

Parts Catalog

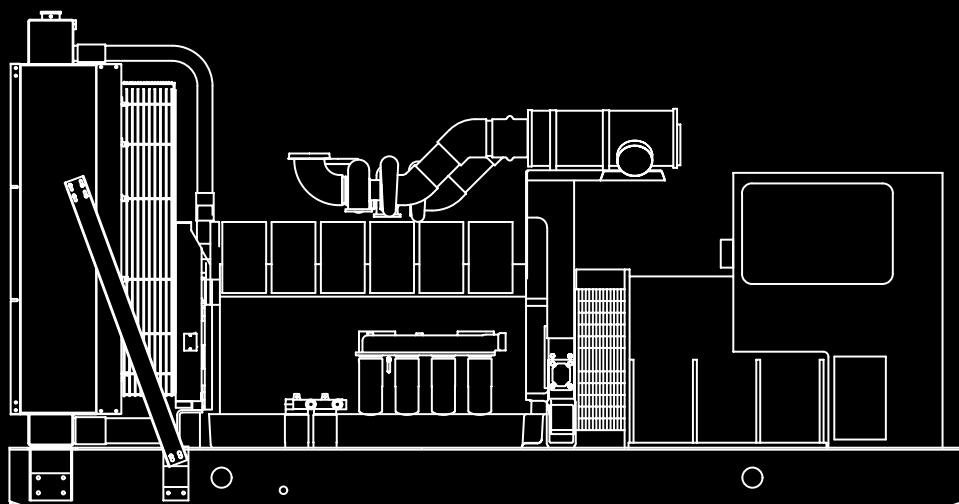
Models

DFEB (Spec J-S)

DFEC (Spec C-K)

DFED (Spec A-G)

DFFB (Spec J-L)



MODEL IDENTIFICATION

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

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

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

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

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



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



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



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

PRODUCT SAFETY PRECAUTIONS



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



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



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



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

Introduction

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

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

Replacement Engine

Onan/Cummins Generator Model	Cummins Engine Model
DFEB	KTA19–G2 Configuration No. D193056DX02
DFEC	KTA19–G3 Configuration No. D193088DX02
DFED	KTA19–G4 Configuration No. D193091DX02
DFFB	KTTA19–G2 Configuration No. D193079DX02

Replacement engines cannot be ordered from Onan. Order from your nearest Cummins distributor.

Generator Set Data Table

Model and Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
330DFEB/* 400DFEB/*	330,000 400,000	# #	50 60	12 12	1 or 3 1 or 3	24 VDC 24 VDC
400DFEC/* 450DFEC/*	400,000 450,000	# #	50 60	12 12	1 or 3 1 or 3	24 VDC 24 VDC
450DFED/* 500DFED/*	450,000 500,000	# #	50 60	12 12	1 or 3 1 or 3	24 VDC 24 VDC
450DFFB/* 500DFFB/*	450,000 500,000	# #	50 60	12 12	1 or 3 1 or 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 (A to B, B to C, etc.) with major manufacturing changes.

– Broad range reconnectable

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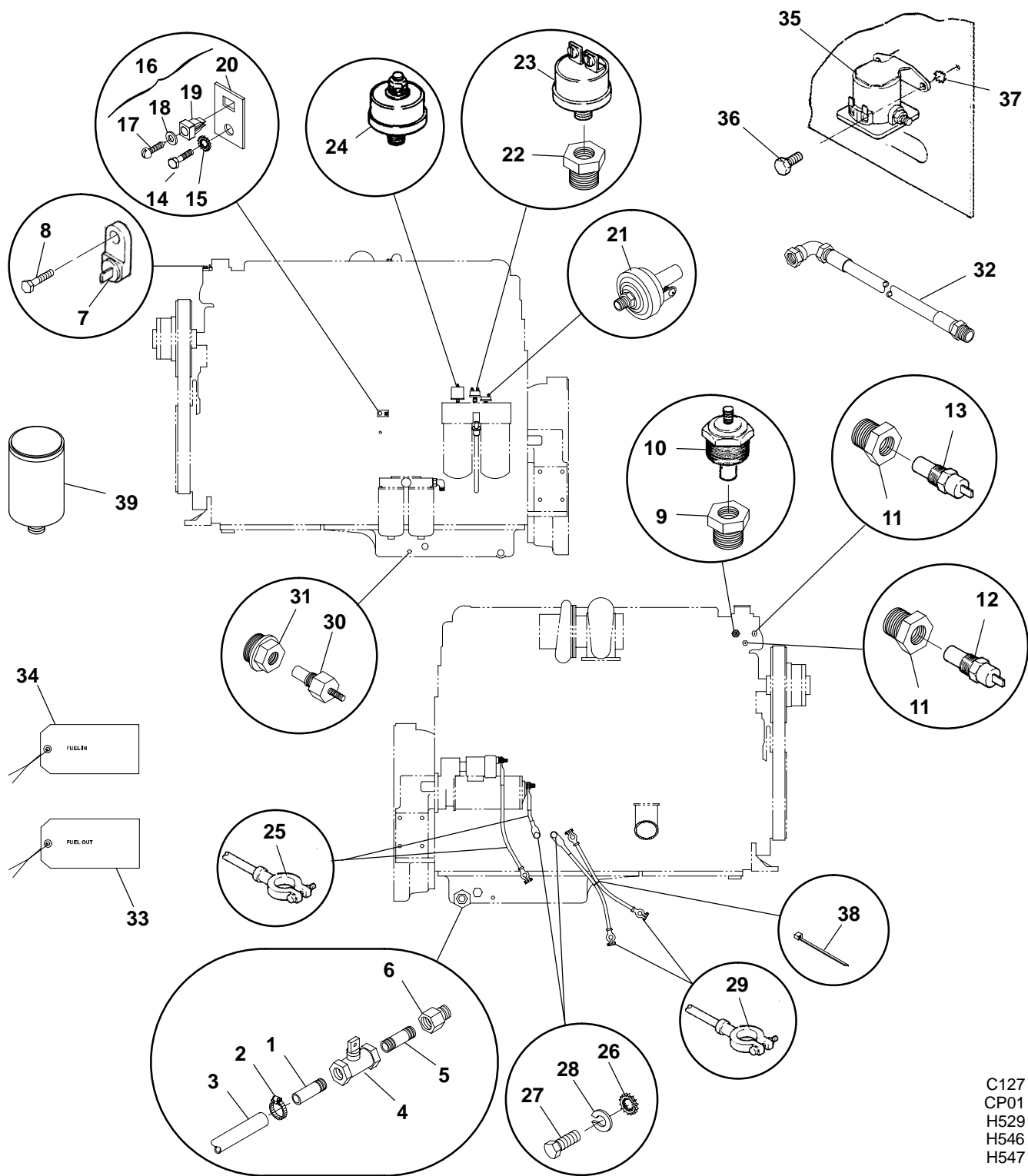
Some of the following abbreviations may be used throughout this Parts Catalog:

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

Paint and Thread Sealant

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Onan Green Enamel (Non-Metallic)				Cummins Beige Enamel
	525-0305	—	12 oz. Pressurized Spray Can		525-0551-02	—	12 oz. Pressurized Spray Can
	525-0306	—	Quart Can		525-0551-03	—	Quart Can
	525-0304	—	Gallon Can		525-0551-04	—	Gallon Can
					518-0601	—	Sealant, Thread (6 ml Tube)

External Engine Parts
Generator Sets With Detector Control
DFEB Spec J Through K, DFEC Spec C Through D, DFED Spec A, DFFB Begin Spec J

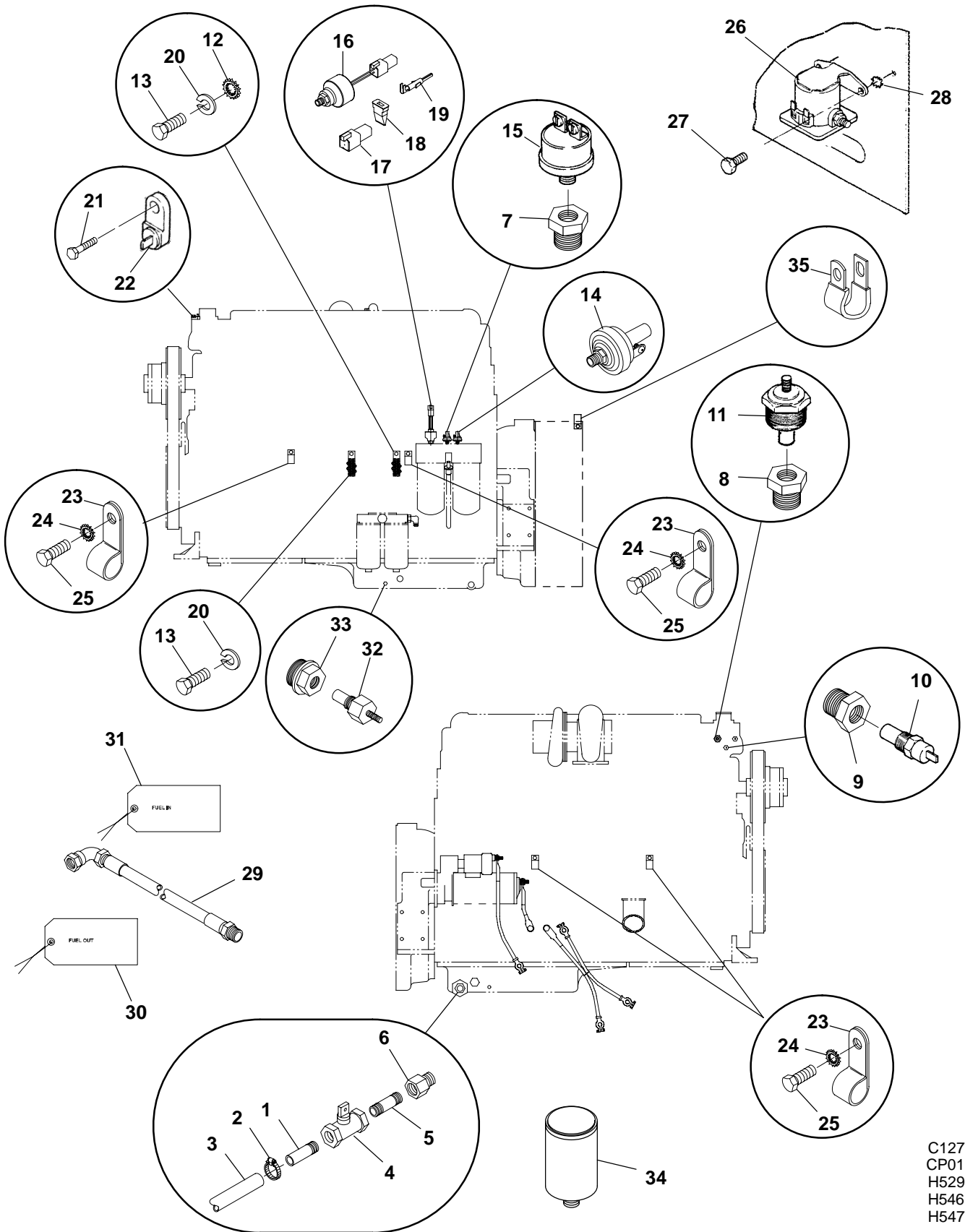


External Engine Parts
Generator Sets With Detector Control
DFEB Spec J Through K, DFEC Spec C Through D, DFED Spec A, DFFB Begin Spec J

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0324	1	Nipple, Half (3/4" x 2")	22	505-1503	1	Adapter, Pipe (1/8-27 x 1/8-27)
2	503-0189	1	Clamp, Hose	23	309-0641-03	1	Switch Oil Pressure (Closes at 14 lbs. Descending) (S1)
3	503-0249	-	Hose, Bulk (1" ID x 1-3/8" OD) (Order by the Foot - Two Feet Required)	24	193-0244-01	1	Sender, Oil Pressure (E1)
4	504-0171	1	Valve, Shutoff	25	416-0444	1	Cable, Battery 44" - Battery to Starter (With 1 Ring and and 1 Bolted End)
5	505-0102	1	Nipple, Pipe (3/4" x 1-3/8")		416-0632	1	14-1/2" - Starter and Engine Ground (With 2 Ring Terminal Ends)
6	505-1433	1	Adapter, Pipe	26	856-0013	2	Washer, Lock (EIT) (1/2")
7	309-0269	1	Switch, Temperature - Low Engine Coolant (S4)	27	800-0090	2	Screw, Cap - Hex Head (1/2-13 x 1")
8	800-0062	1	Screw, Cap - Hex Head (3/8-16 x 4")	28	850-0060	2	Washer, Lock - Spring (1/2")
9	505-0021	1	Bushing, Reducer (3/4" to 1/2")	29	416-0960	1	Cable, Battery 29" - Battery to Starter (With 1 Ring End and 1 Bolted End)
10	193-0375	1	Sender, Temperature - Water (E2)		416-0446	1	12-1/2" - Jumper (With Red Colored Battery Boot)
11	505-0019	2	Bushing, Reducer (1/2" to 3/8")	30	193-0388	1	Sender, Oil Temperature (200 Deg) (E4)
12	309-0436	1	Thermostat - High Engine Coolant Temperature (Open at 196 Deg F, Closes at 216 Deg F) (Includes #8-32 Pan Head Screw and #8 Lock Washer) (S6 - Pre-Alarm)	31	505-0151	1	Bushing, Reducer (1/2" to 1/8")
13	309-0437	1	Switch, Thermostat - High Engine Coolant Temperature (Opens at 202 Deg F - Closes at 222 Deg F) (S2)	32	501-0084	1	Line, Fuel - Flexible Fuel Supply (36")
14	821-5004-02	1	Screw, Cap - Hex Head (3/8-16 x 3/4")		501-0216	1	Fuel Return (42")
15	856-0010	2	Washer, Lock - EIT (3/8")	33	098-3171	1	Tag, Fuel Out
16	332-1292	1	Terminal Assembly (Includes Parts Marked *) (T26)	34	098-3172	1	Tag, Fuel In
17	809-0036	1	* Screw, Sheet Metal - Round Head (#8 x 7/8")	35	307-2167	1	Relay, Start Solenoid
18	508-0015	1	* Washer, Fiber	36	821-0010	2	Screw, Lock - Hex Washer Head (1/4-20 x 1/2")
19	870-0263	1	* Nut, Insulation (#8)	37	856-0006	1	Washer, Lock - EIT (1/4")
20	332-1281	1	* Bracket, Terminal	38	332-0941	A/R	Tie, Cable
21	309-0641-07	1	Switch, Oil Pressure (Closes at 20 lbs. Descending) (S5 - Pre-Alarm)	39	149-2278	2	Separator, Fuel/Water

* Parts Included in 332-1292 Terminal Assembly.

**External Engine Parts
Generator Sets With Detector Control
DFEB Begin Spec L, DFEC Begin Spec E, DFED Begin Spec B**



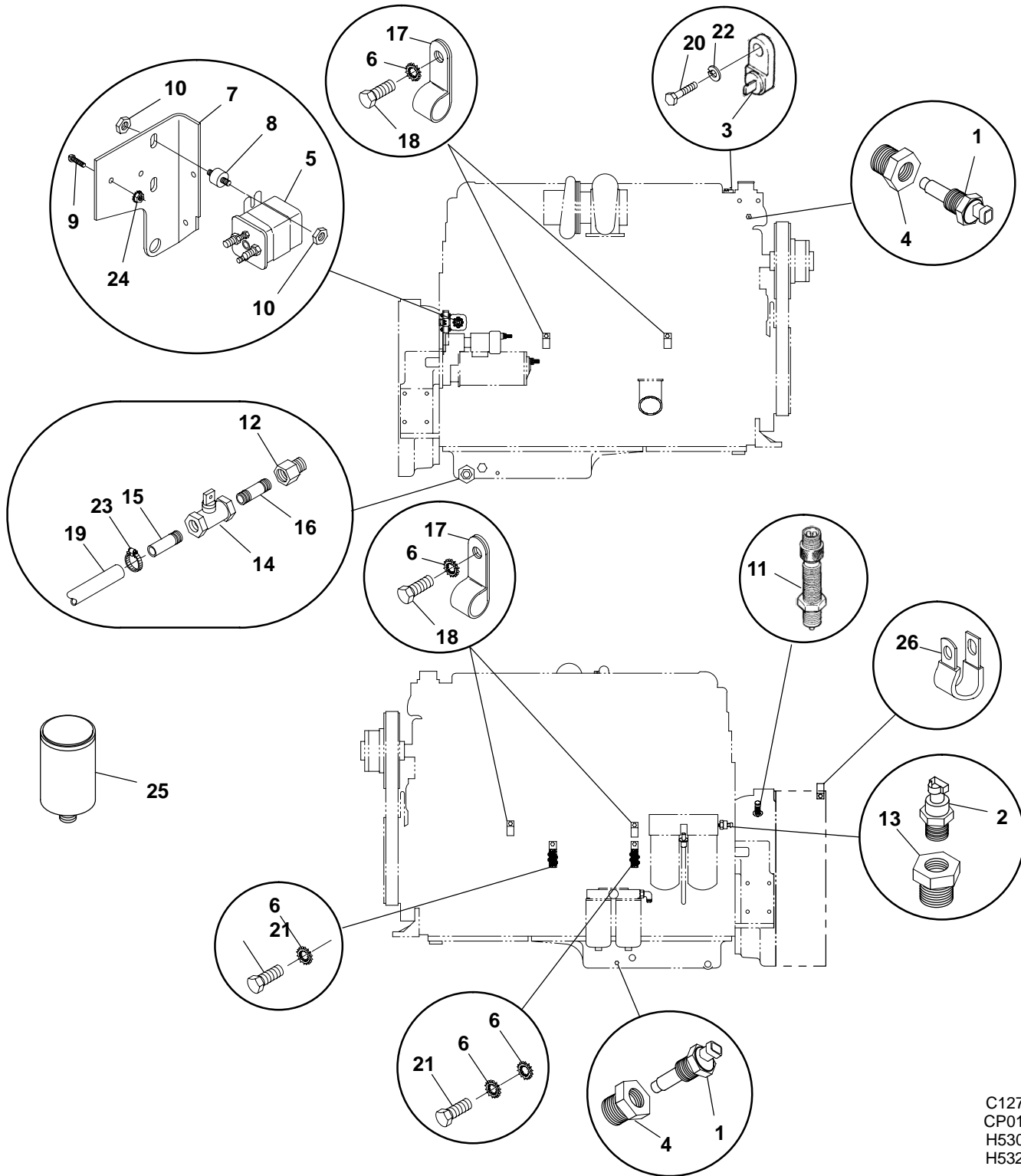
C127
CP01
H529
H546
H547

External Engine Parts
Generator Sets With Detector Control
DFEB Begin Spec L, DFEC Begin Spec E, DFED Begin Spec B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0324	1	Nipple, Half (3/4" x 2")	21	309-0269	1	Switch, Temperature – Low
2	503-0189	1	Clamp, Hose				Engine Coolant (S4)
3	503-0249	–	Hose, Bulk (1" ID x 1-3/8" OD) (Order by the Foot – Two Feet Required)	22	800-0062	1	Screw, Cap – Hex Head (3/8-16 x 4")
4	504-0171	1	Valve, Shutoff	23	518-0633	4	Clip, "J" (1-1/2" ID) DFEB Spec R
5	505-0102	1	Nipple, Pipe (3/4" x 1-3/8")				DFEC Spec J
6	505-1433	1	Adapter, Pipe				DFED Spec F
7	505-1503	1	Adapter, Pipe		518-0548-02	4	Clamp, Retainer (1-1/4" ID)
8	505-0021	1	Bushing, Reducer (3/4" to 1/2")				DFEB Begin Spec S
9	505-0019	2	Bushing, Reducer (1/2" to 3/8")				DFEC Begin Spec K
10			Thermostat, High Coolant Temperature (Opens at 202 Deg F, Closes at 222 Deg F) (S2)	24	856-0010	4	Washer, Lock – EIT (3/8") DFEB Begin Spec R DFEC Begin Spec J
	309-0576	1	DFEB Spec L Through R DFEC Spec E Through J DFED Spec B Through F	25	801-0048	4	Screw, Cap – Hex Head (3/8-24 x 3/4") DFEB Begin Spec R DFEC Begin Spec J
	309-0673	1	DFEB Begin Spec S DFEC Begin Spec K DFED Begin Spec G				DFED Begin Spec F
11	193-0447-01	1	Sender, Water Temperature (Opens at 190 Deg F, Closes at 214 Deg F) (S6)	26	307-2167	1	Relay, Start
12	856-0010	1	Washer, Lock – EIT (3/8")	27	821-0010	2	Screw, Lock – Hex Washer Head (1/4-20 x 1/2")
13	801-0048	2	Screw, Cap – Hex Head (3/8-24 x 3/4")	28	856-0006	1	Washer, Lock – EIT (1/4")
14	309-0641-07	1	Switch, Oil Pressure (Closes at 20 lbs. Descending) (S5 – Pre-Alarm)	29			Line, Fuel – Flexible
15	309-0641-03	1	Switch, Oil Pressure (Closes at 14 lbs. Descending) (S1)		501-0084	1	Fuel Supply (36")
16	193-0448	1	Sender, Oil Pressure (E1) (Includes Parts Marked *)		501-0216	1	Fuel Return (42")
17	323-1549	1	* Connector, Receptacle – 4 Place	30	098-3171	1	Tag, Fuel Out
18	323-1548	1	* Wedge, Receptacle	31	098-3172	1	Tag, Fuel In
19	323-1492	4	* Socket, Contact	32	193-0388	1	Sender, Oil Temperature (200 Deg) (E4)
20	850-0050	2	Washer, Lock – Spring (3/8")	33	505-0151	1	Bushing, Reducer (1/2" to 1/8")
				34	149-2278	2	Separator, Fuel/Water
				35	518-0548-60	1	Clamp, Retainer (1-1/4" ID) DFEB Begin Spec S
							DFEC Begin Spec K
							DFED Begin Spec G

* – Parts Included In 193-0448 Oil Pressure Sender

External Engine Parts Generator Sets With PowerCommand Control

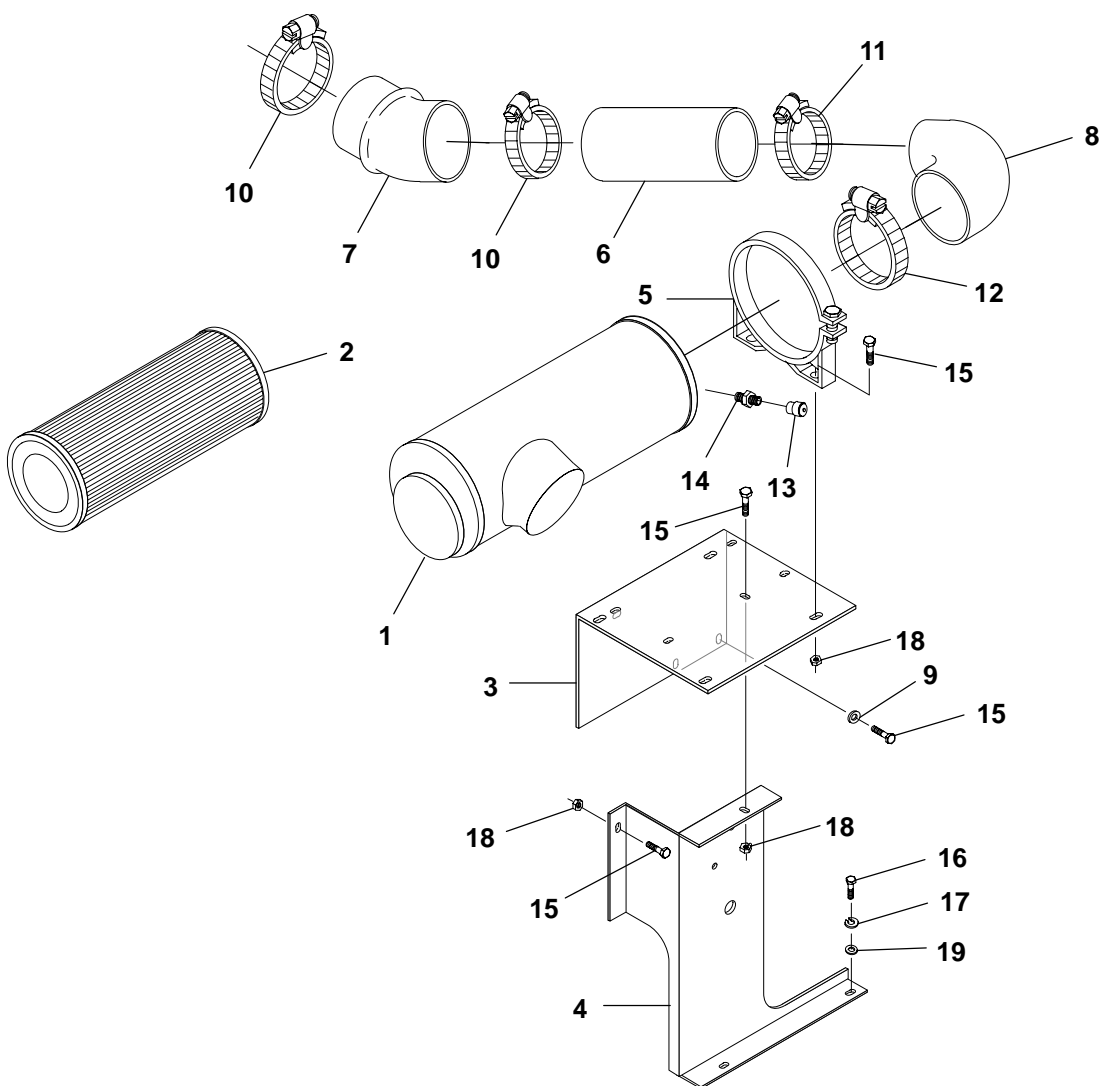


C127
CP01
H530
H532

External Engine Parts Generator Sets With PowerCommand Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0432	2	Sender, Oil Temperature (S2 Engine Block, E4 Oil Pan)	17	518-0633	4	Clip, J (1-1/2" ID) DFEB Spec R DFEC Spec J DFED Spec F
2	193-0444	1	Sender, Oil Pressure (S1)				
3	309-0269	1	Switch, Temperature – Low Engine Coolant (S4)		518-0548-02	4	Clamp, Retainer (1-1/4" ID) DFEB Begin Spec S DFEC Begin Spec K DFED Begin Spec G
4	505-0019	2	Bushing, Pipe – Reducer (1/2" to 3/8")				
5	307-2621-02	1	Solenoid, Pilot (K4)				
6			Washer, Lock – EIT (3/8")	18	801-0048	4	Screw, Cap – Hex Head (3/8-24 x 3/4") DFEB Begin Spec R DFEC Begin Spec J DFED Begin Spec F
	856-0010	3	DFEB Spec J Through P DFEC Spec C Through H DFED Spec A Through E DFFB				
	856-0010	7	DFEB Begin Spec R DFEC Begin Spec J DFED Begin Spec F	19	503-0249	–	Hose, Bulk (1" ID) (Order By the Foot – 2 Feet Required)
7	319-2236	1	Bracket, Mounting	20	800-0062	1	Screw, Cap – Hex Head (3/8-16 x 4")
8	402-0610	2	Isolator, Vibration	21	800-0270	2	Screw, Cap – Hex Head (3/8-24 x 5/8") DFEB Spec J Through P DFEC Spec C Through H DFED Spec A Through E DFFB
9	812-0067	2	Screw, Machine – Round Head (#6-32 x 7/8")				
10	870-0212	4	Nut, Locking (1/4-20)				
11	151-0411	1	Pickup, Magnetic				
12	505-1433	1	Adapter, Pipe (Includes O-Ring) (3/4-14 to 1-1/16-12)	22	850-0050	1	Washer, Lock – Spring (3/8")
13	505-0007	1	Reducer, Bushing	23	503-0189	1	Clamp, Hose
14	504-0171	1	Valve, Shutoff	24	870-0183	2	Nut, Hex – W/ET (#6-32)
15	505-0324	1	Nipple, Pipe – Half (3/4" x 2")	25	149-2278	2	Separator, Fuel/Water
16	505-0102	1	Nipple, Pipe (3/4" x 1-3/8")	26	518-0548-60	1	Clamp, Retainer (1-1/4" ID) DFEB Begin Spec S DFEC Begin Spec K DFED Begin Spec G

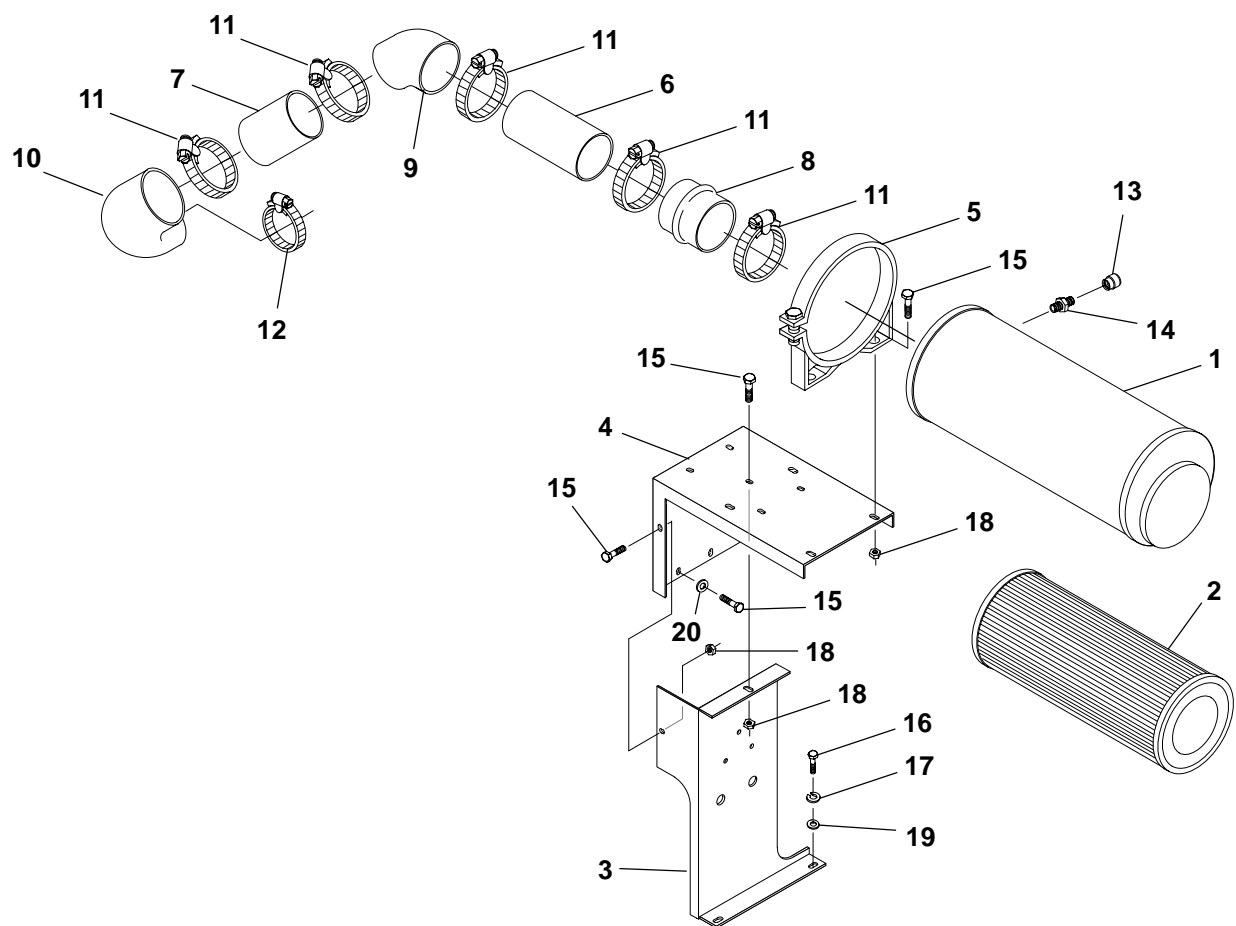
Air Cleaner Standard DFEB, DFEC, DFED



D041

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2463	1	Cleaner Assembly, Air (Includes Element – Ref No. 2)	10	503-1870-11	2	Clamp, Hose (6" ID)
2	140-2464	1	Element, Air Cleaner	11	503-1870-12	1	Clamp, Hose (6-1/2" ID)
3	140-2460	1	Bracket, Mounting	12	503-1870-14	1	Clamp, Hose (7-1/2" ID)
4	140-2459	1	Bracket, Mounting	13	140-1548	1	Indicator, Service
5	140-1973	2	Band, Mounting	14	502-0175	1	Adapter, Pipe (1/8")
6	140-2516	1	Tube, Air Inlet (6" OD x 11")	15	821-5004-02	8	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")
7	503-1702	1	Elbow, Reducer (6" ID to 5-1/2" ID – 36 Deg)	16	800-0091	2	Screw, Cap – Hex Head (1/2-13 x 1-1/4")
8	503-1703	1	Elbow, Reducer (7" ID to 6" ID – 90 Deg)	17	850-0060	2	Washer, Lock – Spring (1/2")
9	526-0030	2	Washer, Flat (13/32")	18	870-0550-09	6	Nut, Hex – Locking (3/8-16)
				19	526-0219	2	Washer, Flat (17/32")

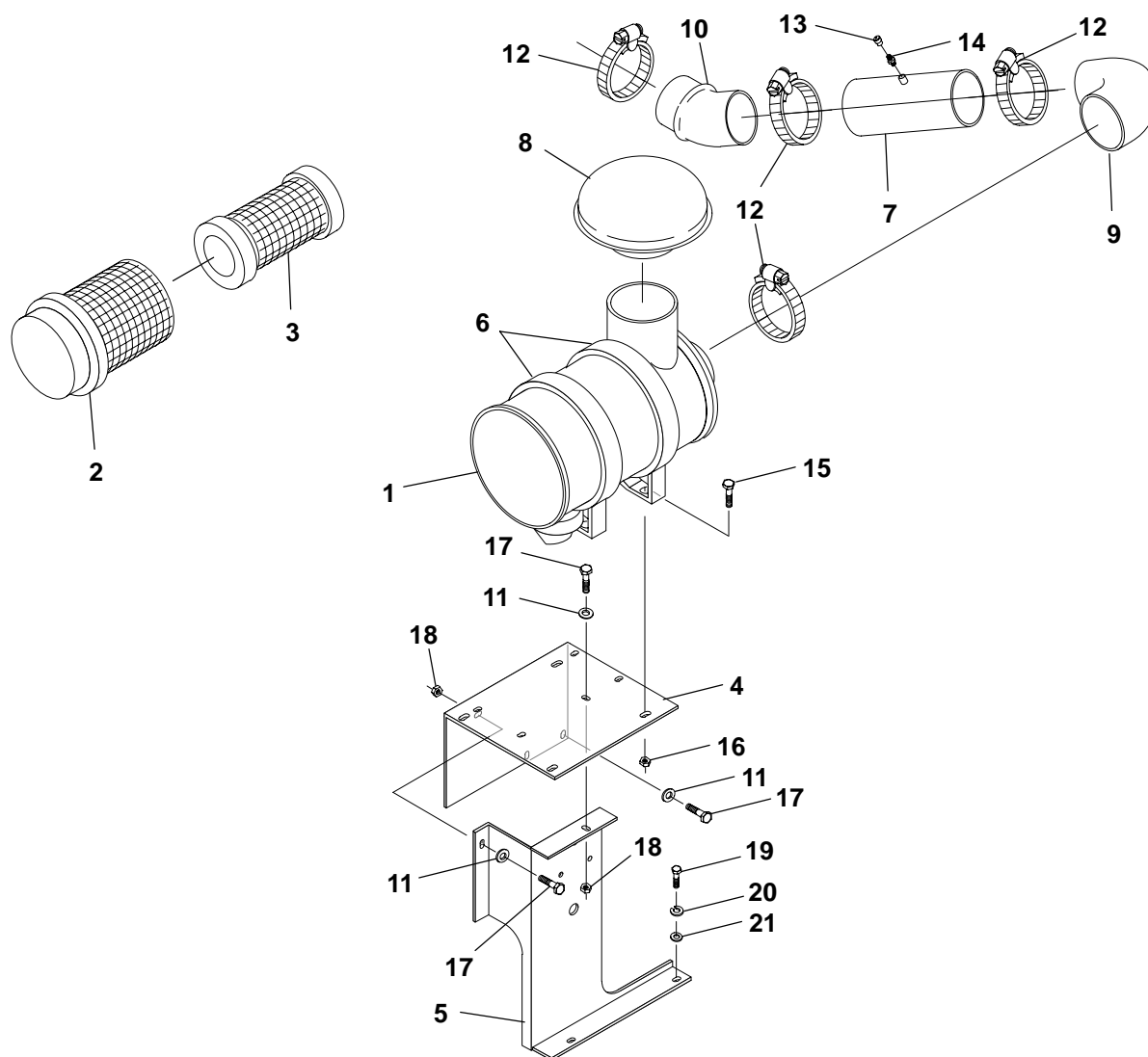
Air Cleaner Standard DFFB



D041

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2463	1	Cleaner Assembly, Air (Includes Element – Ref No. 2)	11	503-1870-14	5	Clamp, Hose
2	140-2464	1	Element, Air Cleaner	12	503-1870-11	1	Clamp, Hose
3	140-2462	1	Bracket, Mounting	13	140-1548	1	Indicator, Service
4	140-2461	1	Bracket, Mounting	14	502-0175	1	Adapter, Pipe (1/8")
5	140-1973	2	Band, Mounting	15	821-0029	8	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")
6	140-2469	1	Tube, Air Inlet (7" OD x 14")	16	800-0091	2	Screw, Cap – Hex Head (1/2-13 x 1-1/4")
7	140-2519	1	Tube, Air Inlet (7" OD x 9")	17	850-0060	2	Washer, Lock – Spring (1/2")
8	503-1705	1	Hose, Hump (7" ID)	18	870-0281	6	Nut, Hex – Locking (3/8-16)
9	503-1484	1	Elbow, 45 Deg (7" ID)	19	526-0219	2	Washer, Flat (17/32")
10	503-2102	1	Elbow, Reducer – 90 Deg (7" ID to 5-1/2" ID)	20	526-0030	2	Washer, Flat (13/32")

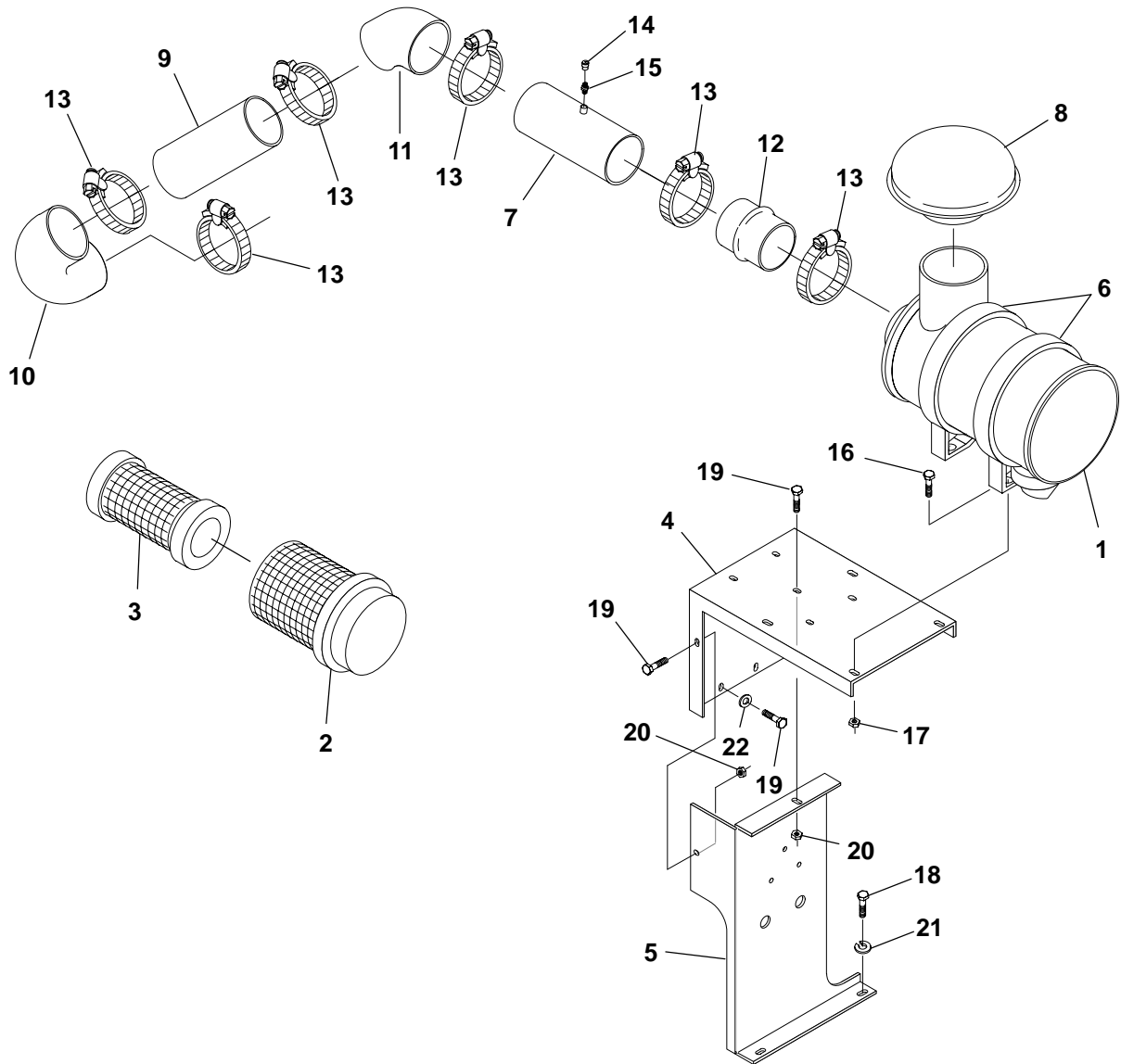
Air Cleaner Heavy Duty DFEB, DFEC, DFED



D036

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2301	1	Cleaner Assembly, Air (Includes Primary and Safety Elements – Ref. No 2 and 3)	11	526-0030	2	Washer, Flat (13/32")
2	140-2465	1	Element, Air Cleaner – Primary (Outer)	12	503-1870-11	2	Clamp, Hose
3	140-2466	1	Element, Air Cleaner – Safety (Inner)	13	140-1548	1	Indicator, Service
4	140-2460	1	Bracket, Mounting	14	140-1260	1	Fitting, Safety Filter
5	140-2459	1	Bracket, Mounting	15	821-0033	4	Screw, Self-Locking – Hex Washer Head (7/16-14 x 3/4")
6	140-2052	2	Band, Mounting	16	870-0437	4	Nut, Self-Locking (7/16")
7	140-2474	1	Tube, Air Inlet (6" OD x 11")	17	821-0029	4	Screw, Locking – Hex Washer Head (3/8-16 x 3/4")
8	140-1545	1	Hood, Air Inlet	18	870-0281	2	Nut, Locking (3/8-16)
9	503-1461	1	Elbow, Hose (90 Deg)	19	800-0091	2	Screw, Cap – Hex Head (1/2-13 x 1-1/4")
10	503-1702	1	Elbow, Reducer (6" ID to 5-1/2" ID)	20	850-0060	2	Washer, Lock – Spring (1/2")
				21	526-0219	2	Washer, Flat (17/32")

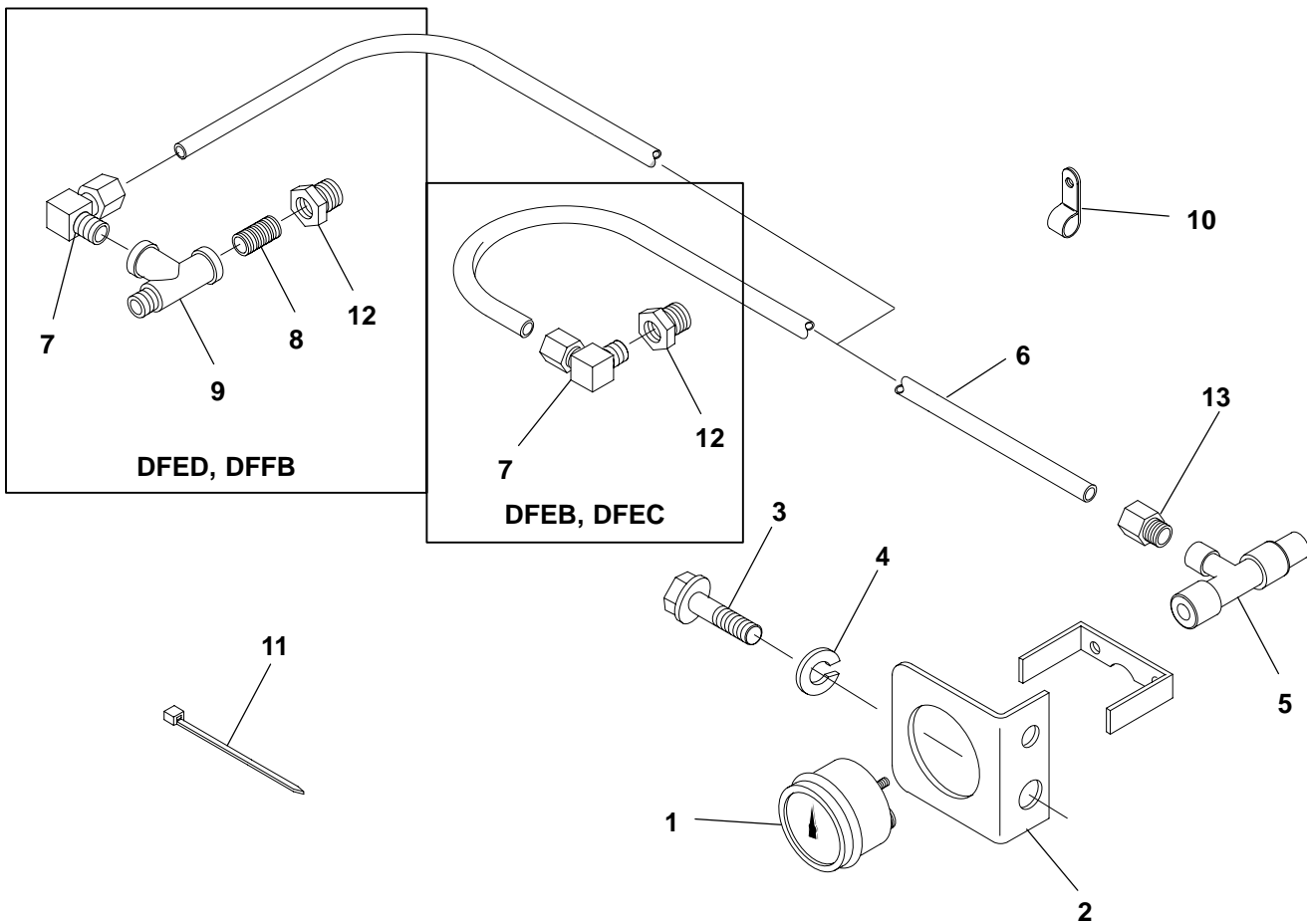
Air Cleaner Heavy Duty DFFB



D036

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2301	1	Cleaner Assembly, Air (Includes Primary and Safety Elements – Ref. No 2 and 3)	12	503-1590-12	1	Hose, Hump
2	140-2465	1	Element, Air Cleaner – Primary (Outer)	13	503-1870-11	2	Clamp, Hose
3	140-2466	1	Element, Air Cleaner – Safety (Inner)	14	140-1548	1	Indicator, Service
4	140-2690	1	Bracket, Mounting	15	140-1260	1	Fitting, Service Indicator
5	140-2689	1	Bracket, Mounting	16	821-0033	4	Screw, Self-Locking – Hex Washer Head (7/16-14 x 3/4")
6	140-2052	2	Band, Mounting	17	870-0437	4	Nut, Locking – Hex (7/16-14)
7	140-2688	1	Tube, Air Inlet (6" OD x 12")	18	800-0091	2	Screw, Cap – Hex Head (1/2-13 x 1-1/4")
8	140-1545	1	Hood, Air Inlet	19	821-0029	8	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")
9	140-2686	1	Tube, Air Inlet (6" OD x 13")	20	870-0281	2	Nut, Locking – Hex (3/8-16)
10	140-2692	1	Elbow, Reducer – 90 Deg (6" ID to 5-1/2" ID)	21	850-0060	2	Washer, Lock – Spring (1/2")
11	503-1723	1	Elbow, 45 Deg (6" ID)	22	526-0030	2	Washer, Flat (13/32")

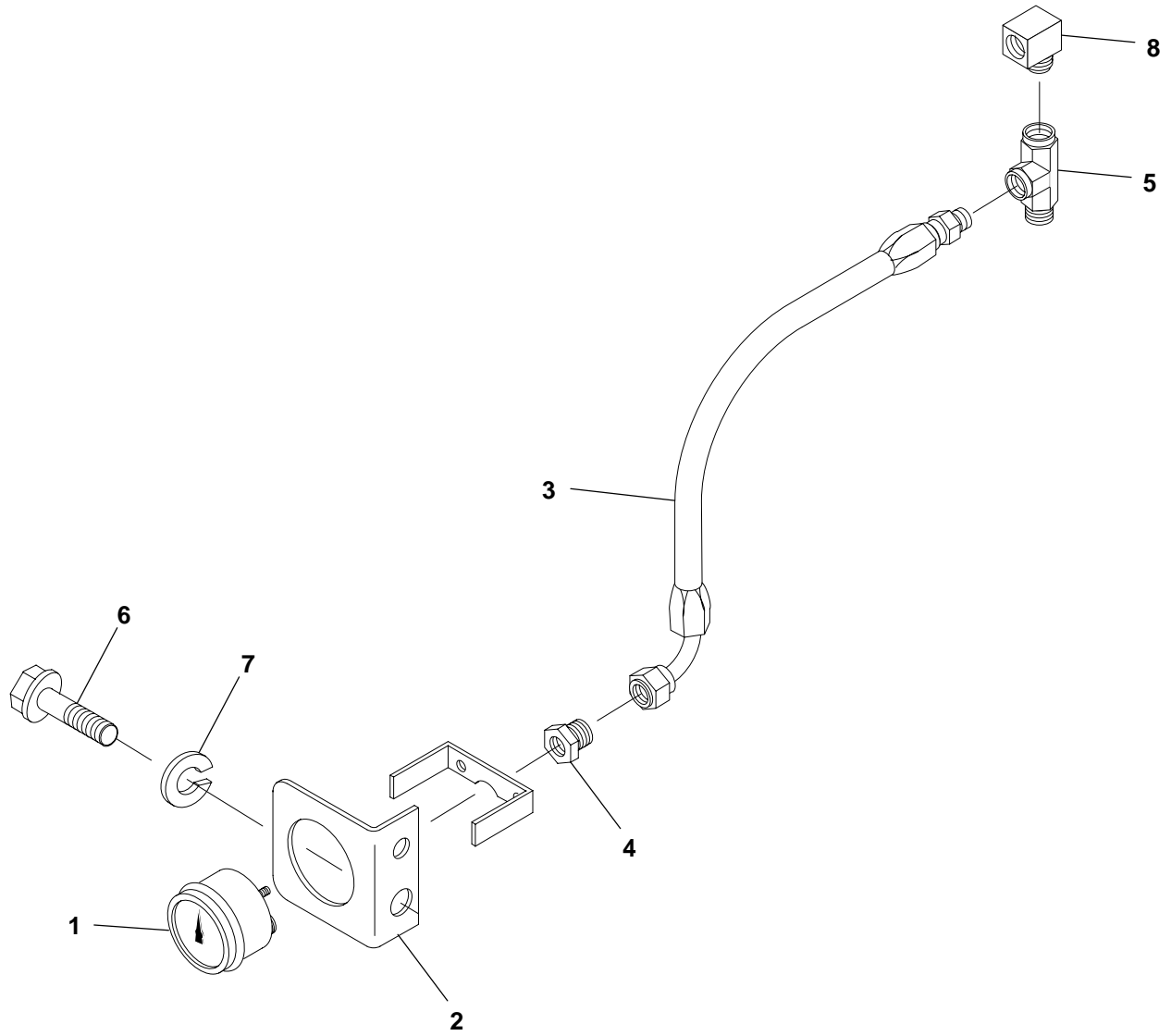
Fuel Pressure Gauge



H095

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0128	1	Gauge, Fuel Pressure (0-200 Lbs) (Includes Mounting Hardware)	8	505-0098	1	Nipple, Pipe (1/8") (DFED, DFFB)
2	193-0029	1	Bracket, Mounting	9	502-1226	1	Tee, Male Run (1/8") (DFED, DFFB)
3	800-0050	2	Screw, Cap - Hex Head (3/8-16 x 1")	10	518-0350	2	Clamp, Insulated
4	850-0050	2	Washer, Lock (3/8")	11	332-1794	A/R	Tie, Cable
5	504-0064	1	Valve	12	502-1302	1	Adapter, Fuel Line
6	370-4003	1	Tube, Copper (84")	13	502-0067	1	Connector, Male
7	502-0034	1	Elbow, Male Compression - 90 Deg				

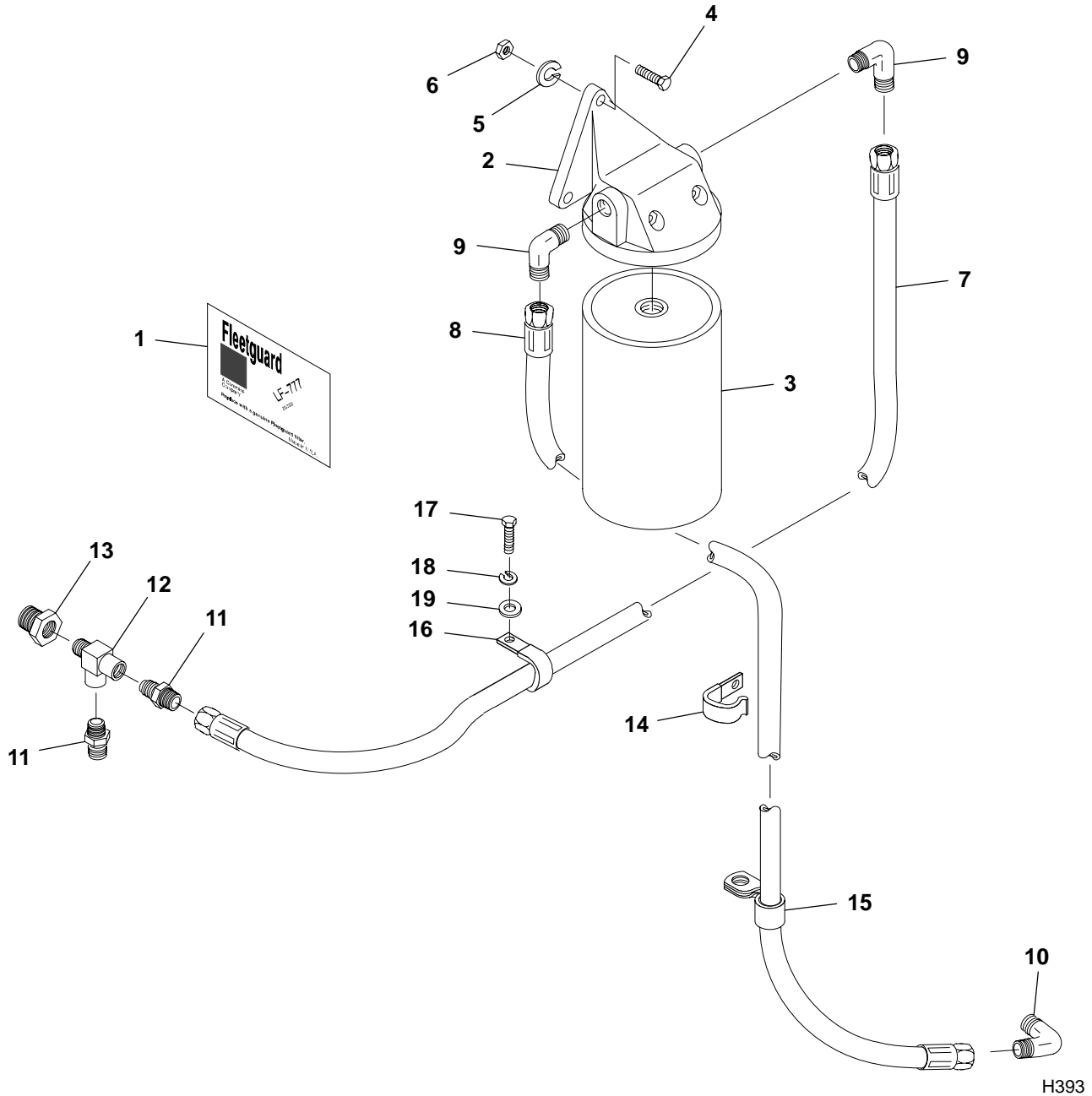
Mechanical Oil Pressure Gauge



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0451	1	Gauge, Oil Pressure – 0–100 PSI (Includes Mounting Hardware)
2	193-0029	1	Bracket, Mounting
3	501-0619	1	Hose, Oil Gauge
4	502-1232	1	Connector, Female

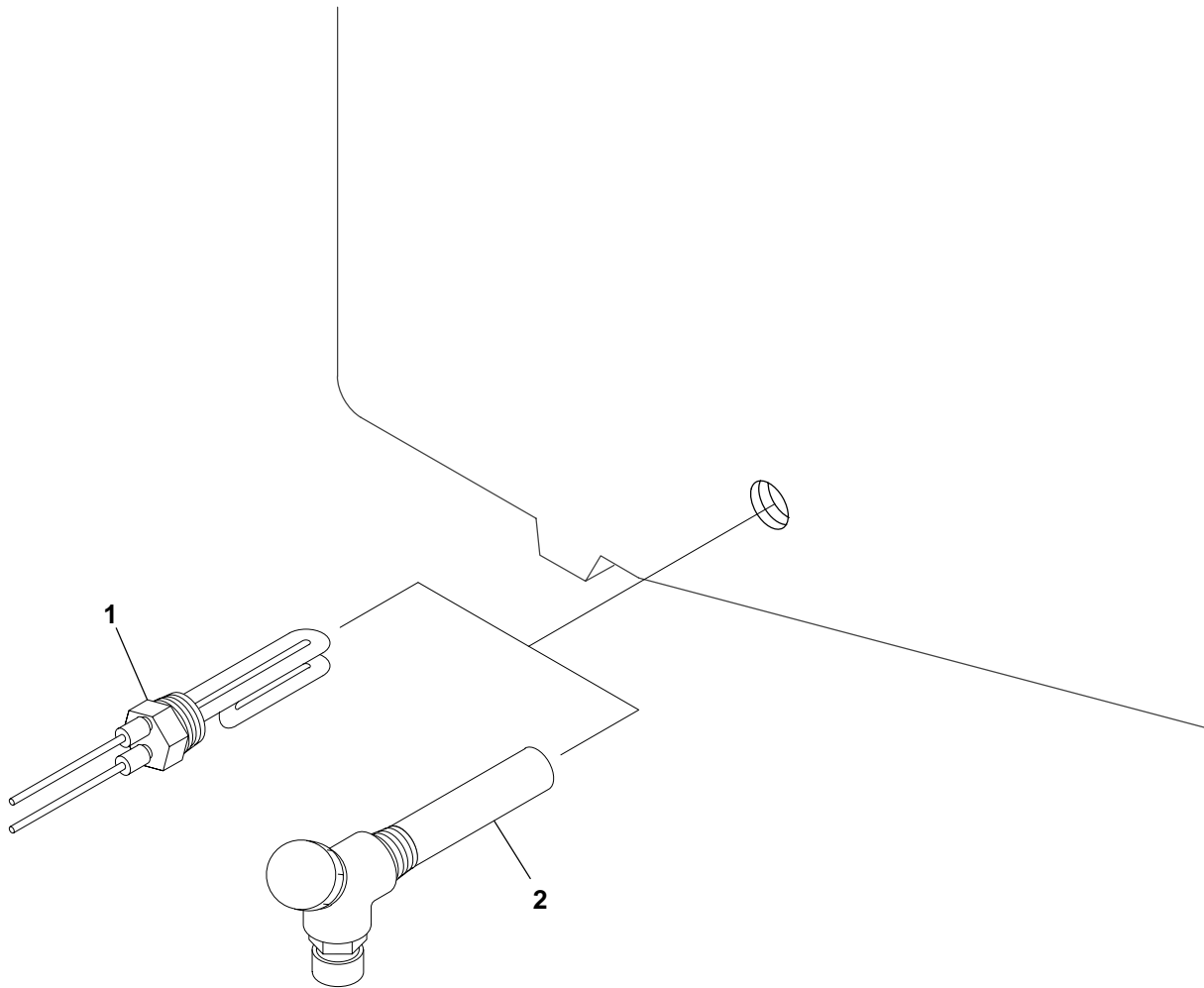
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	502-1226	1	Tee, Male Run (1/8–27)
6	800-0130	1	Screw, Cap – Hex Head (5/8–11 x 1")
7	850-0070	1	Washer, Lock – Spring (5/8")
8	502-0020	1	Elbow, Street – 90 Deg (1/8")

Lube Oil Filter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-5930-04	1	Decal, Oil Filter	11	502-1045-03	2	Connector, Male (5/8-18 x 1/4-18)
2	122-0702	1	Head, Oil Filter	12	502-1070	1	Tee, Straight Pipe (1/4-18)
3	122-0777	1	Filter, Lube Oil	13	505-1403	1	Bushing, Pipe - Reducer
4	800-0052	3	Screw, Cap - Hex Head (3/8-16 x 4")	14	332-2634	2	Clip
5	850-0103	3	Washer, Lock - Spring (3/8")	15	518-0561	1	Clip
6	862-0033	3	Nut, Hex (3/8-16)	16	332-2921	1	Clip
7	501-0537-29	1	Hose, Oil (29")	17	800-0091	1	Screw, Cap - Hex Head (1/2-13 x 1-1/4")
8	501-0537-18	1	Hose, Oil (65")	18	850-0060	1	Washer, Lock - Spring (1/2")
9	502-1043-11	2	Elbow, Adapter - Male (3/8-18 x 5/8-18)	19	526-0219	1	Washer, Flat (17/32")
10	502-1043-12	1	Elbow, Adapter - Male (1/2-14 x 5/8-18)				

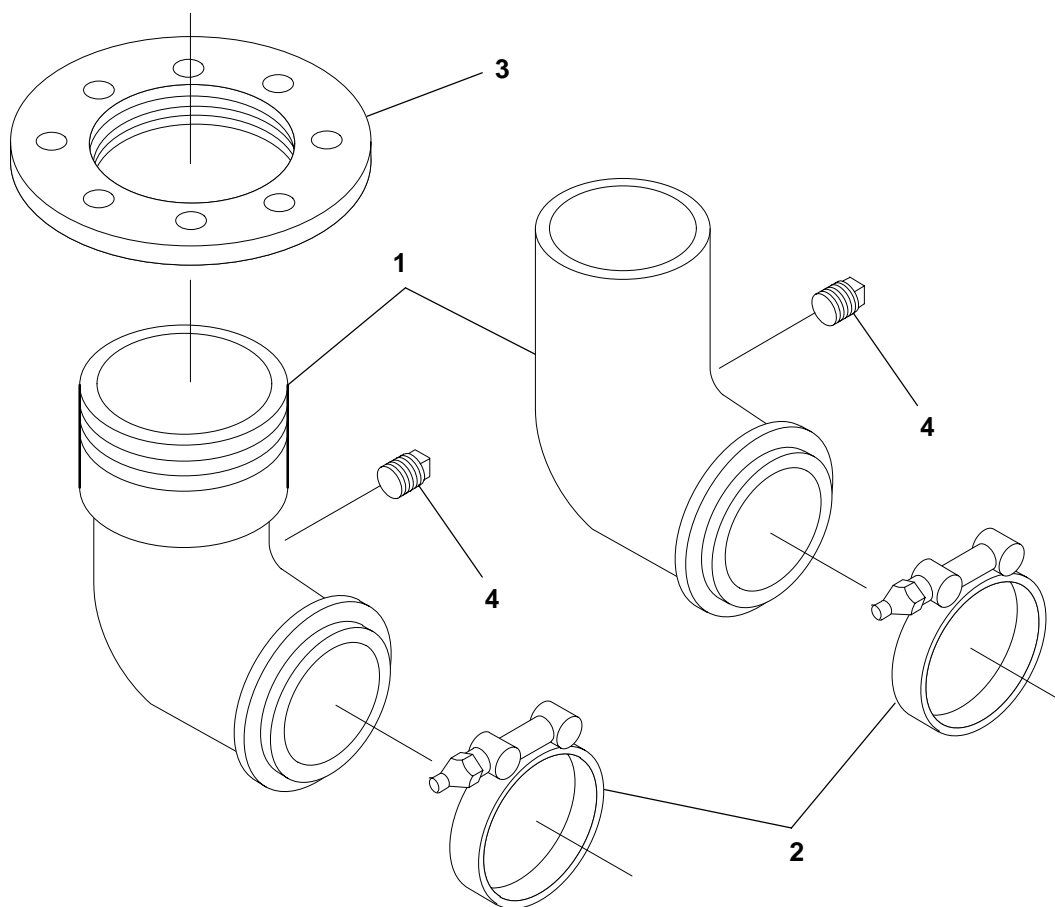
Oil Pan Heater



H479
H487
H488

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0407-02	1	Heater, Oil (300 Watt) 120 Volt	2	333-0407-05	1	Heater, Oil (300 Watt, 480 Volt)
	333-0407-04	1	240 Volt				

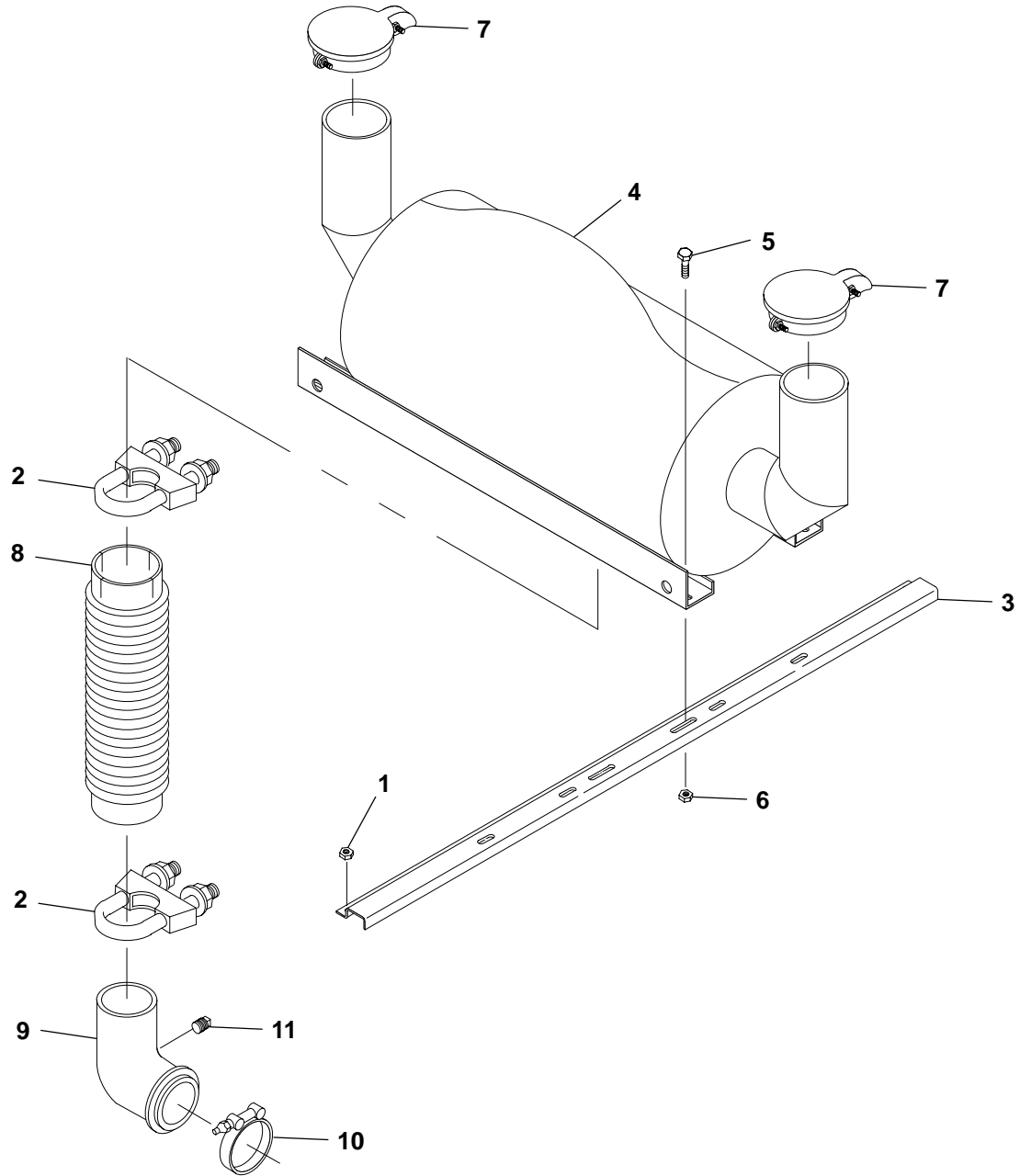
Exhaust Elbow (Unhoused Sets)



A298
A299
A335

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Elbow, Exhaust (5" OD)	2			Clamp, V Band
			With Threads		503-1619	1	DFEB, DFEC, DFED
	155-2438	1	DFEB, DFEC, DFED		503-1575-02	1	DFFB
	155-2437	1	DFFB	3	155-0658	1	Flange, Companion (Not
			Without Threads				Used on All Models)
	155-2435	1	DFEB, DFEC, DFED	4	502-0080	1	Plug, Square Head (1/8")
	155-2436	1	DFFB				

