 40mm) (1250 and
12	800-0052	4	* Screw, Cap – Hex Head				1600 Amp Breakers)
			(3/8-16 x 1-1/2")	41	332-3303-01	3	Lug – 6X 600 MCM (1250
							and 1600 Amp Breakers)

* – Parts Included in 300-4480 Neutral Bar Assembly

Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
DFHA, DFHB, DFHC Begin Spec B
DFHD Begin Spec A

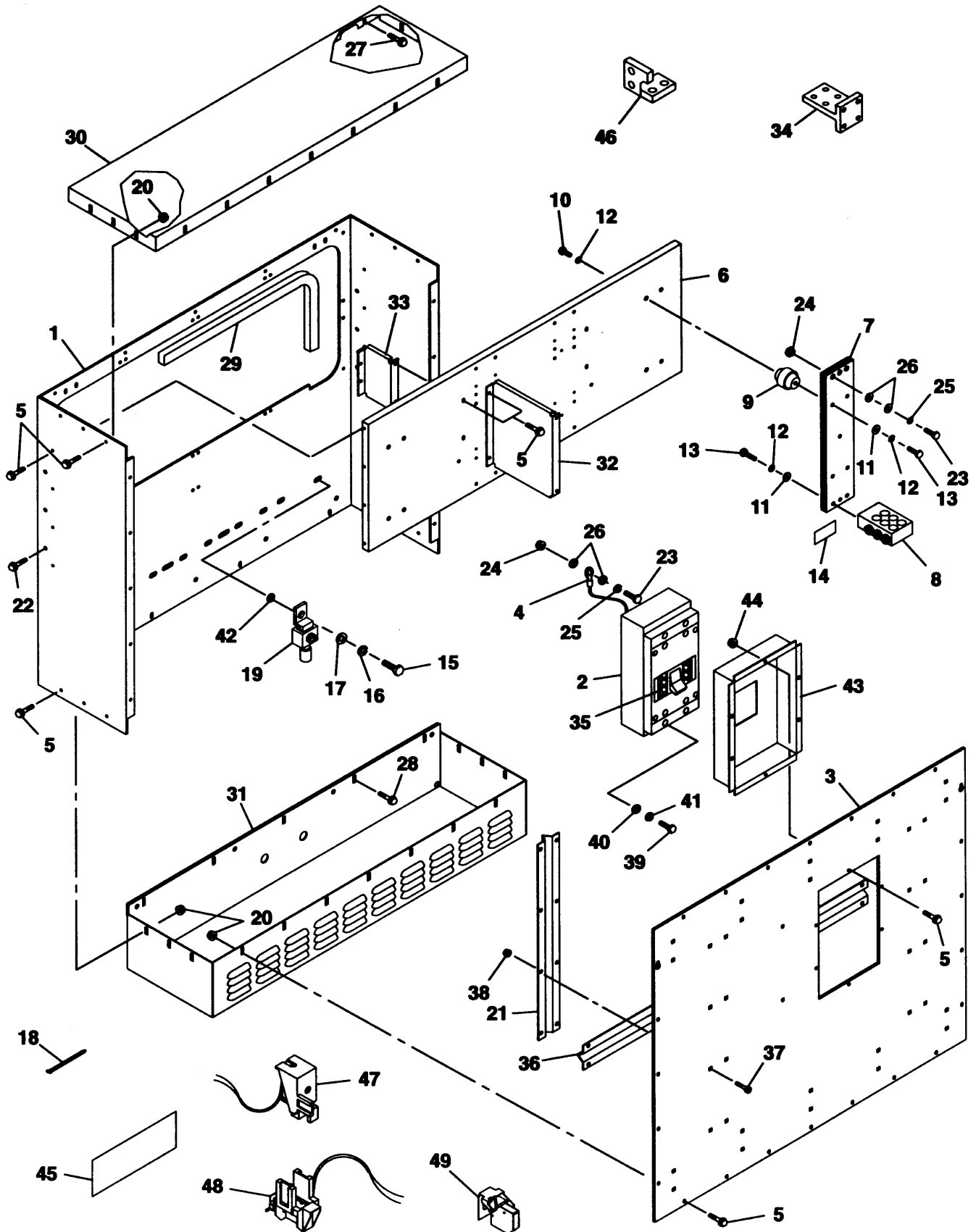


Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
DFHA, DFHB, DFHC Begin Spec B
DFHD Begin Spec A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3184	1	Wrapper, Circuit Breaker	26	091-0002	1	Strip, Copper (Used for
2			Breaker, Circuit – The				wrapping end of leads
			following Circuit Breakers				before securing to Circuit
			and Disconnect Switches				Breaker) (Quantity Used as
			include mounting hardware.				Required)
			Three Pole	27	821-2034	5	Screw, Self-Locking – Hex
	320-1964-02	1	1000 Amp				Washer Head (M6 x 20mm)
	320-1964-01	1	1200 Amp	28	332-2001	1	Lug, Solderless
			Four Pole (IEC)	29	856-0010	1	Washer – W/EIT (3/8")
	320-1964-07	1	1000 Amp – DFHC	30	526-2120	1	Washer, Flat (M10)
	320-1964-06	1	1250 Amp	31	850-2010	1	Washer, Lock (M10)
			Disconnect Switch	32	800-2086	1	Screw, Cap – Hex Head
	320-1992-01	1	1200 Amp				(M10 x 25mm)
3	320-1986-01	1	Package, Hardware – Circuit	33	870-2054	6	Nut, Locking – Hex Flange
			Breaker Mounting (Includes				Head (M6)
			Screws, Nuts and Lock	34			Lead (Quantity Used As
			Washers) – Used With				Required) (Without
			320-1964-XX and				Markings) (39")
			320-1992-01 Circuit		226-4406-03	1	1/2" Ring Terminal End
			Breakers				to 1" Stripped End
4	319-3153	1	Bracket, Mounting		226-4406-04	1	1/2" Ring Terminal End
5	319-3300	1	Cover, Circuit Breaker Box				to 1/2" Ring Terminal
