



Parts Manual

Generator Set

with PowerCommand[®] 3100 Controller

DFHA (Spec A–G)

DFHB (Spec A–G)

DFHC (Spec A–F)

DFHD (Spec A–D)

MODEL IDENTIFICATION

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

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

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

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



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



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



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

PRODUCT SAFETY PRECAUTIONS



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



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



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



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

Introduction

This Parts Catalog applies to Cummins Power Generation 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 Cummins Power Generation are identified in this catalog. All other Engine replacement parts must be ordered from the engine manufacturer by referring to the engine manufacturers nameplate and supplying all available information. Contact your nearest engine parts distributor for assistance in ordering replacement parts.

Replacement Engine

Cummins Generator Model	Cummins Engine Model
620 DFHA (Spec A, B) 750 DFHA (Spec A, B) 620 DFHA (Spec C-G) 750 DFHA (Spec C-G)	QST30-G2 QST30-G2 QST30-G1 QST30-G1
700 DFHB 800 DFHB	QST30-G2 QST30-G2
800 DFHC 900 DFHC	QST30-G3 QST30-G3
880 DFHD 1000 DFHD	QST30-G4 QST30-G4

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.

Cummins

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Abbreviations

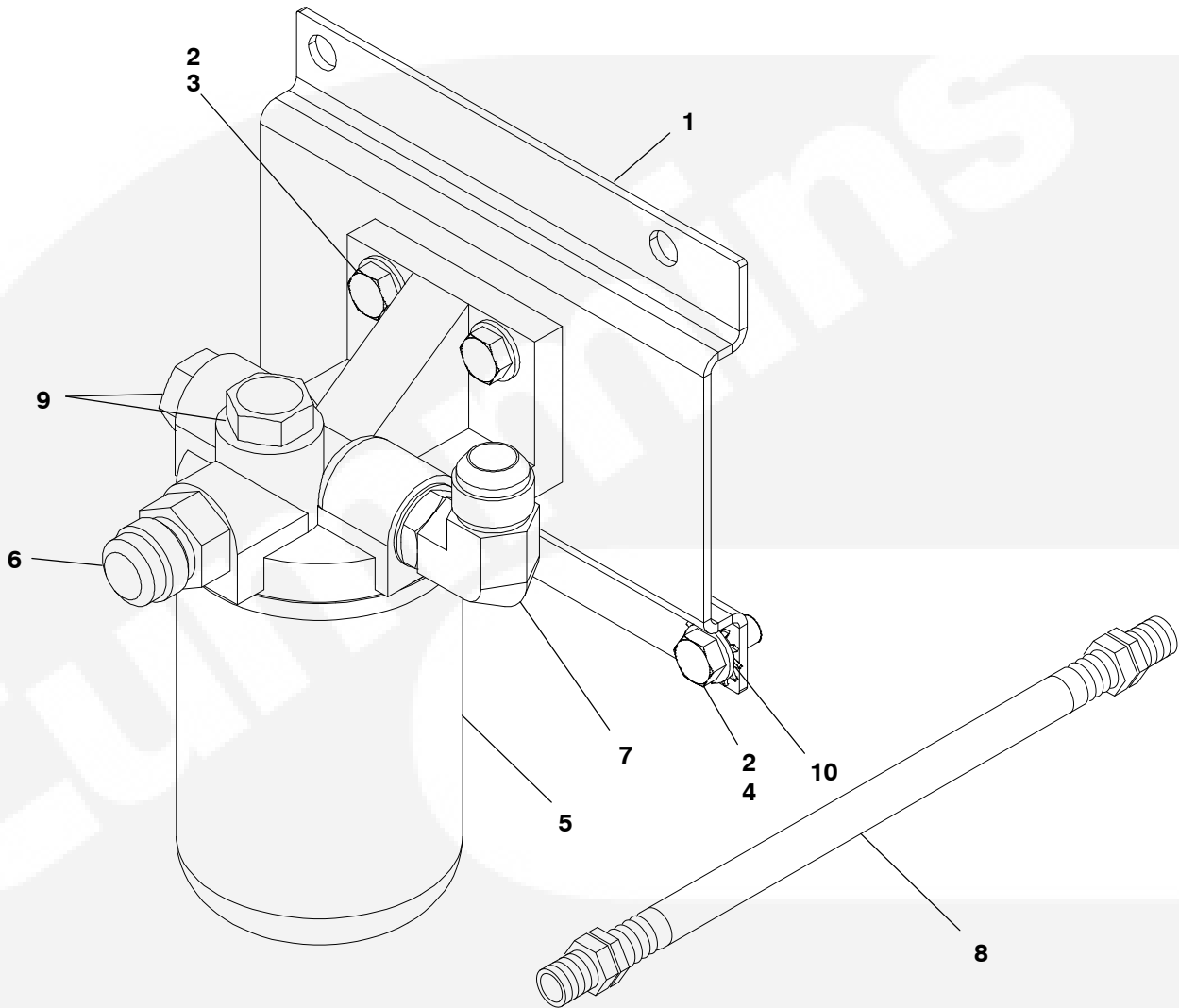
Some of the following abbreviations may be used throughout this Parts Catalog:

AC	Alternating Current	MCM	Metric Circular Mils
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
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)				
	525-0305	-	12 oz. Pressurized Spray Can				
	525-0306	-	Quart Can				
	525-0304	-	Gallon Can				
	518-0601	-	Sealant, Thread (6 ml. Tube)				

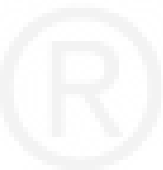
Fuel Filter
DFHA, DFHB Begin Spec G, DFHC Begin Spec F, DFHD Begin Spec D



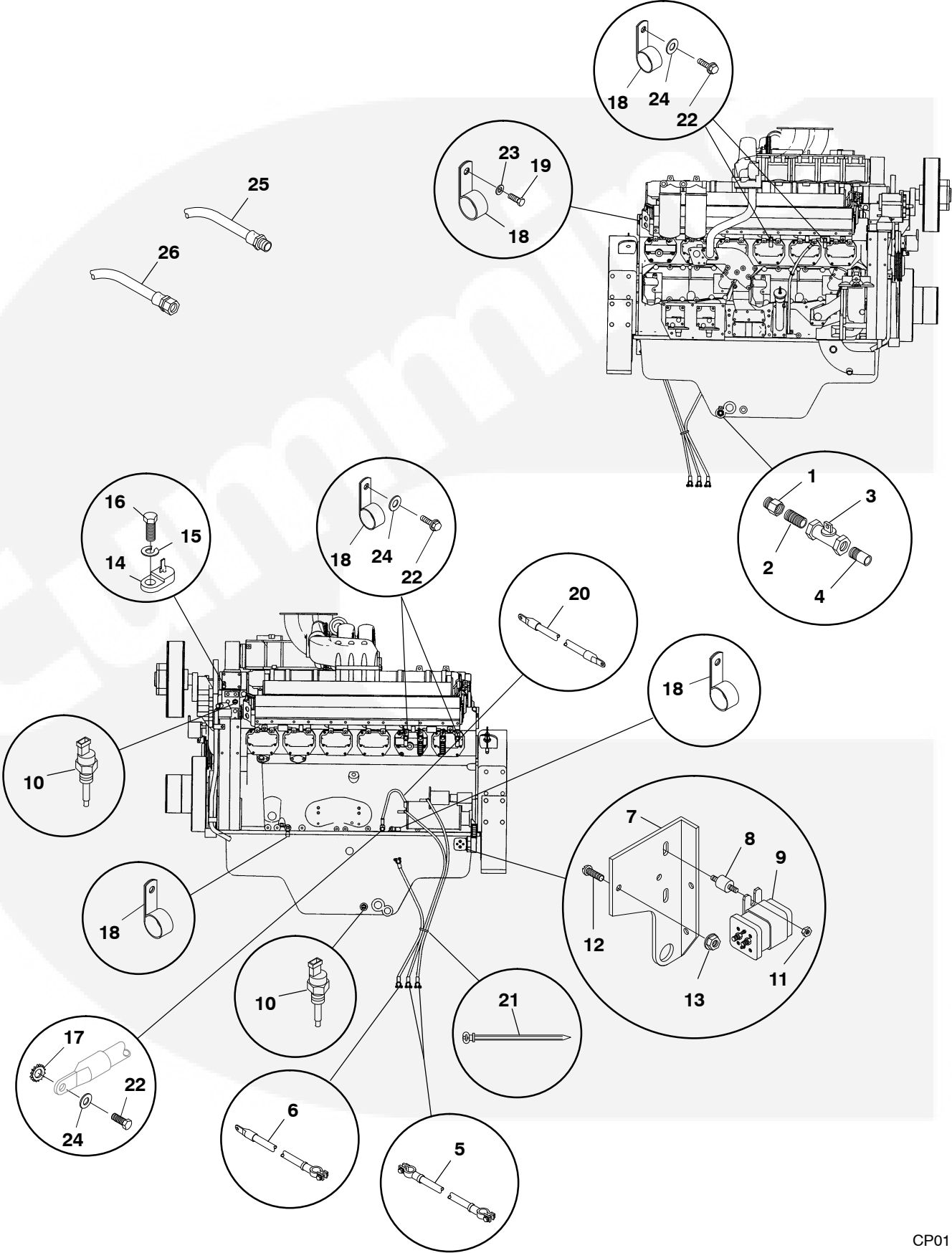
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2713-02	1	Bracket, Fuel Filter	6	505-1491	1	Adapter - 37° Tube
2	526-2120	4	Washer, Flat (M10)	7	502-1492	1	Adapter, Tube - Elbow
3	800-2087	2	Screw, Cap - Hex Head (M10 x 1.5 x 30)	8	501-0839	1	Line, Fuel - Flexible
4	800-2085	2	Screw, Cap - Hex Head (M10 x 1.5 x 20)	9	323-2129	2	Plug (7/8-14 O-Ring)
5	149-2714	1	Filter, Fuel - Assembly Filter, Fuel - Replacement - Fleetguard Part Number FF0220300	10	856-0010	1	Washer, Lock - W/EIT (3/8)



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External Engine Parts
DFHA, DFHB Spec A-E, DFHC Spec A-D, DFHD Spec A-B

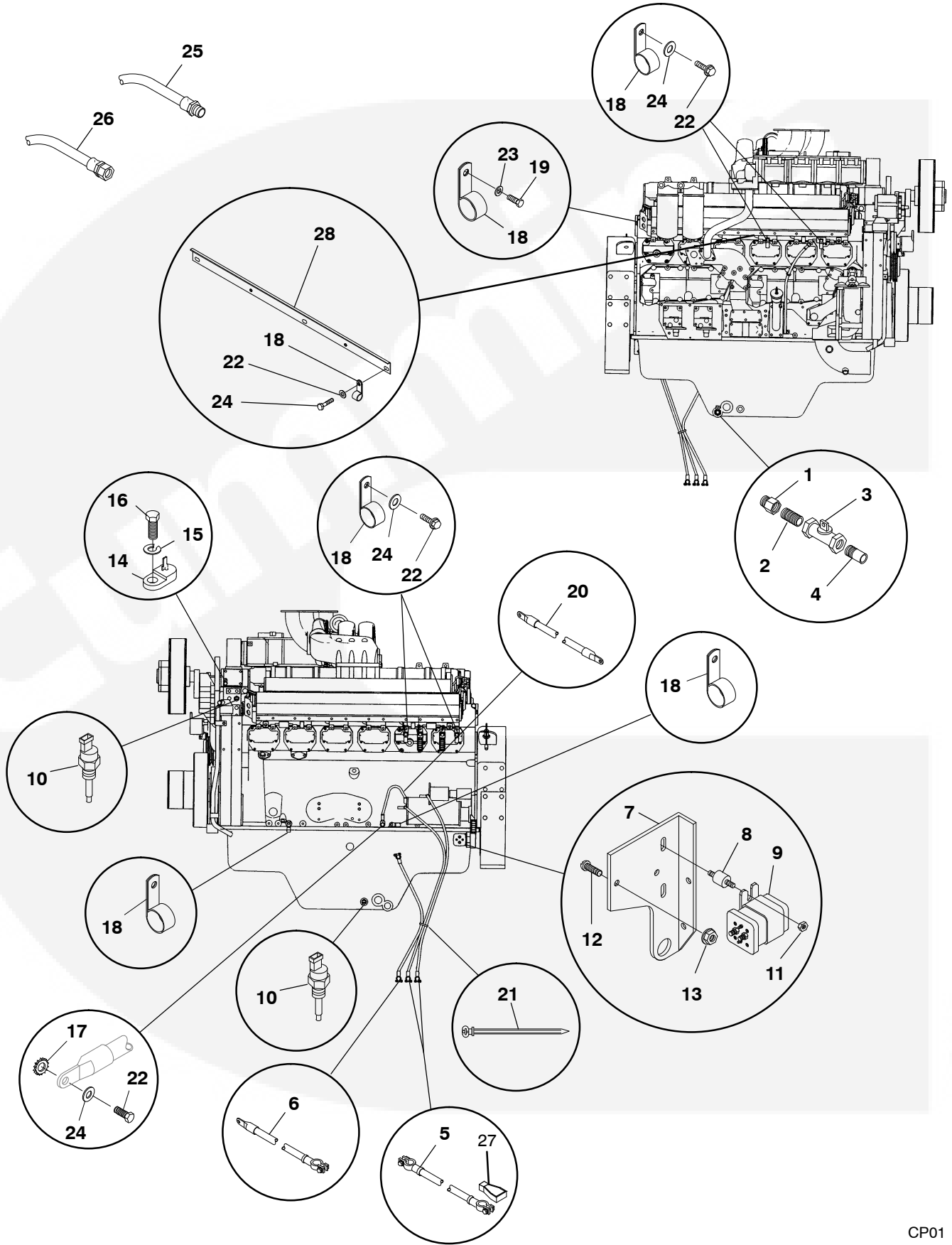


External Engine Parts
DFHA, DFHB Spec A-E, DFHC Spec A-D, DFHD Spec A-B

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				Washer, Lock - W/ET (M10)
4	505-0324	1	Nipple, Half (3/4" x 2")	17	856-0010	1	Clamp, J
5	416-0639	2	Cable, Battery	18	332-2634	8	Screw, Cap - Hex Head (M12 x 20mm)
6	416-0446	1	Cable, Jumper	19	800-2110	2	Cable, Starter
7	319-2236	1	Bracket, Pilot Solenoid	20	416-0680	1	Tie, Cable
8	402-0610	2	Isolator, Vibration	21	332-0941	1	Screw, Cap - Hex Head (M10 x 20mm)
9	307-2621-02	1	Solenoid, Pilot (24 Volt) (K4)	22	800-2085	7	Washer, Flat (M12)
10	193-0465	2	Sender, Oil & Coolant Temperature (E4)	23	526-2140	2	Washer, Flat (M10)
11	870-0212	4	Nut, Locking - Flange (1/4-20)	24	526-2120	7	Line, Flex Fuel (Fuel In)
12	812-0067	2	Screw, Machine - Round Head (#6-32 x 7/8")	25	501-0522	1	Line, Flex Fuel (Fuel Out)
13	870-0183	2	Nut, Locking - Flange W/ET (#6-32)	26	501-0520	1	
14	309-0269	1	Switch, Low Engine Temperature (S4)				



External Engine Parts
DFHA, DFHB Begin Spec F, DFHC Begin Spec E, DFHD Begin Spec C



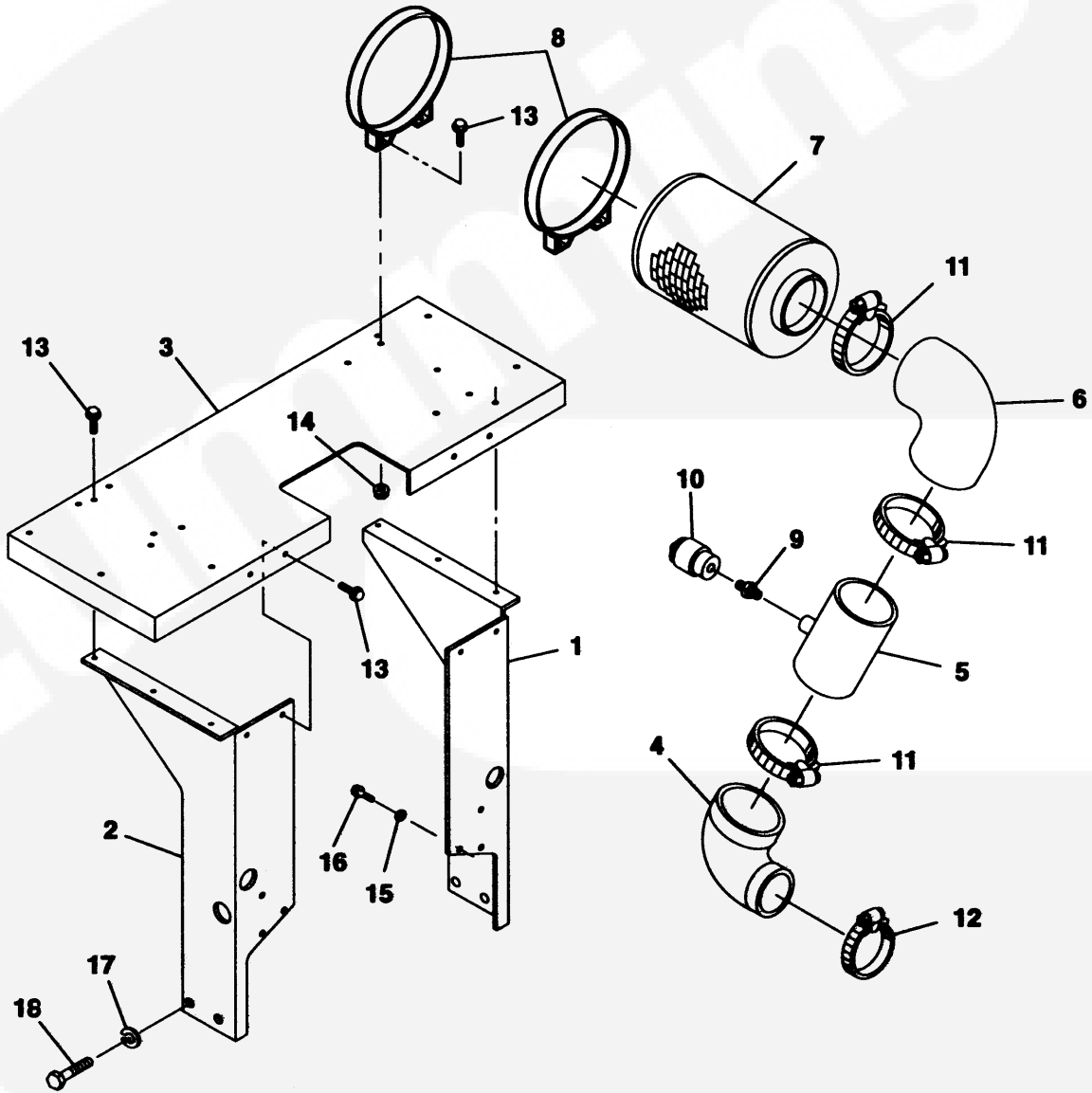
External Engine Parts
DFHA, DFHB Begin Spec F, DFHC Begin Spec E, DFHD Begin Spec C

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")	16	800-2088	1	Screw, Cap - Hex Head (M10 x 35mm)
2	505-0102	1	Nipple, Close (3/4")				
3	504-0171	1	Valve, Shutoff	17	856-0010	1	Washer, Lock - W/ET (M10)
4	505-0324	1	Nipple, Half (3/4" x 2")	18	332-2634	12	Clamp, J
5	416-1090	2	Cable, Battery	19	800-2110	2	Screw, Cap - Hex Head (M12 x 20mm)
6	416-1096	1	Cable, Jumper				
7	319-2236	1	Bracket, Pilot Solenoid	20	416-0680	1	Cable, Starter
8	402-0729	2	Isolator, Vibration	21	332-0941	2	Tie, Cable
9	307-2621-02	1	Solenoid, Pilot (24 Volt) (K4)	22	800-2085	10	Screw, Cap - Hex Head (M10 x 20mm)
10	193-0465	2	Sender, Oil & Coolant Temperature (E4)	23	526-2140	2	Washer, Flat (M12)
11	870-2054	4	Nut, Locking - Flange (M6 x 1.0)	24	526-2120	10	Washer, Flat (M10)
12	812-0067	2	Screw, Machine - Round Head (#6-32 x 7/8")	25	501-0699	1	Line, Flex Fuel (Fuel In)
13	870-0183	2	Nut, Locking - Flange W/ET (#6-32)	26	501-0698	1	Line, Flex Fuel (Fuel Out)
14	309-0269	1	Switch, Low Engine Temperature (S4)	27	416-1019	1	Boot, Battery - Red
15	850-2010	1	Washer, Lock - Spring (M10)	28	130-5587-02	1	Bracket, Tube

Note: Oil Pressure Sender is Supplied by the Engine Manufacturer.



**Air Cleaner
Standard
DFHA, DFHB Spec A-E, DFHC Spec A-E, DFHD Spec A**

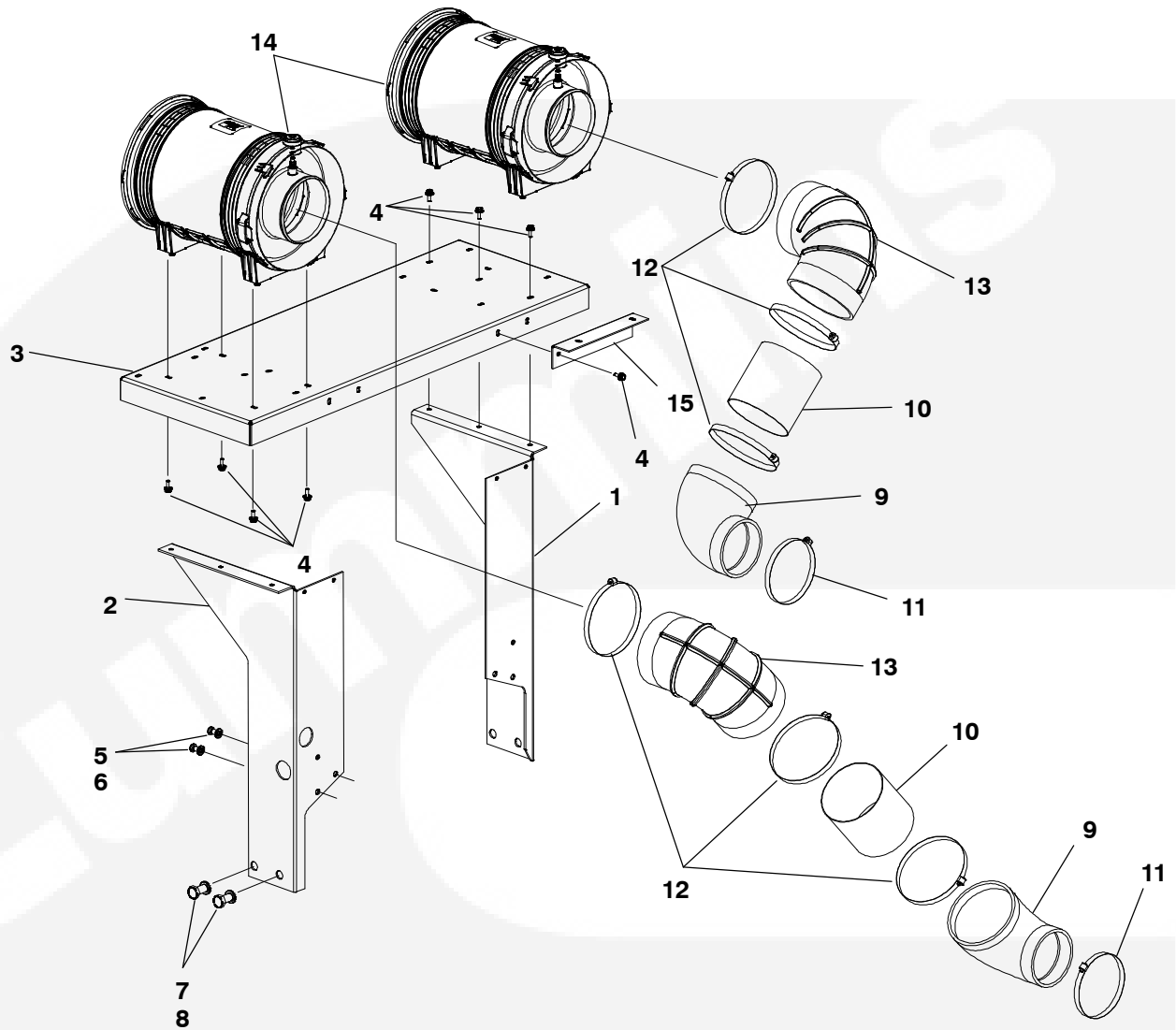


**Air Cleaner
Standard
DFHA, DFHB Spec A-E, DFHC Spec A-E, DFHD Spec A**

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

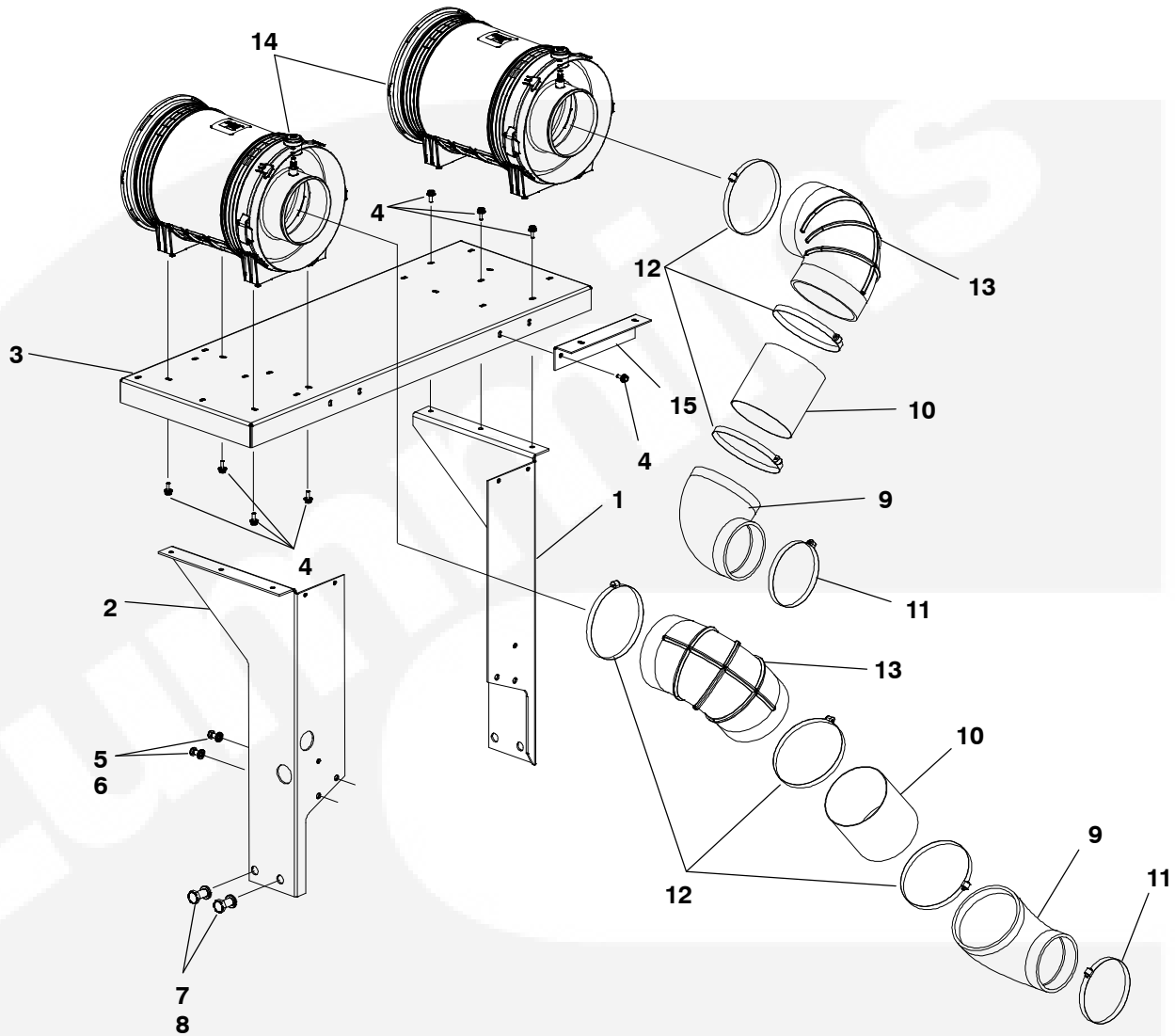


Air Cleaner Standard DFHD Spec B



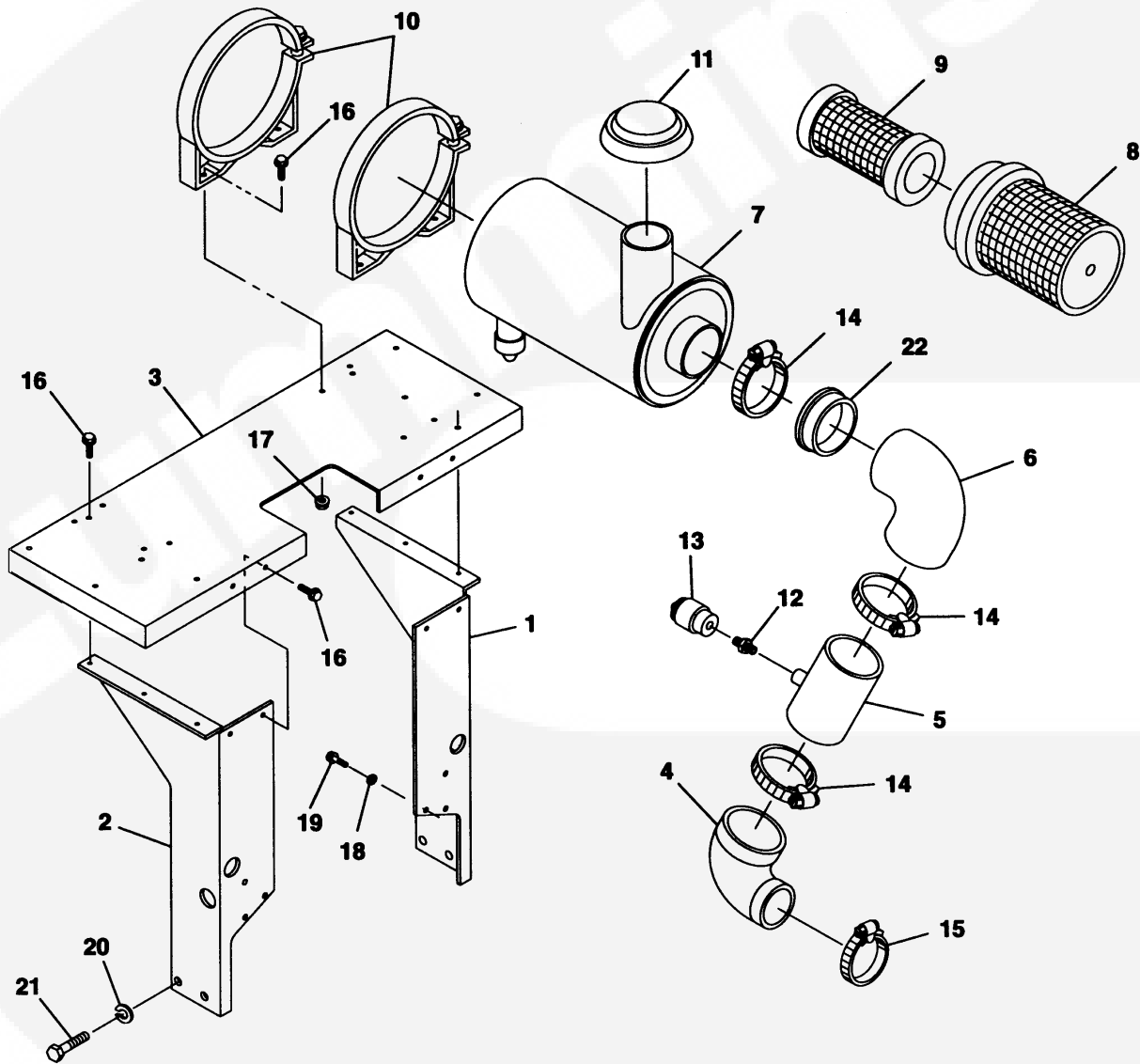
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3352-02	1	Bracket, Air Cleaner – Right Hand	8	800-2201	4	Screw, Cap – Hex Head (M20 x 2.5 x 35)
2	140-3353-02	1	Bracket, Air Cleaner – Left Hand	9	503-2102	2	Elbow, Reducing – 90° (7 x 5.5)
3	140-3340-02	1	Base, Air Cleaner	10	140-3361-02	2	Tube, Air Cleaner – Inlet
4	821-6003-02	18	Screw, Hex Head (M8 x 1.5 x 20)	11	503-1870-12	2	Clamp, Hose
5	526-2140	4	Washer, Flat (M12)	12	503-1870-14	6	Clamp, Hose
6	800-3017-52	4	Screw, Cap – Hex Head (M12 x 1.75 x 20)	13	503-0970	2	Elbow – 90° (7 x 7)
7	850-2020	4	Washer, Lock – Spring (M20)	14	140-3288-02	2	Cleaner, Air
				15	140-3384-02	1	Bracket, Air Cleaner