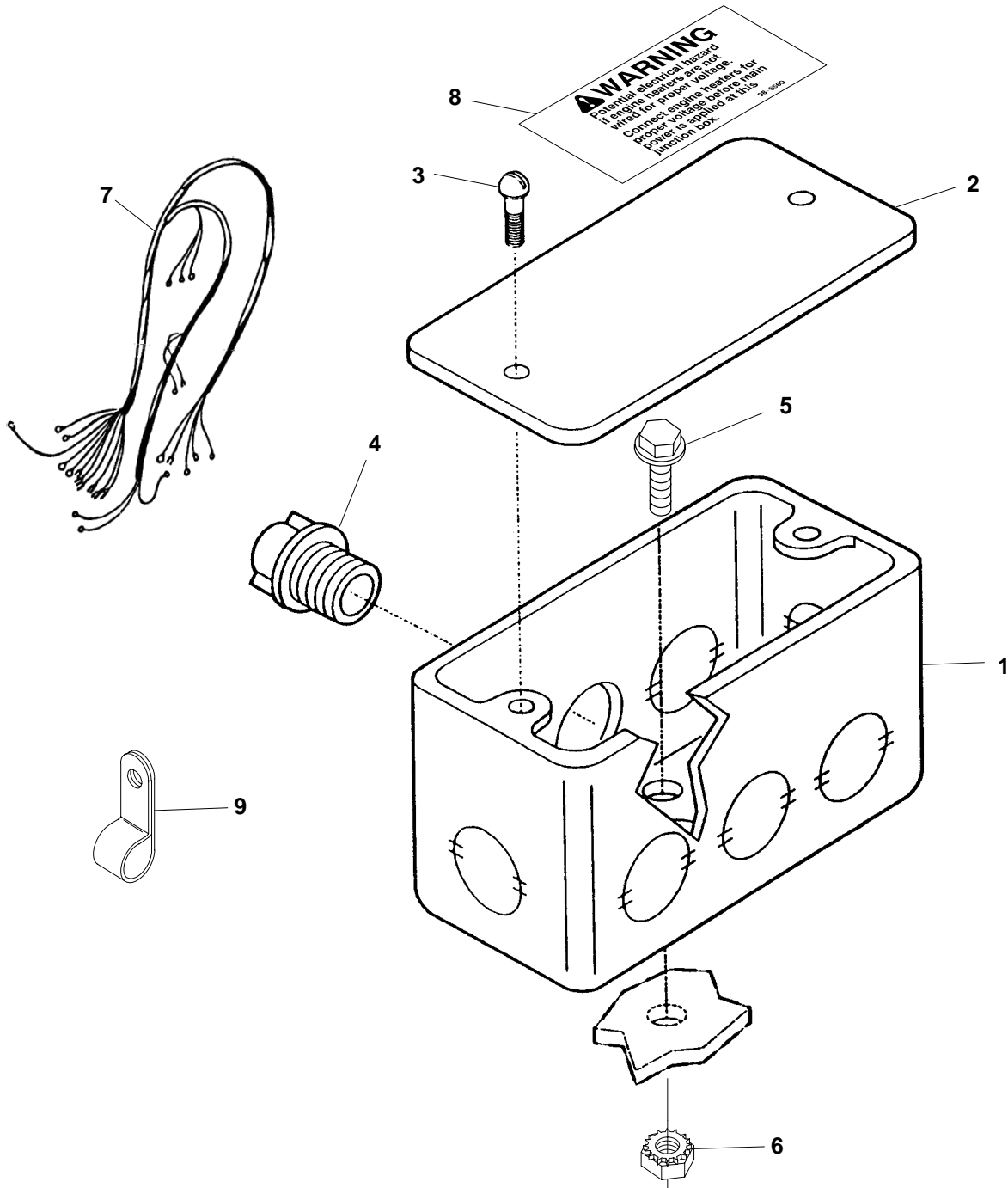
Muffler (Housed Sets)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0257	2	Nut, Locking – Hex (5/16-18)	8	155-2441	1	Tubing, Exhaust – Flexible
2	155-2159	2	Clamp, Muffler		155-2442	1	DFEB, DFEC, DFED
3	155-2440	1	Bracket, Mounting – Muffler				DFFB
4	155-2439	1	Muffler	9	155-2435	1	Elbow, Exhaust
5	821-0033	4	Screw, Self-Locking – Hex Washer Head (7/16-14 x 3/4")		155-2436	1	DFEB, DFEC, DFED
6	870-0437	4	Nut, Locking – Hex (7/16-14)				DFFB
7	155-2062-05	2	Cap, Rain	10	503-1619	1	Clamp, Muffler
					503-1575-02	1	DFEB, DFEC, DFED
							DFFB
				11	502-0080	1	Plug – Square Head (1/8")

Junction Box (Engine Coolant Heater)

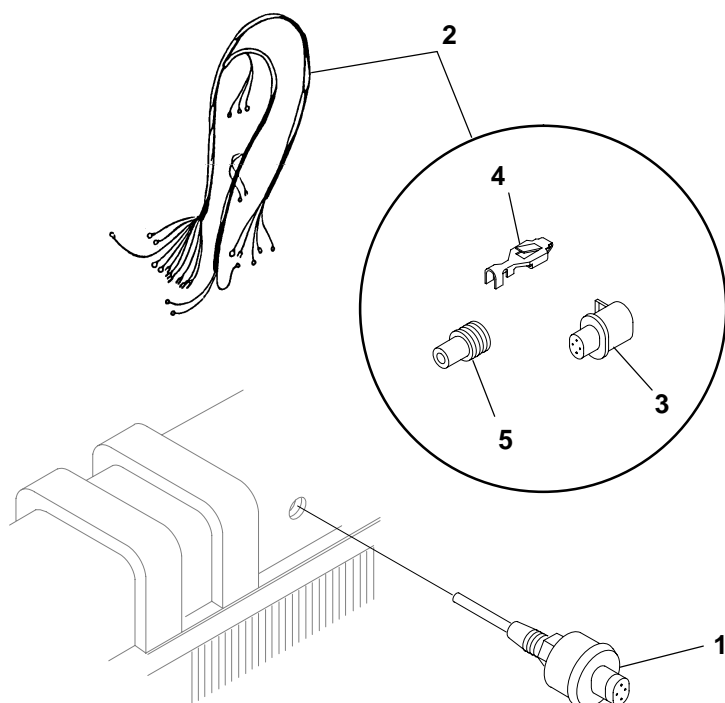
DFEB Spec J Through K, DFEC Spec C Through D, DFED Spec A, DFEB Begin Spec J



K505

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	330-0005	1	Box, Junction	7	338-2446	1	Harness, Wiring – Junction Box to Coolant Heater (3 Wire) (GND, Black, White to GND–GND, HTR–TH, HTR–EL) (72")
2	330-0004	1	Cover, Junction Box	8	098-6560	1	Tag, Warning
3	812-0079	2	Screw, Machine – Round Head (#8–32 x 1/2")	9	518-0548-08	2	Clamp, "J"
4	331-0027	4	Connector, Knockout				
5	813-0105	2	Screw, Cap – Hex Head (10–32 x 1")				
6	870-0131	2	Nut, Hex – W/EIT (10–32)				

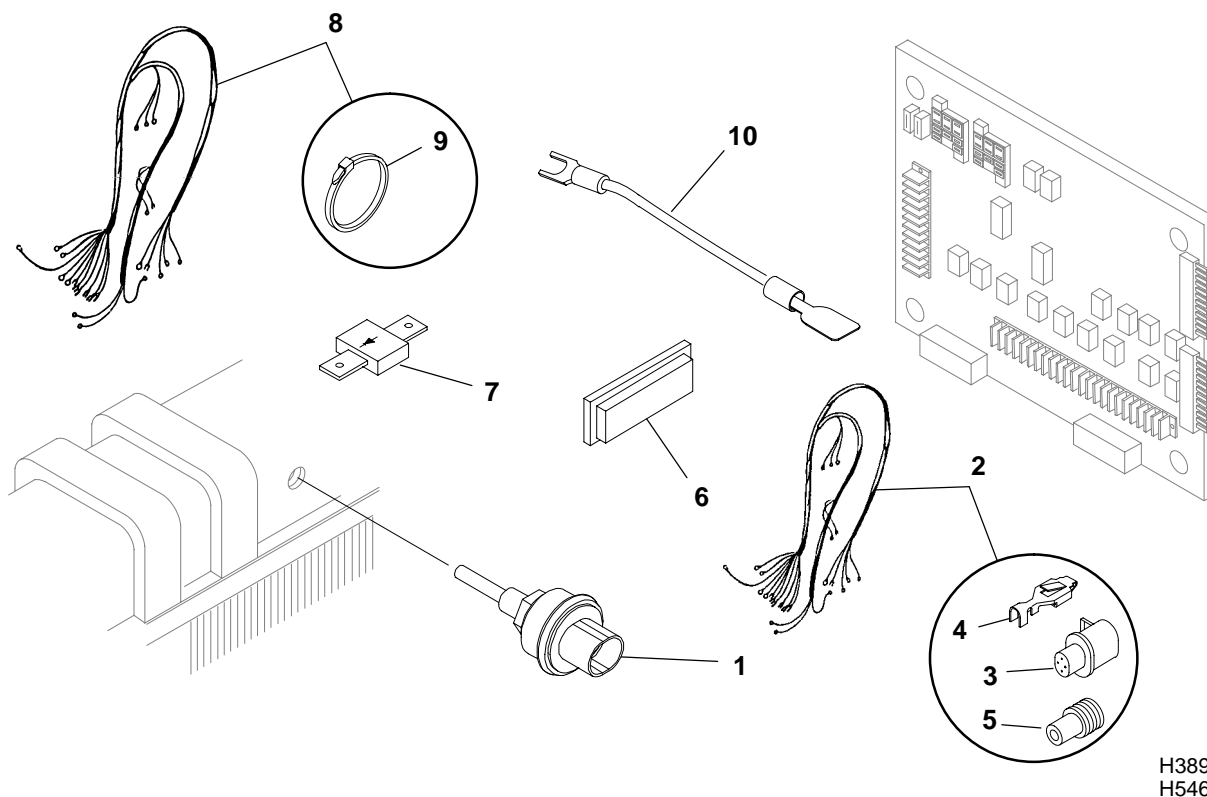
**Low Coolant Level Sender
Without Continuously Monitored Low Coolant Level
Generator Sets With Radiator Cooling**



H389
H527

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	193-0481	1	Sender Assembly – Low Coolant Level (Includes Parts Marked *)	3	323-1765	1	*# Connector, Housing – 4 Pin (S3)
1	193-0468	1	* Sender, Low Coolant Level (S7)	4	323-1709	4	*# Socket, Contact (S3)
2	338-3594	1	* Harness, Wiring – Pigtail – Low Coolant Level Sender (From S3 [A, B, C, D] to S3 [TEST, GND, B+, SIG]) (Includes Parts Marked #)	5	323-1708	4	*# Seal, Cable (S3)
				* – Parts Included In 193-0481 Low Coolant Level Sender Assembly			
				# – Parts Included In 338-3594 Pigtail Wiring Harness			

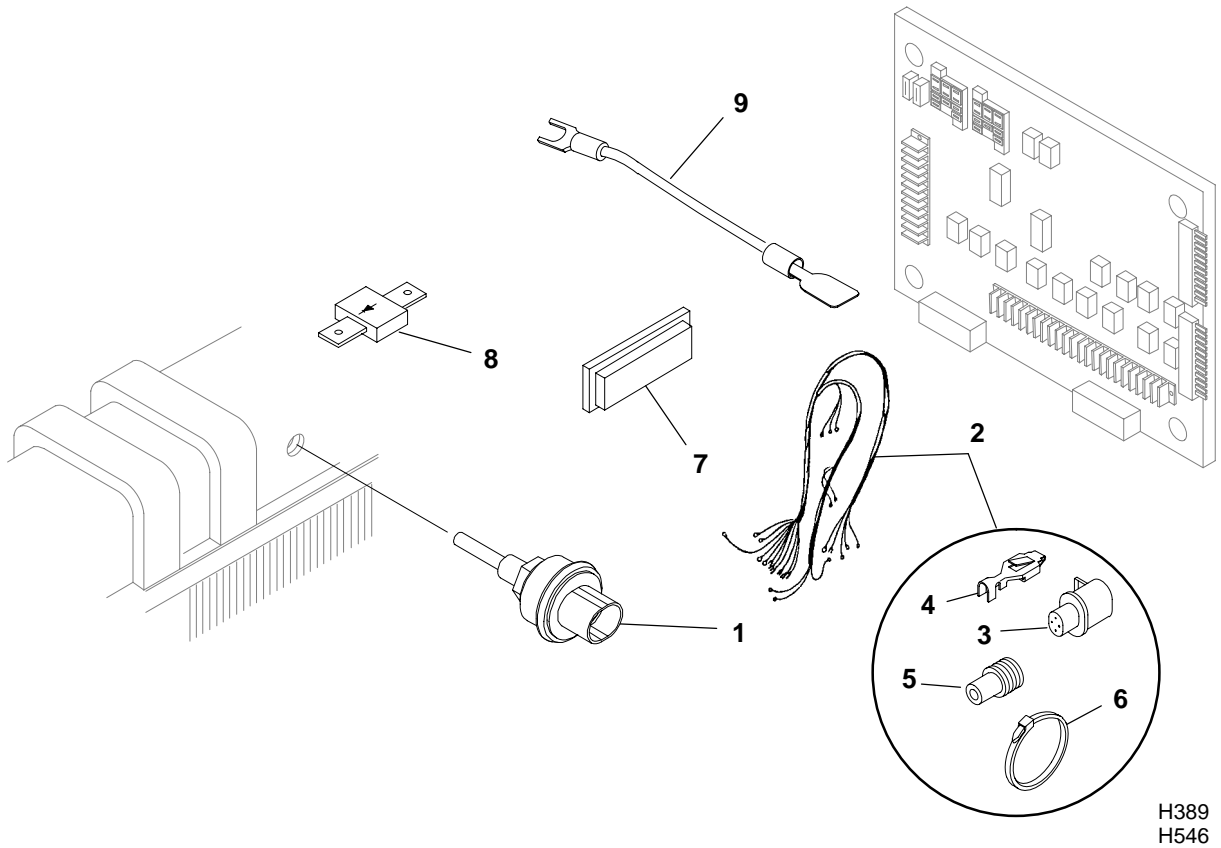
**Low Coolant Level Sender
With Continuously Monitored Low Coolant Level
12 Light Indicator Controls
Generator Sets With Radiator Cooling
DFEB Spec J Through N, DFEC Spec C Through G
DFED Spec A Through D, DFFB Begin Spec J**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	193-0481	1	Sender Assembly – Low Coolant Level (Includes Parts Marked *)	6	322-0431-07	1	Lens, Indicator Light (Marked “Coolant Lo”)
1	193-0468	1	* Sender, Low Coolant Level (S7)	7	357-0030	1	Diode (6 Amp)
2	338-3594	1	* Harness, Wiring – Low Coolant Level Sender (Pigtail – 6”) (Includes Parts Marked #) (S3 [A, B, C, D] to S3 [TEST, GND, B+, SIG])	8	338-3035-02	1	Harness, Wiring (3 Wire, 308”) (S7 to A11) (Includes Cable Tie – Ref No. 9)
3	323-1765	1	*# Connector, Housing – 4 Pin (S3)	9	332-1445	3	Tie, Cable
4	323-1709	4	*# Socket, Contact (S3)	10	226-4661-02	2	Lead (4”) (No Markings) (A11TB2-1 to Diode and A11TB2-16 to Diode)
5	323-1708	4	*# Seal, Cable (S3)				

* – Parts Included In 193-0481 Low Coolant Level Sender Assembly
– Parts Included In 338-3594 Pigtail Wiring Harness

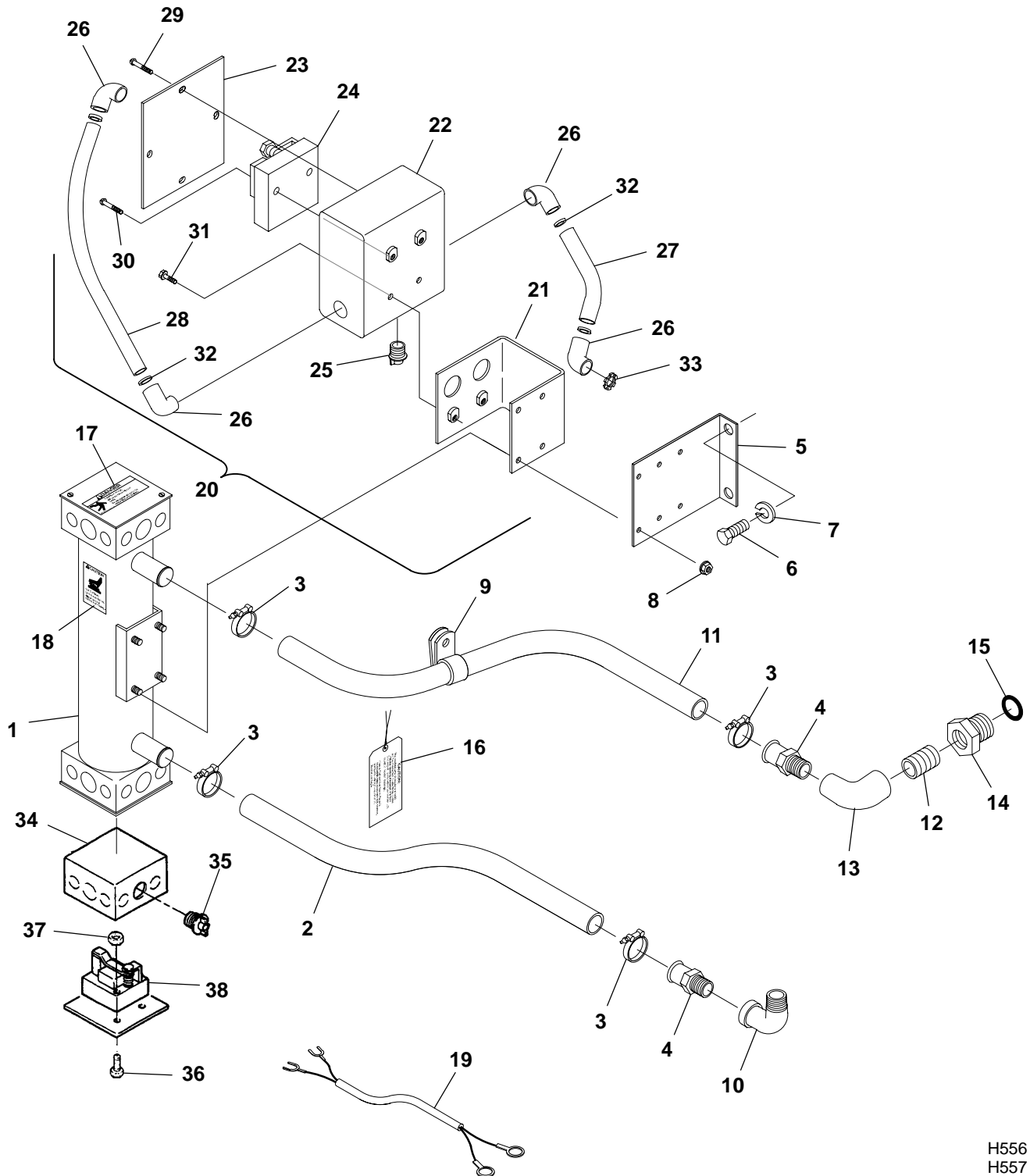
**Low Coolant Level Sender
With Continuously Monitored Low Coolant Level
12 Light Indicator Controls
Generator Sets With Radiator Cooling
DFEB Begin Spec P, DFEC Begin Spec H, DFED Begin Spec E**



H389
H546

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	332-1445	—	* Tie, Cable (Quantity Used As Required)
2	338-3763-02	1	Harness, Wiring – Low Coolant Level Sender (300") (Includes Parts Marked *) (S7 [A, B, C, D] to A11 [TEST, TB1-5, TB1-7, TB2-1])	7	322-0431-07	1	Lens, Indicator Light (Marked "Coolant Lo")
3	323-1765	1	* Connector, Housing – 4 Pin (S3)	8	357-0030	1	Diode (6 Amp)
4	323-1709	4	* Socket, Contact (S3)	9	226-4661-02	2	Lead (4") (No Markings) (A11TB2-1 to Diode and A11TB2-16 to Diode)
5	323-1708	4	* Seal, Cable (S3)				* – Parts Included In 338-3763 Wiring Harness

Engine Coolant Heater
DFEB Spec J Through K, DFEC Spec C Through D, DFED Spec A, DFFB Begin Spec J



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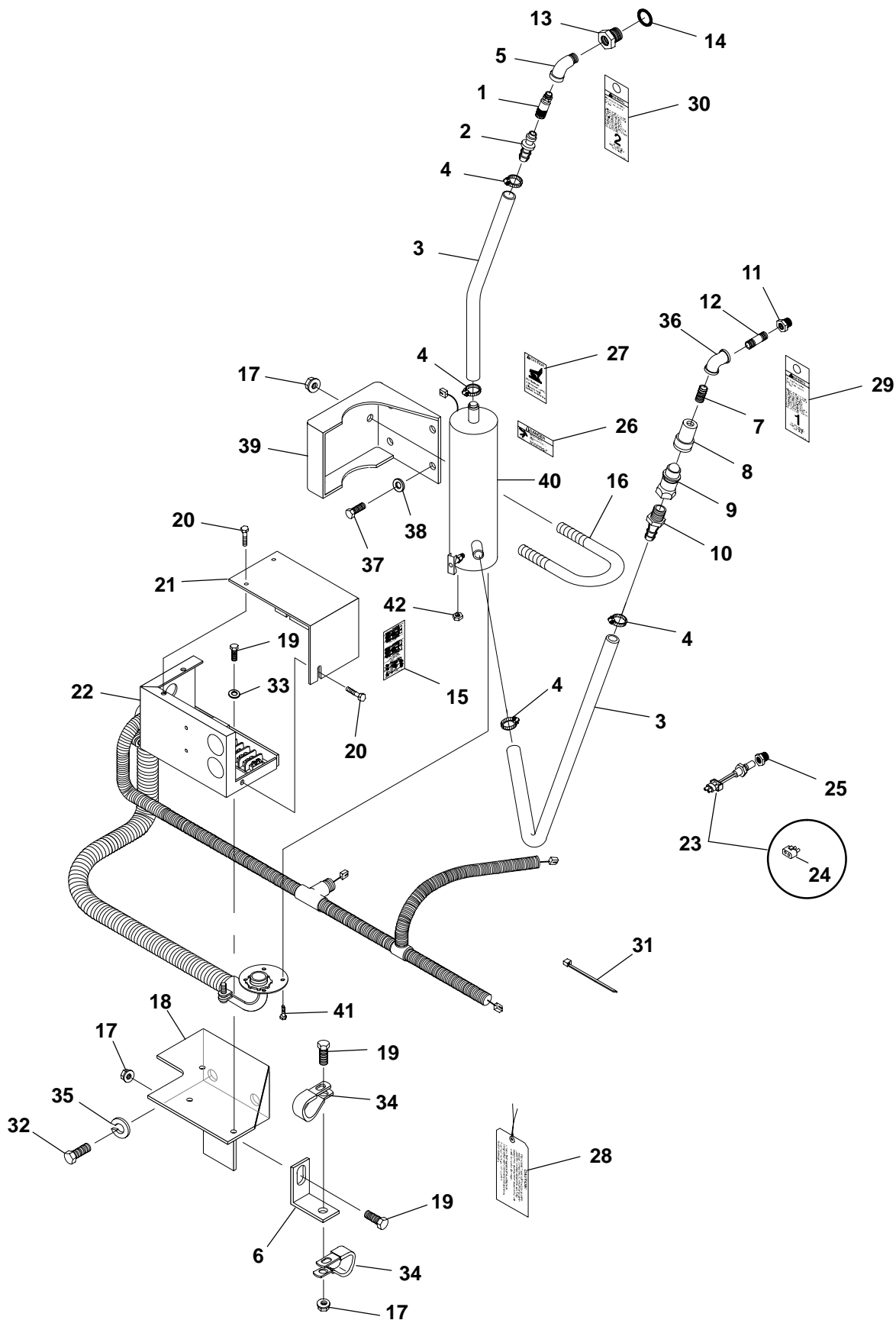
Engine Coolant Heater
DFOB Spec J Through K, DFEC Spec C Through D, DFED Spec A, DFFB Begin Spec J

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater, Coolant (4000 Watts) (Includes Thermostat and Parts Marked #)	20	179-2661	1	Relay Assembly (Includes Parts Marked *) (Quantities Listed Below Are For 1 Heater Relay Assembly)
	333-0494-02	1	120 Volts	21	130-4083	1	* Bracket, Relay Box
	333-0494-01	1	208, 240, 480 Volts	22	130-4079	1	* Box, Relay
	333-0468	1	Thermostat, Heater (Service Replacement) (Not Illustrated)	23	130-4082	1	* Cover, Relay Box
2	503-1779	-	Hose, Radiator Inlet - Bulk (1" ID) (Order by the Foot, 4 Feet Required)	24	307-2762	1	* Relay, Power (K1, K2)
3	503-1872-01	4	Clamp, Hose	25	331-0027	1	* Connector, Romex (3/8")
4	502-0971	2	Connector, Hose	26	331-0010	4	* Connector (1/2" x 90 Deg)
5	130-3719	1	Bracket, Heater Mounting	27	331-0531-01	1	* Conduit, Flexible (1/2" x 6")
6	800-0130	2	Screw, Cap - Hex Head (5/8-11 x 1")	28	331-0531-02	1	* Conduit, Flexible (1/2" x 11-1/2")
7	850-0070	2	Washer, Lock - Spring (5/8")	29	813-0100	6	* Screw, Machine - Round Head (#10-32 x 1/2")
8	870-0212	4	Nut, Locking - Hex Head (1/4-20)	30	813-0103	2	* Screw, Machine - Round Head (#10-32 x 3/4")
9	518-0548-02	1	Clip, Retainer	31	821-0010	2	* Screw, Locking - Hex Washer Head (1/4-20 x 1/2")
10	505-0051	1	Elbow, Street (3/4")	32	331-0533	4	* Bushing, Antishort (1/2")
11	503-1779	-	Hose, Radiator Inlet - Bulk (1" ID) (Order by the Foot, 3 Feet Required)	33	331-0532	1	* Locknut, Sealing (1/2")
12	505-0004	1	Nipple, Close (1" x 1-1/2")	34	330-0144	2	# Box, Extension
13	505-0356	1	Elbow, Reducing - 90 Deg (1" to 3/4")	35	331-0027	2	# Connector, Romex
14	505-1384	1	Bushing, Reducer	36	812-0082	4	# Screw, Machine - Round Head (#8-32 x 3/4")
15	509-0272	1	Seal, O-Ring	37	870-0221	4	# Nut, Hex - With ET (#8-32)
16	098-6030	1	Tag, Caution	38	307-2762	2	# Relay, Power
17	098-5347-01	1	Label, Danger				
18	098-6195	1	Label, Caution				
19	338-2760-02	1	Harness, Wiring (Relay to T26 Terminal - Used on Some Early Models)				

- Parts Included In Engine Coolant Heater

* - Parts Included in Heater Relay Assembly

Engine Coolant Heater **DFEB Spec L Through P, DFEC Spec E Through H, DFED Spec B Through E**

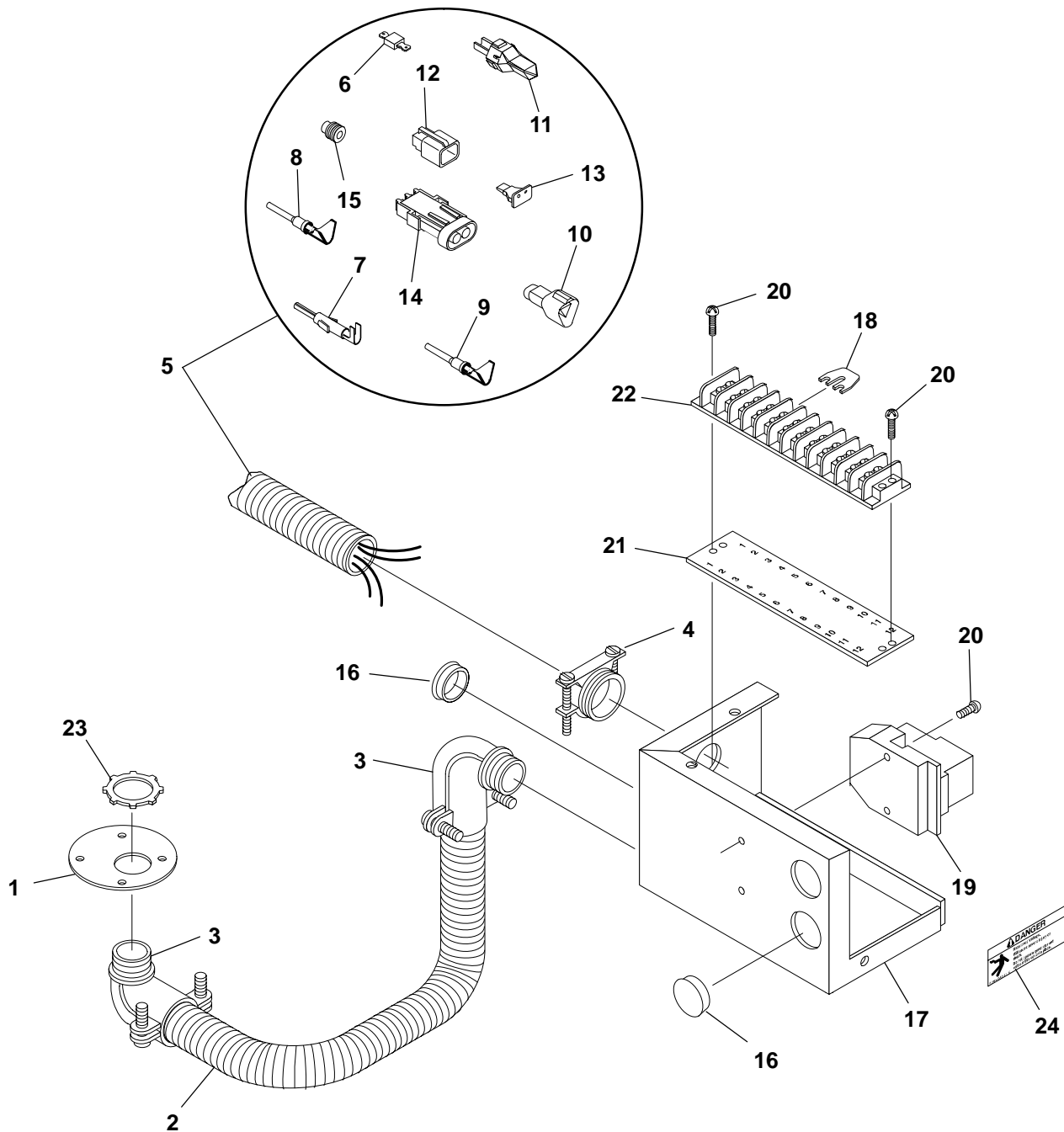


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H557

Engine Coolant Heater
DFEB Spec L Through P, DFEC Spec E Through H, DFED Spec B Through E

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-1259	1	Coupler, Engine Coolant Heater	23	309-0649	1	Thermostat (S11) (Includes Connector – Ref No. 24)
2	502-1257	1	Connector, Hose – Barbed	24	323-1637	1	Connector
3	503-1634-03	2	Hose (3/4" ID x 12-1/2")	25	502-1336	1	Bushing, Pipe – Reducer (1/2" to 3/8")
4	503-2157-01	4	Clamp, Hose	26	098-5347	2	Label, Danger
5	505-0050	1	Elbow, Pipe – Street (1/2")	27	098-6195	1	Label, Caution
6	130-3861	1	Bracket, Mounting – Tube	28	098-6030	1	Tag, Caution
7	505-0100	1	Nipple, Pipe (1/2" x 1-1/8")	29	098-7182-01	1	Tag, Label
8	502-1260	1	Coupler, Water Heater	30	098-7182-02	1	Tag, Label
9	502-1261	1	Nipple, Water Heater	31	332-0941	4	Tie, Cable
10	502-0827	1	Connector, Hose – Barbed	32	800-0130	2	Screw, Cap – Hex Head (5/8-11 x 1")
11	505-0021	1	Bushing, Pipe – Reducer (3/4" to 1/2")	33	526-0128	2	Washer, Flat (3/8" ID x 1/4" Thk)
12	505-0078	1	Nipple, Pipe (1/2" x 2-1/2")	34	332-2634	1	Clamp, "J"
13	505-1519	1	Bushing, Pipe (1-3/4"-18 x 1/2")	35	850-0070	2	Washer, Lock – Spring (5/8")
14	509-0272	1	Seal, O-Ring	36	505-0040	1	Elbow, Pipe – 90 Deg (1/2")
15	098-7183	1	Label, Relay Box	37	800-0051	4	Screw, Cap – Hex Head (3/8-16 x 1-1/4")
16	155-3021	1	Clamp, Mounting – Water Heater	38	526-0029	4	Washer, Flat (3/8")
17	870-0550-09	4	Nut, Flange – Hex Head (3/8-16)	39	130-4608	1	Bracket, Mounting – Water Heater
18	130-4618	1	Bracket, Mounting – Water Heater Control	40			Heater, Water (240/480 Volts) (HTR)
19	821-5004-02	4	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")		333-0639-01	1	4990 Watts
					333-0639-02	1	6420 Watts
20	821-5002-03	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	41	815-0539	3	Screw, Machine – Round Head – Cross Recessed W/IT (#8-32 x 5/8")
21	319-2815	1	Cover, Control	42	870-0131	3	Nut, Locking – W/ET (#10-32)
22	–	–	Engine Coolant Heater Control Assembly (See Page 39 For Components)				

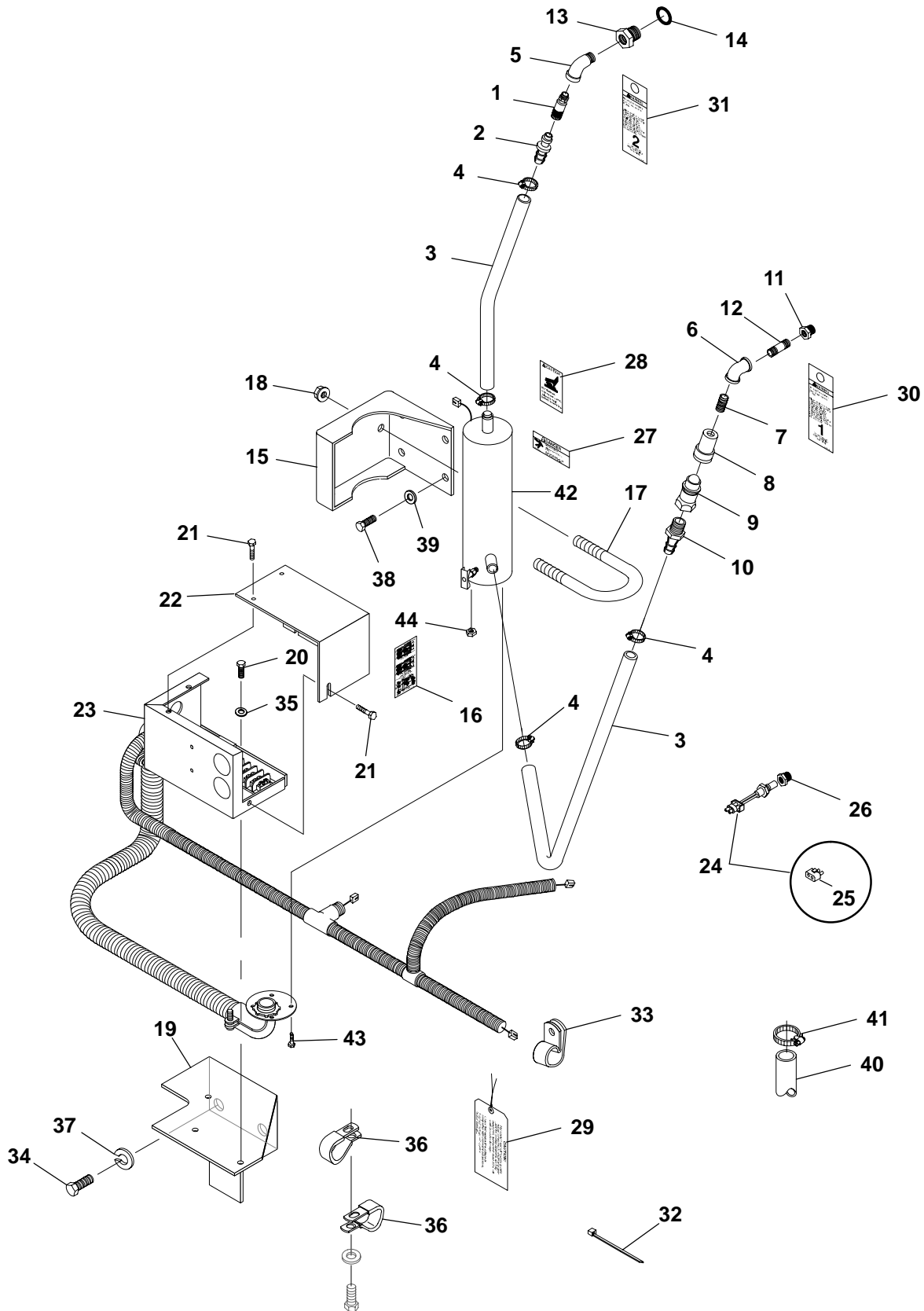
Engine Coolant Heater Control
DFEB Spec L Through P, DFEC Spec E Through H, DFED Spec B Through E



Engine Coolant Heater Control
DFEB Spec L Through P, DFEC Spec E Through H, DFED Spec B Through E

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4552	1	Cover, Water Heater	10	323-1494	1	* Connector, Receptacle (3 Place) (J3)
2	338-3335-06	1	Harness, Wiring (AC Harness – TB1-1 To HTR-GND, TB1-2 To HTR-2, TB1-3 To HTR-3, TB1-4 and TN1-6 To HTR-4) (49") (Includes Conduit Connectors – Ref No. 3)	11	323-1502	1	* Wedge (Used in J3)
				12	323-1504	1	* Connector, Plug (2 Place) (P4)
				13	323-1500	1	* Wedge (Used in P4)
3	331-0554	2	Connector, Conduit – 90 Deg (3/4")	14	323-1652	1	* Connector, Plug (2 Place) (P11)
4	331-0042	1	Connector, Romex (3/4")	15	323-1445	2	* Seal, Wire (Used in P11)
5	338-3399	1	Harness, Wiring (DC Harness – J3-C To K11-2, J3-B To CR1-1, P4-2 To SP1, K11-1 To CR1-2, P11-B To SP1, J3-A To SP2, P4-1 To SP2, P11-A To SP2) (94") (Includes Parts Marked *)	16	517-0138-02	3	Plug, Hole (Fits 3/4" Hole)
				17	319-2814	1	Box, Control
				18	332-3440	1	Jumper, Terminal
				19	307-2859	1	Relay, Power (K11)
				20	815-0464	4	Screw, Machine – Round Head – Cross Recessed W/IT – Thread Forming (#8-32 x 3/4")
6	357-0030	1	* Rectifier (Located At K11 End Of Harness) (CR1)	21	332-1469	1	Strip, Marker (12 Place)
				22	332-1468	1	Block, Terminal (12 Place) (TB1)
7	323-1718	2	* Pin, Contact (Used In P11)	23	331-0555	2	Nut, Lock – Conduit (3/4")
8	323-1491	3	* Pin, Contact (Used In J3)	24	098-5347-01	1	Label, Danger
9	323-1492	2	* Socket, Contact (Used In P4)				

Engine Coolant Heater **DFEB Begin Spec R, DFEC Begin Spec J, DFED Begin Spec F**

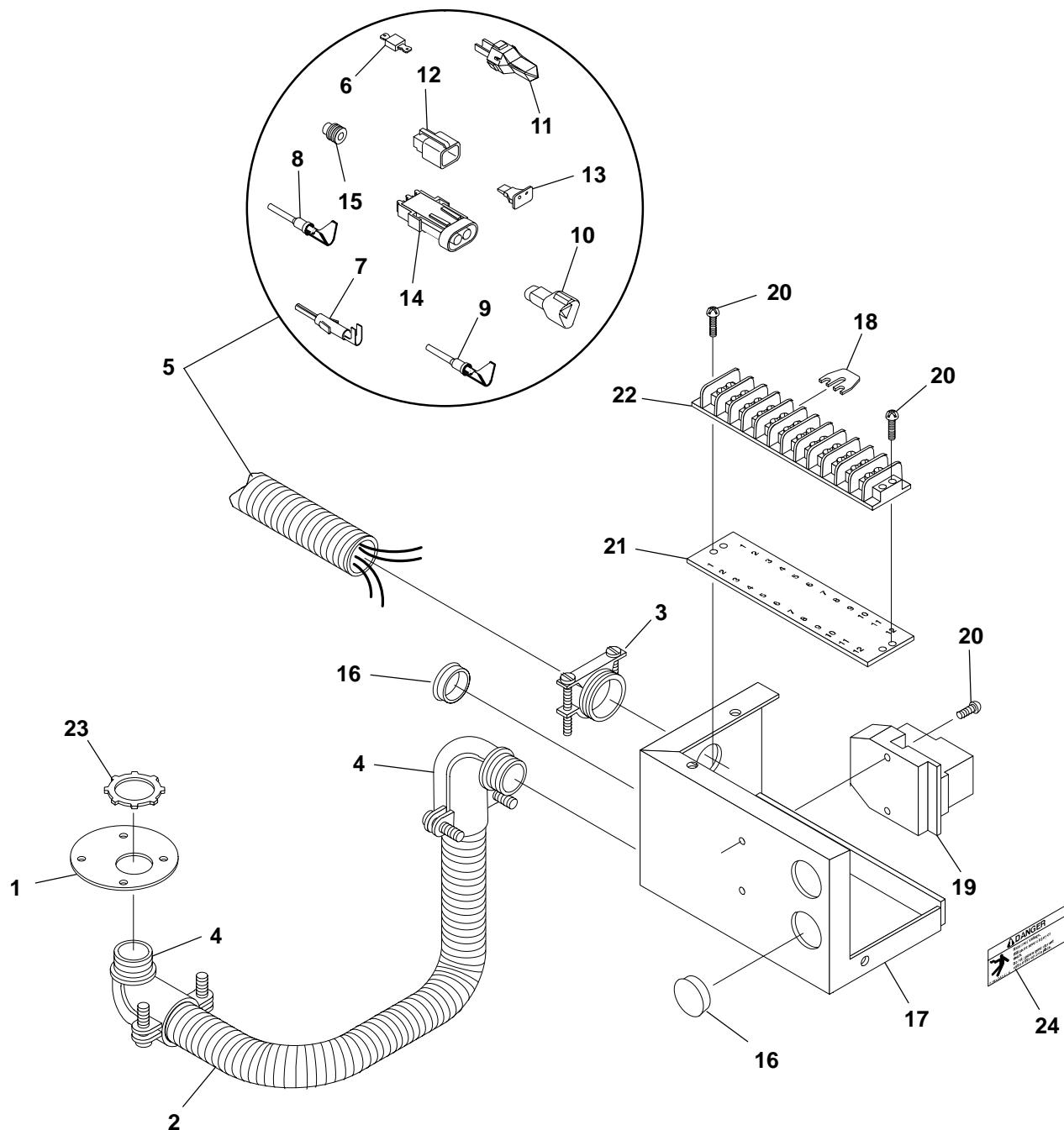


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Engine Coolant Heater
DFEB Begin Spec R, DFEC Begin Spec J, DFED Begin Spec F

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-1259	1	Coupler, Engine Coolant Heater	24	309-0649	1	Thermostat (S11) (Includes Connector – Ref No. 25)
2	502-1257	1	Connector, Hose – Barbed	25	323-1637	1	Connector
3	503-1634-03	2	Hose (3/4" ID x 12-1/2")	26	502-1336	1	Bushing, Pipe – Reducer (1/2" to 3/8")
4	503-2157-01	4	Clamp, Hose	27	098-5347	2	Label, Danger
5	505-0050	1	Elbow, Pipe – Street (1/2")	28	098-6195	1	Label, Caution
6	505-0040	1	Elbow, Pipe – 90 Deg (1/2")	29	098-6030	1	Tag, Caution
7	505-0100	1	Nipple, Pipe (1/2" x 1-1/8")	30	098-7182-01	1	Tag, Label
8	502-1260	1	Coupler, Water Heater	31	098-7182-02	1	Tag, Label
9	502-1261	1	Nipple, Water Heater	32	332-0941	4	Tie, Cable
10	502-0827	1	Connector, Hose – Barbed	33	518-0548-35	4	Clamp, Hose
11	505-0021	1	Bushing, Pipe – Reducer (3/4" to 1/2")	34	800-0130	2	Screw, Cap – Hex Head (5/8-11 x 1")
12	505-0078	1	Nipple, Pipe (1/2" x 2-1/2")	35	526-0128	2	Washer, Flat (3/8" ID x 1/4" Thk)
13	505-1519	1	Bushing, Pipe (1-3/4"-18 x 1/2")	36	332-2634	1	Clamp, "J"
14	509-0272	1	Seal, O-Ring	37	850-0070	2	Washer, Lock – Spring (5/8")
15	130-4608	1	Bracket, Mounting – Water Heater	38	800-0051	4	Screw, Cap – Hex Head (3/8-16 x 1-1/4")
16	098-7183	1	Label, Relay Box	39	526-0029	4	Washer, Flat (3/8")
17	155-3021	1	Clamp, Mounting – Water Heater	40	503-0361	1	Hose, Bulk (1-1/2" ID) (Order By the Foot – 1 Foot Required)
18	870-0550-09	2	Nut, Flange – Hex Head (3/8-16)	41	503-0398	1	Clamp, Hose
19	130-4618	1	Bracket, Mounting – Water Heater Control	42			Heater, Water (240/480 Volts) (HTR)
20	821-5004-02	2	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")		333-0639-01	1	4990 Watts
					333-0639-02	1	6420 Watts
21	821-5002-03	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	43	815-0539	3	Screw, Machine – Round Head – Cross Recessed W/IT (#8-32 x 5/8")
22	319-2815	1	Cover, Control	44	870-0131	3	Nut, Locking – W/ET (#10-32)
23	–	–	Engine Coolant Heater Control Assembly (See Page 43 For Components)				

Engine Coolant Heater Control
DFEB Begin Spec R, DFEC Begin Spec J, DFED Begin Spec F

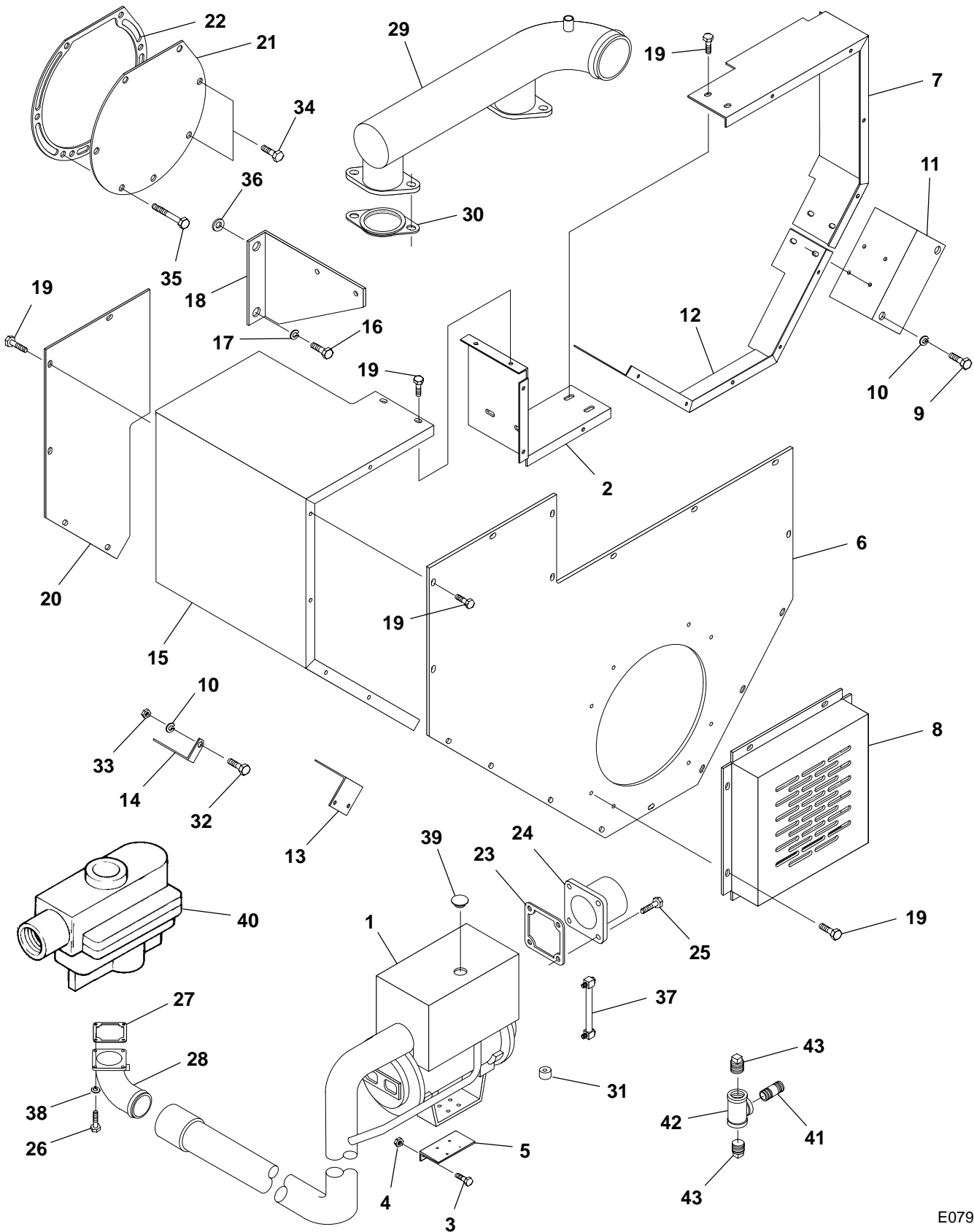


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Engine Coolant Heater Control
DFEB Begin Spec R, DFEC Begin Spec J, DFED Begin Spec F

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4552	1	Cover, Water Heater	10	323-1494	1	* Connector, Receptacle (3 Place) (J3)
2	338-3923-06	1	Harness, Wiring (AC Harness – TB1-1 To HTR-GND, TB1-2 To HTR-2, TB1-3 To HTR-3, TB1-4 and TN1-6 To HTR-4) (40") (Includes Conduit Connectors – Ref No. 3)	11	323-1502	1	* Wedge (Used in J3)
				12	323-1504	1	* Connector, Plug (2 Place) (P4)
				13	323-1500	1	* Wedge (Used in P4)
3	331-0554	2	Connector, Conduit – 90 Deg (3/4")	14	323-1652	1	* Connector, Plug (2 Place) (P11)
4	331-0042	1	Connector, Romex (3/4")	15	323-1445	2	* Seal, Wire (Used in P11)
5	338-3399	1	Harness, Wiring (DC Harness – J3-C To K11-2, J3-B To CR1-1, P4-2 To SP1, K11-1 To CR1-2, P11-B To SP1, J3-A To SP2, P4-1 To SP2, P11-A To SP2) (94") (Includes Parts Marked *)	16	517-0138-02	3	Plug, Hole (Fits 3/4" Hole)
				17	319-2814	1	Box, Control
				18	332-3440	1	Jumper, Terminal
				19	307-2859	1	Relay, Power (K11)
				20	815-0464	4	Screw, Machine – Round Head – Cross Recessed W/IT – Thread Forming (#8-32 x 3/4")
6	357-0030	1	* Rectifier (Located At K11 End Of Harness) (CR1)	21	332-1469	1	Strip, Marker (12 Place)
				22	332-1468	1	Block, Terminal (12 Place) (TB1)
7	323-1718	2	* Pin, Contact (Used In P11)	23	331-0555	2	Nut, Lock – Conduit (3/4")
8	323-1491	3	* Pin, Contact (Used In J3)	24	098-5347-01	1	Label, Danger
9	323-1492	2	* Socket, Contact (Used In P4)				

Heat Exchanger



E079

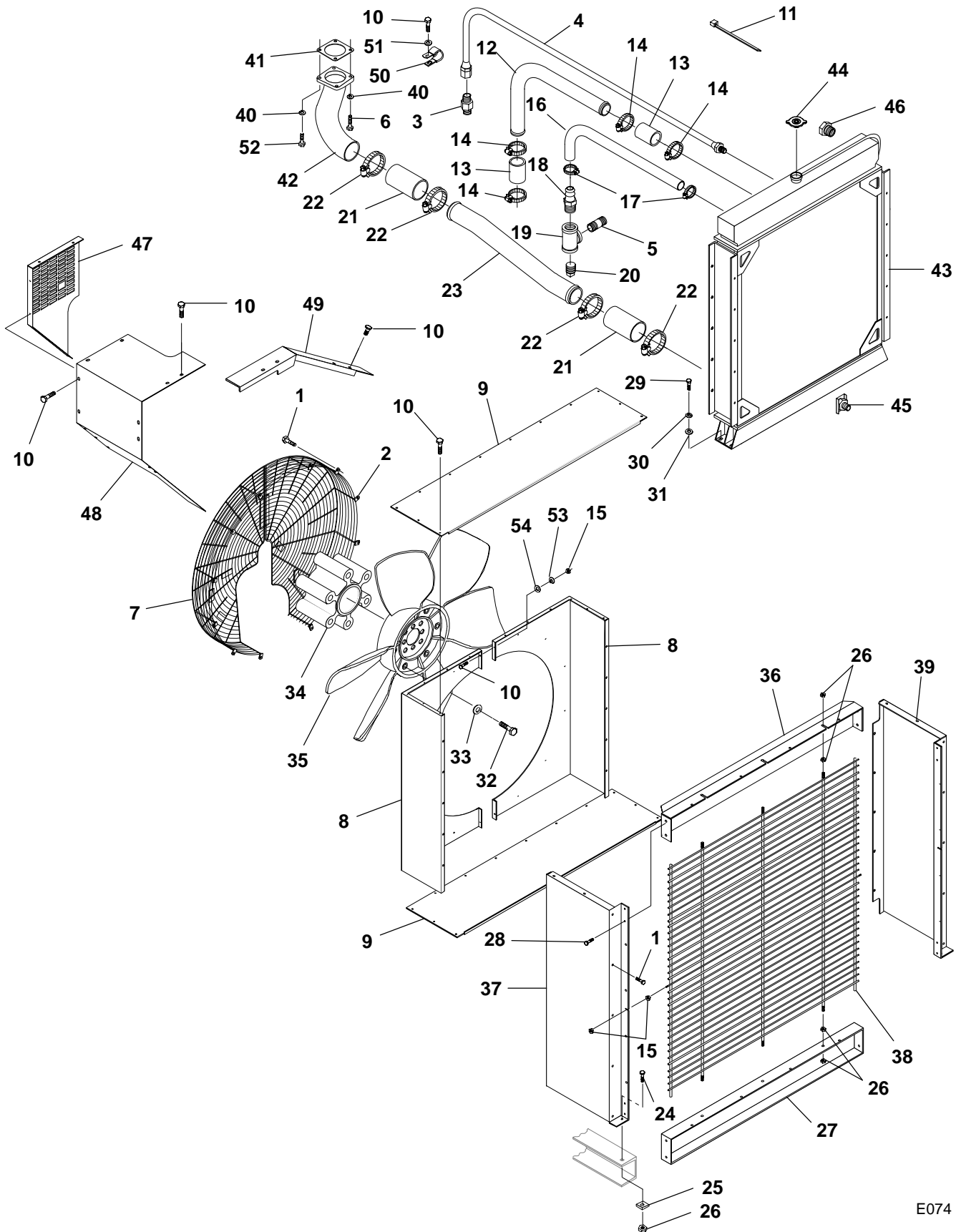
Heat Exchanger

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	—	1	Exchanger, Heat (Includes Cap – Ref No. 39) (Assembly and Component Parts are Available from Cummins as Modification Number HX 4073)	24	130-3497	2	Connector, Sea Water
2	130-3729	1	Guard, Belt	25	815-0713	8	Screw, Cap – Hex Washer Head (3/8-16 x 1-1/4")
3	821-0030	2	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")	26	800-0050	4	Screw, Cap – Hex Head (3/8-16 x 1")
4	870-0281	2	Nut, Locking (3/8-16)	27	130-3469	1	Gasket, Water Connection
5	130-3736	1	Bracket, Belt Guard	28	130-3478	1	Connection, Water Inlet
6	130-3733	1	Cover, Belt Guard	29	130-3475	1	Connection, Water Transfer
7	130-3730	1	Guard, Belt	30	130-3495	2	Gasket, Water Connection
8	130-3734	1	Cover, Belt Guard	31	130-3486	8	Isolator, Noise
9	800-0090	3	Screw, Cap – Hex Head (1/2-13 x 1")	32	800-0229	1	Screw, Cap – Hex Head (1/2-13 x 2-1/2)
10	850-0060	3	Washer, Lock – Spring (1/2")	33	862-0035	2	Nut, Hex (1/2-13)
11	130-3737	1	Bracket, Belt Guard	34	800-0052	2	Screw, Cap – Hex Head (3/8-16 x 1-1/2")
12	130-3731	1	Guard, Belt	35	800-0064	5	Screw, Cap – Hex Head (3/8-16 x 4-1/2")
13	130-3738	1	Bracket, Belt Guard	36	526-0249	2	Washer, Flat (7/16")
14	130-3739	1	Bracket, Belt Guard	37	130-3314-01	1	Gauge, Sight (Includes Two Mounting Hex Head Cap Screws)
15	130-3732	1	Guard, Belt	38	850-0050	4	Washer, Lock – Spring (3/8")
16	800-0071	1	Screw, Cap – Hex Head (1/2-13 x 1")	39	—	1	Cap, Filler (Available from Cummins as Part Number 3088296)
17	850-0055	1	Washer, Lock – Spring (7/16")	40	309-0180	1	Valve, Thermostatic (Not Used on All Models)
18	130-3740	1	Bracket, Belt Guard	41	505-0084	1	* Nipple, Pipe (3/4" x 2-1/2")
19	821-5002-03	48	Screw, Locking – Hex Washer Head (1/4-20 x 1/2")	42	505-0166	1	* Tee, Pipe (3/4")
20	130-3735	1	Cover, Belt Guard	43	505-0130	1	* Plug, Pipe – Square Head (3/4-14)
21	130-3746	1	Cover, Belt Guard				
22	130-3745	1	Gasket, Fan Hub				
23	130-3312	2	Gasket, Sea Water Pump				

* Used on Some Early Models

Radiator

DFEB Spec J Through K, DFEC Spec C Through D, DFED Spec A, DFFB Begin Spec J



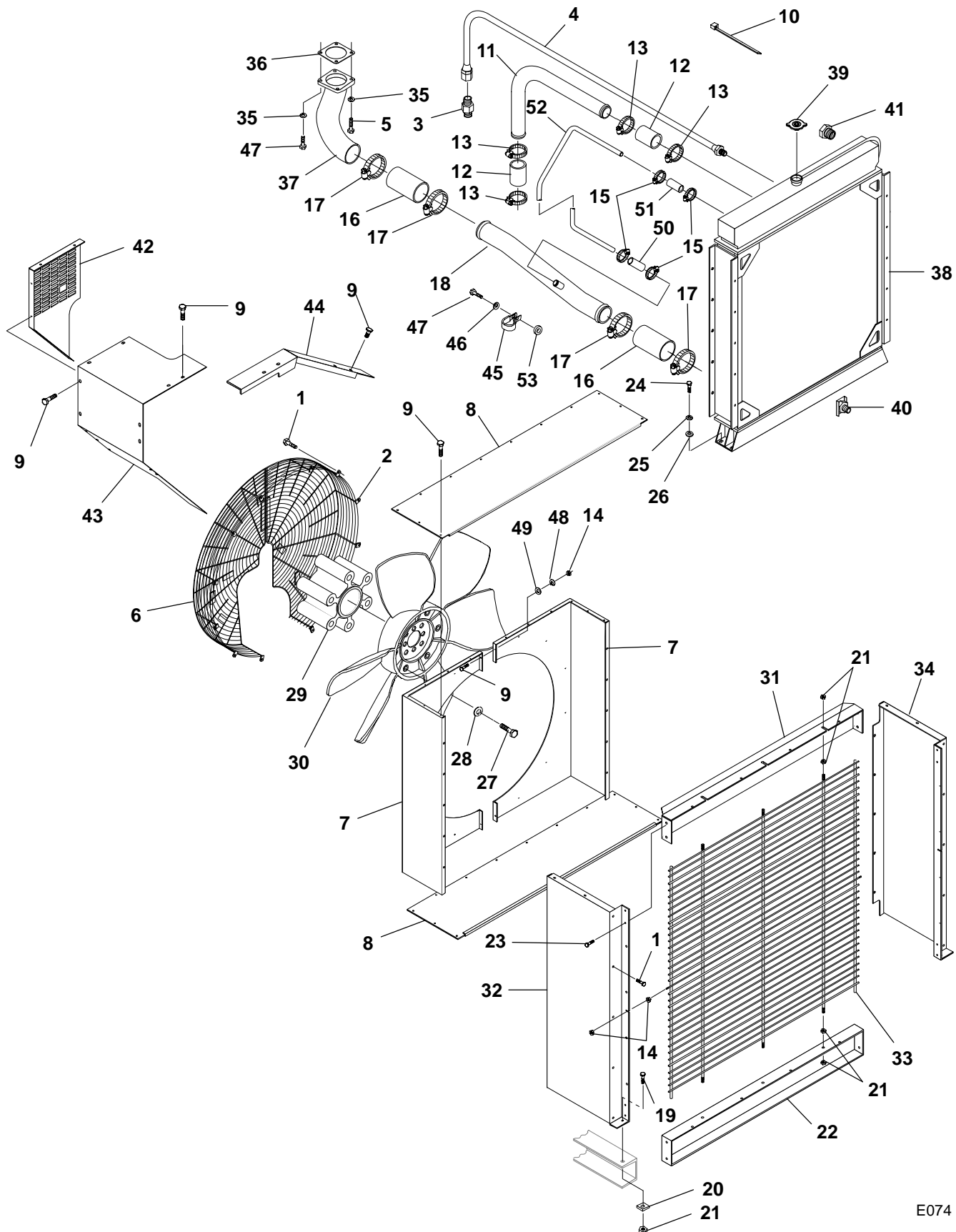
E074

Radiator

DFEB Spec J Through K, DFEC Spec C Through D, DFED Spec A, DFFB Begin Spec J

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0029	42	Screw, Self-Locking – Hex Washer Head (3/8–16 x 3/4")	25	403-2733-02	6	Washer, Bevel
2	130-3589-01	1	Guard, Fan – Right Side	26	870-0550-09	18	Nut, Flange Head (3/8–16)
3	502-0184	1	Connector, Male (1/4")	27	130-3596	1	Support, Grille – Lower
4	501-0554	1	Line, Flexible (47")	28	821-5003-01	8	Screw, Self-Locking – Hex Washer Head (5/16–18 x 1/2")
5	505-0084	1	Nipple, Pipe (3/4" x 2–1/2")	29	800-0133	4	Screw, Cap – Hex Head (5/8–11 x 1–3/4")
6	800-0051	2	Screw, Cap – Hex Head (3/8–16 x 1–1/4")	30	850-0070	4	Washer, Lock – Spring (5/8")
7	130-3589-02	1	Guard, Fan – Left Side	31	526-0112	4	Washer, Flat (5/8")
8	130-3591	2	Wrapper, Fan	32	800-0106	6	Screw, Cap – Hex Head (1/2–13 x 5–1/2")
9	130-3594	2	Shroud, Fan	33	526-0219	6	Washer, Flat (1/2")
10	821-5002-04	46	Screw, Self-Locking – Hex Washer Head (1/4–20 x 5/8")	34	130-4211-01	1	Spacer, Fan
11	332-1389	1	Tie, Cable (Quantity Used As Required)	35	130-4535	1	Fan, 8 Blade (42")
12	130-3593	2	Tube, Radiator – Inlet	36	130-3595	1	Support, Grille – Upper
13	503-1708	4	Hose, Radiator (2–1/2" ID x 4")	37	130-3592-02	1	Guard, Radiator – Left Side
14	503-1872-05	8	Clamp, Hose (3" ID)	38	130-3597	1	Grille
15	870-0550-05	6	Nut, Locking – Hex Flange Head (1/4–20)	39	130-3592-01	1	Guard, Radiator – Right Side
16	503-0249	1	Hose (1" ID x 6')	40	850-0050	4	Washer, Lock – Spring (3/8")
17	503-1872-01	2	Clamp, Hose (1–1/2")	41	130-3469	1	Gasket
18	502-0971	1	Connector, Hose	42	130-1030	1	Inlet, Water
19	505-0166	1	Tee, Pipe (3/4")	43	130-3587	1	Radiator (Includes Cap – Ref No. 44)
20	505-0130	1	Plug, Pipe – Square Head (3/4–14)	44	130-3588	1	Cap, Radiator
21	503-0856	2	Hose, Radiator (3–1/2" ID x 5–1/2")	45	504-0028	1	Cock, Drain
22	503-1872-07	4	Clamp, Hose (4" ID)	46	502-0153	2	Plug, Pipe – Hex (1/4–18)
23	130-3598	1	Tube, Radiator – Outlet	47	130-3601	1	Guard, Belt
24	821-0035	6	Screw, Self-Locking – Hex Washer Head (3/8–16 x 1–1/4")	48	130-3600	1	Guard, Belt
				49	130-3720	1	Guard, Belt
				50	518-0548-02	1	Clip, Retainer
				51	526-0021	1	Washer, Flat (17/64")
				52	800-0052	2	Screw, Cap – Hex Head (3/8–16 x 1–1/2")
				53	850-0114-05	6	Washer, Lock – Spring (1/4")
				54	526-0399-13	6	Washer, Flat (1/4")

Radiator **DFEB Spec L Through P, DFEC Spec E Through H, DFED Spec B Through E**

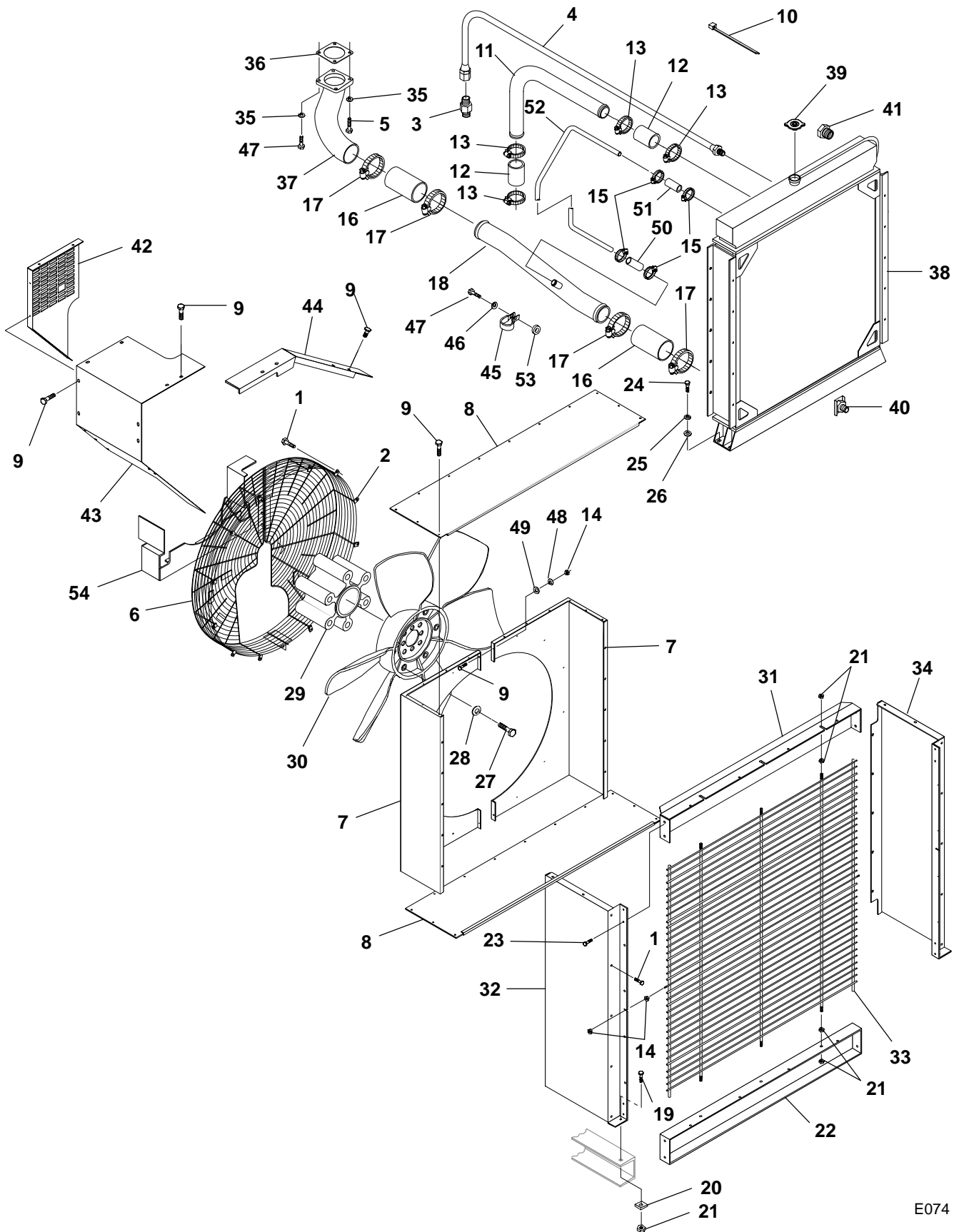


E074

Radiator
DFEB Spec L Through P, DFEC Spec E Through H, DFED Spec B Through E

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-5004-02	40	Screw, Self-Locking – Hex Washer Head (3/8–16 x 3/4")	25	850-0070	4	Washer, Lock – Spring (5/8")
2	130-3589-01	1	Guard, Fan – Right Side	26	526-0112	4	Washer, Flat (5/8")
3	502-0184	1	Connector, Male (1/4")	27	800-0105	6	Screw, Cap – Hex Head (1/2–13 x 5")
4	501-0554	1	Line, Flexible (47")	28	526-0219	6	Washer, Flat (1/2")
5	800-0051	2	Screw, Cap – Hex Head (3/8–16 x 1–1/4")	29	130-4211-01	1	Spacer, Fan
6	130-3589-02	1	Guard, Fan – Left Side	30	130-4535	1	Fan, 8 Blade (42")
7	130-3591	2	Wrapper, Fan	31	130-3595	1	Support, Grille – Upper
8	130-4621	2	Shroud, Fan	32	130-3592-02	1	Guard, Radiator – Left Side
9	821-5002-04	46	Screw, Self-Locking – Hex Washer Head (1/4–20 x 5/8")	33	130-3597	1	Grille
10	332-1389	1	Tie, Cable (Quantity Used As Required)	34	130-3592-01	1	Guard, Radiator – Right Side
11	130-3593	2	Tube, Radiator – Inlet	35	850-0050	4	Washer, Lock – Spring (3/8")
12	503-1708	4	Hose, Radiator (2–1/2" ID x 4")	36	130-3469	1	Gasket
13	503-1872-05	8	Clamp, Hose (3" ID)	37	130-1030	1	Inlet, Water
14	870-0550-05	6	Nut, Locking – Hex Flange Head (1/4–20)	38			Radiator (Includes Cap – Ref No. 39)
15	503-1872-01	4	Clamp, Hose (1–1/2")		130-3587	1	5 Row Core
16	503-0856	2	Hose, Radiator (3–1/2" ID x 5–1/2")		130-3587-01	1	3 Row Core
17	503-1872-07	4	Clamp, Hose (4" ID)	39	130-3588	1	Cap, Radiator
18	130-4620	1	Tube, Radiator – Outlet	40	504-0028	1	Cock, Drain
19	821-0035	6	Screw, Self-Locking – Hex Washer Head (3/8–16 x 1–1/4")	41	502-0153	2	Plug, Pipe – Hex (1/4–18)
20	403-2733-02	6	Washer, Bevel	42	130-3601	1	Guard, Belt
21	870-0550-09	18	Nut, Flange Head (3/8–16)	43	130-3600	1	Guard, Belt
22	130-3596	1	Support, Grille – Lower	44	130-3720	1	Guard, Belt
23	821-5003-01	8	Screw, Self-Locking – Hex Washer Head (5/16–18 x 1/2")	45	518-0548-20	2	Clip, Retainer
24	800-0133	4	Screw, Cap – Hex Head (5/8–11 x 1–3/4")	46	526-0029	2	Washer, Flat (3/8")
				47	800-0052	4	Screw, Cap – Hex Head (3/8–16 x 1–1/2")
				48	850-0114-05	6	Washer, Lock – Spring (1/4")
				49	526-0399-13	6	Washer, Flat (1/4")
				50	503-1779	1	Hose, Radiator – Bulk (1" ID) (Order by the Foot – 1 Foot Required)
				51	503-1634	1	Hose, Radiator (1" ID x 4")
				52	130-4619	1	Tube, Fill Line
				53	130-3660	2	Spacer, Shock Absorb (1/2" ID x 3/8" Thick)