6	319-1925	1	Cover, Control Box (Bottom)				End
7	319-1961	1	Cover, Control Box (Top)	35	508-1109	–	Edging – Bulk (Order by the
8	319-3253-01	1	Brace, Mounting				Foot – 3 Feet Required)
9	300-4318	1	Bar Assembly, Neutral (All	36			Screw, Cap – Hex Head
			except 4 Pole Circuit				(M12 x 40mm)
			Breakers) (Includes Parts		800-2114	10	3 Pole Breakers and
			Marked *)				Disconnect Switches
10	332-2001	3	* Lug, Solderless		800-2114	8	4 Pole Breakers
11	332-2744-07	2	* Standoff, Insulator	37			Nut, Hex (M12)
12	800-0048	2	* Screw, Cap – Hex Head		860-2010	10	3 Pole Breakers and
			(3/8-16 x 3/4")				Disconnect Switches
13	862-0003	3	* Nut, Hex (3/8")		860-2010	8	4 Pole Breakers
14	526-0029	8	* Washer, Flat (3/8")	38			Washer, Lock – Spring (M12)
15	850-0050	7	* Washer, Lock – Spring (3/8")		850-2012	10	3 Pole Breakers and
16	800-0051	2	* Screw, Cap – Hex Head				Disconnect Switches
			(3/8-16 x 1-1/4")		850-2012	8	4 Pole Breakers
17	800-0052	3	* Screw, Cap – Hex Head	39			Washer, Flat (M12)
			(3/8-16 x 1-1/2")		526-2140	20	3 Pole Breakers and
18	870-0504	30	Nut, Self-Retaining (M6)				Disconnect Switches
19	319-3252-01	1	Brace, Cover		526-2140	16	4 Pole Breakers
20	319-2431-28	1	Cup, Circuit Breaker				Accessories, Circuit
21	821-6003-02	6	Screw, Hex Head				Breaker: The following
			(M8 x 20mm)				are used on 320-1964-XX
22	821-6002-03	91	Screw, Hex Head				Circuit Breakers
			(M6 x 16mm)	40	320-1977-01	1	Switches – Includes 1
23	895-0182	–	Stripping, Weather – Bulk				Trip Alarm and 1
			(Order by the Foot – 1 Foot				Auxiliary Contact
			Required)	41	320-1977-03	1	24 Volt Shunt Trip
24	319-3286	2	Brace, Access Door (Vertical)				
25	319-3288	2	Brace, Access Door				
			(Horizontal)				