**Air Cleaner
Standard
DFHA, DFHB Begin Spec F**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3352-02	1	Bracket, Air Cleaner – Right Hand	8	800-2201	4	Screw, Cap – Hex Head (M20 x 2.5 x 35)
2	140-3353-02	1	Bracket, Air Cleaner – Left Hand	9	503-2017	2	Elbow, Reducing – 90° (7 x 5)
3	140-3340-02	1	Base, Air Cleaner	10	140-3361-02	2	Tube, Air Cleaner – Inlet
4	821-6003-02	18	Screw, Hex Head (M8 x 1.5 x 20)	11	503-1870-10	2	Clamp, Hose
5	526-2140	4	Washer, Flat (M12)	12	503-1870-14	6	Clamp, Hose
6	800-3017-52	4	Screw, Cap – Hex Head (M12 x 1.75 x 20)	13	503-0970	2	Elbow – 90° (7 x 7)
7	850-2020	4	Washer, Lock – Spring (M20)	14	140-3288-02	2	Cleaner, Air
				15	140-3384-02	1	Bracket, Air Cleaner

**Air Cleaner
Heavy Duty
DFHA, DFHB Spec A-E, DFHC Spec A-D, DFHD Spec A**

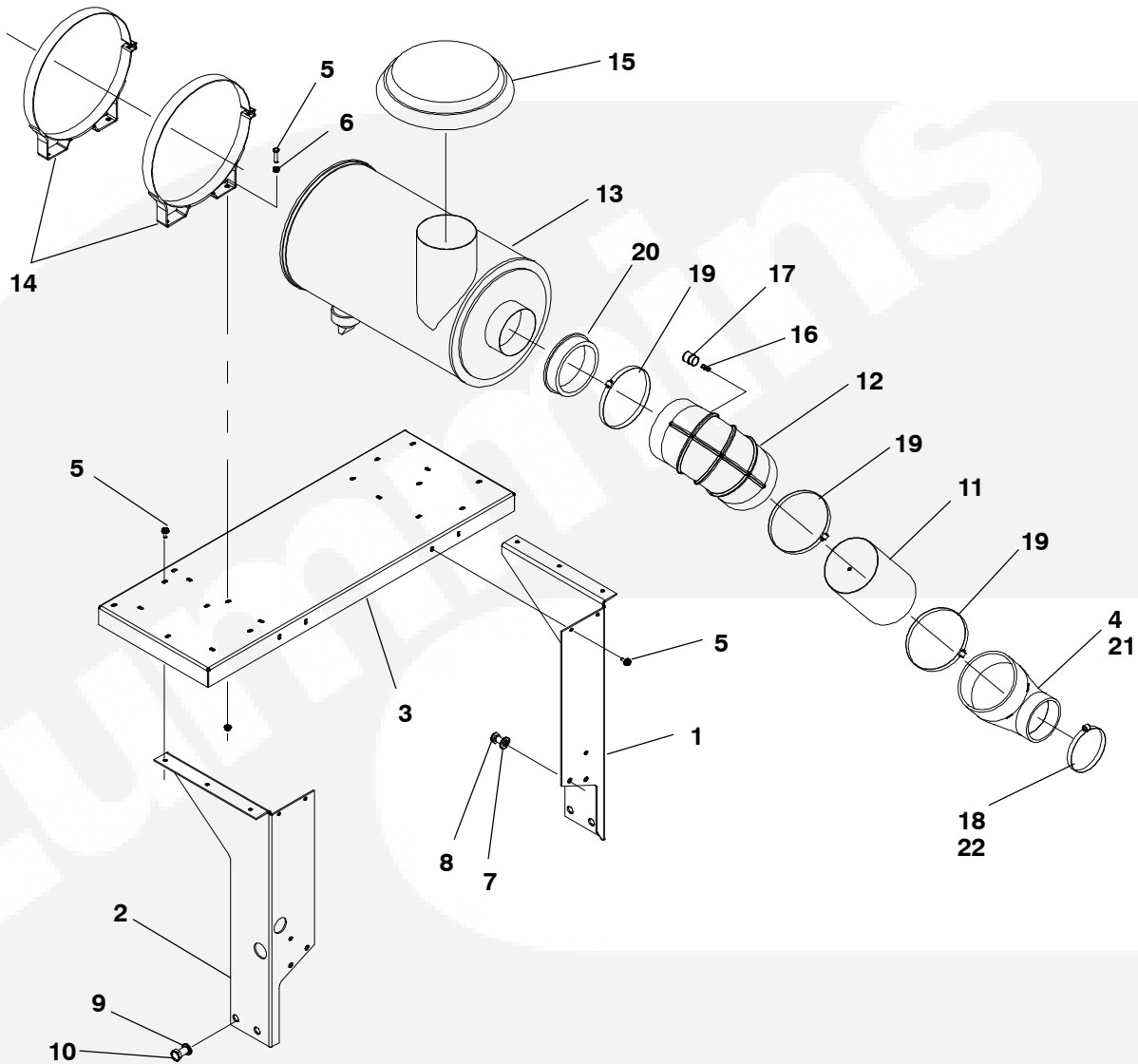


**Air Cleaner
Heavy Duty
DFHA, DFHB Spec A-E, DFHC Spec A-D, DFHD Spec A**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3020	1	Support, Side - Right Side	14	503-1870-14	6	Clamp, Hose
2	140-3026	1	Support, Side - Left Side	15			Clamp, Hose
3	140-3018	1	Tray, Support		503-1870-10	2	DFHA, DFHB Spec A-D, DFHC Spec A, B
4			Elbow, Reducing - 90°				DFHA, DFHB Spec E, DFHC Spec C, D, DFHD Spec A
	503-2017	2	DFHA, DFHB Spec A-D, DFHC Spec A, B		503-1870-11	2	
	503-2102	2	DFHA, DFHB Spec E, DFHC Spec C, D, DFHD Spec A	16	821-5003-03	18	Screw, Self-Locking - Hex Washer Head (5/16-18 x 3/4")
5	140-2508	2	Tube, Air Inlet				
6	503-0970	2	Elbow, 90°	17	870-0550-07	8	Nut, Hex Flange (5/16-18)
7	140-2301	2	Cleaner Assembly, Air (Includes Element)	18	526-2140	4	Washer, Flat (M12)
8	140-2465	2	Element, Air Cleaner - Primary	19	800-3017-52	4	Screw, Cap - Hex Head (M12 x 1.75 x 20mm)
9	140-2466	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 (M20 x 2.5 x 35mm)
11	140-1545	2	Hood, Air Inlet				
12	140-1260	2	Fitting, Service Indicator	22	503-2031	2	Insert, Reducer
13	140-1548	2	Indicator, Service				

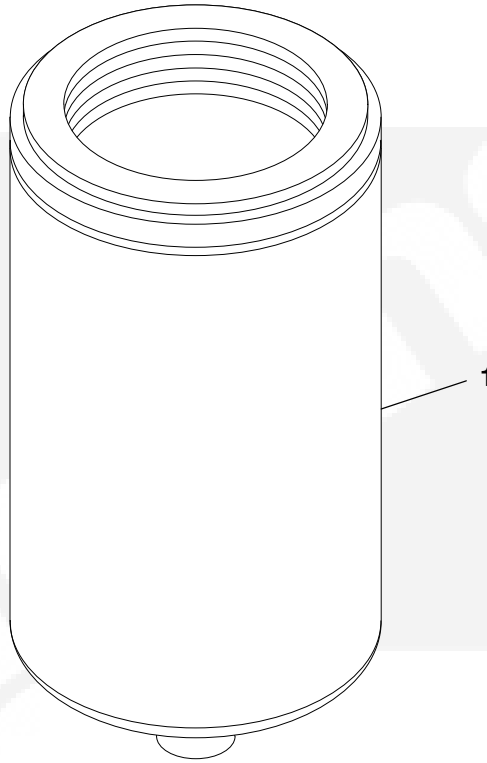


**Air Cleaner
Heavy Duty
DFHA, DFHB Begin Spec F, DFHC Begin Spec E, DFHD Begin Spec C**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3352-02	1	Bracket, Air Cleaner – Right Hand	11	140-2508	2	Tube, Air Cleaner – Inlet
2	140-3353-02	1	Bracket, Air Cleaner – Left Hand	12	503-0970	2	Elbow – 90° (7 x 7)
3	140-3340-02	1	Base, Air Cleaner	13	140-2301	2	Cleaner, Air
4	503-2102	2	Elbow, Reducing – 90° (7 x 5.5) – With MOH	14	140-2052	4	Band, Mounting (16" DIA.)
5	821-6003-02	18	Screw, Hex Head (M8 x 1.5 x 20)	15	140-1545	2	Hood
6	870-2065-03	8	Nut, Hex – Flange (M8 x 1.5)	16	140-1260	2	Fitting, Safety
7	526-2140	4	Washer, Flat (M12)	17	140-1548	2	Indicator, Service
8	800-3017-52	4	Screw, Cap – Hex Head (M12 x 1.75 x 20)	18	503-1870-11	2	Clamp, Hose – With MOH
9	850-2020	4	Washer, Lock – Spring (M20)	19	503-1870-14	6	Clamp, Hose
10	800-2201	4	Screw, Cap – Hex Head (M20 x 2.5 x 35)	20	503-2031	2	Insert, Reducer (6 x 7)
				21	503-2017	2	Elbow, Reducing – 90° (7 x 5) – Without MOH
				22	503-1870-10	2	Clamp, Hose – Without MOH

Fuel/Water Separator

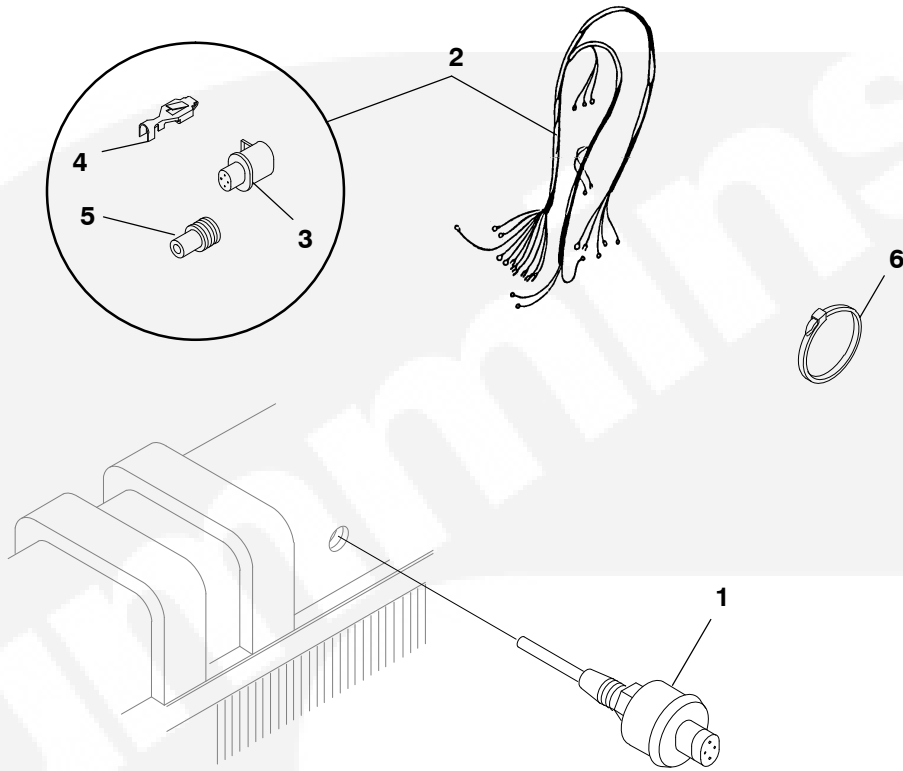


C127

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



Low Coolant Level Sender



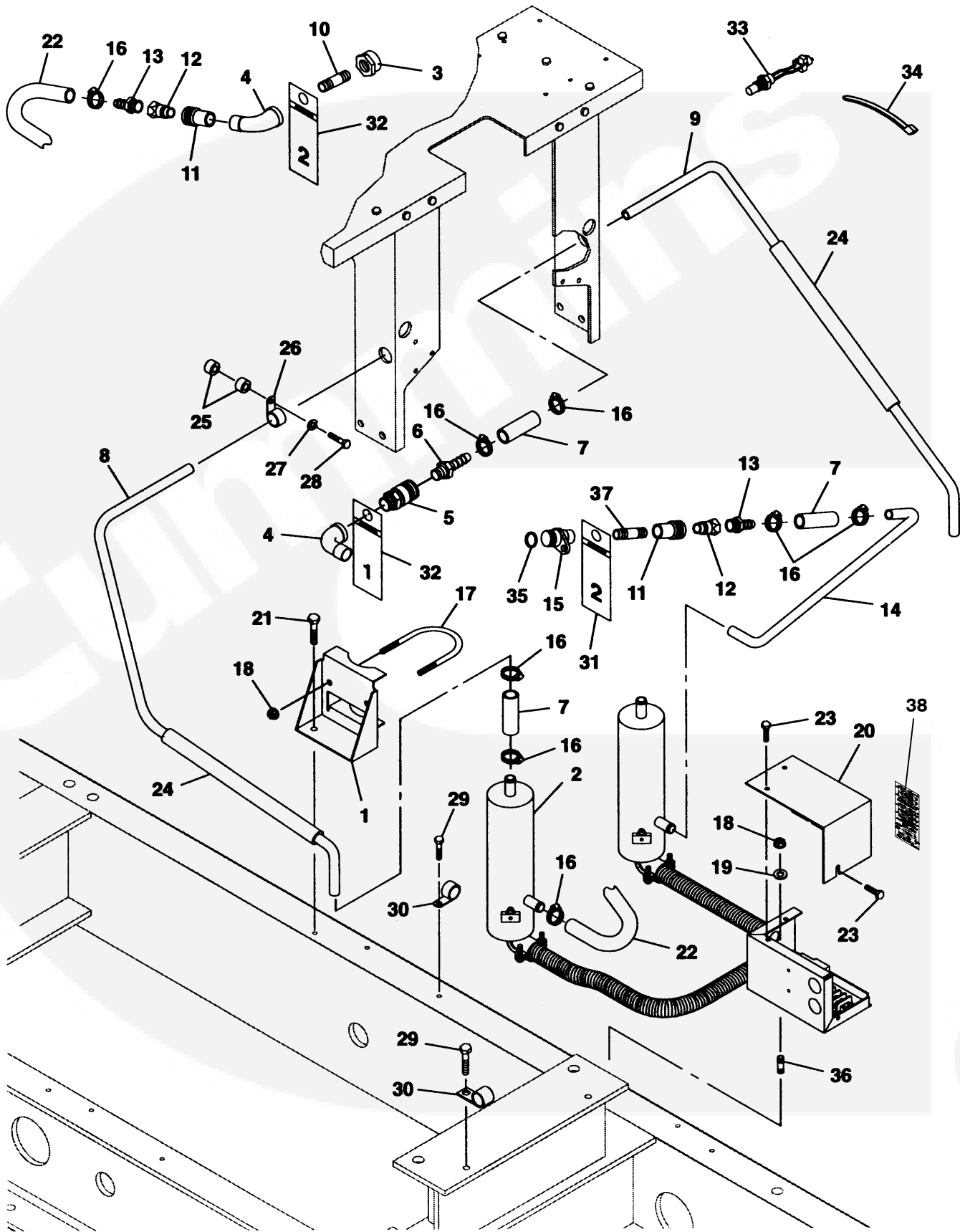
CP01

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)	6	332-1389	1	Tie, Cable (Quantity Used as Required)
2	338-3594	1	Harness, Pigtail (Includes Parts Marked *)	* - Parts Included in 338-3594 Pigtail Harness			
3	323-1765	1	*Housing, Connector (4 Pin)				
4	323-1709	4	*Socket, Contact				
5	323-1708	4	*Seal, Cable				

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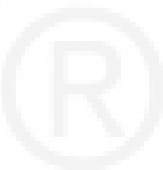
Water Heater



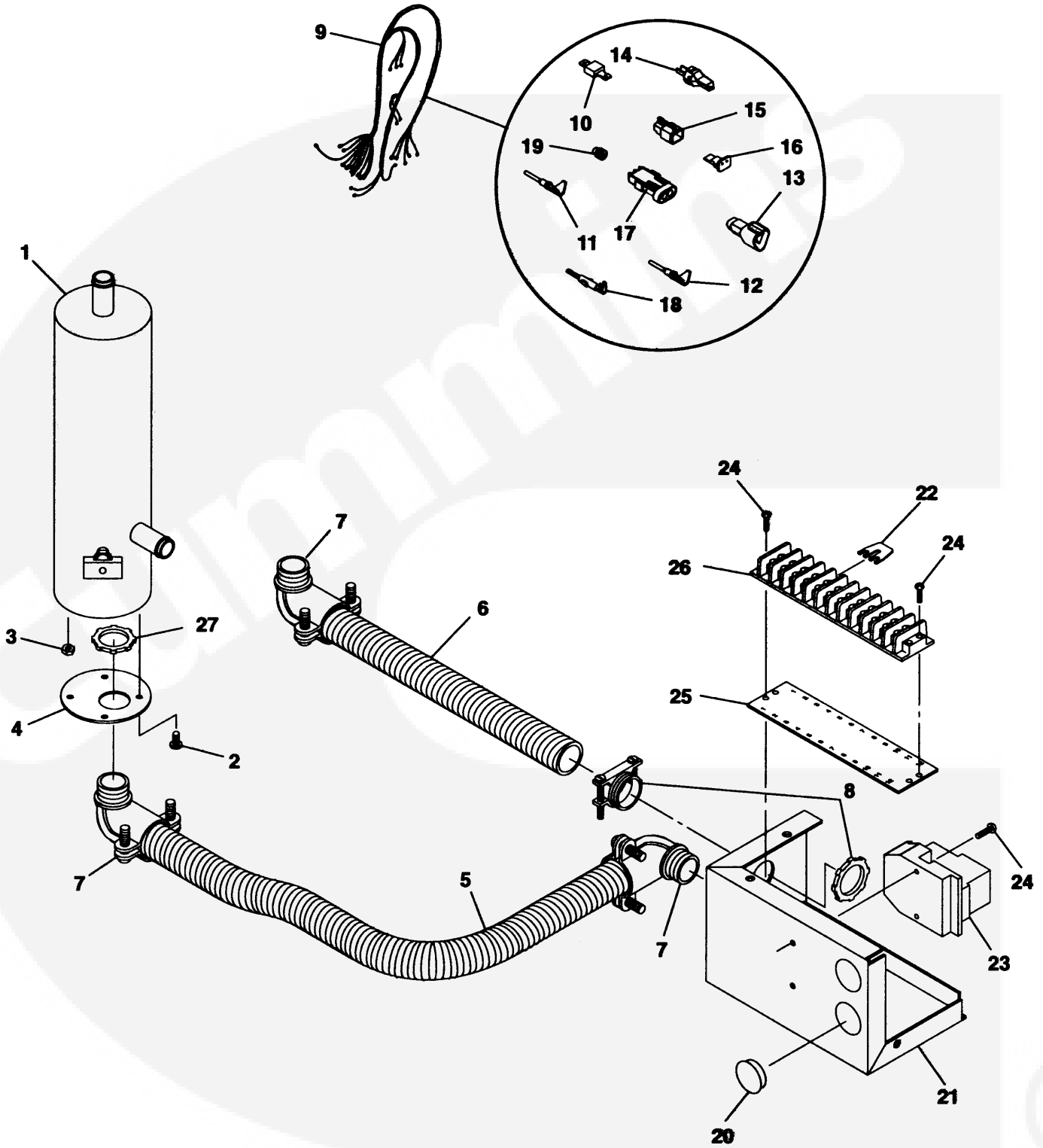
H556,H557

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	A029C090	1	Hose, Water
2	—	1	Control, Water Heater (See Pages 28 and 29 for Components)	23	821-5002-03	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
3	505-0022	1	Bushing, Reducer (1" to 3/4")	24	128-0108	–	Insulation, Water Tube (7/8" ID) – Bulk (Order by the Foot – 7 Feet Required)
4	505-0050	3	Elbow, 90° Street (1/2")	25	370-4038	4	Spacer (13/32 ID x 1/2")
5	502-1259	2	Coupler, Water Heater (1/2" OD)	26	518-0548-15	2	Clamp, Hose
6	502-1257	2	Connector, Hose Barb – Water Heater (3/4" OD)	27	850-0114-07	2	Washer, Lock – Spring (3/8")
7	503-3062-01	6	Hose, Rubber	28	800-0054	2	Screw, Cap – Hex Head (3/8-16 x 2")
8	130-4650	1	Tube, Water Heater	29	821-5004-02	5	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")
9	130-4649	1	Tube, Water Heater	30	332-2634	10	Clamp, J
10	505-0106	1	Nipple, Pipe – Short (1/2" x 1-1/2")	31	098-7182-02	2	Tag, Label
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	Thermostat, S11
13	502-0827	2	Barb, Hose (3/4" OD)	34	332-0941	1	Tie, Cable (Quantity Used as Required)
14	130-4651	1	Tube, Water Heater	35	509-0341	1	O-Ring
15	502-1282	1	Fitting, Tube (Heater)	36	520-0544	2	Stud, Generator Mounting
16	503-2157-02	14	Clamp, Hose	37	505-0078	1	Nipple, Pipe (1/2" x 2-1/2")
17	155-3021	2	Clamp, Water Heater	38	098-7183	1	Label, Relay Box
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

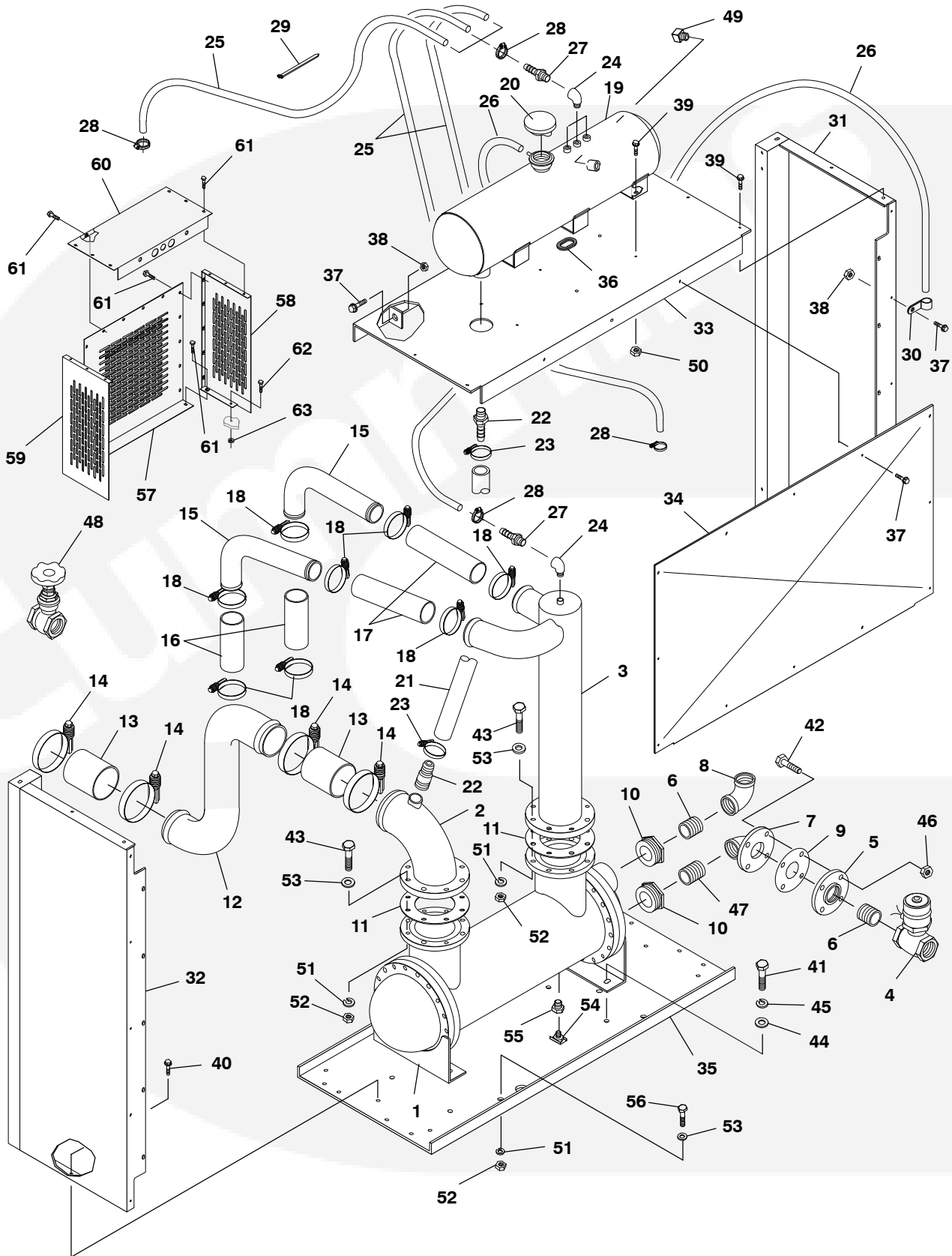


Water Heater Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater, Water	12	323-1492	A/R	* Terminal, Socket
	333-0639-01	2	4990 Watt	13	323-1494	A/R	* Connector, Receptacle (3 Pin)
	333-0639-02	2	6420 Watt				
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)
				15	323-1504	2	* Connector, Plug (2 Socket)
				16	323-1500	2	* Wedge, Plug (2 Socket)
3	870-0131	6	Nut, Hex – W/ET (#10-32)	17	323-1652	1	* Plug (2 Pin)
4	130-4552	2	Cover, Water Heater Control	18	323-1718	A/R	* Terminal, Pin
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)	19	323-1576	2	* Seal, Cable
				20	517-0138-02	2	Plug, Hole (1" OD)
				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)
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)	24	815-0447	4	Screw, Machine – Round Head, Cross Recessed W/IT (#8-32 x 3/4")
7	331-0554	3	Conduit Connector – 90° (3/4")	25	332-1469	1	Strip, Marker
8	331-0042	1	Connector, Romex (3/4")	26	332-1468	1	Block, Terminal – 12 Place (TB1)
9	338-3463	1	Harness, Engine Heater (Includes Parts Marked *)	27	331-0555	3	Nut, Connector Lock (3/4-14)
10	357-0030	1	* Rectifier, Silicon (6 Amp) (CR1)				
11	323-1491	A/R	* Terminal, Pin				