Radiator **DFEB Begin Spec R, DFEC Begin Spec J, DFED Begin Spec F**

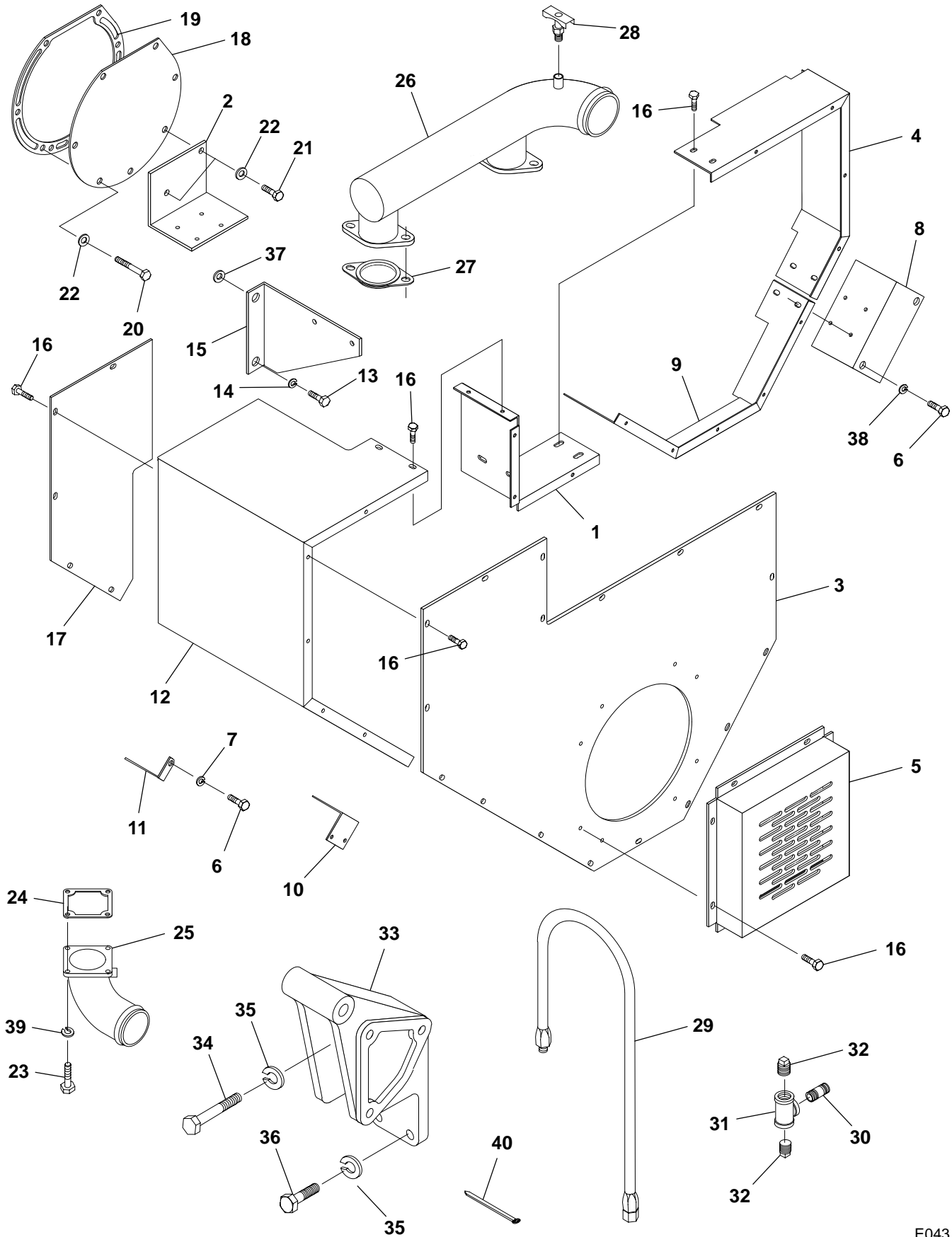


E074

Radiator
DFEB Begin Spec R, DFEC Begin Spec J, DFED Begin Spec F

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-5004-02	40	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")	25	850-0070	4	Washer, Lock – Spring (5/8")
2	130-5367-03	1	Guard, Fan – Right Side	26	526-0112	4	Washer, Flat (5/8")
3	502-0184	1	Connector, Male (1/4")	27	800-0105	6	Screw, Cap – Hex Head (1/2-13 x 5")
4	501-0554	1	Line, Flexible (47")	28	526-0219	6	Washer, Flat (1/2")
5	800-0051	2	Screw, Cap – Hex Head (3/8-16 x 1-1/4")	29	130-4211-01	1	Spacer, Fan
6	130-5367-04	1	Guard, Fan – Left Side	30	130-4535	1	Fan, 8 Blade (42")
7	130-3591	2	Wrapper, Fan	31	130-3595	1	Support, Grille – Upper
8	130-4621	2	Shroud, Fan	32	130-3592-02	1	Guard, Radiator – Left Side
9	821-5002-04	46	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")	33	130-3597	1	Grille
10	332-1389	A/R	Tie, Cable (Quantity Used As Required)	34	130-3592-01	1	Guard, Radiator – Right Side
11	130-3593	2	Tube, Radiator – Inlet	35	850-0050	4	Washer, Lock – Spring (3/8")
12	503-1708	4	Hose, Radiator (2-1/2" ID x 4")	36	130-3469	1	Gasket
13	503-1872-05	8	Clamp, Hose (3" ID)	37	130-1030	1	Inlet, Water
14	870-0550-05	6	Nut, Locking – Hex Flange Head (1/4-20)	38			Radiator (Includes Cap – Ref No. 39)
15	503-1872-01	4	Clamp, Hose (1-1/2")		130-3587	1	5 Row Core
16	503-0856	2	Hose, Radiator (3-1/2" ID x 5-1/2")		130-3587-01	1	3 Row Core
17	503-1872-07	4	Clamp, Hose (4" ID)	39	130-3588	1	Cap, Radiator
18	130-4620	1	Tube, Radiator – Outlet	40	504-0028	1	Cock, Drain
19	821-0035	6	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1-1/4")	41	502-0153	2	Plug, Pipe – Hex (1/4-18)
20	403-2733-02	6	Washer, Bevel	42	130-3601	1	Guard, Belt
21	870-0550-09	18	Nut, Flange Head (3/8-16)	43	130-3600	1	Guard, Belt
22	130-3596	1	Support, Grille – Lower	44	130-3720	1	Guard, Belt
23	821-5003-01	8	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")	45	518-0548-20	2	Clip, Retainer
24	800-0133	4	Screw, Cap – Hex Head (5/8-11 x 1-3/4")	46	526-0029	2	Washer, Flat (3/8")
				47	800-0052	4	Screw, Cap – Hex Head (3/8-16 x 1-1/2")
				48	850-0114-05	6	Washer, Lock – Spring (1/4")
				49	526-0399-13	6	Washer, Flat (1/4")
				50	503-1779	1	Hose, Radiator – Bulk (1" ID) (Order by the Foot – 1 Foot Required)
				51	503-1634	1	Hose, Radiator (1" ID x 4")
				52	130-4619	1	Tube, Fill Line
				53	130-3660	2	Spacer, Shock Absorb (1/2" ID x 3/8" Thick)
				54	130-5368-02	1	Guard, Damper

Remote Radiator

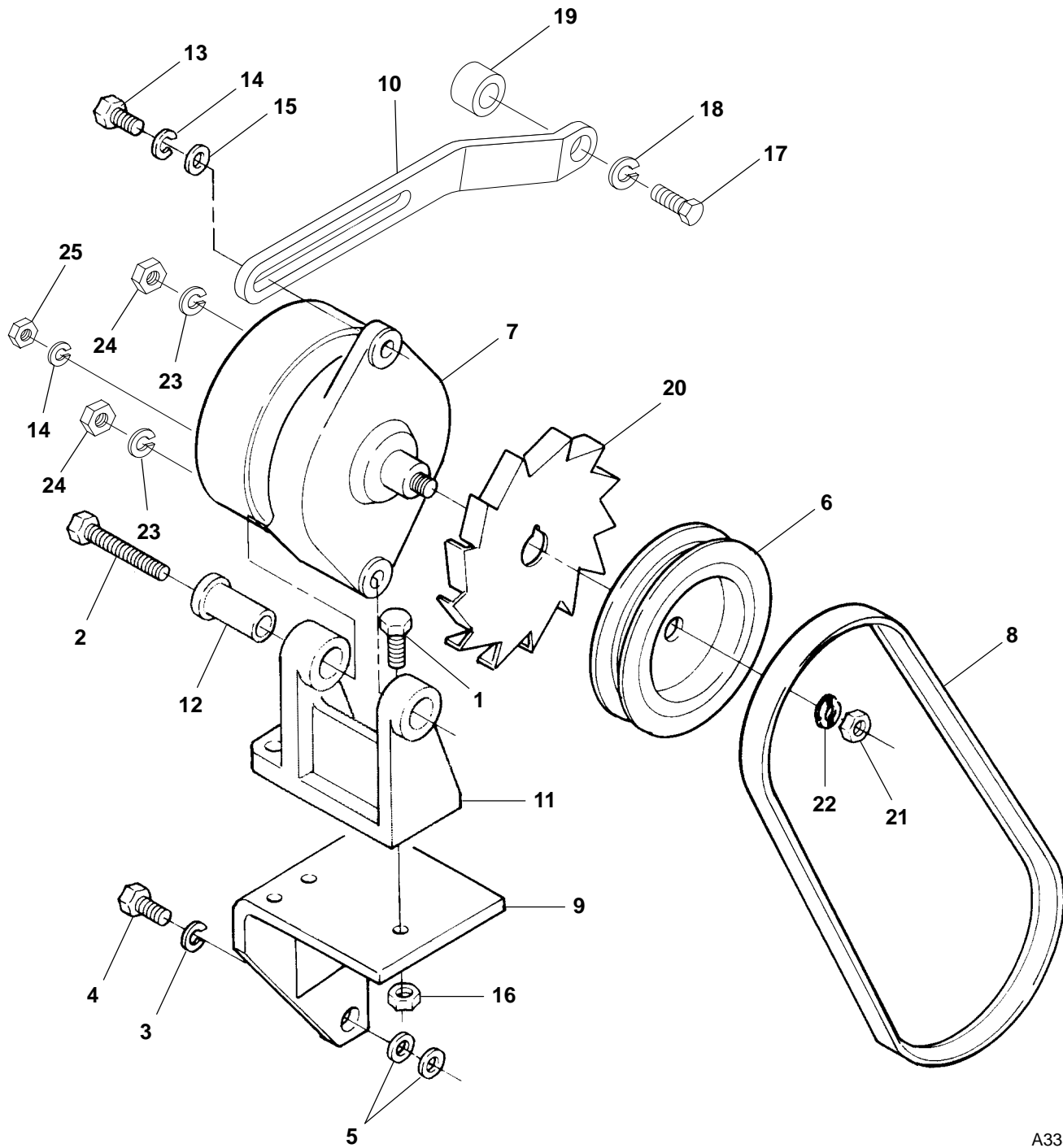


E043

Remote Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3729	1	Guard, Belt	22	526-0174	7	* Washer, Flat (3/8")
2	130-3744	1	Bracket, Belt Guard	23	800-0050	4	Screw, Cap – Hex Head (3/8-16 x 1")
3	130-3733	1	Cover, Belt Guard	24	130-3469	1	Gasket, Water Connection
4	130-3730	1	Guard, Belt	25	130-3478	1	Connection, Water Inlet
5	130-3734	1	Cover, Belt Guard	26	130-3475	1	* Connection, Water Transfer
6	800-0310-64	3	Screw, Cap – Hex Head (1/2-13 x 1")	27	130-3495	2	* Gasket, Water Connection
7	850-0114-09	3	Washer, Lock – Spring (1/2")	28	504-0003	1	Cock, Drain
8	130-3737	1	Bracket, Belt Guard	29	501-0554	1	Line, Flex Fuel
9	130-3731	1	Guard, Belt	30	505-0084	1	+ Nipple, Pipe (3/4" x 2-1/2")
10	130-3738	1	Bracket, Belt Guard	31	505-0166	1	+ Tee, Pipe (3/4")
11	130-3739	1	Bracket, Belt Guard	32	505-0130	2	+ Plug, Pipe – Square Head (3/4-14)
12	130-3732	1	Guard, Belt	33	191-1878	1	# Support, Alternator
13	800-0071	1	Screw, Cap – Hex Head (1/2-13 x 1")	34	800-0061	2	# Screw, Cap – Hex Head (3/8-16 x 3-3/4")
14	850-0055	1	Washer, Lock – Spring (7/16")	35	850-0050	4	# Washer, Lock – Spring (3/8")
15	130-3740	1	Bracket, Belt Guard	36	800-0050	2	# Screw, Cap – Hex Head (3/8-16 x 1")
16	821-5002-03	48	Screw, Locking – Hex Washer Head (1/4-20 x 1/2")	37	526-0249	2	Washer, Flat (7/16")
17	130-3735	1	Cover, Belt Guard	38	626-0399-25	3	Washer, Flat (1/2")
18	130-3746	1	* Cover, Belt Guard	39	850-0050	4	Washer, Lock – Spring (3/8")
19	130-3745	1	* Gasket, Fan Hub	40	332-1389	1	Tie, Cable
20	800-0062	5	* Screw, Cap – Hex Head (3/8-16 x 4")				* – Parts Used On Generator Sets With Dry Manifold
21	800-0051	2	* Screw, Cap – Hex Head (3/8-16 x 1-1/4")				# – Parts Used on Generator Sets With Wet Manifold
							+ – Used on Some Early Models

Alternator 45 Amp

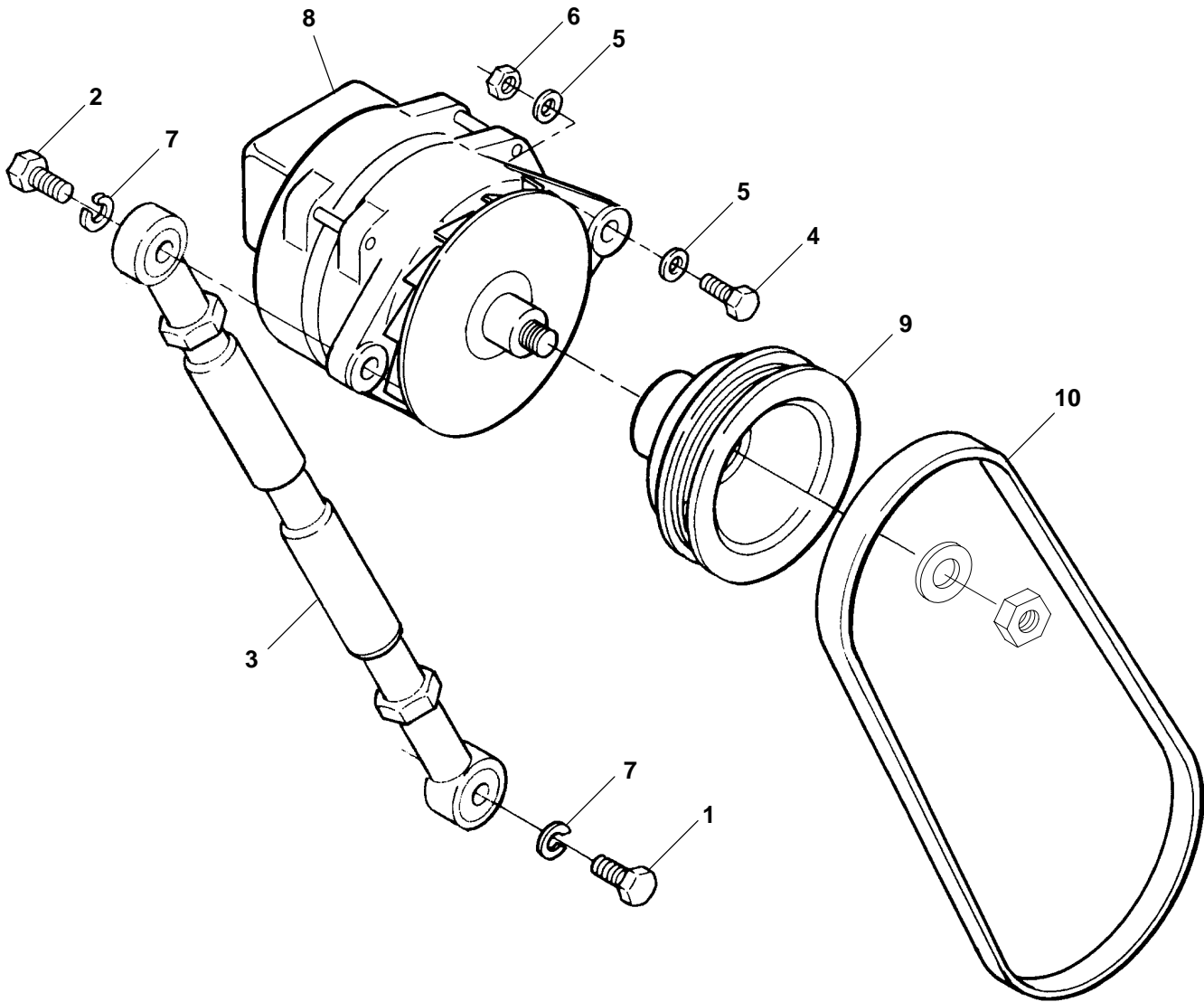


A333

Alternator 45 Amp

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0022	2	Screw, Locking – Hex Washer Head (5/16–18 x 1–1/4")	11	191-1990	1	Support, Alternator
2	718-1067	1	Screw, Cap – Hex Head (M10 x 90mm)	12	191-1989-07	1	Spacer, Mounting
3	850-0060	2	Washer, Lock – Spring (1/2")	13	800-2059	1	Screw, Cap – Hex Head (M8 x 30mm)
4	800-0092	2	Screw, Cap – Hex Head (1/2–13 x 1–1/2")	14	850-2008	2	Washer, Lock – Spring (M8)
5	526-0353	2	Washer, Flat (1/2")	15	526-0030	1	Washer, Flat (3/8")
6	191-1984	1	Pulley	16	870-0257	3	Nut, Locking – Hex (5/16")
7	191-1983-02	1	Alternator (24 Volt DC, 45 Amp) (Includes Voltage Regulator, M16 Nut, and Spring Washer – Ref No. 21 and 22)	17	800-0073	1	Screw, Cap – Hex Head (7/16–14 x 1–1/2")
	191-2121	1	Voltage Regulator (Not Illustrated)	18	850-0055	1	Washer, Lock – Spring (7/16")
8	511-0161-05	1	Belt (5 Rib)	19	191-1888	1	Spacer (5/8" Long) (Used on Some Early Models)
9	191-1987	1	Bracket, Mounting	20	191-1981	1	Fan, Alternator
10	191-2148	1	Bracket, Adjusting	21	870-2161	1	Nut, Hex (M16)
				22	851-0039	1	Washer, Spring (M16)
				23	850-2005	2	Washer, Lock – Spring (M5)
				24	860-2006	2	Nut, Hex (M5)
				25	860-2008	1	Nut, Hex (M8)

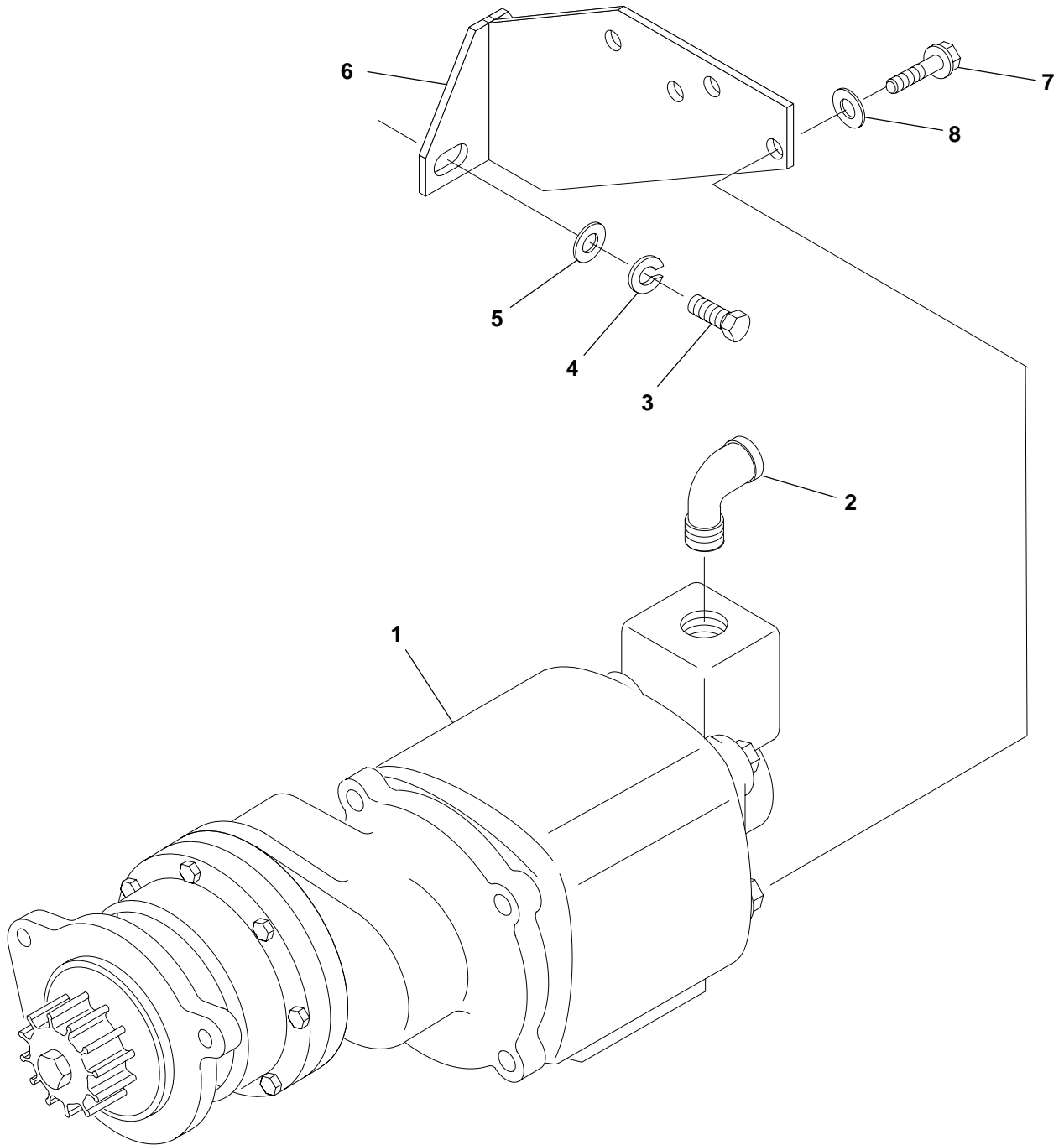
Alternator 75 Amp



E305

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0236	1	Screw, Cap – Hex Head (1/2-13 x 1-3/4")	6	870-0452	1	Nut, Locking – Hex (1/2-20)
2	800-0092	1	Screw, Cap – Hex Head (1/2-13 x 1-1/2")	7	850-0060	2	Washer, Lock – Spring (1/2")
3	191-1879	1	Link, Alternator Adjusting	8	191-1926-02	1	Alternator (24 Volt DC, 75 Amp) (Includes 5/8-18 Nut and Washer)
4	800-0237	1	Screw, Cap – Hex Head (1/2-20 x 6-1/2")	9	130-3254	1	Pulley
5	526-0353	2	Washer, Flat (1/2")	10	511-0161	1	Belt (5 Rib)

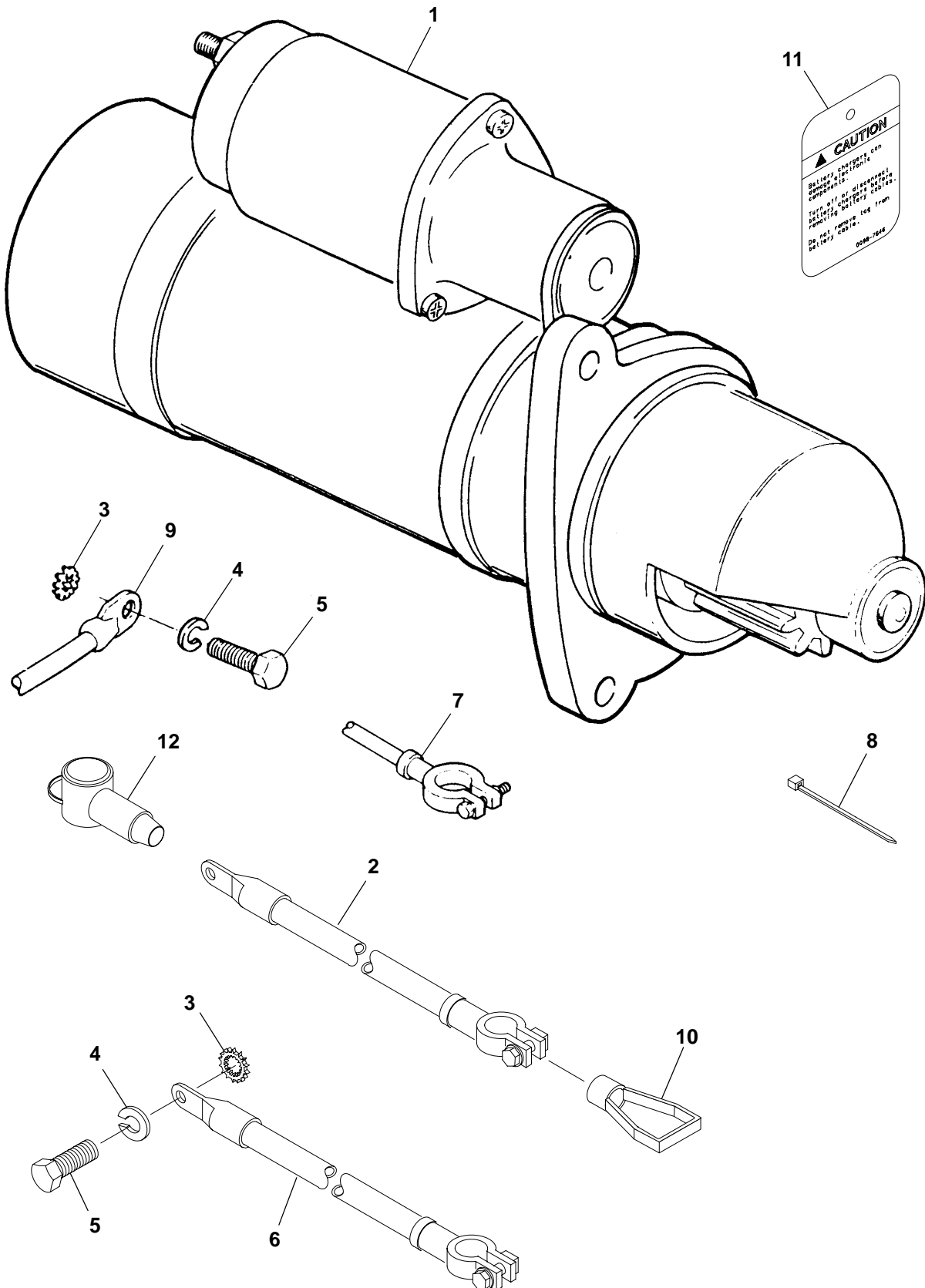
Air Starter



A300

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	127-0390-01	1	Motor, Air Starting	5	526-0380	2	Washer, Flat (1/2")
2	502-1054-08	1	Elbow, Street Pipe	6	127-0393	1	Brace, Starting Motor
3	800-0091	2	Screw, Cap – Hex head (1/2-13 x 1-1/4")	7	800-2526	2	Screw, Cap – Hex Head (M10 x 20mm)
4	850-0105	2	Washer, Lock (1/2")	8	526-2135	2	Washer, Flat (M10)

Electric Starter

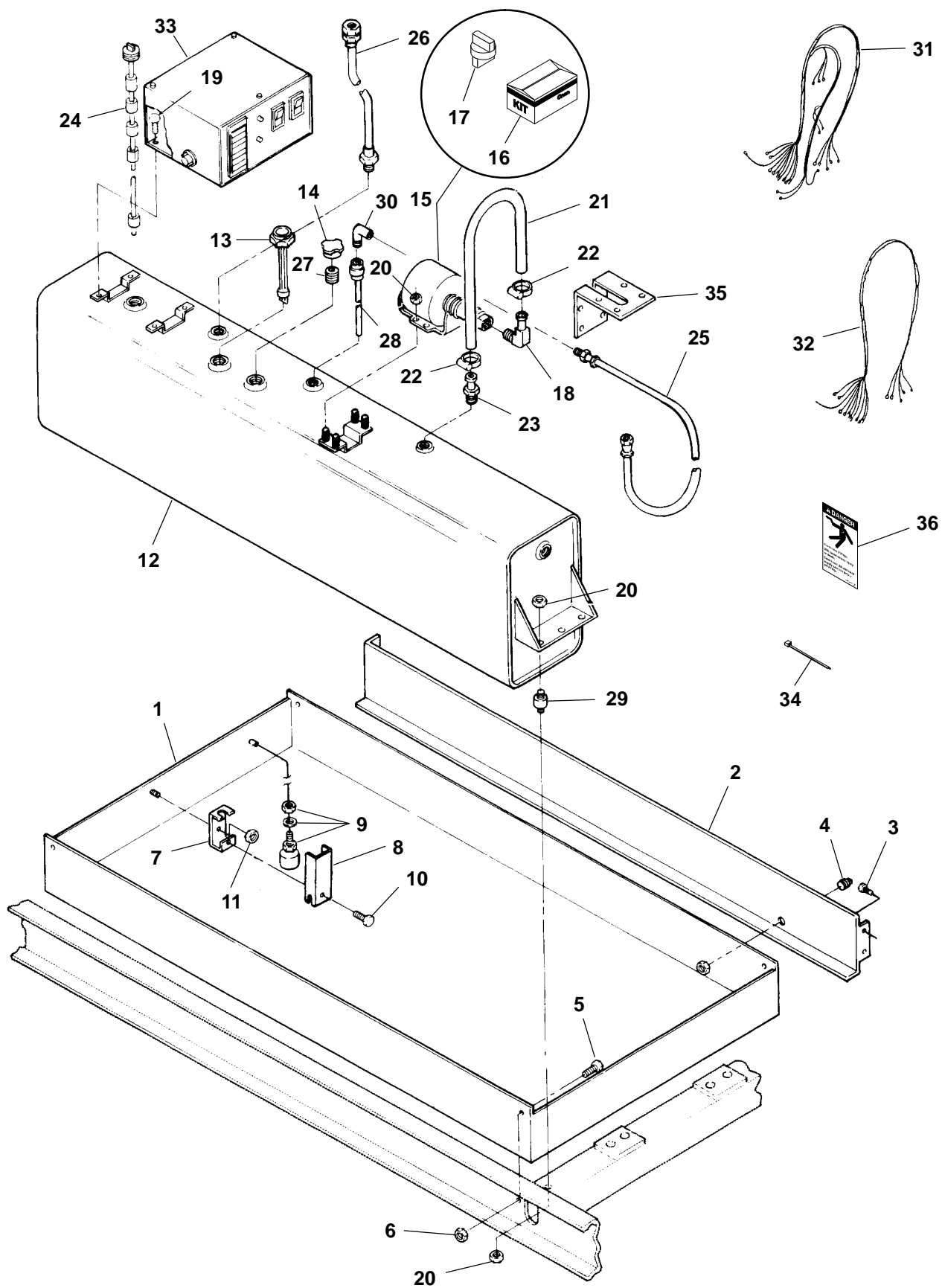


A334

Electric Starter

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-2135	1	Starter (24VDC)	7			Cable, Battery – Jumper
2			Cable, Battery (44")				(Includes One Battery
	416-0444	1	DFEC Spec J Through P				Cable Boot (Ref No. 10)
			DFED Spec C Through H	416-0446	1		12-1/2"
			DFED Spec A Through E				DFEC Spec J Through P
			DFFB Begin Spec J				DFED Spec C Through H
	416-0444	2	DFEB Begin Spec R				DFED Spec A Through E
			DFEC Begin Spec J	416-1076	1		DFFB Begin Spec J
			DFED Begin Spec F				12"
	416-1088	1	DFEB Begin Spec S				DFEB Begin Spec R
			DFEC Begin Spec K				DFEC Begin Spec J
			DFED Begin Spec G				DFED Begin Spec F
3	856-0013	2	Washer, Lock – EIT (1/2")	416-1097	1		DFEB Begin Spec S
4	850-0060	2	Washer, Lock – Spring (1/2")				DFEC Begin Spec K
5	800-0090	2	Screw, Cap – Hex Head				DFED Begin Spec G
			(1/2-13 x 1")	8	332-0941	A/R	Tie, Cable (Quantity Used As
6	416-0960	1	Cable, Battery (29")				Required)
			DFEC Spec J Through P	9	416-0632	1	Cable, Battery – Starter to
			DFED Spec C Through H				Ground (14-1/2")
			DFED Spec A Through E	10	416-1019	1	Boot, Battery Cable (Red)
			DFFB Begin Spec J	11	098-7646	1	Tag, Battery
				12	416-1084	1	Boot, Starter Cable (Red)

Day Tank and Rupture Basin **Models with Fuel Transfer Pump and Automatic Pump Control**



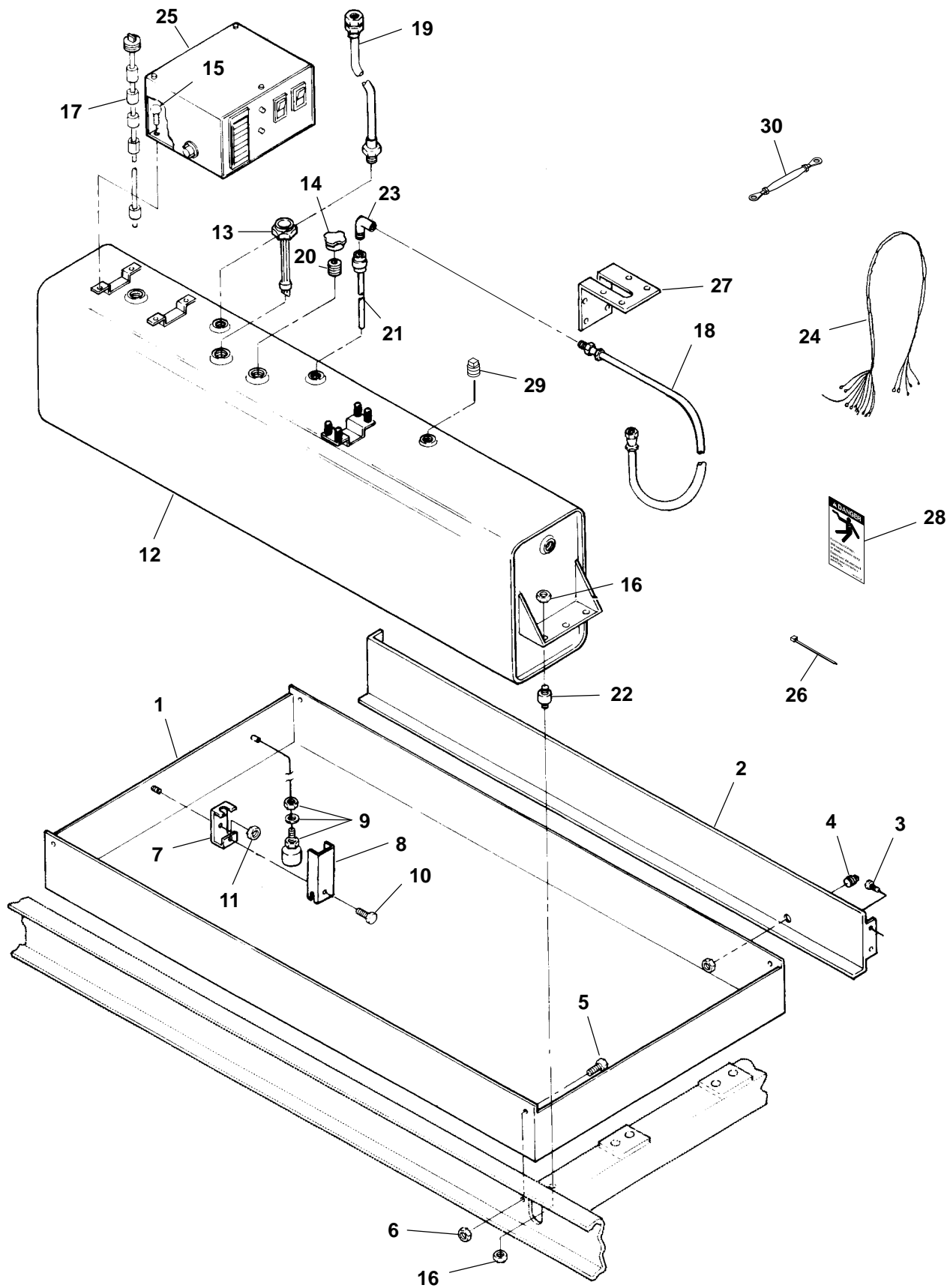
Day Tank and Rupture Basin

Models with Fuel Transfer Pump and Automatic Pump Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	159-1231	1	Basin, Rupture	19	821-5002-04	4	Screw, Locking – Hex Washer Head (1/4-20 x 5/8")
2	159-1232	1	Bracket, Mounting	20	870-0212	16	Nut, Locking – Hex Head (1/4-20)
3	815-0236	4	Screw, Thread Forming – Hex Head (5/16-18 x 5/8")	21	503-1660-02	1	Hose, Fuel – Pump to Tank (5/8" ID x 20")
4	505-0055	1	Plug, Pipe – Square Head (1/4")	22	503-0183	2	Clamp, Hose
5	821-0016	4	Screw, Locking – Hex Washer Head (5/16-18 x 3/4")	23	502-0943	1	Connector, Hose
6	870-0257	4	Nut, Locking – Hex Head (5/16")	24	308-0913	1	Switch, 5 Float
7	319-0490	1	* Bracket, Switch	25	501-0084	1	Line, Fuel – Flexible (Fuel Supply) (36")
8	319-0489	1	* Cover, Basin Switch	26	501-0552	1	Line, Fuel – Flexible (Fuel Return) (27")
9	308-0916	1	* Switch, Basin (Includes Washer and Nut)	27	505-0172	1	Nipple, Close (2")
10	821-0010	1	* Screw, Locking – Hex Washer Head (1/4-20 x 1/2")	28	415-0566-02	1	Pipe, Suction
11	870-0212	1	* Nut, Locking – Hex Head (1/4-20)	29	402-0610	6	Isolator, Vibration
12	415-0616	1	Tank, Day (46 Gallon)	30	505-0050	1	Elbow, Street – 90 Degree (1/2")
13	415-0565-02	1	Gauge, Level – Liquid	31	338-2397	1	Harness, Wiring (5 Wire, 40") (P103-GND, 1, 3, 4, White to TB1-3, 5, 6, 7, 8)
14	159-1208	1	Cap, Day Tank	32	338-2511	1	Harness, Control (2 Wire, 100") (TB1-19, 20 to S1 and GND)
15	399-0117	1	Pump, Fuel Transfer (P103) (Includes Pump Repair Kit and Coupler – Ref No. 16 and 17)	33	—	1	Control, Day Tank (See Page 66 for Components)
16	399-0121	1	Kit, Fuel Transfer Pump (Includes Lip Seal, Four Carbon Bearings, Gasket, Drive Gear Assembly, Idle Gear Assembly, and Coupler [Ref No. 17])	34	332-1445	A/R	Tie, Cable
17	399-0122	1	Coupler, Fuel Transfer Pump	35	149-2275	1	Bracket, Mounting – Fuel Filter
18	502-0942	1	Elbow, Hose – 90 Degree (5/8" ID Hose x 3/8" Pipe)	36	098-5387	1	Label, Danger

* Not Used on All Models.

Day Tank and Rupture Basin **Models with Automatic Fuel Transfer Pump Control**

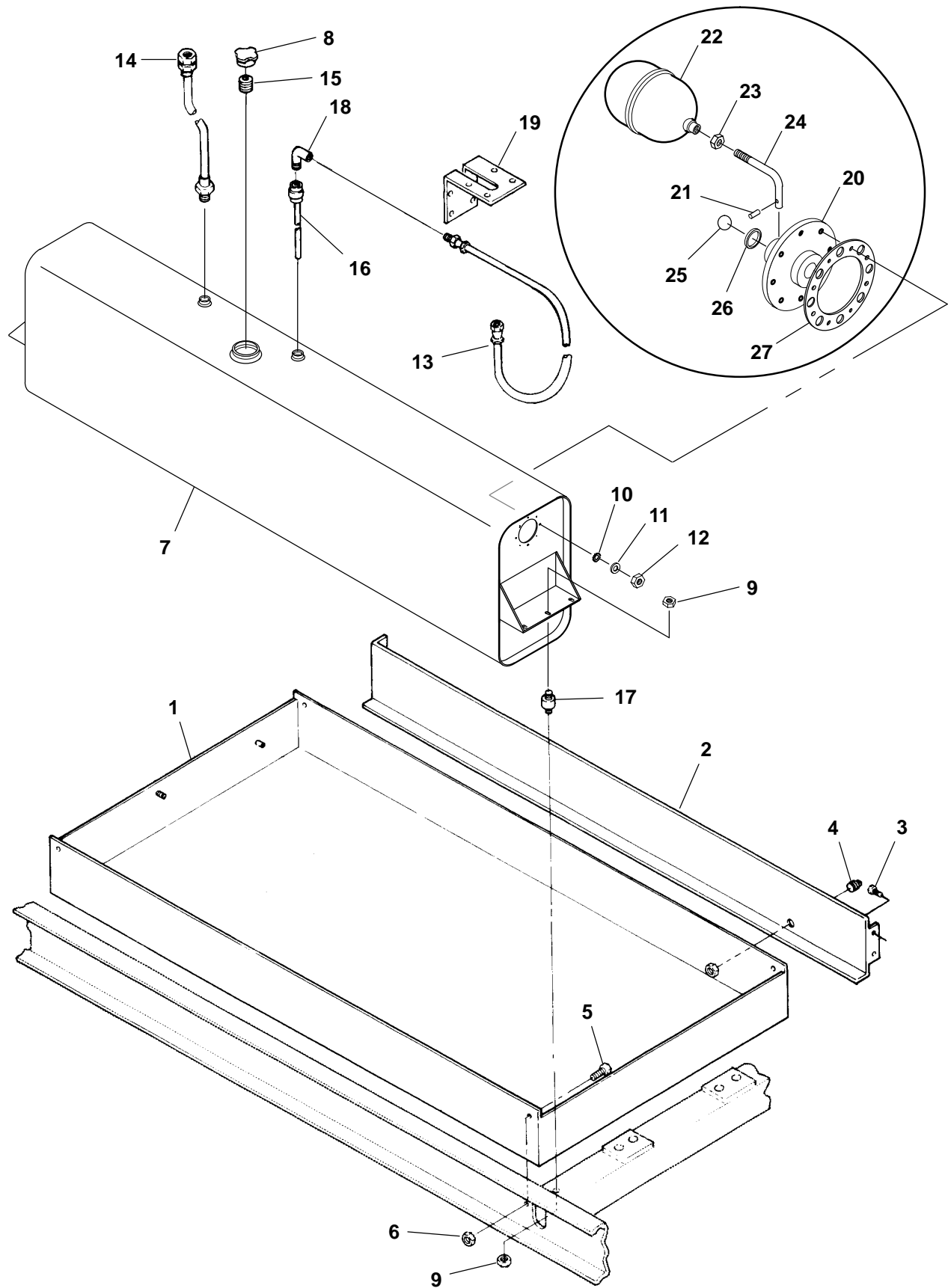


Day Tank and Rupture Basin Models with Automatic Fuel Transfer Pump Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	159-1231	1	Basin, Rupture	16	870-0212	12	Nut, Locking – Hex Head (1/4-20)
2	159-1232	1	Bracket, Mounting	17	308-0913	1	Switch, 5 Float
3	815-0236	4	Screw, Thread Forming – Hex Head (5/16-18 x 5/8")	18	501-0084	1	Line, Fuel – Flexible (Fuel Supply) (36")
4	505-0055	1	Plug, Pipe – Square Head (1/4")	19	501-0552	1	Line, Fuel – Flexible (Fuel Return) (27")
5	821-0016	4	Screw, Locking – Hex Washer Head (5/16-18 x 3/4")	20	505-0172	1	Nipple, Close (2")
6	870-0257	4	Nut, Locking – Hex Head (5/16")	21	415-0566-02	1	Pipe, Suction
7	319-0490	1	* Bracket, Switch	22	402-0610	6	Isolator, Vibration
8	319-0489	1	* Cover, Basin Switch	23	505-0050	1	Elbow, Street – 90 Degree (1/2")
9	308-0916	1	* Switch, Basin (Includes Washer and Nut)	24	338-2511	1	Harness, Control (2 Wire, 100") (TB1-19, 20 to S1 and GND)
10	821-0010	1	* Screw, Locking – Hex Washer Head (1/4-20 x 1/2")	25	—	1	Control, Day Tank (See Page 66 for Components)
11	870-0212	1	* Nut, Locking – Hex Head (1/4-20)	26	332-1445	A/R	Tie, Cable
12	415-0616	1	Tank, Day (46 Gallon)	27	149-2275	1	Bracket, Mounting – Fuel Filter
13	415-0565-02	1	Gauge, Level – Liquid	28	098-5387	1	Label, Danger
14	159-1208	1	Cap, Day Tank	29	505-0110	1	Plug, Square Head (3/8")
15	821-5002-04	4	Screw, Locking – Hex Washer Head (1/4-20 x 5/8")	30	337-2402	1	Wire, Ground

* Not Used on All Models.

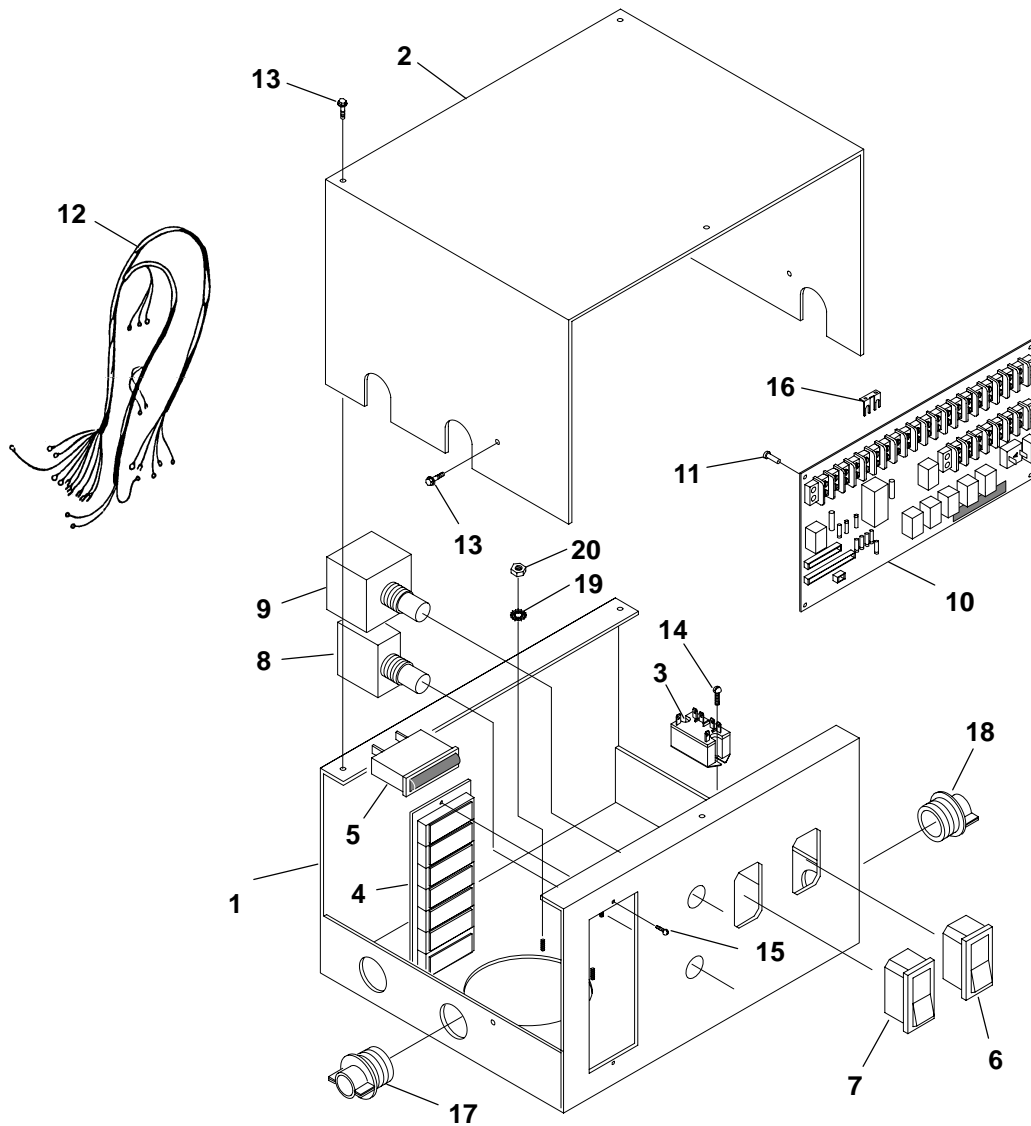
Day Tank and Rupture Basin Models with Float Valve



Day Tank and Rupture Basin Models with Float Valve

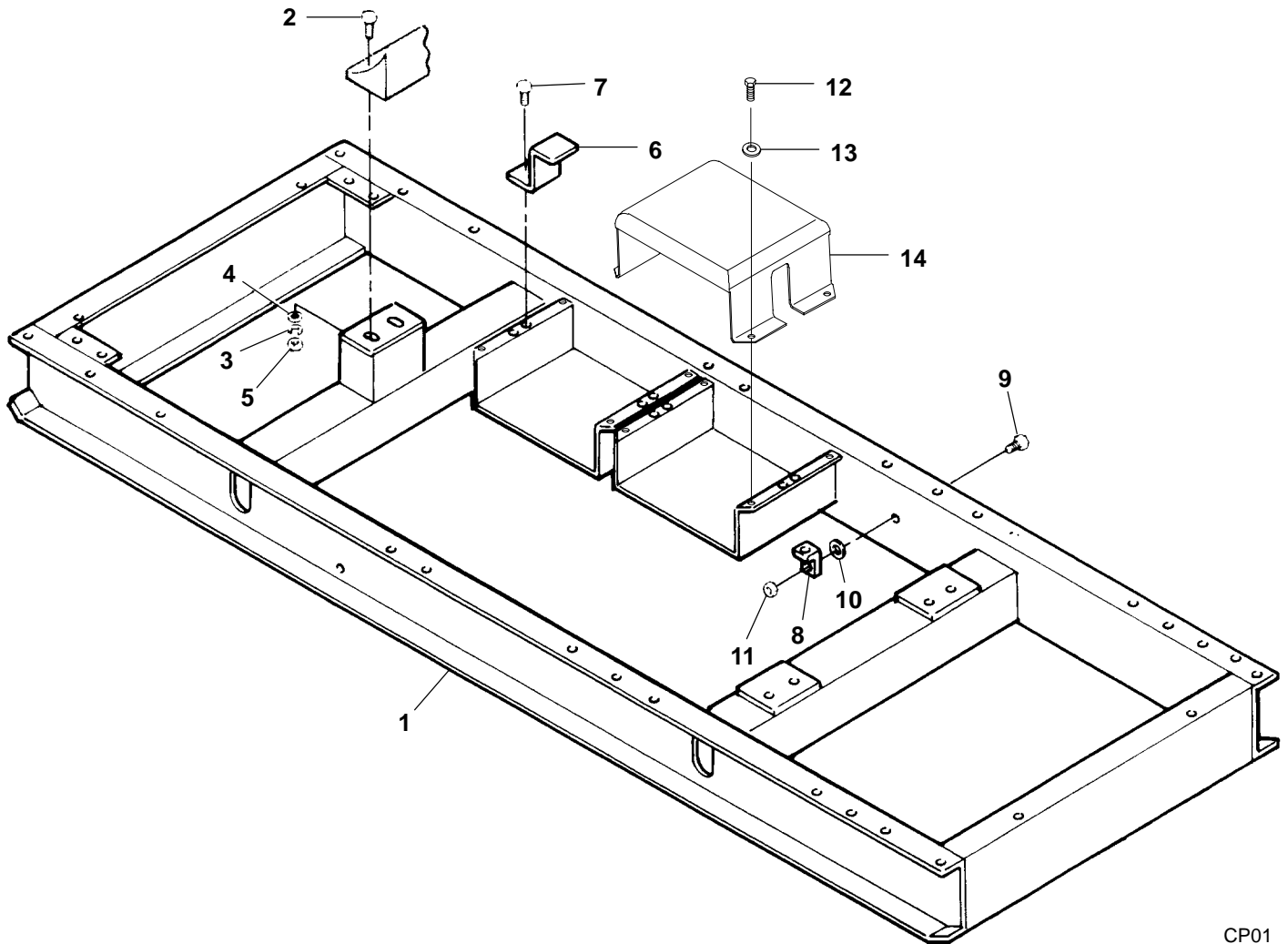
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	159-1231	1	Basin, Rupture	14	501-0552	1	Line, Fuel – Flexible (Fuel Return) (27")
2	159-1232	1	Bracket, Mounting	15	505-0172	1	Nipple, Close (2")
3	815-0236	4	Screw, Thread Forming – Hex Head (5/16–18 x 5/8")	16	415-0566-02	1	Pipe, Suction
4	505-0055	1	Plug, Pipe – Square Head (1/4")	17	402-0610	6	Isolator, Vibration
5	821-0016	4	Screw, Locking – Hex Washer Head (5/16–18 x 3/4")	18	505-0050	1	Elbow, Street – 90 Degree (1/2")
6	870-0257	4	Nut, Locking – Hex Head (5/16")	19	149-2275	1	Bracket, Mounting – Fuel Filter
7	415-0680	1	Tank, Day (46 Gallon)	20	415-0650-01	1	Body, Float Valve
8	159-1208	1	Cap, Day Tank	21	415-0651-19	1	Pin, Roll
9	870-0212	8	Nut, Locking – Hex Head (1/4–20)	22	415-0652	1	Float, Ball
10	853-1008	8	Washer, Lock W/ET (#10)	23	864-0011	1	Nut, Jam (1/4–20)
11	526-0008	8	Washer, Flat (#10)	24	415-0654	1	Arm, Float
12	867-0028	8	Nut, Hex (10–32)	25	415-0655	1	Ball, Steel
13	501-0084	1	Line, Fuel – Flexible (Fuel Supply) (36")	26	415-0656-21	1	Seal, Rectangular Ring
				27	415-0660	1	Gasket, Cover Plate

Day Tank Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	625-2141-01	1	Control, Fuel Tank – Complete (Includes Parts Listed Below)	11	870-0458	4	Spacer, Board – Printed Circuit
1	319-0486	1	Box, Control	12	338-2382	1	Harness, Wiring – Control Box (S102, K130, and S111 to CB101, CB107, CHASSIS, and TB1)
2	319-0485	1	Cover, Control Box	13	815-0350	5	Screw, Self-Tapping – Slotted Hex Washer Head (10-32 x 3/8")
3	307-2677-02	1	Relay, Pump (K130)	14	812-0075	2	Screw, Machine – Round Head (8-32 x 1/4")
4	322-0403-02	1	Light Assembly, Indicator – Seven Light (Includes Wiring Harness)	15	815-0385	2	Screw, Machine, Round Head (6-32 x 1/2")
5	322-0369-02	1	Lamp, Indicator – Replacement	16	332-2605	2	Jumper, Terminal
6	308-0912	1	Switch, Rocker (On/Off)	17	331-0027	2	Connector, Romex
7	308-0852	1	Switch, Rocker (Test/Reset) (S111)	18	331-0042	1	Connector, Knockout
8	320-1653	1	Breaker, Circuit – DC (CB107)	19	856-0002	1	Washer, Lock W/EIT (#8)
9	320-1654	1	Breaker, Circuit – AC (CB101)	20	860-0008	1	Nut, Hex (8-32)
10	300-3464	1	Board, Printed Circuit – Fuel Tank Control				

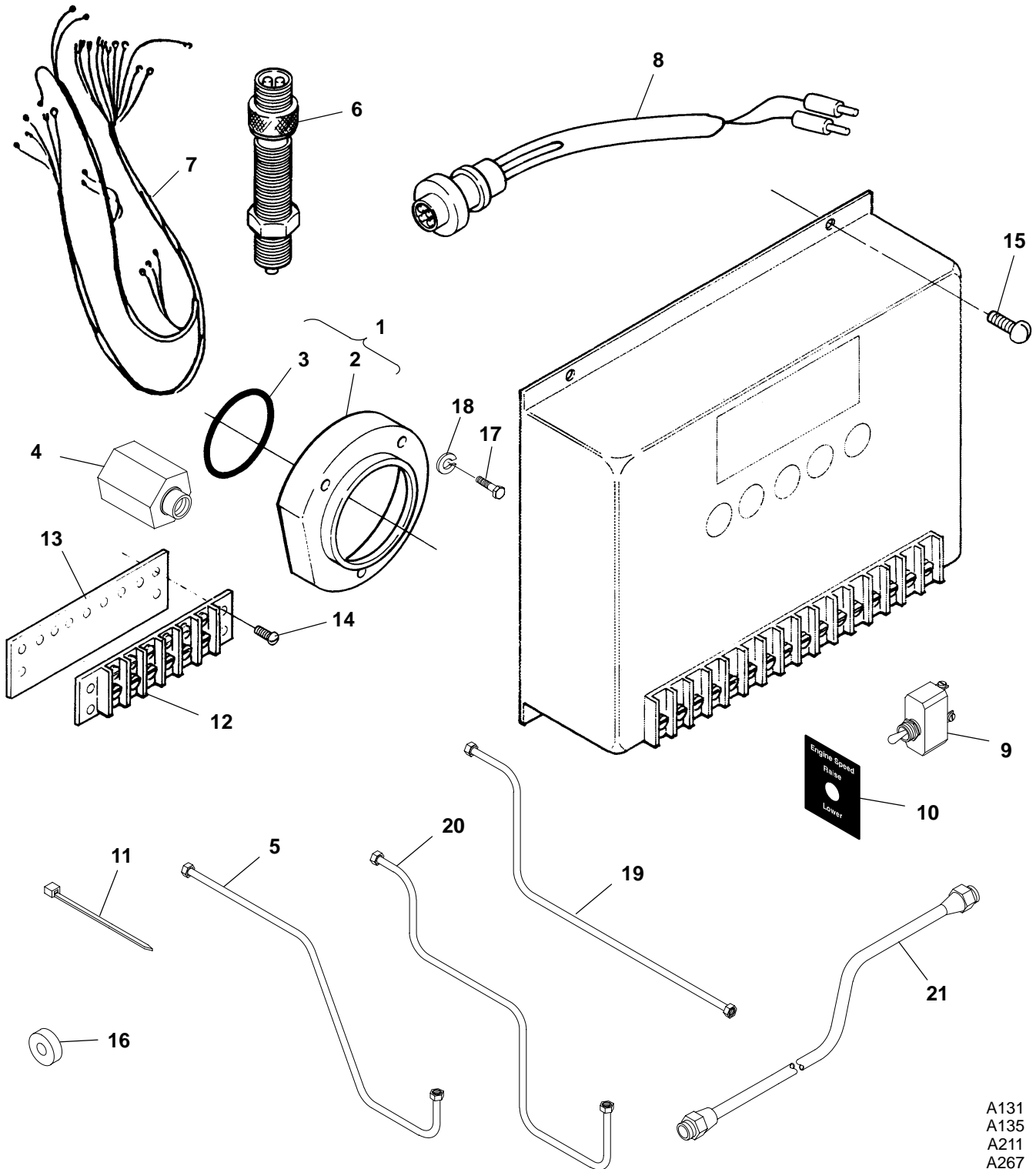
Skid



CP01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-2985	1	Skid DFEB Spec J DFEC Spec C DFED Spec A Through C DFFB Begin Spec J	9	800-0026	1	Screw, Cap (5/16-18 x 3/4") (DFEB Spec J, DFEC Spec C, DFED Spec A Through C, DFFB Begin Spec J)
	403-3748		DFEB Spec K Through P DFEC Spec D Through H DFED Spec A Through E DFFB Begin Spec L	10	856-0008	1	Washer, Lock (EIT) (5/16") (DFEB Spec J, DFEC Spec C, DFED Spec A Through C, DFFB Begin Spec J)
	403-4528-02		DFEB Begin Spec R DFEC Begin Spec J DFED Begin Spec F	11	870-0257	1	Nut, Hex - Self-Locking (5/16-18) (DFEB Spec J, DFEC Spec C, DFFB Begin Spec J)
2	800-0156	2	Screw, Cap - Hex Head (3/4-10 x 1-1/4")	12	821-5004-02	8	Screw, Cap - Hex Head (3/8-16 x 3/4") (DFEB Begin Spec R, DFEC Begin Spec J, DFED Begin Spec F)
3	850-0079	2	Washer, Lock - Spring (3/4")	13	526-0399-42	8	Washer, Flat (3/8") (DFEB Begin Spec R, DFEC Begin Spec J, DFED Begin Spec F)
4	526-0238	2	Washer, Flat (3/4")	14	416-1068	2	Cover, Battery Tray (DFEB Begin Spec R, DFEC Begin Spec J, DFED Begin Spec F)
5	862-0008	2	Nut, Hex (3/4-10)				
6	416-0850	4	Bracket, Battery				
7	800-0048	4	Screw, Cap - Hex Head (3/8-16 x 3/4")				
8	332-1473	1	Lug, Solderless (DFEB Spec J, DFEC Spec C, DFED Spec A Through C, DFFB Begin Spec J)				

Woodward Governor



A131
A135
A211
A267

Woodward Governor

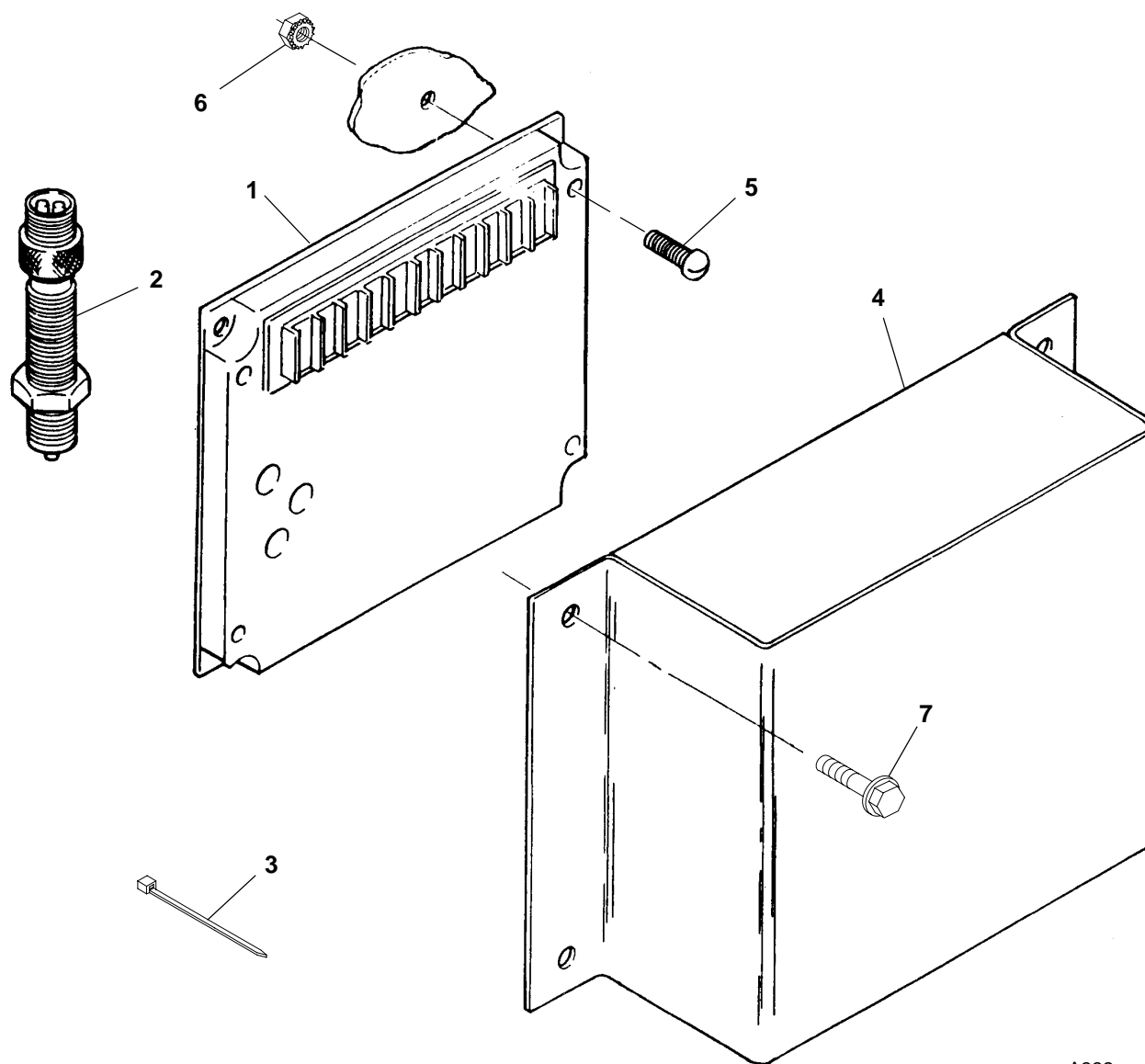
REF NO.	PART NO.	QTY USED	DESCRIPTION	REF NO.	PART NO.	QTY USED	DESCRIPTION
1	149-2287	1	Pump, Fuel DFEB Spec J Through K DFEC Spec C Through D DFED Spec A, DFFB (Includes Fuel Pump Plug and O-Ring Seal – Ref No. 2 and 3)	12	332-0699	1	# Block, Terminal (6 Place) Used With Adder Code A135
	149-2613	1	DFEB Begin Spec L DFEC Begin Spec E DFED Begin Spec B (Includes O-Ring Seal, EFC Cavity Plug, and Female Pipe Adapter – Ref No. 2, 3, and 4)		332-0699	2	*‡ Used With Adder Code A211 and A267
2	150-2334	1	Plug – Fuel Pump EFC Cavity	13	332-0970	1	# Strip, Marker Used With Adder Code A135
3	509-0272-02	1	Seal, O-Ring – EFC Cavity Plug		332-0970	2	*‡ Used With Adder Code A211 and A267
4	502-1302	1	Adapter, Female Pipe (1/8" Female x 1/2-20 Male) – Includes O-Ring	14	822-1050	2	# Screw, Machine – Round Head (#8-32 x 3/4") Used With Adder Code A135
5	149-2233	1	Tube, Fuel Supply		822-1050	4	*‡ Used With Adder Code A211 and A267
6	151-0411	1	#*‡ Pickup, Magnetic	15	813-0103	4	* Screw, Machine – Round Head (#10-32 x 3/4")
7	338-2563	1	#*‡ Harness, Wiring – Woodward Governor (7 Wire, 110") (A16 to P1, GND, T26, ACT) – DFEB Spec J Through K DFEC Spec C Through D DFED Spec A, DFFB	16	151-0663-02	1	Spacer (21/64" ID x 1/4")
8			Harness, Wiring – Adapter – Woodward Governor To Engine Harness (12") (ACT to ACT)	17	815-0728	4	Screw, Cap – Twelve Point (7/16-14 x 1-1/2")
	338-2536	1	# Used With Adder Code A135	18	526-0032	4	Washer, Flat (29/32")
	338-2538	1	*‡ Used With Adder Code A211 and Adder Code A267	19	149-2544	1	Tube, Fuel Supply
9	308-0226	1	# Switch, Toggle	20	149-2543	1	Tube, Fuel Drain
10	098-6167	1	# Label, Toggle Switch	21	149-2614	1	Tube, Fuel Drain DFEB Begin Spec L DFEC Begin Spec E DFED Begin Spec B
11	332-1445	1	#*‡ Tie, Cable (Quantity Used As Required)				

– **Used With Adder Code A135** – Hydraulic governor with a morotized head for remote speed adjustment and is externally adjustable for a speed drop of 0% (isochronous) to 7%.

* – **Used With Adder Code A211** – Electronic governor with magnetic speed pickup, hydraulic actuator, adjustable for a speed droop of 0% (isochronous) to 5%.

‡ – **Used With Adder Code A267** – Electronic governor with magnetic speed pickup, hydraulic actuator, load sharing, adjustable for a speed droop of 0% (isochronous) to 5% and load sharing within 5%.