* – Parts Included in 300-4318 Neutral Bar Assembly

**Circuit Breaker
Non-UL Listed
DFHA, DFHB, DFHC Spec A**



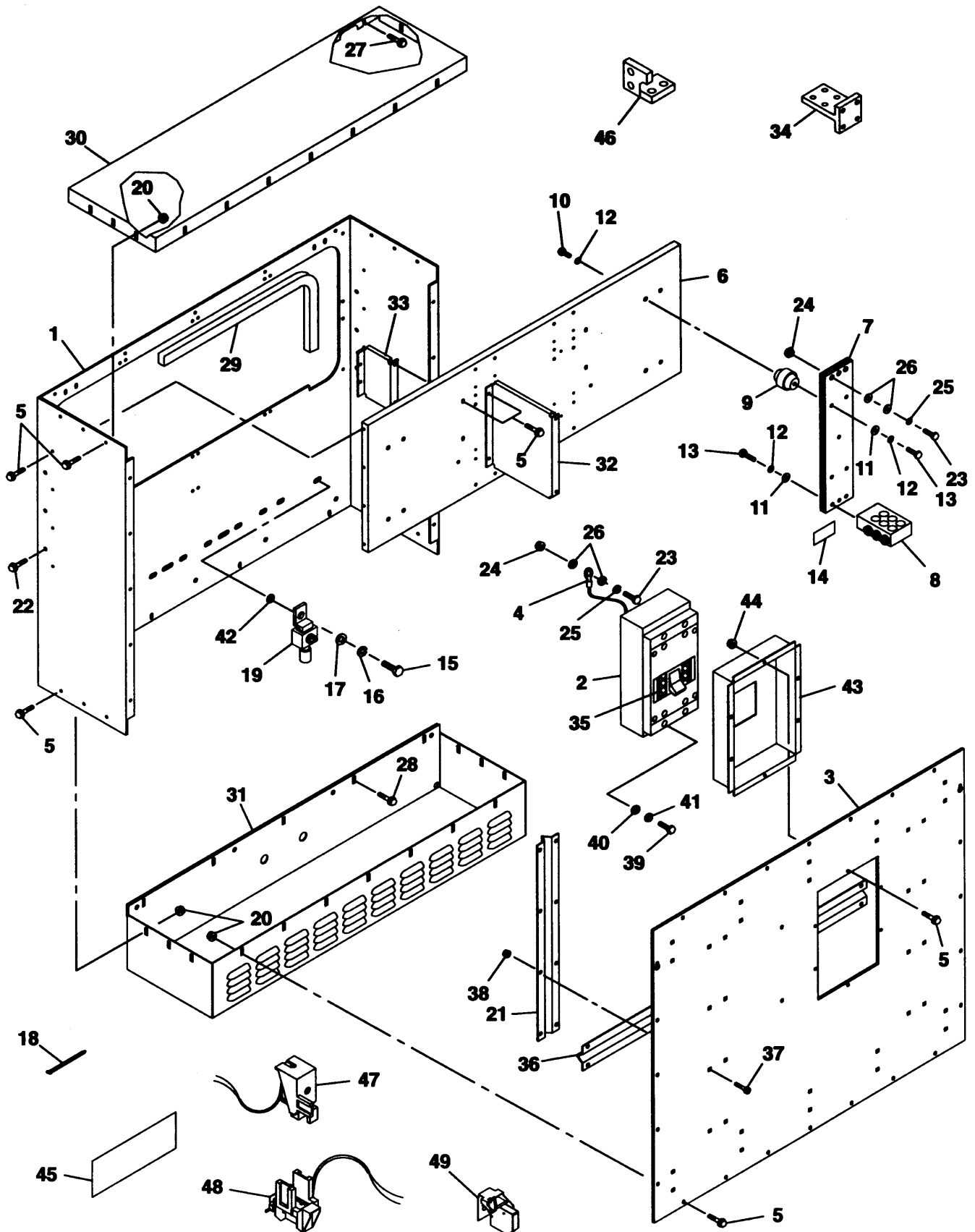
Circuit Breaker
Non-UL Listed
DFHA, DFHB, DFHC Spec A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1957	1	Wrapper, Circuit Breaker	5			Screw, Self-Locking – Hex
2			Breaker, Circuit (CB21)				Washer Head
			Three Pole Breakers				(1/4-20 x 1/2")
	320-1730-04	1	Standard – 750 Volt, 1250 Amp	821-0010	58		General Electric Circuit Breakers
			(General Electric) – DFHA, DFHB	821-0010	44		Merlin Gerin Circuit Breakers
	320-1699	1	Standard – 660 Volt, 1600 Amp	6			Bracket, Circuit Breaker Mounting
			(Merlin Gerin)	319-1963	1		General Electric Circuit Breakers
	320-1699-04	1	With Shunt Trip – 660 Volt, 1600 Amp	319-1962	1		Merlin Gerin Circuit Breakers
			(Merlin Gerin)				
	320-1699-08	1	With Shunt Trip, Auxiliary Contacts, and Bell Alarm – 660 Volt, 1600 Amp	7	337-2790	1	Bar Assembly Kit, Neutral (Used With 3 Pole Breakers) (Includes Neutral Bars, Labels, and Parts Marked *)
			(Merlin Gerin)				
			Four Pole Breakers	8	332-3303	1	* Lug
	320-1730-08	1	Standard – 750 Volt, 1250 Amp	9	332-2744-07	4	* Standoff, Insulator
			(General Electric) – DFHA, DFHB	10	800-0050	4	* Screw, Cap – Hex Head (3/8-16 x 1")
				11	526-0029	7	* Washer, Flat (3/8")
	320-1699-21	1	Standard – 660 Volt, 1600 Amp	12	850-0050	11	* Washer, Lock – Spring (3/8")
			(Merlin Gerin) – DFHB, DFHC	13	800-0052	7	* Screw, Cap – Hex Head (3/8-16 x 1-1/2")