* Parts Included in 338-3463 Engine Heater Harness

Heat Exchanger DFHA, DFHB, DFHC

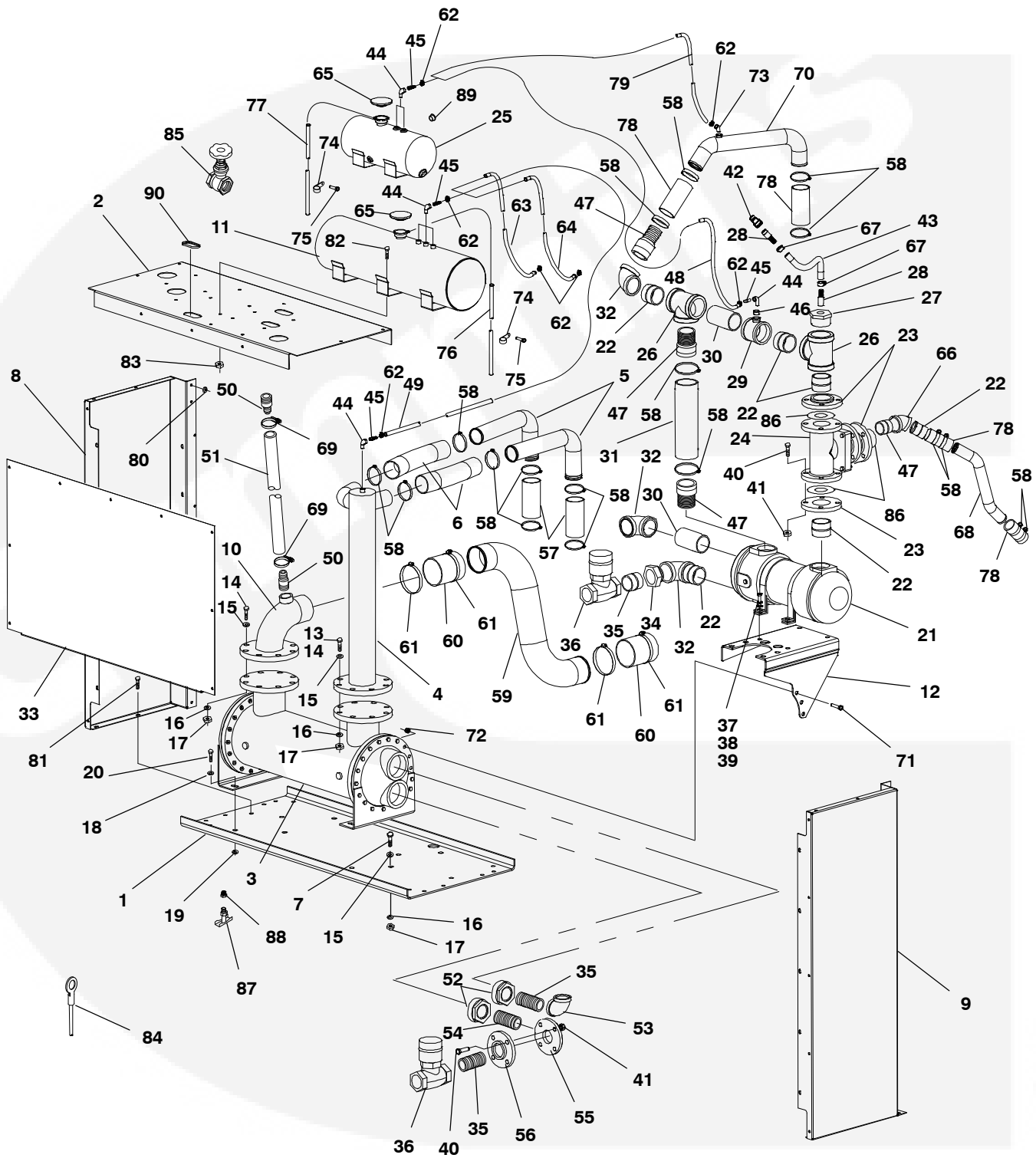


Heat Exchanger DFHA, DFHB, DFHC

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				



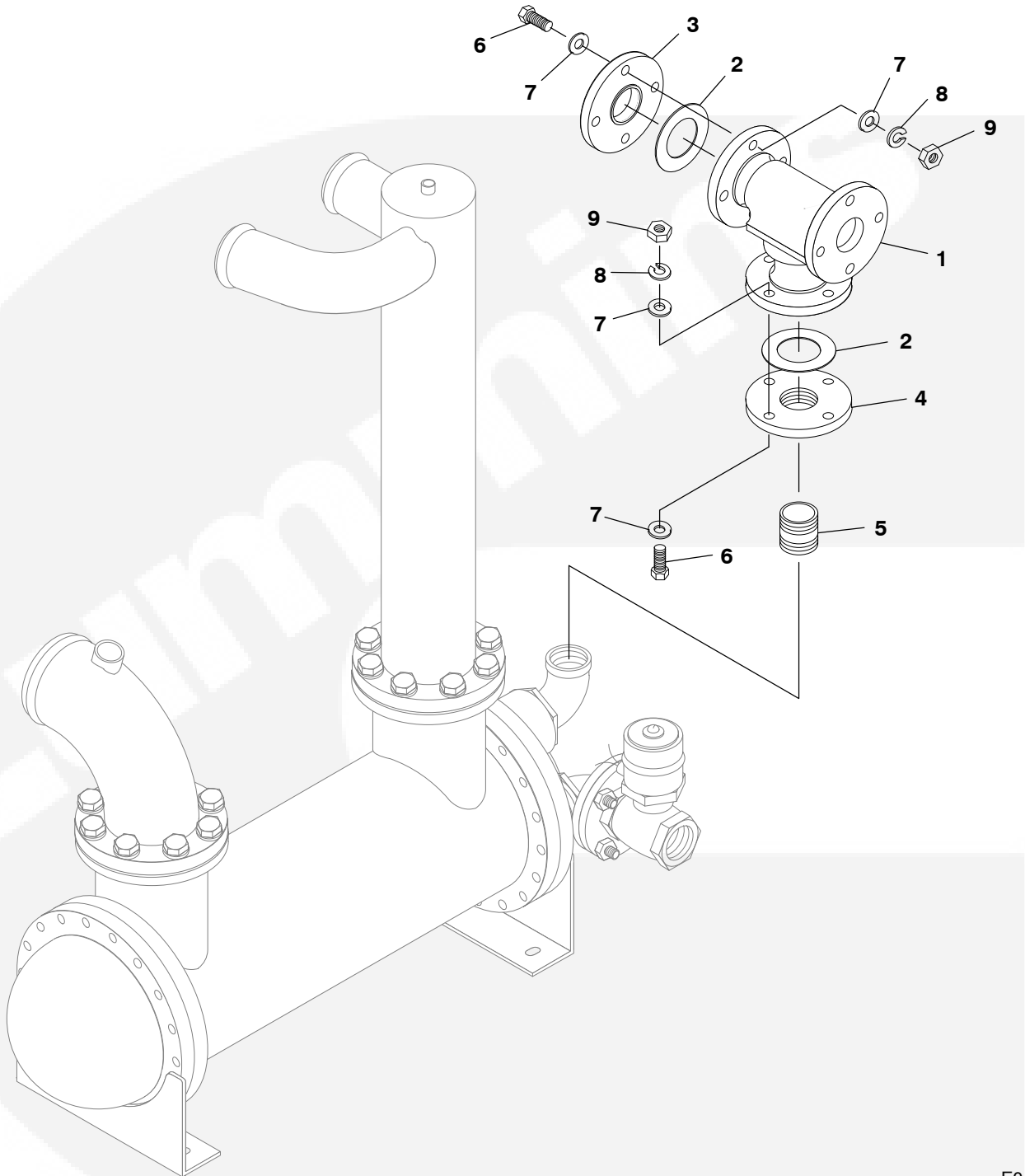
Heat Exchanger DFHD



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	45	502-1162	7	Fitting, Barbed Hose
2	130-3769	1	Panel, Heat Exchanger - Top	46	505-0020	1	Bushing, Reducer (3/4 x 1/4)
3	130-3772	1	Exchanger, Heat	47	505-1549	4	Adapter, Pipe (Male)
4	130-3774	1	Manifold, Heat Exchanger	48	503-2112	1	Hose, Heat Exchanger
5	130-4570	2	Tube, Heat Exchanger	49	503-2113	1	Hose, Heat Exchanger
6	503-2268	2	Hose, Coolant (3.0" x 13.0" Lg.)	50	505-1429	2	Nipple, Combination
7	800-0158	6	Screw, Cap - Hex Head (3/4-10 x 2.75)	51	503-1729	1	Hose, Radiator
8	130-3592-01	1	Guard, Radiator	52	505-1441	2	Bushing, Reducer (4 x 2-1/2)
9	130-3592-02	1	Guard, Radiator	53	505-0044	1	Elbow, Pipe
10	130-3773	1	Elbow, Heat Exchanger	54	505-0114	1	Nipple, Pipe (2-1/2 x 3.00)
11	130-3766	1	Tank, Expansion	55	505-1442	1	Elbow - 90° - Flange
12	130-5011-02	1	Bracket, Flange Mounting	56	155-0899	1	Flange, Companion (2-1/2)
13	800-0310-97	4	Screw, Cap - Hex Head (Grade 5) (.750-10 x 3.50)	57	503-1762	2	Hose, Coolant (3 x 8.5)
14	800-0160	12	Screw, Cap - Hex Head (.750-10 x 3.25)	58	503-1872-05	16	Clamp, Hose
15	526-0027	22	Washer, Flat (3/4)	59	130-4571	1	Tube, Heat Exchanger
16	850-0079	22	Washer, Lock (3/4)	60	503-1726	2	Hose, Radiator (5 x 6)
17	862-0008	22	Nut, Hex (.75-10)	61	503-1872-09	4	Clamp, Hose
18	526-0399-28	4	Washer, Flat (Hardened) (5/8)	62	503-0685	10	Clamp, Hose
19	850-0114-10	4	Washer, Lock - Split (5/8)	63	503-2115	1	Hose, Heat Exchanger (3/8 ID)
20	800-0310-79	4	Screw, Cap - Hex Head (Grade 5) (.625-11 x 1.75)	64	503-2116	1	Hose, Heat Exchanger (3/8 ID)
21	130-4982	1	Exchanger, Heat	65	130-0449	2	Cap, Radiator
22	505-0382	6	Nipple, Pipe (3 x 2.63)	66	505-0605	1	Elbow, Pipe - 45° (3")
23	505-0601	3	Flange, Pipe (3")	67	503-1872-01	2	Clamp, Hose
24	309-0665	1	Valve, Thermostatic	68	130-5020-02	1	Tube, Water
25	130-3969	1	Tank, Expansion	69	503-1872-02	2	Clamp, Hose
26	505-1547	2	Tee, Pipe	70	130-5039-02	1	Tube, Water
27	505-0812	1	Bushing, Reducer (3 x 3/4)	71	800-0310-69	3	Screw, Cap - Hex Head (Grade 5) (.50 x 2.25)
28	505-0758	1	Adapter, Pipe (3/4 x 3/4)	72	862-0016	3	Nut, Hex (.50-13)
29	505-1553	1	Elbow, Pipe	73	502-1146	1	Elbow - 45°
30	505-0667	2	Nipple, Pipe (3 x 6.50)	74	518-0548-08	8	Clamp, Hose
31	503-2267	1	Hose, Radiator (3.0" x 10.5" Lg.)	75	821-5003-03	20	Screw, Hex Head (5/16-18 x .75)
32	505-0453-01	3	Elbow, Pipe	76	503-2123	1	Hose, Heat Exchanger
33	130-3767	1	Panel, Heat Exchanger - Front	77	503-2124	1	Hose, Heat Exchanger
34	505-0607	1	Bushing, Reducer (3 x 2-1/2)	78	503-1728	4	Hose, Heat Exchanger
35	505-0103	3	Nipple, Pipe (2-1/2 x 2-1/2)	79	503-2118	1	Hose, Heat Exchanger
36	307-2711	2	Valve, Solenoid (24V)	80	870-0550-07	2	Nut, Flange Head (5/6")
37	526-0219	4	Washer, Flat (1/2)	81	821-0033	6	Screw, Self-Locking - Hex Head (7/16-14 x .75)
38	850-0060	4	Washer, Lock - Split (1/2)	82	821-5004-02	10	Screw, Hex Head (3/8-16 x .75)
39	800-0310-68	4	Screw, Cap - Hex Head (Grade 5) (.50-13 x 2.00)	83	870-0550-09	10	Nut, Hex Flange Head
40	800-0310-81	16	Screw, Cap - Hex Head (Grade 5) (.625-11 x 2.25)	84	226-4115	2	Lead
41	862-0007	16	Nut, Hex (.63-11)	85	504-0175	2	Valve, Gate (2-1/2)
42	505-0287	1	Elbow, Street - 45° (3/4)	86	155-2514-02	3	Gasket, Flange
43	503-2114	1	Hose, Radiator	87	504-0028	1	Cock, Drain (3/8)
44	505-0011	7	Elbow, Street - 90° (1/4)	88	505-0019	1	Bushing, Reducer (1/2 x 3/8)
				89	505-0180	1	Plug, Flush Type
				90	505-1090	2	Grommet

Thermostatic Valve DFHA, DFHB, DFHC



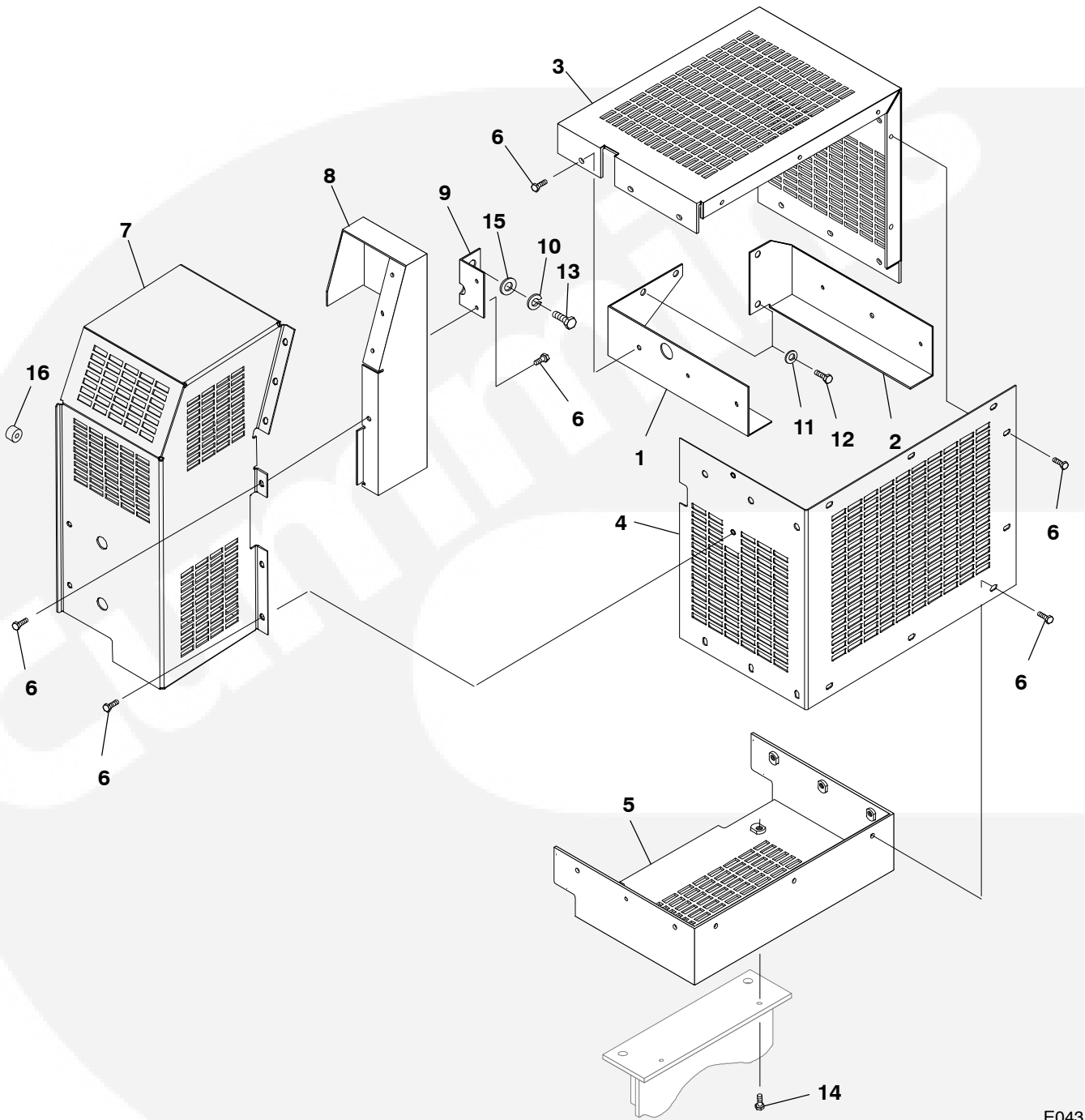
E045

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")				

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Remote Radiator



E043

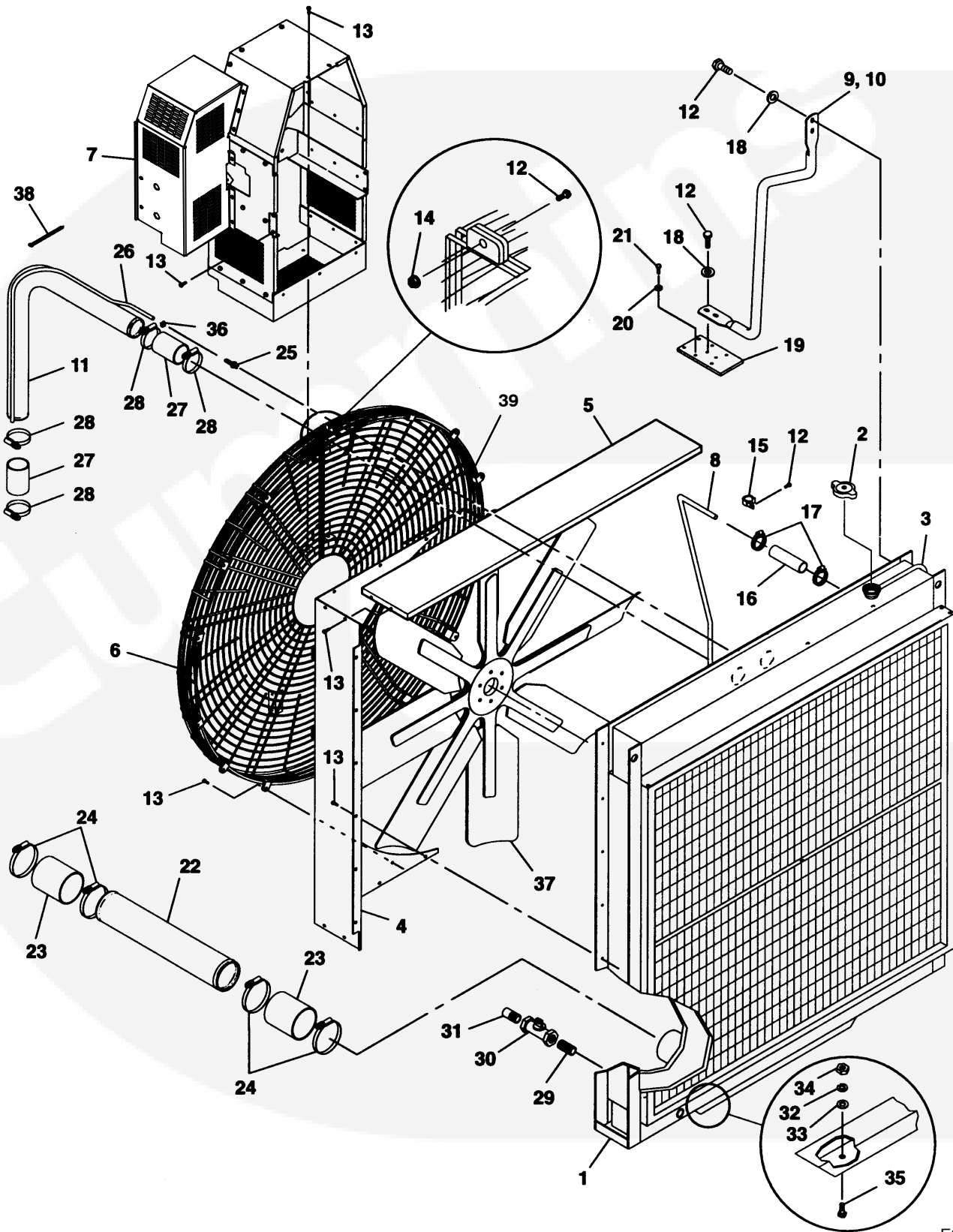


Remote Radiator

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



Radiator
 40°C Ambient
 DFHA, DFHB, DFHC

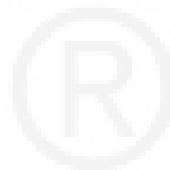


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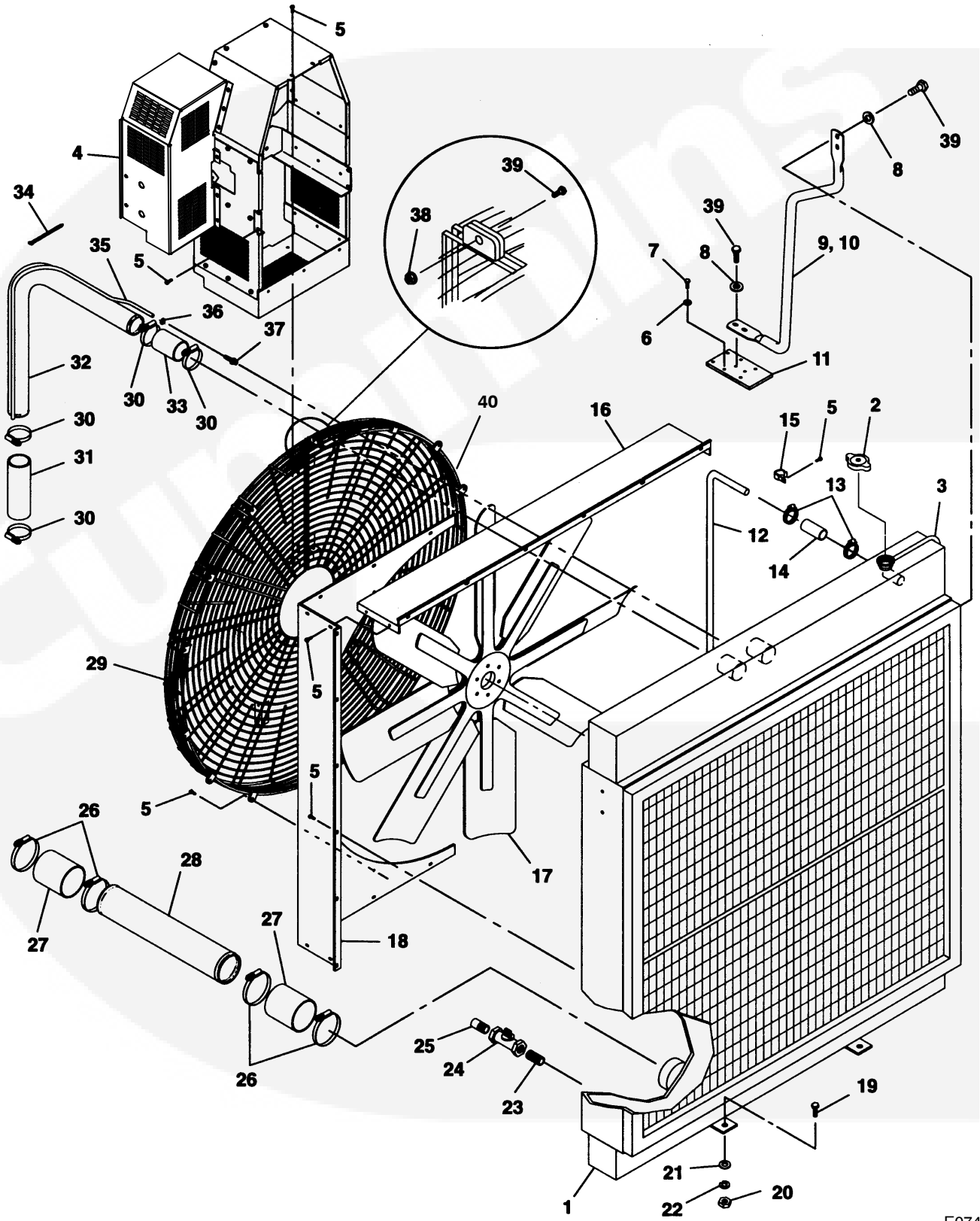
Radiator
40°C Ambient
DFHA, DFHB, DFHC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4436	1	Radiator (Includes Radiator	18	526-0240	8	Washer, Flat (3/8")
			Grille, Radiator Duct Adapter,	19	130-4503	2	Plate, Radiator Support
			Three Radiator Overflow	20	526-0399-62	8	Washer, Flat (M10)
			Hose Clamps, and Parts	21	800-2087	10	Screw, Cap - Hex Head (M10 x
			Marked *)				30mm)
	130-4362	1	* Kit, Repair - Radiator	22	130-4457	1	Tube, Radiator Outlet
			Sight Gauge (Not	23	503-1726	2	Hose, Radiator (5" ID x 6")
			Illustrated)	24	503-1872-09	4	Clamp, Hose
2	130-3588	1	* Cap, Radiator - 7 PSI	25	502-1162	2	Fitting, Barbed Hose
3	503-1418	-	* Hose, Radiator Overflow - Bulk	26	503-1620	-	Hose, Bypass - Bulk
			(1/4" ID) (Order by the Foot -				(3/8" ID) (Order by the
			7 Feet Required)				Foot - 11 Feet Required)
4	130-4474	2	Wrapper, Fan Shroud	27	503-1728	4	Hose, Radiator (3" ID x 5-1/2")
5	130-4473	2	Shroud, Fan	28	503-1872-05	8	Clamp, Hose
6	130-4439-01	1	Guard, Fan - Left Side	29	505-0102	1	Nipple, Pipe
7	—	1	Guard Assembly, Belt (See	30	504-0171	1	Valve, Shutoff (3/4")
			Page 46 for Components)	31	505-0324	1	Nipple, Half (3/4-14)
8	130-4458	1	Tube, Radiator Fill	32	850-0079	2	Washer, Spring - Lock (3/4")
9	130-4493	1	Support, Radiator - Right Side	33	526-0027	2	Washer, Flat (3/4")
			(Illustrated)	34	862-0008	2	Nut, Hex (3/4-10)
10	130-4494	1	Support, Radiator - Left Side	35	800-0156	2	Screw, Cap - Hex Head
11	130-4456	2	Tube, Radiator Inlet				(3/4-10 x 2.25)
12	821-5004-03	16	Screw, Self-Locking - Hex	36	503-0685	4	Clamp, Hose
			Washer Head (3/8-16 x 1")	37	130-5210	1	Fan, Engine
13	821-5003-03	52	Screw, Self-Locking - Hex	38	332-3008	1	Tie, Cable (Quantity Used As
			Washer Head (5/16-18 x				Required)
			3/4")	39	130-4439-02	1	Guard, Fan - Right Side
14	870-0550-09	6	Nut, Hex Flange (3/8-16)				
15	518-0548-20	2	Clip, J				
16	503-1634	2	Hose, Rubber (1" ID x 4")				
17	503-1872-01	4	Clamp, Hose				

* Parts Included in 130-4436 Radiator



Radiator 50°C Ambient

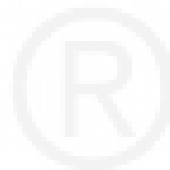


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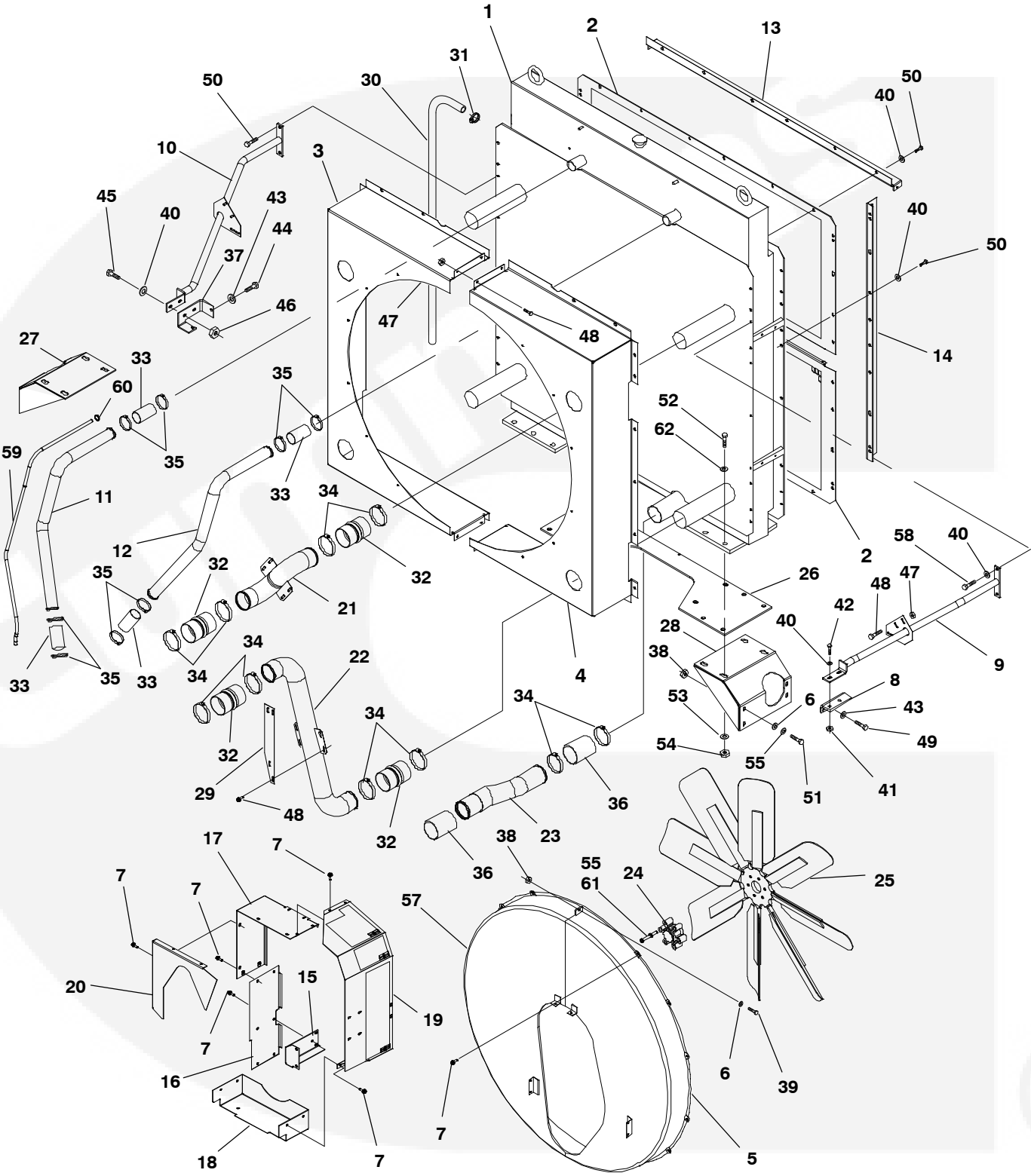
Radiator 50°C Ambient

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	800-0157	4	Screw, Cap – Hex Head (3/4-10 x 2.50)
	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 46 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



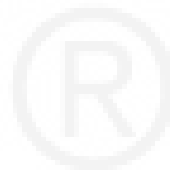
Radiator DFHD Spec A



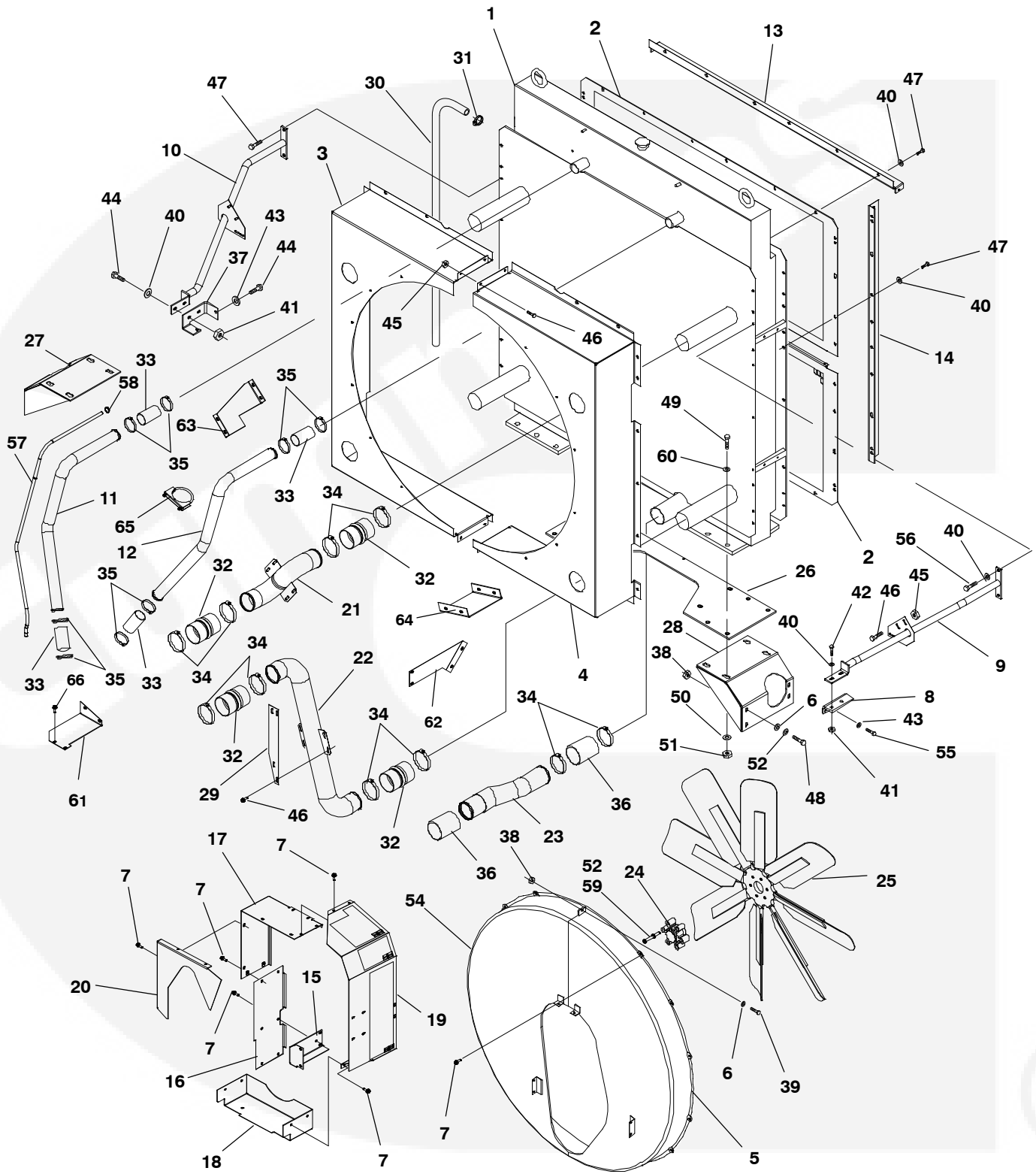
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Radiator DFHD Spec A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4894	1	Radiator	37	123-2142-02	1	Bracket, Mounting
2	130-4927-02	2	Guard, Radiator	38	862-0016	16	Nut, Hex (1/2")
3	130-4890-02	1	Shroud, Fan (Right Side)	39	800-0310-65	2	Screw, Cap - Hex Head (.50-13 x 1.25) (Grade 5)
4	130-4889-02	1	Shroud, Fan (Left Side)				
5	130-4893-03	1	Guard, Fan (Left Side)	40	526-2140	52	Washer, Flat (M10)
6	526-0219	42	Washer, Flat (1/2)	41	860-2010	2	Nut, Hex (M12)
7	821-5003-03	28	Screw, Hex Head (5/16-18 x .75)	42	800-2113	2	Screw, Cap - Hex Head (M12 x 1.75 x 35)
8	130-4992-02	1	Bracket, Radiator Support	43	526-2120	8	Washer, Flat (M10)
9	130-4991-02	1	Support, Radiator (Left Side)	44	800-2086	4	Screw, Cap - Hex Head (M10 x 1.5 x 25)
10	130-4990-02	1	Support, Radiator (Right Side)				
11	130-4941-02	1	Tube, Radiator Inlet (Right Side)	45	800-2087	2	Screw, Cap - Hex Head (M10 x 1.5 x 30)
12	130-4942-02	1	Tube, Radiator Inlet (Left Side)	46	860-2059	2	Nut, Hex (M10)
13	130-4988-02	2	Adapter, Duct (Top and Bottom)	47	870-2055	18	Nut, Hex (M8)
14	130-4989-02	2	Adapter, Duct (Sides)	48	821-6003-02	24	Screw, Hex Head (M8 x 1.25 x 20)
15	130-4926-02	1	Bracket, Guard				
16	130-4925-02	1	Guard, Belt	49	800-2095	2	Screw, Cap - Hex Head (M10 x 1.5 x 70)
17	130-4923-02	1	Guard, Belt				
18	130-4924-02	1	Guard, Belt (Bottom)	50	800-2112	44	Screw, Hex Head (M12 x 1.75 x 30)
19	232-4019-02	1	Guard, Alternator				
20	130-5086-02	1	Guard, Belt (Cover)	51	800-0092	8	Screw, Hex Head (1/2-13 x 2.00)
21	130-4948-02	2	Tube, Radiator Air Inlet				
22	130-4949-02	2	Tube, Radiator Air Outlet	52	800-0159	16	Screw, Hex Head (3/4-10 x 3.00)
23	130-4943-02	1	Tube, Radiator Outlet				
24	130-4944	1	Spacer, Fan	53	850-0079	16	Washer, Lock - Split (3/4)
25	130-5210	1	Fan, Engine	54	862-0008	12	Nut, Hex (.75)
26	130-5286-02	2	Bracket, Radiator	55	850-0060	18	Washer, Lock - Split (1/2)
27	130-5016-02	1	Bracket, Radiator Support (Right Side)	56	800-0158	4	Screw, Cap - Hex Head (1/2-13 x 2.75)
28	130-5010-02	1	Bracket, Radiator Support (Left Side)	57	130-4893-04	1	Guard, Fan (Right Side)
				58	800-3017-56	4	Screw, Cap - Hex Head (M12 x 1.75 x 40)
29	130-5044-02	2	Brace, Air Tubes				
30	503-2131	1	Hose, Radiator Fill	59	503-1620	-	Hose, Fuel - Bulk (Order By the Foot - 12 Feet Required)
31	503-1872-01	2	Clamp, Hose				
32	503-2130	8	Hose, Hump	60	503-0685	4	Clamp, Hose
33	503-2132	4	Hose, Radiator (2.75 x 5.00)	61	800-0103	6	Screw, Cap - Hex Head (1/2-13 x 4.25)
34	503-1872-07	18	Clamp, Hose				
35	503-1872-04	8	Clamp, Hose	62	526-0027	20	Washer, Flat (3/4)
36	503-2135	2	Hose, Radiator				



Radiator DFHD Begin Spec B



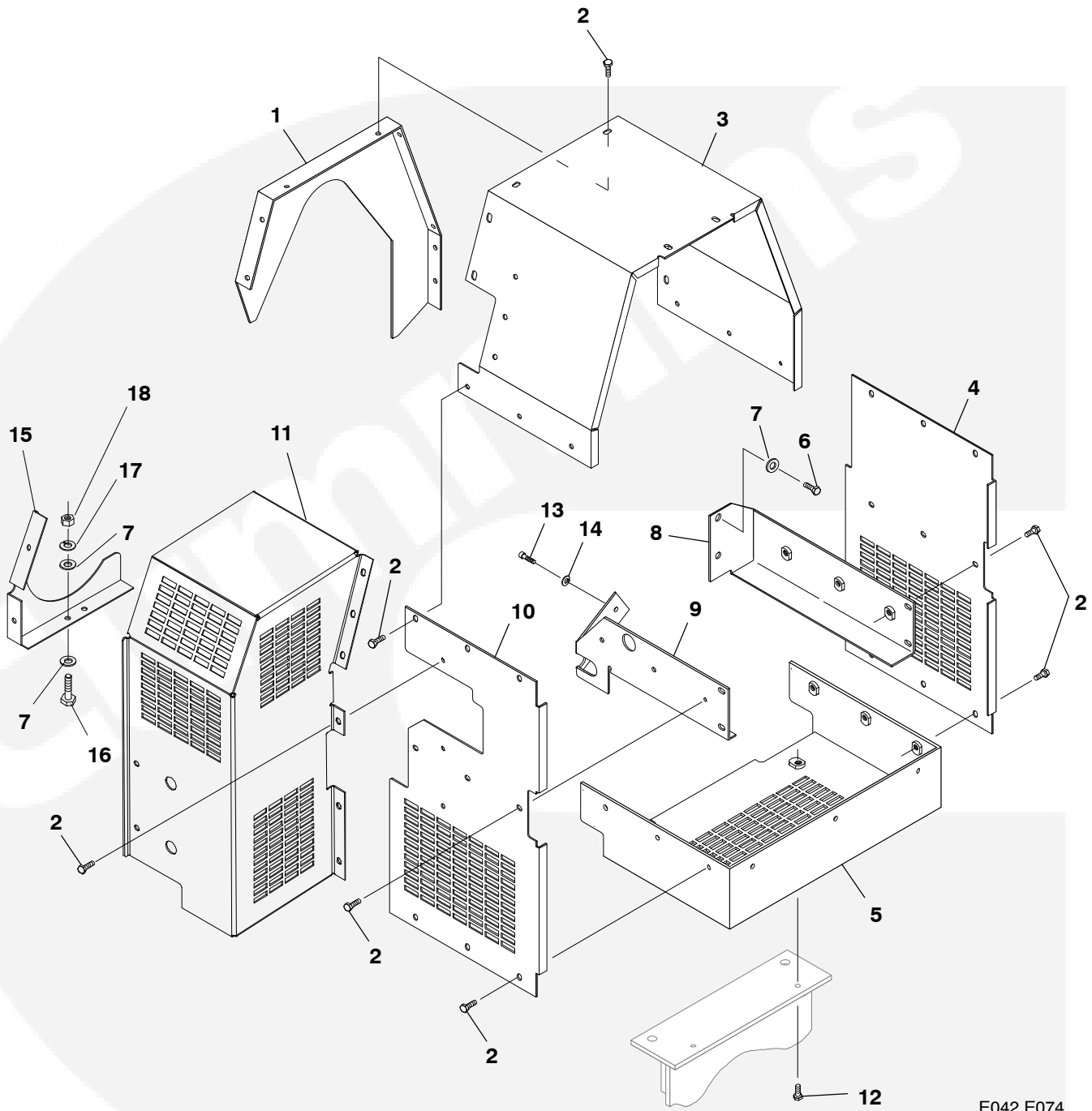
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**Radiator
DFHD
Begin Spec B**