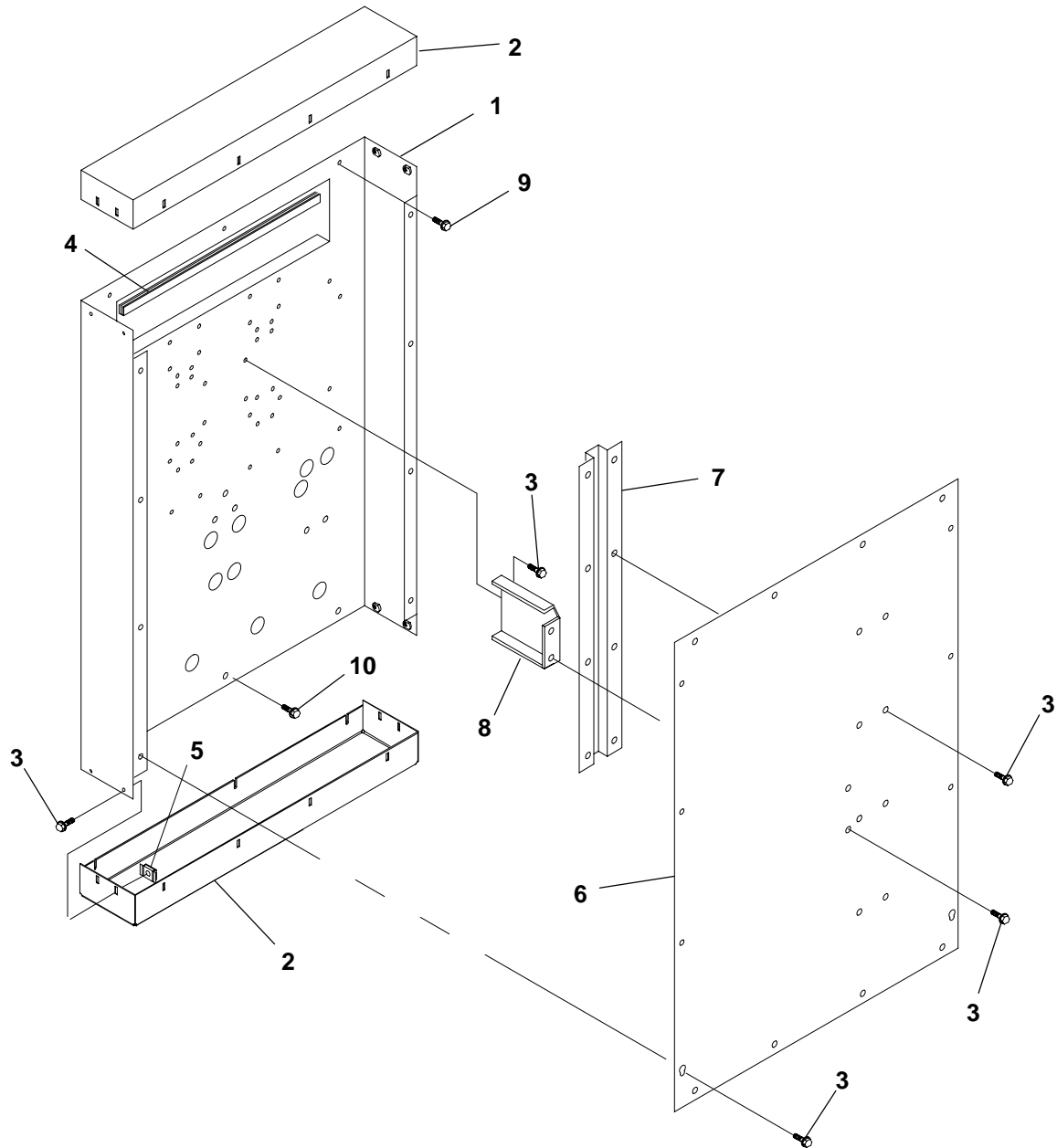
Electronic Governor



A332

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	151-0637	1	Control, Governor	6	870-0131	4	Nut, Hex W/ET (#10-32)
2	151-0411	1	Pickup, Magnetic				DFEB Spec J Through L
3	332-1445	A/R	Tie, Cable				DFEC Spec C Through E
4	150-2213	1	Cover, Governor Control				DFED Spec A Through B
5	813-0103	4	Screw, Machine – Round Head (#10-32 x 3/4")	7	821-6001-03	4	DFFB Begin Spec J
			DFEB Spec J Through L				Screw, Self-Locking, Hex Washer Head (M5 x 16mm)
			DFEC Spec C Through E				DFEB Begin Spec M
			DFED Spec A Through B				DFEC Begin Spec F
			DFFB Begin Spec J				DFED Begin Spec C

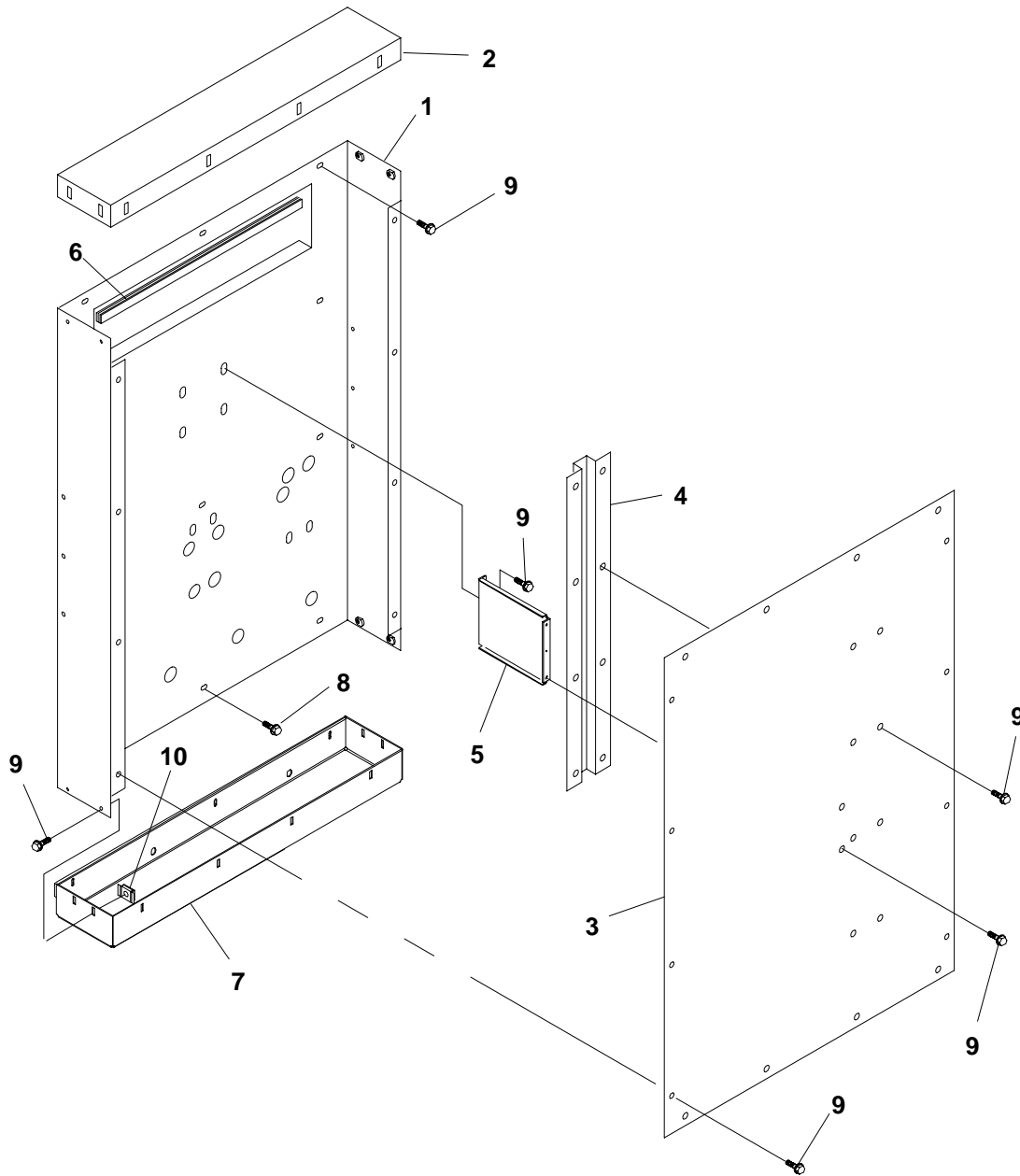
Entrance Box
Model HC5 Generators
DFEB Spec J Through L, DFEC Spec C Through E
DFED Spec A Through B, DFFB Begin Spec J



K882

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2432	1	Box, Entrance	6	319-1916	1	Cover
2	319-1915	2	Cover	7	319-1918	1	Brace, Cover
3	821-5002-03	41	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	8	319-1927	1	Brace, Cover
4	508-1092	–	Edging – Bulk (Order By The Foot – 3 Feet Required)	9	821-5002-04	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")
5	870-0494	16	Nut, Self-Retaining – Floating (1/4-20)	10	821-0009	1	Screw, Self-Locking – Hex Washer Head (1/4-20 x 3/8")

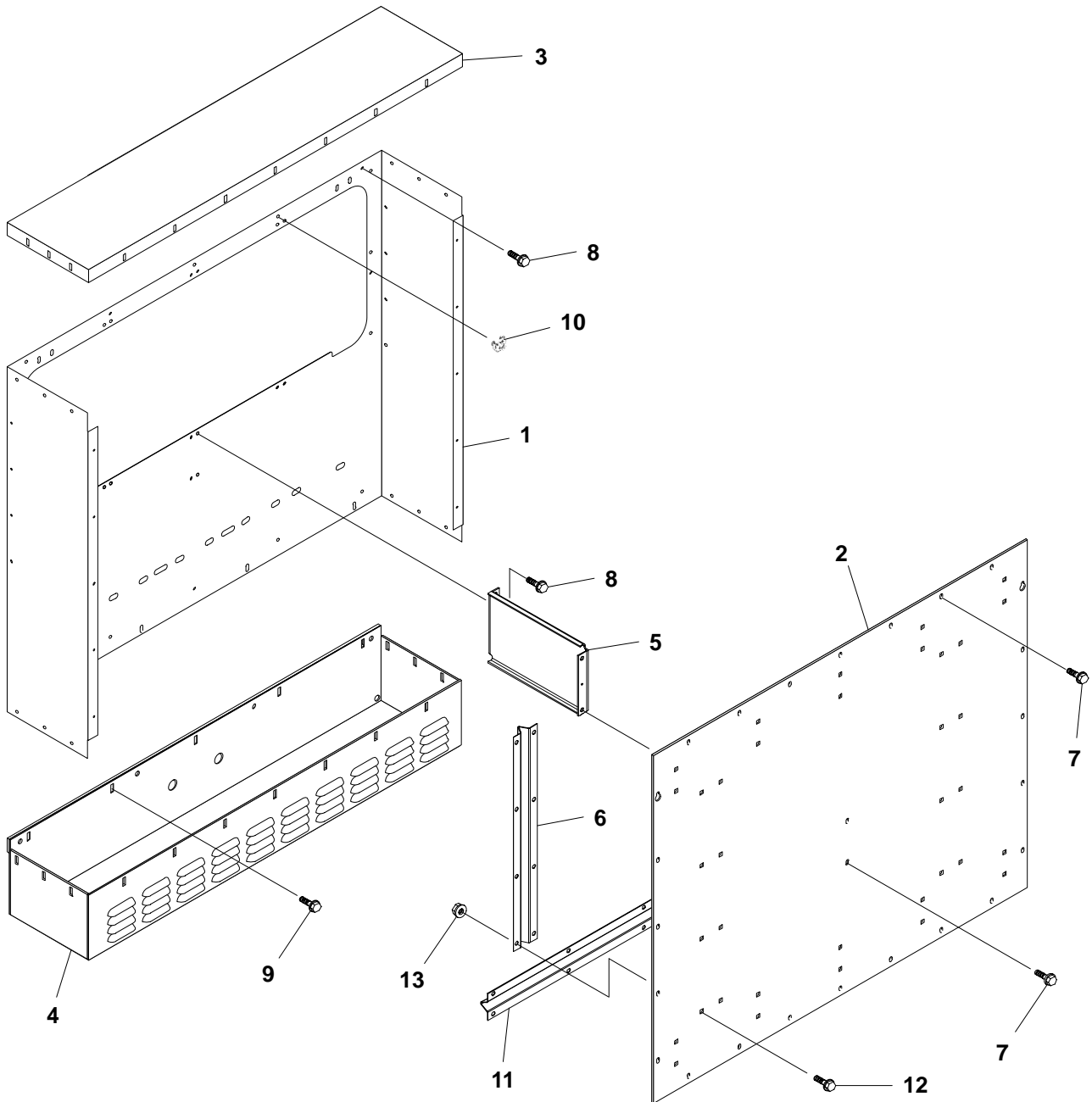
Entrance Box
Model HC5 Generators
DFEB Begin Spec M, DFEC Begin Spec F, DFED Begin Spec C



K882

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

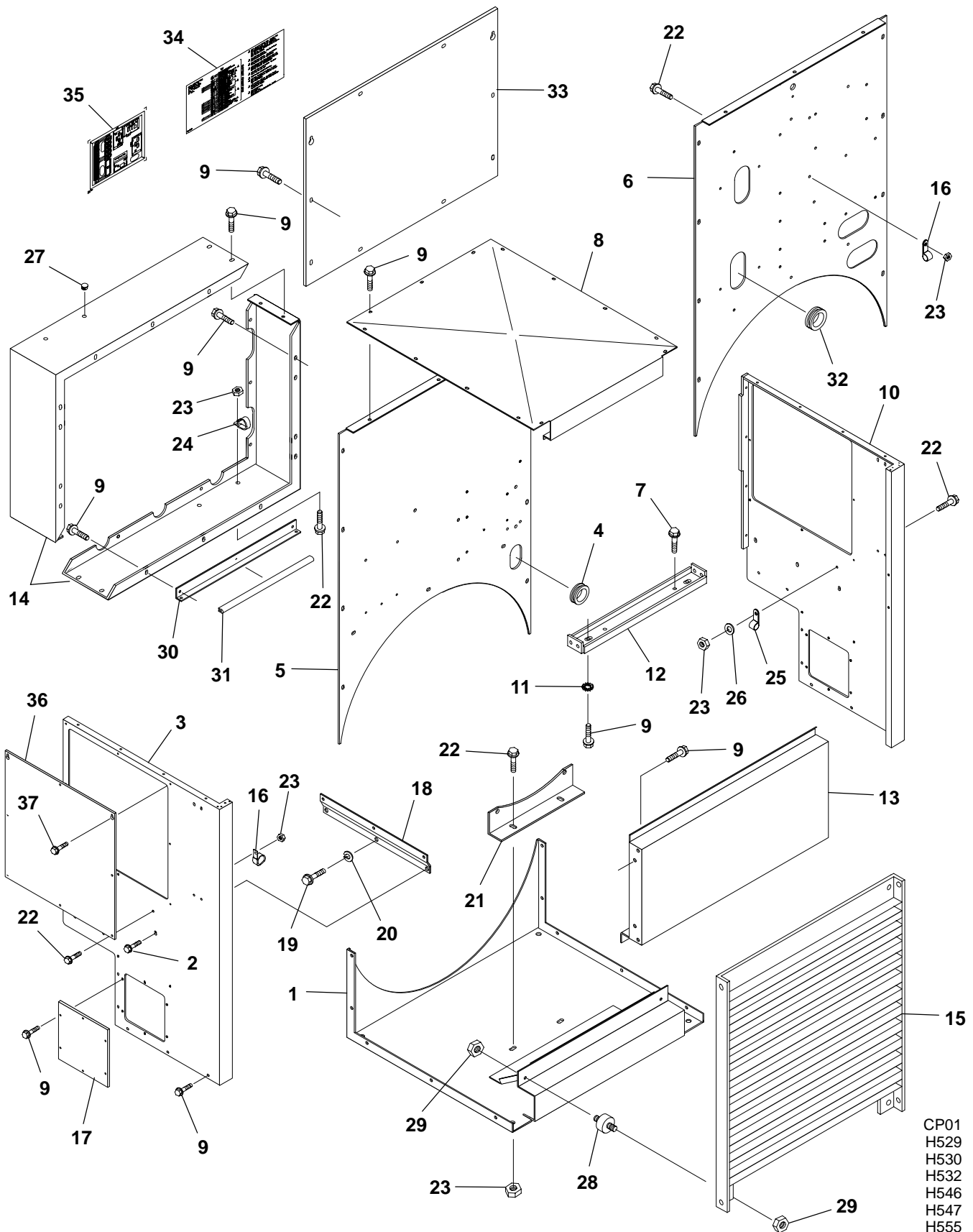
**Entrance Box
Model HC6 Generators
DFFB Begin Spec K**



K882

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2337	1	Box, Entrance	8	821-0018	7	Screw, Self-Locking – Hex Washer Head (1/4–20 x 5/8")
2	319-2378	1	Cover, Entrance Box	9	821-0011	5	Screw, Self-Locking – Hex Washer Head (1/4–20 x 7/8")
3	319-2336	1	Cover, Circuit Breaker Box	10	870-0494	26	Nut, Self-Retaining (1/4–20)
4	319-2335	1	Cover Assembly, Circuit Breaker Box	11	319-2399	2	Brace, Access Door
5	319-2377-02	1	Brace, Cover	12	816-0098	36	Bolt, Carriage (5/16–18 x 5/8")
6	319-2398	2	Brace, Access Door	13	870-0257	36	Nut, Hex – Locking (5/16–18)
7	821-0010	38	Screw, Self-Locking – Hex Washer Head (1/4–20 x 1/2")				

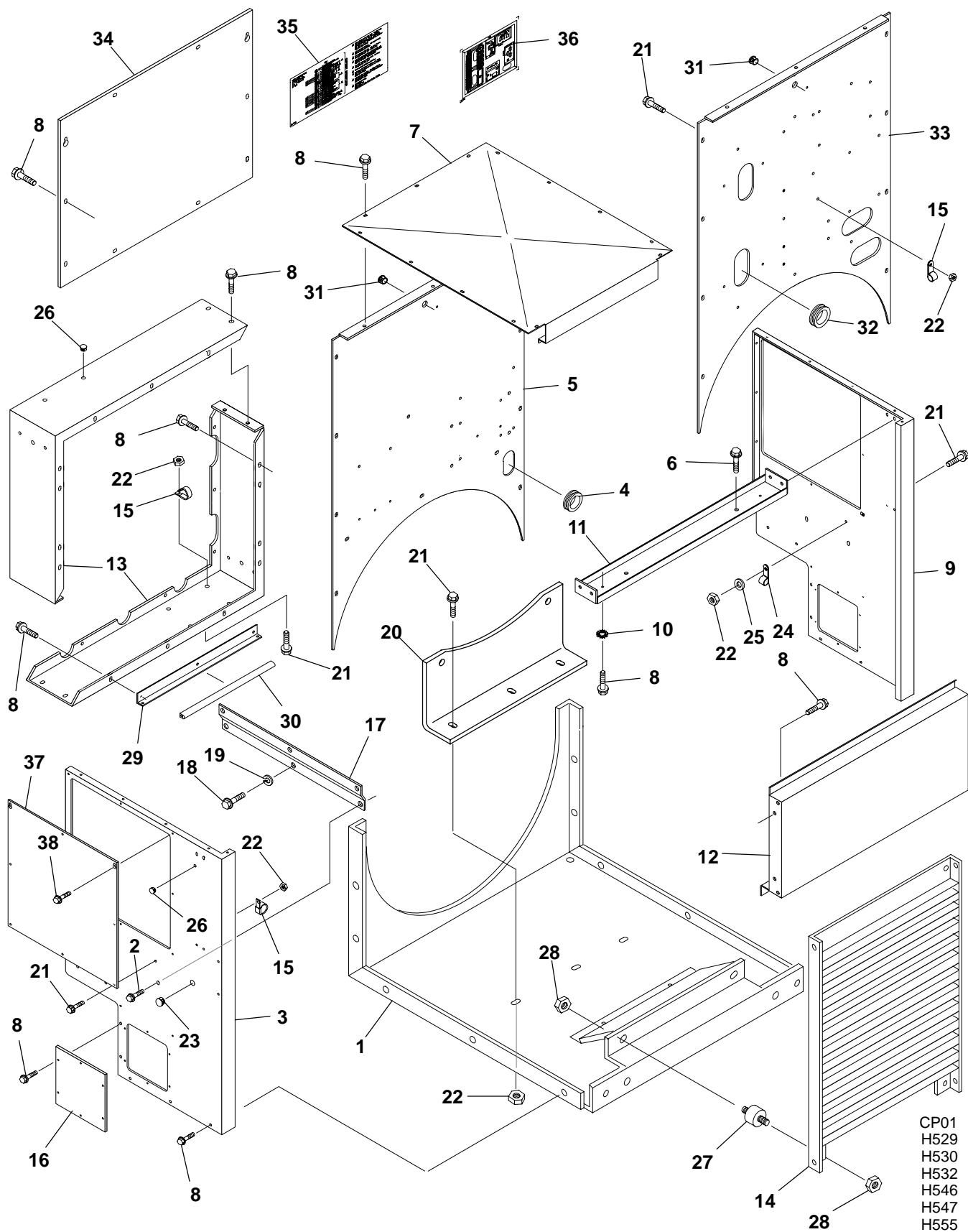
**Control Housing
Model HC5 Generators
DFEB Spec J Through L, DFEC Spec C Through E
DFED Spec A Through B, DFFB Begin Spec J**



Control Housing
Model HC5 Generators
DFEB Spec J Through L, DFEC Spec C Through E
DFED Spec A Through B, DFFB Begin Spec J

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2771-02	1	Panel – Bottom	23			Nut, Self-Locking – Flange Head (5/16–18)
2	821-5004-02	6	Screw, Self-Locking – Hex Washer Head (3/8–16 x 3/4")		870-0257	5	Sets With Detector Control
					870-0257	5	Sets With PowerCommand Control
3	319-2784-01	1	Panel, Right Side	24	332-2634	2	Clamp, "J" – Sets With PowerCommand Control
4	508-1057	1	Grommet, Rubber – Sets With Detector Control (Fits 2–1/4" Hole)	25	518-0548-24	1	Clamp, Hose – Sets With PowerCommand Control
5	319-2786	1	Panel, Rear – Sets With Detector Control	26	526-0399-16	1	Washer, Flat (5/16")
6	319-2217	1	Panel, Rear – Sets With PowerCommand Control	27	517-0131	2	Plug, Hole (Fits 3/8" Hole) Sets With PowerCommand Control
7	821-5003-01	4	Screw, Self-Locking, Hex Washer Head (1/4–20 x 1/2")	28	402-0508	4	Isolator, Vibration
8	301-9512	1	Cover, Top	29	870-0550-05	8	Nut, Self-Locking – Flange (1/4–20)
9			Screw, Self-Locking – Hex Washer Head (1/4–20 x 1/2")	30	319-2787	1	Angle, Stiffener – Sets With Detector Control
	821-5002-03	61	Sets With Detector Control	31	508-1109	–	Edging (Order by the Foot – 1 Foot Required) – Sets With Detector Control
	821-5002-03	68	Sets With PowerCommand Control	32	508-1090	4	Grommet, Rubber – Sets With PowerCommand Control (Fits 3–1/4" Hole)
10	319-2784-02	1	Panel, Left Side	33	319-2220	1	Cover, Control Box – Sets With PowerCommand Control
11			Washer, Lock – EIT (1/4")				Control
	856-0006	1	Sets With Detector Control	34			Decal, Customer Connections Sets With PowerCommand Control
	856-0006	2	Sets With PowerCommand Control		098-6985	1	Without Paralleling
12	301-9510	2	Support, Control Box		098-7121	1	With Paralleling
13	319-2776	1	Panel, Front	35	098-6826	1	Decal, Module Installation – PowerCommand Control
14	319-2476	2	Wrapper, Control Box – Sets With PowerCommand Control	36			Cover, Side
					301-9511	2	Without Circuit Breaker or Entrance Box
15	319-2768	1	Grille		301-9511	1	With Circuit Breaker or Entrance Box
16			Clamp, "J"	37			Screw, Self-Locking – Hex Washer Head (1/4–20 x 1/2")
	332-2634	2	Sets With Detector Control				Sets With Detector Control
	332-2634	1	Sets With PowerCommand Control				Sets With PowerCommand Control
17	301-9629	2	Cover, Side – Lower				
18	319-0745	2	Bracket, Panel				
19	800-2111	6	Screw, Self-Locking – Hex Washer Head (M12 x 25mm)				
20	850-2012	6	Washer, Lock – Spring (M12)		821-5002-03	16	
21	319-1346	1	Bracket, Panel		821-5002-03	8	
22			Screw, Self-Locking – Hex Washer Head (5/16–18 x 3/4")				
	821-5003-03	5	Sets With Detector Control				
	821-5003-03	7	Sets With PowerCommand Control				

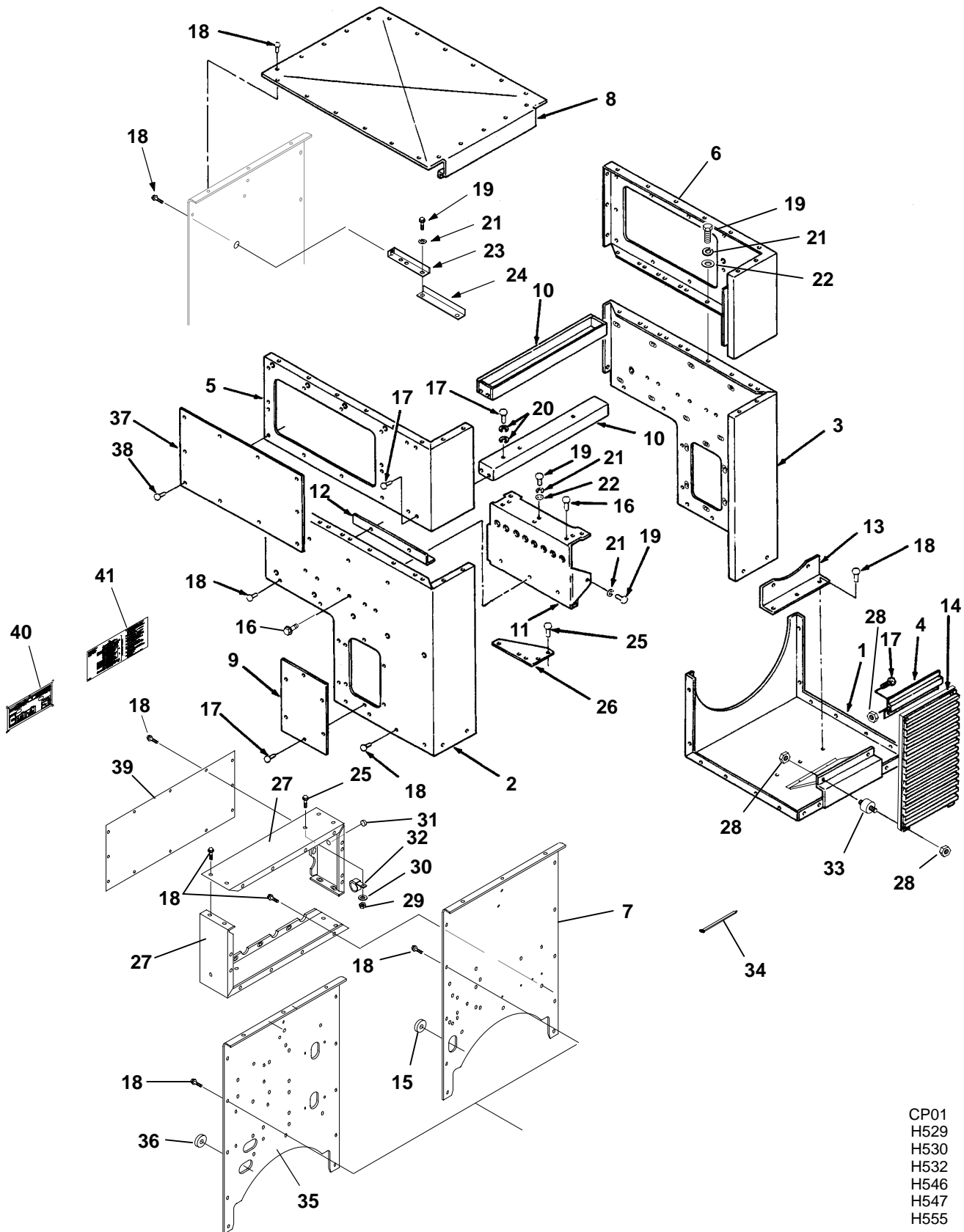
Control Housing
Model HC5 Generators
DFEB Begin Spec M, DFEC Begin Spec F, DFED Begin Spec C



Control Housing
Model HC5 Generators
DFEB Begin Spec M, DFEC Begin Spec F, DFED Begin Spec C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3270-02	1	Panel, Bottom	22			Nut, Locking (M8)
2	821-6004-01	6	Screw, Self-Locking – Hex Washer Head (M10 x 20mm)		870-2055	5	Sets With Detector Control
					870-2055	7	Sets With Power Command Control
3	319-3287-01	1	Panel, Right Side	23	517-0136	2	Plug, Hole (Fits 3/4" Hole)
4	508-1057	1	Grommet, Rubber – Sets With Detector Control (Fits 2-1/4" Hole)	24	518-0548-24	1	Clamp, Hose – Sets With PowerCommand Control
5	319-3290	1	Panel, Rear – Sets With Detector Control	25	526-2100	1	Washer, Flat (M8)
6	821-0014	4	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")	26			Plug, Hole (Fits 3/8" Hole)
					517-0131	1	Sets With Detector Control
					517-0131	3	Sets With PowerCommand Control
7	301-9512	1	Cover, Top	27	402-0729	4	Isolator, Vibration
8			Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	28	870-2054	8	Nut, Locking (M6)
	821-6002-03	61	Sets With Detector Control	29	319-3291	1	Angle, Stiffener – Sets With Detector Control
	821-6002-03	68	Sets With PowerCommand Control	30	508-1109	–	Edging (Order by the Foot – 1 Foot Required) – Sets With Detector Control
9	319-3287-02	1	Panel, Left Side	31	517-0135	1	Plug, Hole (Fits 5/8" Hole)
10			Washer, Lock – EIT (1/4")	32	508-1090	4	Grommet, Rubber – Sets With PowerCommand Control (Fits 3-1/4" Hole)
	856-0006	1	Sets With Detector Control				
	856-0006	2	Sets With PowerCommand Control	33	319-3273	1	Panel, Rear – Sets With PowerCommand Control
11	319-3294	2	Support, Control Box	34	319-2220	1	Cover, Control Box – Sets With PowerCommand Control
12	319-2776	1	Panel, Front				
13	319-3278	2	Wrapper, Control Box – Sets With PowerCommand Control	35			Decal, Customer Connections
14	319-2768	1	Grille				Sets With PowerCommand Control
15			Clamp, "J"				
	518-0548-02	2	Sets With Detector Control		098-6985	1	Without Paralleling
	518-0548-02	3	Sets With Power Command Control		098-7121	1	With Paralleling
16	301-9629	2	Cover, Side – Lower	36	098-6826	1	Decal, Module Installation – PowerCommand Control
17	319-3327	2	Bracket, Panel	37			Cover, Side
18	800-2111	6	Screw, Self-Locking – Hex Washer Head (M12 x 25 mm)		301-9511	2	Without Circuit Breaker or Entrance Box
					301-9511	1	With Circuit Breaker or Entrance Box
19	850-2012	6	Washer, Lock – Spring (M12)				
20	319-1346	1	Bracket, Panel	38			Screw, Self-Locking – Hex Washer Head (M6 x 20mm)
21			Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")		821-6002-03	16	Sets With Detector Control
	821-6003-02	5	Sets With Detector Control		821-6002-03	8	Sets With PowerCommand Control
	821-6003-02	7	Sets With PowerCommand Control				

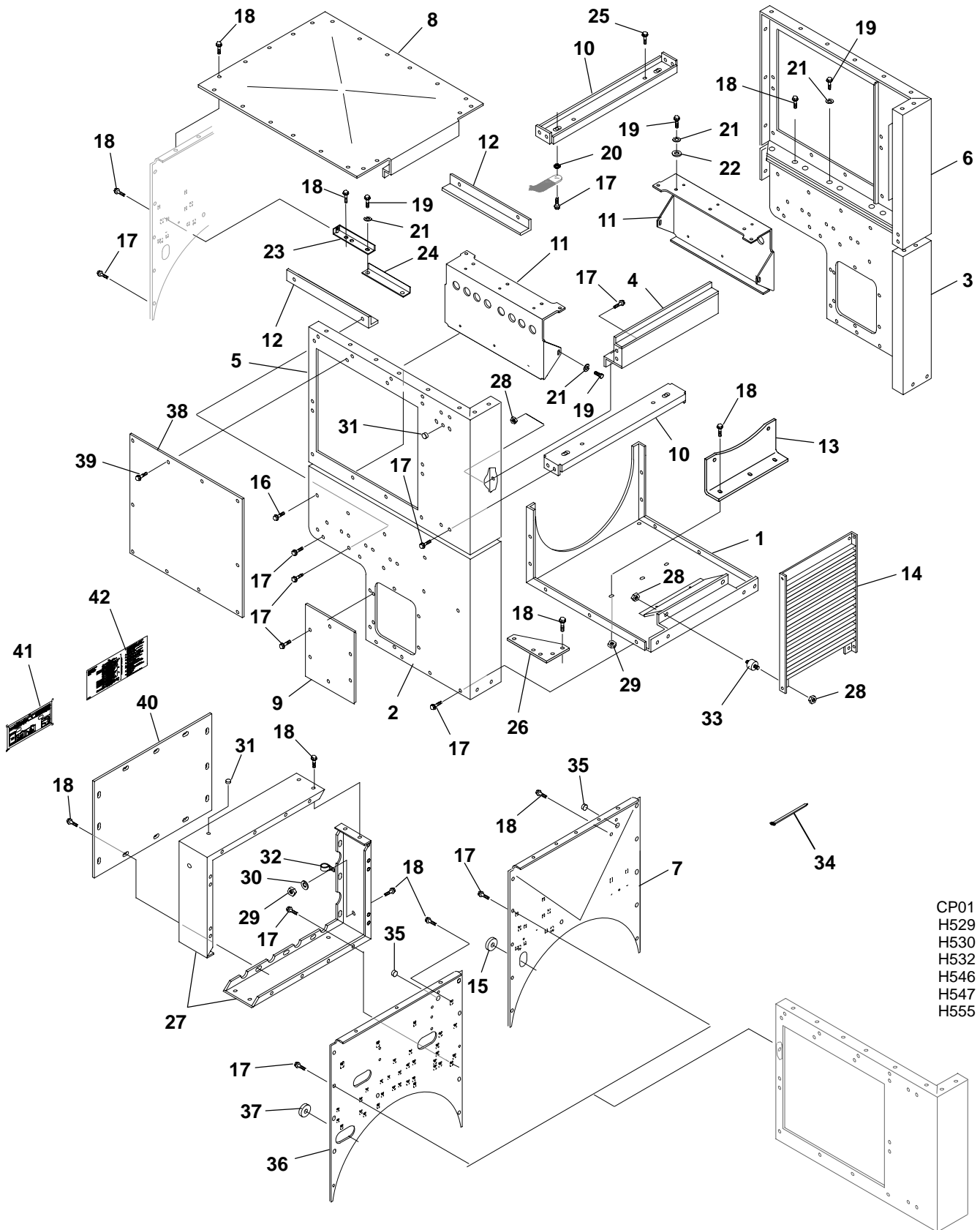
**Control Housing
Model HC6 Generators
DFED Spec A Through B, DFFB Begin Spec J**



**Control Housing
Model HC6 Generators
DFED Spec A Through B, DFFB Begin Spec J**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2771-03	1	Panel, Bottom	26	319-1203-01	2	Gusset
2	319-2781-01	1	Panel – Right Side – Lower	27	319-2244	2	Wrapper, Control Box – Sets With PowerCommand Control
3	319-2781-02	1	Panel – Left Side – Lower				
4	319-2778	1	Panel – Rear				
5	319-2779-01	1	Panel – Right Side – Upper	28	870-0550-05	10	Nut, Hex (1/4-20)
6	319-2779-02	1	Panel – Left Side – Upper	29	870-0550-07	2	Nut, Hex (5/16-18) Sets With PowerCommand Control
7	319-1089	1	Panel – Front – Sets With Detector Control	30	526-1115	2	Washer, Flat (5/16") Sets With PowerCommand Control
8	319-1093	1	Cover, Top				
9	319-0881	2	Cover, Side – Lower				
10	319-0879	2	Support – Control Box	31	517-0131	2	Plug, Hole (Fits 3/8" Hole) Sets With PowerCommand Control
11	319-1096	2	Bracket, Saddle				
12	319-0883	2	Angle, Housing				
13	319-1091	1	Bracket, Panel	32	332-2634	4	Clamp, "J" – Sets With PowerCommand Control
14	319-2767	1	Grille				
15	508-1057	1	Grommet, Rubber – Sets With Detector Control (Fits 2-1/4" Hole)	33	402-0610	4	Isolator, Vibration
				34	332-1389	A/R	Tie, Cable
				35	319-2243	1	Panel, Front – Sets With PowerCommand Control
16	821-5004-02	12	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")	36	508-1090	3	Grommet, Rubber – Sets With PowerCommand Control
17	821-5002-03	30	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	37			Cover, Side – Upper Without Circuit Breaker, Entrance Box, or BUS Box
18			Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")		319-1095	2	With Circuit Breaker, Entrance Box, or BUS Box
	821-5003-01	58	Sets With Detector Control		319-1095	1	With Circuit Breaker, Entrance Box, or BUS Box
	821-5003-01	80	Sets With PowerCommand Control	38			Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
19	800-2086	15	Screw, Cap – Hex Head (M10 x 25mm)		821-5002-03	10	Sets With Detector Control
					821-5002-03	20	Sets With PowerCommand Control
20	856-0006	1	Washer, Lock – EIT (1/4")				
21	850-2010	15	Washer Lock – Spring (M10)	39	319-2245	1	Cover, Control Box – Sets With PowerCommand Control
22	526-0141	10	Washer, Flat (3/8")				
23	319-1090	1	Angle, Support (5-1/2")				
24	319-1118	1	Angle, Support (6-1/2")	40	098-6827	1	Decal, Module Installation – PowerCommand Control
25			Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")	41			Decal, Customer Connections – PowerCommand Control
	821-5003-03	9	Sets With Detector Control		098-6985	1	Models Without Paralleling
					098-7121	1	Models With Paralleling
	821-5003-03	11	Sets With PowerCommand Control				

Control Housing
Model HC6 Generators
DFEB Spec M, DFEC Spec F, DFED Spec C



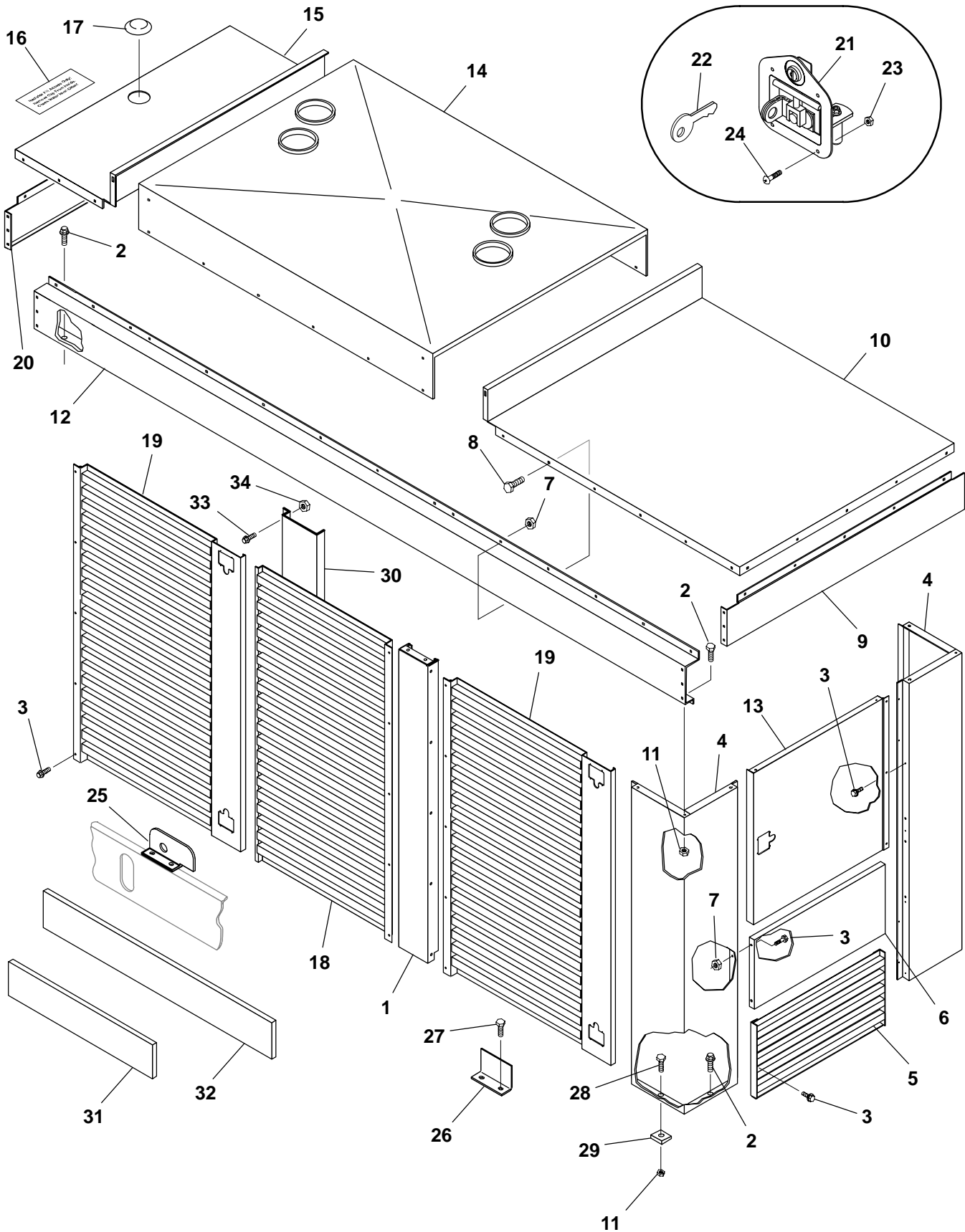
CP01
H529
H530
H532
H546
H547
H555

Control Housing
Model HC6 Generators
DFEB Spec M, DFEC Spec F, DFED Spec C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3270-03	1	Panel – Bottom	28	870-2054	10	Nut, Locking (M6)
2	319-3283-01	1	Panel – Right Side – Bottom	29	870-2055	2	Nut, Locking (M8) Sets With PowerCommand Control
3	319-3283-02	1	Panel – Left Side – Bottom				
4	319-2778	1	Panel – Rear	30	526-1115	2	Washer, Flat (5/16") Sets With PowerCommand Control
5	319-3281-01	1	Panel – Right Side – Upper				
6	319-3281-02	1	Panel – Left Side – Upper				
7	319-3262	1	Panel – Front – Sets With Detector Control	31			Plug, Hole (Fits 3/8" Hole)
					517-0131	1	Sets With Detector Control
8	319-1093	1	Cover, Top		517-0131	3	Sets With PowerCommand Control
9	319-0881	2	Cover, Side – Lower				
10	319-3258	2	Support, Control Box	32			Clamp, Retainer – Sets With PowerCommand Control
11	319-3267	2	Bracket, Saddle				
12	319-3260	2	Angle, Housing		332-2634	2	Engine Side (3/4" ID)
13	319-1091	1	Bracket, Panel		518-0548-42	2	Control Side (1-1/16" ID)
14	319-2767	1	Grille	33	402-0729	4	Isolator, Vibration
15	508-1057	1	Grommet, Rubber (Fits 2-1/4" Hole) Sets With Detector Control	34	332-1389	A/R	Tie, Cable
				35	517-0135	1	Plug, Hole (Fits 5/8" Hole)
				36	319-3276	1	Panel – Front – Sets With PowerCommand Control
16	821-6004-01	12	Screw, Self-Locking – Hex Washer Head (M10 x 20mm)	37	508-1090	3	Grommet, Rubber (Fits 3-1/4" Hole) Sets With PowerCommand Control
17	821-6002-03	30	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	38			Cover, Side – Upper
18			Screw, Self-Locking – Hex Washer Head (M8 x 20mm)		319-1095	2	Without Circuit Breaker, Entrance Box, or BUS Box
	821-6003-02	63	Sets With Detector Control		319-1095	1	With Circuit Breaker, Entrance Box, or BUS Box
	821-6003-02	87	Sets With PowerCommand Control	39			Screw, Self-Locking – Hex Washer Head (M6 x 20mm)
19	800-2086	15	Screw, Cap – Hex Head (M10 x 25mm)		821-6002-03	10	Sets With Detector Control
					821-6002-03	20	Sets With PowerCommand Control
20			Washer, Lock – EIT (1/4")				
	856-0006	1	Sets With Detector Control	40	319-2245	1	Cover, Control Box – Sets With PowerCommand Control
	856-0006	2	Sets With PowerCommand Control				
21	850-2010	15	Washer, Lock – Spring (M10)	41	098-6827	1	Decal, Module Installation – Sets With PowerCommand Control
22	526-0141	10	Washer, Flat (3/8")				
23	319-3263	1	Angle, Support (5-1/2")				
24	319-3269	1	Angle, Support (6-1/2")	42			Decal, Customer Connections – Sets With PowerCommand Control
25	821-0014	4	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")		098-6985	1	Models Without Paralleling
26	319-1203-01	2	Gusset				
27	319-3277	2	Wrapper, Control Box – Sets With PowerCommand Control		098-7121	1	Models With Paralleling

Housing

DFEB Spec J, DFEC Spec C, DFED Spec A Through C, DFFB Begin Spec J



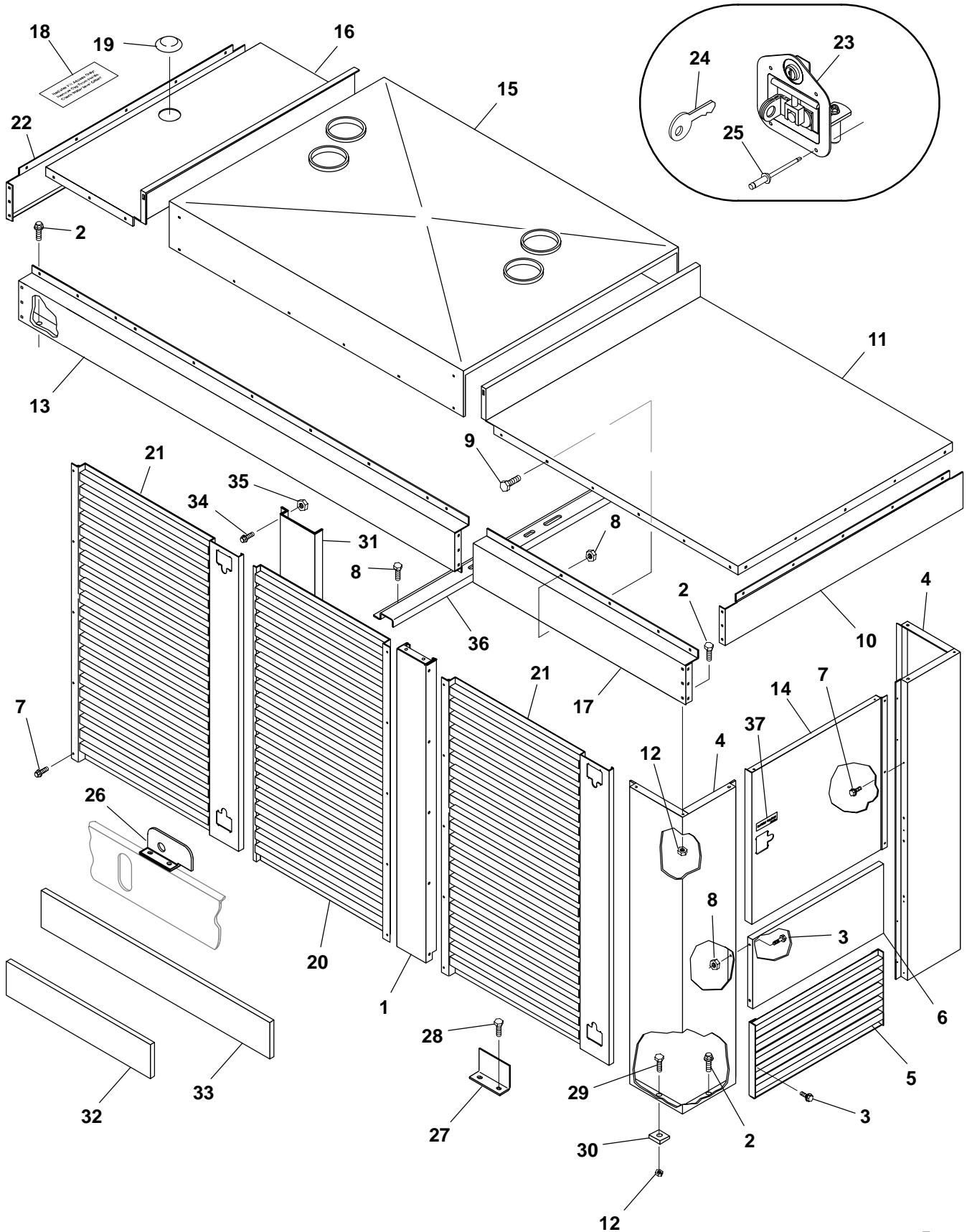
Housing

DFEB Spec J, DFEC Spec C, DFED Spec A Through C, DFFB Begin Spec J

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-4202	2	Post, Center	19			Door – Side – With Opening for Door Handles
2	821-0029	16	Screw, Locking – Hex Washer Head (3/8–16 x 3/4")	405-4213-01	3		Right Side Front and Rear Location, Left Side Center Location
3	821-5003-01	41	Screw, Locking – Hex Washer Head (5/16–18 x 1/2")	405-4213-02	1		Left Side Rear Location
4	405-4203	2	Post – Rear	20	405-4196	1	Cap, End – Front
5	405-4104	1	Grille	21	406-0918	9	Handle, Door (Includes Key [Ref No. 22])
6	405-4214	1	Panel – Rear	22	406-0639	9	Key
7	870-0257	60	Nut, Locking – Hex Head (5/16–18 x 1/2")	23	870-0235	36	Nut, Locking – Hex Head (#8–32)
8	816-0098	56	Bolt, Carriage (5/16–18 x 5/8")	24	815-0607	36	Screw, Machine – Round Head (#8–32 x 3/8")
9	405-4197	1	Cap, End – Rear	25	405-3980	2	Stop, Door
10	405-4200	1	Roof – Rear	26	405-4206	2	Stop, Door
11	870-0281	18	Nut, Locking – Hex Head (3/8–16)	27	815-0236	8	Screw, Hex Head – Thread Forming (5/16–18 x 5/8")
12			Rail, Side	28	821-0035	8	Screw, Locking – Hex Washer Head (3/8–16 x 1-1/4")
	405-4201-02	1	Left Side				
	405-4201-01	1	Right Side				
13	405-4205	1	Door, Control	29	403-2733-02	8	Washer, Bevel
14			Roof – Center	30	405-4289	2	Bracket, Door
	405-4199-01	1	DFEB, DFEC, DFED	31	128-0127	2	Insulation (37-1/2" x 6-1/2" x 1/4")
	405-4199-02	1	DFFB				
15	405-4198	1	Roof – Front	32	128-0128	4	Insulation (59-1/2" x 7-3/4" x 1/4")
16	098-5429	2	Label, Coolant Fill				
17	517-0245	1	Plug	33	821-5002-03	10	Screw, Locking – Hex Washer Head (1/4–20 x 1/2")
18	405-4212	2	Door – Side – Without Opening for Door Handles (Right Side Center Location and Left Side Front Location)	34	870-0212	10	Nut, Locking – Hex Head (1/4–20)

Housing

DFEB Begin Spec K, DFEC Begin Spec D, DFED Begin Spec A, DFFB Begin Spec J



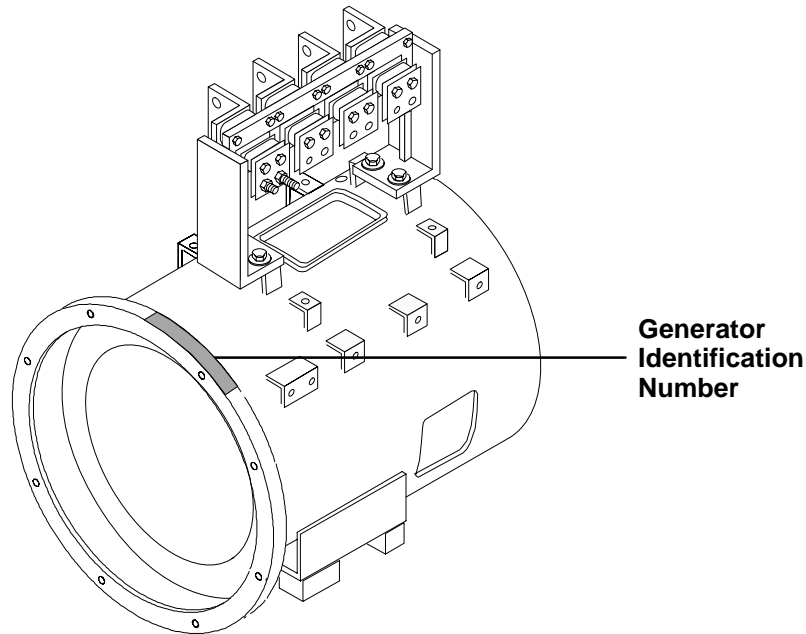
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Housing

DFEB Begin Spec K, DFEC Begin Spec D, DFED Begin Spec A, DFFB Begin Spec J

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-4202	2	Post, Center	22	405-4196	1	Cap, End – Front
2	821-0029	16	Screw, Locking – Hex Washer Head (3/8–16 x 3/4")	23	406-0918	9	Handle, Door (Includes Key [Ref No. 24])
3	821-0014	8	Screw, Locking – Hex Washer head (5/16–18 x 1/2")	24	406-0639	9	Key
4	405-5213	2	Post – Rear	25	818-0231-02	36	Rivet, Pop
5	405-4104	1	Grille	26	405-3980	2	Stop, Door
6	405-4214	1	Panel – Rear	27	405-4206	2	Stop, Door
7	815-0907	33	Screw, Machine – Pan Head – Cross Recessed (5/16–18 x 1/2")	28	815-0236	8	Screw, Hex Head – Thread Forming (5/16–18 x 5/8")
8	870-0257	68	Nut, Locking – Hex Head (5/16–18 x 1/2")	29	821-0030	8	Screw, Locking – Hex Washer Head (3/8–16 x 1")
9	816-0098	62	Bolt, Carriage (5/16–18 x 5/8")	30	403-2733-02	8	Washer, Bevel
10	405-4197	1	Cap, End – Rear	31	405-4289	1	Bracket, Door
11	405-5214	1	Roof – Rear	32			Insulation (37–1/2" x 6–1/2" x 1/4")
12	870-0281	18	Nut, Locking – Hex Head (3/8–16)		128-0127	1	DFEB Spec K Through R DFEC Spec D Through J DFED Spec A Through F DFFB Begin Spec J
13			Rail, Side – Front				DFEC Begin Spec K DFED Begin Spec G
	405-5290	1	Left Side	33			Insulation (59–1/2" x 7–3/4" x 1/4")
	405-5292	1	Right Side				DFEB Spec K Through R DFEC Spec D Through J DFED Spec A Through F DFFB Begin Spec J
14	405-4205	1	Door, Control		128-0128	4	DFEC Begin Spec S DFEC Begin Spec K DFED Begin Spec G
15			Roof – Center				Screw, Locking – Hex Washer Head (1/4–20 x 1/2")
	405-4199-01	1	DFEB, DFEC, DFED				Nut, Locking – Hex Head (1/4–20)
	405-4199-02	1	DFFB				Bracket, Silencer
16	405-4198	1	Roof – Front		128-0154-08	4	Label, Rainproof Enclosure DFEC Begin Spec S DFEC Begin Spec K DFED Begin Spec G
17			Rail, Side – Rear	34	821-0010	4	
	405-5289	1	Left Side				
	405-5291	1	Right Side				
18	098-5429	2	Label, Coolant Fill	35	870-0212	4	
19	517-0245	1	Plug	36	155-2440	1	
20	405-4212	2	Door – Side – Without Opening for Door Handles (Right Side Center Location and Left Side Front Location)	37	098-7868	1	
21			Door – Side – With Opening for Door Handles				
	405-4213-01	3	Right Side Front and Rear Location, Left Side Center Location				
	405-4213-02	1	Left Side Rear Location				

Generator Rotor and Stator Part Numbers Model HC5 Generators



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

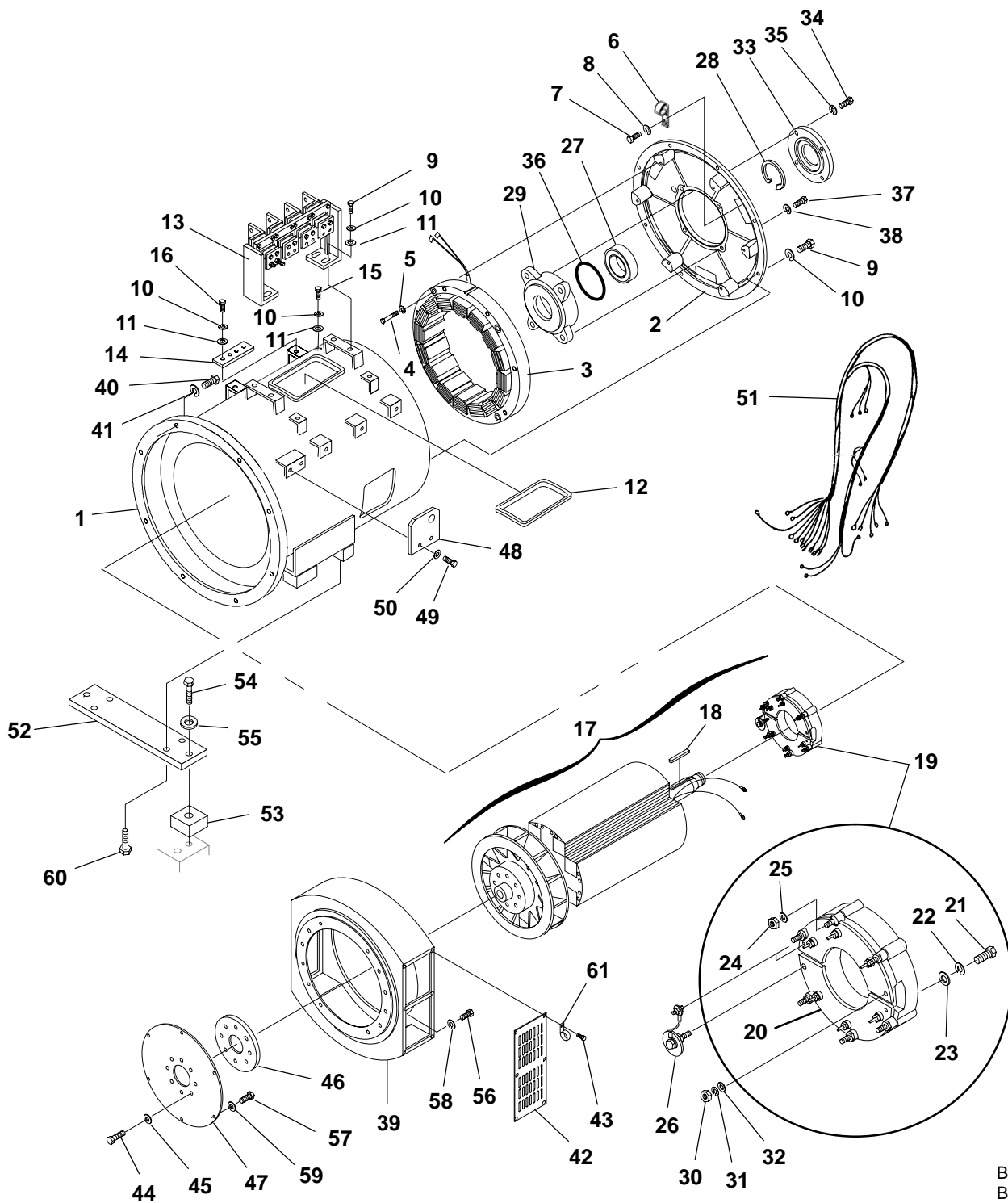
Component parts that are included with the main stator and rotor are listed on the “Generator, Model HC5 Generators” pages of this catalog.

Cummins/Onan Identification Number	Generator Model	Stator Assembly Part Number	Rotor Assembly Part Number
249-0175-01	HC534C	220-4398-01	201-3505-01
249-0175-02	HC534D	220-4398-02	201-3505-02
249-0175-03	HC534E	220-4398-03	201-3505-03
249-0175-04	HC534F	220-4398-04	201-3505-04
249-0178-01	HC534C	220-4398-05	201-3505-01
249-0178-02	HC534D	220-4398-06	201-3505-02
249-0178-03	HC534E	220-4398-07	201-3505-03
249-0178-04	HC534F	220-4398-08	201-3505-04
249-5085-01	HC534C	220-4474-01	201-3505-01
249-5085-02	HC534D	220-4474-02	201-3505-02
249-5085-03	HC534E	220-4474-03	201-3505-03
249-5085-04	HC534F	220-4474-04	201-3505-04
249-5085-07	HC534E	220-4474-27	201-3505-03

**Generator Rotor and Stator Part Numbers
Model HC5 Generators**

Cummins/Onan Identification Number	Generator Model	Stator Assembly Part Number	Rotor Assembly Part Number
249-5085-08	HC534F	220-4474-28	201-3505-04
249-5085-11	HC534E	220-4474-63	201-3505-03
249-5086-01	HC534C	220-4474-05	201-3505-01
249-5086-02	HC534D	220-4474-06	201-3505-02
249-5086-03	HC534E	220-4474-07	201-3505-03
249-5086-04	HC534F	220-4474-08	201-3505-04
249-5086-08	HC534F	220-4474-32	201-3505-04
249-5086-10	HC534D	220-4474-66	201-3505-02
249-5086-12	HC534F	220-4474-68	201-3505-04
249-5087-02	HC534D	220-4474-38	201-3505-02

Generator Model HC5 Generators



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Generator Model HC5 Generators

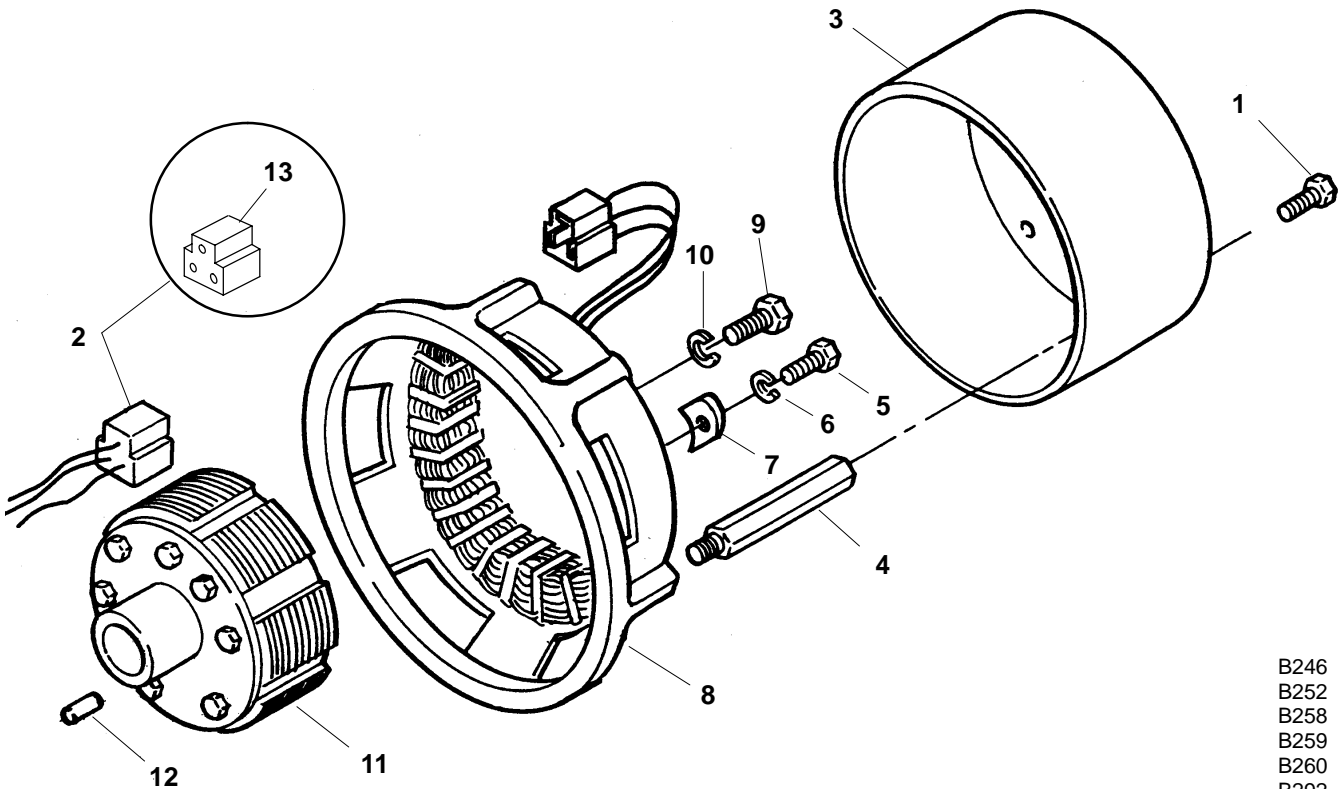
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	—	1	Stator Assembly, Generator – Complete (See Page 86 For Part Numbers) (Includes Parts Marked *)	35	850-2010	4	# Washer, Lock – Spring (M10)
2	211-0457	1	* Bell, End	36	509-0266-03	1	# O-Ring
3	220-4389	1	* Stator, Exciter	37	800-2091	4	Screw, Cap – Hex Head (M10 x 50mm)
4	800-2069	6	* Screw, Cap – Hex Head (M8 x 80mm)	38	850-2010	4	Washer, Lock – Spring (M10)
5	850-2008	6	* Washer, Lock – Spring (M8)	39	231-0344	1	Adapter, Generator
6	425-1799	1	* Clamp, Cable	40			Screw
7	800-2004	1	* Screw, Cap – Hex Head (M5 x 12mm)		800-3017-56	6	Cap – Hex Head (M12 x 40mm)
8	850-2005	1	* Washer, Lock – Spring (M5)		725-1103	2	Socket Head (M12 x 40mm) (Bottom Holes)
9	800-3017-39	12	* Screw, Cap – Hex Head (M10 x 35mm)	41	850-0114-56	8	Washer, Lock – Spring (M12)
10	850-0114-55	14	* Washer, Lock – Spring (M10)	42	234-0944	2	Guard, Fan
11	526-2120	6	* Washer, Flat (M10)	43	821-6001-02	12	Screw, Self-Locking – Hex Washer Head (M5 x 12mm)
12	508-1086	1	* Grommet (Used On Some Early Models)	44	720-1146	8	Screw, Cap – Hex Head (M20 x 60mm)
13	232-3782	1	* Block, Main Terminal	45	526-0450	8	Washer, Flat (M20)
14	232-3785-02	3	* Bar, Terminal Link	46	232-3775-01	1	Spacer, Drive Disc (5/8" Thk)
15	800-2084	1	* Screw, Cap – Hex Head (M10 x 16mm)	47	232-3744	4	Disc, Drive
16	800-2090	1	* Screw, Cap – Hex Head (M10 x 45mm)	48	232-3523	2	Bracket, Generator Lifting
17	—	1	Rotor Assembly, Generator – Complete (See Page 86 For Part Numbers) (Includes Parts Marked #)	49	800-3017-55	4	Screw, Cap – Hex Head (M12 x 35mm)
18	515-0300-06	1	# Key	50	850-0114-56	4	Washer, Lock – Spring (M12)
19	201-3508	1	# Rotor Assembly, Exciter (Includes Parts Marked +)	51	338-3348	1	Harness, Wiring (5 Wire, 23") (4,5,6,7,8 to 4,5,6,7,8)
20	357-0093	1	## Rectifier Assembly (Includes Diodes and Varistor)	52	232-4011	1	Spacer, Mounting
21	800-2045	4	## Screw, Cap – Hex Head (M6 x 75mm)	53	403-2987	2	Spacer, Mounting (4" x 4" x 1-3/4" Thk)
22	850-2006	4	## Washer, Lock – Spring (M6)	54	800-0195	2	Screw, Cap – Hex Head (1-8 x 4")
23	526-2080	4	## Washer, Flat (M6)	55	850-0086	2	Washer, Lock – Spring (1")
24	870-2064-02	6	## Nut, Hex (M5)	56			Screw, Cap – Hex Head – Grade 8
25	526-2060	6	## Washer, Flat (M5)		800-0092	8	1/2-13 x 1-1/2"
26	249-0797	1	Kit, Diode (Includes Varistor And All Diodes)		800-0094	4	1/2-13 x 2" (3 and 9 O'Clock Positions)
27	510-0168	1	# Bearing, Ball	57	805-0033	6	Bolt, Place (5/8-11 x 1-1/8") Grade 8
28	518-0018	1	# Ring, Retaining	58	850-0060	12	Washer, Lock – Spring (1/2")
29	232-3518-01	1	# Housing, Bearing	59	526-0416	6	Washer, Flat (5/8")
30	860-2006	2	# Nut, Hex (M5)	60	800-2242	4	Screw, Cap – Hex Head (M24 x 70mm)
31	850-2005	2	# Washer, Lock – Spring (M5)	61	332-3196	1	Clamp, "J"
32	526-2060	2	# Washer, Flat (M5)				
33	232-3981-01	1	# Cover, Bearing Housing				
34	800-2087	4	# Screw, Cap – Hex Head (M10 x 30mm)				

* – Parts Included In Generator Stator Assemblies

– Parts Included In Generator Rotor Assemblies

+ – Parts Included In 201-3508 Exciter Rotor Assembly

Permanent Magnet Generator Model HC5 Generators



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REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-6001-02	3	Screw, Self-Locking – Hex Washer Head (M5 x 12mm)	6	850-0114-54	4	Washer, Lock – Spring (M8)
2	338-2508	1	Harness, Wiring – PMG (3 Wire, 30") (Includes Housing Connector – Ref No. 13) (P2, P3, P4 to P2, P3, P4)	7	232-3526	4	Clamp, Stator
3	234-0890	1	Cover	8	220-4396	1	Stator, Exciter – PMG (Includes Four Mounting Spacers)
4	232-3527	3	Spacer, Mounting	9	815-0825	1	Bolt, Hex Head (M10 x 120mm)
5	800-3017-18	4	Screw, Cap – Hex Head (M8 x 16mm)	10	850-2010	1	Washer, Lock – Spring (M10)
				11	201-3510	1	Rotor, Exciter – PMG
				12	775-0049	1	Pin
				13	332-3021	1	Connector, Housing (3 Place)

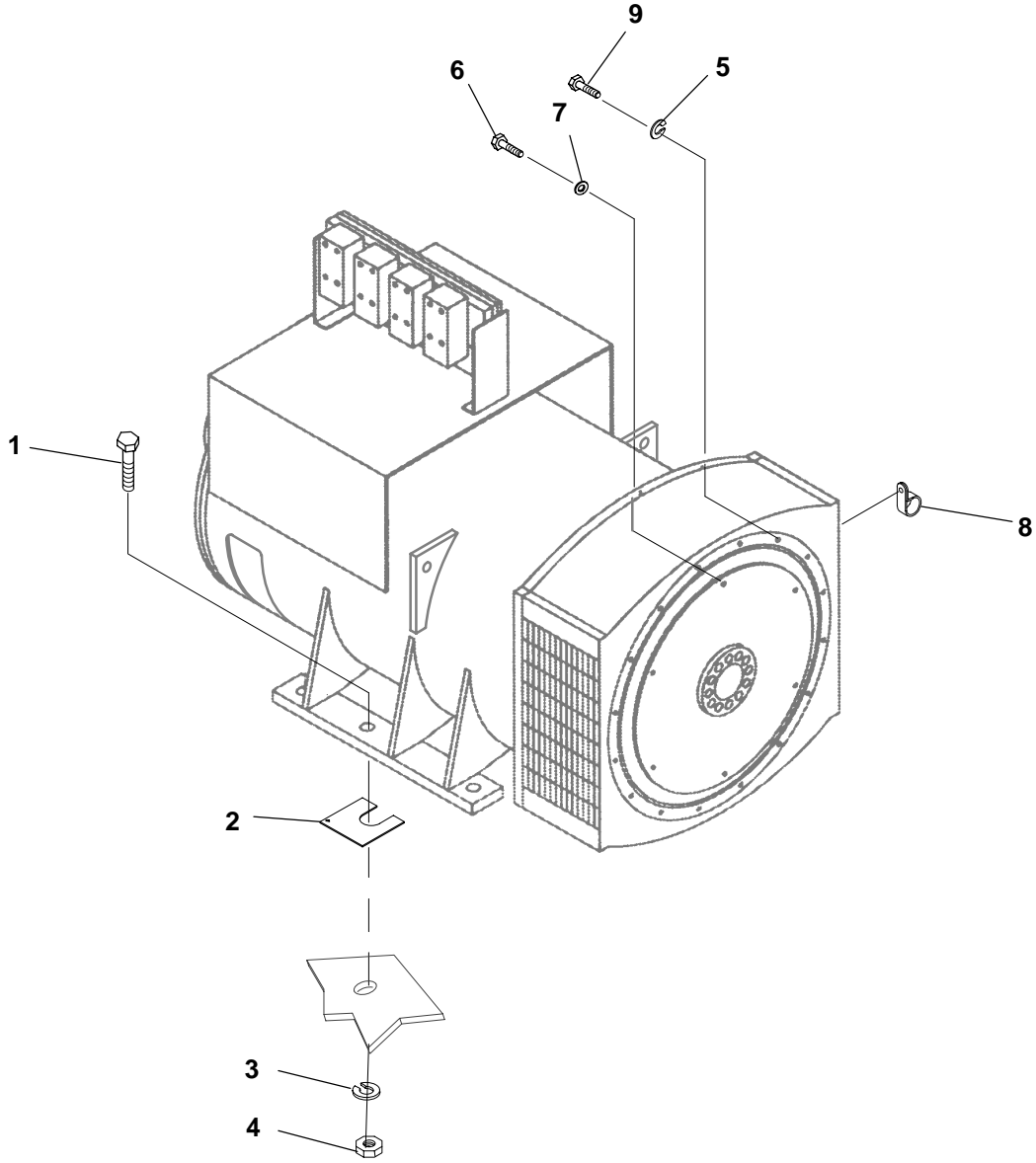
Generator Assembly Numbers Model HC6 Generators

Component parts for the following Frame 6 generators cannot be ordered from Onan. Refer to the Newage nameplate and supply all available information. Contact your nearest Newage distributor for assistance in ordering component parts. For a COMPLETE generator replacement, use the 249-XXXX-XX Cummins/Onan identification number.