				14	091-0002	1	* Strip, Copper (Used for wrapping ends of leads before securing to circuit breakers) (Quantity Used as Required)
	320-1699-25	1	With Shunt Trip – 660 Volt, 1250 Amp				
			(Merlin Gerin) – DFHB, DFHC	15	800-0050	1	Screw, Cap – Hex Head (3/8-16 x 1")
				16	850-0050	1	Washer, Lock – Spring (3/8")
	320-1699-29	1	With Shunt Trip, Auxiliary Contacts, and Bell Alarm – 660 Volt, 1600 Amp	17			Washer, Flat (3/8")
			(Merlin Gerin) – DFHB, DFHC		526-0029	4	General Electric Circuit Breakers
					526-0029	2	Merlin Gerin Circuit Breakers
3			Cover, Circuit Breaker	18	332-1389	1	Tie, Cable (Quantity Used As Required)
	319-1959-01	1	Merlin Gerin Three Pole Circuit Breakers	19	332-2001	1	Lug, CSA Grounding – Solderless
	319-1959-01	1	Merlin Gerin Four Pole Circuit Breakers (Right Side Mounted) – DFHB	20	870-0494	26	Nut, Self-Retaining (1/4-20)
	319-1959-02	1	Merlin Gerin Four Pole Circuit Breakers (Left Side Mounted) – DFHB	21	319-2398	2	Brace, Cover (Vertical)
	319-1964	1	General Electric Circuit Breakers	22	821-0030	6	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")
							(Used With Merlin Gerin Circuit Breakers)
4			Lead (#1 Wire)				
			General Electric	23			Screw, Cap – Hex Head (1/2-13 x 2")
			1/2" ID Ring to 1/2" ID Ring – 39" Long		800-0094	15	General Electric Circuit Breakers
	226-4406-04	21	Three Pole Circuit Breaker		800-0094	30	Merlin Gerin Circuit Breakers
	226-4406-04	18	Four Pole Circuit Breaker				
			Merlin Gerin				
	226-4498-03	32	1/2" ID Ring to 1/2" ID Ring – 30" Long				