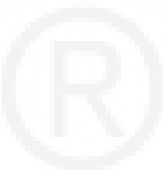
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4894	1	Radiator	39	800-0310-65	2	Screw, Cap – Hex Head (.50-13 x 1.25) (Grade 5)
2	130-4927-02	2	Guard, Radiator				Washer, Flat (M12)
3	130-5521-02	1	Shroud, Fan (Right Side)	40	526-2141	52	Nut, Hex (M12)
4	130-5520-02	1	Shroud, Fan (Left Side)	41	860-2010	2	Screw, Cap – Hex Head (M12 x 1.75 x 35)
5	130-4893-03	1	Guard, Fan (Left Side)	42	800-2113	2	Washer, Flat (M10)
6	526-0219	42	Washer, Flat (1/2)	43	526-2120	8	Screw, Cap – Hex Head (M10 x 1.5 x 30)
7	821-5003-03	28	Screw, Hex Head (5/16-18 x .75)	44	800-2087	2	Nut, Hex (M8 x 1.25)
8	130-4992-02	1	Bracket, Radiator Support	45	870-2055	22	Screw, Hex Head (M8 x 1.25 x 20)
9	130-4991-02	1	Support, Radiator (Left Side)	46	821-6003-02	36	Screw, Hex Head (M12 x 1.75 x 30)
10	130-4990-02	1	Support, Radiator (Right Side)	47	800-2112	44	Screw, Hex Head (1/2-13 x 2.00)
11	130-4941-02	1	Tube, Radiator Inlet (Right Side)	49	800-0159	16	Screw, Hex Head (3/4-10 x 3.00)
12	130-4942-02	1	Tube, Radiator Inlet (Left Side)	50	850-0079	16	Washer, Lock – Split (3/4)
13	130-4988-02	2	Adapter, Duct (Top and Bottom)	51	862-0008	12	Nut, Hex (.75)
14	130-4989-02	2	Adapter, Duct (Sides)	52	850-0060	18	Washer, Lock – Split (1/2)
15	130-4926-02	1	Bracket, Guard	53	800-0158	4	Screw, Hex Head (3/4-10 x 2.75)
16	130-4925-02	1	Guard, Belt	54	130-4893-04	1	Guard, Fan (Right Side)
17	130-4923-02	1	Guard, Belt	55	800-2095	2	Screw, Cap – Hex Head (M10 x 1.5 x 70)
18	130-4924-02	1	Guard, Belt (Bottom)	56	800-3017-56	4	Screw, Cap – Hex Head (M12 x 1.75 x 40)
19	232-4019-02	1	Guard, Alternator	57	503-1620	-	Hose, Fuel – Bulk (Order By the Foot – 12 Feet Required)
20	130-5086-02	1	Guard, Belt (Cover)	58	503-0685	4	Clamp, Hose
21	130-4948-02	2	Tube, Radiator Air Inlet	59	800-0103	6	Screw, Cap – Hex Head (1/2-13 x 4.25)
22	130-4949-02	2	Tube, Radiator Air Outlet	60	526-0027	20	Washer, Flat (3/4)
23	130-4943-02	1	Tube, Radiator Outlet	61	130-5497-02	1	Bracket, Tube – Air
24	130-4944	1	Spacer, Fan	62	130-5498-02	1	Bracket, Tube – Air
25	130-5210	1	Fan, Engine	63	130-5517-02	2	Bracket, Tube – Air
26	130-5286-02	1	Bracket, Radiator	64	130-5518-02	2	Bracket, Tube – Air
27	130-5016-02	1	Bracket, Radiator Support (Right Side)	65	155-2305	4	Clamp, Muffler
28	130-5010-02	1	Bracket, Radiator Support (Left Side)	66	821-6004-01	2	Screw, Hex Head (M10 x 1.5 x 20)
29	130-5044-02	2	Brace, Air Tubes				
30	503-2131	1	Hose, Radiator Fill				
31	503-1872-01	2	Clamp, Hose				
32	503-2130	8	Hose, Hump				
33	503-2132	4	Hose, Radiator (2.75 x 5.00)				
34	503-1872-07	18	Clamp, Hose				
35	503-1872-04	8	Clamp, Hose				
36	503-2135	2	Hose, Radiator				
37	123-2142-02	1	Bracket, Mounting				
38	862-0016	16	Nut, Hex (.50)				



Belt Guard Assembly DFHA, DFHB, DFHC



E042,E074

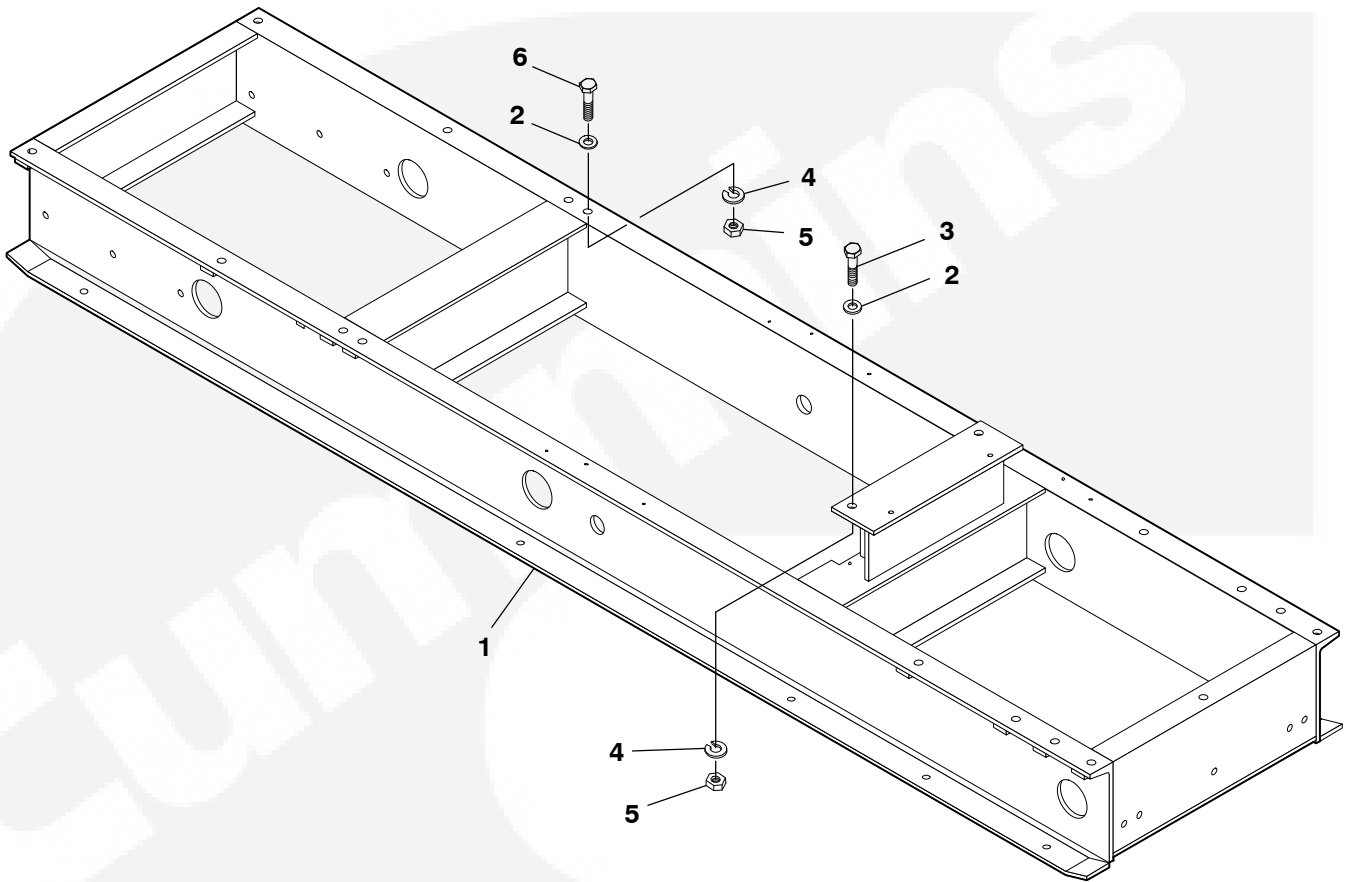


Belt Guard Assembly DFHA, DFHB, DFHC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4606	1	Guard, Belt Cover		800-3017-52	2	M12 x 1.75 x 20mm – 50° Radiator
2	821-5003-03	32	Screw, Self-Locking – Hex Washer Head (5/16–18 x 3/4")	14			Washer
3	130-4476	1	Guard, Belt – Top		850-2008	2	Lock (M8) – 40° Radiator
4	130-4478	1	Guard, Belt – Right Side		526-2140	4	Flat (M12) – 50° Radiator
5	130-4477	1	Guard, Belt – Bottom	15	130-5600-02	1	Guard, Pulley – Alternator – DFHA, DFHB Begin Spec F, DFHC Begin Spec E
6	800-3017-52	2	Screw, Cap – Hex Head (M12 x 20mm)	16	800-3017-54	2	Screw, Hex Head (M12 x 1.75 x 30) DFHA, DFHB Begin Spec F, DFHC Begin Spec E
7	526-2140	2	Washer, Flat (M12)				Washer, Lock (M12) DFHA, DFHB Begin Spec F, DFHC Begin Spec E
8	130-4481	1	Bracket, Guard – Right Side				
9	130-4482	1	Bracket, Guard – Left Side	17	850-2012	2	Washer, Lock (M12) DFHA, DFHB Begin Spec F, DFHC Begin Spec E
10	130-4479	1	Guard, Belt – Left Side				
11	232-4001	1	Guard, Alternator DFHA, DFHB Spec A-E, DFHC Spec A-D	18	860-2010	2	Nut, Hex (M12) DFHA, DFHB Begin Spec F, DFHC Begin Spec E
	130-5599-02	1	DFHA, DFHB Begin Spec F, DFHC Begin Spec E				
12	821-5004-03	2	Screw, Self-Locking – Hex Washer Head (3/8–16 x 1")				
13	800-2057	2	Screw, Cap – Hex Head M8 x 1.25 x 20mm – 40° Radiator				



Skid



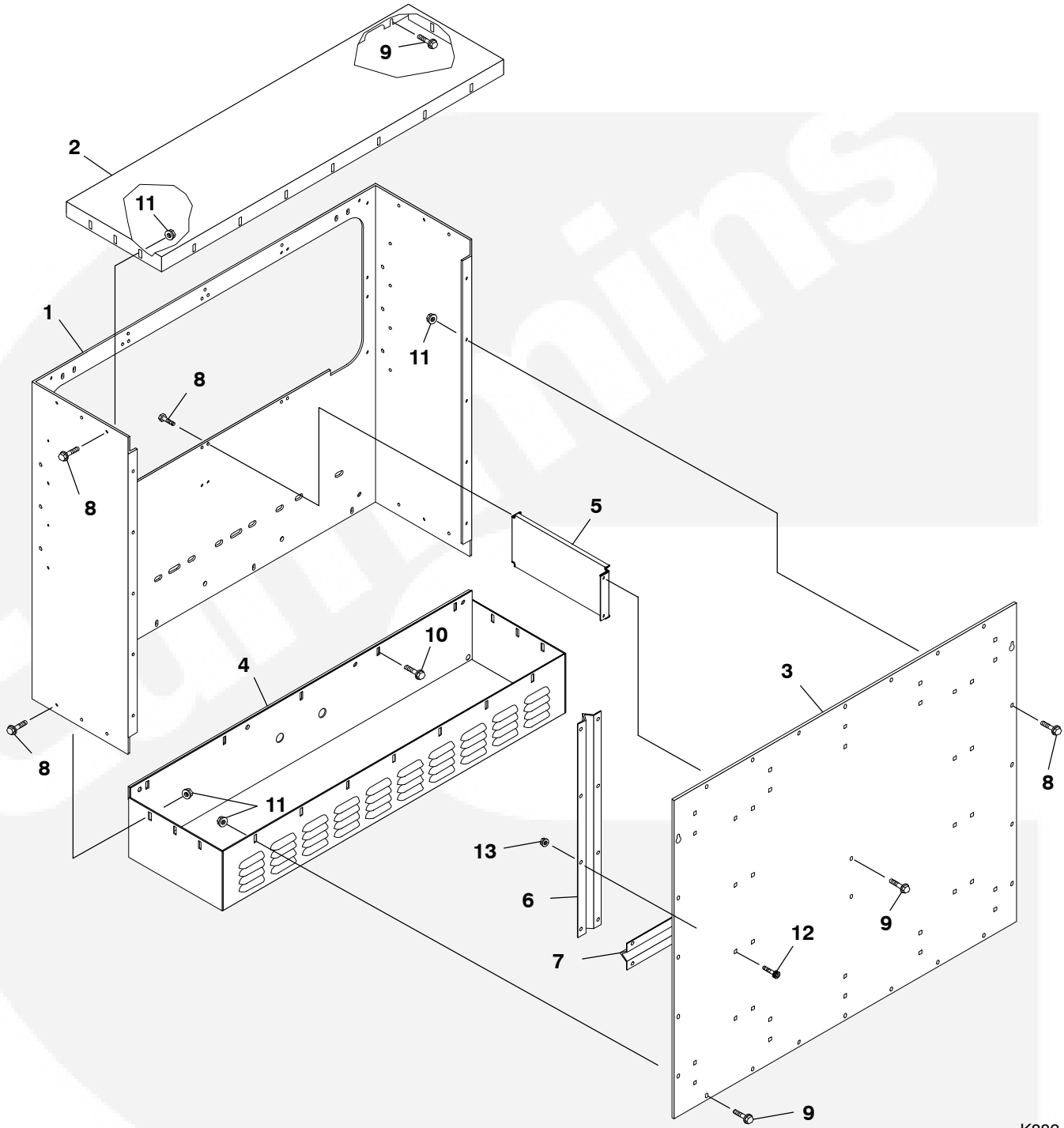
CP01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Skid	3	800-0161	2	Screw, Cap - Hex Head (3/4-10 x 3-1/2")
	403-3846	1	Model HC6 Generator	4	850-0079	6	Washer, Lock - Spring (3/4")
	403-4211	1	Model HC7 Generator - DFHC Begin Spec C, DFHD	5	862-0008	6	Nut, Hex (3/4-10)
2	526-0027	12	Washer, Flat (3/4")	6	800-0159	4	Screw, Cap - Hex Head (3/4-10 x 3")

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Entrance Box DFHA, DFHB, DFHC Spec A

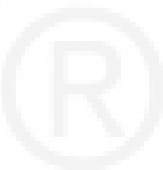


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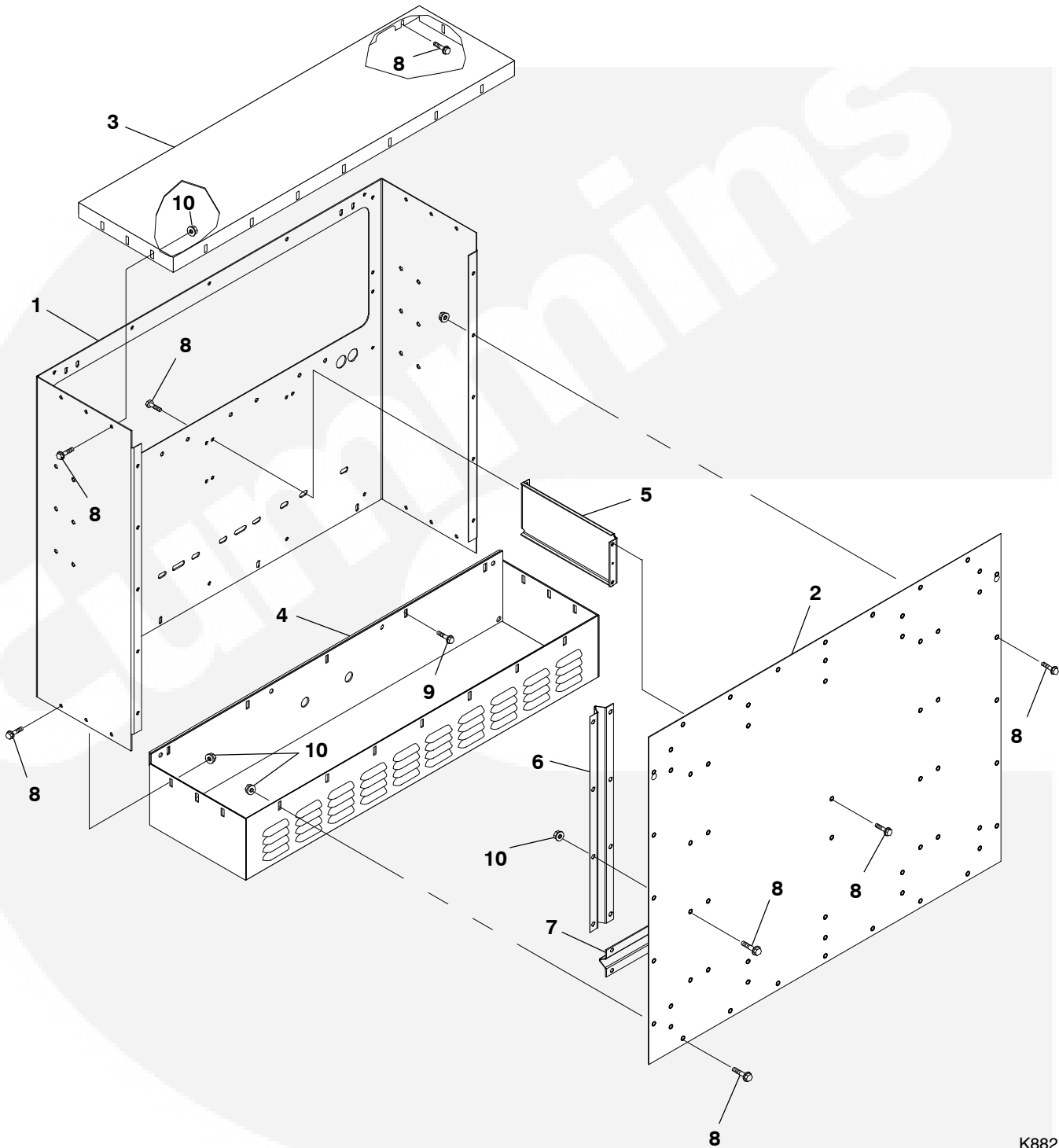


**Entrance Box
DFHA, DFHB, DFHC Spec A**

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)				
7	319-2399	2	Brace, Cover (Horizontal)	11	870-0494	26	Nut, Self-Retaining (1/4-20)
8	821-0010	24	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	12	816-0098	36	Bolt, Carriage (5/16-18 x 5/8")
				13	870-0257	36	Nut, Locking (5/16-18)



Entrance Box
DFHA, DFHB Spec B-F, DFHC Spec B-E, DFHD Spec A-C



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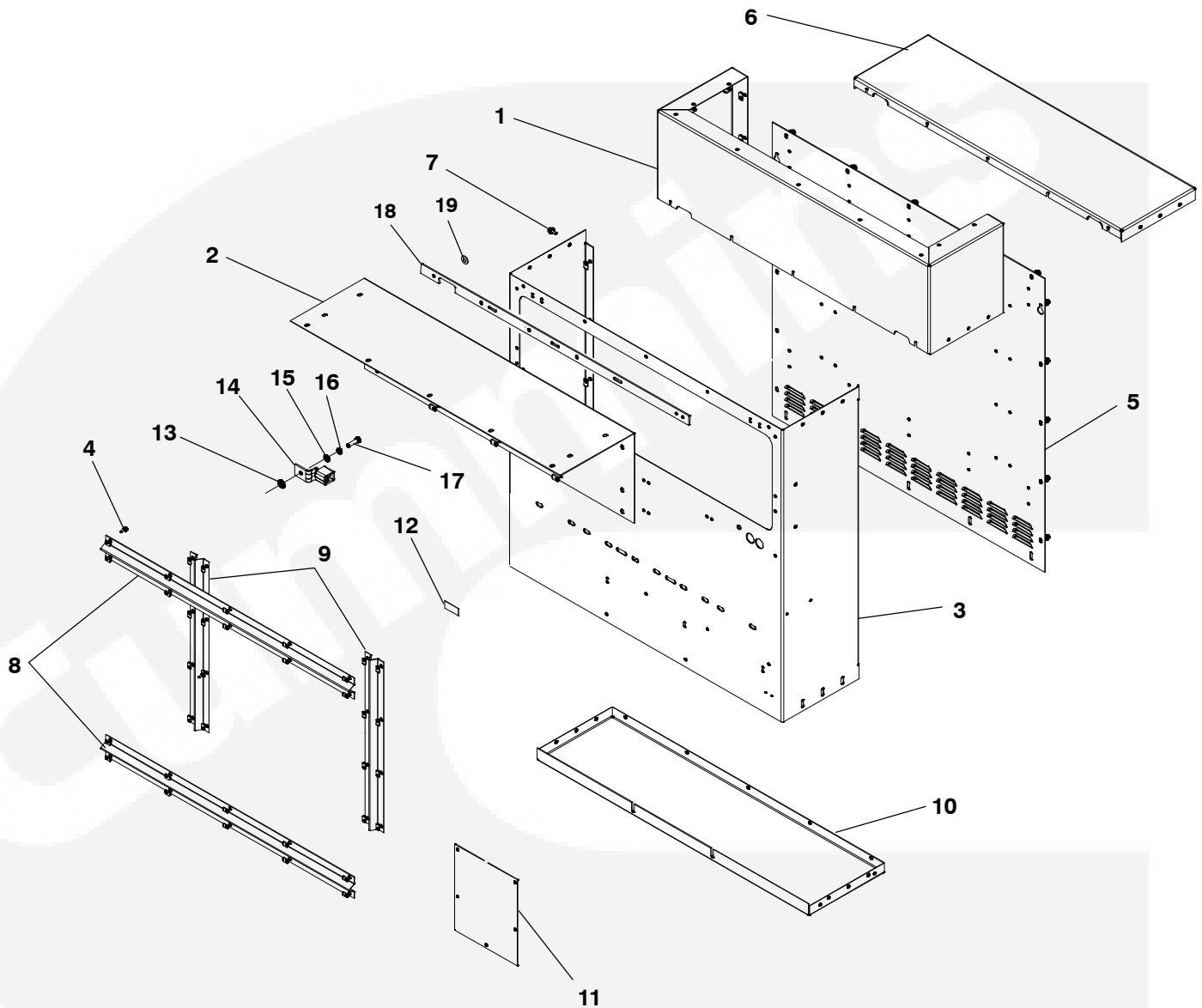
Entrance Box
DFHA, DFHB Spec B-F, DFHC Spec B-E, DFHD Spec A-C

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 - Hex Washer Head (M6 x 25mm)
4	319-1925	1	Cover, Entrance Box - Bottom				
5	319-3264	1	Brace, Cover				
6	319-3286	2	Brace, Cover (Vertical)	10	870-0504	26	Nut, Retaining (M6)



Entrance Box

DFHA, DFHB Begin Spec G, DFHC Begin Spec F, DFHD Begin Spec D

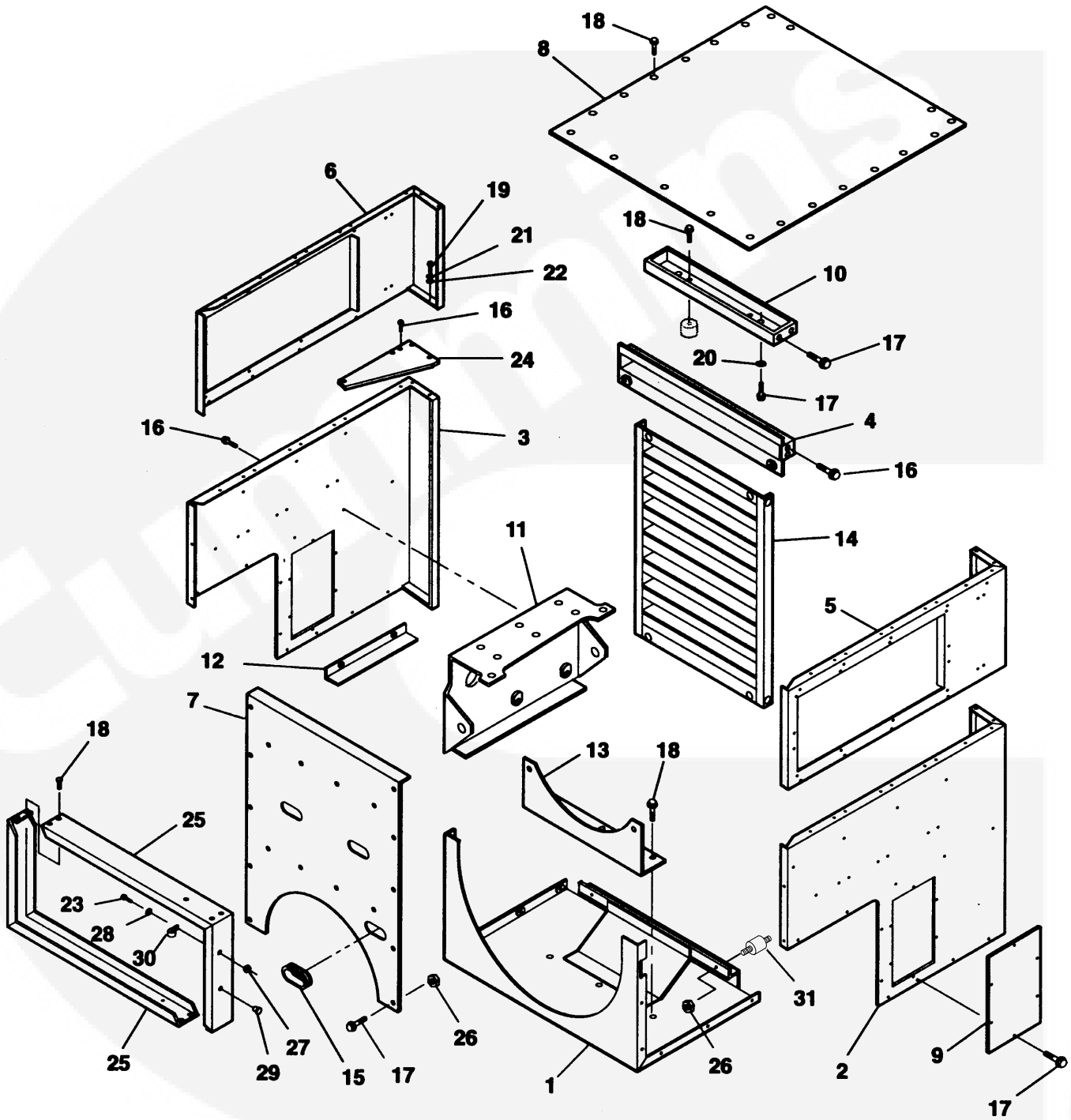


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5162-02	1	Cover, Circuit Breaker – Top (Top and Bottom Entrance)	9	319-3286	2	Brace, Access Door
2	319-5163-02	1	Cover, Circuit Breaker – Top (Top and Bottom Entrance)	10	319-5088-02	1	Cover, Circuit Breaker
3	319-5062-02	1	Box, Circuit Breaker	11	405-7709-02	1	Cover, Access
4	821-6002-03	42	Screw, Hex Head (M6 x 1 x 16) Bottom Entrance	12	098-6635	1	Label, Ground
	821-6002-03	55	Top and Bottom Entrance	13	856-0010	1	Washer, Lock – W/EIT (3/8)
5	319-5098-06	1	Cover, Circuit Breaker	14	332-2001	1	Lug, Solderless
6	319-5087-02	1	Cover, Circuit Breaker (Bottom Entrance)	15	526-2120	1	Washer, Flat (M10)
7	821-6003-01	34	Screw, Hex Head (M8 x 1.25 x 16)	16	850-2010	1	Washer, Lock – Split (M10)
8	319-3288	2	Brace, Access Door	17	800-2088	1	Screw, Cap – Hex Head (M10 x 1.5 x 35)
				18	319-5155-02	4	Spacer, Circuit Breaker Box
				19	526-0399-58	9	Washer, Flat (M6) (Used With Spacer)

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Control Housing
DFHA, DFHB, DFHC
Spec A