Cummins/Onan Identification Number	Generator Model
249-0191-04	MV634WJ
249-5065-01	HC634G
249-5079-02	MV634WJ
249-5088-01	HC634G
249-5102-01	HC634G

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B302, B324, B325, B326

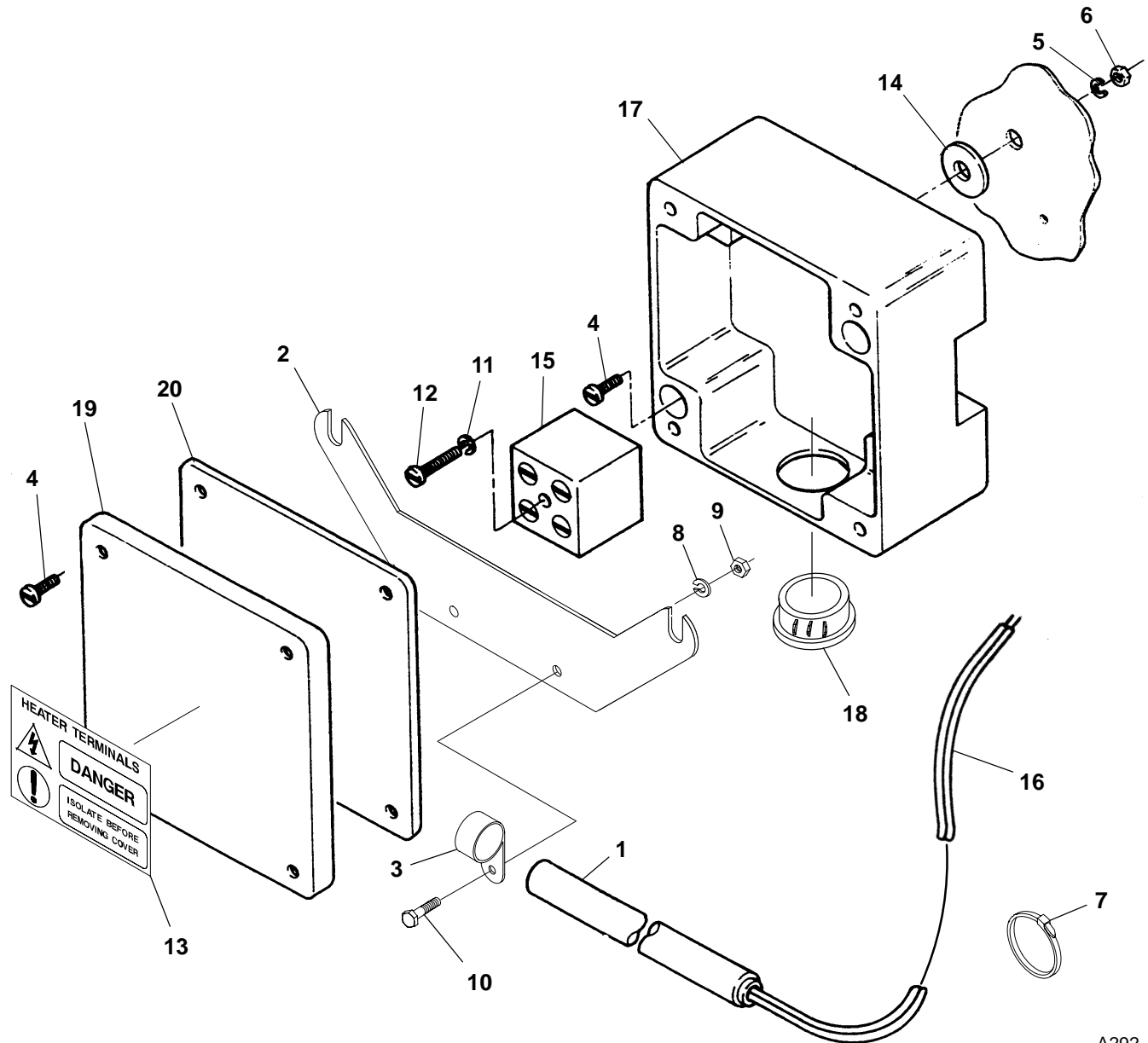
**Generator Mounting
Model HC6 Generators**



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REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0273	2	Screw, Cap – Hex Head (1-1/4-7 x 4")	4	862-0017	2	Nut, Hex (1-1/4-7)
2			Shim (Quantity Used As Required) (Used On Some Early Models)	5	850-0060	16	Washer, Lock – Spring (1/2")
	232-3710-01	4	1/64" Thk	6	805-0033	6	Bolt, Place (5/8-11 x 1-1/8") Grade 8
	232-3710-02	4	5/64" Thk	7	526-0416	6	Washer, Flat (5/8")
	232-3710-03	4	1/8" Thk	8	332-3196	1	Clamp, "J"
3	850-0092	2	Washer, Lock – Spring (1-1/4")	9	800-0576	16	Screw, Cap – Hex Head (1/2-13 x 1-3/4") Grade 8

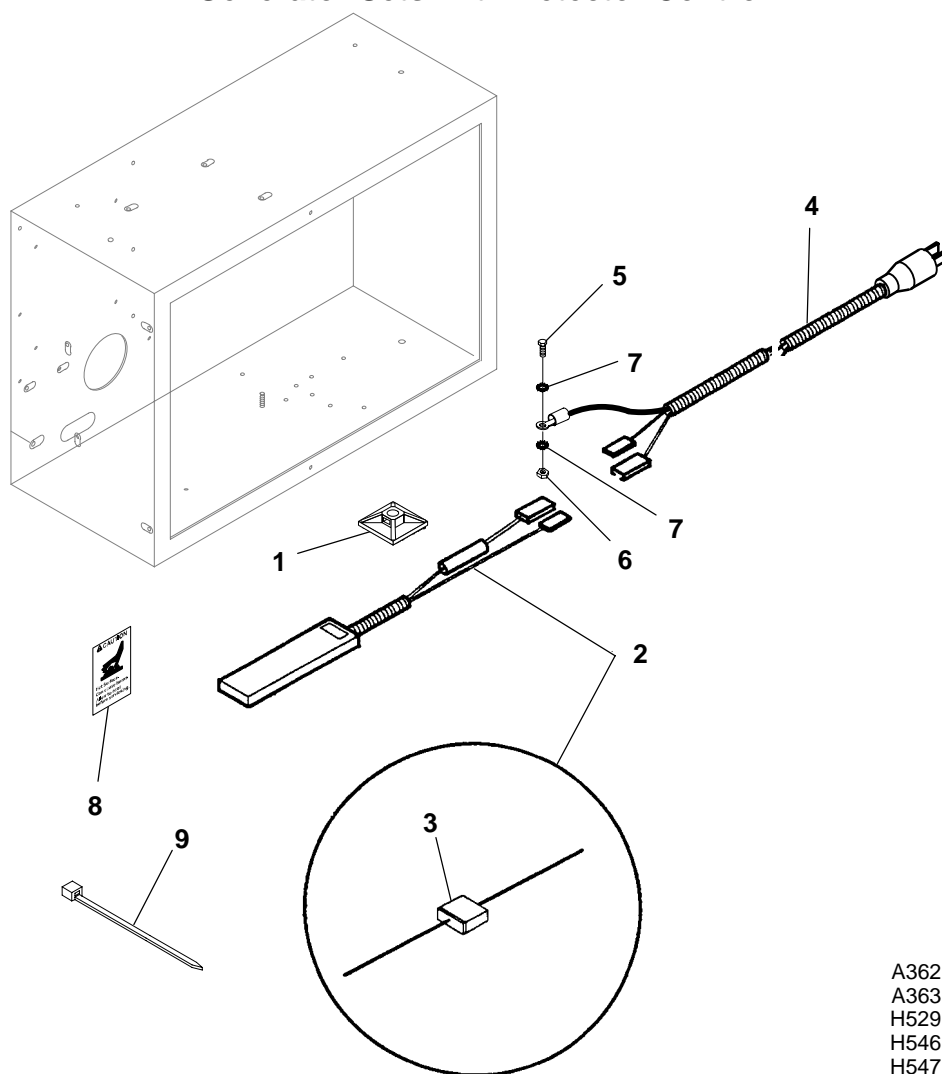
Generator Heater



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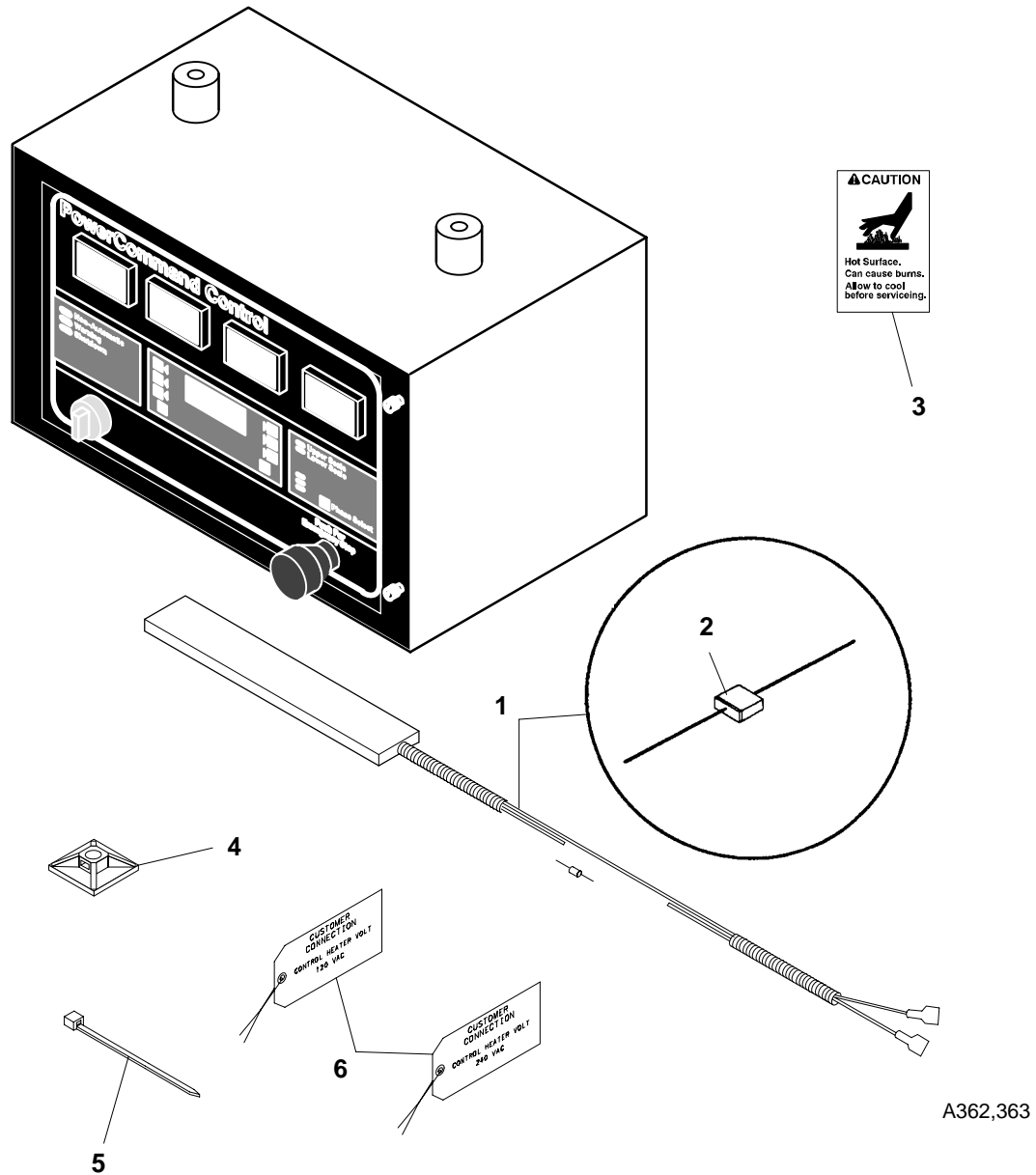
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0438-05	1	Cartridge, Heater (300 Watt)	11	850-2003	1	Washer, Lock – Spring (M3)
	333-0438-06	1	120 Volt	12	822-3047	1	Screw, Machine – Pan Head (M3 x 20mm)
2	232-3849	1	240 Volt	13	098-7281	1	Label, Heater Warning
3	332-3024-14	2	Bracket, Mounting – Heater	14	508-0228	1	Grommet
4	822-3075	6	Clamp, Loop	15	332-3023	1	Block, Terminal
			Screw, Machine – Slotted Pan Head (M4 x 16mm)	16	898-1254-25	1	Sleeving – Heater Leads (59")
5	850-2004	2	Washer, Lock – Spring (M4)	17	330-0142	1	Box, Terminal (Includes Cover and Gasket – Ref No. 19 and 20)
6	860-2005	2	Nut, Hex (M4)				
7	332-1389	4	Tie, Cable	18	517-0021	1	Plug, Dot Button
8	850-2005	2	Washer, Lock – Spring (M5)	19	330-0141-03	1	Cover, Box
9	860-2006	2	Nut, Hex (M5)	20	330-0141-04	1	Gasket, Cover
10	800-2008	2	Screw, Cap – Hex Head (M5 x 16mm)				

Control Heater Generator Sets With Detector Control



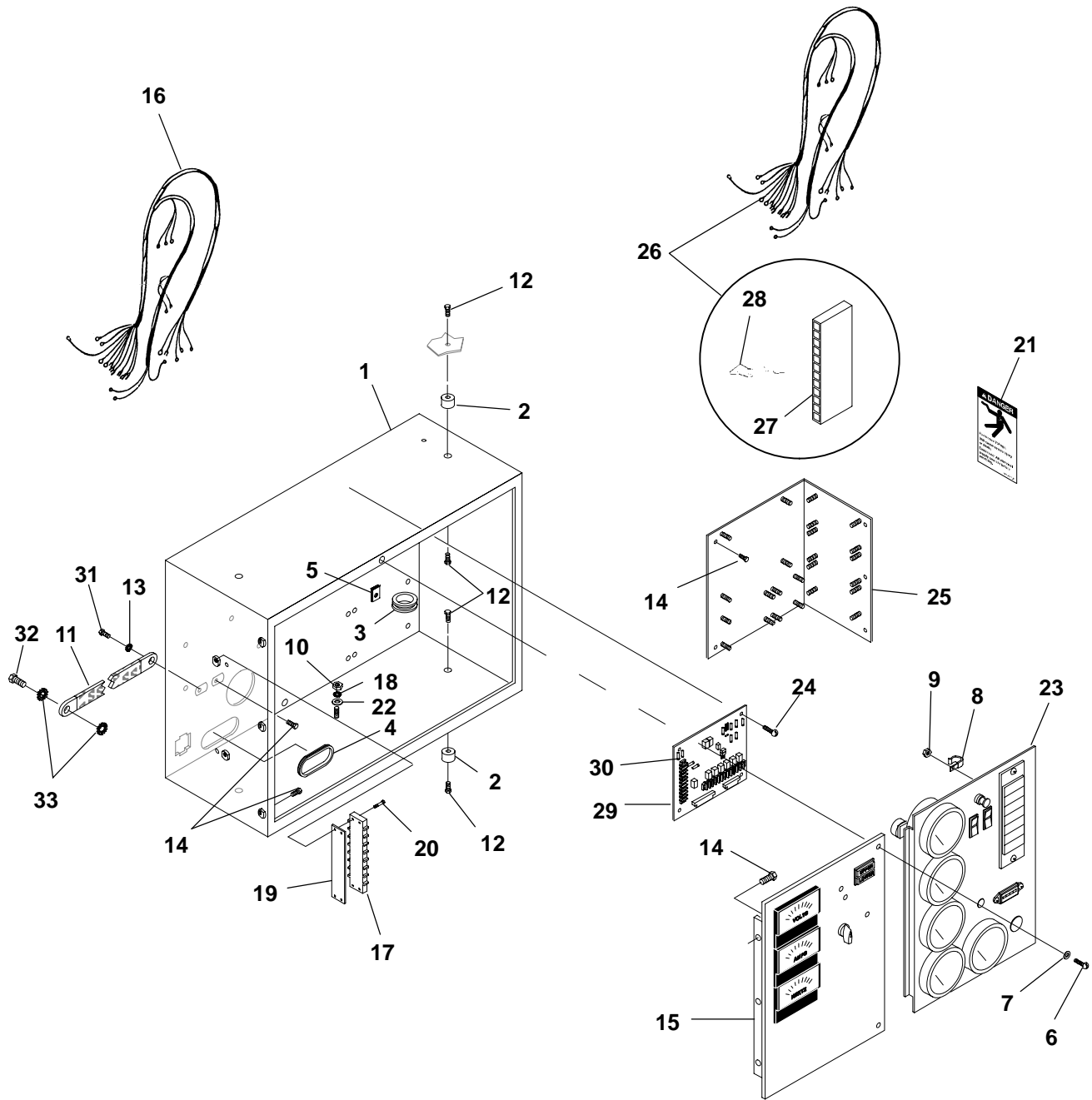
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2420	2	*# Mount, Cable	6	870-0257	1	* Nut, Locking – Hex (5/16–18)
2			Heater Assembly, Control – 100 Watt (Includes Rectifier – Ref No. 3)	7	856-0008	2	* Washer, Lock – EIT (5/16")
	300-4515-01	1	* 120 Volt	8	098-6195	1	*# Label, Caution – Hot Surface
	300-4515-02	1	# 240 Volt	9	332-0942	3	*# Tie, Cable
3	357-0114	1	*# Rectifier (3 Amp)	* – Parts Used in 120 Volt Control Heater Application # – Parts Used in 240 Volt Control Heater Application			
4	335-0173	1	* Cable, Heater (7')				
5	800-0024	1	* Screw, Cap – Hex Head (5/16–18 x 3/4")				

Control Heater Generator Sets With PowerCommand Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater Assembly, Control – 100 Watt (Includes Rectifier)	4	332-2420	1	Mount, Cable
	300-4515-01	1	120 Volt	5	332-0942	1	Tie, Cable (Quantity Used As Required)
	300-4515-02	1	240 Volt	6			Tag, Heater
2	357-0114	1	Rectifier (3 Amp)		098-6927	1	120V
3	098-6195	1	Label, Caution		098-6828	1	240V

Detector Control

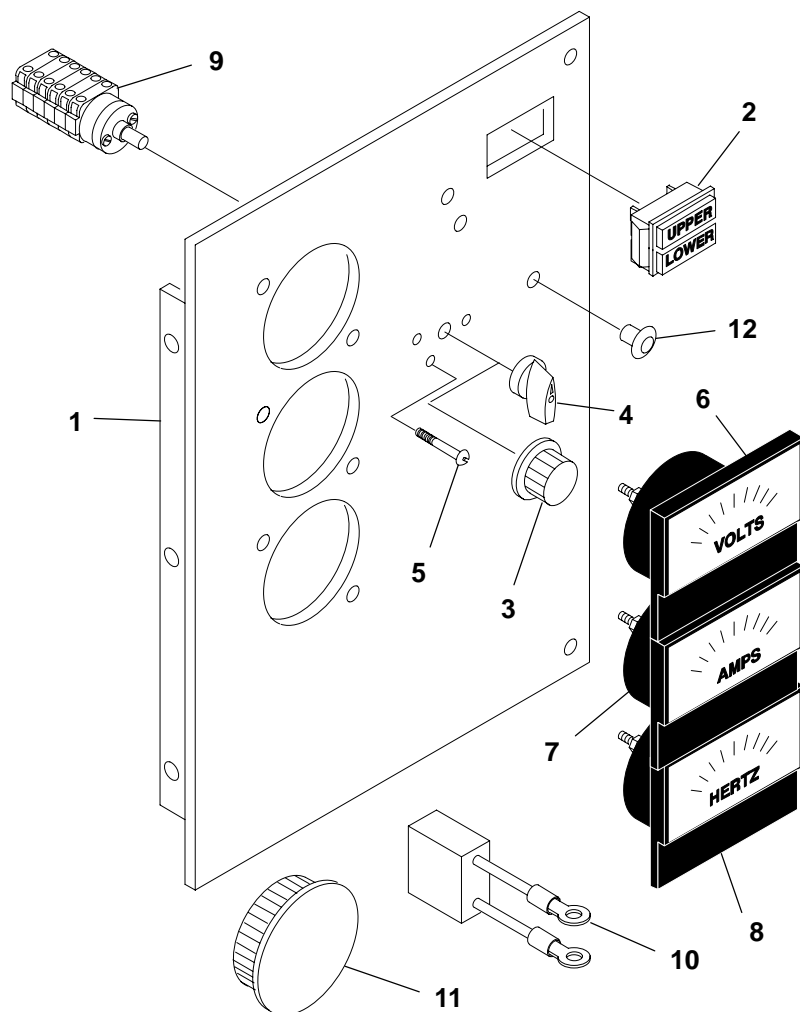


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Detector Control

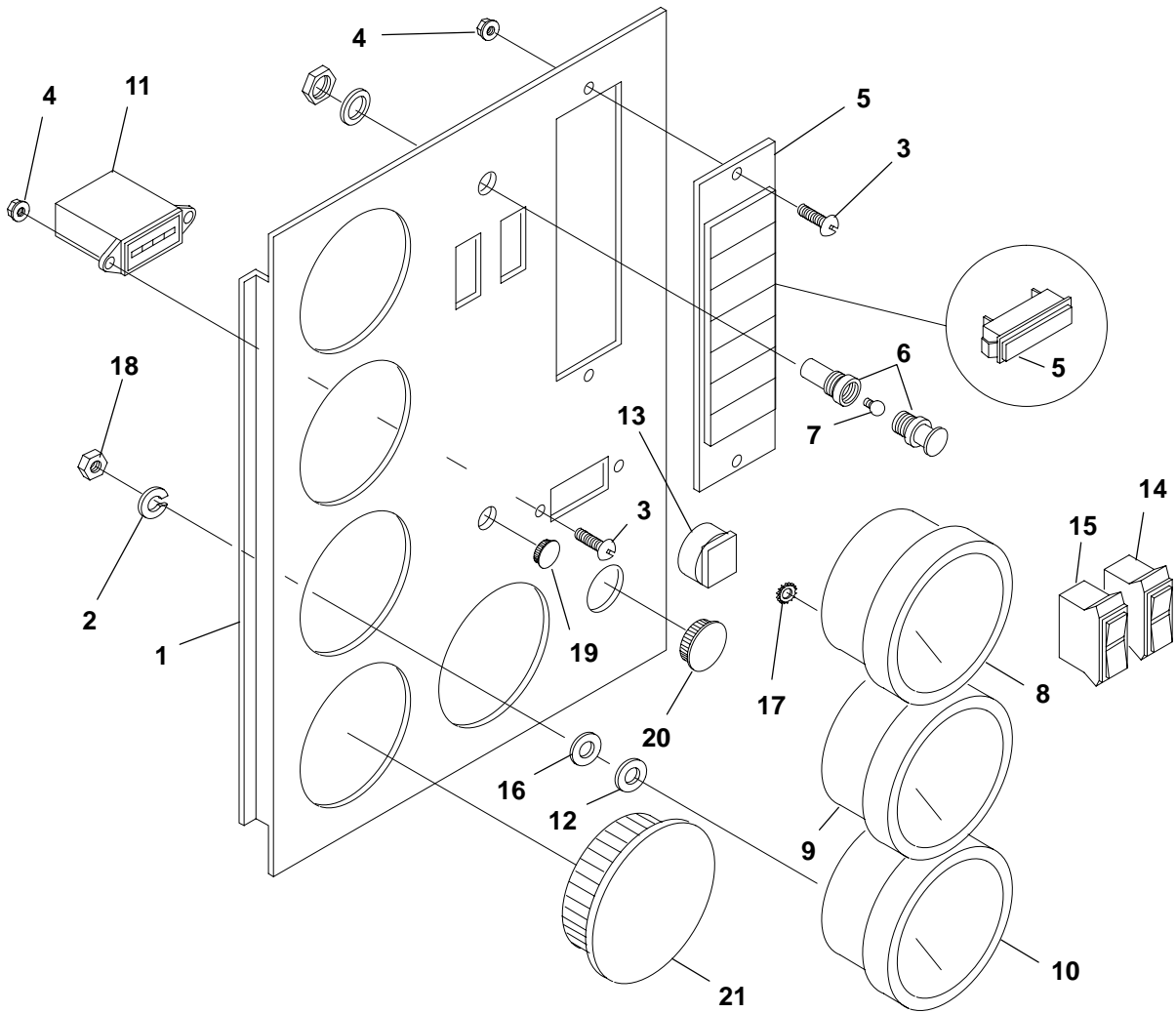
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-8065	1	Box, Control	23	—	1	Door, Assembly – Control – DC (See Page 99 For Components)
2	402-0527	4	Isolator, Vibration				
3	508-0001	1	Grommet (Fits 1-1/16" Hole)	24	815-0937	4	Screw, Pan Head (6-32 x 5/16")
4	508-0051	1	Grommet (Fits 2" Hole)	25	301-8851	1	Bracket, DC Control
5	406-0332	2	Receptacle, Fastener	26	338-3252	1	Harness, DC (Includes Connector Housing and Contact Pins [Ref No. 27 and 28])
6	406-0333	2	Stud, Fastener				
7	406-0334	2	Washer, Stud Retainer	27	323-1308	1	Housing, Connector (12 Place) (J4)
8	332-0052	2	Clip, Wire (5/8")	28	323-1302	10	Pin, Contact
9	870-0131	4	Nut, Hex W/ET (#10-32)	29			Board, Printed Circuit (24V) (Includes Fuses [Ref No. 30])
10	871-0015	1	Nut, Hex (1/4-20)		300-4295	1	7 Light Assembly
11	337-0049	3	Strap, Ground		300-4297	1	12 Light Assembly
12	821-0014	8	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")	30			Fuse (32V)
13	856-0008	4	Washer, Lock – W/EIT (5/16")				Cylinder Shaped (Used On Some Early Models)
14	821-0004	8	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16")		321-0270	2	20 Amp (F1, F2)
15	—	1	Door Assembly – Control – AC (See Page 98 For Components)		321-0231	1	15 Amp (F3)
16	338-2278	1	Harness, Wiring – AC Control Door Assembly to TB21 Terminal Block (Includes TB21 Terminal Block [Ref No. 17])		321-0094	2	5 Amp (F4, F5)
17	332-0607	1	Block, Terminal – 12 Place (TB21)		321-0307-03	2	U Shaped
18	853-0008	1	Washer, Lock – W/ET (#10)		321-0307-06	1	5 Amp (Tan) (F4, F5)
19	332-2723	1	Strip, Marker		321-0307-07	2	15 Amp (Light Blue) (F3)
20	815-0901-06	2	Screw, Machine – Hex Head (#6-32 x 5/8")	31	800-0024	3	20 Amp (Yellow) (F1, F2)
21	098-5387	2	Label, Danger				Screw, Cap – Hex Head (5/16-18 x 1/2")
22	526-0018	1	Washer, Flat (1/4")	32	821-0010	1	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
				33	856-0006	2	Washer, Lock – EIT (1/4")

AC Control Door Assembly Generator Sets With Detector Control



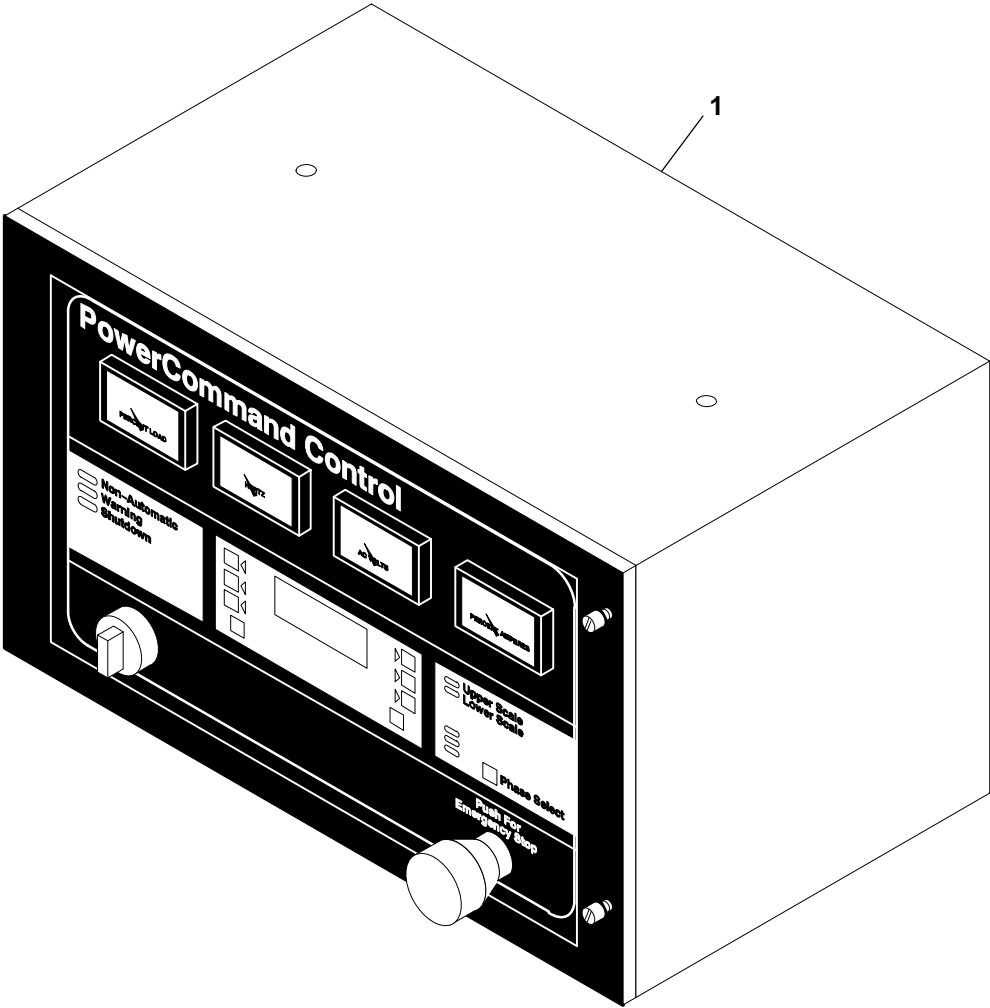
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Door, Control – AC	6			Voltmeter (M21)
	301-9054-01	1	Doors with Four Round Meter Holes		302-1148	1	Scale Reads 0-300/600
	301-9054-02	1	Doors with Three Round Meter Holes		302-1753	1	Scale Reads 0-750
	301-9054-03	1	Doors Without Round Meter Holes		302-1938	1	Scale Reads 0-5200
	301-9054-04	1	Doors with Six Round Meter Holes	7			Ammeter (M22)
					302-1683	1	Scale Reads 0-100/200
					302-1728	1	Scale Reads 0-600/1200
					302-1729	1	Scale Reads 0-750/1500
					302-1798	1	Scale Reads 0-1000/2000
2	322-0363	1	Light, Indicator – Upper/Lower Scale (DS21, DS22)	8	302-1968	1	Meter, Frequency (M23)
3	303-0032	1	Knob, Rotary Switch (Earlier Round Style)	9	308-1052	1	Switch, Rotary – Voltmeter/Ammeter (Includes Knob) (S21)
4	308-1082	1	Knob, Rotary Switch (Later Wedge Style)	10	355-0189	1	Capacitor – Voltmeter (.1 Mfd., 500 WVDC) (C21)
5	815-0875-02	3	Screw, Machine – Round Head (M4 x 8mm)	11	517-0302	1	Plug, Hole (Fits 2-1/4" Hole)
				12	517-0131	1	Plug, Hole (Fits 3/8" Hole) Used On Some Early Models

DC Control Door Assembly Generator Sets With Detector Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9055-01	1	Door, Control – DC	10	302-1642	1	Voltmeter (M13)
	301-9055-02	1	Doors With Five Round Gauge Holes	11	302-2002	1	Hourmeter (M14)
2	850-0030	8	Doors With Three Round Gauge Holes	12	526-0409	8	Washer, Nylon (3/8" OD x .194" ID x 1/8" Thick)
3	815-0385	4	Washer, Lock – Spring (#10)	13	193-0250	2	Resistor (Mounted on Oil Pressure and Water Temperature Gauges) (R12, R13)
4	870-0183	4	Screw, Machine – Round Head (#6-32 x 1/2")	14	308-1010	1	Switch, Rocker – Lamp Test/Reset Panel Lamp – Preheat (S11)
5			Nut, Hex – W/ET (#6-32)	15	308-1011	1	Switch, Rocker – Run/Stop/Remote (S12)
	322-0359-02	1	Light Assembly, Indicator (Includes Wiring Harness and Connector Housing) (A12)	16	526-0049	16	Washer, Flat (#10)
	322-0360-02	1	7 Light Assembly	17	853-0008	1	Washer, Lock – ET (#10)
6	322-0361	1	12 Light Assembly	18	871-0010	16	Nut, Hex – Brass (#10-32)
7	322-0017	1	Light, Panel (DS11)	19	517-0131	1	Plug, Hole (Fits 3/8" Hole)
			Bulb, Panel Light – Replacement	20	517-0137	1	Plug, Hole (Fits 7/8" Hole)
8	193-0466	1		21	517-0301	2	Plug, Hole (Fits 2" Hole)
9	193-0351	1	Gauge, Oil Pressure (M11)				
			Gauge, Water Temperature (M12)				

PowerCommand Control

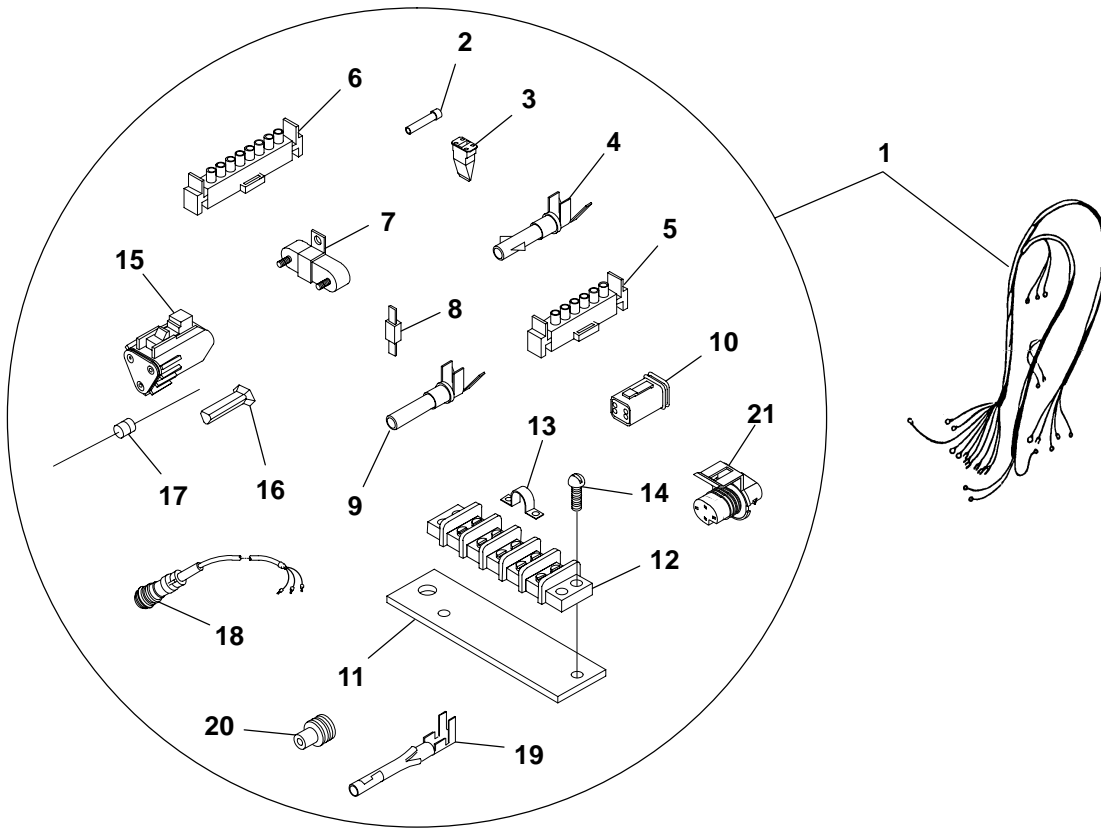


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REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	—	1	Control, PowerCommand

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Note: For PowerCommand Control Service Replacement Parts, Order PowerCommand Control For Generator Sets Parts Catalog Number 960–0205B.			

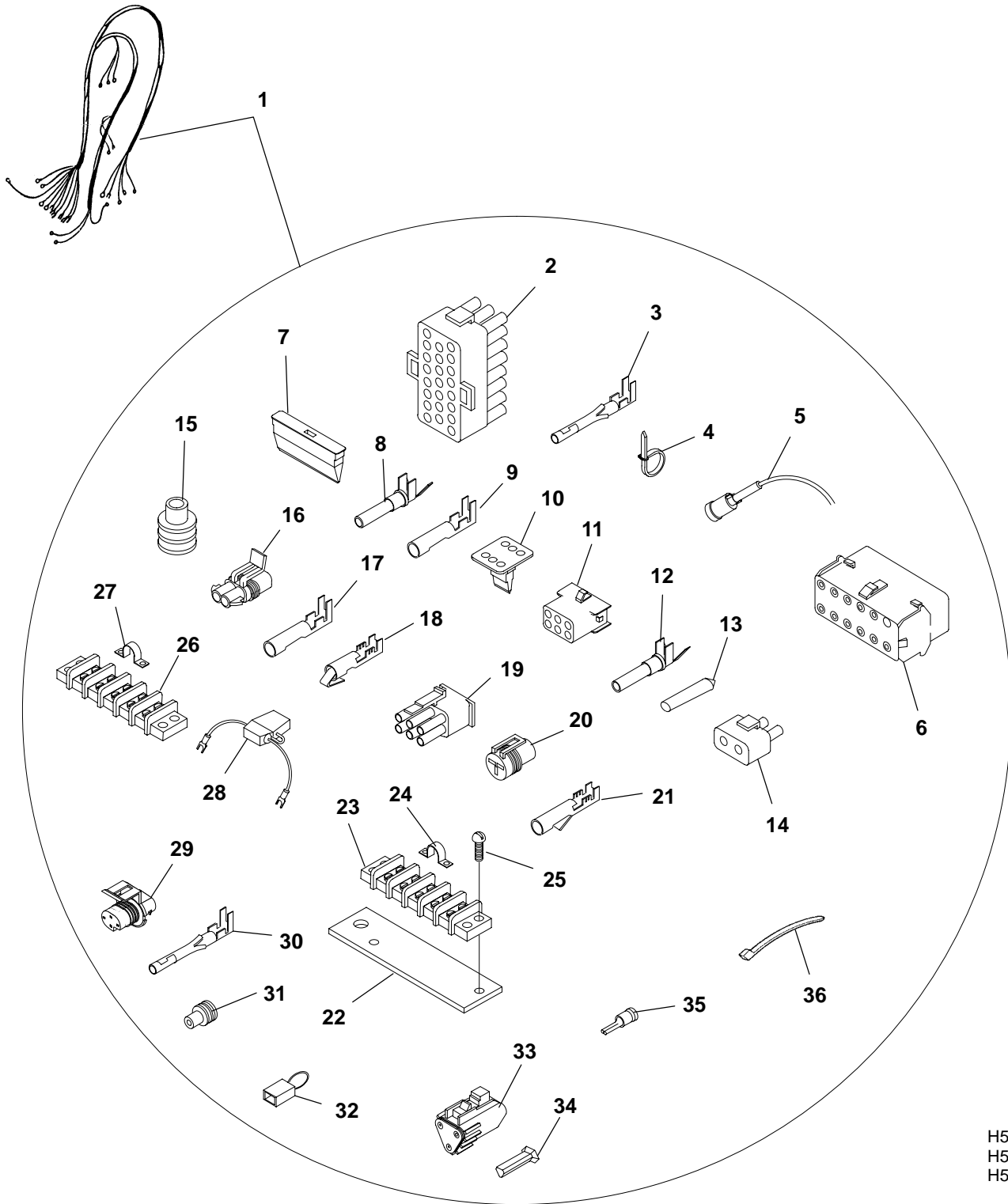
Wiring Harness Engine to Control Generator Sets With Detector Control



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REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Engine To Control – Generator Sets With Detector Control	7	353-0094-01	1	*#♦ Resistor (R1)
	338-2984	1	DFEB Spec J Through K DFEC Spec C Through D DFED Spec A DFFB Begin Spec J (Includes Parts Marked *)	8	357-0030	1	*#♦ Rectifier (CR1)
	338-3344	1	DFEC Spec L Through N DFEC Spec E Through G DFED Spec B Through D (Includes Parts Marked #)	9	323-1492	5	#♦ Socket, Contact (Used In E1, P3)
	338-3761	1	DFEC Spec P DFEC Spec H DFED Spec E (Includes Parts Marked ♦)	10	323-1546	1	#♦ Plug, Connector (4 Place) (E1)
	338-3974	1	DFEC Begin Spec R DFEC Begin Spec J DFED Begin Spec F (Includes Parts Marked ◊)	11			Bracket, Mounting – Terminal
2	323-1591	1	#♦ Plug, Seal (Used In E1)		319-2006-01	1	#♦ Marked "26" (T26)
3	323-1548	1	#♦ Plug, Seal (Used In E1)		319-2006-02	1	#♦ Marked "GND" (GND-ENG)
4	323-1200	11	*#♦ Socket, Contact (Used In J1, J2)	12	332-0604	2	#♦ Block, Terminal (5 Place)
5	323-1304	1	*#♦ Housing, Connector (6 Place) (J2)	13	332-1043	8	#♦ Jumper
6	323-1306	1	*#♦ Housing, Connector (8 Place) (J1)	14	815-0538	4	#♦ Screw, Machine – Round Head – W/IT (#8-32 x 1/2")
				15	323-1493	1	#♦ Plug, Connector (3 Place) (P3)
				16	323-1503	1	#♦ Wedge (Used In P3)
				17	359-0051	1	*#♦ Diode
				18	338-1765-04	1	* Cable, Magnetic Pickup (60")
				19	323-1709	4	♦ Socket, Contact (Used in S7)
				20	323-1708	4	♦ Seal, Cable (Used in S7)
				21	323-1765	1	♦ Housing Connector (4-Pin) (S7)
				* – Parts Included In 338-2984 Wiring Harness			
				# – Parts Included In 338-3344 Wiring Harness			
				♦ – Parts Included In 338-3761 Wiring Harness			
				◊ – Parts Included In 338-3974 Wiring Harness			

**Wiring Harness
Engine To Control**
Generator Sets With PowerCommand Control
DFEB Spec J Through P, DFEC Spec C Through H
DFED Spec A Through E, DFFB Begin Spec J



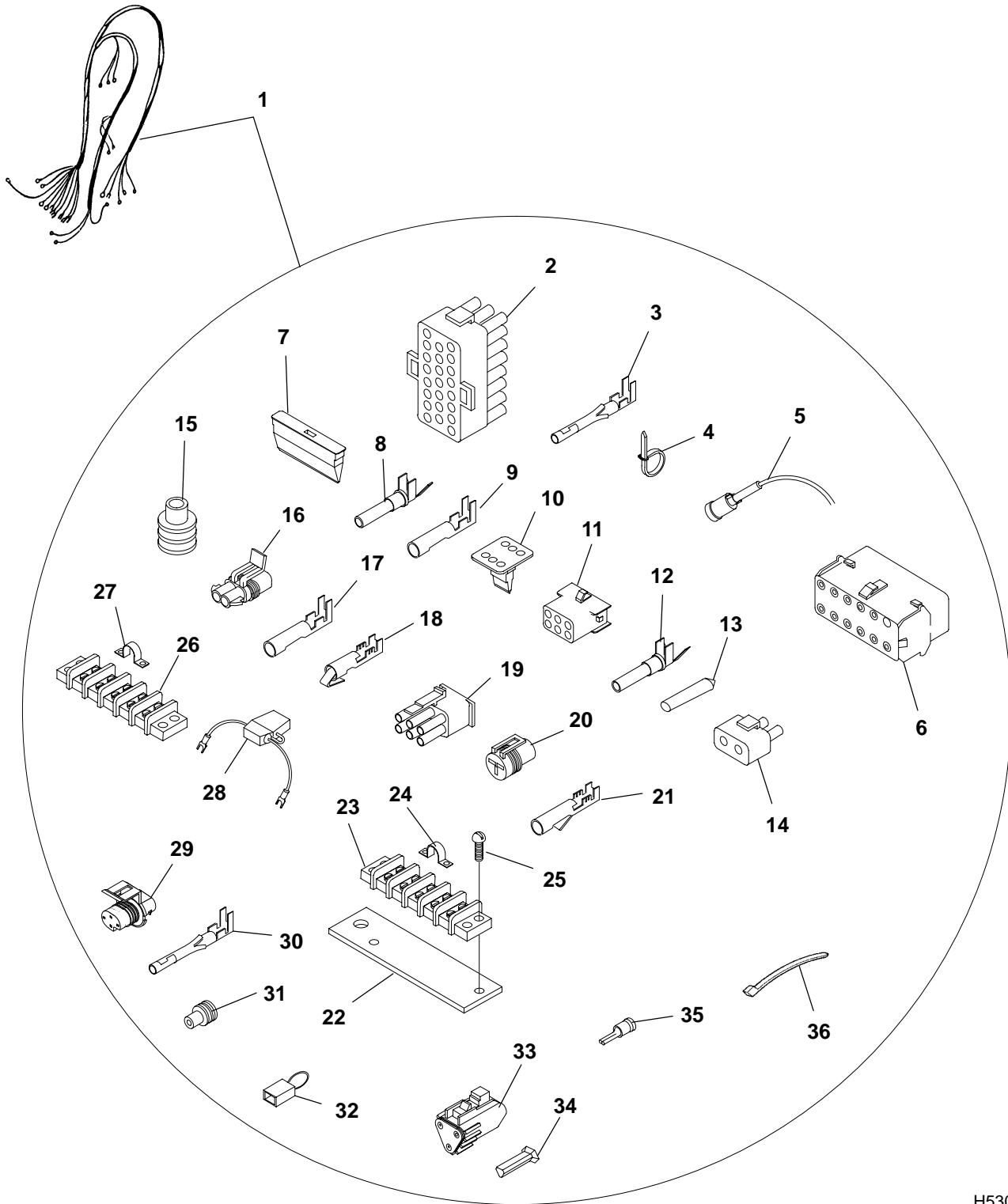
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**Wiring Harness
Engine To Control
Generator Sets With PowerCommand Control
DFEB Spec J Through P, DFEC Spec C Through H
DFED Spec A Through E, DFFB Begin Spec J**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Engine To Control – Generator Sets With PowerCommand Control	9	323-1648	5 *+##◆	Socket, Contact (Used In P10)
			HC5 Generators	10	323-1624	1 *+##◆	Wedge (Used In P7)
			DFEB Spec J Through K	11	323-1623	1 *+##◆	Plug, Connector (6 Place) (P7)
	338-2605	1	DFEC Spec C Through D				Socket, Contact
			DFED Spec A				HC5 Generators
			DFFB Begin Spec J		323-1492	6 *◆	DFEB Spec J Through K
			(Includes Parts Marked *)				DFEC Spec C Through D
	338-3398-01	1	DFEB Spec L Through N				DFED Spec A
			DFEC Spec E Through G		323-1492	9 +##◆	DFFB Begin Spec J
			DFED Spec B Through D				DFEB Begin Spec L
			(Includes Parts Marked +)				DFEC Begin Spec E
	338-3762-01	1	DFEB Spec P				DFED Begin Spec B
			DFEC Spec H		323-1492	6 *◆	HC6 Generators
			DFED Spec E				DFED Spec A
			(Includes Parts Marked #)		323-1492	9 +##◆	DFFB Begin Spec J
			HC6 Generators				DFED Spec B Through D
	338-3038	1	DFED Spec A	13	323-1615	1 *+##◆	Plug (Used In P4, P5, P6) (Quantity Used As Required)
			DFFB Begin Spec J				
			(Includes Parts Marked ◆)	14	323-1445	6 *+##◆	Seal (Used In E2, E3, E4, E6, E7)
	338-3398-02	1	DFED Spec B Through D				
			(Includes Parts Marked ◇)	15	323-1444	2 *+##◆	Socket, Contact (Used In E6, E7)
	338-3762-02	1	DFEB Spec P				
			DFEC Spec H	16	332-3096-01	4 *+##◆	Socket, Contact (Used In E2, E3, E4)
			DFED Spec E				
			(Includes Parts Marked #)	17			Socket, Connector (2 Place) (E6, E7)
2			Plug, Connector (23 Place)				HC5 Generators
	323-1605-03	1 *+##◆	Colored Grey (P5)				DFEB Spec J Through K
	323-1605-02	2 *+##◆	Colored Natural (P4, P6)		323-1637	1 *◆	DFEC Spec C Through D
3			Socket, Contact (Used In P4, P5, P6)				DFED Spec A
			HC5 Generators				DFFB Begin Spec J
	323-1614-01	51 *	DFEB Spec J Through K		323-1637	2 +##◆	DFEB Begin Spec L
			DFEC Spec C Through D				DFEC Begin Spec E
			DFED Spec A				DFED Begin Spec B
			DFFB Begin Spec J				HC6 Generators
	323-1614-01	50 +##	DFEB Spec L Through P		323-1637	1 *◆	DFED Spec A
			DFEC Spec E Through H				DFFB Begin Spec J
			DFED Spec B Through D		323-1637	2 +##◆	DFED Spec B Through D
	323-1614-01	50 ◆◆	HC6 Generators				Socket, Connector (2 Place) (E2, E3, E4)
			DFED Spec A Through D	18			HC5 Generators
			DFFB Begin Spec J				DFEB Spec J Through K
4	332-1445	A/R *+##◆	Tie, Cable (Quantity Used As Required)		323-1540	2 *◆	DFEC Spec C Through D
							DFED Spec A
5			Cable, Magnetic Pickup (Includes Indented Sockets Listed Below) (P1)				DFFB Begin Spec J
			HC5 Generators (84")		323-1540	3 +##◆	DFEB Begin Spec L
	338-2592-01	1 *+##	HC6 Generators (97")				DFEC Begin Spec E
	338-2592-02	1 ◆◆	Socket, Contact				DFED Begin Spec B
	323-1614-01	3 *+##◆	Housing, Connector (12 Place) (J12)				HC6 Generators
6	323-1580	1 *+##◆	Wedge (Used In J12)		323-1540	2 *◆	DFED Spec A
			Pin, Contact (Used In J12)				DFFB Begin Spec J
7	323-1581	1 *+##◆			323-1540	3 +##◆	DFED Spec B Through D
8	323-1491	6 *+##◆					

Continued...

**Wiring Harness
Engine To Control
Generator Sets With PowerCommand Control
DFEB Spec J Through P, DFEC Spec C Through H
DFED Spec A Through E, DFFB Begin Spec J**



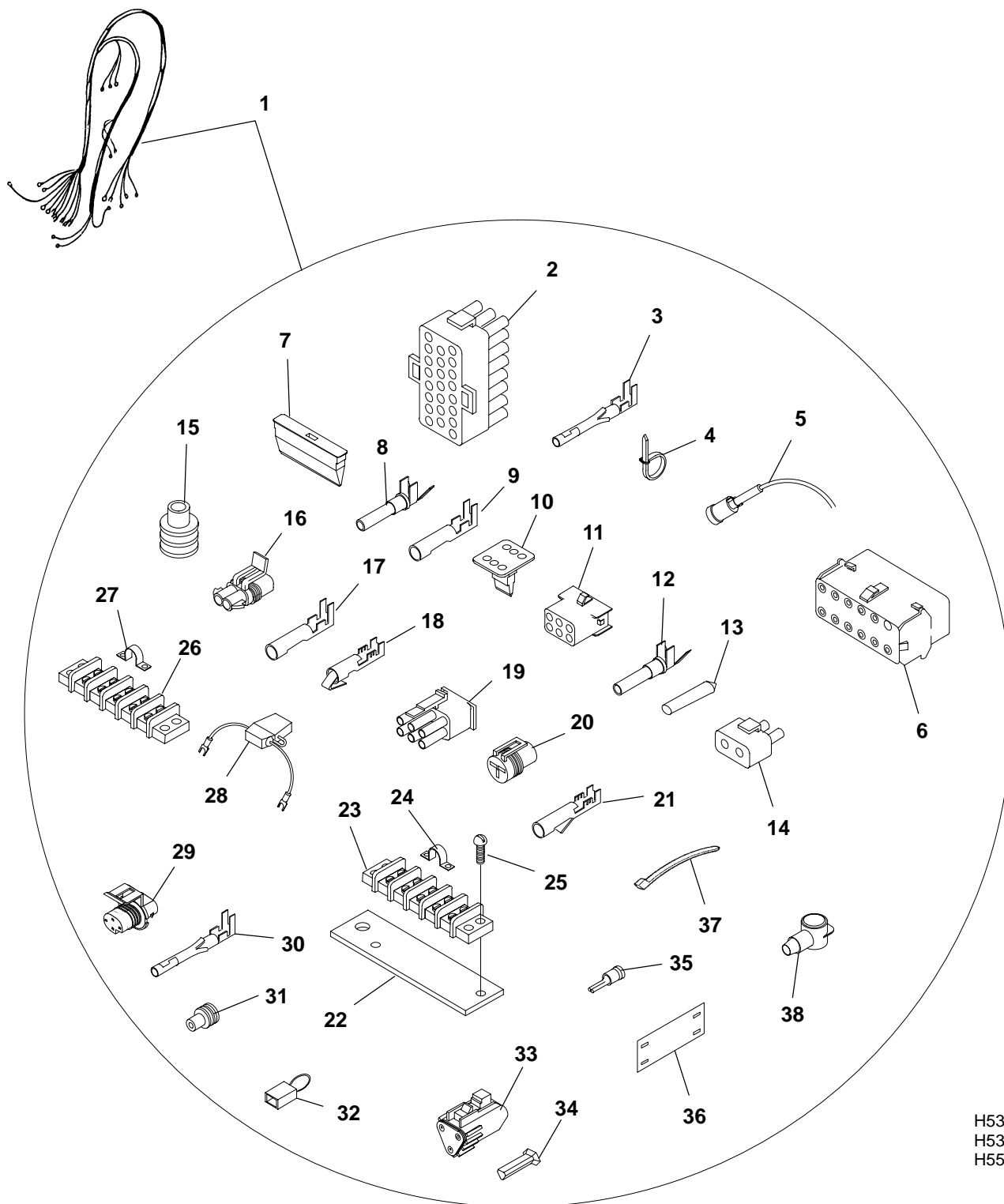
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**Wiring Harness
Engine To Control
Generator Sets With PowerCommand Control
DFEB Spec J Through P, DFEC Spec C Through H
DFED Spec A Through E, DFFB Begin Spec J**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
19	323-1643-01	1 *+##◆	Plug, Connector (6 Place) (P10)	32			Harness Assembly, Jumper (Includes Parts Indented Below – Socket, Seal, and Pin) (Used On E6, E7) HC5 Generators
20	323-1666	1 *+##◆	Socket, Connector (3 Place) (E1)				
21	323-1667	3 *+##◆	Socket, Contact (Used In E1)				
22			Bracket, Mounting – Terminal	338-3285	1 *◆		DFEB Spec J Through K DFEC Spec C Through D DFED Spec A DFFB Begin Spec J
	319-2006-01	1 *+##◆	Marked "26" (T26)				
	319-2006-02	1 *+##◆	Marked "GND" (GND-ENG)				
23	332-0604	2 *+##◆	Block, Terminal (5 Place)	338-3285	2 +##◆		DFEB Begin Spec L DFEC Begin Spec E DFED Begin Spec B
24	332-1043	8 *+##◆	Jumper				
25	815-0538	4 *+##◆	Screw, Machine – Round Head – W/IT (#8-32 x 1/2")				
26	332-0604	1 *+##◆	Block, Terminal (5 Place) (TB-BAT)	338-3285	1 *◆		HC6 Generators DFED Spec A DFFB Begin Spec J
27	332-1043	3 *+##◆	Jumper (Used On TB-BAT)	338-3285	2 +##◆		DFED Spec B Through D
28	321-0339	1 *+##◆	Holder Assembly, Fuse (Used On TB-BAT)	323-1652	1 *+##◆		Socket, Connector (2 Place)
			DFEB Spec J Through N	323-1445	2 *+##◆		Seal, Cable
			DFEC Spec C Through G	323-1718	2 *+##◆		Pin, Contact
			DFED Spec A Through D	33	323-1493	1 +##◆	Plug, Connector (3 Place)
			DFFB Begin Spec J	34	323-1503	1 +##◆	Wedge
			(Includes Indented Parts Listed Below)	35	332-3496	2 +##◆	Pin, Contact
	321-0325	1 *+##◆	Holder, Fuse	36	332-2774	A/R +##◆	Tie, Cable – Black (Quantity Used As Required)
	321-0307-07	1 *+##◆	Fuse – 20 Amp (Colored Yellow)				
29	323-1765	1	# Housing, Connector (S7)				
30	323-1709	4	# Socket, Contact (Used in S7)				
31	323-1708	4	# Seal, Cable (Used in S7)				

* – Parts Included In 338-2605 Engine Wiring Harness
+ – Parts Included in 338-3398-01 Engine Wiring Harness
– Parts Included in 338-3762-01 Engine Wiring Harness
◆ – Parts Included In 338-3038 Engine Wiring Harness
◇ – Parts Included in 338-3398-02 Engine Wiring Harness

**Wiring Harness
Engine To Control
Generator Sets With PowerCommand Control
DFEB Begin Spec R, DFEC Begin Spec J, DFED Begin Spec F**



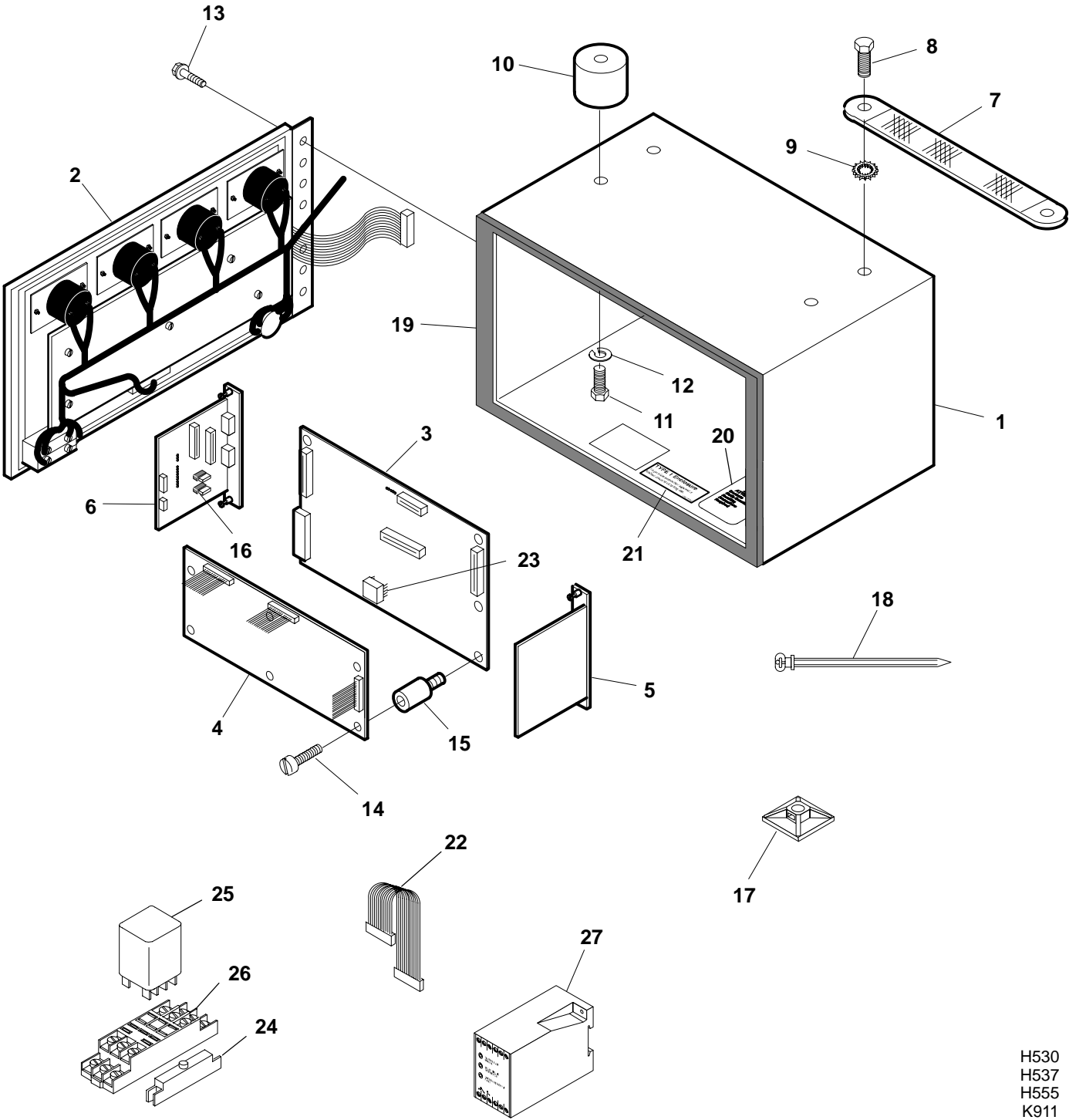
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**Wiring Harness
Engine To Control
Generator Sets With PowerCommand Control
DFEB Begin Spec R, DFEC Begin Spec J, DFED Begin Spec F**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Engine To Control – Generator Sets With PowerCommand Control (HC5 Generators)	18	323-1540	3	#+ Socket, Connector (2 Place) (E2, E3, E4)
	338-3976	1	DFEB Spec R	19	323-1643-01	1	#+ Plug, Connector (6 Place) (P10)
			DFEC Spec J	20	323-1666	1	#+ Socket, Connector (3 Place) (E1)
			DFED Spec F	21	323-1667	3	#+ Socket, Contact (Used In E1) Bracket, Mounting – Terminal
			(Includes Parts Marked #)	22			#+ Marked "26" (T26)
	338-4058-01	1	DFEB Begin Spec S		319-2006-01	1	#+ Marked "GND" (GND-ENG)
			DFEC Begin Spec K		319-2006-02	1	#+ Block, Terminal (5 Place)
			DFEC Begin Spec G	23	332-0604	2	#+ Jumper
			(Includes Parts Marked +)	24	332-1043	8	#+ Screw, Machine – Round Head – W/IT (#8-32 x 1/2")
2			Plug, Connector (23 Place)	25	815-0538	4	#+ Block, Terminal (5 Place) (TB-BAT)
	323-1605-03	1	#+ Colored Grey (P5)	26	332-0604	1	#+ Jumper (Used On TB-BAT)
	323-1605-02	2	#+ Colored Natural (P4, P6)	27	332-1043	3	#+ Holder Assembly, Fuse (Used On TB-BAT) (Includes Indented Parts Listed Below)
3	323-1614-01	50	#+ Socket, Contact (Used In P4, P5, P6)	28	321-0370	1	#+ Holder, Fuse
4	332-1445	A/R	#+ Tie, Cable (Quantity Used As Required)		321-0371	1	#+ Fuse – 20 Amp (Colored Yellow)
5	338-2592-01	1	#+ Cable, Magnetic Pickup (Includes Indented Sockets Listed Below) (P1)		321-0307-07	1	#+ Housing, Connector (S7)
	323-1614-01	3	#+ Socket, Contact	29	323-1765	1	#+ Socket, Contact (Used in S7)
6	323-1580	1	#+ Housing, Connector (12 Place) (J12)	30	323-1709	4	#+ Seal, Cable (Used in S7)
7	323-1581	1	#+ Wedge (Used In J12)	31	323-1708	4	#+ Harness Assembly, Jumper (Includes Parts Indented Below) (Used On E6, E7)
8	323-1491	6	#+ Pin, Contact (Used In J12)	32	338-3285	2	#+ Socket, Connector (2 Place)
9	323-1648	5	#+ Socket, Contact (Used In P10)		323-1652	1	#+ Seal, Cable
10	323-1624	1	#+ Wedge (Used In P7)		323-1445	2	#+ Pin, Contact
11	323-1623	1	#+ Plug, Connector (6 Place) (P7)		323-1718	2	#+ Plug, Connector (3 Place)
12	323-1492	9	#+ Socket, Contact	33	323-1493	1	#+ Wedge
13	323-1615	1	#+ Plug (Used In P4, P5, P6) (Quantity Used As Required)	34	323-1503	1	#+ Pin, Contact
14	323-1445	6	#+ Seal (Used In E2, E3, E4, E6, E7)	35	332-3496	2	#+ Tag, Harness
15	323-1444	2	#+ Socket, Contact (Used In E6, E7)	36	098-7662-02	1	#+ Tie, Cable – Black (Quantity Used As Required)
16	332-3096-01	4	#+ Socket, Contact (Used In E2, E3, E4)	37	332-2774	A/R	+ Boot, Battery Cable (Red)
17	323-1637	2	#+ Socket, Connector (2 Place) (E6, E7)	38	416-1021-02	2	

– Parts Included In 338-3976 Engine Wiring Harness
+ – Parts Included in 338-4058-01 Engine Wiring Harness