* Parts Included in 337-2790 Neutral Bar Assembly Kit

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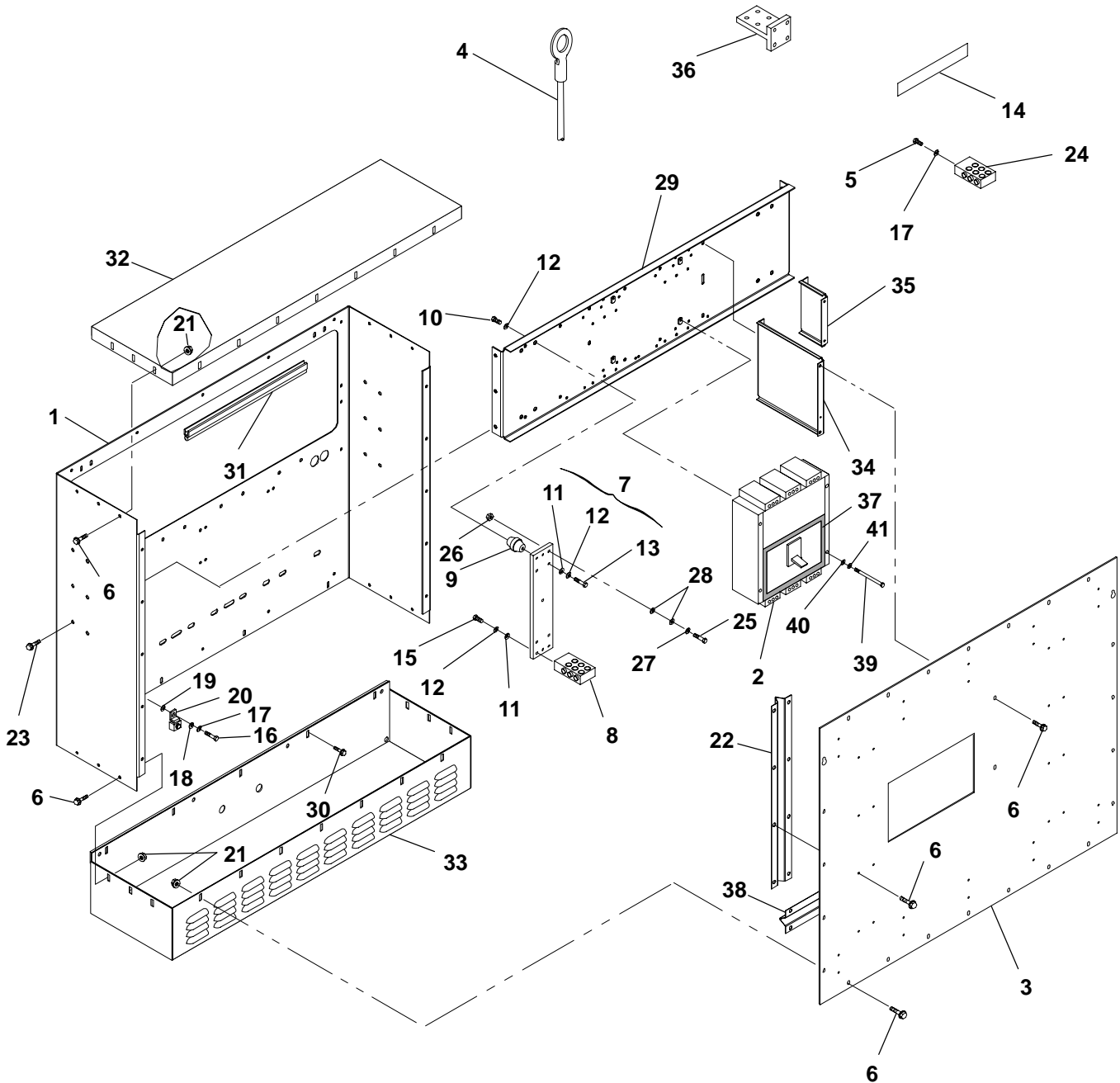
Circuit Breaker
Non-UL Listed
DFHA, DFHB, DFHC Spec A