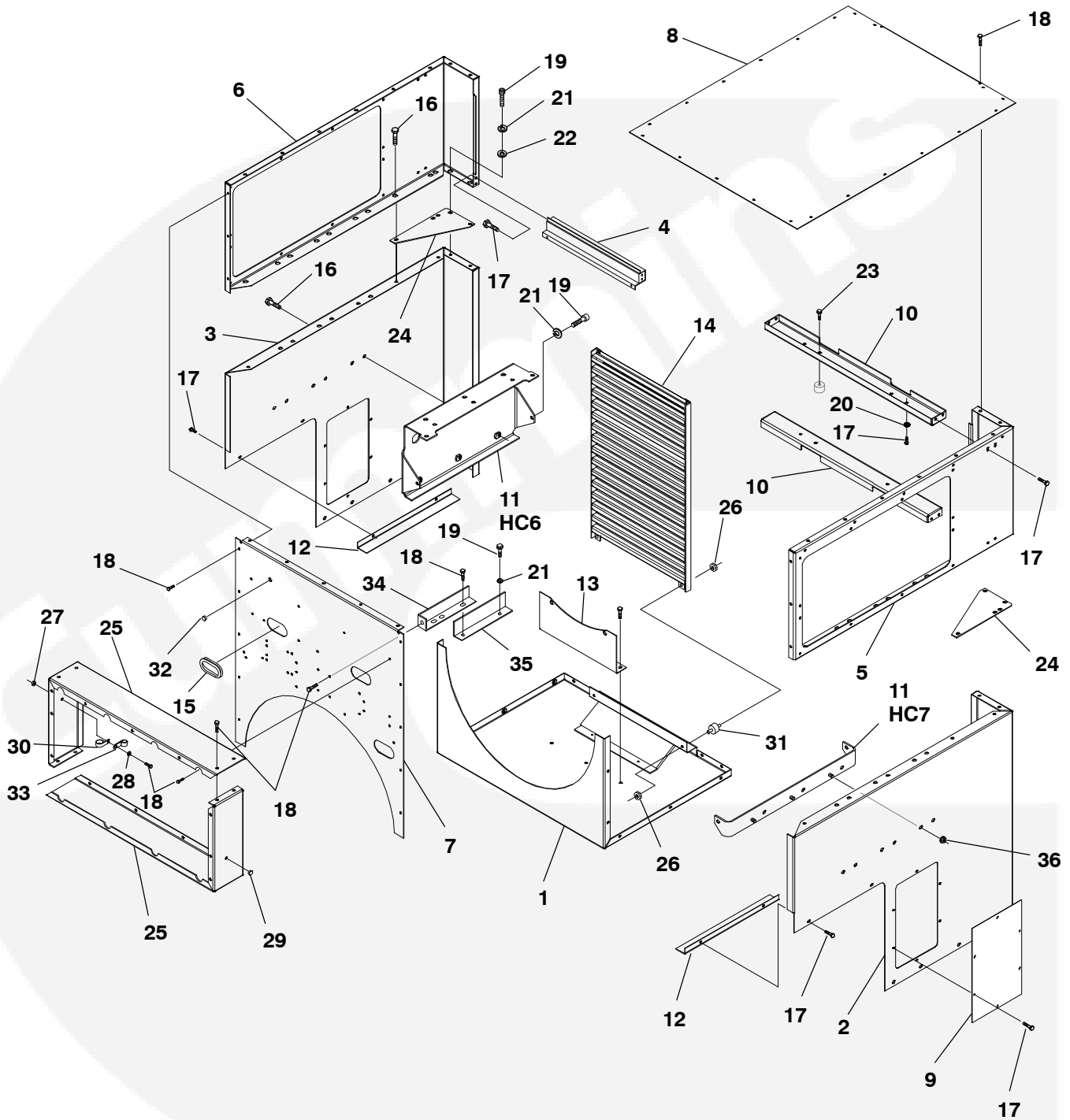
CP01

**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



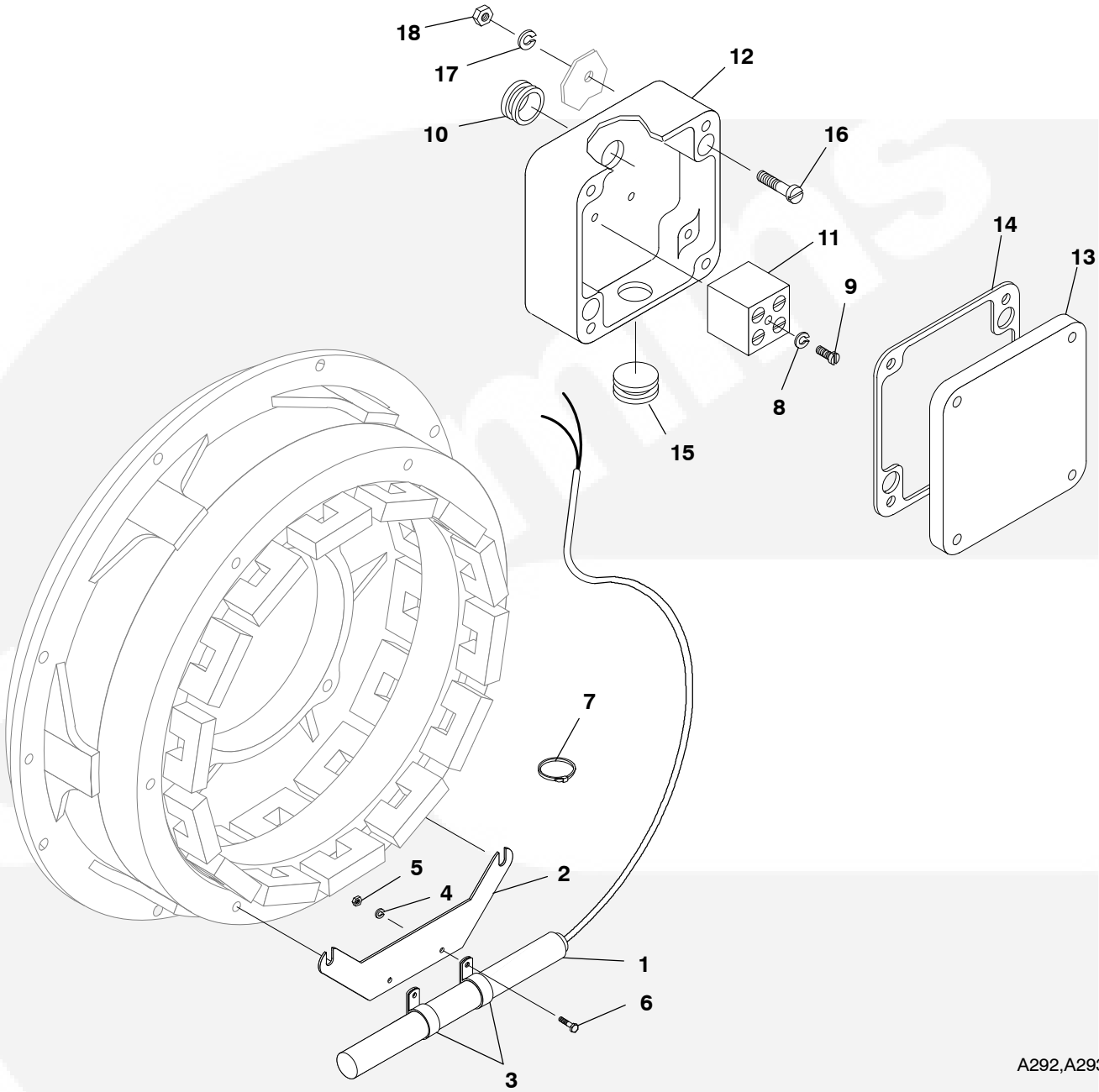
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Control Housing
DFHA, DFHB, DFHC Begin Spec B, DFHD

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				Model HC6 Generator
	319-3270-04	1	Model HC7 Generator – DFHC Begin Spec C, DFHD		821-6003-02	72	Model HC7 Generator – DFHC Begin Spec C, DFHD
					821-6003-02	74	
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
5	319-3281-01	1	Panel, Control Housing – Right Side				
6	319-3281-02	1	Panel, Control Housing – Left Side	20	856-0006	2	Washer, Lock – EIT (1/4")
				21			Washer, Lock (M10)
7			Panel, Control Housing – Rear		850-2010	14	Model HC6 Generator
	319-3276	1	Model HC6 Generator		850-2010	11	Model HC7 Generator – DFHC Begin Spec C
	319-3275	1	Model HC7 Generator – DFHC Begin Spec C, DFHD	22			DFHD
					526-0141	10	Washer, Flat (3/8")
8	319-1093	1	Cover, Control Housing – Top		526-0141	6	Model HC6 Generator
							Model HC7 Generator – DFHC Begin Spec C
9	319-0881	2	Cover, Lower Housing – Side				DFHD
10	319-3258	2	Support, Control Box	23	821-0014	4	Screw, Self-Locking – Hex Washer Head (5/16 x 1/2")
11			Bracket, Saddle	24	319-1203-01	2	Gusset, Control Housing
	319-3267	2	Model HC6 Generator – With Weldnuts for Mounting	25	319-3277	2	Wrapper, Control Box
				26	870-2054	10	Nut, Locking – Hex Flange Head (M6 x 1")
	319-3268	2	Model HC7 Generator – DFHC Begin Spec C, DFHD – With Welded Studs for Mounting	27	870-2055	2	Nut, Locking – Hex Flange Head (M8 x 1-1/4")
				28	526-1115	2	Washer, Flat (5/16")
				29	517-0131	3	Plug, Hole
12	319-3260	2	Angle, Housing – Model HC6 Generator	30	332-2634	2	Clamp, "J"
				31	402-0729	4	Isolator, Vibration
13			Bracket, Panel	32	517-0135	1	Plug, Hole
	319-1091	1	Model HC6 Generator	33	518-0548-42	2	Clamp, Hose
	319-1092	1	Model HC7 Generator – DFHC Begin Spec C, DFHD	34	319-3263	1	Support, Angle – Model HC7 Generator – DFHC Begin Spec C, DFHD
14	319-2767	1	Grille, Generator	35	319-3269	1	Support, Angle – Model HC7 Generator – DFHC Begin Spec C, DFHD
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
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				



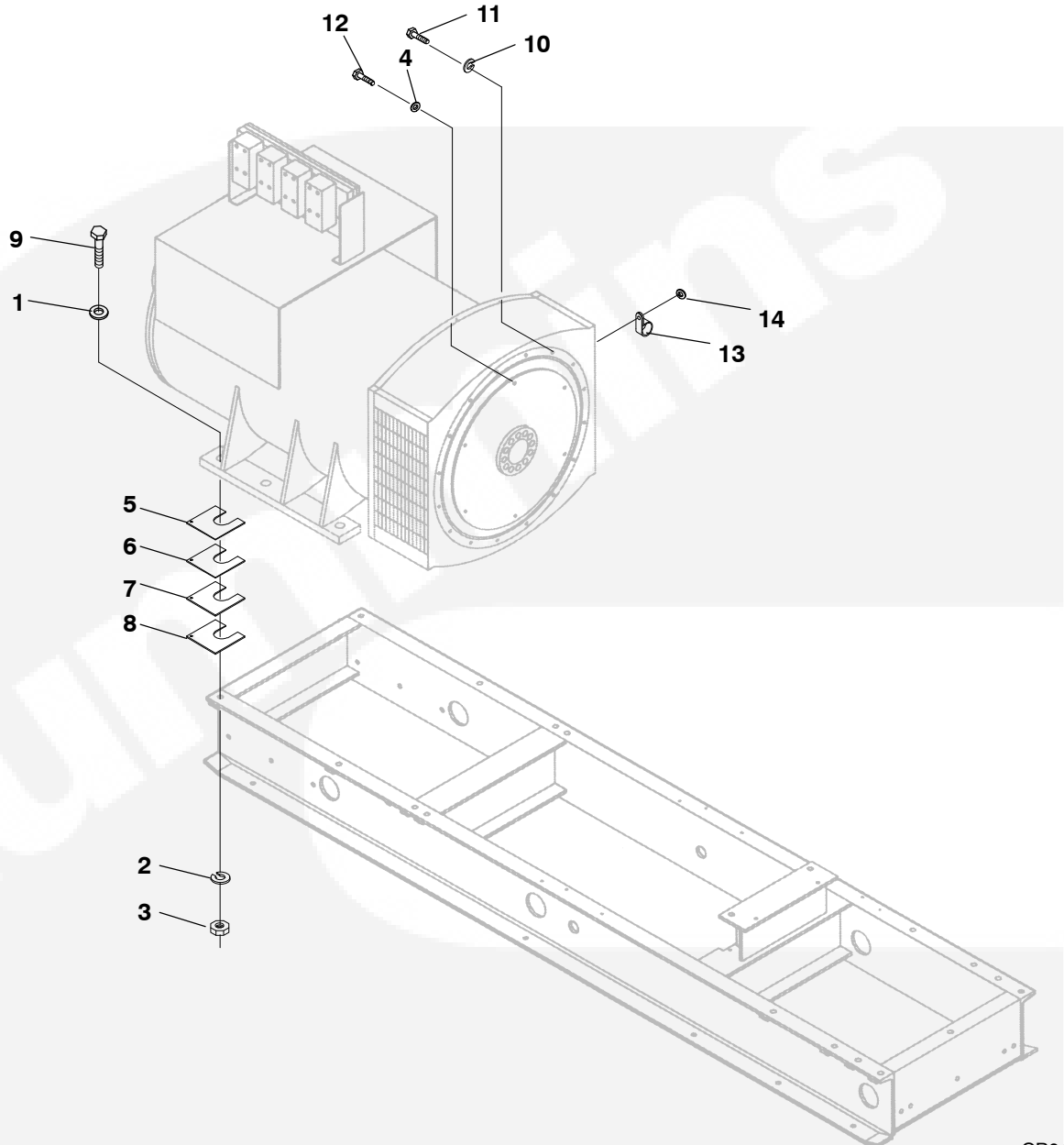
Generator Heater



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 110-125 Volts	9	822-3047	1	Screw, Pan Head (M3 x 20)
	333-0438-06	1	220-260 Volts	10	508-0228	1	Grommet
2	232-3849	1	Bracket, Heater Mounting	11	332-3023	1	Block, Terminal
3	332-3024-14	2	Clamp, Loop	12	330-0142	1	Box, Terminal - Heater (Includes Cover and Gasket)
4	850-2005	2	Washer, Lock - Spring (M5)	13	330-0141-03	1	Cover, Terminal Box
5	860-2006	2	Nut, Hex - Steel Machine (M5)	14	330-0141-04	1	Gasket, Terminal Box
6	800-2008	2	Screw, Cap - Hex Head (M5 x 16)	15	517-0021	1	Plug, Dot Button
7	332-1389	1	Tie, Cable (Quantity Used As Required)	16	822-3075	6	Screw, Pan Head (M4 x 16)
8	850-2003	1	Washer, Lock - Spring (M3)	17	850-2004	2	Washer, Lock (M4)
				18	860-2005	2	Nut, Hex - Steel Machine (M4)

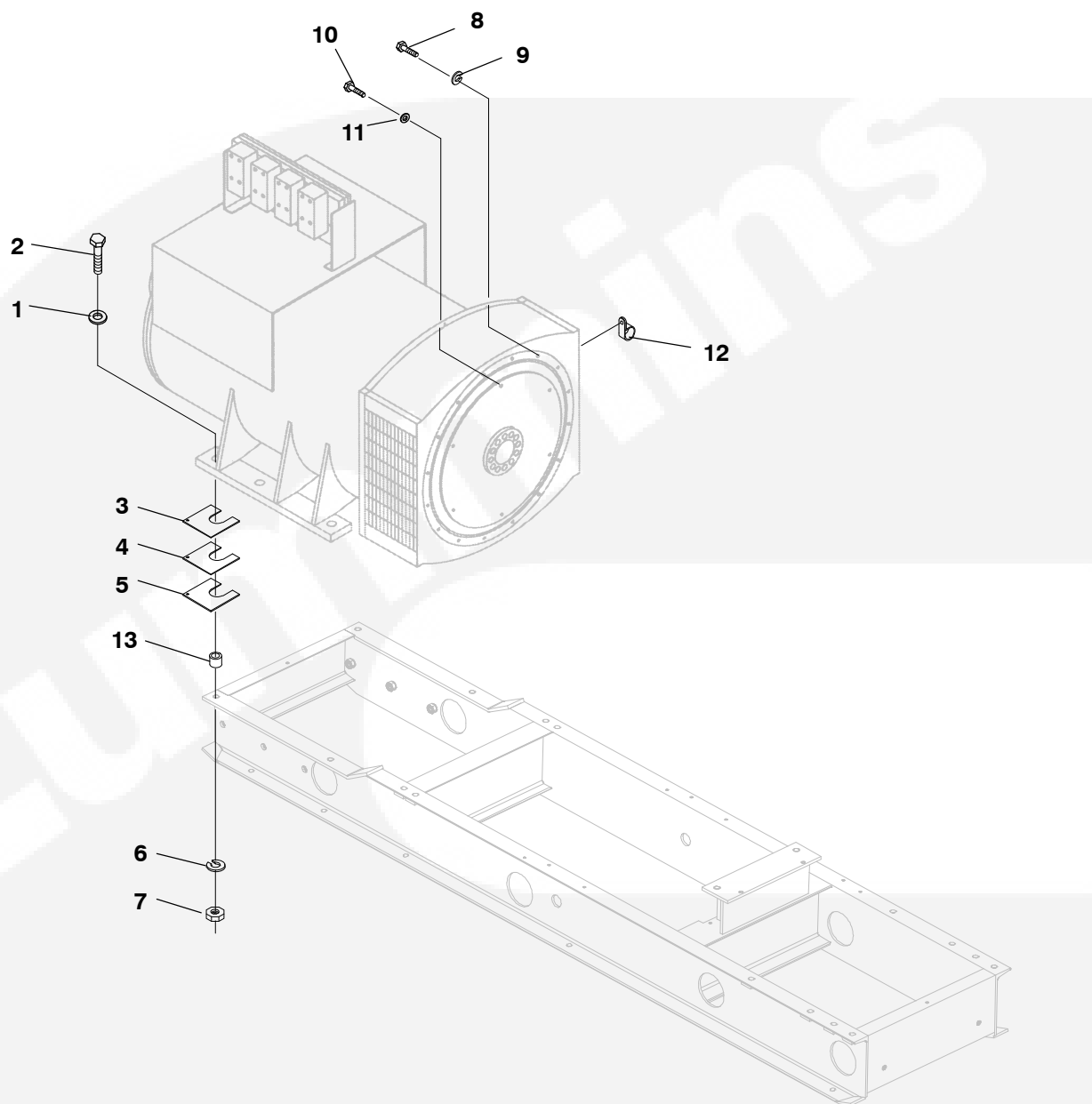
Generator Mounting Model HC6 Generator



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 Power Generation identification number.

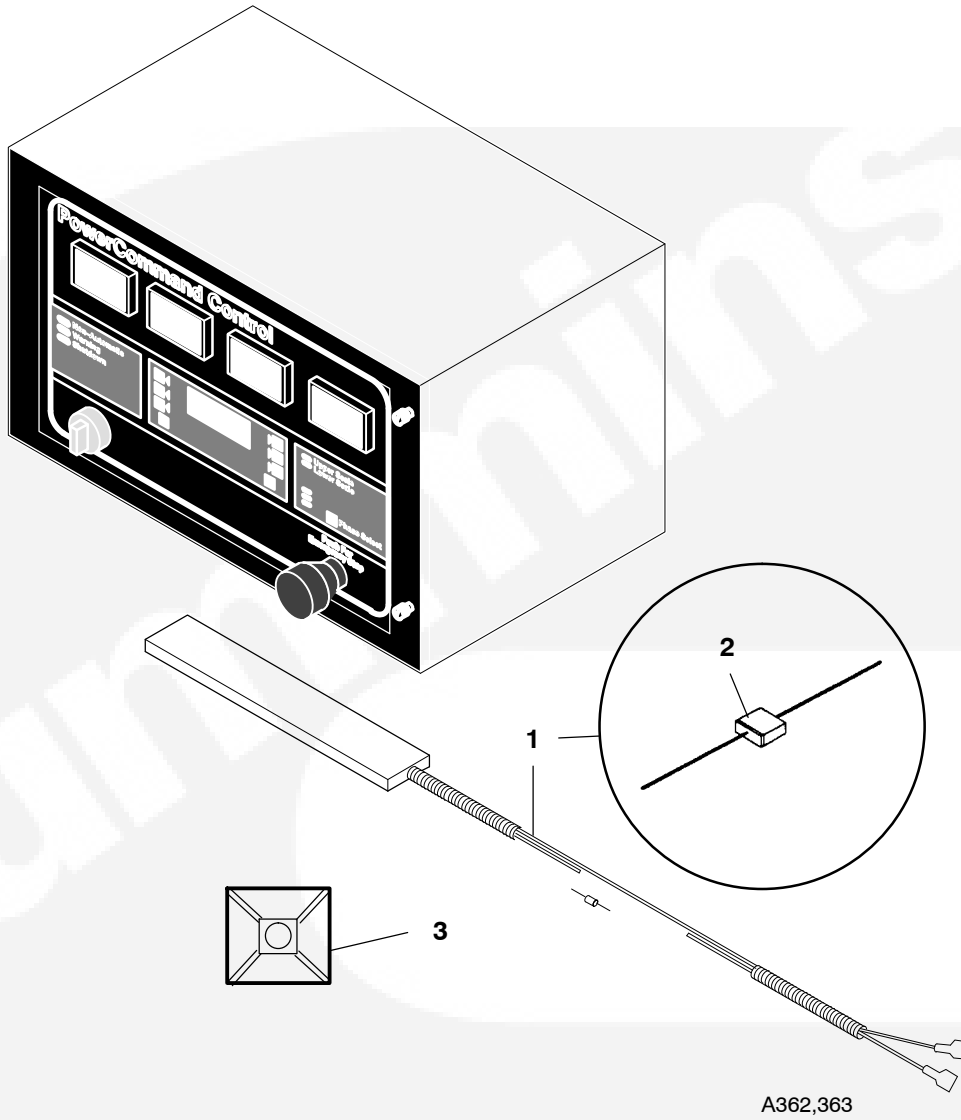
Frame 6 and Frame 7 generator component parts cannot be ordered from Cummins Power Generation. Refer to the Newage nameplate and supply all available

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
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

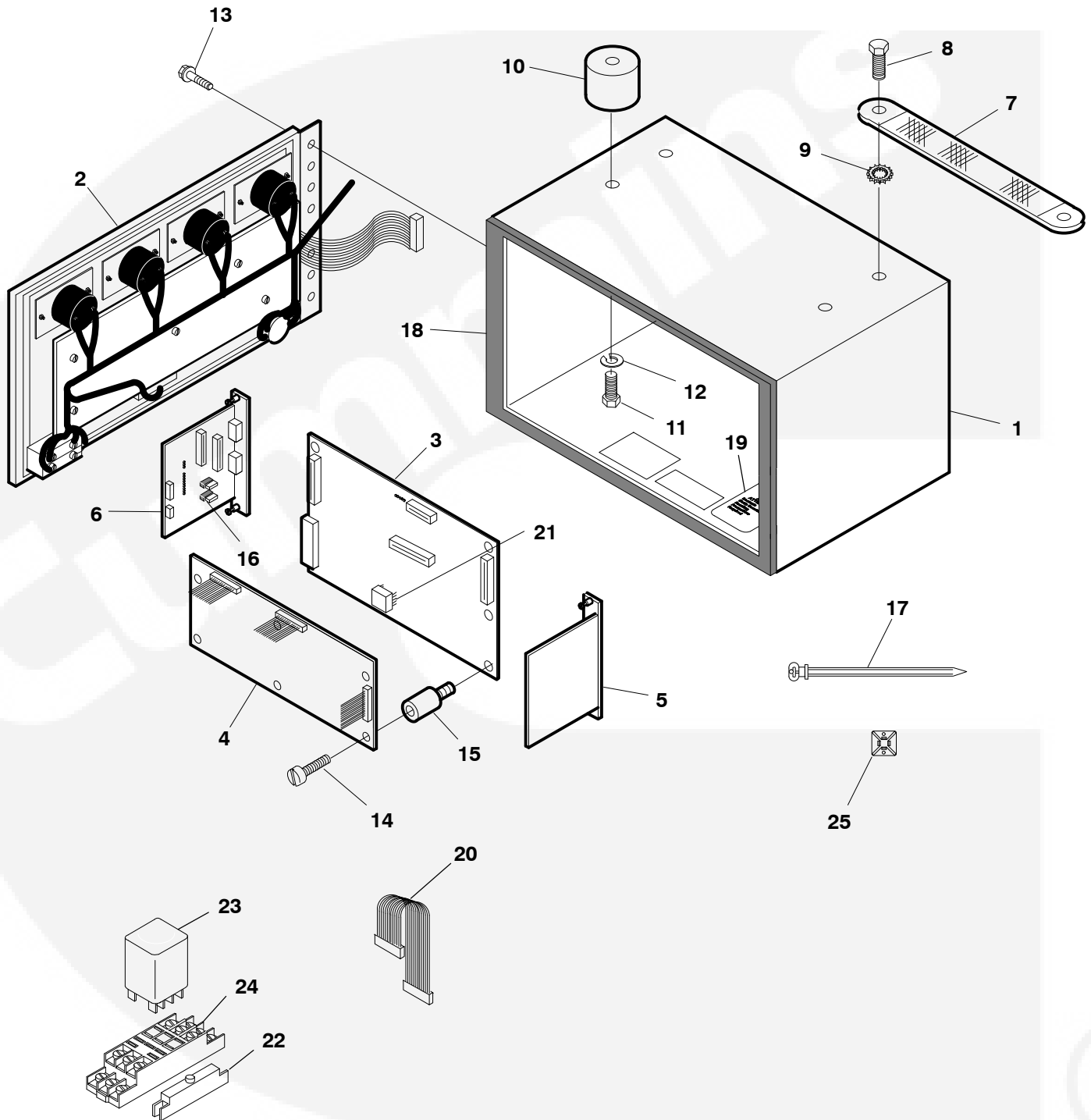


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater Assembly, Control – 100 Watt (Includes Rectifier)	2	357-0114	1	Rectifier (3 Amp)
	300-4515-01	1	120 Volt	3	332-2420	1	Mount, Cable
	300-4515-02	1	240 Volt				

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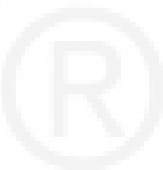


Control Box

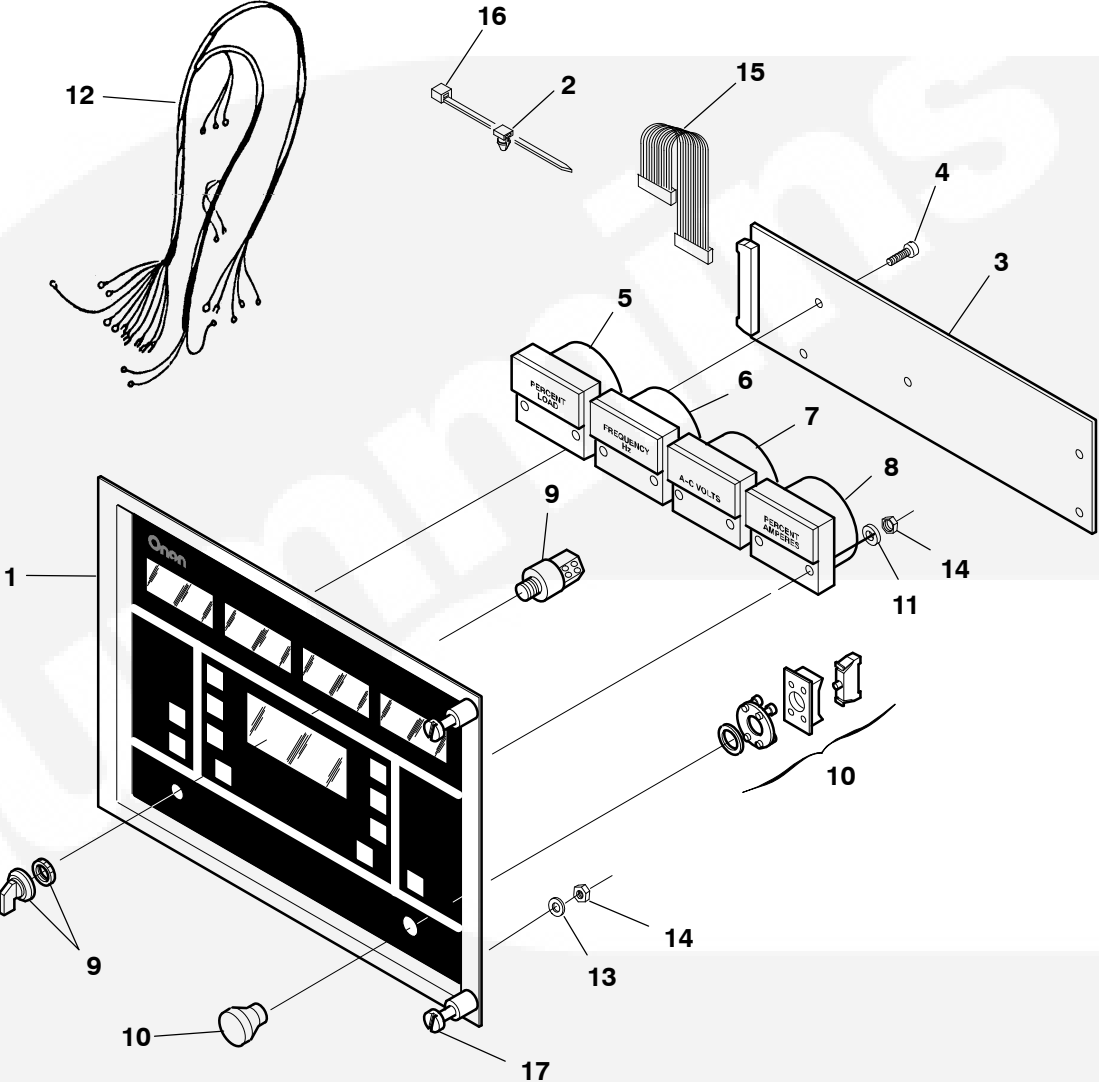


Control Box

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1687	1	Box Assembly – Control (Includes Gasket)	15	332-3235	6	Standoff, Board – PC (#6-32 IT x #6-32 ET x 3/4")
2			Door Assembly – Control (See Separate Page For Components)	16	321-0307-03	2	Fuse, 5 Amp, 32V (F1, F3)
3	300-4079		Board, Printed Circuit – Digital (A32)	17	332-0942	1	Tie, Cable (Quantity Used As Required) (Door Harness)
4			Board, Printed Circuit – Analog (A33)	18	895-0359	1	Gasket, Door
	300-4080-01	1	Single Set	19	098-6940	1	Label, Static Sensitive
	300-4080-02	1	Paralleling Sets	20			Cable, Ribbon (Used On Early PCC Models With Removable Ribbon Cables)
5			Board, Printed Circuit – Customer Interface (A34)		338-2931-02	1	Customer Interface to Digital
	300-4462		Single Set		338-2932-02	1	Customer Interface to Analog
	300-4462-01		Paralleling Sets		338-2932-01	1	Analog to Digital
6	300-4819		Board, Printed Circuit – Engine Interface (A31)		338-2933	1	Analog to Engine Interface
7	337-0049	2	Strap, Bond		338-2931-01	1	Engine Interface to Digital
8	800-0003	2	Screw, Cap – Hex Head (1/4-20 x 1/2")	21			Kit, Language Chip – EPROM (Includes Chip, Instruction Sheets and Warranty)
9	856-0006	2	Washer, Lock – EIT (1/4")		300-4721-04		Single Set
10	402-0527	4	Isolator, Vibration		300-4721-16		Paralleling Sets
11	800-0024	4	Screw, Cap – Hex Head (5/16-18 x 1/2")	22	323-1411-01	2	Clip, Socket Mounting
12	850-0045	4	Washer, Lock (5/16")	23	307-1056-01	3	Relay – Control
13	821-0004	4	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16")	24	323-1410-01	3	Socket, Relay
14	815-0549	6	Screw, Machine – Pan Head – Cross Recessed W/ET (#6-32 x 1/4")	25	332-2420	1	Mount, Cable Tie (Quantity Used As Required)



Control Door



300-4311
300-4431



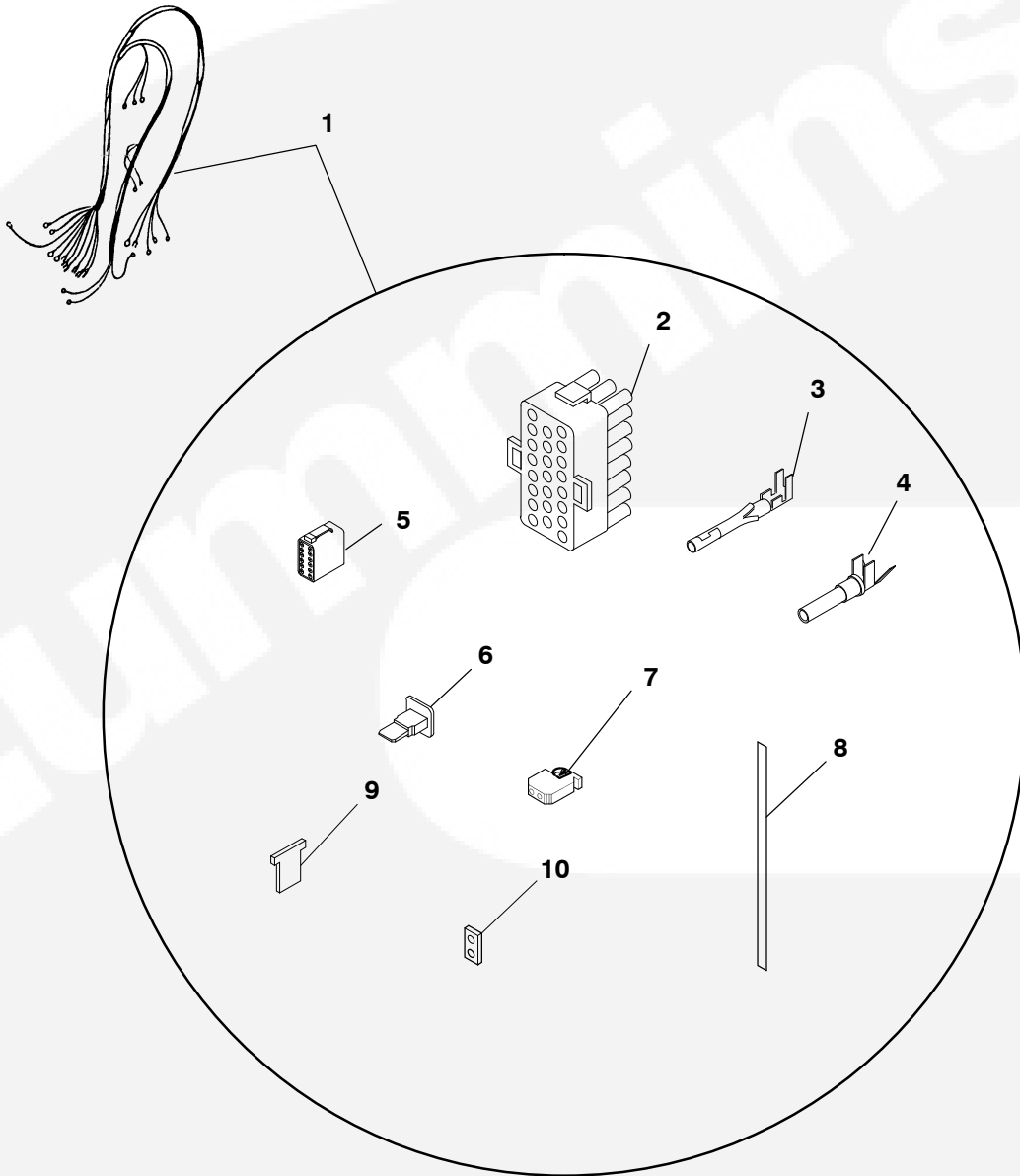
Control Door

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				
	300-4286	1	Paralleling Sets	11	526-0257	8	Washer, Flat (#4)
4	815-0550	5	Screw, Machine – Pan Head – Cross Recessed W/ET (#6-32 x 3/8")	12	338-2937	1	Harness, Wiring – Control Door (Includes Selector Switch and Emergency Stop Switch)
5	302-2012	1	Wattmeter (0-125 %) (M24)	13	526-0417	2	* Washer, Flat (#4)
6	302-2010	1	Meter, Frequency (45-65 Hz) (M23)	14	870-1220	10	* Nut, Hex – W/ET (#4-40)
7			Voltmeter, AC (M21)	15	338-2934	1	Cable, Ribbon (10-1/2") (A32 to A35)
	302-2009-01	1	0-300/0-600 Volt	16	332-0942	4	Tie, Cable
	302-2009-02	1	0-750 Volt	17	406-0761-03	2	* Fastener, Door
	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