Control Box

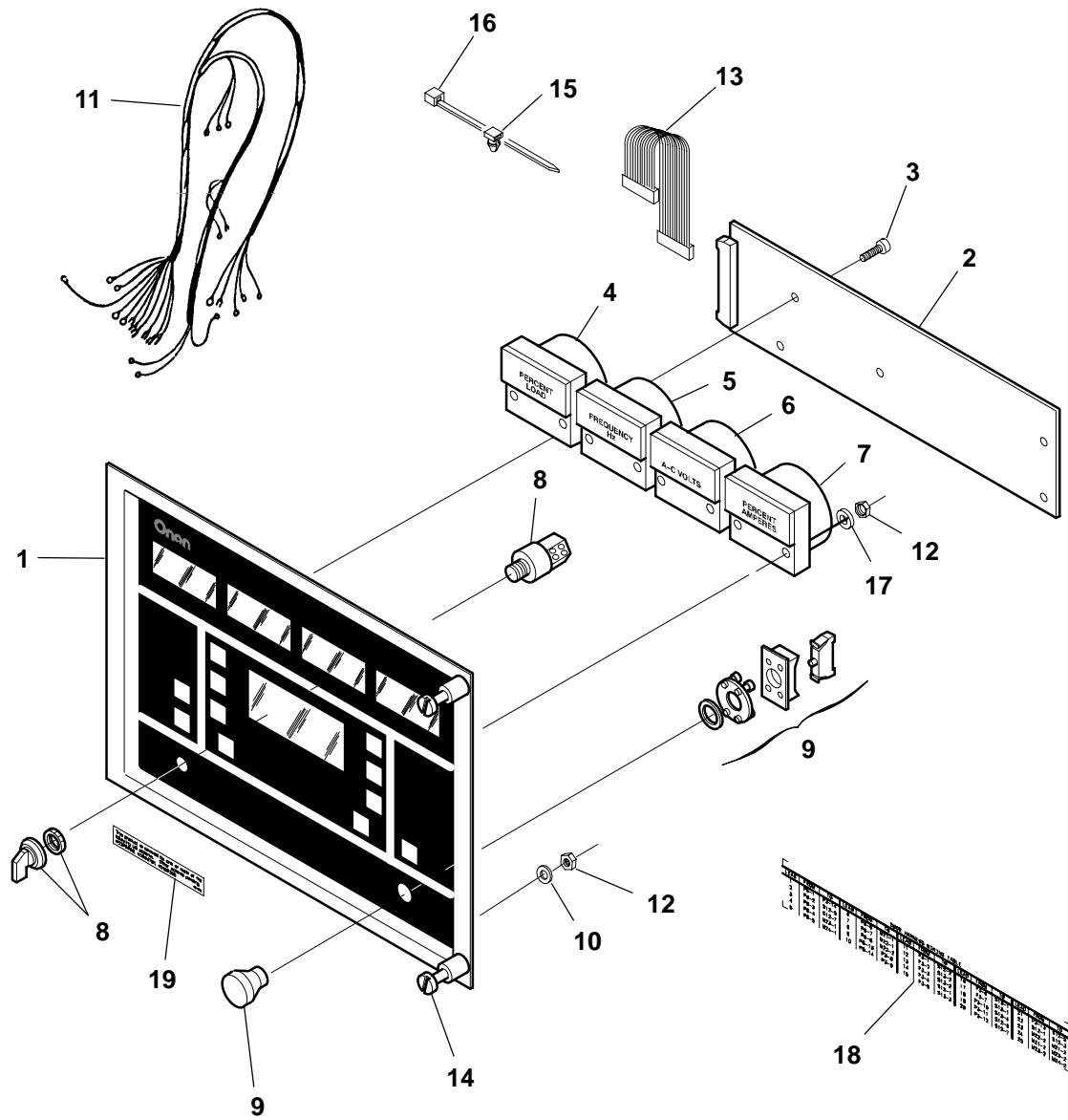


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Control Box

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)	16	321-0307-03	2	Fuse, 5 Amp, 32V (F1, F3)
2		1	Door Assembly – Control (See Page 111 For Components)	17	332-2420	1	Mount, Cable Tie (Quantity Used as Required)
3	300-4079	1	Board, Printed Circuit – Digital (A32)	18	332-0942	1	Tie, Cable (Quantity Used As Required) (Door Harness)
4			Board, Printed Circuit – Analog (A33)	19	895-0359	1	Gasket, Door
	300-4080-01	1	Single Set	20	098-6940	1	Label, Static Sensitive
	300-4080-02	1	Paralleling Sets	21	098-6118	1	Label, Cabinet – Type 1 Enclosure
5			Board, Printed Circuit – Customer Interface (A34)	22			Cable, Ribbon (Used On Early PCC Models With Removable Ribbon Cables)
	300-4462	1	Single Set		338-2931-02	1	Customer Interface to Digital
	300-4462-01	1	Paralleling Sets		338-2932-02	1	Customer Interface to Analog
6	300-4083	1	Board, Printed Circuit – Engine Interface (A31)		338-2932-01	1	Analog to Digital
7	337-0049	2	Strap, Bond		338-2933	1	Analog to Engine Interface
8	800-0003	2	Screw, Cap – Hex Head (1/4-20 x 1/2")		338-2931-01	1	Engine Interface to Digital
9	856-0006	2	Washer, Lock – EIT (1/4")	23			Kit, Language Chip – EPROM (Includes Chip, Instruction Sheets and Warranty)
10	402-0527	4	Isolator, Vibration		300-4721-04	1	Single Set
11	800-0024	4	Screw, Cap – Hex Head (5/16-18 x 1/2")		300-4721-16	1	Paralleling Sets
12	850-0045	4	Washer, Lock (5/16")	24	323-1411-01	2	Clip, Socket Mounting
13	821-0004	4	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16")	25	307-1056	1	Relay, Control
14	815-0549	6	Screw, Machine – Pan Head – Cross Recessed W/ET (#6-32 x 1/4")	26	323-1410-01	1	Socket, Relay
15	332-3235	6	Standoff, Board – PC (#6-32 IT x #6-32 ET x 3/4")	27	307-2869	2	Relay, Thermistor

Control Door



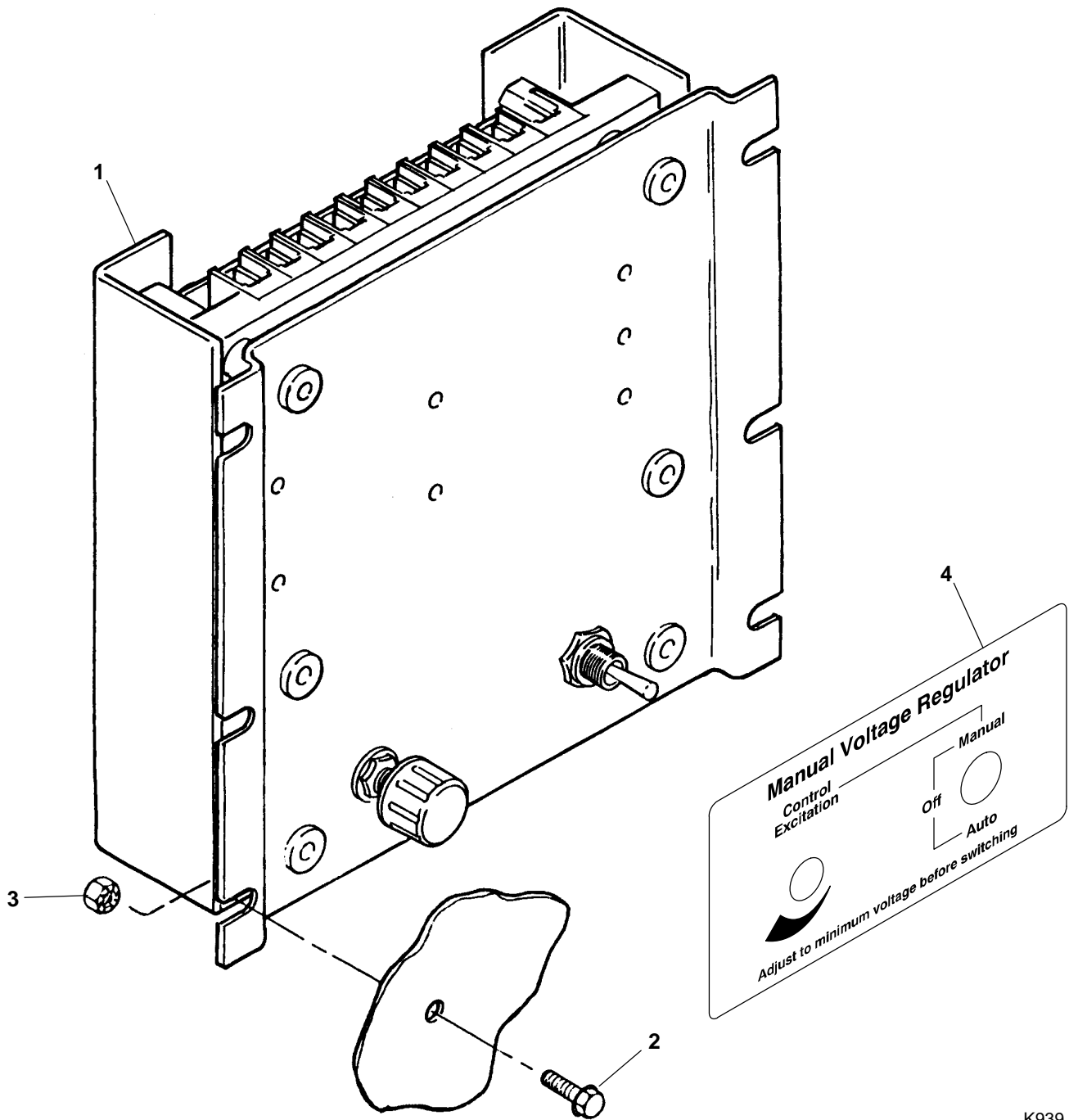
H530
H537
H555

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 *)	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)
	300-4608-01	1	English Single Set				
	300-4608-02	1	Paralleling Sets				
			Spanish				
	300-4610-01	1	Single Set	308-1046		2	Key, Replacement (Not Illustrated)
	300-4610-02	1	Paralleling Sets				
2			Board, Printed Circuit – Display (A35)	9	308-0999	1	Switch, Pushbutton – Emergency Stop (S13)
	300-4481	1	Single Set	10	526-0417	2	* Washer, Flat (#4)
	300-4286	1	Paralleling Sets	11	338-2937	1	Harness, Wiring – Control Door (Includes Selector Switch and Emergency Stop Switch)
3	815-0550	5	Screw, Machine – Pan Head – Cross Recessed W/ET (#6-32 x 3/8")				
4	302-2012	1	Wattmeter (0-125 %) (M24)	12	870-1220	10	* Nut, Hex – W/ET (#4-40)
5	302-2010	1	Meter, Frequency (45-65 Hz) (M23)	13	338-2934	1	Cable, Ribbon (10-1/2") (A32 to A35)
6			Voltmeter, AC (M21)	14	406-0761-03	2	* Fastener, Door
	302-2009-01	1	0-300/0-600 Volt	15	332-3262	4	Mount, Tie – Cable
	302-2009-02	1	0-750 Volt	16	332-1445	4	Tie, Cable
	302-2009-03	1	0-5250 Volt	17	526-0257	8	Washer, Flat (#4)
	302-2009-04	1	0-15 kV	18	098-7276	1	* Label, Harness
7	302-2011	1	Ammeter (0-125 %) (M22)	19	098-7395	1	Label, Patent
8	308-0998	1	Switch, Selector – Run/Off/Auto (Knob Operated Switch) (S12)				

* Parts Included in Door Assembly

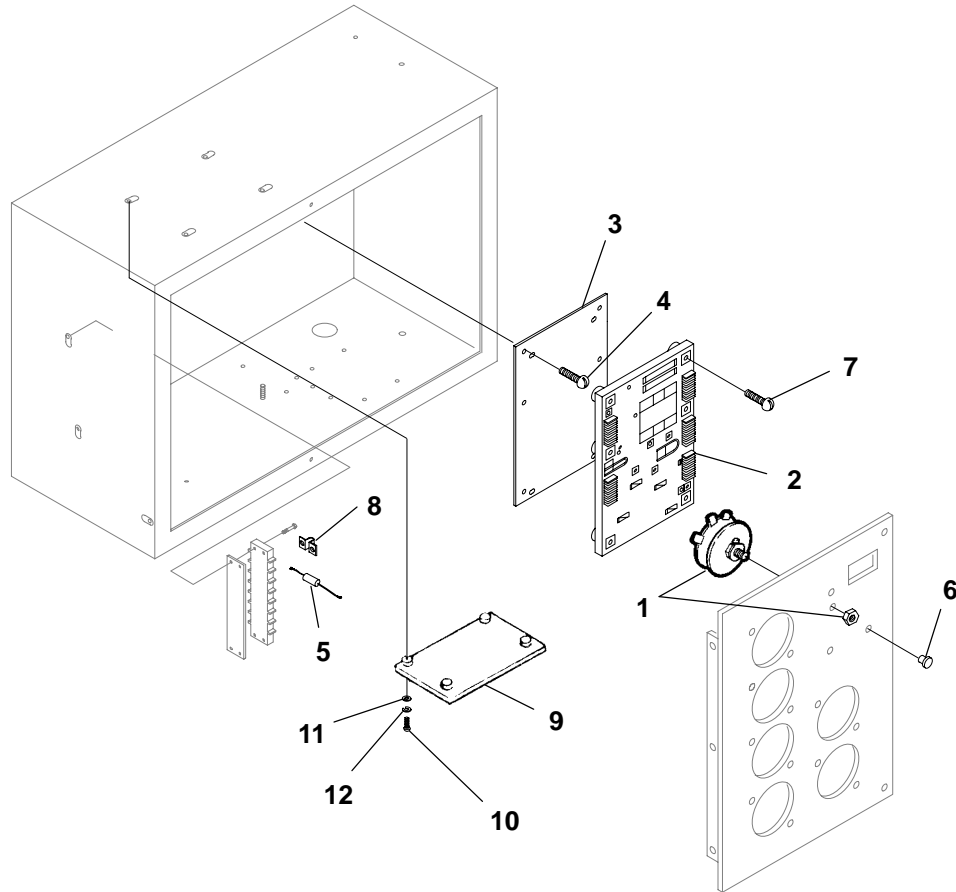
Manual Voltage Regulator



K939

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305-0817	1	Regulator, Voltage – Manual (MVR)	3	870-0131	4	Nut, Hex – W/ET (10-32)
2	821-0005	4	Screw, Self-Locking – Hex Washer Head (10-32 x 1/2")	4	098-6149	1	Decal, Manual Voltage Regulator

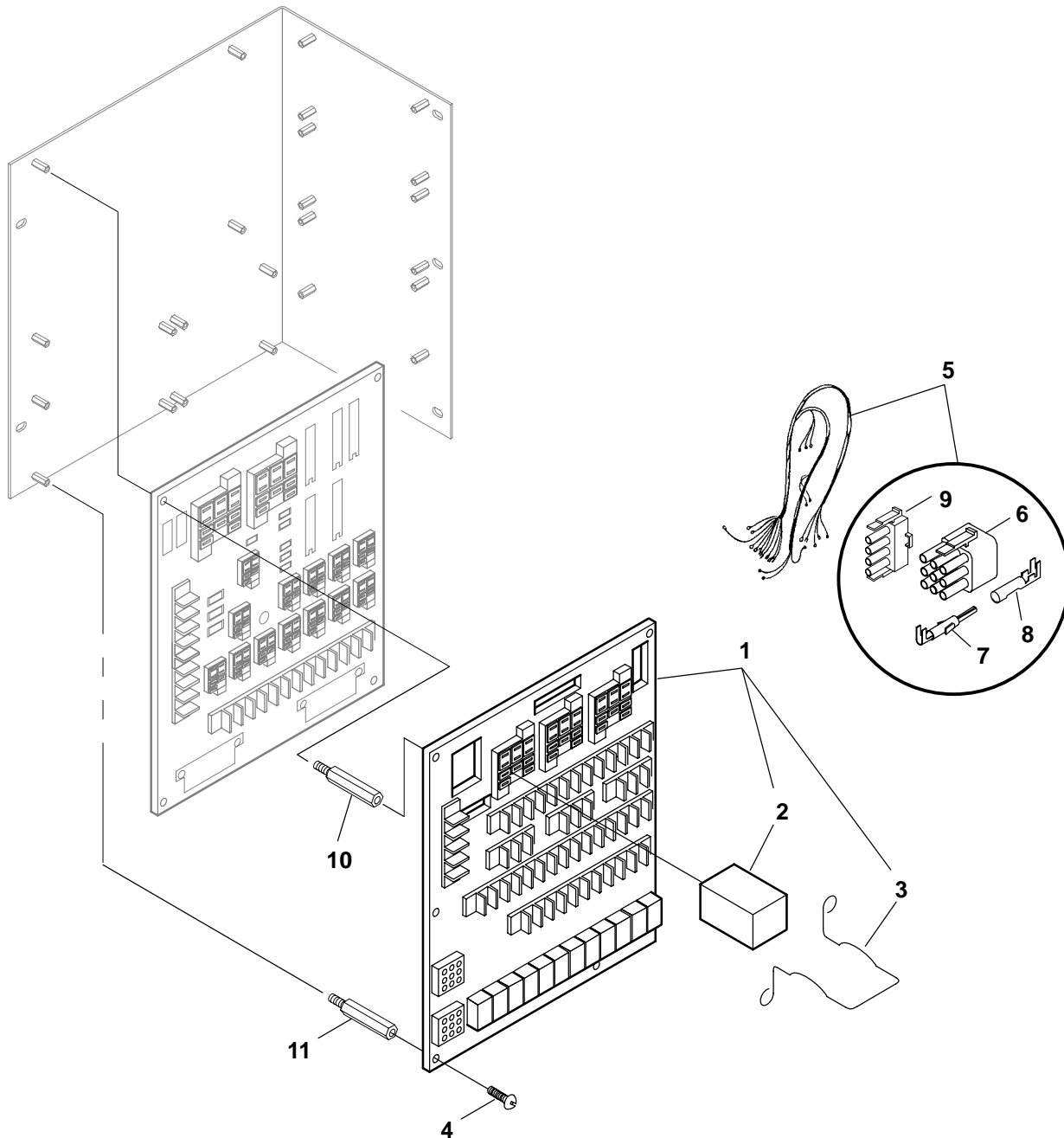
Voltage Regulator Generator Sets With Detector Control



B246
H529
H546
H547
K001

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	303-0285-01	1	* Potentiometer – Voltage Adjust (5K Ohms) (Used With Model MX321 Voltage Regulator) (R21)	6	517-0131	1	Plug, Hole (Fits 3/8" Hole)
2	305-0823	1	Board, Printed Circuit – Voltage Regulator (MX321) (VR21)	7	812-0084	4	Screw, Machine – Round Head (#8-32 x 1")
3	319-0652	1	Plate, Mounting	8	332-2605	1	Jumper (Used On TB21)
4	815-0937	6	Screw, Machine – Round Head – Cross Recessed W/IT (#6-32 x 1/2")	9	305-0868	1	* Board, Printed Circuit – Isolation Transformer (T30)
5	350-1222	1	Resistor (1.5K Ohms) (Used On TB21)	10	813-0108	4	* Screw, Machine – Round Head (#10-32 x 1-1/2")
				11	526-0008	4	* Washer, Flat (#10)
				12	850-0030	4	* Washer, Lock – Spring (#10)
				* – Not Used On All Models			

Alarm Relay Board

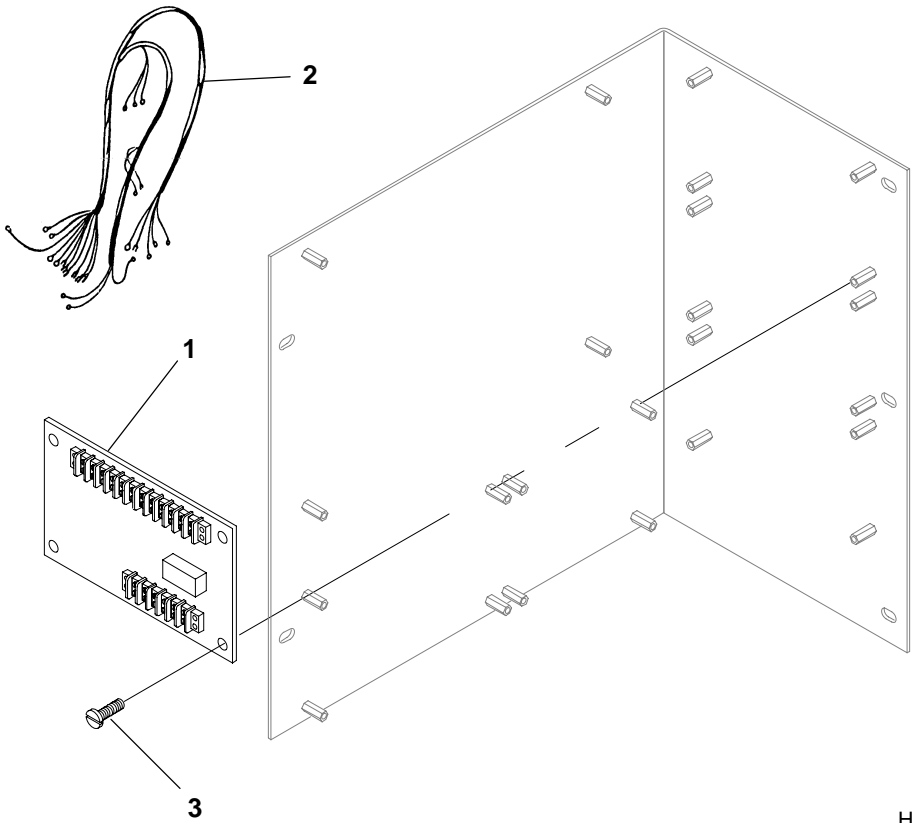


KJ02
KJ03

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Printed Circuit – Alarm Relay, 24V (Includes Relay and Relay Hold-Down Spring – Ref No. 2 and 3)	5	338–2875	1	Harness, Wiring (A11 To P1, P2, P3) (Includes Parts Marked *)
	300–4111–02	1	Without Form C Relays	6	323–1291	2	* Plug – 9 Place (P1, P2)
	300–4111–04	1	With Form C Relays	7	323–1199	9	* Pin, Contact (Used In P1)
2	307–1056	1	Relay (Quantity Used As Required (K1))	8	323–1200	12	* Socket, Contact (Used In P2, P3)
3	307–1157	1	Spring, Relay Hold-Down (Quantity Used As Required)	9	323–1292	1	* Plug – 4 Place (P3)
4	815–0937	6	Screw, Machine – Round Head – Cross Recessed (#6–32 x 1/2")	10	870–0517–01	4	Standoff (Clear) (1–15/16")
				11	870–0517–02	2	Standoff (Yellow) (2")

* – Parts Included in 338–2875 Wiring Harness

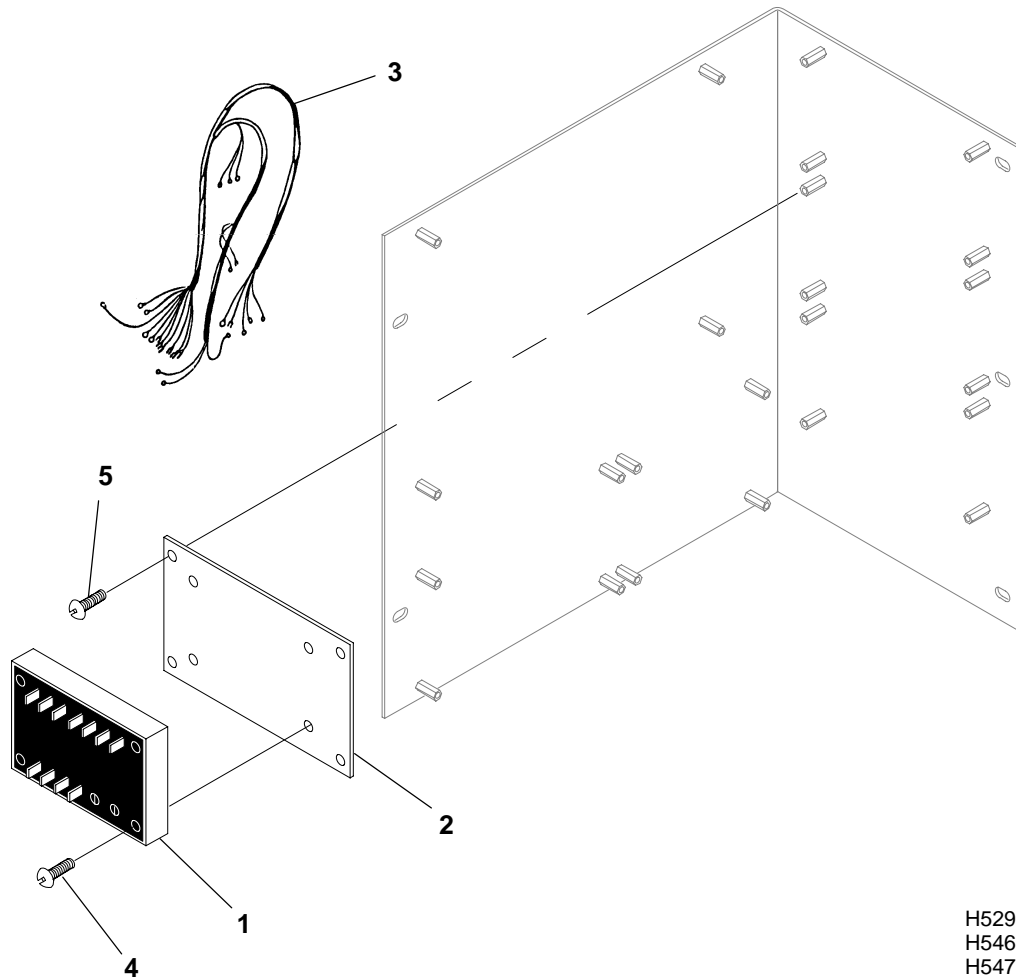
Common Alarm Board
Generator Sets With Detector Control



H546

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-4218-02	1	Board, Printed Circuit – Common Alarm (A27)	3	812-0063	4	Screw, Machine – Round Head (#6-32 x 1/2")
2	338-3033	1	Harness, Wiring (12 Wire) (A27 to A11)				

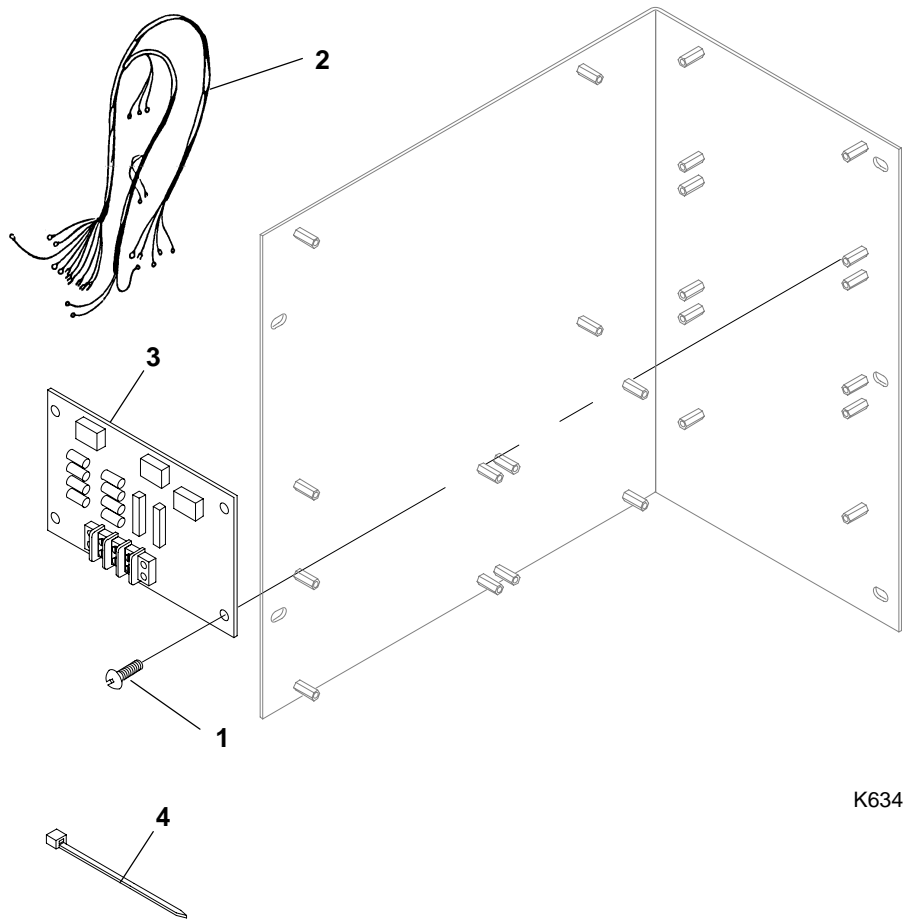
Electronic Overspeed



H529
H546
H547

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305-0902-02	1	Board, Printed Circuit – Electronic Overspeed (A16)	4	812-0082	4	Screw, Machine – Round Head (8-32 x 3/4")
2	319-0754	1	Plate, Mounting	5	815-0388	4	Screw, Pan Head – Cross Recessed, Thread Forming (6-32 x 1/2")
3	338-2447	1	Harness, Wiring – Electronic Overspeed (AUX to A11, A16) (6 Wire, 74")				

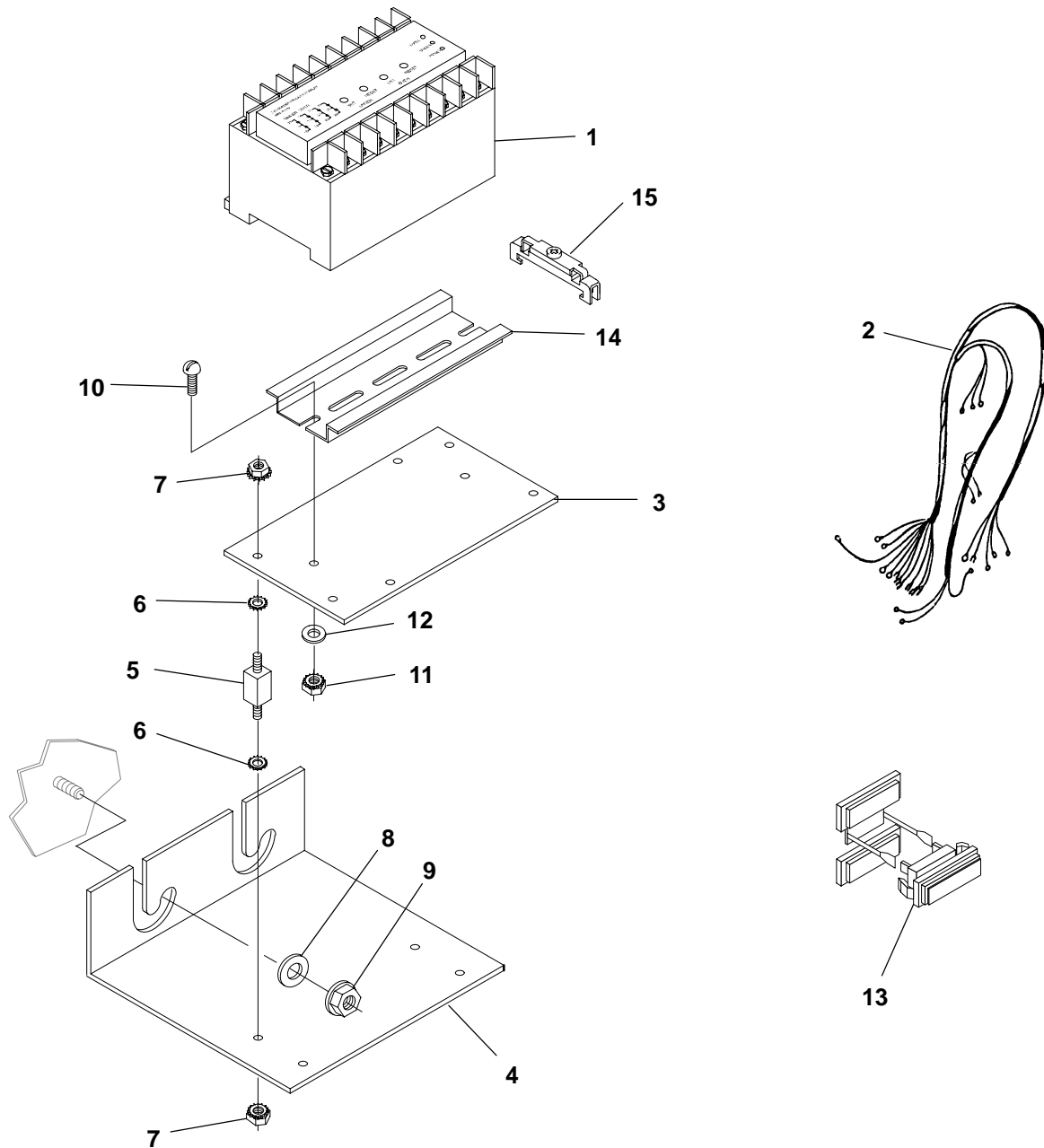
Time Delay Start/Stop



K634

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0937	4	Screw, Machine – Round Head – Cross Recessed (6-32 x 1/2")	3	300-2899	1	Board, Printed Circuit – Time Delay (A15)
2	338-1904	1	Harness, Wiring (5 Wire) (21-1/2") (A15 to A11)	4	332-1445	3	Tie, Cable

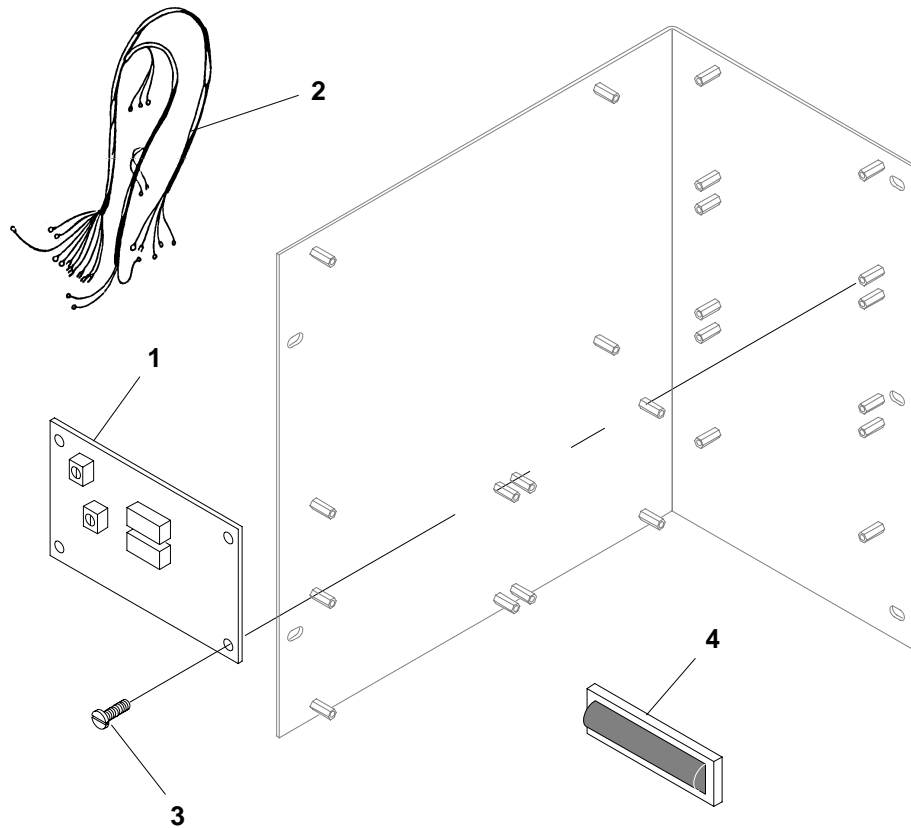
**Over/Under Voltage Relay
DFEB Spec J, DFEC Spec C, DFFB Spec J Through K**



K881

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2921-01	1	Relay, Voltage (A17)	9	870-0048	2	Nut, Hex – Self-Locking (5/16-18)
2	338-3752	1	Harness, Wiring – Over/Under Voltage (TB21, A11, GND to A17) (4 Wire, 67")	10	813-0100	2	Screw, Machine – Round Head (#10-32 x 1/2")
3	301-9941	1	Plate, Mounting	11	870-0131	2	Nut, Hex – W/ET (#10-32)
4	301-6987	1	Bracket, Mounting	12	526-0008	2	Washer, Flat (#10)
5	402-0354	4	Mount, Shock	13	322-0384-09	1	Light, Indicator – Marked "O/U VOLT"
6	853-0005	8	Washer, Lock – EIT (#8)	14	332-2879-07	1	Rail, Mounting
7	870-0221	8	Nut, Hex – W/ET (#8-32)	15	323-1411-01	2	Clip, End (Used on Some Early Models)
8	526-0115	2	Washer, Flat (5/16")				

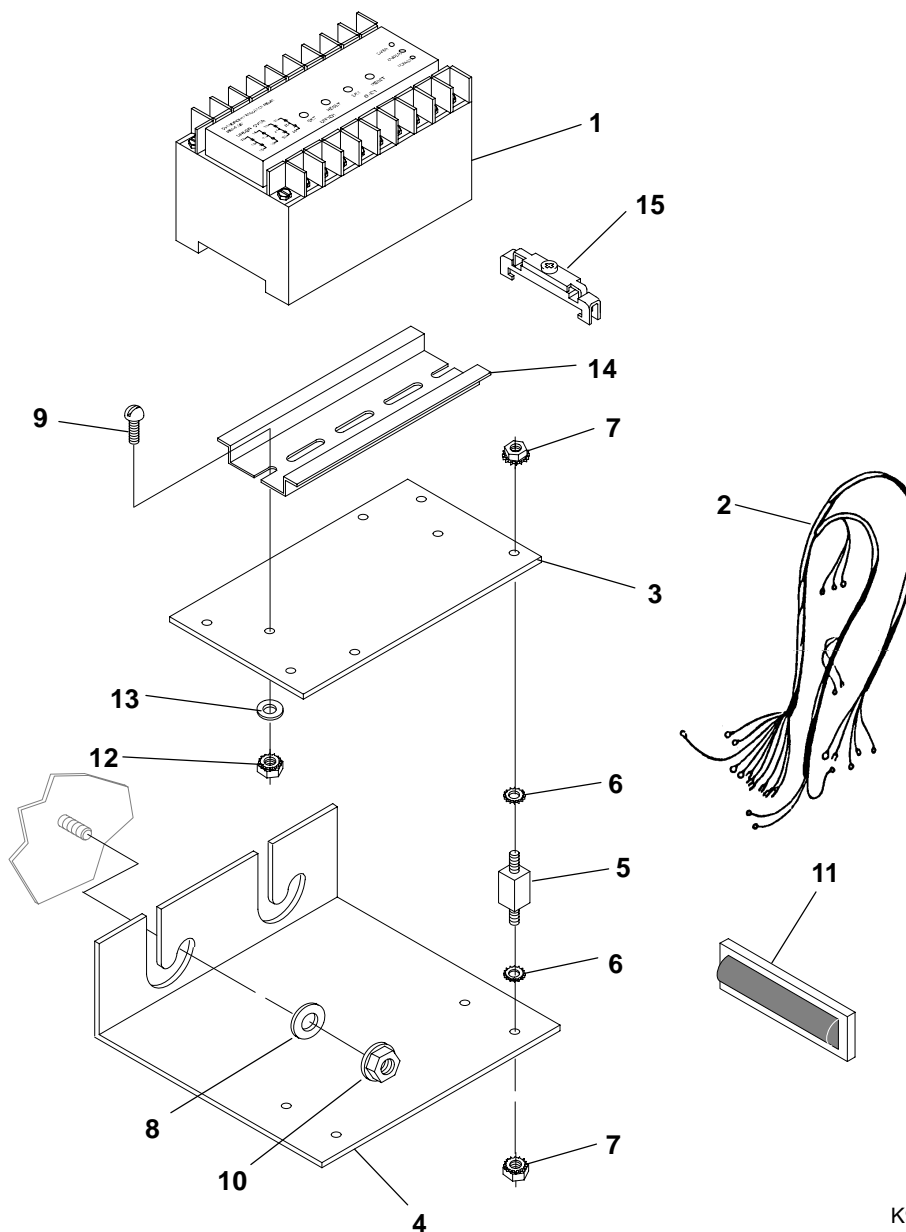
Over/Under Voltage Relay
DFEB Begin Spec K, DFEC Begin Spec D, DFED, DFFB Begin Spec L



K881

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2868	1	Board, Printed Circuit – Over/Under Voltage Relay (A17)	3	815-0937	4	Screw, Pan Head – Cross Recessed (#6-32 x 1/2")
2	338-3366	1	Harness, Wiring (6 Wire) (30")	4	322-0431-03	1	Lens, Indicator Light (Marked "O/U VOLT")

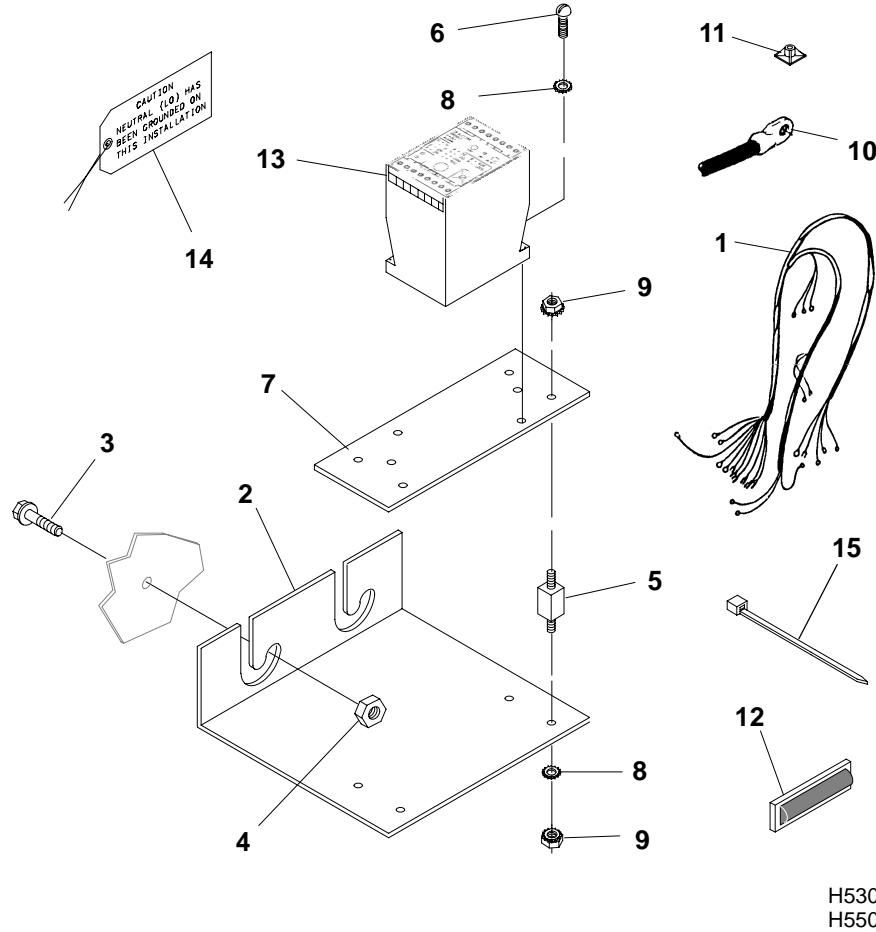
Over/Under Frequency Relay



K906

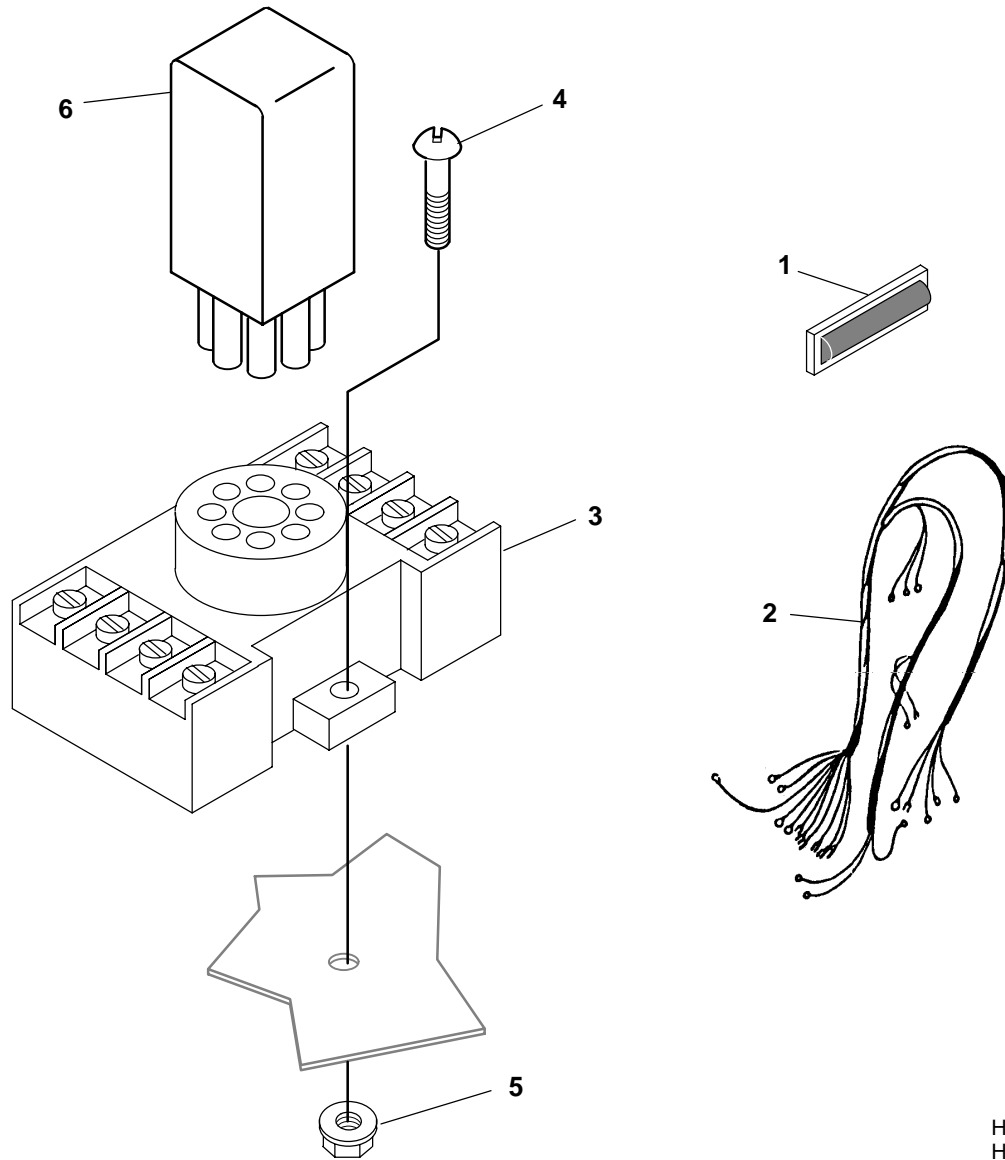
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Relay, Frequency – Over/Under (A18)	8	526-0115	2	Washer, Flat (5/16")
	307-2920	1	50 Hertz Sets	9	813-0100	2	Screw, Machine – Round Head (#10-32 x 1/2")
	307-2919	1	60 Hertz Sets	10	870-0048	2	Nut, Hex – Self-Locking (5/16-18)
2	338-2347	1	Harness, Wiring – Over/Under Frequency (6 Wire, 62") (TB21, A11, GND to A19)	11	322-0431-04	1	Lens, Replacement – Marked "O/U HZ" (DS20)
3	301-9941	1	Plate, Relay Mounting	12	870-0131	2	Nut, Hex – W/ET (#10-32)
4	301-6987	1	Bracket, Mounting	13	526-0008	2	Washer, Flat (#10)
5	402-0354	4	Mount, Shock	14	332-2879-07	1	Rail, Mounting
6	853-0005	8	Washer, Lock – ET (#8)	15	323-1411-01	2	Clip, End (Used on Some Early Models)
7	870-0221	8	Nut, Hex – W/ET (#8-32)				

Ground Fault Relay **DFEB Begin Spec K, DFEC Begin Spec D, DFED, DFFB Begin Spec L**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3235	1	Harness, Wiring Generator Sets With Detector Control (7 Wire, 92") (GFA to A11, GND, NEUTRAL, CONT GND)	5	402-0354	4	Mount, Shock
	338-3232	1	Generator Sets With PowerCommand Control (GFA to TB1, GEN NEUTRAL, GND)	6	812-0081	2	Screw, Machine – Round Head (#8-32 x 5/8")
	338-3233	1	Generator Sets with HC5 Frame (7 Wire, 102")	7	319-0030	1	Plate, Mounting
2	301-6987	1	Generator Sets with HC6 Frame (7 Wire, 119")	8	853-0005	8	Washer, Lock – ET (#8)
3	821-0017	2	Bracket, Mounting	9	870-0221	10	Nut, Hex – W/ET (#8-32)
			Screw, Self-Locking – Hex Washer Head (5/16-18 x 1 1/2")	10	226-4406-06	2	Cable, Generator (Generator Neutral to Generator Grounding Bolt) (24")
4	870-0257	2	Nut, Hex – Self-Locking (5/16-18)	11	332-2420	2	Mount, Cable Tie
				12	322-0431-09	1	Lens, Indicator Light (Amber Color, Marked "GROUND FAULT") Generator Sets With Detector Control
				13	307-2843	1	Relay (Ground Fault Alarm)
				14	098-6943	1	Tag, Caution
				15	332-1445	1	Tie, Wire (Quantity Used As Required)

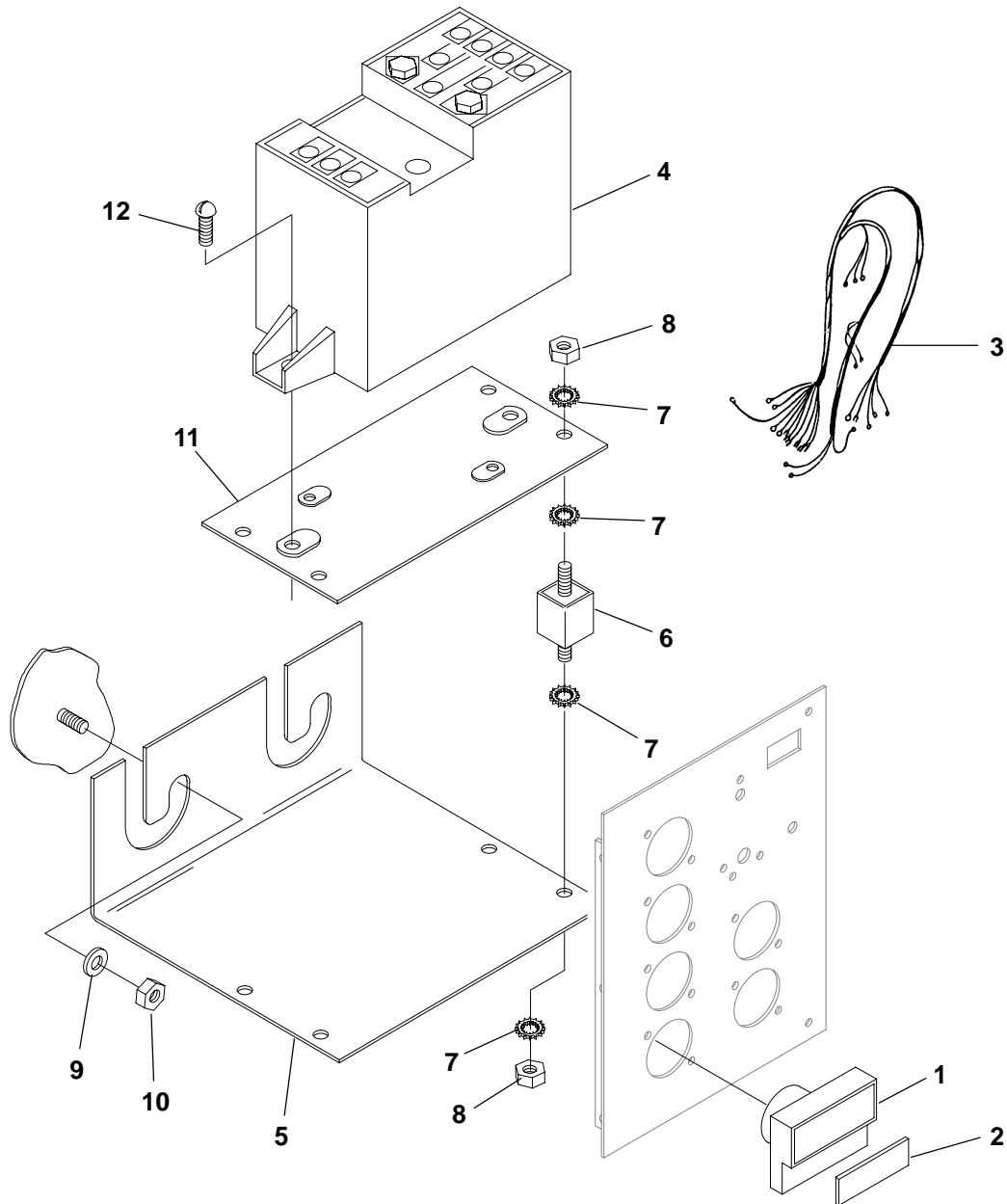
Low Battery Voltage Sensor



H543
H546

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	322-0431-08	1	Lens, Indicator Light (Marked "Lo Battery")	5	870-1221	2	* Nut, Hex – W/ET (#8-32)
2	338-3034	1	* Harness, Wiring (4 Wire) (36") (K15 to A11)	6	305-0901	1	* Sensor – Low Battery Voltage (K15)
3	323-1410-03	1	* Base, Relay	* – Not Used on All Models			
4	812-0084	2	* Screw, Machine – Round Head (#8-32 x 1")				

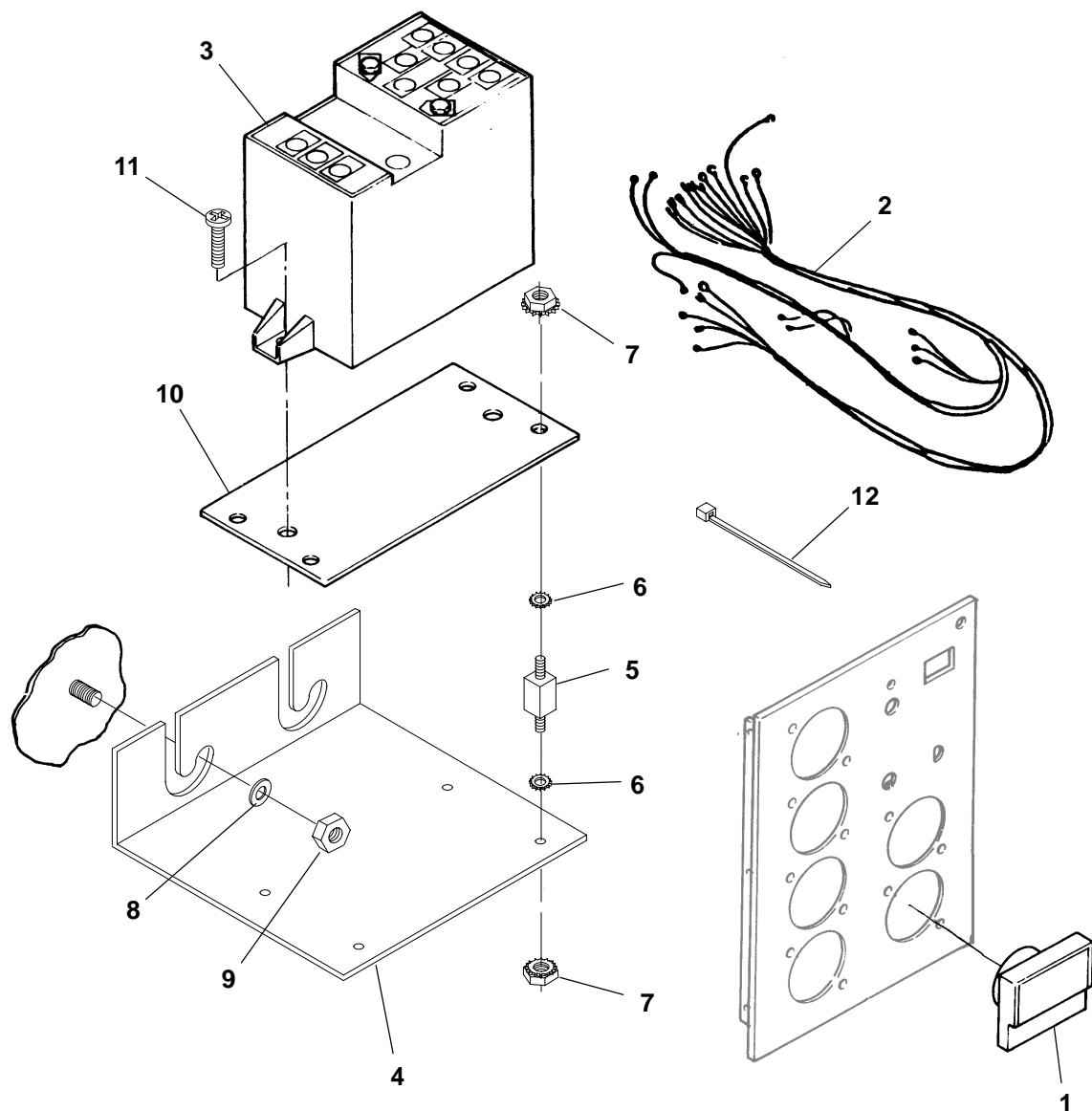
Wattmeter



K185

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1722	1	Wattmeter (Dial Not Included) (M24)	4	302-1833-01	1	Transducer, Watts (A21) Reconnectable Wye Vertical Control
2	302-1721-13	1	Dial, Wattmeter 0-500 kW Rating,		302-1833-05	1	120/240V Delta Vertical Control
	302-1721-14	1	0-600 kW Rating				
3			Harness, Wiring – Wattmeter (M24, TB21, and GND to A21)	5	301-6987	1	Bracket, Mounting
	338-1936	1	Reconnectable Wye Vertical Control	6	402-0354	4	Mount, Shock
	338-2479	1	120/240V Delta Vertical Control	7	853-0005	8	Washer, Lock – W/ET (8)
				8	870-0221	8	Nut, Hex W/ET (8-32)
				9	526-0115	2	Washer, Flat (5/16")
				10	870-0048	2	Nut, Locking (5/16-18)
				11	319-0030	1	Plate, Mounting
				12	815-0905-06	2	Screw, Machine – Pan Head, Cross Recessed (10-32)

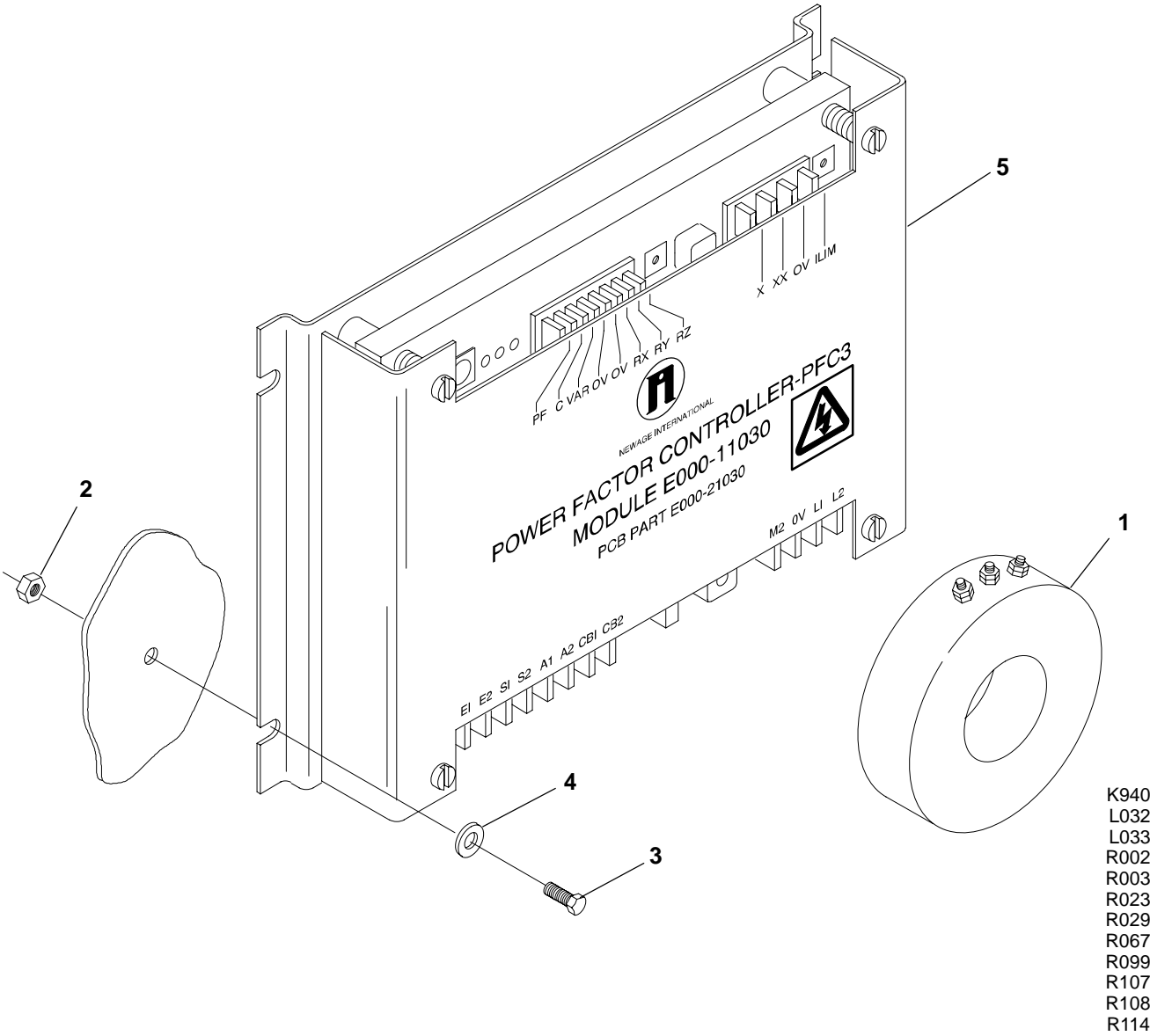
Power Factor Meter



K264

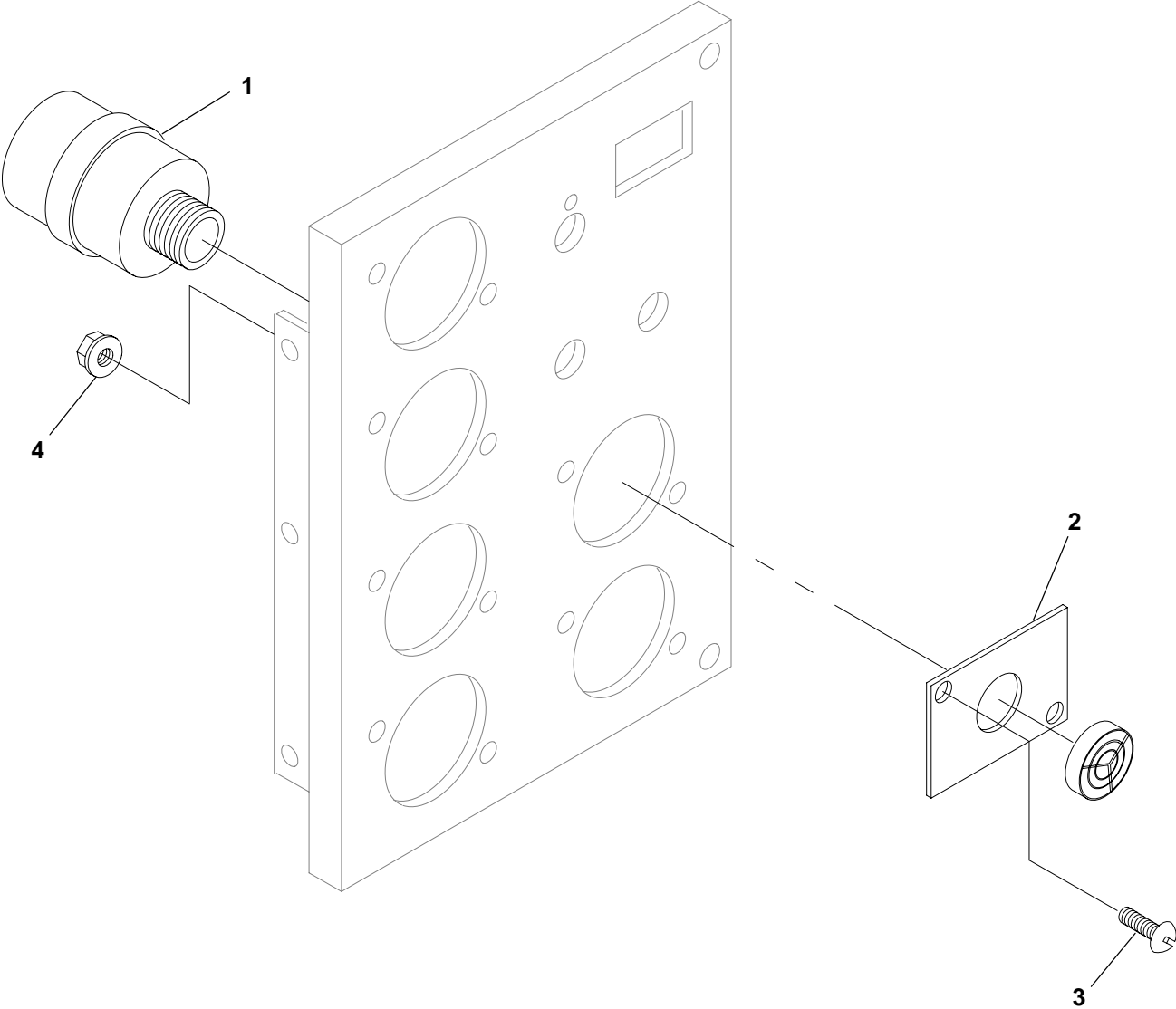
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1883	1	Meter, Power Factor (M25)	7	870-0221	8	Nut, Hex - W/ET (#8-32)
2	338-2368	1	Harness, Wiring - Meter (6 Wire, 44") (M25, TB21, GND to A22)	8	526-0115	2	Washer, Flat (5/16")
3	302-1833-03	1	Transducer, Watts (A21)	9	870-0048	2	Nut, Locking (5/16-18)
4	301-6987	1	Bracket, Mounting	10	319-0030	1	Plate, Mounting
5	402-0354	4	Mount, Shock	11	815-0905-06	2	Screw, Machine - Pan Head, Cross Recessed (#10-32 x 5/8")
6	853-0008	8	Washer, Lock - ET (#10)	12	332-0942	3	Tie, Cable

VAR Power Factor Controller



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT25)	3	813-0103	4	Screw, Machine – Round Head (#10-32 x 3/4")
	302-1845-08	1	Ratio 750/5	4	526-0008	4	Washer, Flat (#10)
	302-1845-10	1	Ratio 1000/5	5	305-0870	1	Controller, Power Factor (VAR)
	302-1794-11	1	Ratio 1500/5				
	302-1794-13	1	Ratio 3000/5				
2	870-0131	4	Nut, Hex – W/EIT (#10-32)				

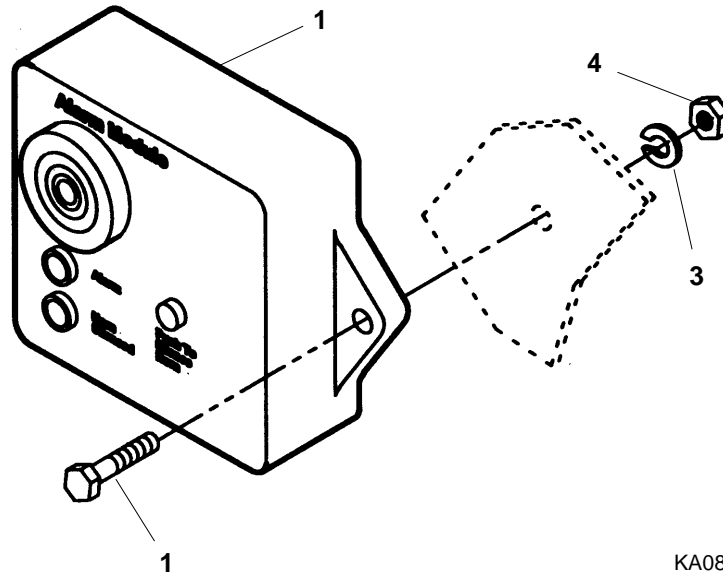
**Audible Alarm
Generator Sets With Detector Control**



KA08

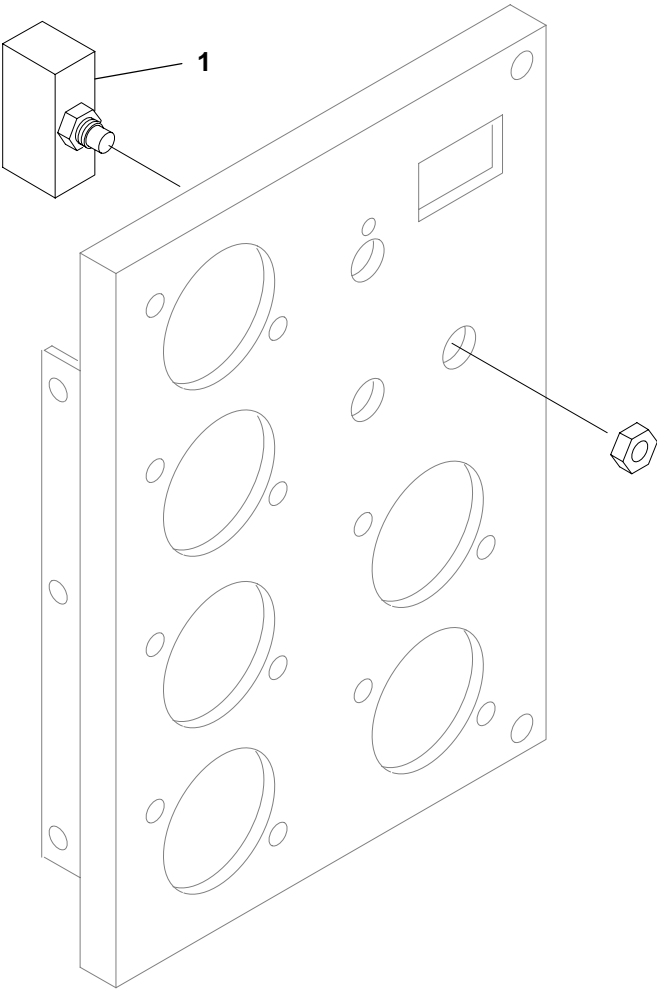
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0133	1	Alarm, Audible (DS2)	3	815-0385	2	Screw, Machine – Round Head (#6-32 x 1/2")
2	319-0898	1	Plate, Mounting	4	870-0183	2	Nut, Hex – W/ET (#6-32)

Audible Alarm Module **Generator Sets With PowerCommand Control**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-3998-01	1	Module, Audible Alarm (DS2)	3	850-0040	2	Washer, Lock – Spring (1/4")
2	800-0006	2	Screw, Cap – Hex Head (1/4-20 x 7/8")	4	862-0001	2	Nut, Hex (1/4")