**Circuit Breaker
Non-UL Listed
DFHA, DFHB, DFHC Spec A**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				36	319-2399	2	Brace, Cover (Horizontal)
24	862-0005	15	Nut, Hex Head (1/2-13) General Electric Circuit Breakers	37	816-0098	36	Bolt, Carriage (5/16-18 x 5/8")
	862-0005	30	Merlin Gerin Circuit Breakers	38	870-0257	36	Nut, Locking (5/16-18)
25	850-0060	15	Washer, Lock - Spring (1/2") General Electric Circuit Breakers	39	800-0033	4	Screw, Cap - Hex Head (5/16-18 x 2")
	850-0060	30	Merlin Gerin Circuit Breakers	40	526-0115	4	Washer, Flat (5/16")
26	526-0219	30	Washer, Flat (1/2") General Electric Circuit Breakers	41	850-0045	4	Washer, Lock - Spring (5/16")
	526-0219	60	Merlin Gerin Circuit Breakers	42	856-0010	1	Washer, Lock W/EIT (3/8")
27	821-0018	5	Screw, Self-Locking - Hex Washer Head (1/4-20 x 5/8")	43	319-2431-20	1	Cup, Circuit Breaker (Used with General Electric Circuit Breakers)
28	821-0011	5	Screw, Self-Locking - Hex Washer Head (1/4-20 x 7/8")	44	870-0212	6	Nut, Self-Locking (1/4-20) (Used with General Electric Circuit Breakers)
29	508-1109	-	Edging - Bulk (Order by the Foot - 3 Feet Required)	45	091-0002	1	Strip, Copper (Used for wrapping ends of leads before securing to circuit breakers) (Quantity Used as Required) (Used with General Electric Circuit Breakers)
30	319-1961	1	Cover, Control Box (Top)	46	320-1755-05	3	Lug, Breaker General Electric 3 Pole Circuit Breakers
31	319-1925	1	Cover, Control Box (Bottom)		320-1755-05	4	General Electric 4 Pole Circuit Breakers
32	319-1926-01	1	Brace, Cover General Electric Circuit Breakers	47	320-1749-04	1	Trip, Shunt (1250 Amp General Electric Circuit Breaker)
	319-1926-02	1	Merlin Gerin Circuit Breakers	48	320-1748-04	1	Alarm, Bell (1250 Amp General Electric Circuit Breaker)
33	319-2316-01	1	Brace, Control Box Mount General Electric Circuit Breakers	49	320-1747-08	1	Contact, Auxiliary (1250 Amp General Electric Circuit Breaker)
	319-2316-02	1	Merlin Gerin Circuit Breakers				
34	337-2789	2	Bar, Bus (Sold in Packages of 3 Pieces - 4 Pieces Required) (Used With Merlin Gerin Circuit Breakers)	* Parts Included in 337-2790 Neutral Bar Assembly Kit			
35	895-0182	-	Stripping, Weather - Bulk (Order by the Foot) General Electric Circuit Breakers (1 Foot Required)				
	895-0182	-	Merlin Gerin 3 Pole Circuit Breakers (4 Feet Required)				
	895-0182	-	Merlin Gerin 4 Pole Circuit Breakers (6 Feet Required)				