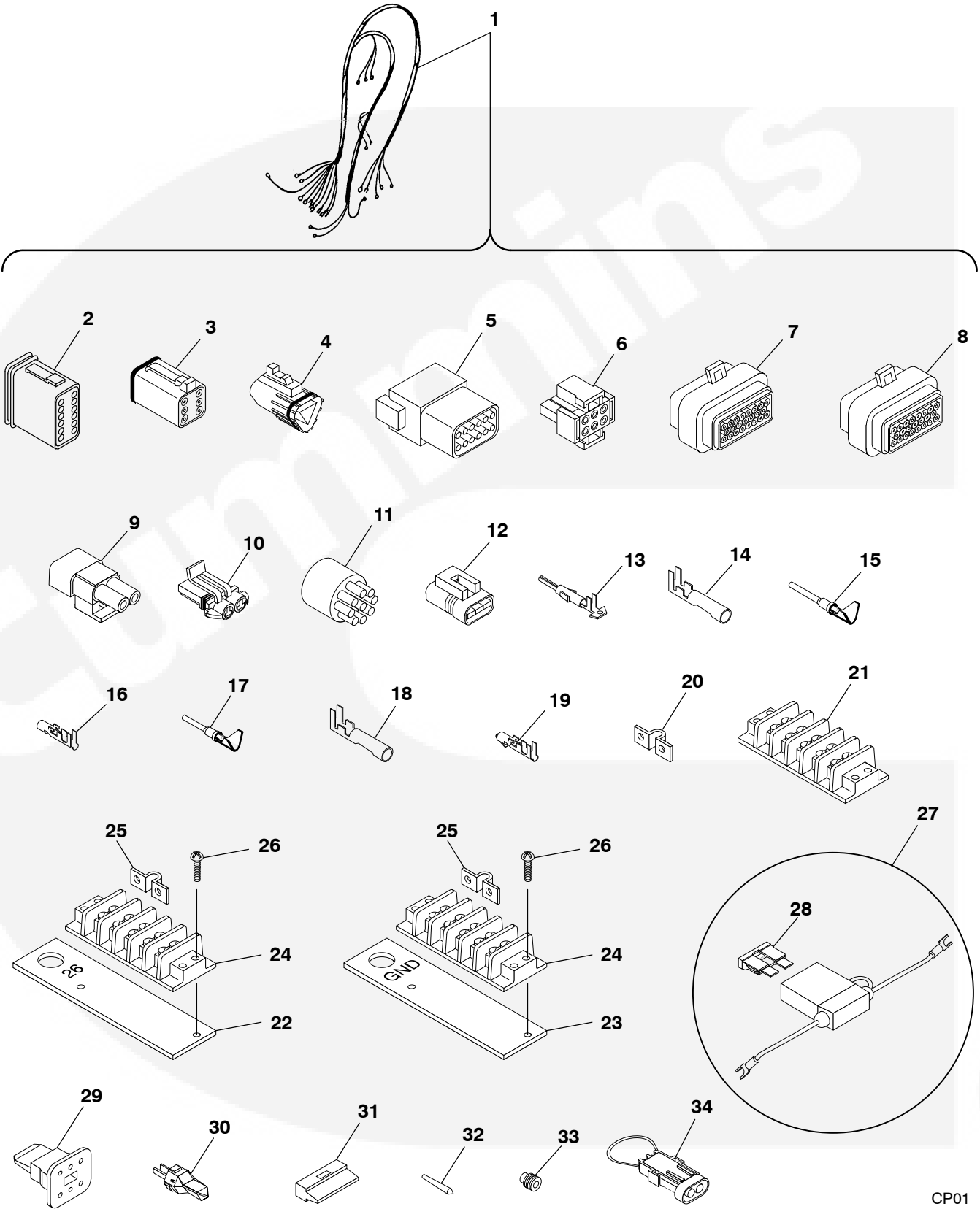


Interconnect Wiring Harness Control

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



Engine Wiring Harness



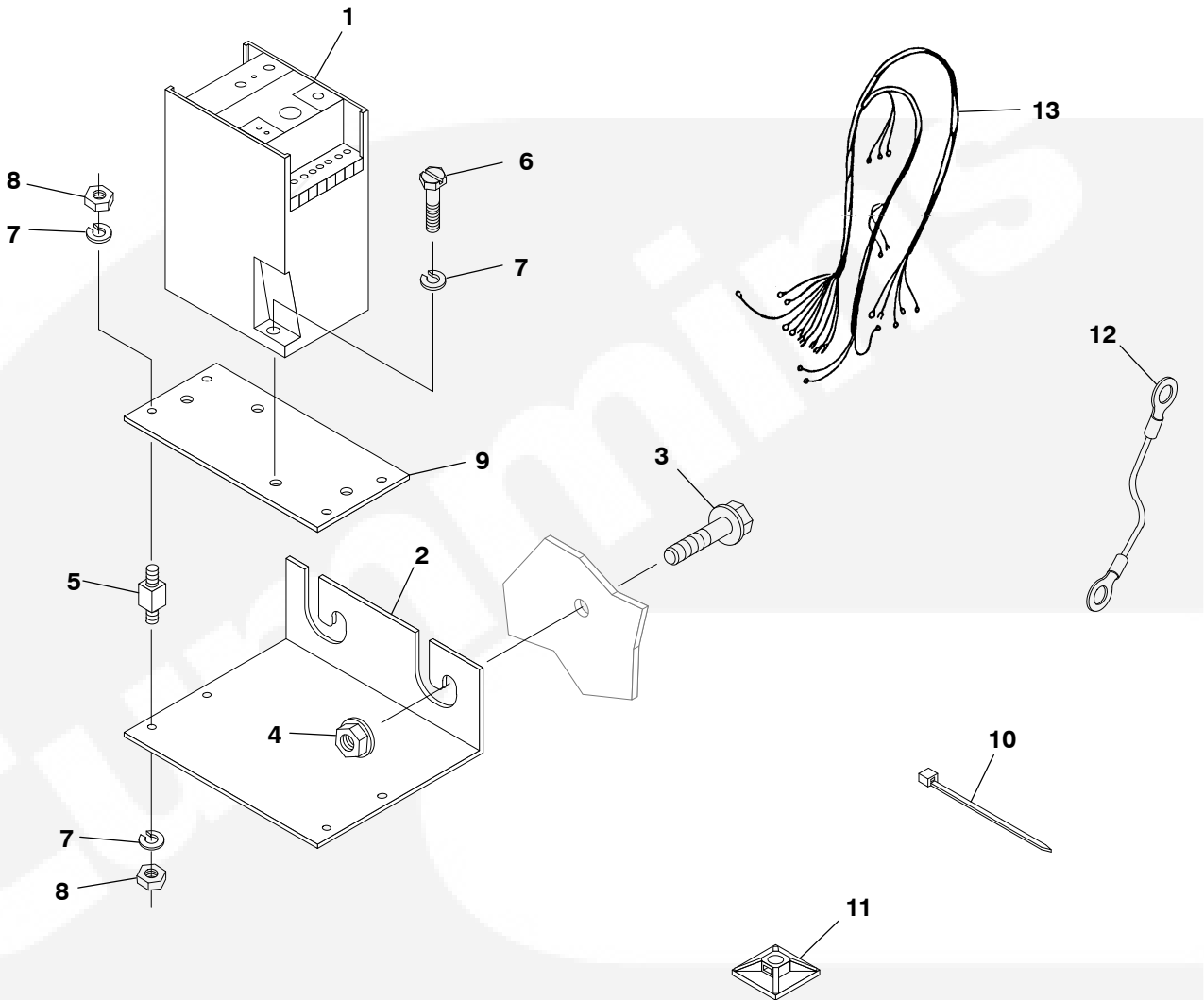
CP01

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)
				19	332-3096-01	4	Terminal, Socket (Used in E2, E4)
2	323-1582	1	Plug (12 Pin) (P13)	20	332-1043	4	Jumper
3	323-1623	1	Plug (6 Pin) (P7)	21	332-0604	1	Block, Terminal
4	323-1493	2	Plug (3 Pin) (P3)	22	319-2006-01	1	Bracket, Terminal Mounting (T26)
5	323-1580	1	Housing Receptacle (J12)	23	319-2006-02	1	Bracket, Terminal Mounting (Ground)
6	323-1643-01	1	Housing Plug	24	332-0604	2	Block, Terminal
7	323-1605-04	1	Connector, Plug (Blue) (P5)	25	332-1043	8	Jumper
8	323-1605-02	2	Connector, Plug (Natural) (P4, P6)	26	815-0538	4	Screw, Machine – Round Head – Cross Recessed W/IT (#8-32 x 1/2")
9	323-1637	3	Connector, Socket (E6, E7, P1)	27	321-0339	1	Holder Assembly, Fuse (Includes Fuse Holder, Fuse, and Spade Terminal)
10	323-1540	2	Connector, Socket (E2, E4)	28	321-0307-07	1	Fuse (20 Amp, 32 Volt, Yellow)
11	323-1730	2	Connector, Actuator (J14, J15)	29	323-1624	1	Wedge, Lock – Plug (Used in P7)
12	323-1738	1	Connector, Socket	30	323-1503	2	Wedge, Lock (3 Pin)
13	323-1614-01	51	Socket, Contact (Used in P4, P5, P6)	31	323-1581	1	Wedge, Receptacle (12 Pin)
14	323-1444	6	Terminal, Socket (Used in E6, E7, P1)	32	323-1615	3	Plug (Used in P4, P5, P6)
15	323-1491	6	Terminal, Socket (Used in J12)	33	323-1445	6	Seal, Cable (Used in E2, E4, E6, E7, J11)
16	323-1667	3	Terminal, Socket (Used in E1)	34	338-3285	2	Harness, Jumper (E6, E7)
17	323-1492	32	Socket, Female (Used in J11, J14, J15, P3, P7, P13)				



Ground Fault Alarm Relay
DFHA, DFHB Spec A-F, DFHC Spec A-E, DFHD Spec A-C

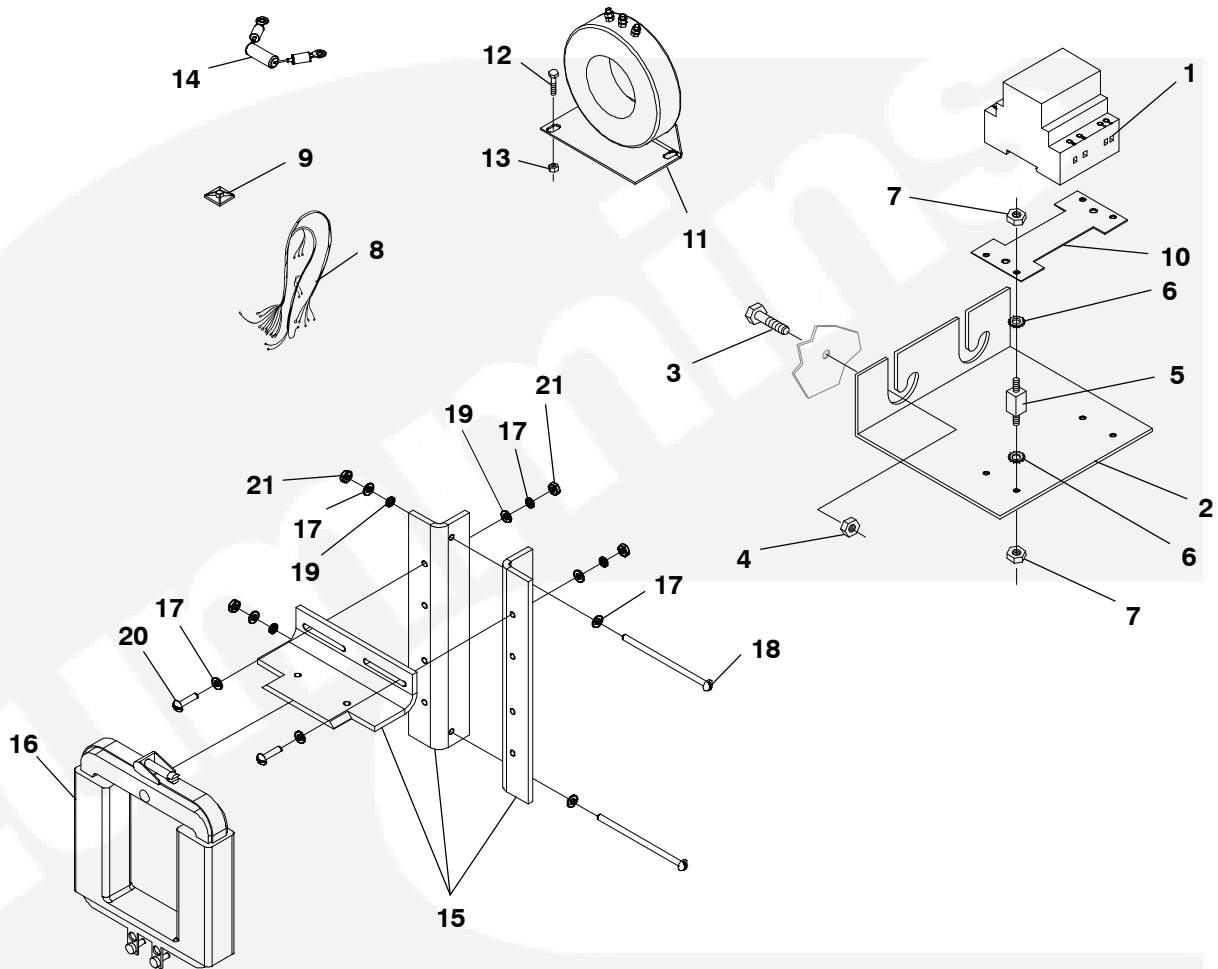


H550

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) (From Generator Neutral to Generator Grounding Bolt)
6	812-0081	2	Screw, Round Head Steel Machine (#8-32 x 5/8")	13	338-3233	1	Harness, Wiring - Relay
7	853-0005	8	Washer, Lock - W/ET (#8)				

Ground Fault Relay

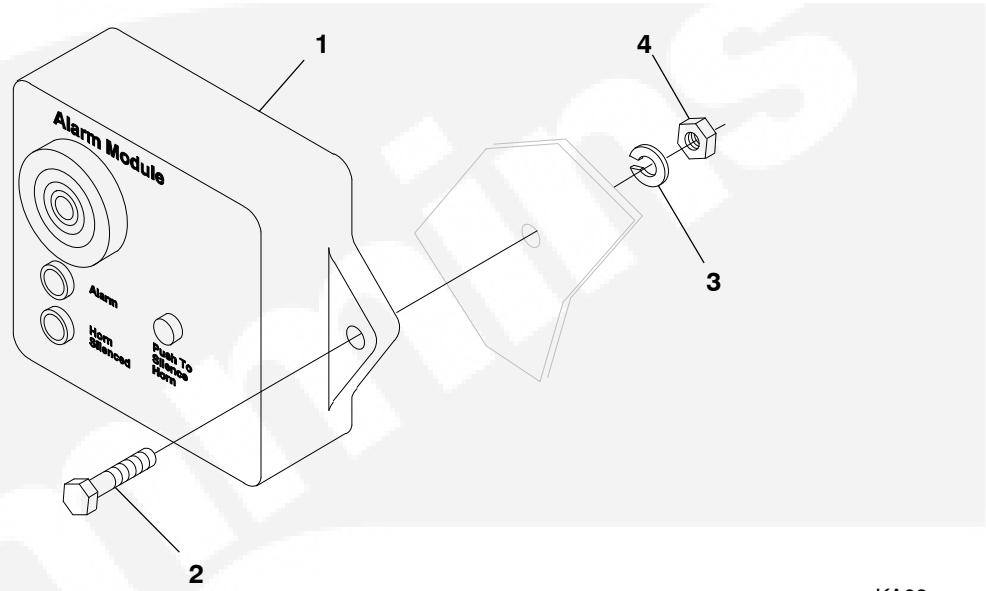
DFHA, DFHB Begin Spec G, DFHC Begin Spec F, DFHD Begin Spec D



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-3003-01	1	Relay, Ground Fault	13	870-0212	2	Nut, Self-Locking (1/4-20)
2	301-6987	1	Bracket, Watts Transducer	14	338-4386	1	Harness, Meter - Resistor
3	821-0017	2	Screw, Locking (5/16-18 x 1/2)	15	315-1622	1	* Bracket, Transformer - Current
4	870-0257	2	Nut, Self-Locking (5/16-18)	16	315-1621	1	* Transformer, Current
5	402-0354	4	Mount, Shock	17	526-0003	8	* Washer, Flat (3/16)
6	853-0005	8	Washer, Lock - W/ET (#8)	18	812-0094	2	* Screw, Slotted - Round Head (#8-32 x 3.50)
7	870-0221	8	Nut, Hex - W/ET (#8-32)	19	850-0025	4	* Washer, Lock - Split (#8)
8	338-4408	1	Harness, Relay	20	812-0082	2	* Screw, Slotted - Round Head (#8-32 x .75)
9	332-2420	2	Mount, Cable Tie	21	860-0008	4	* Nut, Hex (#8-32)
10	319-5038-02	1	Plate, Mounting - Relay				
11	315-1605-01	1	Transformer, Current (Used With 4 Pole Separately Derived Transfer Switch)				
12	821-0010	2	Screw, Locking (1/4-20 x 1/2)				

* Used With 3 Pole Non-Separately Derived Transfer Switch

Alarm Module

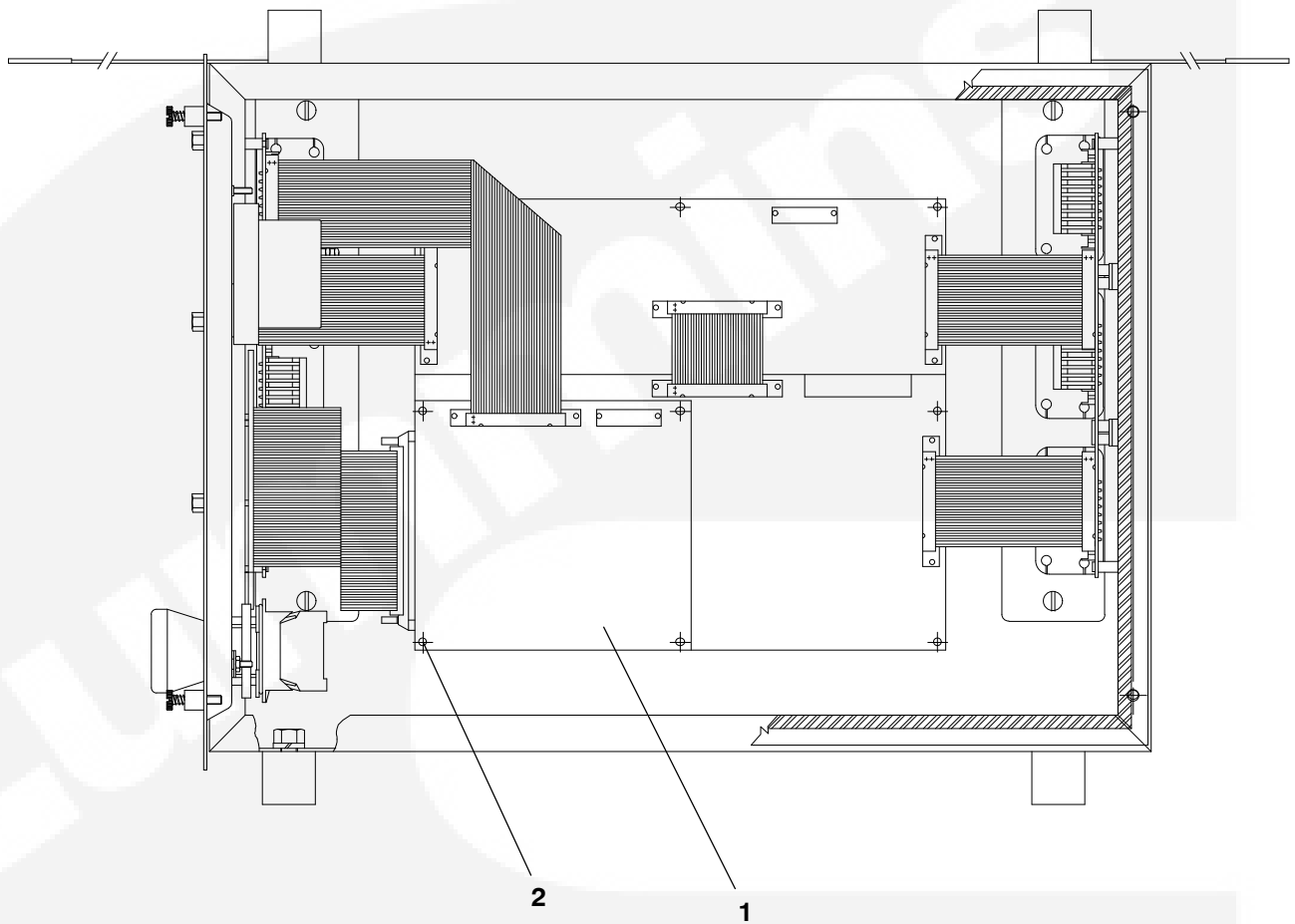


KA08

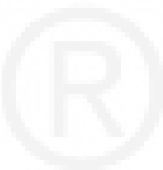
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-3998-01	1	Module, Alarm	3	850-0040	2	Washer, Lock (1/4")
2	800-0006	2	Screw, Cap - Hex Head (1/4-20 x 7/8")	4	862-0001	2	Nut, Hex (1/4-20)



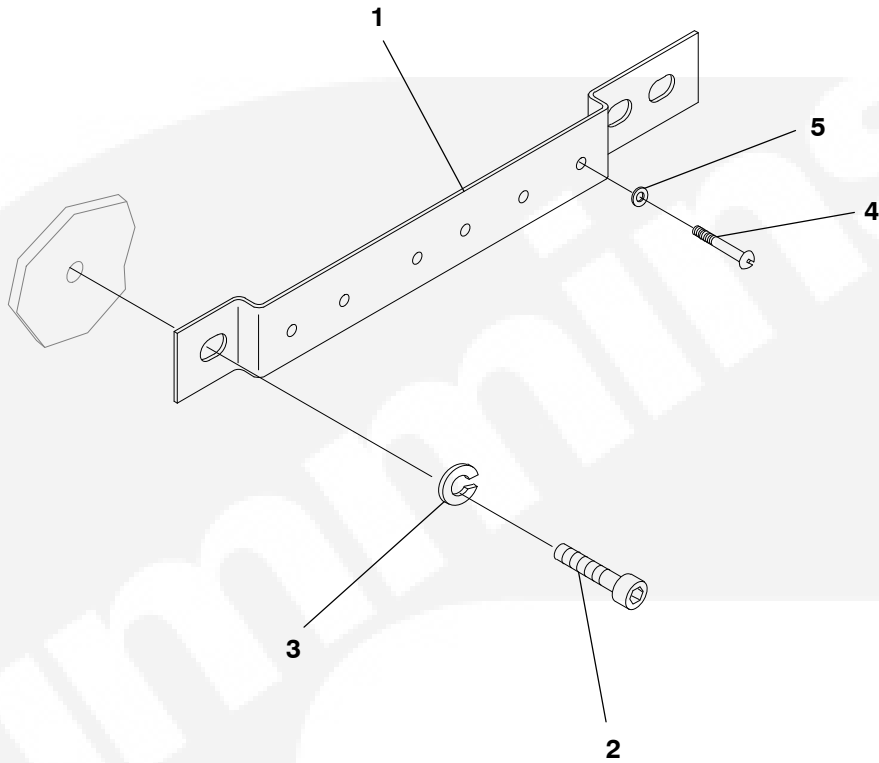
GCM Module (FT-10)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	327-1301	1	Board, Printed Circuit - GCM				
2	332-3235	4	Standoff, Printed Circuit Board (#6-32 x .75)				



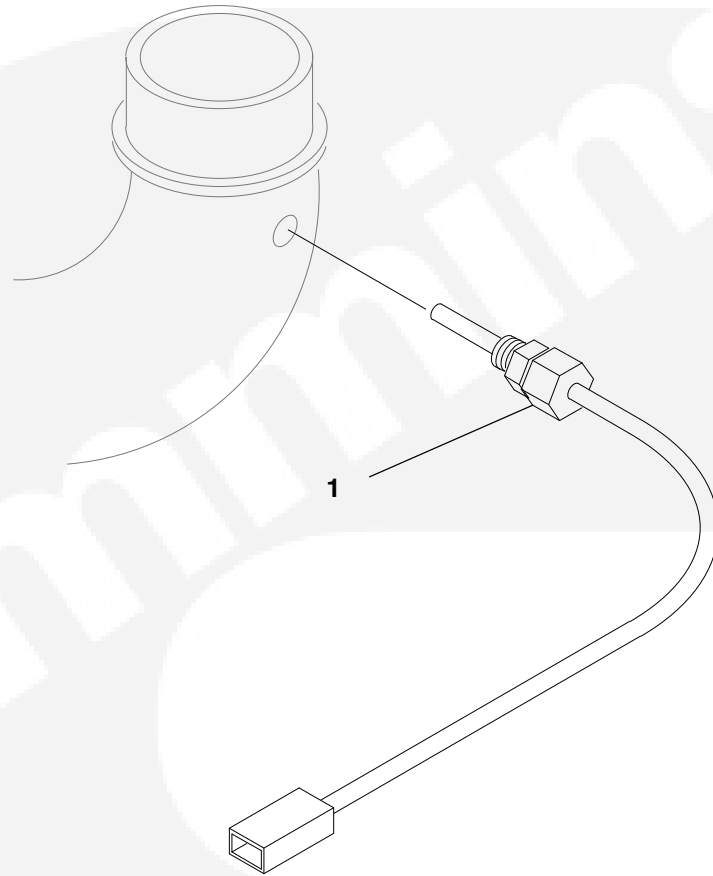
Resistive Temperature Detector DFHD



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)				

Pyrometer

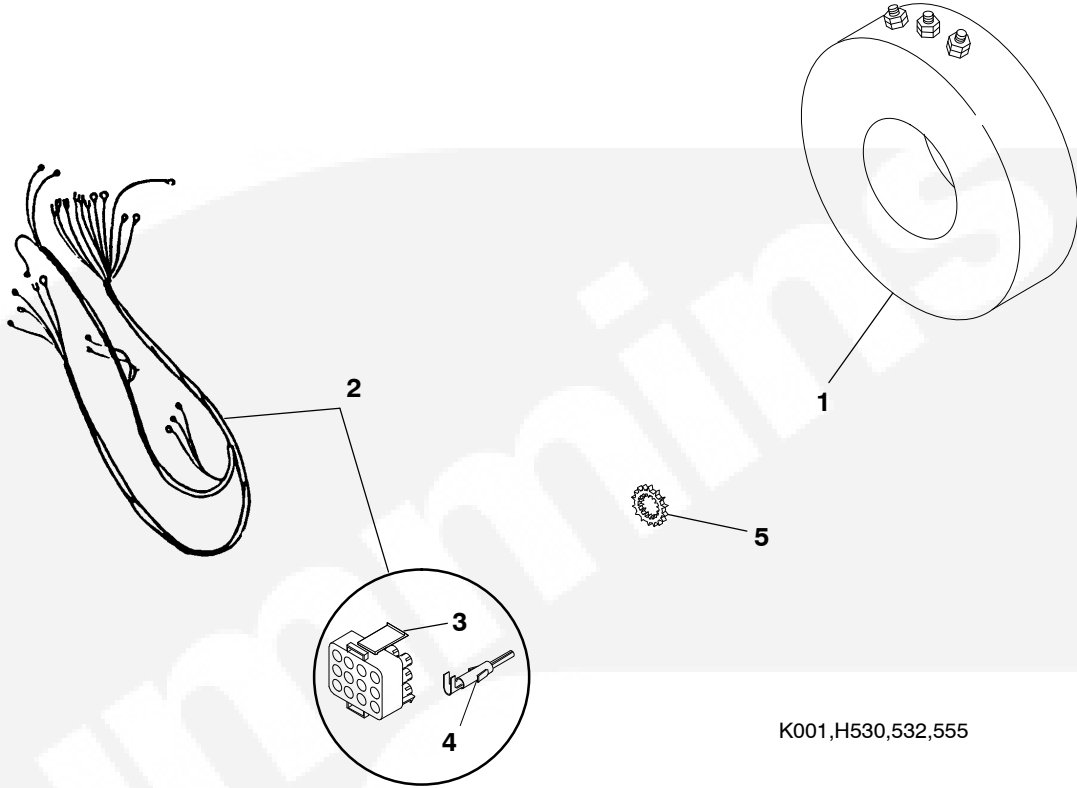


H244



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



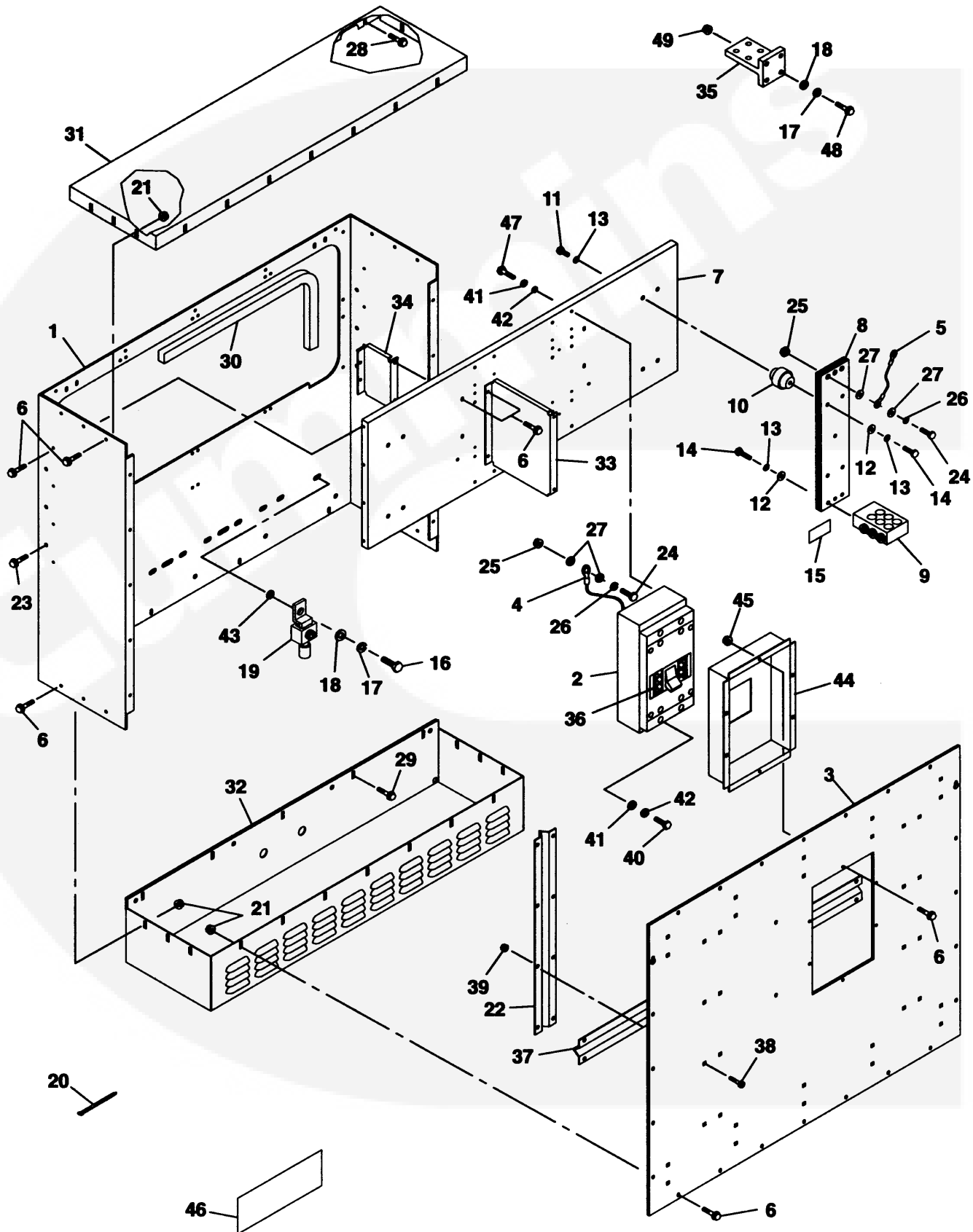
K001,H530,532,555

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

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Circuit Breaker
UL Listed
DFHA, DFHB, DFHC Spec A