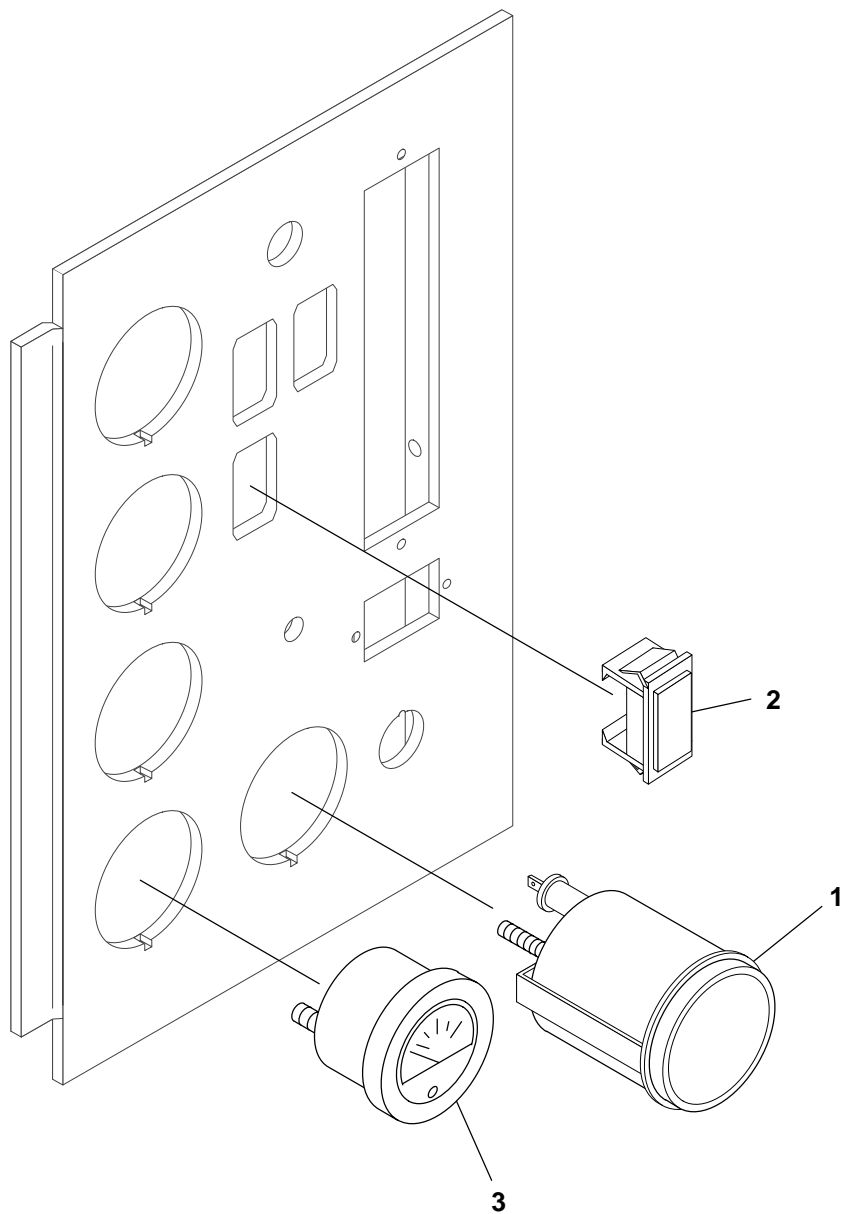
Circuit Breaker
AC Control Door



H529
H546
H547
KJ35
K600

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit (CB21)				
	320-1688-01	1	Without Auxiliary Contacts				
	320-1688-02	1	With Auxiliary Contacts				

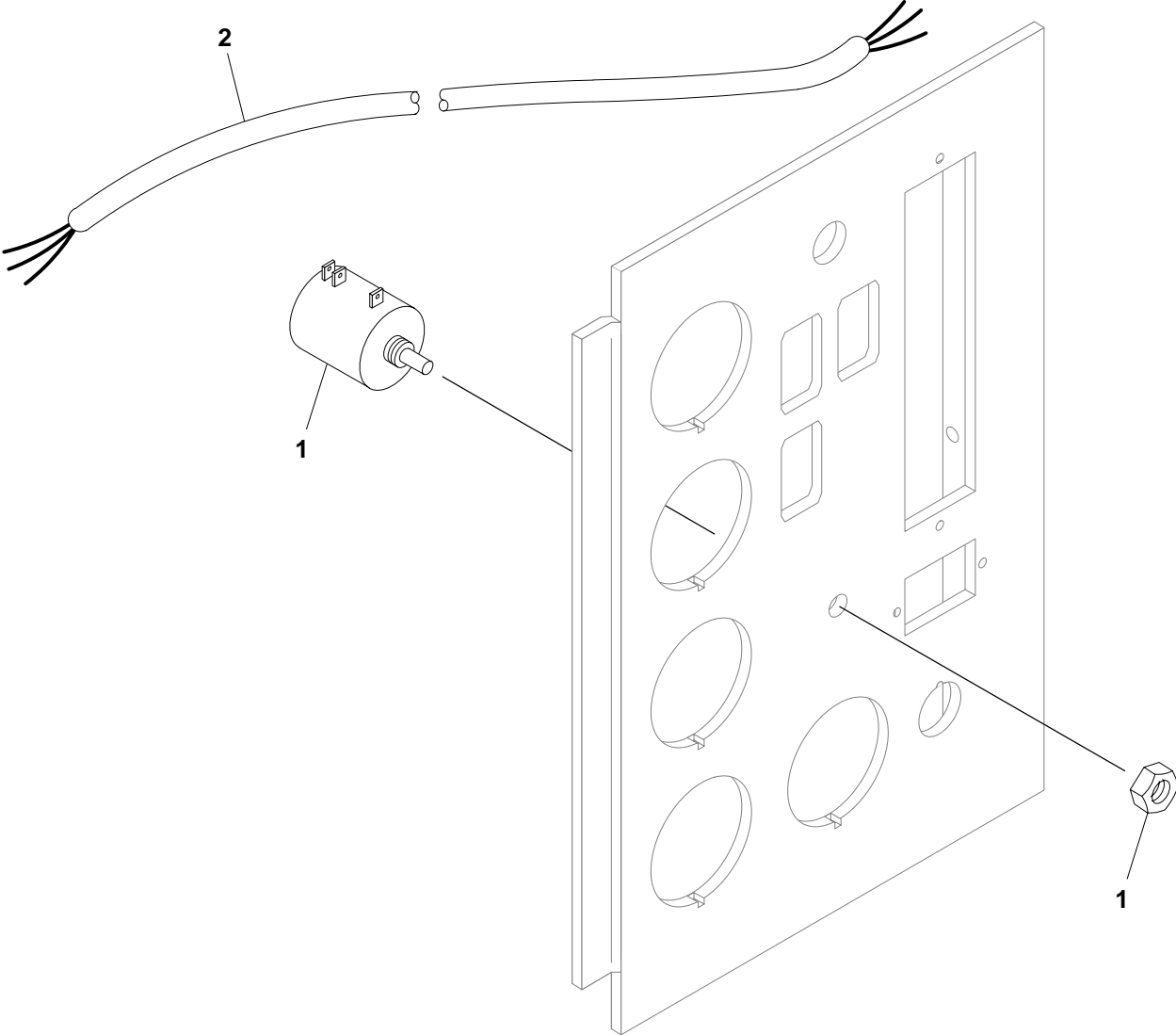
Tachometer



K145

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1873-01	1	Tachometer (0-4000 RPM, 12 Volt) (M16)	2	301-6257	1	Switch, Blank
				3	302-1723	1	Ammeter – Blank Scale

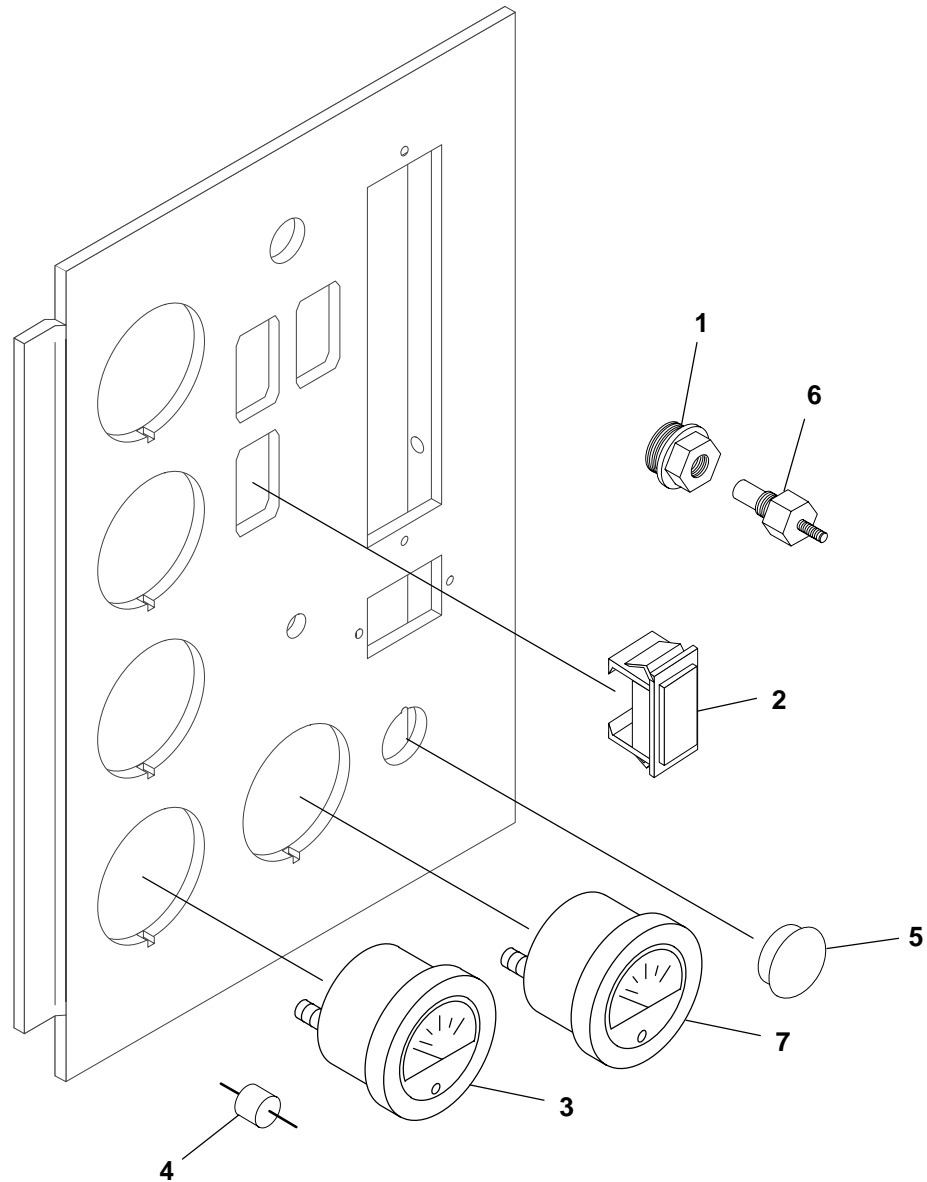
Potentiometer
Speed Adjusting



A068
A211
A267
A332

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Potentiometer, Speed Adjusting – Governor Controller (R21)	2	334-0116	–	Cable, Shielded – Bulk (Order by the Foot – 7 Feet Required)
	303-0223-05	1	100 Ohms				
	303-0280	1	5K Ohms				

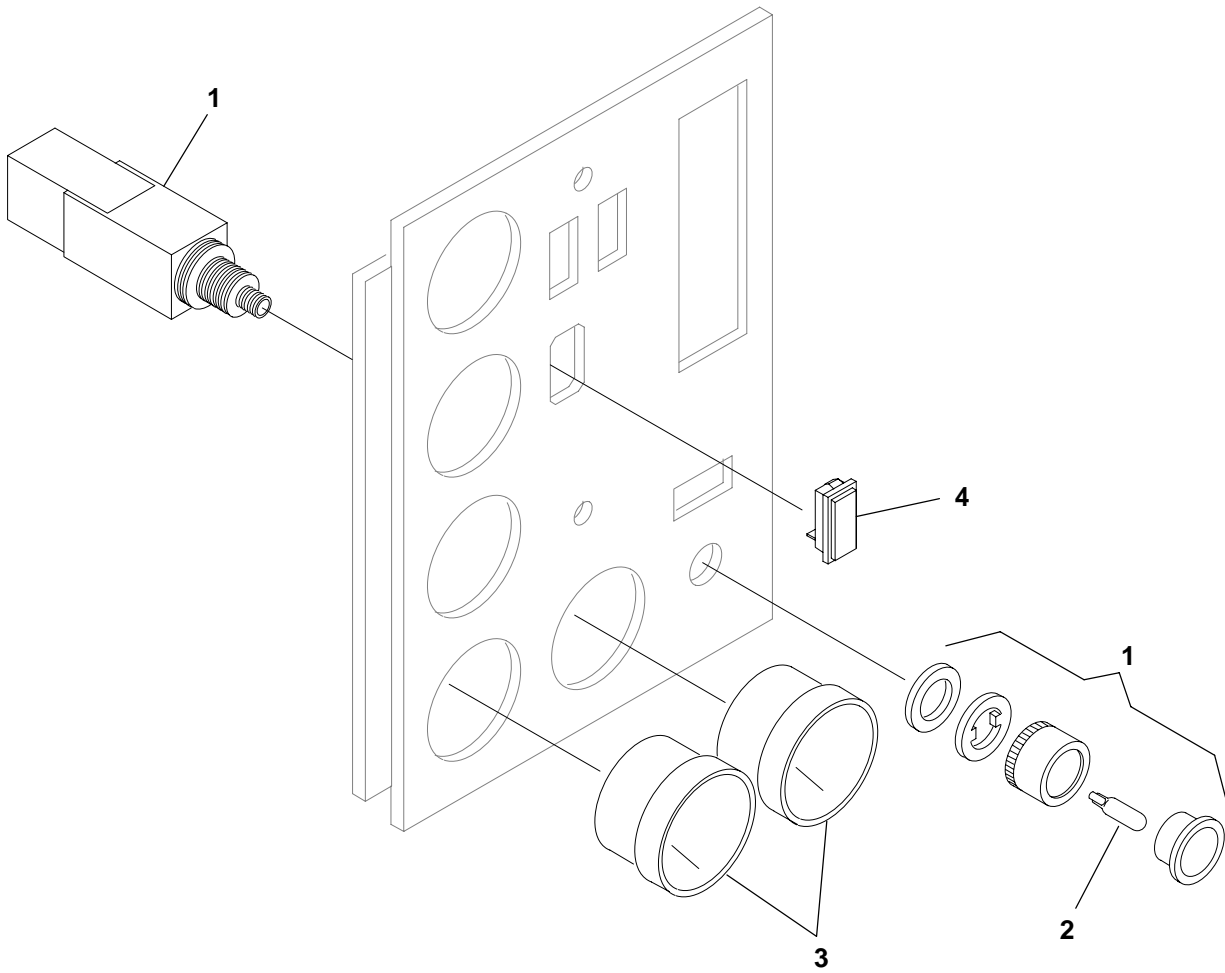
Oil Temperature Gauge



K486

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0151	1	Bushing, Pipe – Reducer (1/2" to 1/8") Oil Pan Mounted	5	517-0137	1	Plug, Hole (7/8" Hole)
2	301-6257	1	Switch – Blank	6	193-0388	1	Sender, Oil Temperature – Oil Pan Mounted (E4)
3	193-0435	1	Gauge, Oil Temperature (M15)	7	302-1723	1	Ammeter (Blank Scale) (Used on Some Early Models)
4	193-0250	1	Resistor, Gauge (R13)				

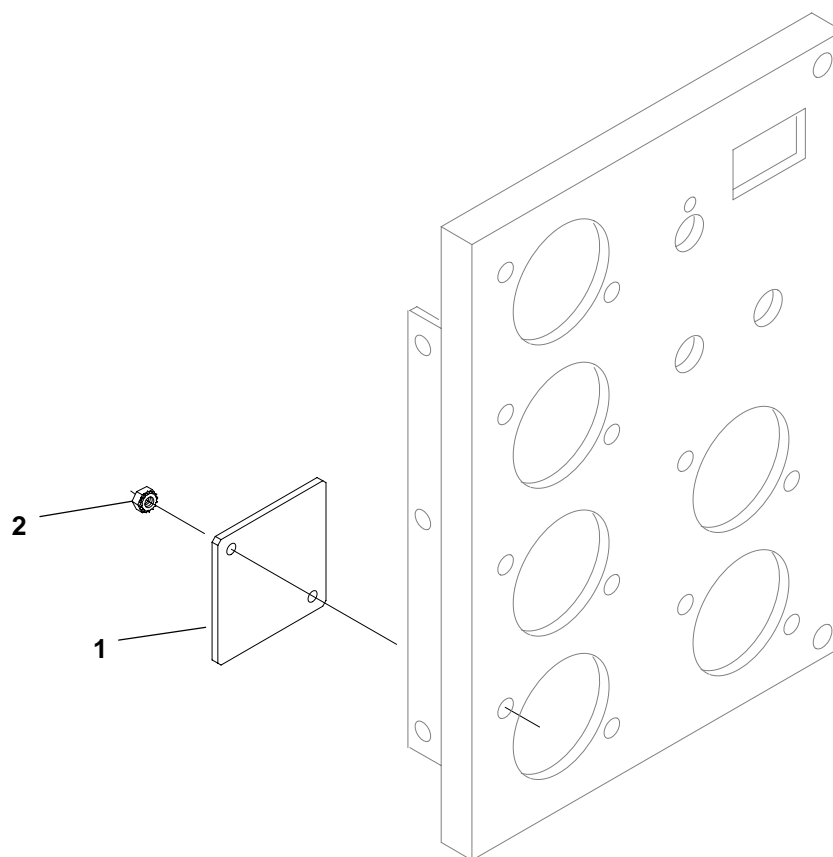
Emergency Stop Switch



K796

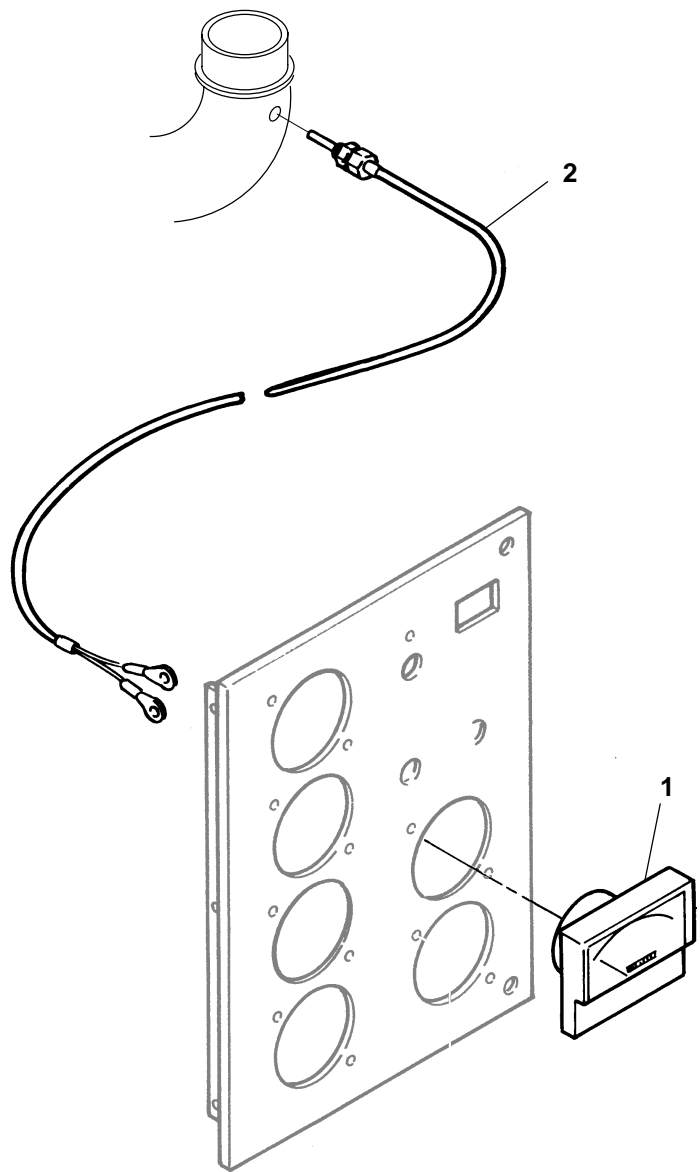
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	308-1095	1	Switch, Pushbutton – Emergency Stop (Includes Bulb – Ref No. 2) (S14)	2	322-0487	1	Bulb, Replacement
				3	302-1723	2	Ammeter – Blank Scale
				4	301-6257	1	Switch – Blank

Control Door Meter Cover
DFEB Begin Spec S, DFEC Begin Spec K, DFED Begin Spec G



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-5498-02 A/R		Cover, Control Door – Meters	2	870-0131	A/R	Nut, Hex – W/ET (#10-32)

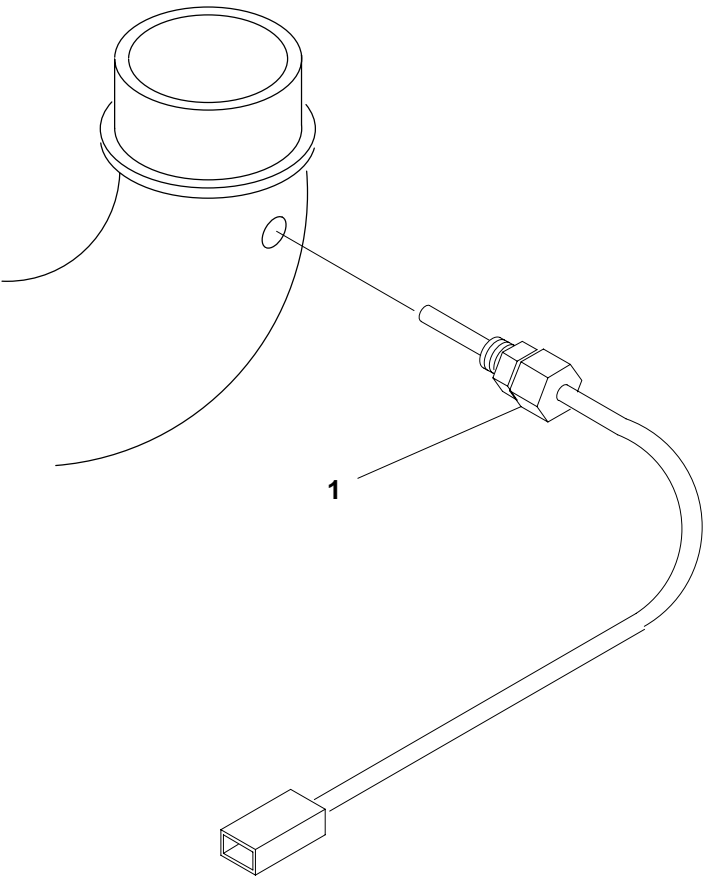
**Pyrometer
Generator Sets With Detector Control**



H244

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1874	1	Pyrometer (M26)	2	193-0299	1	Lead, Thermocouple, 140"

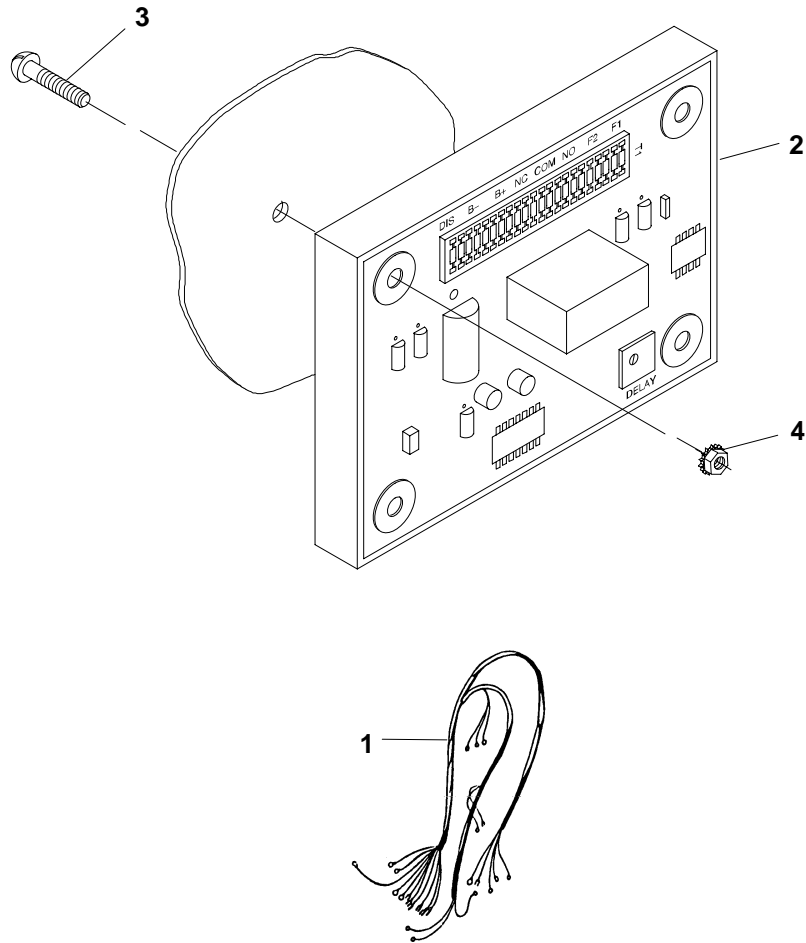
Pyrometer
Generator Sets With PowerCommand Control



H244

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0446	1	Lead, Thermocouple – 22-1/2" (M26)				

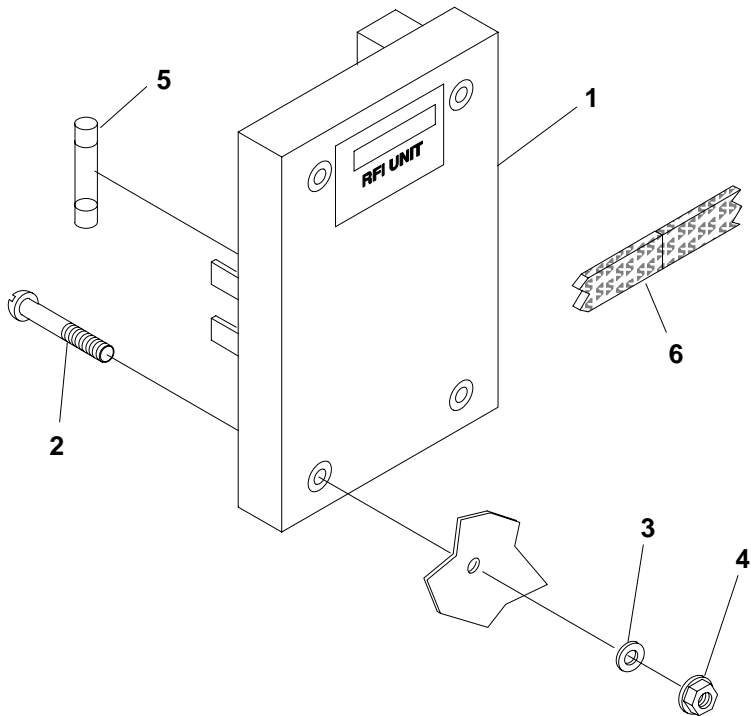
Excitation Loss Module



KJ35

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-2455	1	Harness, Wiring – Excitation Loss Module (AUX to A11)	3	813-0103	4	Screw, Machine – Round Head (#10-32 x 3/4")
2	305-0821-02	1	Module (ELM), 24V	4	870-0131	4	Nut, Hex – W/ET (#10-32)

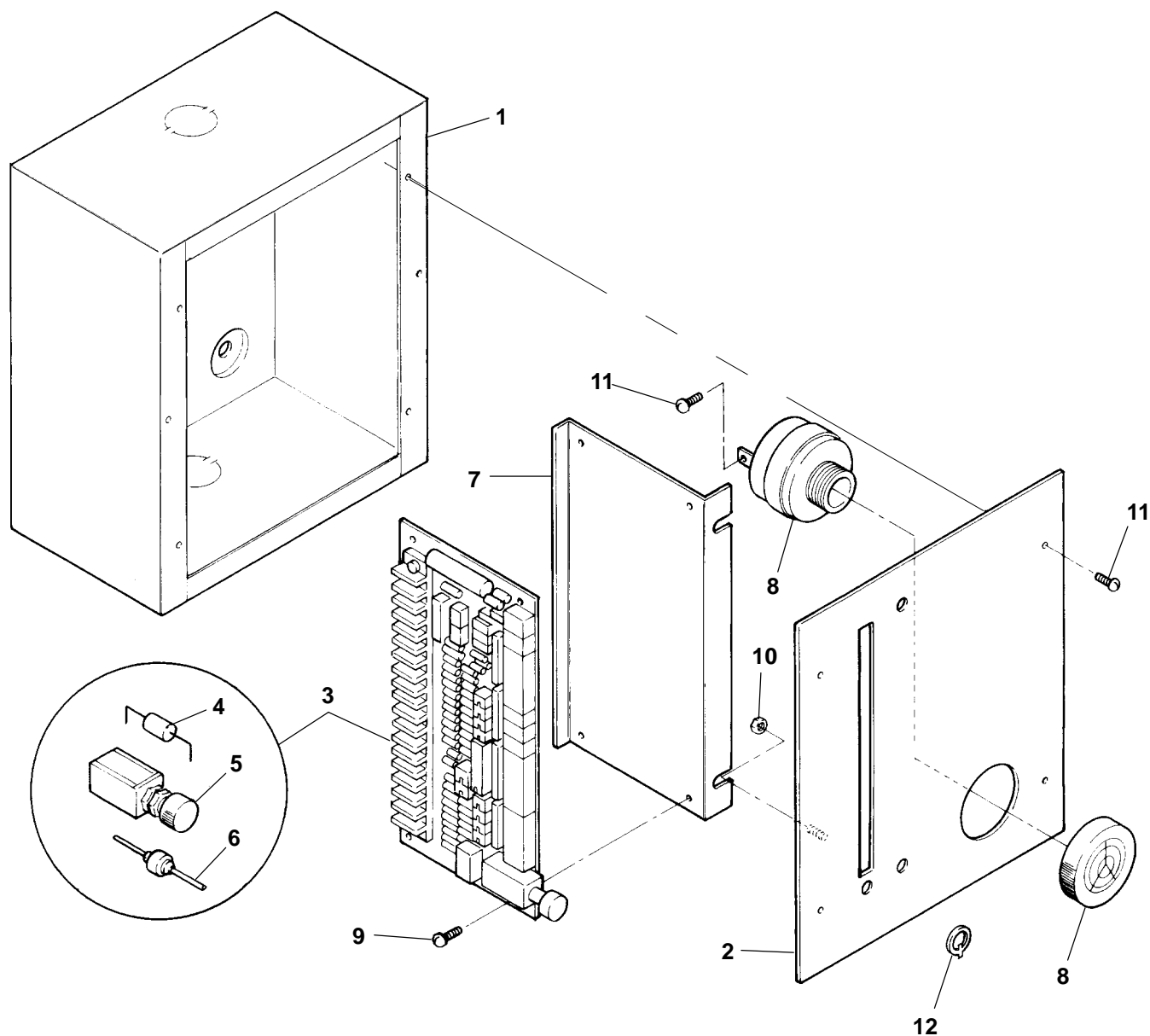
Radio Frequency Interference Module



B220

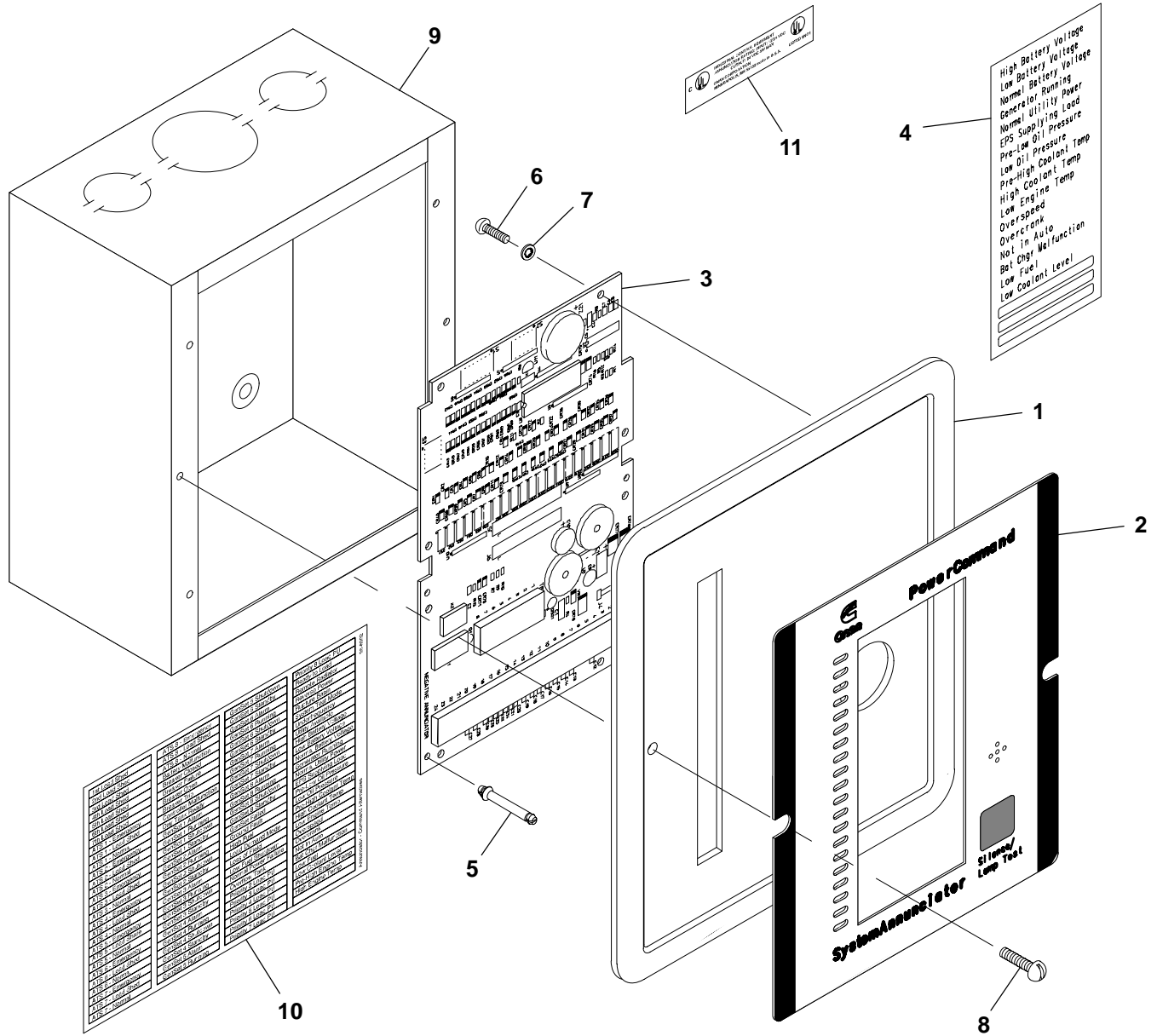
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	314-0212	1	Module (RFI)	6	314-0213	—	Shielding, Wire – Bulk (3" Wide) (Order By The Foot – 12 Feet Required) Used On AC Control Harness and Leads For RFI Module and Current Transformer
2	813-0107	4	Screw, Machine – Round Head (#10-32 x 1-1/4")				
3	526-0008	4	Washer, Flat (#10)				
4	870-0131	4	Nut, Hex – W/ET (#10-32)				
5	321-0327-01	4	Fuse (5 Amp)				

Remote Annunciator Panel
DFEB Spec J Through K, DFEC Spec C Through D
DFED Spec A Through B, DFFB Begin Spec J



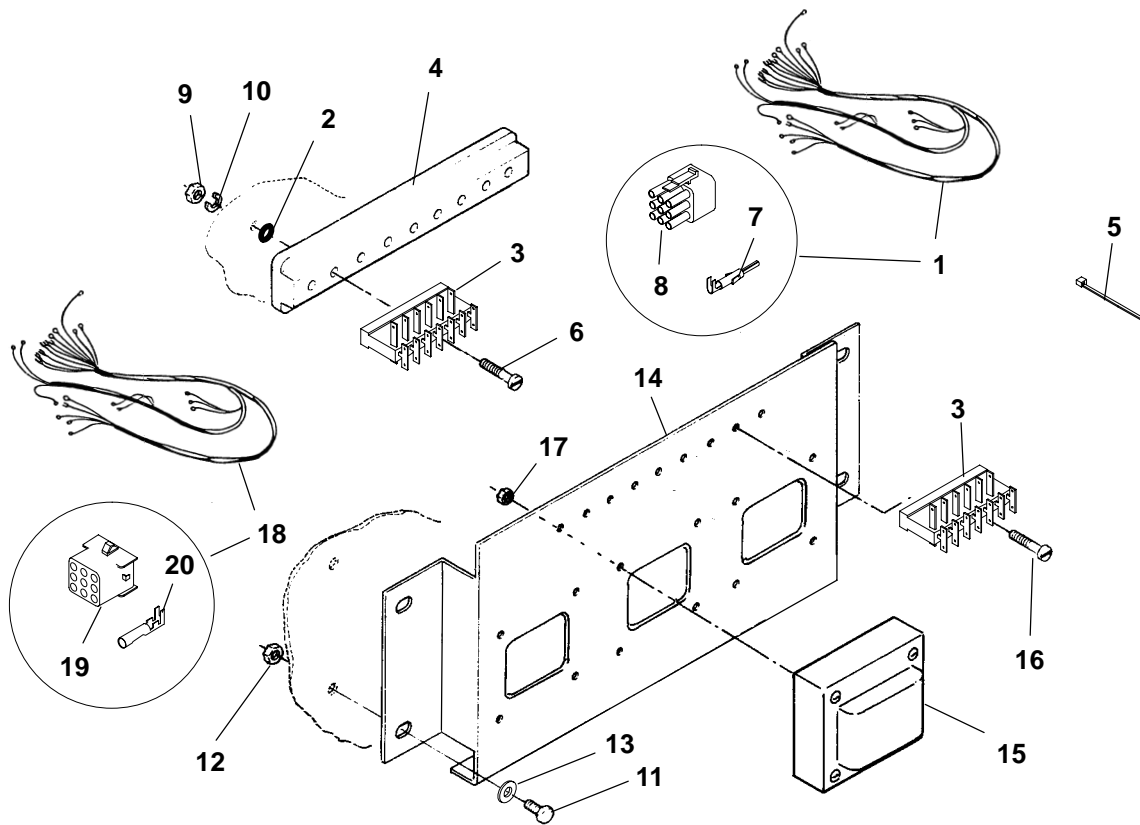
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-3090	1	Box, Control	6	359-0048	1	Diode (12 Volt, 5 Watt) (VR1)
2	301-7619	1	Panel	7	301-7620	1	Bracket, Mounting
3	300-2737	1	Board, Printed Circuit – Annunciator (Includes, Resistor, Switch, and Diode [Ref No. 4, 5, and 6])	8	333-0133	1	Signal, Audible
4	352-0180	1	Resistor (5 Watt, 100 Ohm) (R1)	9	812-0028	4	Screw, Machine – Round Head (#4-40 x 5/15")
5	308-0333	1	Switch, Push Button (S1)	10	870-0221	2	Nut, Hex – W/ET (8-32)
				11	812-0059	6	Screw, Machine – Round Head (#6-32 x 1/4")
				12	518-0440	1	Ring, Locking

Remote Annunciator Panel **DFEB Begin Spec L, DFEC Begin Spec F, DFED Begin Spec C**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2376	1	Panel, Annunciator	7	854-0004	2	Washer, Lock – IT (#4)
2	300-4507	1	Panel, Membrane	8	822-2160-11	2	Screw, Machine – Pan Head Slot (#6-32 x 3/8")
3	300-4508	1	Board, Printed Circuit – Annunciator	9	301-3090	1	Box, Control
4			Insert Card, Membrane	10			Label, Peel Off
	326-5376	1	English		098-6902	1	English
	326-5376-01		Spanish		098-6902-01	1	Spanish
5	332-3332-04	4	Post, Circuit Board	11	098-7184	1	Label, UL
6	812-0029	4	Screw, Machine – Round Head (#4-40 x 3/8")				

Auxiliary Terminal Block Generator Sets With Detector Control



B246
 B252
 B258
 B259
 B260
 B300
 B301
 B302
 B324
 B325
 B326
 B392

Auxiliary Terminal Block Generator Sets With Detector Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring	10	850-0025	3	Washer, Lock – Spring (#10)
			190-240, 380-480 Volt, 12 Lead Reconnectable Generators	11	821-0016	4	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
338-2491	1		Model HC5 Generators (AUX to TB21, VR21, A16, 8, 7, 6, 5, 4, X, XX, P2, P3, P4) (Includes Parts Marked *)	12	870-0257	4	Nut, Locking – Hex Flange Head (5/16-18) DFEB Spec J Through K DFEC Spec C Through D DFED Spec A, DFFB (Used on All Models Except Those that Use Wiring Harness 338-3359)
338-2530	1		Model HC6 Generators (AUX to TB21, VR21, A16, X, XX, P2, P3, P4, 5, 8, 7, 4, 6) (Includes Cable Ties [Ref No. 5])	13	526-2120	4	^ Washer, Flat (M10) DFEB Begin Spec L DFEC Begin Spec E DFED Begin Spec B
			600 Volt Generators	14	319-1245	1	^ Bracket, Mounting
338-2796	1		Model HC5 Generators DFEB Spec J Through K DFEC Spec C Through D DFED Spec A, DFFB (AUX to TB21, A16, VR21, TB1, TB2, 8, 7, 6, 5, X, XX, P2, P3, P4) (Includes Cable Ties [Ref No. 5])	15	315-0717	3	^ Transformer (PTW, PTV, PTU)
				16	812-0079	2	^ Screw, Machine – Round Head (#8-32 x 1/2") (Used with 338-2796 Wiring Harness)
338-3359	1		DFEB Begin Spec L DFEC Begin Spec E DFED Begin Spec B (AUX to TB21, A16, VR21, 8, 7, 6, 5, X, XX, P1, P2, P3, P4) (Includes Parts Marked #)	17	870-0221	12	^ Nut, Hex – W/ET (#8-32)
				18	338-3337	1	^ Harness, Wiring – Transformer (Includes Parts Marked •[Ref No. 19 and 20]) (J1 to PTW, PTV, PTU) DFEB Begin Spec L DFEC Begin Spec E DFED Begin Spec B
338-2867	1		4160-2400 Volt Generators	19	323-1644-02	1	^• Housing, Connector (9 Place) (J1) DFEB Begin Spec L DFEC Begin Spec E DFED Begin Spec B
			Model MV6 Generators (AUX to TB21, VR21, A16, X, XX, P2, P3, P4, TB1) (Includes Cable Ties [Ref No. 5])	20	323-1648	9	^• Socket, Contact DFEB Begin Spec L DFEC Begin Spec E DFED Begin Spec B
2	509-0065	3	*# Seal, O-Ring				
3	332-3007	3	*# Block, Terminal (AUX)				
4	232-3536	1	*# Base, Terminal Block				
5	332-1445	A/R	*# Tie, Cable				
6	812-0085	3	*# Screw, Machine – Round Head (#8-32 x 1-1/8")				
7	323-1647	8	# Pin, Contact				
8	323-1644-01	1	# Plug, Connector (9 Place) (P1)				
9	870-0221	3	Nut, Hex – W/ET (#8-32)				

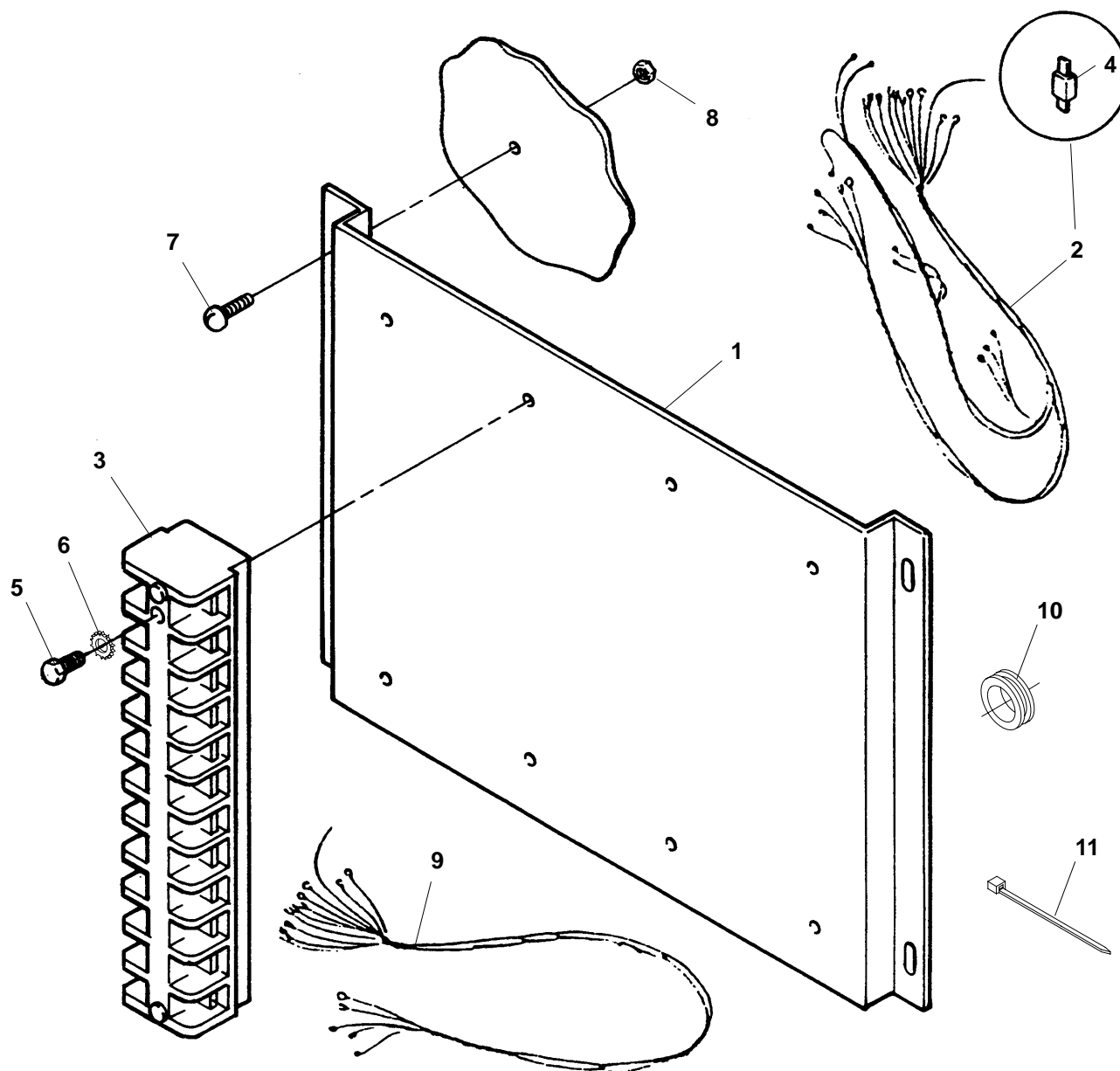
* – Parts Included In 338-2491 Wiring Harness

– Parts Included In 338-3359 Wiring Harness

• – Parts Included In 338-3337 Wiring Harness

^ – Used on Model HC5 600 Volt Generators Only

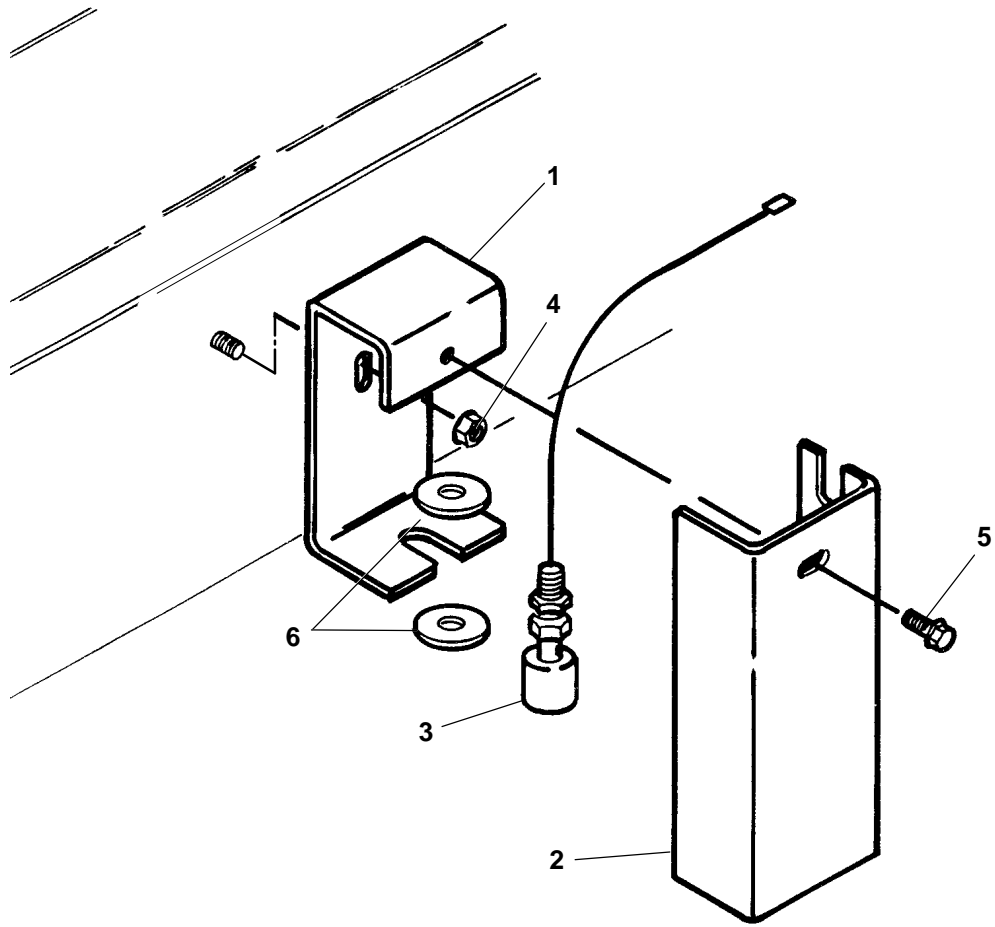
Paralleling Interconnect Terminal Block



KJ35

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1137	1	Panel, Mounting	6	853-0005	8	Washer, Lock - W/ET (#8)
2	338-2590	1	Harness, Wiring (Includes Four Terminal Blocks And Diode - Ref No. 3 and 4) (30 Wire, 84") (TB11, CR1 to VR21, CB21, ELM, A11 and GND)	7	813-0100	4	Screw, Machine - Round Head (#10-32 x 1/2")
3	332-2315	4	Block, Terminal (TB11)	8	870-0131	4	Nut, Hex - W/ET (#10-32)
4	357-0030	1	Diode (6 Amp) (CR1)	9	338-2172	1	Harness, Wiring - Governor (Shielded) (5 Wire, 39")
5	812-0085	8	Screw, Machine - Round Head (8-32 x 1-1/8")	10	508-0051	1	Grommet, Rubber (Fits 2" Hole) (Control Knockout)
				11	332-0942	A/R	Tie, Cable (Quantity Used As Required)

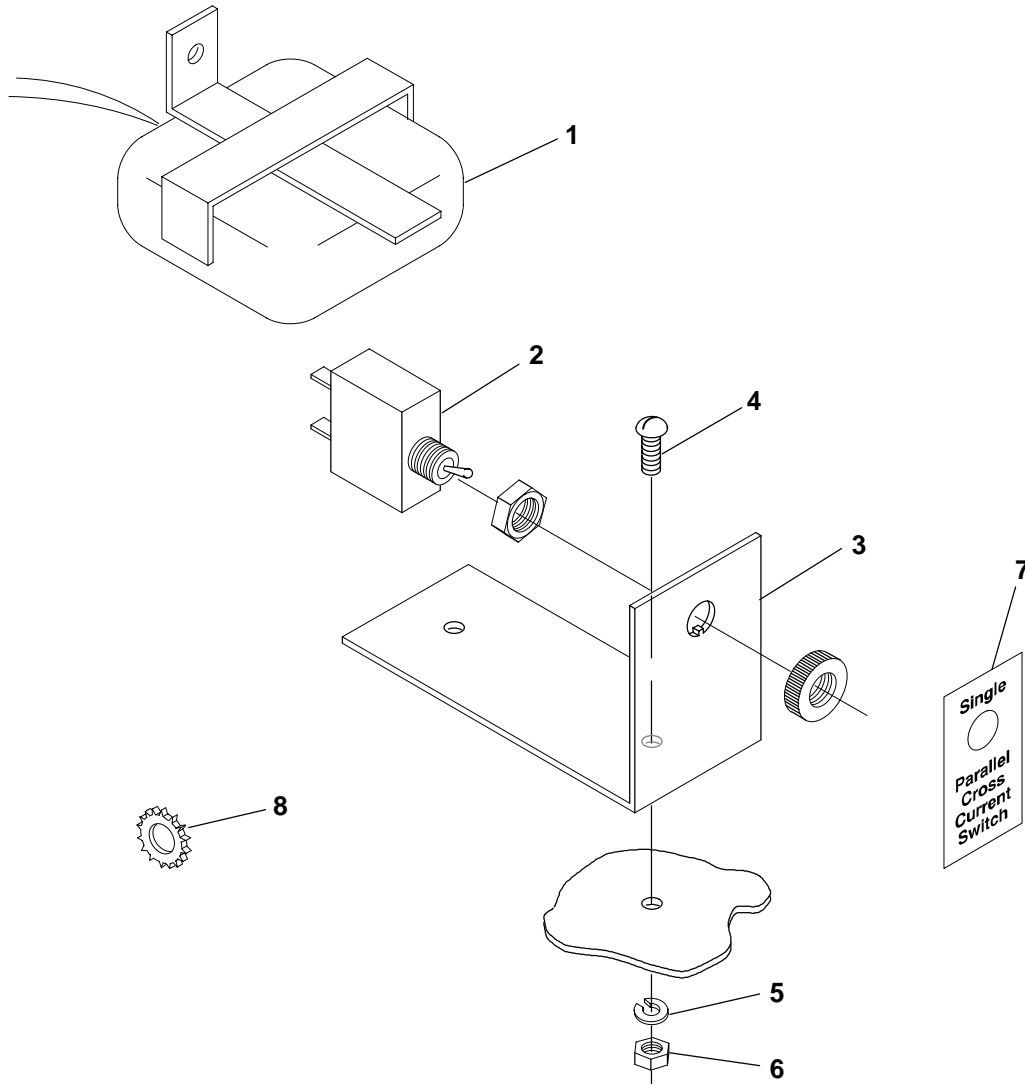
Float Switch



C158

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0490	1	Bracket, Mounting	5	821-5002-03	1	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
2	319-0489	1	Cover, Switch	6	526-0029	2	Washer, Flat (3/8")
3	308-0916-01	1	Switch, Float – Basin				
4	870-0257	1	Nut, Locking – Hex Flange (5/16-18)				

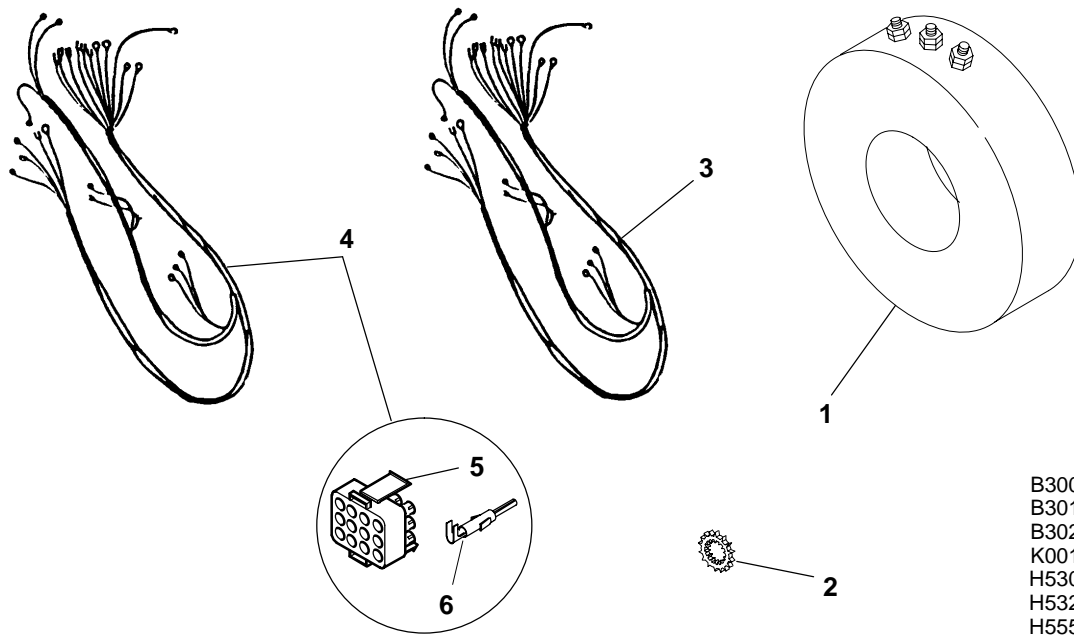
Cross Current Compensation Circuit



KJ35
K611

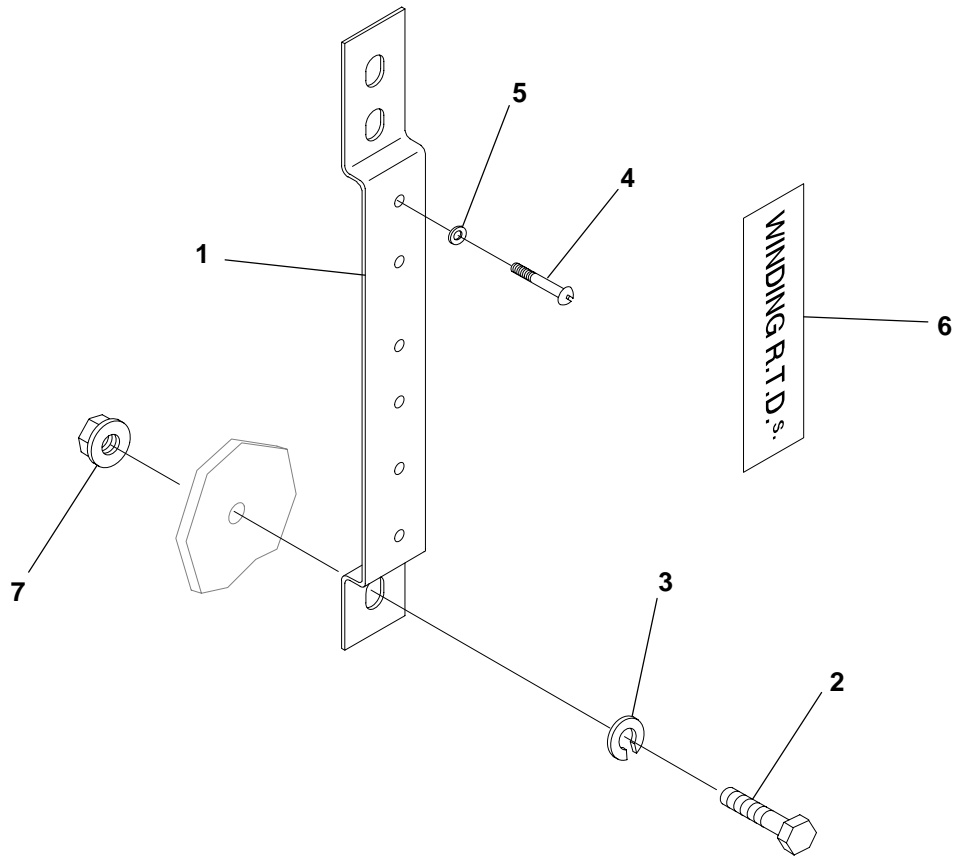
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1852-03	1	Transformer, Current (CT) – 600:0.38 Ratio	7	098-2313	1	Label, Cross Current Switch
2	308-0069	1	Switch, Toggle (S22)	8	853-0003	2	Washer, Lock – External Thread (#6)
3	301-9657	1	Bracket, Mounting				DFEB Begin Spec K
4	813-0100	2	Screw, Machine – Round Head (#10-32 x 1/2")				DFEC Begin Spec D
5	850-0030	2	Washer, Lock – Spring (#10)				DFED
6	870-0053	2	Nut, Hex (#10-32)				DFFB Begin Spec L

Current Transformer



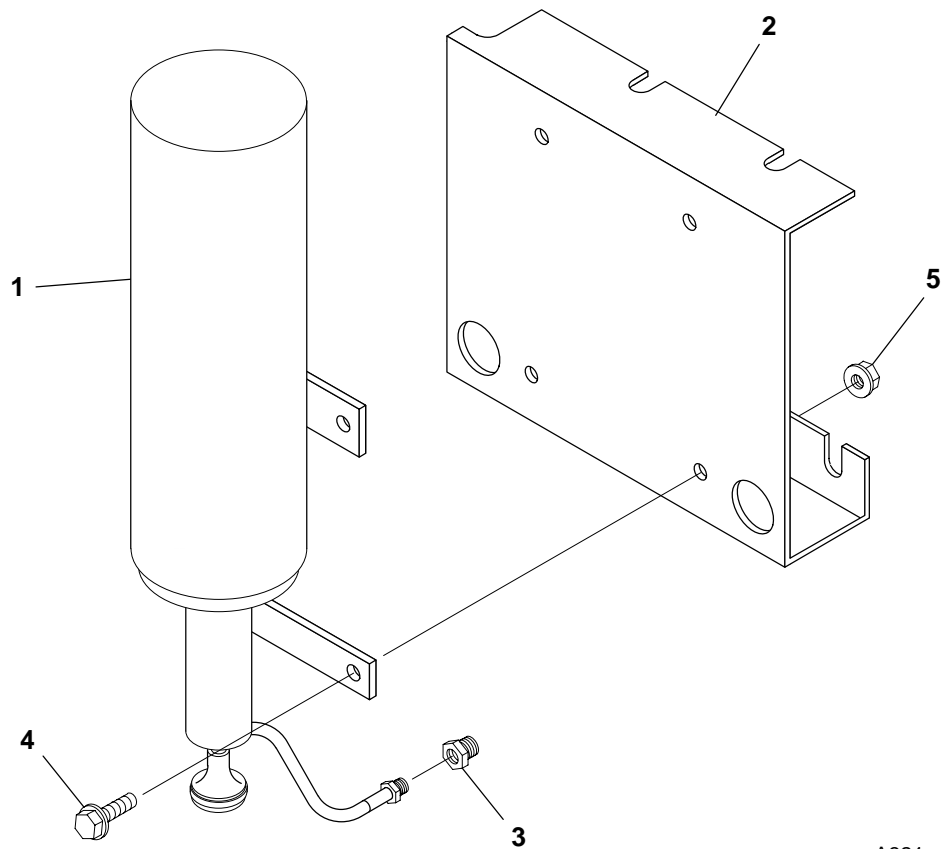
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT21, CT22, CT23) Generator Sets With Detector Control				DFEB Begin Spec S DFEC Begin Spec K DFED Begin Spec G
			DFEB Spec J Through R	302-2057-24	3		Ratio 946/1 or 1892/1
			DFEC Spec C Through J	302-2057-26	3		Ratio 1070/1 or 2140/1
			DFED Spec A Through F	302-2057-27	3		Ratio 1104/1 or 2208/1
			DFFB Begin Spec J	302-2057-29	3		Ratio 1262/1 or 2524/1
302-1794-10	3		Ratio 600/5 or 1200/5	302-2057-31	3		Ratio 1419/1 or 2838/1
302-1794-11	3		Ratio 750/5 or 1500/5	302-2057-33	3		Ratio 1577/1 or 3154/1
302-1794-12	3		Ratio 1000/5 or 2000/5	2	856-0008	2	Washer, Lock – EIT (5/16") (Grounding Wires)
			DFEB Begin Spec S	3			Harness, Wiring – Generator Sets With Detector Control (TB21 To GND, CT21, CT22, CT23)
			DFEC Begin Spec K				61", 7 Wire
			DFED Begin Spec G				79", 7 Wire
302-2055-10	3		Ratio 600/5 or 1200/5				Harness, Wiring – Generator Sets With PowerCommand Control (Includes Plug and Socket Terminals – Ref No. 5 and 6) (10 Wire, 60") (P9 to CT21, CT22, CT23 and 5, 6, 7, 8)
302-2055-11	3		Ratio 750/5 or 1500/5	338-1980	1		Plug – 12 Place – Generator Sets With PowerCommand Control (P9)
302-2055-12	3		Ratio 1000/5 or 2000/5	338-2532	1		Socket, Terminal – Generator Sets With PowerCommand Control
			Generator Sets With Power Command Control	4	338-3019	1	
			DFEB Spec J Through R				
			DFEC Spec C Through J				
			DFED Spec A Through F				
			DFFB Begin Spec J				
302-1922-03	3		Ratio 173/1 or 346/1				
302-1922-24	3		Ratio 946/1 or 1892/1	5	323-1644-03	1	
302-1922-26	3		Ratio 1070/1 or 2140/1				
302-1922-27	3		Ratio 1104/1 or 2208/1				
302-1922-29	3		Ratio 1262/1 or 2524/1				
302-1922-31	3		Ratio 1419/1 or 2838/1	6	323-1648	10	
302-1922-33	3		Ratio 1577/1 or 3154/1				

Resistive Temperature Detectors



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	800-2052	2	Screw, Cap – Hex Head M8 x 12mm (Used on Generator Sets with HC6 Frame)	5	526-0002	4	Washer, Flat (#6)
	821-0029	2	3/8-16 x 3/4" (Used on Generator Sets with HC5 Frame)	6	098-6488	1	Label, R.T.D.
3	850-2008	2	Washer, Lock – Spring (M10) (Used on Generator Sets with HC6 Frame)	7	870-0281	2	Nut, Self-Locking (3/8-16) (Used on Generator Sets with HC5 Frame)

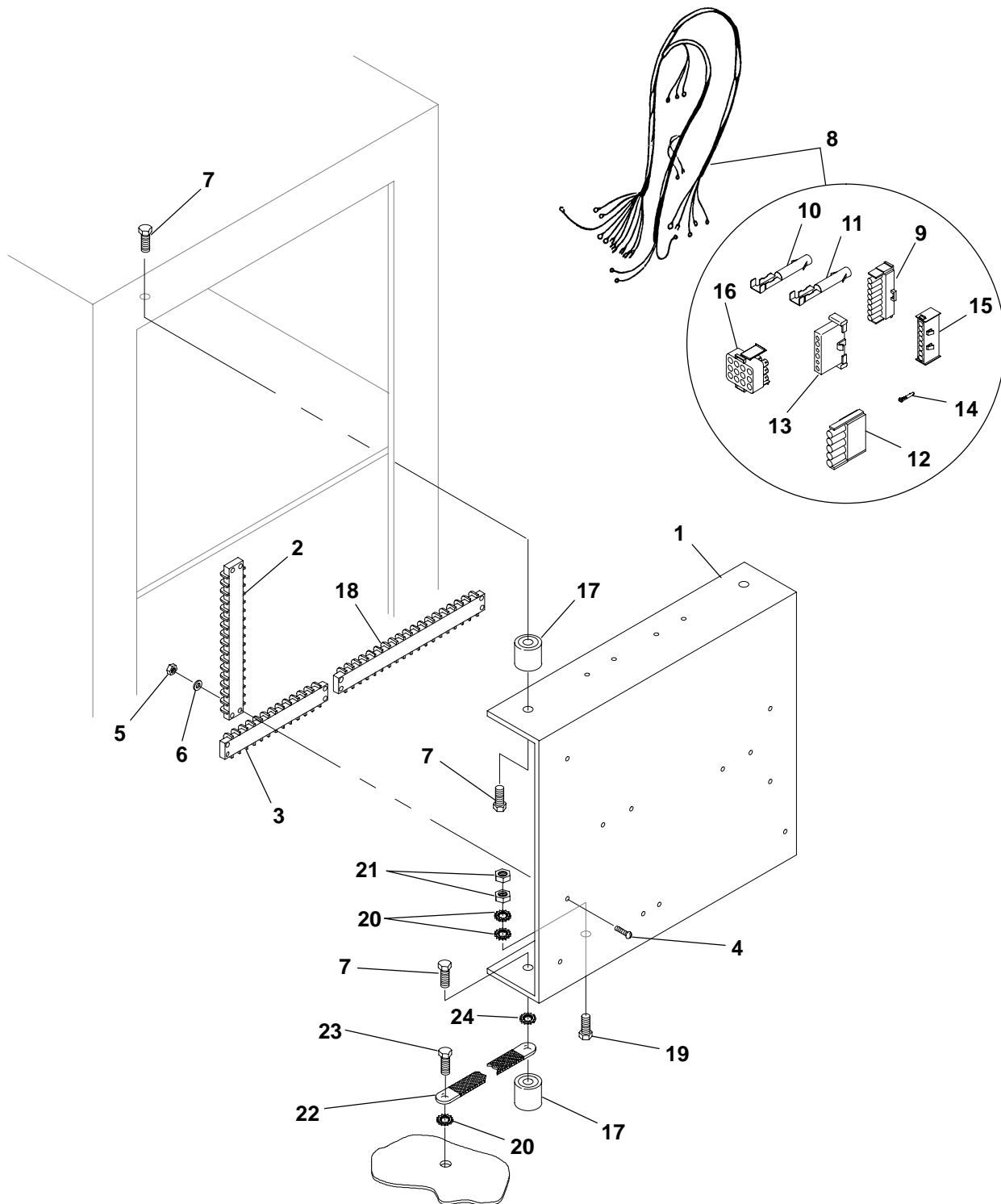
Starting Aid



A321

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2306-01	1	Aid, Starting	4	821-0018	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")
2	140-2807	1	Bracket, Starting Aid	5	870-0212	4	Nut, Locking (1/4-20)
3	505-1405	1	Bushing, Pipe				