**Circuit Breaker
Non-UL Listed
DFHA, DFHB, DFHC Begin Spec B
DFHD Begin Spec A**



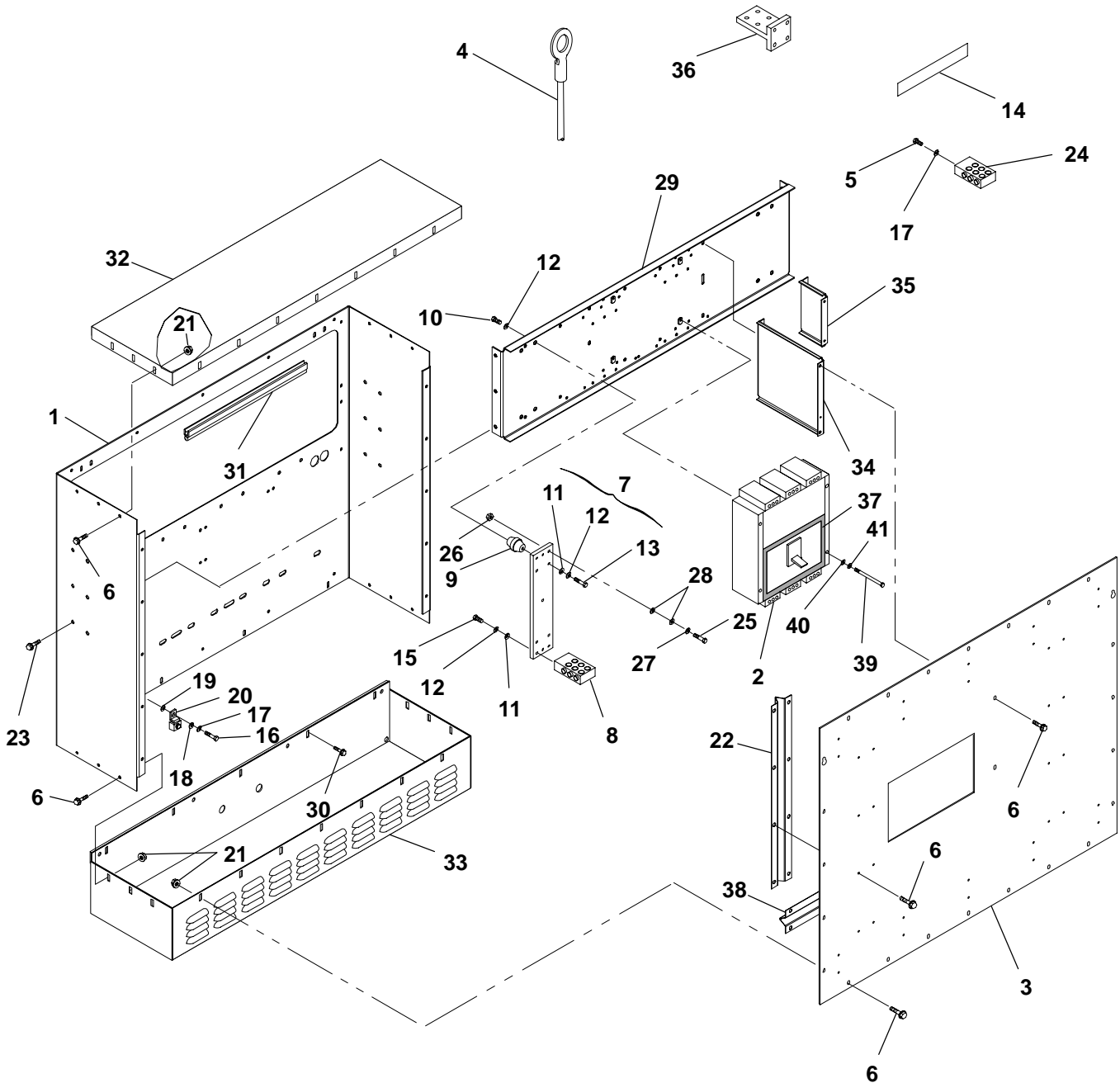
**Circuit Breaker
Non-UL Listed
DFHA, DFHB, DFHC Begin Spec B
DFHD Begin Spec A**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3184	1	Wrapper, Circuit Breaker	4			Lead (Quantity Used As Required) (Without Markings)
2			Breaker, Circuit				6" Long
			Three Pole Breakers				.375" Stripped Terminal End to .375" Stripped End
			Standard				30" Long
	320-1699	1	1600 Amp		226-4404-04	1	1/2" Ring Terminal End to 1/2" Ring Terminal End
	320-1699-02	1	2000 Amp – DFHC, DFHD				
			With Shunt Trip				
	320-1699-04	1	1600 Amp		226-4498-03	1	
	320-1699-06	1	2000 Amp – DFHC, DFHD				
			With Shunt Trip, Auxiliary Contacts and Bell Alarm	5			Screw, Cap – Hex Head (M10 x 40mm)
	320-1699-08	1	1600 Amp		800-2089	9	Three Pole Circuit Breakers
	320-1699-10	1	2000 Amp – DFHC, DFHD		800-2089	12	Four Pole Circuit Breakers
			Four Pole Breakers	6			Screw, Hex Head (M6 x 16mm)
			Standard				Three Pole Circuit Breakers
	320-1699-21	1	1600 Amp – DFHB, DFHC, DFHD		821-6002-03	89	Four Pole Circuit Breakers
	320-1699-23	1	2000 Amp – DFHC, DFHD		821-6002-03	81	
			With Shunt Trip	7	300-4480	1	Bar Assembly, Neutral – Three Pole Circuit Breakers (Includes Parts Marked *)
	320-1699-25	1	1600 Amp – DFHB, DFHC, DFHD				
	320-1699-27	1	2000 Amp – DFHC, DFHD	8	332-3303-01	1	* Lug – 6X 600 MCM
			With Shunt Trip, Auxiliary Contacts and Bell Alarm	9	332-2744-07	4	* Standoff, Insulator
				10	800-0048	4	* Screw, Cap – Hex Head (3/8-16 x 3/4")
	320-1699-29	1	1600 Amp – DFHB, DFHC, DFHD	11	526-2120	7	* Washer, Flat (M10)
	320-1699-31	1	2000 Amp – DFHC, DFHD	12	850-2010	11	* Washer, Lock (M10)
				13	800-0052	4	* Screw, Cap – Hex Head (3/8-16 x 1-1/2")
				14	091-0002	1	* Strip, Copper (Used for wrapping ends of leads before securing to circuit Breakers) (Quantity Used as Required)
3			Cover, Circuit Breaker Box				
	319-3266-01	1	Three Pole Circuit Breakers	15	800-2089	3	* Screw, Cap – Hex Head (M10 x 40mm)
	319-3266-02	1	Four Pole Circuit Breakers				