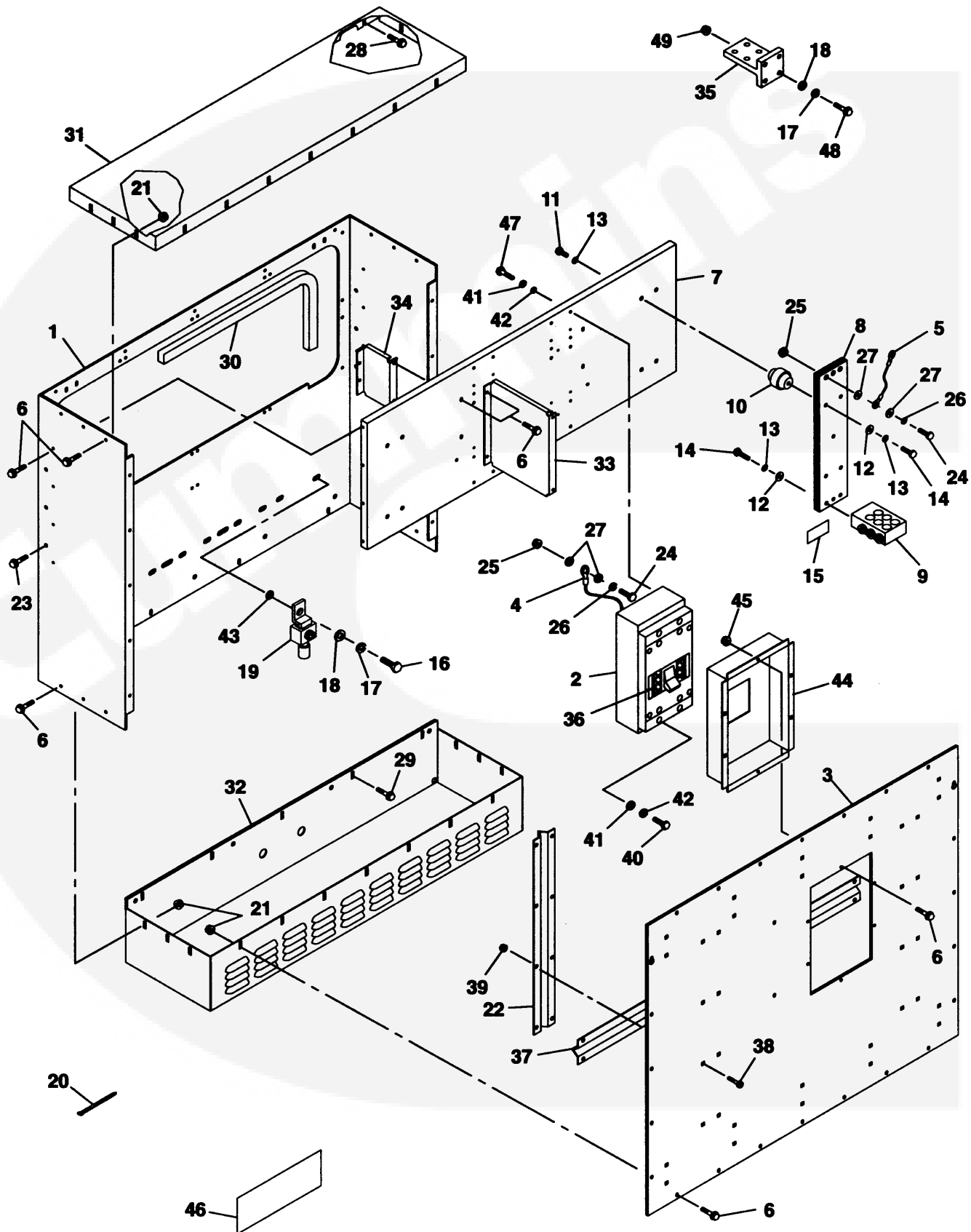
**Circuit Breaker
UL Listed
DFHA, DFHB, DFHC Spec A**

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 320-1906-21
2			Breaker, Circuit – Three Pole, 600 Volt (Includes Lugs) (CB21)				Merlin Gerin 1/2" ID Ring to 1/2" Ring – 30" Long
	320-1461-09	1	General Electric Standard (1000 Amp) – DFHA, DFHB		226-4498-03	28	All Circuit Breakers Except 320-1907-01
	320-1465-09	1	With Auxiliary Contacts (1000 Amp) – DFHA, DFHB		226-4498-03	32	Circuit Breaker 320-1907-01
	320-1473-09	1	With Shunt Trip (1000 Amp) – DFHA, DFHB	5			Lead (#1 Wire) 1/2" ID Ring to 1/2" ID Ring – 39" Long (Not Used With Merlin Gerin Circuit Breakers)
	320-1493-09	1	With Shunt Trip and Auxiliary Contacts (1000 Amp) – DFHA, DFHB		226-4406-04	5	General Electric Circuit Breakers Except 320-1906-21
	320-1906-20	1	With Molded Case Switch (1000 Amp) – DFHA, DFHB		226-4406-04	6	General Electric Circuit Breaker 320-1906-21
	320-1906-21	1	With Molded Case Switch (1200 Amp)	6			Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
			Merlin Gerin Standard		821-0010	58	General Electric Circuit Breakers
	320-1783-01	1	1250 Amp		821-0010	44	Merlin Gerin Circuit Breakers
	320-1783	1	1600 Amp				Bracket, Circuit Breaker Mounting
	320-1783-02	1	2000 Amp – DFHC				General Electric Circuit Breakers
			With Shunt Trip	7			Merlin Gerin Circuit Breakers
	320-1783-05	1	1250 Amp		319-1963	1	Bar Assembly Kit, Neutral (Includes Parts Marked *)
	320-1783-04	1	1600 Amp				* Lug
	320-1783-06	1	2000 Amp – DFHC		319-1962	1	* Standoff, Insulator
			With Shunt Trip, Auxiliary Contacts, and Bell Alarm	8	337-2790	1	* Screw, Cap – Hex Head (3/8-16 x 1")
	320-1783-09	1	1250 Amp				* Washer, Flat (3/8")
	320-1783-08	1	1600 Amp	9	332-3303	1	* Washer, Lock – Spring (3/8")
	320-1783-10	1	2000 Amp – DFHC	10	332-2744-07	4	* Screw, Cap – Hex Head (3/8-16 x 1-1/2")
			With Auxiliary Contacts and Bell Alarm	11	800-0050	4	* Strip, Copper (Used for wrapping ends of leads before securing to circuit breakers) (Quantity Used as Required)
	320-1783-18	1	1250 Amp	12	526-0029	7	Screw, Cap – Hex Head (3/8-16 x 1")
	320-1783-17	1	1600 Amp	13	850-0050	11	Washer, Lock – Spring (3/8")
	320-1783-19	1	2000 Amp – DFHC	14	800-0052	7	All Circuit Breakers Except 320-1907-01
			With Molded Case Switch	15	091-0002	1	Circuit Breaker 320-1907-01
	320-1907-01	1	1600 Amp				
	320-1907-02	1	2000 Amp – DFHC				
3			Cover, Circuit Breaker Box				
	319-1959-01	1	Merlin Gerin Circuit Breakers	16	800-0050	1	Screw, Cap – Hex Head (3/8-16 x 1")
	319-1964	1	General Electric Circuit Breakers	17			Washer, Lock – Spring (3/8")
4			Lead (#1 Wire)		850-0050	1	All Circuit Breakers Except 320-1907-01
			General Electric 1/2" ID Ring to 1" Strip – 39" Long		850-0050	26	Circuit Breaker 320-1907-01
	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

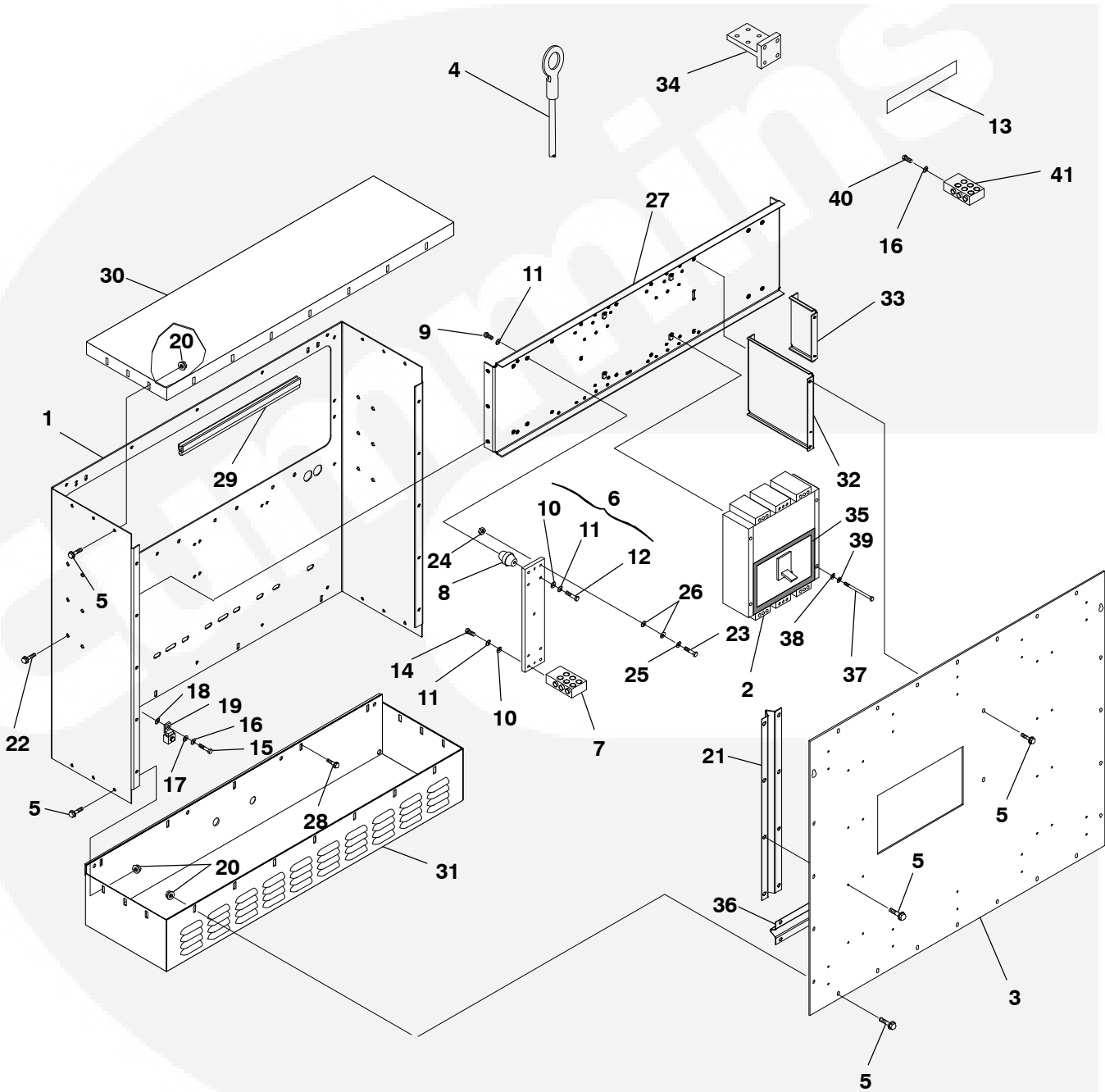


**Circuit Breaker
UL Listed
DFHA, DFHB, DFHC Spec A**

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") General Electric Circuit Breakers		319-2316-01	1	General Electric Circuit Breakers
	526-0029	2	Merlin Gerin Circuit Breakers Except 320-1907-01	35	337-2789	2	Merlin Gerin Circuit Breakers
	526-0029	38	Merlin Gerin Circuit Breaker 320-1907-01	36			Bar, Bus (Sold in Packages of 3 Pieces - 4 Pieces Required) (Used With Merlin Gerin Circuit Breakers)
19	332-2001	1	Lug, CSA Grounding - Solderless		895-0182	-	Stripping, Weather - Bulk (Order by the Foot)
20	332-1389	1	Tie, Cable (Quantity Used as Required)				General Electric Circuit Breakers (1 Foot Required)
21	870-0494	26	Nut, Self-Retaining (1/4-20)		895-0182	-	Merlin Gerin Circuit Breakers (4 Feet Required)
22	319-2398	2	Brace, Cover (Vertical)	37	319-2399	2	Brace, Cover (Horizontal)
23	821-0030	6	Screw, Self-Locking - Hex Washer Head (3/8-16 x 1") (Used With Merlin Gerin Circuit Breakers Only)	38	816-0098	36	Bolt, Carriage (5/16-18 x 5/8")
24			Screw, Cap - Hex Head (1/2-13 x 2")	39	870-0257	36	Nut, Locking (5/16-18)
	800-0094	15	General Electric Circuit Breakers	40	800-0033	4	Screw, Cap - Hex Head (5/16-18 x 2")
	800-0094	32	Merlin Gerin Circuit Breakers	41			Washer, Flat (5/16")
25			Nut, Hex Head (1/2-13)		526-0115	8	General Electric Circuit Breakers
	862-0005	15	General Electric Circuit Breakers		526-0115	4	Merlin Gerin Circuit Breakers
	862-0005	32	Merlin Gerin Circuit Breakers	42			Washer, Lock - Spring (5/16")
26			Washer, Lock - Spring (1/2")		850-0045	8	General Electric Circuit Breakers
	850-0060	15	General Electric Circuit Breakers		850-0045	4	Merlin Gerin Circuit Breakers
	850-0060	32	Merlin Gerin Circuit Breakers	43	856-0010	1	Washer, Lock W/EIT (3/8")
27			Washer, Flat (1/2")	44	319-2431-18	1	Cup, Circuit Breaker (Used with General Electric Circuit Breakers)
	526-0219	30	General Electric Circuit Breakers	45	870-0212	6	Nut, Self-Locking (1/4-20) (Used with General Electric Circuit Breakers)
	526-0219	64	Merlin Gerin 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)
28	821-0018	5	Screw, Self-Locking - Hex Washer Head (1/4-20 x 5/8")	47	800-0031	4	Screw, Cap - Hex Head (5/16-18 x 1-1/2") (Used on General Electric Circuit Breakers)
29	821-0011	5	Screw, Self-Locking - Hex Washer Head (1/4-20 x 7/8")	48	800-0054	13	Screw, Cap - Hex Head (3/8-16 x 2") (Used with Merlin Gerin Circuit Breaker with Molded Case Switch)
30			Edging - Bulk (Order by the Foot - 3 Feet Required)	49	862-0003	12	Nut, Hex (3/8-16) (Used with Merlin Gerin Circuit Breaker with Molded Case Switch)
	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 Spec B-F, DFHC Spec B-E, DFHD Spec A-C

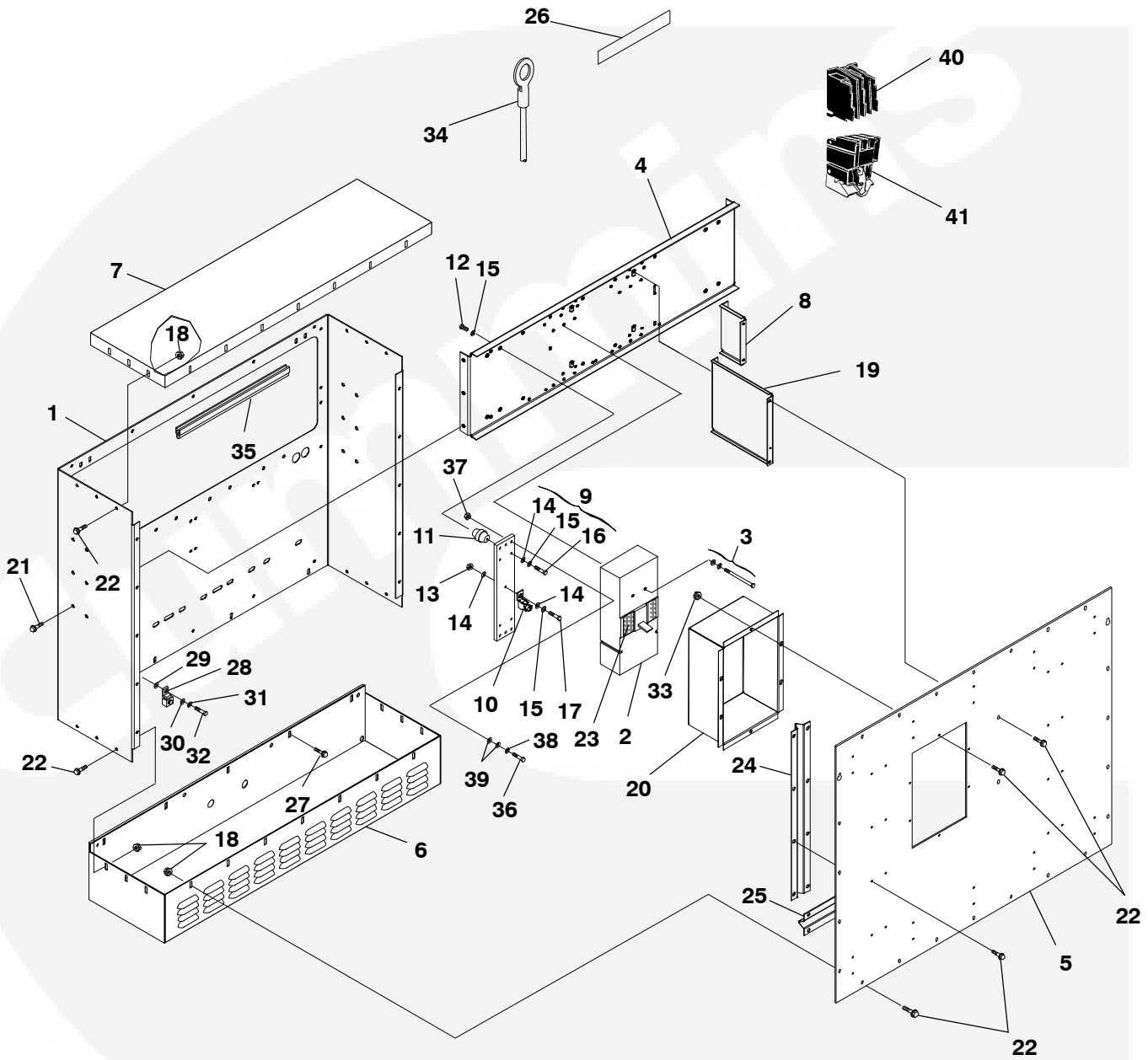


**Circuit Breaker
UL Listed
DFHA, DFHB Spec B-F, DFHC Spec B-E, DFHD Spec A-C**

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

* – Parts Included in 300-4480 Neutral Bar Assembly

Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
DFHA, DFHB Spec B-F, DFHC Spec B-E, DFHD Spec A-C



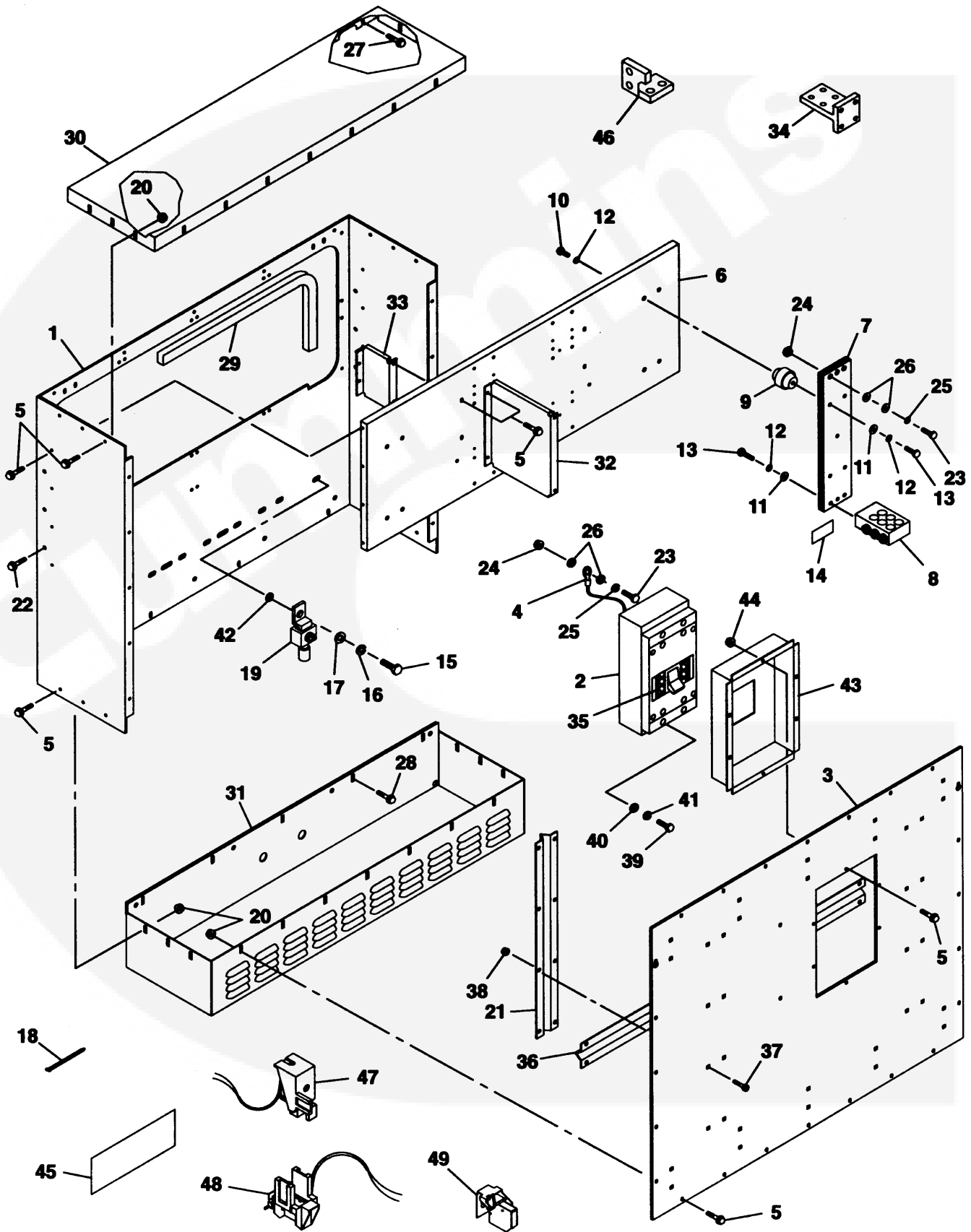
Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
DFHA, DFHB Spec B-F, DFHC Spec B-E, DFHD Spec A-C

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 wrapping end of leads before securing to Circuit Breaker)
2			Breaker, Circuit – The following Circuit Breakers and Disconnect Switches include mounting hardware.	27	821-2034	5	Screw, Self-Locking – Hex Washer Head (M6 x 20mm)
			Three Pole	28	332-2001	1	Lug, Solderless
	320-1964-02	1	1000 Amp	29	856-0010	1	Washer – W/EIT (3/8")
	320-1964-01	1	1200 Amp	30	526-2120	1	Washer, Flat (M10)
			Four Pole (IEC)	31	850-2010	1	Washer, Lock (M10)
	320-1964-07	1	1000 Amp – DFHC	32	800-2086	1	Screw, Cap – Hex Head (M10 x 25mm)
	320-1964-06	1	1250 Amp	33	870-2054	6	Nut, Locking – Hex Flange Head (M6)
			Disconnect Switch	34			Lead (Quantity Used As Required) (Without Markings) (39")
	320-1992-01	1	1200 Amp		226-4406-03	1	1/2" Ring Terminal End to 1" Stripped End
3	320-1986-01	1	Package, Hardware – Circuit Breaker Mounting (Includes Screws, Nuts and Lock Washers) – Used With 320-1964-XX and 320-1992-01 Circuit Breakers		226-4406-04	1	1/2" Ring Terminal End to 1/2" Ring Terminal End
4	319-3153	1	Bracket, Mounting				Edging – Bulk (Order by the Foot – 3 Feet Required)
5	319-3300	1	Cover, Circuit Breaker Box	35	508-1109	-	Screw, Cap – Hex Head (M12 x 40mm)
6	319-1925	1	Cover, Control Box (Bottom)				3 Pole Breakers and Disconnect Switches
7	319-1961	1	Cover, Control Box (Top)				4 Pole Breakers
8	319-3253-01	1	Brace, Mounting	36			Washer, Lock – Spring (M12)
9	300-4318	1	Bar Assembly, Neutral (All except 4 Pole Circuit Breakers) (Includes Parts Marked *)		800-2114	10	3 Pole Breakers and 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 (3/8-16 x 3/4")		860-2010	10	3 Pole Breakers and 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 Disconnect Switches
16	800-0051	2	* Screw, Cap – Hex Head (3/8-16 x 1-1/4")		850-2012	8	4 Pole Breakers
17	800-0052	3	* Screw, Cap – Hex Head (3/8-16 x 1-1/2")	39			Washer, Flat (M12)
18	870-0504	30	Nut, Self-Retaining (M6)		526-2140	20	3 Pole Breakers and 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 Breaker:
21	821-6003-02	6	Screw, Hex Head (M8 x 20mm)				The following are used on 320-1964-XX Circuit Breakers
22	821-6002-03	91	Screw, Hex Head (M6 x 16mm)	40	320-1977-01	1	Switches – Includes 1 Trip Alarm and 1 Auxiliary Contact
23	895-0182	-	Stripping, Weather – Bulk (Order by the Foot – 1 Foot 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



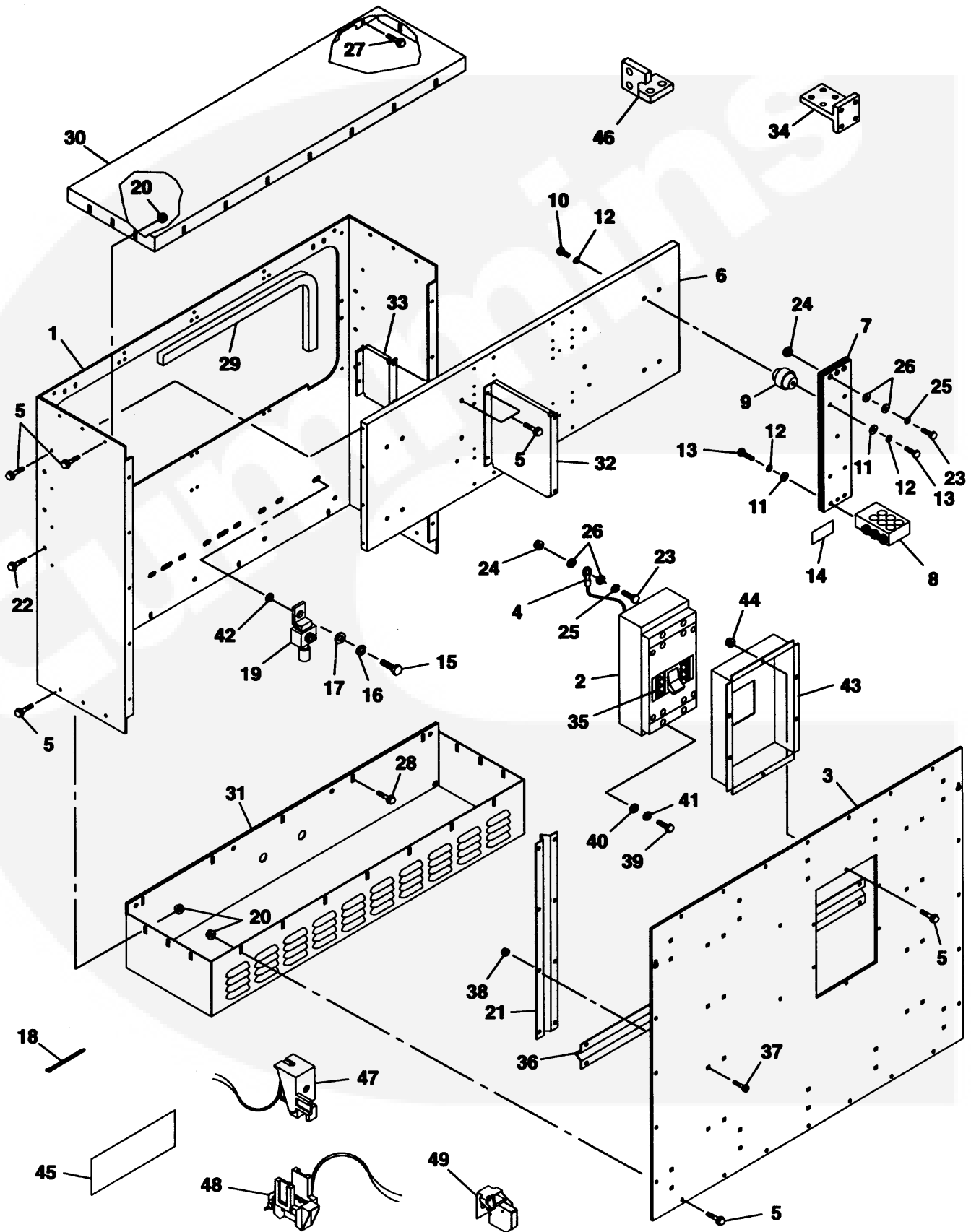
**Circuit Breaker
Non-UL Listed
DFHA, DFHB, DFHC Spec A**

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 Washer Head (1/4–20 x 1/2")
2			Breaker, Circuit (CB21) Three Pole Breakers				General Electric Circuit Breakers
	320-1730-04	1	Standard – 750 Volt, 1250 Amp (General Electric) – DFHA, DFHB		821-0010	58	Merlin Gerin Circuit Breakers
	320-1699	1	Standard – 660 Volt, 1600 Amp (Merlin Gerin)	6			Bracket, Circuit Breaker Mounting
	320-1699-04	1	With Shunt Trip – 660 Volt, 1600 Amp (Merlin Gerin)		319-1963	1	General Electric Circuit Breakers
	320-1699-08	1	With Shunt Trip, Auxiliary Contacts, and Bell Alarm – 660 Volt, 1600 Amp (Merlin Gerin)		319-1962	1	Merlin Gerin Circuit Breakers
			Four Pole Breakers	7	337-2790	1	Bar Assembly Kit, Neutral (Used With 3 Pole Breakers) (Includes Neutral Bars, Labels, and Parts Marked *)
	320-1730-08	1	Standard – 750 Volt, 1250 Amp (General Electric) – DFHA, DFHB	8	332-3303	1	* Lug
				9	332-2744-07	4	* Standoff, Insulator
	320-1699-21	1	Standard – 660 Volt, 1600 Amp (Merlin Gerin) – DFHB, DFHC	10	800-0050	4	* Screw, Cap – Hex Head (3/8–16 x 1")
				11	526-0029	7	* Washer, Flat (3/8")
	320-1699-25	1	With Shunt Trip – 660 Volt, 1250 Amp (Merlin Gerin) – DFHB, DFHC	12	850-0050	11	* Washer, Lock – Spring (3/8")
				13	800-0052	7	* Screw, Cap – Hex Head (3/8–16 x 1-1/2")
	320-1699-29	1	With Shunt Trip, Auxiliary Contacts, and Bell Alarm – 660 Volt, 1600 Amp (Merlin Gerin) – DFHB, DFHC	14	091-0002	1	* Strip, Copper (Used for wrapping ends of leads before securing to circuit breakers) (Quantity Used as Required)
				15	800-0050	1	Screw, Cap – Hex Head (3/8–16 x 1")
				16	850-0050	1	Washer, Lock – Spring (3/8")
				17			Washer, Flat (3/8")
					526-0029	4	General Electric Circuit Breakers
					526-0029	2	Merlin Gerin Circuit Breakers
3			Cover, Circuit Breaker				
	319-1959-01	1	Merlin Gerin Three Pole Circuit Breakers	18	332-1389	1	Tie, Cable (Quantity Used As Required)
	319-1959-01	1	Merlin Gerin Four Pole Circuit Breakers (Right Side Mounted) – DFHB	19	332-2001	1	Lug, CSA Grounding – Solderless
	319-1959-02	1	Merlin Gerin Four Pole Circuit Breakers (Left Side Mounted) – DFHB	20	870-0494	26	Nut, Self-Retaining (1/4–20)
				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)	23			Screw, Cap – Hex Head (1/2–13 x 2")
			General Electric				General Electric Circuit Breakers
			1/2" ID Ring to 1/2" ID Ring – 39" Long		800-0094	15	Merlin Gerin 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

Continued...

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

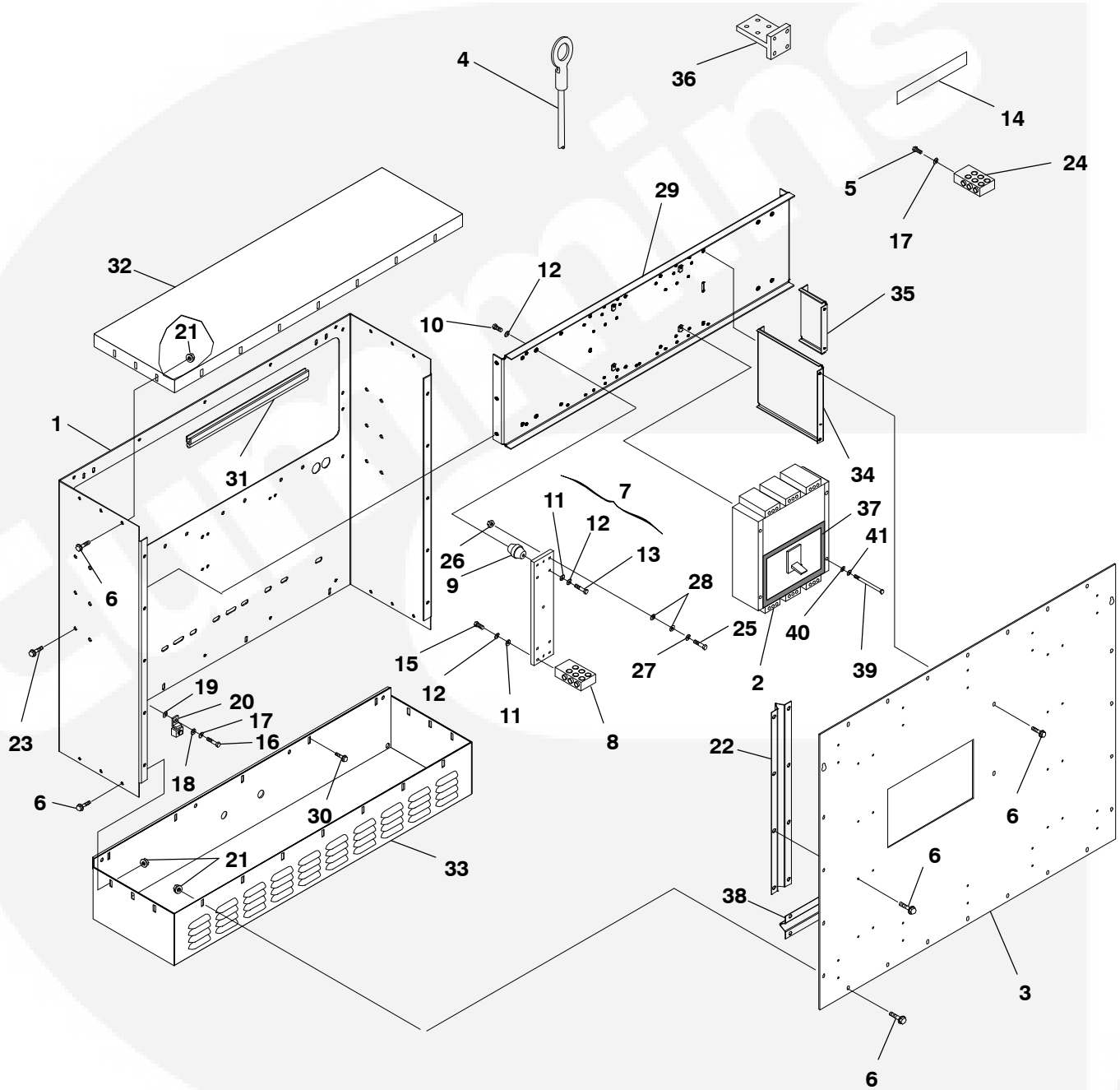


**Circuit Breaker
Non-UL Listed
DFHA, DFHB, DFHC Spec A**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...					895-0182	-	Merlin Gerin 4 Pole Circuit Breakers (6 Feet Required)
24	862-0005	15	Nut, Hex Head (1/2-13) General Electric Circuit Breakers	36	319-2399	2	Brace, Cover (Horizontal)
	862-0005	30	Merlin Gerin Circuit Breakers	37	816-0098	36	Bolt, Carriage (5/16-18 x 5/8")
25			Washer, Lock - Spring (1/2") General Electric Circuit Breakers	38	870-0257	36	Nut, Locking (5/16-18)
	850-0060	15		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")
				41	850-0045	4	Washer, Lock - Spring (5/16")
				42	856-0010	1	Washer, Lock W/EIT (3/8")
26			Washer, Flat (1/2") General Electric Circuit Breakers	43	319-2431-20	1	Cup, Circuit Breaker (Used with General Electric Circuit Breakers)
	526-0219	30					
	526-0219	60	Merlin Gerin Circuit Breakers	44	870-0212	6	Nut, Self-Locking (1/4-20) (Used with General Electric Circuit Breakers)
27	821-0018	5	Screw, Self-Locking - Hex Washer Head (1/4-20 x 5/8")	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)
28	821-0011	5	Screw, Self-Locking - Hex Washer Head (1/4-20 x 7/8")				
29	508-1109	-	Edging - Bulk (Order by the Foot - 3 Feet Required)	46			Lug, Breaker
30	319-1961	1	Cover, Control Box (Top)		320-1755-05	3	General Electric 3 Pole Circuit Breakers
31	319-1925	1	Cover, Control Box (Bottom)				
32			Brace, Cover General Electric Circuit Breakers		320-1755-05	4	General Electric 4 Pole Circuit Breakers
	319-1926-01	1		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			Brace, Control Box Mount General Electric Circuit Breakers	49	320-1747-08	1	Contact, Auxiliary (1250 Amp General Electric Circuit Breaker)
	319-2316-01	1					
	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			Stripping, Weather - Bulk (Order by the Foot)				
	895-0182	-	General Electric Circuit Breakers (1 Foot Required)				
	895-0182	-	Merlin Gerin 3 Pole Circuit Breakers (4 Feet Required)				



**Circuit Breaker
Non-UL Listed
DFHA, DFHB Spec B-F, DFHC Spec B-E, DFHD Spec A-C**



**Circuit Breaker
Non-UL Listed
DFHA, DFHB Spec B-F, DFHC Spec B-E, DFHD Spec A-C**

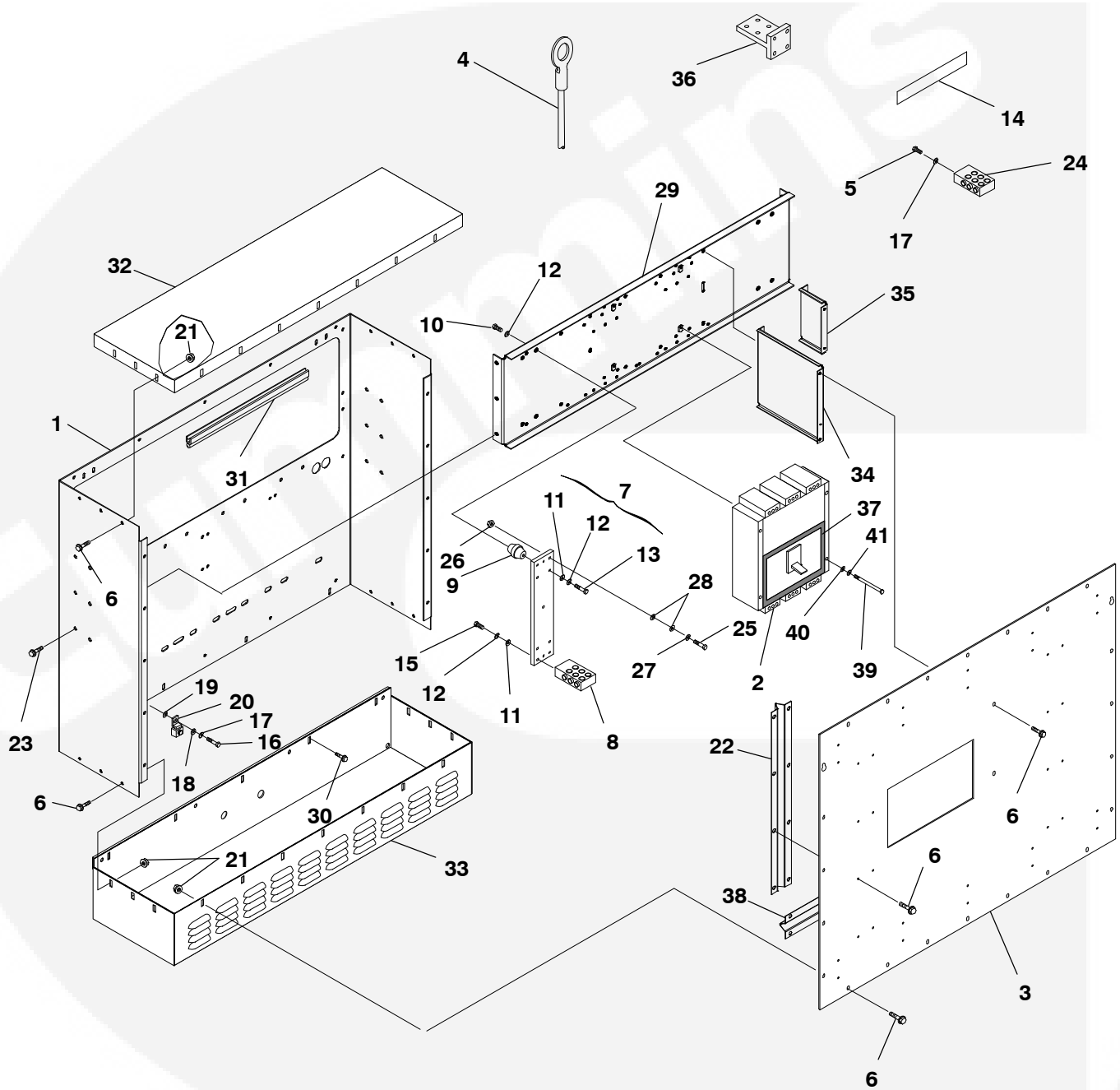
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3184	1	Wrapper, Circuit Breaker	4			Lead (Quantity Used As Required) (Without Markings)
2			Breaker, Circuit				
			Three Pole Breakers				6" Long
			Standard		226-4404-04	1	.375" Stripped Terminal End to .375"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

* - Parts Included in 300-4480 Neutral Bar Assembly

Continued...



**Circuit Breaker
Non-UL Listed
DFHA, DFHB Spec B-F, DFHC Spec B-E, DFHD Spec A-C**

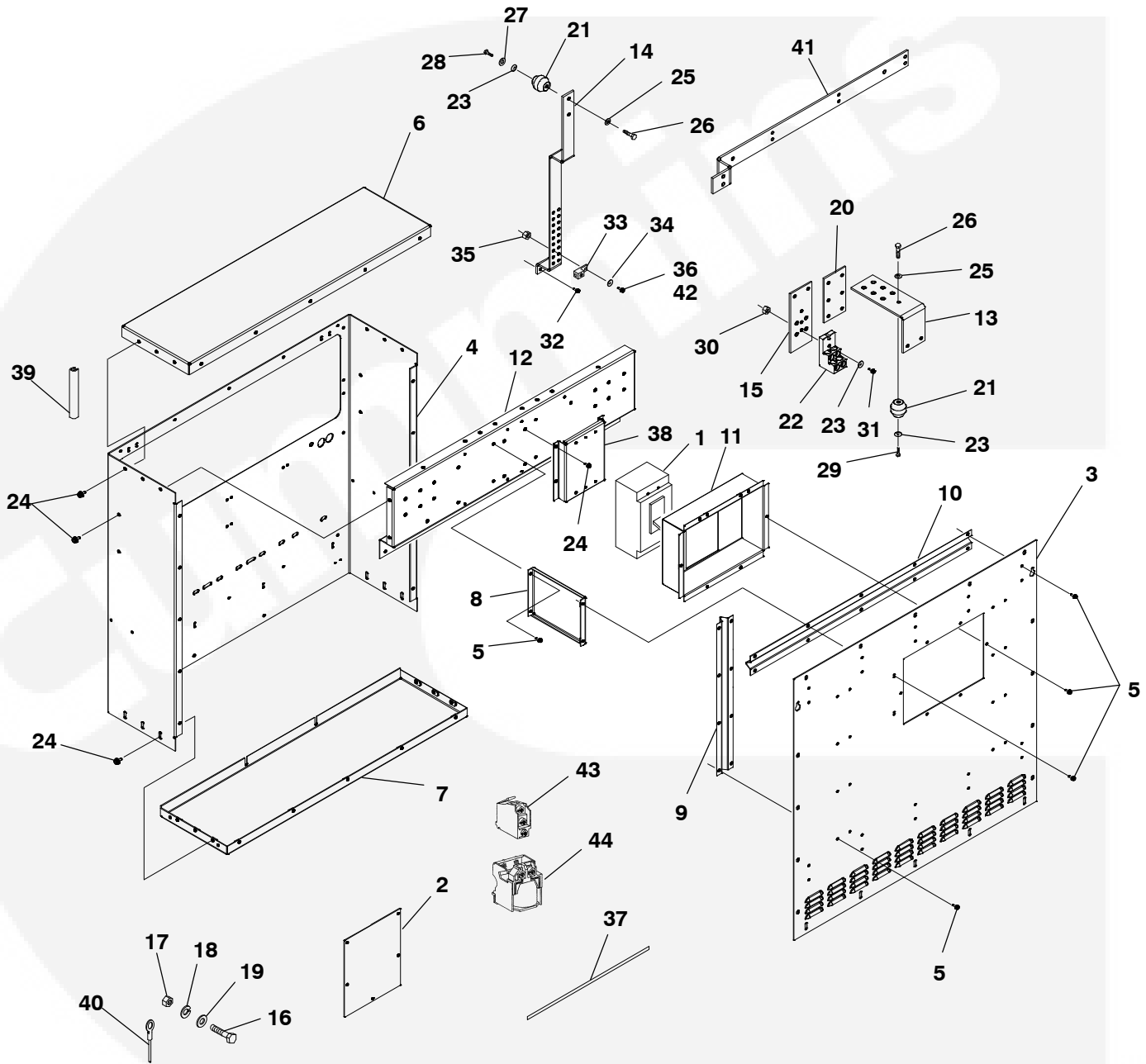


**Circuit Breaker
Non-UL Listed
DFHA, DFHB Spec B-F, DFHC Spec B-E, DFHD Spec A-C**

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)				
	319-3286	2	Three Pole Circuit Breakers				
	319-3286	1	Four Pole Circuit Breakers		895-0182	-	
23	821-6003-02	6	Screw, Hex Head (M8 x 20mm)	38	319-3288	2	Brace, Access Door (Horizontal)
24			Lug - 6X 600 MCM	39	800-2063	4	Screw, Cap - Hex Head (M8 x 50mm)
	332-3303-01	3	Three Pole Circuit Breakers	40	526-2100	4	Washer, Flat (M8)
	332-3303-01	4	Four Pole Circuit Breakers	41	850-2008	4	Washer, Lock - Spring (M8)
25	800-2116	24	Screw, Cap - Hex Head (M12 x 50mm)	* - Parts Included in 300-4480 Neutral Bar Assembly			
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)				

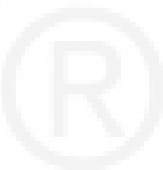


**Circuit Breaker
NSJ 600 Amp
DFHA, DFHB Begin Spec G, DFHC Begin Spec F, DFHD Begin Spec D**

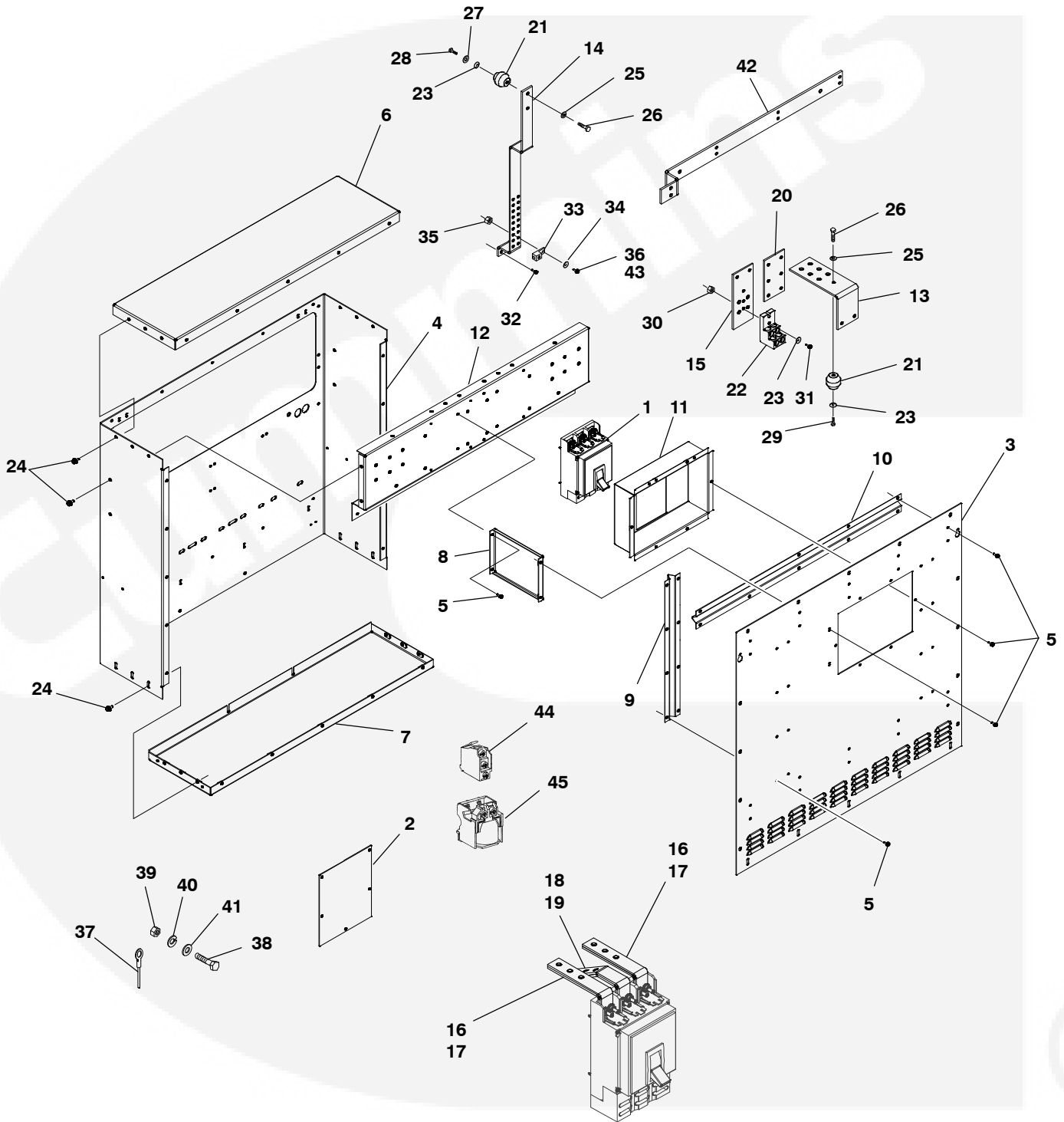


**Circuit Breaker
NSJ 600 Amp
DFHA, DFHB Begin Spec G, DFHC Begin Spec F, DFHD Begin Spec D**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	320-1960-01	1	Breaker, Circuit – 600 Amp 3 Pole (UL & IEC) (Includes Mounting Hardware)	29	800-0049	2	Screw, Cap – Hex Head (3/8-16 x .88)
2	405-7709-02	1	Cover, Access	30	862-0003	2	Nut, Hex (3/8)
3			Cover, Circuit Breaker	31	800-0053	2	Screw, Cap – Hex Head (3/8-16 x 1.75)
	319-5098-03	1	Left Side Installation	32	815-0261	2	Screw, Hex Washer Head – Thread Forming (1/4-20 x .50)
	319-5098-04	1	Right Side Installation				
4	319-5062-02	1	Box, Circuit Breaker	33	332-3039	3	Lug, Solderless
5	821-6002-04	69	Screw, Hex Head (M6 x 1 x 20)	34	851-0048-01	3	Washer, Belleville (5/16)
6	319-5087-02	1	Cover, Circuit Breaker	35	862-0015	3	Nut, Hex (5/16)
7	319-5088-02	1	Cover, Circuit Breaker	36	800-0028	1	Screw, Cap – Hex Head (5/16-18 x 1")
8	319-5102-04	1	Stiffener, Cover	37	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers and disconnect switches) (Quantity Used As Required)
9	319-3288	2	Brace, Access Door				
10	319-3286	2	Brace, Access Door	38	319-5128-02	1	Bracket, Circuit Breaker
11	319-5078-06	1	Cup, Switch	39	508-1109	-	Edging – Bulk (Order by the Foot – 3 Feet Required)
12	319-5123-02	1	Bracket, Circuit Breaker	40			Lead (Quantity Used As Required)
13	337-3623	1	Bus, Bar – Neutral		226-4894-01	1	34"
14	337-3632	1	Bus, Bar – Ground		226-4894-02	1	18"
15	337-3631	1	Bus, Bar – Neutral		226-4894-03	1	36"
16	800-2114	5	Screw, Cap – Hex Head (M12 x 1.75 x 40)		226-4894-04	1	20"
17	860-2010	5	Nut, Hex (M12)	41	337-3736	1	Bus, Bar – Ground
18	850-2012	5	Washer, Lock – Split (M12)	42	800-0030	2	Screw, Cap – Hex Head (5/16-18 x 1-1/4)
19	526-2140	10	Washer, Flat (M12)				Accessories, Circuit Breaker:
20	337-3625	1	Bus, Bar – Jumper	43	320-1981-01	2	Switch – Used as a Trip
21	332-2512	8	Standoff, Insulator	44	320-1981-03	1	Alarm or Auxiliary Contact
22	332-1557	1	Lug				24 Volt Shunt Trip
23	851-0048-02	10	Washer, Belleville (3/8)				
24	821-6003-01	42	Screw, Hex Head (M8 x 1.25 x 16)				
25	850-0050	8	Washer, Lock – Split (3/8)				
26	800-0048	8	Screw, Cap – Hex Head (3/8-16 x .75)				
27	526-0423	2	Washer, Flat				
28	800-0050	6	Screw, Cap – Hex Head (3/8-16 x 1")				



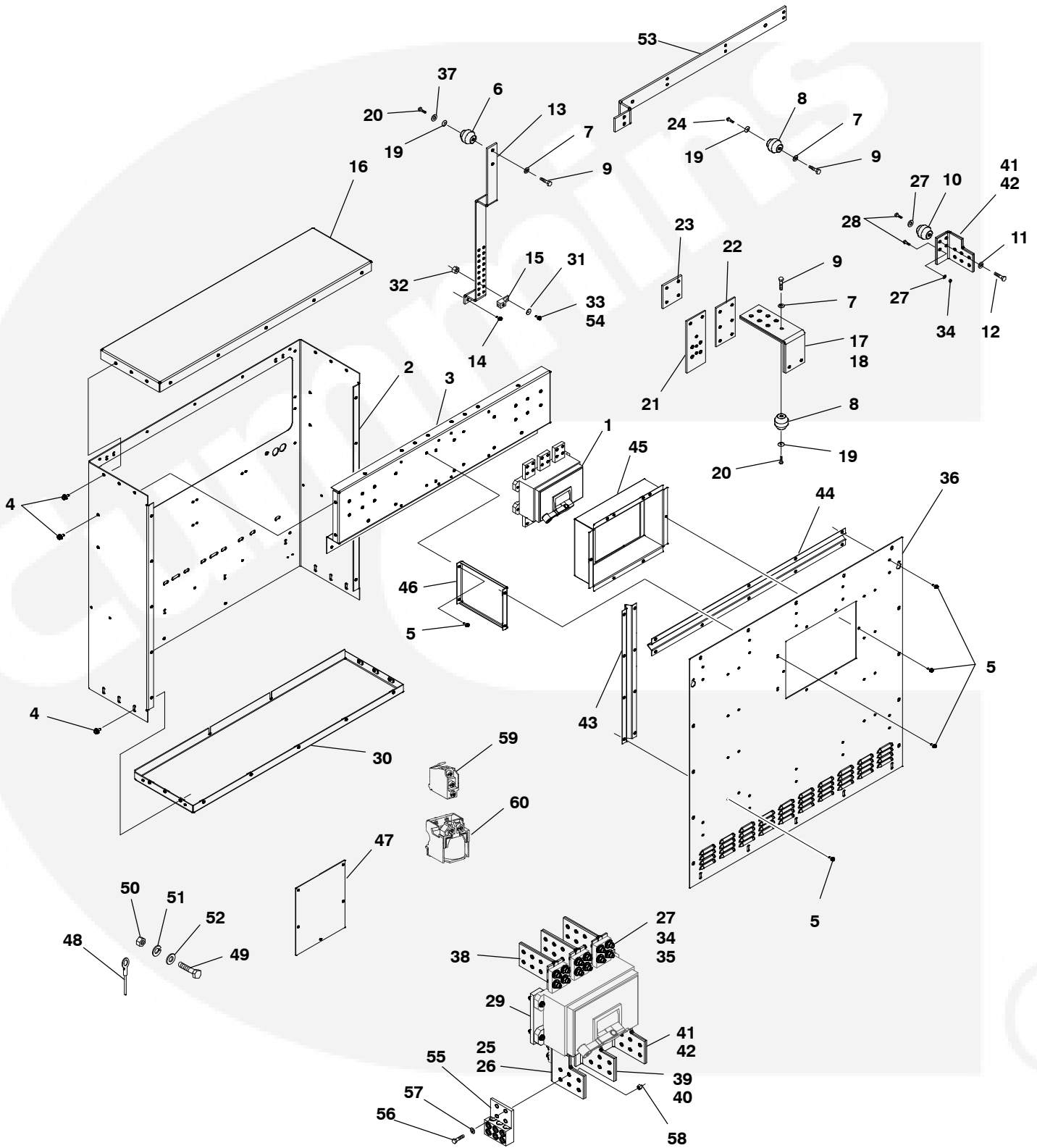
Circuit Breaker
P-Frame 800–1200 Amp
DFHA, DFHB Begin Spec G, DFHC Begin Spec F, DFHD Begin Spec D



Circuit Breaker
P-Frame 800–1200 Amp
DFHA, DFHB Begin Spec G, DFHC Begin Spec F, DFHD Begin Spec D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit – 3 Pole (UL & IEC) (Includes Mounting Hardware)	27	526–0423	2	Washer, Flat
	320–2182	1	800 Amp	28	800–0050	6	Screw, Cap – Hex Head (3/8–16 x 1")
	320–2183	1	1200 Amp	29	800–0049	2	Screw, Cap – Hex Head (3/8–16 x .88)
2	405–7709–02	1	Cover, Access	30	862–0003	2	Nut, Hex (3/8)
3			Cover, Circuit Breaker	31	800–0053	2	Screw, Cap – Hex Head (3/8–16 x 1.75)
	319–5098–03	1	Left Side Installation	32	815–0261	2	Screw, Hex Washer Head – Thread Forming (1/4–20 x .50)
	319–5098–04	1	Right Side Installation				
4	319–5062–02	1	Box, Circuit Breaker	33	332–3039	5	Lug, Solderless
5	821–6002–04	69	Screw, Hex Head (M6 x 1 x 20)	34	851–0048–01	5	Washer, Belleville (5/16)
6	319–5087–02	1	Cover, Circuit Breaker	35	862–0015	5	Nut, Hex (5/16)
7	319–5088–02	1	Cover, Circuit Breaker	36	800–0028	3	Screw, Cap – Hex Head (5/16–18 x 1")
8	319–5102–04	1	Stiffener, Cover				Lead (Quantity Used As Required)
9	319–3288	2	Brace, Access Door	37			
10	319–3286	2	Brace, Access Door				
11	319–5078–05	1	Cup, Switch				
12	319–5123–02	1	Bracket, Circuit Breaker				
13	337–3623	1	Bus, Bar – Neutral		226–4894–01	1	34"
14	337–3632	1	Bus, Bar – Ground		226–4894–02	1	18"
15	337–3631	1	Bus, Bar – Neutral	38	800–2114	A/R	Screw, Cap – Hex Head (M12 x 1.75 x 40)
16	337–3629–01	2	Bus, Bar – Breaker				
17	337–3629–02	2	Bus, Bar – Breaker	39	860–2010	A/R	Nut, Hex (M12)
18	337–3628–01	1	Bus, Bar – Breaker	40	850–2012	A/R	Washer, Lock – Split (M12)
19	337–3628–02	1	Bus, Bar – Breaker	41	526–2140	A/R	Washer, Flat (M12)
20	337–3625	1	Bus, Bar – Jumper	42	337–3736	1	Bus, Bar – Ground
21	332–2512	8	Standoff, Insulator	43	800–0030	2	Screw, Cap – Hex Head (5/16–18 x 1-1/4)
22	332–1557	1	Lug				
23	851–0048–02	10	Washer, Belleville (3/8)				Accessories, Circuit Breaker:
24	821–6003–01	38	Screw, Hex Head (M8 x 1.25 x 16)	44	320–2196–01	2	Switch – Used as a Trip Alarm or Auxiliary Contact
25	850–0050	8	Washer, Lock – Split (3/8)	45	320–2196–02	1	24 Volt Shunt Trip
26	800–0048	8	Screw, Cap – Hex Head (3/8–16 x .75)				

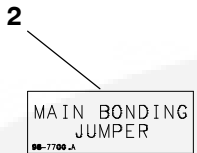
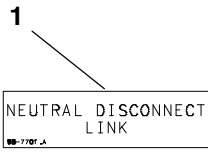
Circuit Breaker
R-Frame 1600–2500 Amp
DFHA, DFHB Begin Spec G, DFHC Begin Spec F, DFHD Begin Spec D



Circuit Breaker
R-Frame 1600–2500 Amp
DFHA, DFHB Begin Spec G, DFHC Begin Spec F, DFHD Begin Spec D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit – 3 Pole (UL & IEC) (Includes Mounting Hardware)	31	851–0048–01	7	Washer, Belleville (5/16)
	320–2164–03	1	1600 Amp	32	862–0015	7	Nut, Hex (5/16)
	320–2164–02	1	2000 Amp	33	800–0028	5	Screw, Cap – Hex Head (5/16–18 x 1")
	320–2164–01	1	2500 Amp	34	862–0005	27	Nut, Hex (1/2)
2	319–5062–02	1	Box, Circuit Breaker	35	800–0094	27	Screw, Cap – Hex Head (1/2–13 x 2)
3	319–5065–02	1	Bracket, Circuit Breaker	36			Cover, Circuit Breaker
4	821–6003–01	38	Screw, Hex Head (M8 x 1.25 x 16)		319–5098–03	1	Left Side Installation
					319–5098–04	1	Right Side Installation
5	821–6002–04	69	Screw, Hex Head (M6 x 1 x 20)	37	526–0423	2	Washer, Flat
6	332–2744–07	2	Standoff, Insulator	38	337–3618	6	Bus, Bar – Breaker
7	850–0050	11	Washer, Lock – Split (3/8)	39	337–3619–01	1	Bus, Bar – Breaker
8	332–2512	5	Standoff, Insulator	40	337–3619–02	1	Bus, Bar – Breaker
9	800–0048	7	Screw, Cap – Hex Head (3/8–16 x .75)	41			Bus, Bar – Breaker
					337–3620–01	1	Left Side Insulation
10	332–2743–07	1	Standoff, Insulator		337–3620–01	2	Right Side Insulation
11	850–0060	1	Washer, Lock – Split (1/2)	42			Bus, Bar – Breaker
12	800–0090	1	Screw, Cap – Hex Head (1/2–13 x 1.00)		337–3621–01	1	Left Side Insulation
					337–3621–01	2	Right Side Insulation
13	337–3626	1	Bus, Bar – Ground	43	319–3288	2	Brace, Access Door
14	815–0261	2	Screw, Hex Washer Head – Thread Forming (1/4–20 x .50)	44	319–3286	2	Brace, Access Door
				45	319–5078–04	1	Cup, Switch
				46	319–5102–03	1	Stiffener, Cover
15	332–3039	7	Lug, Solderless	47	405–7709–02	1	Cover, Access
16	319–5087–02	1	Cover, Circuit Breaker – Top	48			Lead (Quantity Used As Required)
17	337–3623	1	Bus, Bar – Neutral		226–4894–02	1	18"
18	337–3624	1	Bus, Bar – Neutral		226–4498–03	1	30"
19	851–0048–02	7	Washer, Belleville (3/8)	49	800–2114	A/R	Screw, Cap – Hex Head (M12 x 1.75 x 40)
20	800–0050	3	Screw, Cap – Hex Head (3/8–16 x 1")	50	860–2010	A/R	Nut, Hex (M12)
21	337–3631	2	Bus, Bar – Neutral	51	850–2012	A/R	Washer, Lock – Split (M12)
22	337–3625	1	Bus, Bar – Jumper	52	526–2140	A/R	Washer, Flat (M12)
23	337–3627	1	Bus, Bar – Neutral	53	337–3736	1	Bus, Bar – Ground
24	800–0052	4	Screw, Cap – Hex Head (3/8–16 x 1.5)	54	800–0030	2	Screw, Cap – Hex Head (5/16–18 x 1-1/4)
25			Bus, Bar – Breaker	55	332–3949	8	Lug, Cable – Solderless
	337–3620–02	2	Left Side Insulation	56	800–0054	16	Screw, Cap – Hex Head (3/8–16 x 2.00)
	337–3620–02	1	Right Side Insulation	57	851–0022	16	Washer, Spring (3/8)
26			Bus, Bar – Breaker	58	862–0003	16	Nut, Hex (3/8)
	337–3621–02	2	Left Side Insulation				Accessories, Circuit Breaker:
	337–3621–02	1	Right Side Insulation				Switch – Used as a Trip
27	851–0048–03	28	Washer, Belleville (1/2)				Alarm or Auxiliary Contact
28	800–0093	4	Screw, Cap – Hex Head (1/2–13 x 1.75)	59	320–2196–01	2	24 Volt Shunt Trip
29	232–4131	2	Spacer, Mounting Foot	60	320–2196–02	1	
30	319–5088–02	1	Cover, Circuit Breaker – Bottom				

Labels – Circuit Breaker



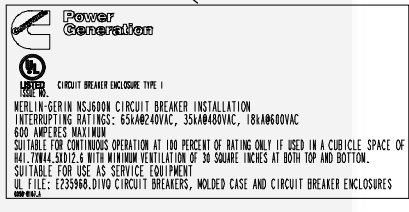
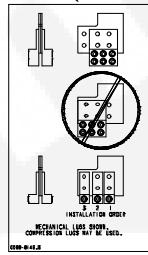
LEFT SIDE AS VIEWED FROM CONDUIT END

RIGHT SIDE AS VIEWED FROM CONDUIT END

CONDUIT AND WIRE SIZE BASED ON TOP OF ELECTRICAL CONTAINER'S CONSIDERATION

WIRE GAUGE	WIRE SIZE	CONDUIT SIZE	CONDUIT SIZE
2500A	6	800 MCM	6
2000A	6	800 MCM	6
1800A	5	300 MCM	5
1200A	3	300 MCM	3
1000A	3	400 MCM	3
800A	2	300 MCM	2
600A	2	300 MCM	2
400A	1	300 MCM	1
225A	1	4/0	1
150A	1	1/0	1

98-6865



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-7701	1	Label, Neutral Disconnect Link	8			Label, Information
2	098-7700	1	Label, Bonding Jumper	098-8167	1		NSJ – 600 Amp
3	098-6635	1	Label, Ground	098-8168	1		P-Frame – 800 Amp
4			Label, Marker (10 Characters Per Card) (Quantity Used As Required)	098-8169	1		P-Frame – 1200 Amp (150V Line to Neutral Maximum)
	098-5854-06	1	Marked "L"	098-8173	1		P-Frame – 1200 Amp (Alternate Source for Emergency Service)
	098-5854-07	1	Marked "1"				
	098-5854-08	1	Marked "2"	098-8174	1		R-Frame – 1600 Amp (Alternate Source for Emergency Service)
	098-5854-09	1	Marked "3"				
	098-5854-10	1	Marked "0"				
5	098-8144	1	Label, Information (Service Disconnect)	098-8175	1		R-Frame – 2000 Amp (Alternate Source for Emergency Service)
6	098-6865	1	Label, Conduit Location				
7	098-8149	1	Label, Information (Lug Installation)	098-8176	1		R-Frame – 2500 Amp (Alternate Source for Emergency Service)
				098-8170	1		R-Frame – 1600 Amp (150V Line to Neutral Maximum)
				098-8171	1		R-Frame – 2000 Amp (150V Line to Neutral Maximum)
				098-8172	1		R-Frame – 2500 Amp (150V Line to Neutral Maximum)

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