* – Parts Included in 300-4480 Neutral Bar Assembly

Continued...

**Circuit Breaker
Non-UL Listed
DFHA, DFHB, DFHC Begin Spec B
DFHD Begin Spec A**



**Circuit Breaker
Non-UL Listed
DFHA, DFHB, DFHC Begin Spec B
DFHD Begin Spec A**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				31	508-1109	–	Edging – Bulk (Order By The Foot – 3 Feet Required)
16	800-2086	1	Screw, Cap – Hex Head (M10 x 25mm)	32	319-1961	1	Cover, Control Box (Top)
17			Washer, Lock (M10)	33	319-1925	1	Cover, Control Box (Bottom)
	850-2010	10	Three Pole Circuit Breakers	34	319-3252-02	1	Brace, Cover
	850-2010	13	Four Pole Circuit Breakers	35	319-3253-02	1	Brace, Circuit Breaker Mounting
18	526-2120	1	Washer, Flat (M10)	36	337-2789	2	Bar, Bus (Sold in Packages of 3 Pieces) (4 Pieces Required)
19	856-0010	1	Washer, W/EIT	37		–	Stripping, Weather – Bulk (Order by the Foot)
20	332-2001	1	Lug, CSA Grounding – Solderless		895-0182	–	Three Pole Circuit Breakers (4 Feet Required)
21	870-0504	26	Nut, Self-Retaining (M6)		895-0182	–	Four Pole Circuit Breakers (6 Feet Required)
22			Brace, Access Door (Vertical)	38	319-3288	2	Brace, Access Door (Horizontal)
	319-3286	2	Three Pole Circuit Breakers	39	800-2063	4	Screw, Cap – Hex Head (M8 x 50mm)
	319-3286	1	Four Pole Circuit Breakers	40	526-2100	4	Washer, Flat (M8)
23	821-6003-02	6	Screw, Hex Head (M8 x 20mm)	41	850-2008	4	Washer, Lock – Spring (M8)
24			Lug – 6X 600 MCM	* – Parts Included in 300-4480 Neutral Bar Assembly			
	332-3303-01	3	Three Pole Circuit Breakers				
	332-3303-01	4	Four Pole Circuit Breakers				
25	800-2116	24	Screw, Cap – Hex Head (M12 x 50mm)				
26	860-2010	24	Nut, Hex (M12)				
27	850-2012	24	Washer, Lock – Spring (M12)				
28	526-2140	48	Washer, Flat (M12)				
29	319-3153	1	Bracket, Mounting				
30	821-2035	5	Screw, Self-Locking – Hex Washer Head (M6 x 25mm)				

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