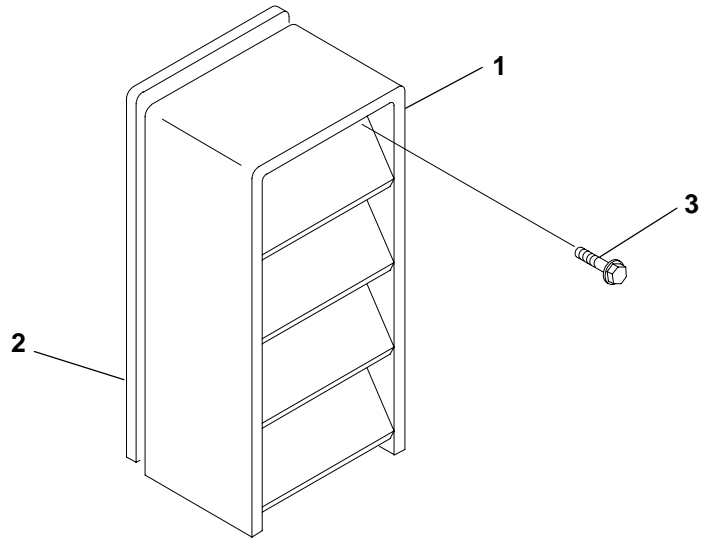
Remote Control



Remote Control

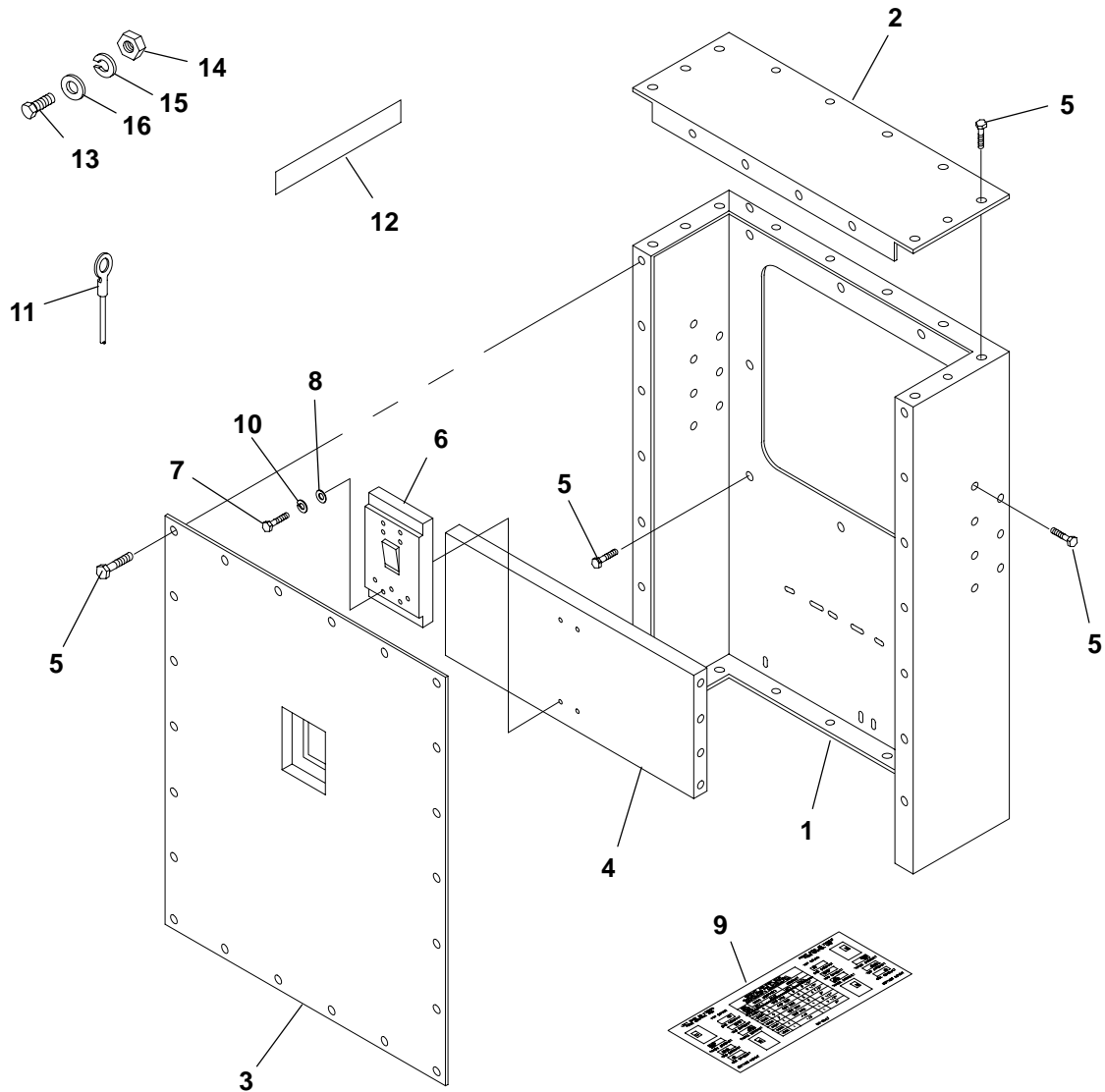
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1017	1	Panel, Control	10			Socket, Contact – Female (Quantity Used As Required)
2	332-0795	1	Block, Terminal (16 Place) (TB21)		323-1200	1	Used With Wiring Harnesses 338-2569 And 338-2570
3	332-0607	1	Block, Terminal – 12 Place				
4	812-0066	6	Screw, Machine – Round Head (#6-32 x 3/4")	11			Socket, Contact – Female (Quantity Used As Required)
5	860-1005	6	Nut, Hex (#6-32)		323-1648	1	Used With Wiring Harness 338-3429
6	526-0003	6	Washer, Flat (#8)				
7	821-0014	8	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")	12	323-1304	1	Housing, Connector (6 Place) Used With Wiring Harness 338-2570 (J2)
8			Harness, Wiring (Includes Connector Housing And Pins Or Sockets)	13	323-1342	1	Housing, Connector (6 Place) Used With Wiring Harness 338-2571 (P2)
	338-2569	1	20" – 6 Wire (J1 To TB21, GRD, A11) (Includes Connector Housing and Contact Socket – Ref No. 9 and 10)	14	323-1199	1	Pin, Contact – Male (Quantity Used As Required) Used With Wiring Harnesses 338-2571 And 338-2756
	338-2570	1	12" – 6 Wire (J2 To A11) (Includes Contact Socket and Connector Housing – Ref No. 10 and 12)	15	323-1343	1	Housing, Connector (8 Place) Used With Wiring Harness 338-2756 (P1)
	338-2571	1	12" – 6 Wire (P2 To A11) (Includes Connector Housing and Contact Pin – Ref No. 13 and 14)	16	323-1644-02	1	Housing, Connector (9 Place) Used With Wiring Harness 338-3429 (P2)
	338-2756	1	12" – 3 Wire (P1 To A11) (Includes Contact Pin and Connector Housing – Ref No. 14 and 15)	17	402-0527	4	Isolator, Vibration
				18	332-1243	1	Block, Terminal – 18 Place
				19	800-0007	1	Screw, Cap – Hex Head (1/4-20 x 1")
	338-3429	1	11" – 9 Wire (P2 To TB21) (Includes Contact Socket and Connector Housing – Ref No. 11 and 16)	20	856-0006	3	Washer, Lock – EIT (1/4")
				21	871-0015	2	Nut, Hex – Brass (1/4-20)
				22	337-0049	1	Strap, Ground
				23	821-0010	2	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
9	323-1306	1	Housing, Connector (8 Place) Used With Wiring Harness 338-2569 (J1)	24	856-0008	1	Washer, Lock – EIT (5/16")

Louvre DFEC



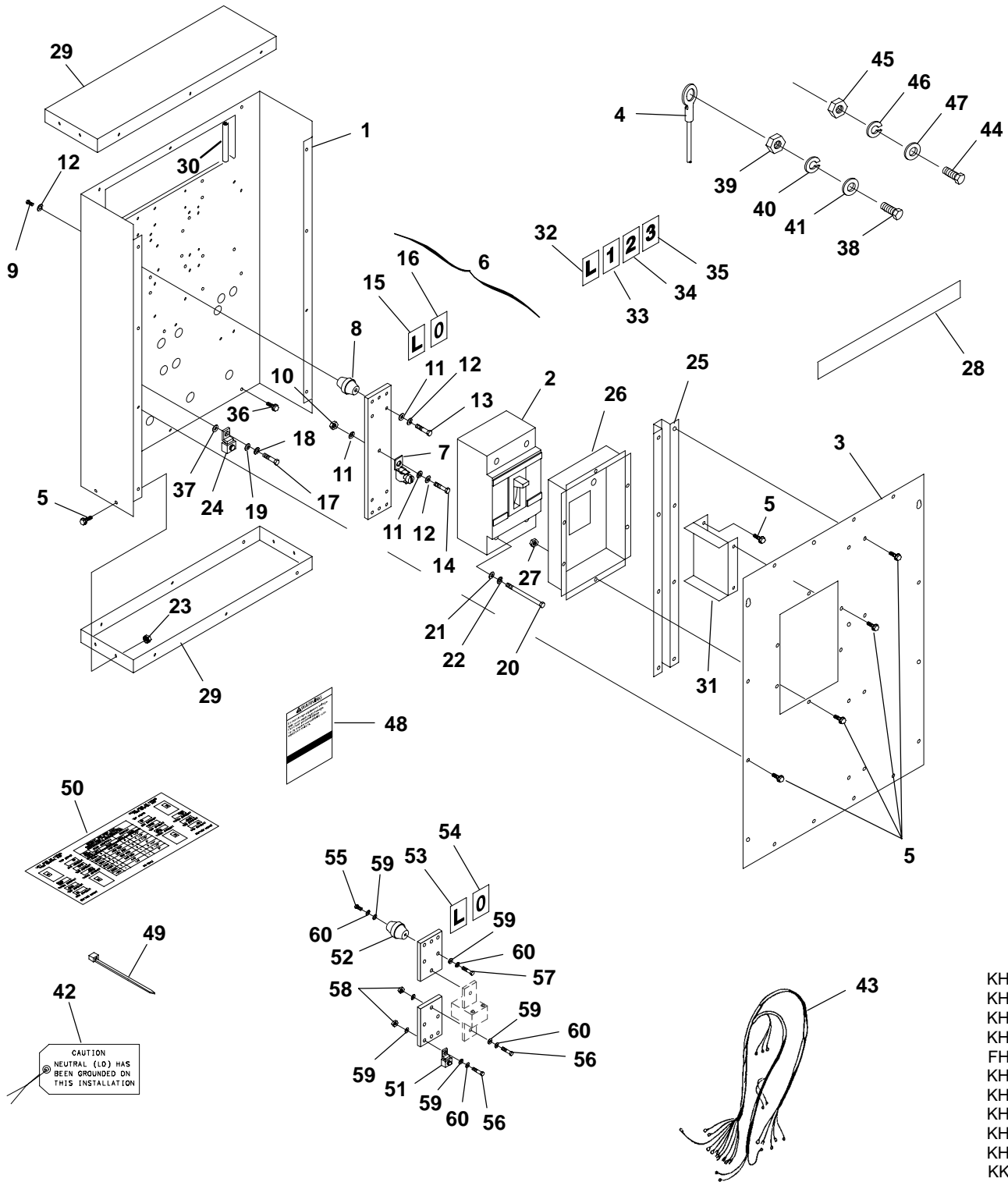
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	234-0900-04	2	Louvre – Frame HC5 Generators	3	821-2023	12	Screw, Self-Locking – Hex Washer Head (M5 x 20mm)
2	234-0901-04	2	Gasket, Louvre				

**Circuit Breaker
UL Listed
DFFB Spec J**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0890	1	Box, Circuit Breaker	10	850-0045	4	Washer, Lock – Spring (5/16")
2	319-0892	2	Panel	11			Lead, Circuit Breaker (Quantity Used As Required) (#1/0 Wire)
3	319-0893	1	Cover		226-3371	1	40"
4	319-0891	1	Bracket, Mounting		226-3376	1	56"
5	821-0010	60	Screw, Self-Locking – Hex Washer Head (1/4–20 x 1/2")	12	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers) (Quantity Used As Required)
6			Breaker, Circuit (CB21) (Includes Lugs and Interchangeable Trip)	13	800-0094	8	Screw, Cap – Hex Head (1/2–13 x 2")
	320-1461-08	1	Standard 800 Amp	14	862-0005	8	Nut, Hex (1/2–13)
	320-1473-08	1	With Shunt Trip 800 Amp	15	850-0060	8	Washer, Lock – Spring (1/2")
7	800-0031	4	Screw, Cap – Hex Head (5/16–18 x 1–1/2")	16	526-0219	16	Washer, Flat (1/2")
8	526-0115	4	Washer, Flat (5/16")				
9	098-6832	1	Label, Conduit Information				

Circuit Breaker
UL Listed
Model HC5 Generators
DFEB Spec J Through L, DFEC Spec C Through E
DFED Spec A Through B, DFFB Begin Spec J



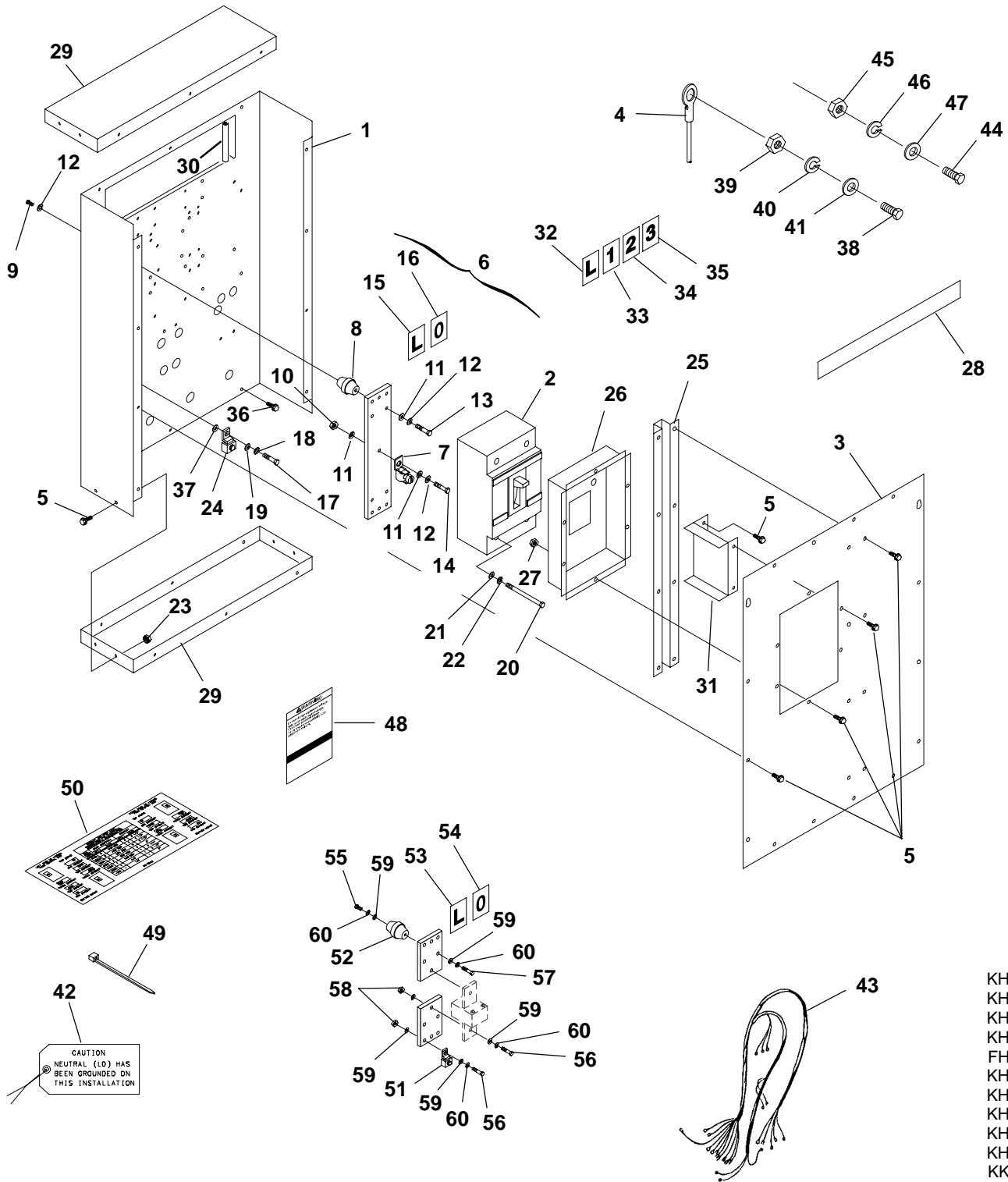
**Circuit Breaker
UL Listed
Model HC5 Generators
DFEB Spec J Through L, DFEC Spec C Through E
DFED Spec A Through B, DFFB Begin Spec J**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2432	1	Box, Circuit Breaker				With Auxiliary Contacts and 24 Volt Shunt Trip
2			Breaker, Circuit – 3 Pole With Interchangeable Trip (Includes Lugs) (CB21)				
			Standard				
	320-1458-45	1	100 Amp		320-1491-09	1	200 Amp
	320-1458-48	1	150 Amp		320-1491-10	1	225 Amp
	320-1459-09	1	200 Amp		320-1492-06	1	250 Amp
	320-1459-10	1	225 Amp		320-1492-07	1	300 Amp
	320-1460-06	1	250 Amp		320-1492-08	1	350 Amp
	320-1460-07	1	300 Amp		320-1492-09	1	400 Amp
	320-1460-08	1	350 Amp		320-1492-10	1	450 Amp
	320-1460-09	1	400 Amp		320-1492-11	1	500 Amp
	320-1460-10	1	450 Amp		320-1492-12	1	600 Amp
	320-1460-11	1	500 Amp		320-1493-07	1	700 Amp
	320-1460-12	1	600 Amp		320-1493-08	1	800 Amp
	320-1461-07	1	700 Amp		320-1493-09	1	1000 Amp
	320-1461-08	1	800 Amp		320-1493-10	1	1200 Amp
	320-1461-09	1	1000 Amp				With Auxiliary Contacts and Bell Alarm
	320-1461-10	1	1200 Amp		320-1641-11	1	800 Amp
			With Auxiliary Contacts		320-1641-13	1	1200 Amp
	320-1462-48	1	150 Amp				With Auxiliary Contacts, 24 Volt Shunt Trip, and Bell Alarm
	320-1463-09	1	200 Amp		320-1799	1	350 Amp
	320-1463-10	1	225 Amp		320-1845	1	400 Amp
	320-1464-06	1	250 Amp		320-1848	1	450 Amp
	320-1464-07	1	300 Amp		320-1800	1	500 Amp
	320-1464-08	1	350 Amp		320-1904	1	700 Amp
	320-1464-09	1	400 Amp		320-1847	1	800 Amp
	320-1464-10	1	450 Amp				With Auxiliary Contacts and Ground Fault
	320-1464-11	1	500 Amp		320-1909-28	1	150 Amp
	320-1464-12	1	600 Amp		320-1909-29	1	200 Amp
	320-1465-07	1	700 Amp		320-1909-30	1	300 Amp
	320-1465-08	1	800 Amp		320-1909-31	1	400 Amp
	320-1465-09	1	1000 Amp		320-1909-32	1	500 Amp
	320-1465-10	1	1200 Amp		320-1909-33	1	600 Amp
			With 24 Volt Shunt Trip		320-1909-34	1	800 Amp
	320-1471-09	1	200 Amp		320-1909-35	1	1000 Amp
	320-1471-10	1	225 Amp		320-1909-36	1	1200 Amp
	320-1472-06	1	250 Amp	3	319-1917	1	Cover, Circuit Breaker
	320-1472-07	1	300 Amp	4			Lead, Circuit Breaker
	320-1472-08	1	350 Amp				(Quantity Used As Required)
	320-1472-09	1	400 Amp				39" (Without Markings)
	320-1472-10	1	450 Amp				(#1/0 Wire)
	320-1472-11	1	500 Amp		226-4406-03	1	1/2" Ring Terminal End to 1" Stripped End
	320-1472-12	1	600 Amp		226-4406-04	1	1/2" Ring Terminal End to 1/2" Ring Terminal End
	320-1473-07	1	700 Amp				Screw, Self-Locking – Hex Washer Head (1/4–20 x 1/2")
	320-1473-08	1	800 Amp	5			Circuit Breakers with Auxiliary Contacts and Ground Faults
	320-1818-08	1	900 Amp		821-0010	40	All Other Circuit Breakers
	320-1473-09	1	1000 Amp				
	320-1473-10	1	1200 Amp				
			With 24 Volt Shunt Trip and Bell Alarm				
	320-1637-10	1	700 Amp				
	320-1637-16	1	800 Amp		821-5002-03	40	

* – Parts Included In 300-4318-01 Neutral Bar Assembly

Continued...

Circuit Breaker
UL Listed
Model HC5 Generators
DFEB Spec J Through L, DFEC Spec C Through E
DFED Spec A Through B, DFFB Begin Spec J



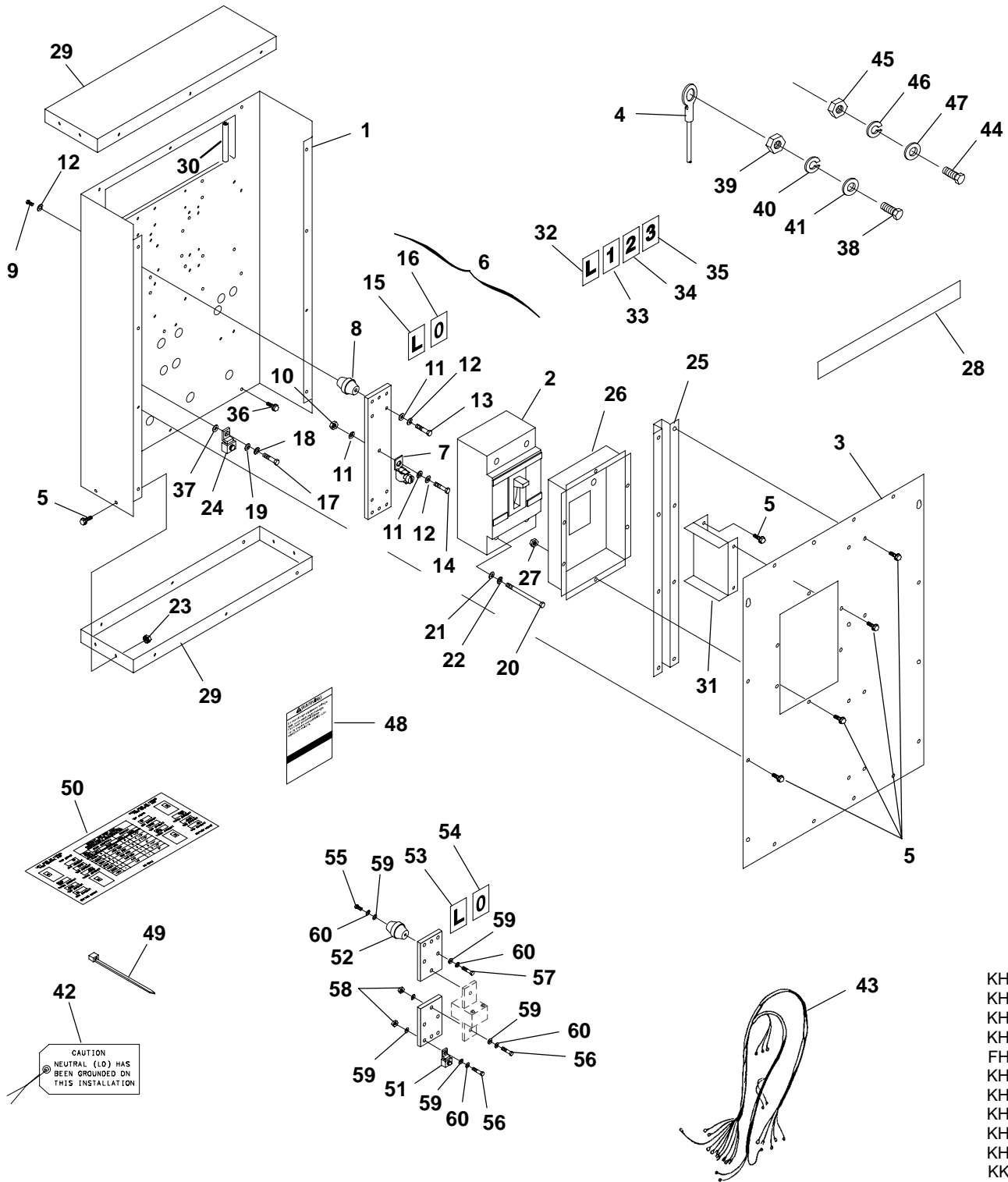
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**Circuit Breaker
UL Listed
Model HC5 Generators
DFEB Spec J Through L, DFEC Spec C Through E
DFED Spec A Through B, DFFB Begin Spec J**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	300-4318-01	1	Bar Assembly, Neutral (Includes Neutral Bars and Parts Marked *) – All Circuit Breakers Except Those with Auxiliary Contacts and Ground Fault	26	319-2431-12	1	Cup, Circuit Breaker 1-7/16" x 3-9/16" Opening 200 Amp Breakers
7	332-2001	3	* Lug, Solderless		319-2431-22	1	2-9/16" x 3-5/8" Opening 500 Amp Breakers with Auxiliary Contacts and Ground Fault
8	332-2744-07	2	* Standoff, Insulator		319-2431-13	1	250 To 600 Amp Breakers
9	800-0048	2	* Screw, Cap – Hex Head (3/8-16 x 3/4")		319-2431-14	1	3-1/8" x 4-1/8" Opening 700 to 1200 Amp Breakers
10	862-0003	3	* Nut, Hex (3/8")	27	870-0212	6	Nut, Locking (1/4-20)
11	526-0029	8	* Washer, Flat (3/8")	28	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers) (Quantity Used As Required)
12	850-0050	7	* Washer, Lock – Spring (3/8")				
13	800-0051	2	* Screw, Cap – Hex Head (3/8-16 x 1-1/4")				
14	800-0052	3	* Screw, Cap – Hex Head (3/8-16 x 1-1/2")	29	319-1915	2	Panel
15	098-5854-06	1	* Label, Marker – Marked "L"	30	508-1092	-	Edging – Bulk (Order By The Foot – 3 Feet Required)
16	098-5854-10	1	* Label, Marker – Marked "0"	31	319-1927	1	Brace, Cover
17	800-0050	1	Screw, Cap – Hex Head (3/8-16 x 1")	32	098-5854-06	3	Label, Marker (10 Characters Per Card) Marked "L"
18	850-0050	1	Washer, Lock – Spring (3/8")	33	098-5854-07	1	Label, Marker (10 Characters Per Card) Marked "1"
19	526-0029	1	Washer, Flat (3/8")	34	098-5854-08	1	Label, Marker (10 Characters Per Card) Marked "2"
20			Screw	35	098-5854-09	1	Label, Marker (10 Characters Per Card) Marked "3"
	813-0118	4	Machine, – Round Head (#10-32 x 4-1/2") 200 Amp Breakers	36			Screw, Self-Locking – Hex Washer Head (1/4-20 x 3/8") – Breakers With Auxiliary Contacts and Ground Fault (1/4-20 x 5/8") – All Other Breakers
	812-0157	4	Machine – Round Head (1/4-20 x 1-3/4") 250 to 600 Amp Breakers		821-0009	5	
	800-0031	4	Cap – Hex Head (5/16-18 x 1-1/2") 700 To 1200 Amp Breakers		821-5002-04	5	
21			Washer, Flat #10 – 200 Amp Breakers	37	856-0010	1	Washer, Lock – EIT (3/8") The following four hardware items are used to fasten the load leads to the generator and neutral bar. Quantity used as required.
	526-0008	4	1/4" – 250 To 600 Amp Breakers				
	526-0108	4	5/16" – 700 To 1200 Amp Breakers				
22			Washer, Lock – Spring #10 – 200 Amp Breakers	38	800-0094	1	Screw, Cap – Hex Head (1/2-13 x 2")
	850-0030	4	1/4" – 450 To 600 Amp Breakers	39	862-0005	1	Nut, Hex (1/2-13)
	850-0040	4	5/16" – 700 To 1200 Amp Breakers	40	850-0060	1	Washer, Lock – Spring (1/2")
	850-0045	4	Nut, Self-Retaining (1/4-20)	41	526-0219	1	Washer, Flat (1/2")
23	870-0494	16	Lug, Solderless				
24	332-2001	1	Brace, Cover				
25	319-1918	1					

* – Parts Included In 300-4318-01 Neutral Bar Assembly
Continued...

Circuit Breaker
UL Listed
Model HC5 Generators
DFEB Spec J Through L, DFEC Spec C Through E
DFED Spec A Through B, DFFB Begin Spec J

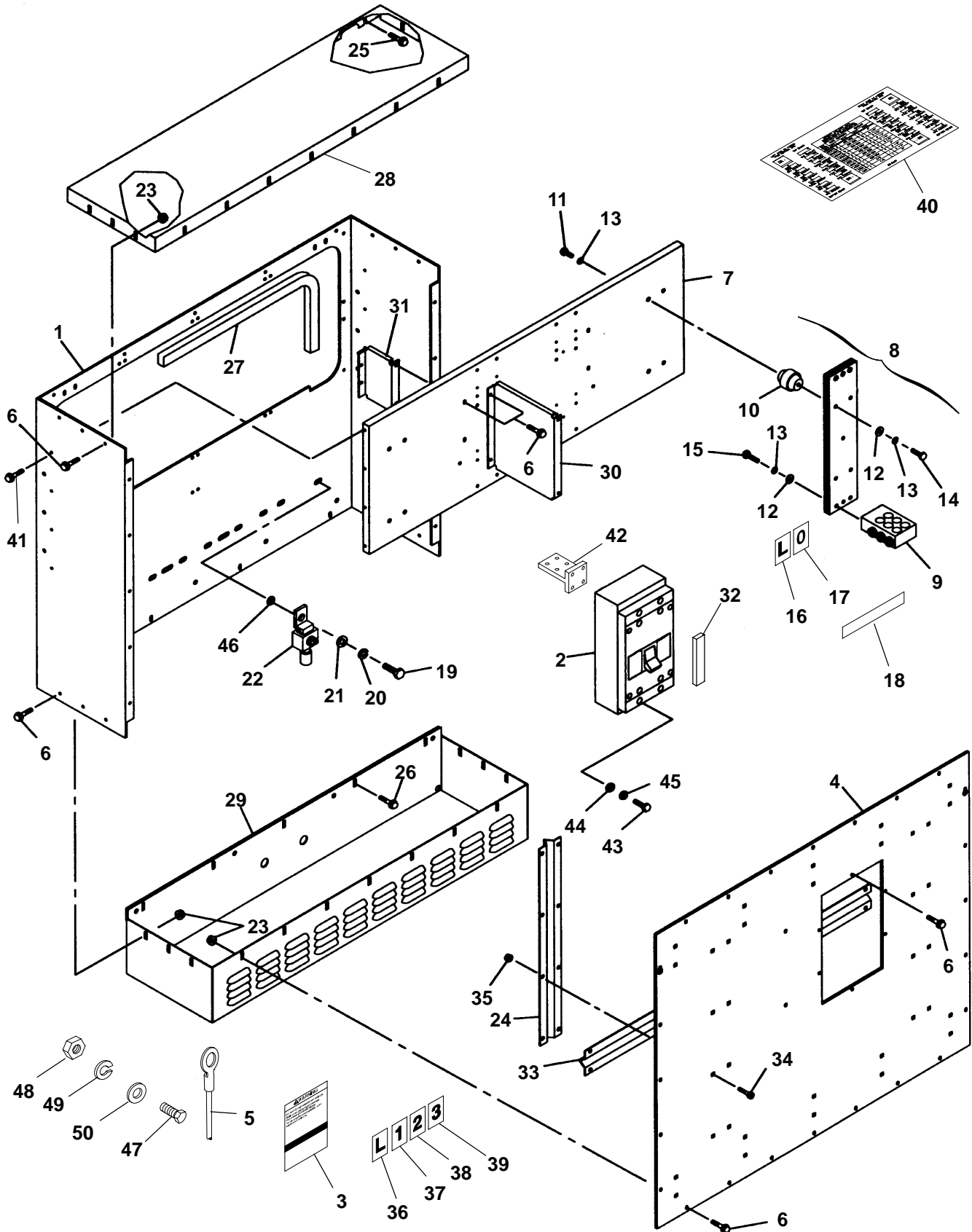


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**Circuit Breaker
UL Listed
Model HC5 Generators
DFEB Spec J Through L, DFEC Spec C Through E
DFED Spec A Through B, DFFB Begin Spec J**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
The following six hardware items are used only on Breakers with Auxiliary Contacts and Ground Fault.				53	098-5854-06	1	+ Label, Marker – Marked “L”
				54	098-5854-10	1	+ Label, Marker – Marked “0”
				55	800-0048	2	+ Screw, Cap – Hex Head (3/8-16 x 3/4”)
42	098-6943	1	Tag, Caution	56	800-0052	4	+ Screw, Cap – Hex Head (3/8-16 x 1-1/2”)
43	338-3012	1	Harness, Transformer	57	800-0051	2	+ Screw, Cap – Hex Head (3/8-16 x 1-1/4”)
44	800-0054	3	Screw, Cap – Hex Head (3/8-16 x 2”)	58	862-0003	4	+ Nut, Hex (3/8”)
45	862-0003	3	Nut, Hex (3/8-16)	59	526-0029	12	+ Washer, Flat (3/8”)
46	850-0050	3	Washer, Lock – Spring (3/8”)	60	850-0050	8	+ Washer, Lock – Spring (3/8”)
47	526-0029	6	Washer, Flat (3/8”)	* – Parts Included In 300-4318-01 Neutral Bar Assembly + – Parts Included In Neutral Bar Assembly – Circuit Breakers with Auxiliary Contacts and Ground Fault			
48	098-2304	1	Label, Warning				
49	332-1389	A/R	Tie, Cable				
50	098-6832	1	Label, Conduit Information				
51	332-2001	2	+ Lug, Solderless				
52	332-2744-07	2	+ Standoff, Insulator				

**Circuit Breaker
UL Listed
Model HC6 Generators
DFED Spec A and B, DFFB Begin Spec K**

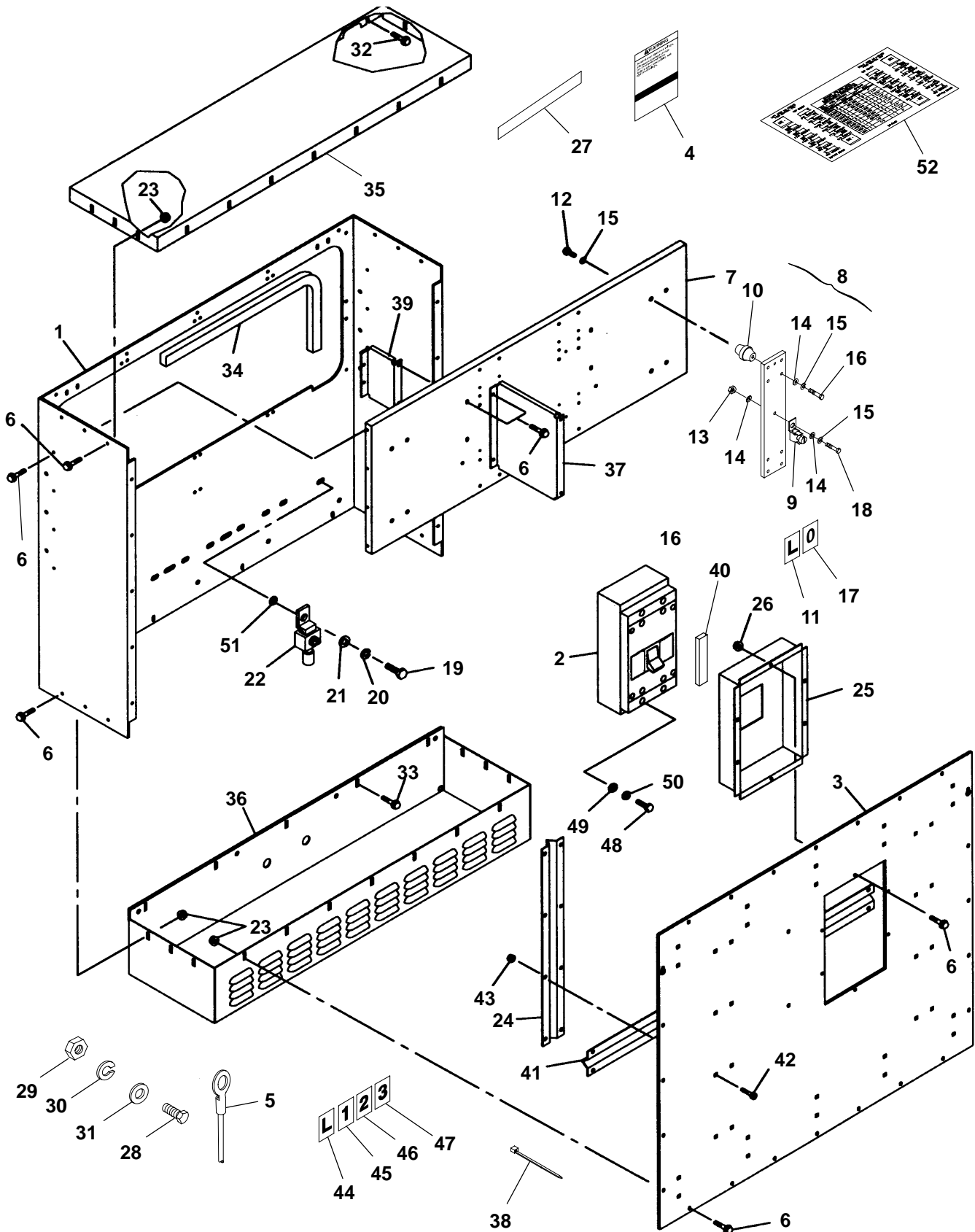


**Circuit Breaker
UL Listed
Model HC6 Generators
DFED Spec A and B, DFFB Begin Spec K**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1957	1	Box, Circuit Breaker	27	508-1109	–	Edging – Bulk (Order By The
2			Breaker, Circuit (Includes				Foot – 3 Feet Required)
			Mounting Screws and Bus	28	319-1961	1	Panel – Top
			Bars) 3 Pole (CB21)	29	319-1925	1	Panel – Bottom
			Standard	30	319-1926-02	1	Brace, Cover
	320-1783	1	Frame Size	31	319-2316-02	1	Brace, Mounting Bracket –
			CM1600-HH				Circuit Breaker
	320-1783-02	1	Frame Size	32	895-0182	–	Stripping, Weather – Bulk
			CM2000-HH				(Order By The Foot – 4
			With 24 Volt Shunt Trip				Feet Required)
	320-1783-06	1	Frame Size	33	319-2399	2	Brace, Cover (Horizontal)
			CM2000-HH	34	816-0098	36	Bolt, Carriage (5/16-18 x
3	098-2304	1	Label, Warning				5/8")
4	319-1959-01	1	Cover, Circuit Breaker	35	870-0257	36	Nut, Locking (5/16-18)
5	226-4498-03	1	Lead – Circuit Breaker	36	098-5854-06	3	Label, Marker (10 Characters
			(Quantity Used As				Per Card) Marked "L"
			Required) (Without	37	098-5854-07	1	Label, Marker (10 Characters
			Markings) (#1/0 Wire)				Per Card) Marked "1"
6	821-0010	44	Screw, Self-Locking – Hex	38	098-5854-08	1	Label, Marker (10 Characters
			Washer Head (1/4-20 x				Per Card) Marked "2"
			1/2")	39	098-5854-09	1	Label, Marker (10 Characters
7	319-1962	1	Bracket, Mounting – Circuit				Per Card) Marked "3"
			Breaker	40	098-6865	1	Label, Conduit Information
8	300-4480-01	1	Bar Assembly, Neutral	41	821-0030	6	Screw, Self-Locking – Hex
			(Includes Neutral Bars and				Washer Head (3/8-16 x 1")
			Parts Marked *)	42			Bar, Bus (T-Bar) (Includes
9	332-3303-01	1	* Lug, Solderless				Mounting Hardware)
10	332-2744-07	4	* Standoff, Insulator		337-2789	4	Sets With CM1250-HH
11	800-0048	4	* Screw, Cap – Hex Head				and CM1600-HH
			(3/8-16 x 3/4")				Breakers
12	526-2120	7	* Washer, Flat (M10)		337-2789	1	Sets With CM2000-HH
13	850-2010	11	* Washer, Lock – Spring (M10)				Breakers
14	800-0052	4	* Screw, Cap – Hex Head	43	800-0033	4	Screw, Cap – Hex Head
			(3/8-16 x 1-1/2")				(5/16-18 x 2")
15	800-2089	3	* Screw, Cap – Hex Head	44	526-0115	4	Washer, Flat (5/16")
			(M10 x 40mm)	45	850-0045	4	Washer, Lock – Spring
16	098-5854-06	1	* Label, Marker – Marked "L"				(5/16")
17	098-5854-10	1	* Label, Marker – Marked "0"	46	856-0010	1	Washer, Lock – EIT (3/8")
18	091-0002	1	* Strip, Copper (Quantity Used				The following four
			As Required)				hardware items are used
19	800-0050	1	Screw, Cap – Hex Head				to fasten the load leads to
			(3/8-16 x 1")				the generator and neutral
20	850-0050	1	Washer, Lock – Spring (3/8")				bar. Quantity used as
21	526-0029	2	Washer, Flat (3/8")				required.
22	332-2001	1	Lug, Solderless	47	800-0094	1	Screw, Cap – Hex Head
23	870-0494	26	Nut, Self-Retaining – Floating				(1/2-13 x 2")
			(1/4-20)	48	862-0005	1	Nut, Hex (1/2-13)
24	319-2398	2	Brace, Cover (Vertical)	49	850-0060	1	Washer, Lock – Spring (1/2")
25	821-0018	5	Screw, Self-Locking – Hex	50	526-0219	1	Washer, Flat (1/2")
			Washer Head (1/4-20 x 5/8")				
26	821-0011	5	Screw, Self-Locking – Hex				
			Washer Head (1/4-20 x 7/8")				

* – Parts Included In 300-4480-01 Neutral Bar Assembly

**Circuit Breaker
UL Listed
Model HC6 Generators
DFED Spec A Through B, DFFB Begin Spec K**



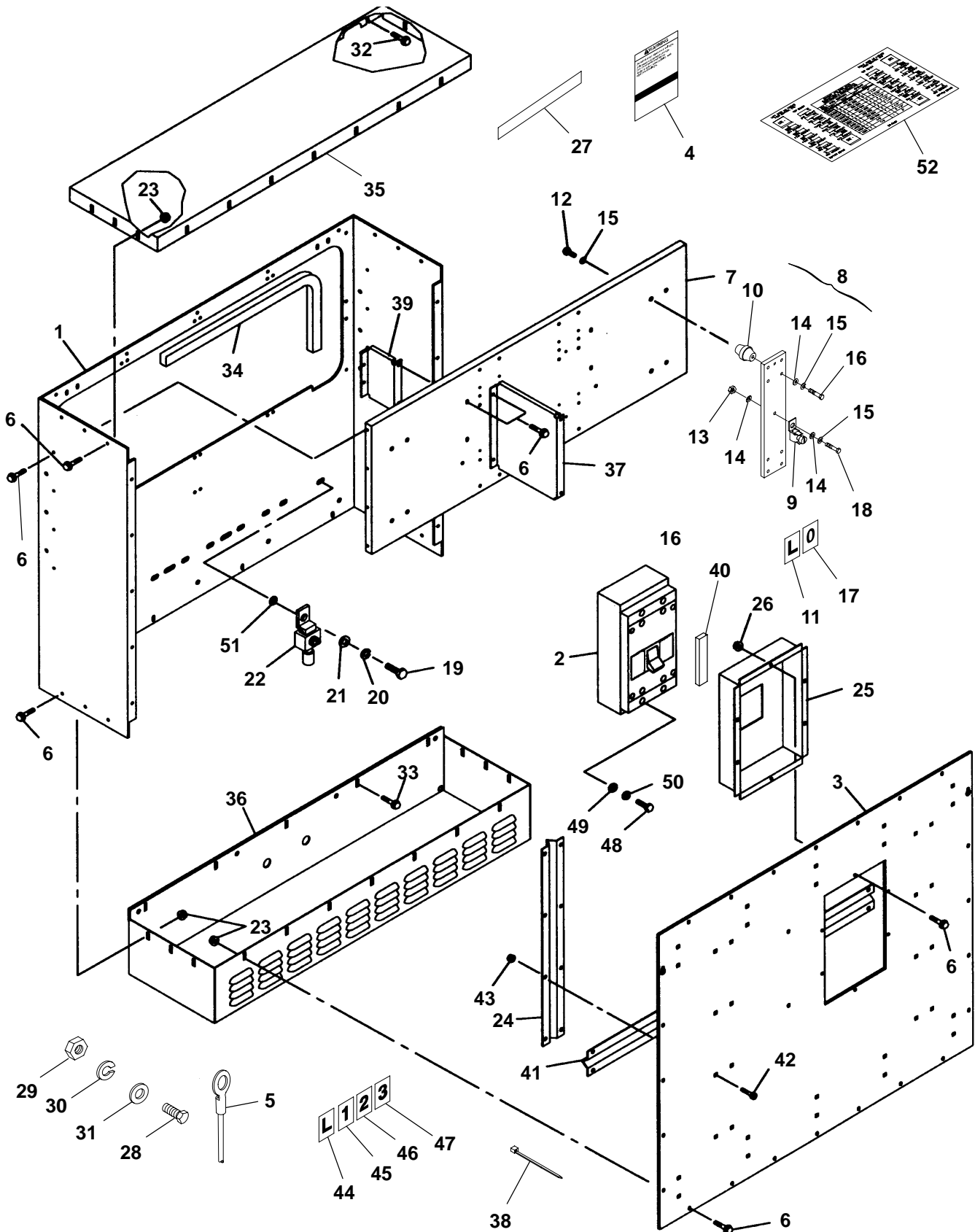
**Circuit Breaker
UL Listed
Model HC6 Generators
DFED Spec A Through B, DFFB Begin Spec K**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2337	1	Box, Circuit Breaker				With Ground Fault and Adjustable Instantaneous Pickup (G Suffix)
2			Breaker, Circuit – With Interchangeable Trip (Includes Lugs and Mounting Screws) (CB21) Three Pole Circuit Breakers				
			Standard	320-1660-34	1		800 Amp
	320-1460-09	1	• 400 Amp	320-1660-35	1	#	1000 Amp
	320-1460-10	1	• 450 Amp	320-1660-36	1	#	1200 Amp
	320-1460-11	1	• 500 Amp				With Ground Fault and Fixed Instantaneous Pickup (NG Suffix)
	320-1460-12	1	• 600 Amp	320-1660-34	1	#	800 Amp
	320-1461-07	1	# 700 Amp	320-1660-35	1	#	1000 Amp
	320-1461-08	1	# 800 Amp	320-1660-36	1	#	1200 Amp
	320-1461-09	1	# 1000 Amp				With Ground Fault, Fixed Instantaneous Pickup, and 24 Volt Shunt Trip (NG Suffix)
	320-1461-10	1	# 1200 Amp				
			With Bell Alarm				
	320-1656-04	1	# 1200 Amp				
			With Auxiliary Contacts	320-1818-36	1	#	1200 Amp
	320-1464-09	1	• 400 Amp	3 319-1964	1		Cover, Circuit Breaker
	320-1464-10	1	• 450 Amp	4 098-2304	1		Label, Warning
	320-1464-11	1	• 500 Amp	5			Lead – Circuit Breaker (Quantity Used As Required) (Without Markings) (#1/0 Wire, 39")
	320-1464-12	1	• 600 Amp				1/2" Ring Terminal End to 1" Stripped End
	320-1465-07	1	# 700 Amp	226-4406-03	1		1/2" Ring Terminal End to 1/2" Ring Terminal End
	320-1465-08	1	# 800 Amp				
	320-1465-09	1	# 1000 Amp				
	320-1465-10	1	# 1200 Amp	226-4406-04	1		
			With 24 Volt Shunt Trip				
	320-1472-09	1	• 400 Amp				
	320-1472-10	1	• 450 Amp	6 821-0010	58		Screw, Self-Locking – Hex Washer Head (1/4–20 x 1/2")
	320-1472-11	1	• 500 Amp				
	320-1472-12	1	• 600 Amp	7 319-1963	1		Bracket, Mounting – Circuit Breaker
	320-1473-07	1	# 700 Amp	8 300-4318-01	1		Bar Assembly, Neutral (Includes Neutral Bars and Parts Marked *)
	320-1473-08	1	# 800 Amp				
	320-1473-09	1	# 1000 Amp	9 332-2001	3		* Lug, Solderless
	320-1473-10	1	# 1200 Amp	10 332-2744-07	2		* Standoff, Insulator
			With Auxiliary Contacts and 24 Volt Shunt Trip	11 098-5854-06	1		* Label, Marker – Marked "L"
	320-1492-09	1	• 400 Amp	12 800-0048	2		* Screw, Cap – Hex Head (3/8–16 x 3/4")
	320-1492-10	1	• 450 Amp				
	320-1492-11	1	• 500 Amp	13 862-0003	3		* Nut, Hex (3/8")
	320-1492-12	1	• 600 Amp	14 526-0029	8		* Washer, Flat (3/8")
	320-1493-07	1	# 700 Amp	15 850-0050	7		* Washer, Lock – Spring (3/8")
	320-1493-08	1	# 800 Amp	16 800-0051	2		* Screw, Cap – Hex Head (3/8–16 x 1–1/4")
	320-1493-09	1	# 1000 Amp				
	320-1493-10	1	# 1200 Amp	17 098-5854-10	1		* Label, Marker – Marked "0"
	320-1822-01	1	+ 700 Amp	18 800-0052	3		* Screw, Cap – Hex Head (3/8–16 x 1–1/2")
	320-1822-02	1	+ 800 Amp				
	320-1822-03	1	+ 1000 Amp				
	320-1822-04	1	+ 1200 Amp				
			Solid State Microversatrip				
	320-1660-16	1	# 800 Amp				
	320-1660-17	1	# 1000 Amp				
	320-1660-18	1	# 1200 Amp				
			With Fixed Instantaneous Pickup (N Suffix)				
	320-1660-25	1	# 800 Amp				
	320-1660-26	1	# 1000 Amp				
	320-1660-27	1	# 1200 Amp				

* Parts Included in 300-4318-01 Neutral Bar Assembly
+ Circuit Breakers that do not use a Circuit Breaker Cup
• Circuit Breakers that use Circuit Breaker Cup 319-2431-21
Circuit Breakers that use Circuit Breaker Cup 319-2431-18

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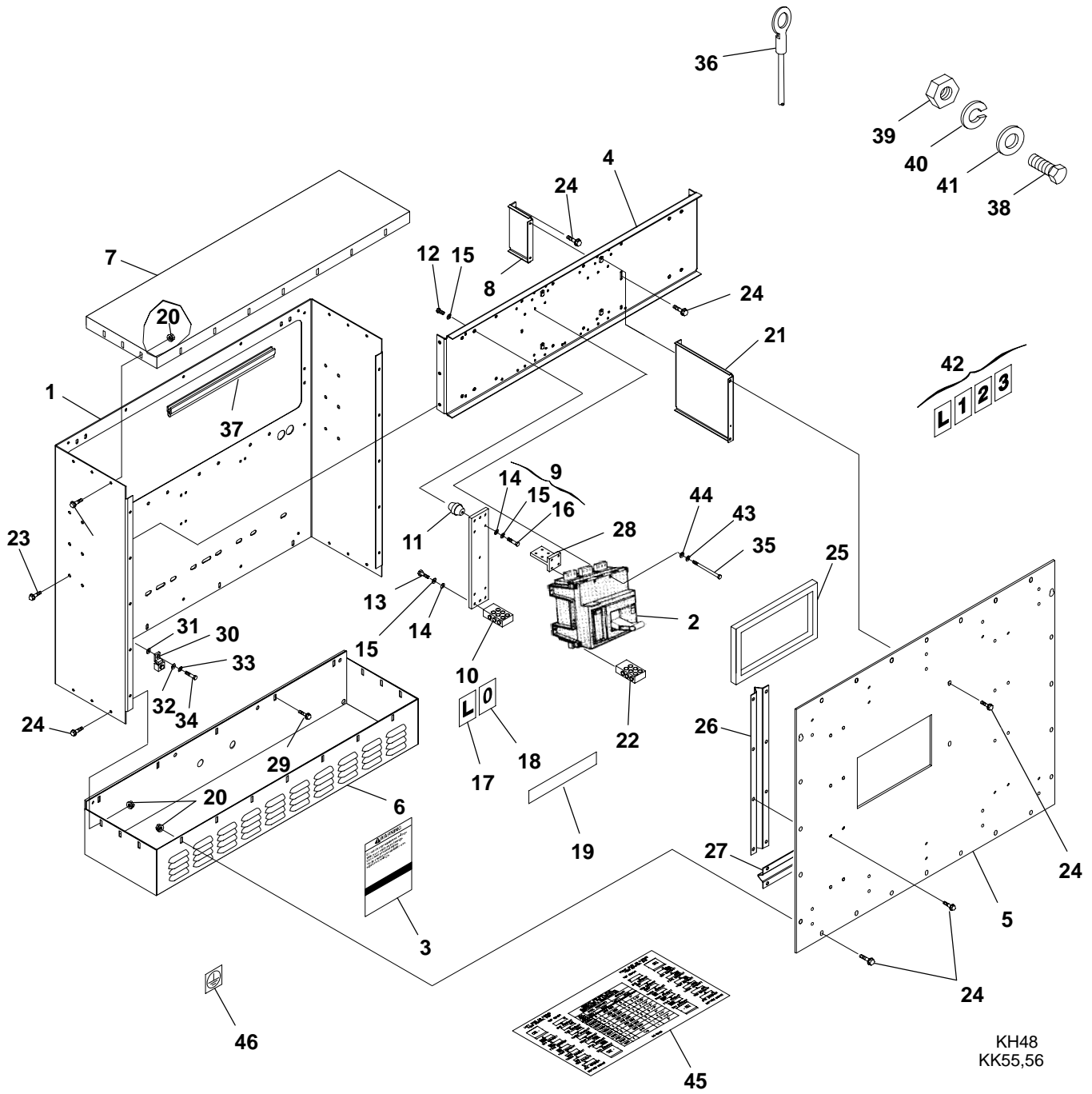
**Circuit Breaker
UL Listed
Model HC6 Generators
DFED Spec A Through B, DFFB Begin Spec K**



**Circuit Breaker
UL Listed
Model HC6 Generators
DFED Spec A Through B, DFFB Begin Spec K**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
19	800-0050	1	Screw, Cap – Hex Head (3/8–16 x 1")	38	332-1389	A/R	Tie, Cable
20	850-0050	1	Washer, Lock – Spring (3/8")	39	319-2316-03	1	Brace, Mounting Bracket – Circuit Breaker
21	526-0029	4	Washer, Flat (3/8")	40	895-0182	–	Stripping, Weather – Bulk (Order By The Foot – 1 Foot Required)
22	332-2001	1	Lug, Solderless	41	319-2399	2	Brace, Cover (Horizontal)
23	870-0494	26	Nut, Self-Retaining – Floating (1/4–20)	42	816-0098	36	Bolt, Carriage (5/16–18 x 5/8")
24	319-2398	2	Brace, Cover (Vertical)	43	870-0257	36	Nut, Locking (5/16–18)
25			Cup, Circuit Breaker – Opening Recessed 2–7/8"	44	098-5854-06	3	Label, Marker (10 Characters Per Card) Marked "L"
	319-2431-21	1	Used with 400, 450, 500, and 600 Amp Circuit Breakers	45	098-5854-07	1	Label, Marker (10 Characters Per Card) Marked "1"
	319-2431-18	1	Used With 700, 800, 1000, and 1200 Amp Circuit Breakers	46	098-5854-08	1	Label, Marker (10 Characters Per Card) Marked "2"
26	870-0212	6	Nut, Locking (1/4–20)	47	098-5854-09	1	Label, Marker (10 Characters Per Card) Marked "3"
27	091-0002	1	Strip, Copper (Used for wrapping ends of leads before securing to circuit breakers and neutral bar lug) (Quantity Used As Required)	48			Screw
			The following four hardware items are used to fasten the load leads to the generator and neutral bar. Quantity used as required.		812-0157	4	Machine – Round Head (1/4–20 x 1–3/4") Used with 400, 450, 500, and 600 Amp Circuit Breakers
					800-0031	4	Cap – Hex Head (5/16–18 x 1–1/2") Used With 700, 800, 1000, and 1200 Amp Circuit Breakers
28	800-0094	1	Screw, Cap – Hex Head (1/2–13 x 2")	49			Washer, Flat
29	862-0005	1	Nut, Hex (1/2–13)		526-0108	4	1/4" – Used with 400, 450, 500, and 600 Amp Circuit Breakers
30	850-0060	1	Washer, Lock – Spring (1/2")		526-0115	4	5/16" – Used With 700, 800, 1000, and 1200 Amp Circuit Breakers
31	526-0219	1	Washer, Flat (1/2")	50			Washer, Lock – Spring
32	821-0018	5	Screw, Self-Locking – Hex Washer Head (1/4–20 x 5/8")		850-0040	4	1/4" – Used with 400, 450, 500, and 600 Amp Circuit Breakers
33	821-0011	5	Screw, Self-Locking – Hex Washer Head (1/4–20 x 7/8")		850-0045	4	5/16" – Used With 700, 800, 1000, and 1200 Amp Circuit Breakers
34	508-1109	–	Edging – Bulk (Order By The Foot – 3 Feet Required)				Washer, Lock – EIT (3/8")
35	319-2336	1	Panel, Top	51	856-0010	1	Label, Conduit Information
36	319-2335	1	Panel, Bottom	52	098-6865	1	
37	319-1926-01	1	Brace, Cover				

**Circuit Breaker
UL Listed
Model HC6 Generators
DFED Spec C**

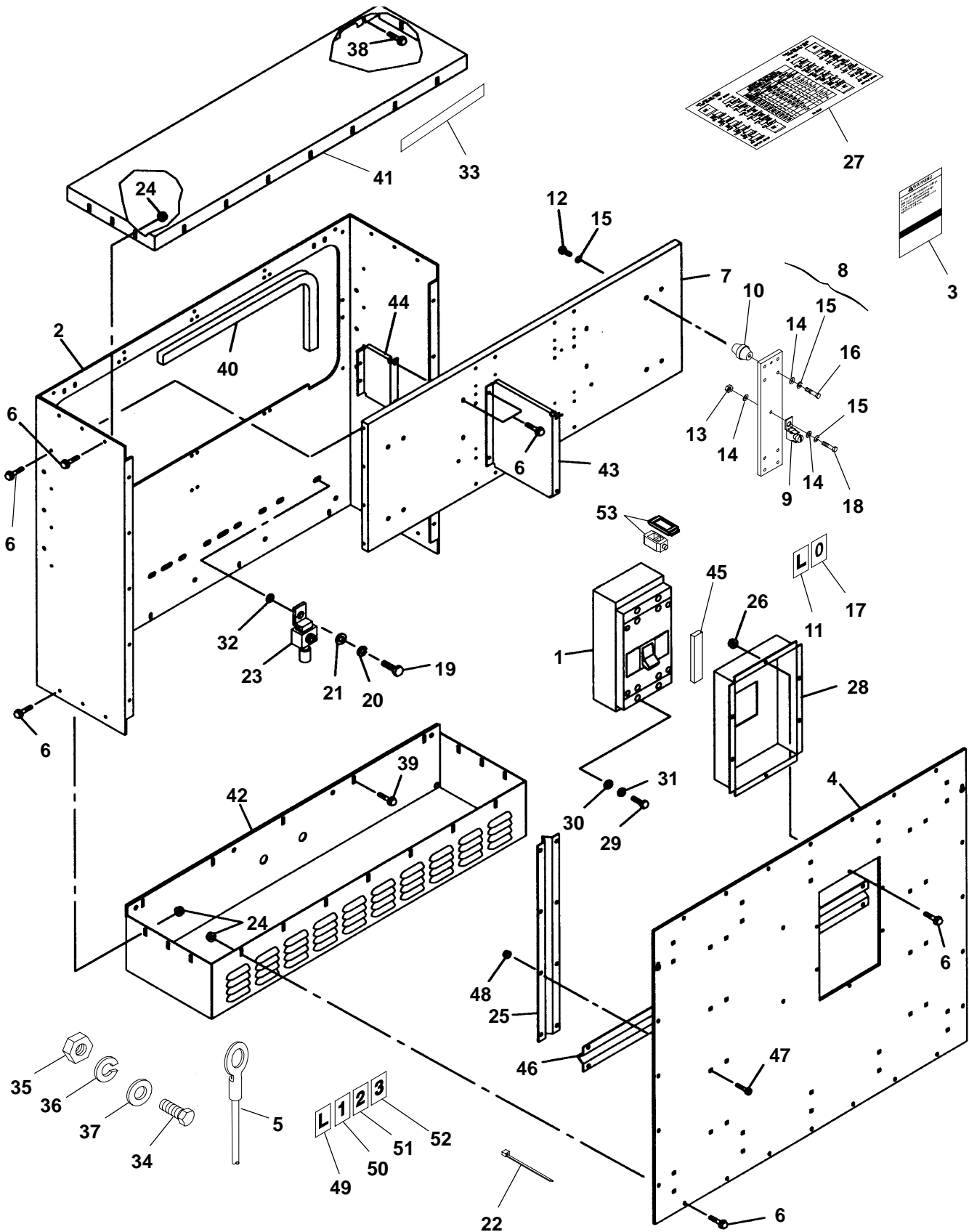


**Circuit Breaker
UL Listed
Model HC6 Generators
DFED Spec C**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3184	1	Box, Circuit Breaker	26	319-3286	2	Brace, Cover (Vertical)
2			Breaker, Circuit – 3 Pole, 100% Rated (Includes Mounting Screws) Frame Size CM2000–HH Circuit Breakers Include Bus Bars (T-bars) (CB21)	27	319-3288	2	Brace, Cover (Horizontal)
	320-1783-02	1	Standard	28	337-2789	1	Bar, Bus (T-Bar) (Includes Mounting Hardware)
	320-1783-10	1	With Auxiliary Contacts, Bell Alarm and 24 Volt Shunt Trip	29	821-2035	5	Screw, Self-Locking – Hex Washer Head (M6 x 25mm)
3	098-2304	1	Label, Warning	30	332-2001	1	Lug, Solderless
4	319-3153	1	Bracket, Mounting	31	856-0010	1	Washer, Lock – EIT (3/8")
5	319-3266-01	1	Cover, Circuit Breaker	32	526-2120	1	Washer, Flat (M10)
6	319-1925	1	Panel – Bottom	33	850-2010	1	Washer, Lock – Spring (M10)
7	319-1961	1	Panel – Top	34	800-2086	1	Screw, Cap – Hex Head (M10 x 25mm)
8	319-3253-02	1	Brace, Mounting – Circuit Breaker	35	800-2063	4	Screw, Cap – Hex Head (M8 x 50mm)
9	300-4480-01	1	Bar Assembly, Neutral (Includes Neutral Bars and Parts Marked *)	36	226-4498-03	1	Lead – Circuit Breaker (Quantity Used As Required) (Without Markings) (#1/0 Wire, 30")
10	332-3303-01	1	* Lug, Solderless	37	508-1109	–	Edging – Bulk (Order By The Foot – 3 Feet Required)
11	332-2744-07	4	* Standoff, Insulator				The following four hardware items are used to fasten the load leads to the generator and neutral bar. Quantity used as required.
12	800-0048	4	* Screw, Cap – Hex Head (3/8–16 x 3/4")	38	800-2116	1	Screw, Cap – Hex Head (M12 x 50mm)
13	800-2089	3	* Screw, Cap – Hex Head (M10 x 40mm)	39	860-2010	1	Nut, Hex (M12)
14	526-2120	7	* Washer, Flat (M10)	40	850-2012	1	Washer, Lock – Spring (M12)
15	850-2010	11	* Washer, Lock – Spring (M10)	41	526-2140	1	Washer, Flat (M12)
16	800-0052	4	* Screw, Cap – Hex Head (3/8–16 x 1-1/2")	42			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
17	098-5854-06	1	* Label, Marker – Marked "L"		098-5854-06	3	Marked "L"
18	098-5854-10	1	* Label, Marker – Marked "0"		098-5854-07	1	Marked "1"
19	091-0002	1	* Strip, Copper (Quantity Used As Required)		098-5854-08	1	Marked "2"
20	870-0504	26	Nut, Self-Retaining (M6)		098-5854-09	1	Marked "3"
21	319-3252-02	1	Brace, Cover	43	850-2008	4	Washer, Lock – Spring (M8)
22	332-3303-01	3	Lug, Solderless	44	526-2100	4	Washer, Flat (M8)
23	821-6003-02	6	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)	45	098-6865	1	Label, Conduit Information
24	821-6002-03	85	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	46	098-6537	1	Label, Ground
25	895-0182	–	Stripping, Weather – Bulk (Order By The Foot – 4 Feet Required)				

* – Parts Included In 300-4480-01 Neutral Bar Assembly

**Circuit Breaker
IEC Conformity
Model HC6 Generators
DFED Spec A, DFFB Begin Spec K**

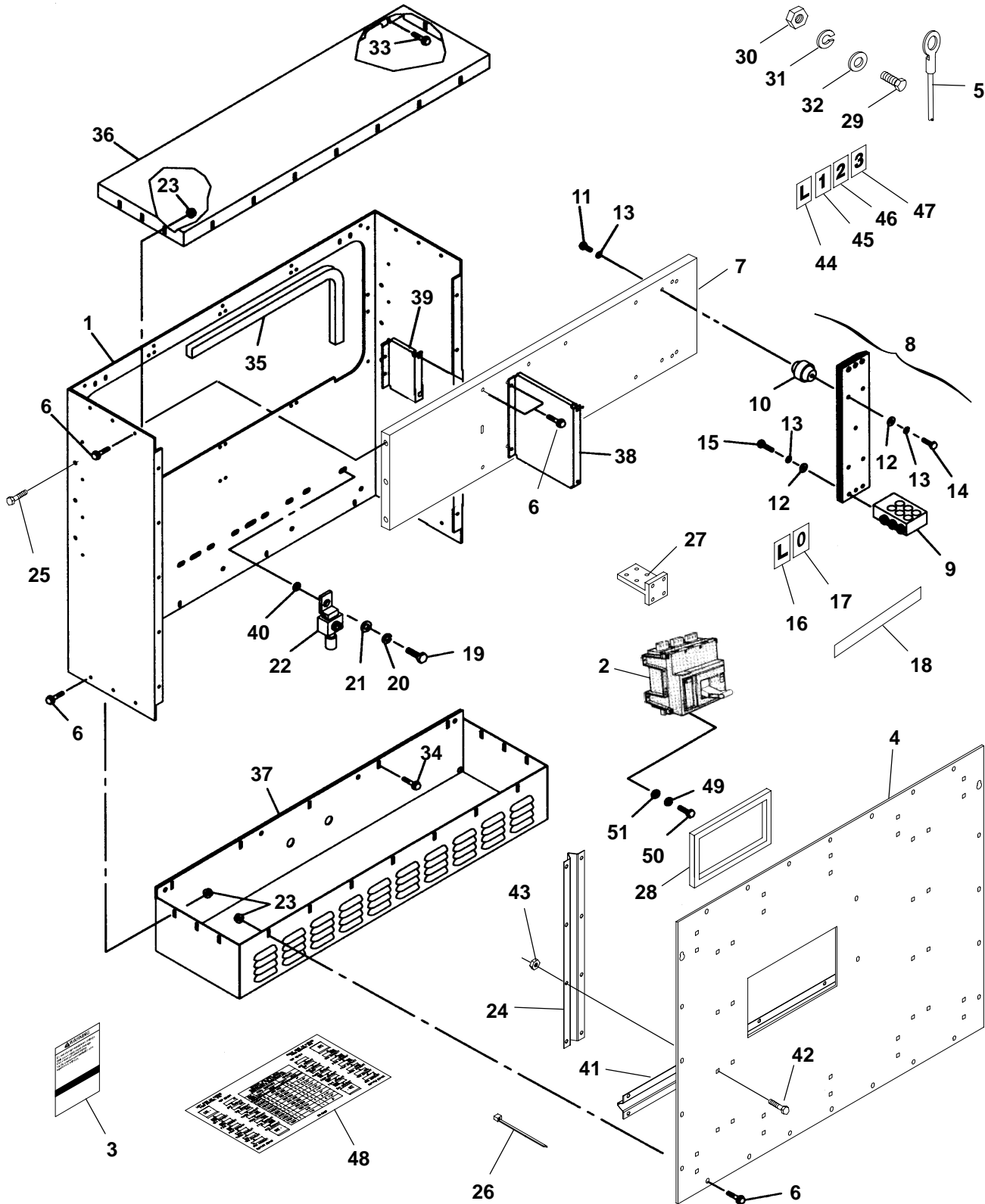


**Circuit Breaker
IEC Conformity
Model HC6 Generators
DFED Spec A, DFFB Begin Spec K**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit (Includes Lugs and Mounting Screws) (CB21)	28			Cup, Circuit Breaker
			Three Pole Breakers	319-2431-19	1		800 Amp Circuit Breaker – Opening Recessed 3–7/8"
	320-1728-02	1	500 Amp	319-2431-20	1		1000 Amp Circuit Breaker – Opening Recessed 2–13/16"
	320-1728-03	1	630 Amp				
	320-1729-03	1	800 Amp	29	800-0033	4	Screw, Cap – Hex Head (5/16–18 x 2")
	320-1730-03	1	1000 Amp	30	526-0115	4	Washer, Flat (5/16")
	320-1730-04	1	1250 Amp	31	850-0045	4	Washer, Lock – Spring (5/16")
			Four Pole Breakers	32	856-0010	1	Washer, Lock – EIT (3/8")
	320-1728-05	1	500 Amp	33	091-0002	1	Strip, Copper (Used for wrapping ends of leads before securing to circuit breakers and neutral bar lug) (Quantity Used As Required)
	320-1728-06	1	630 Amp				
	320-1729-06	1	800 Amp				
	320-1730-07	1	1000 Amp				
	320-1730-08	1	1250 Amp				
2	319-2337	1	Box, Circuit Breaker				The following four hardware items are used to fasten the load leads to the generator and neutral bar. Quantity used as required.
3	098-2304	1	Label, Warning				
4	319-1964	1	Cover, Circuit Breaker				
5	226-4406-04	1	Lead – Circuit Breaker (Quantity Used As Required) (Without Markings) (#1/0 Wire, 39")				
			1/2" Ring Terminal End to 1/2" Ring Terminal End	34	800-0092	1	Screw, Cap – Hex Head (1/2–13 x 1–1/2")
6	821-0010	58	Screw, Self-Locking – Hex Washer Head (1/4–20 x 1/2")	35	862-0016	1	Nut, Hex (1/2–13)
7	319-1963	1	Bracket, Mounting – Circuit Breaker	36	850-0060	1	Washer, Lock – Spring (1/2")
8	300-4318-01	1	Bar Assembly, Neutral – Used on Some 3 Pole Circuit Breakers and Disconnect Switches (Includes Neutral Bars and Parts Marked *)	37	526-0219	1	Washer, Flat (1/2")
				38	821-0018	5	Screw, Self-Locking – Hex Washer Head (1/4–20 x 5/8")
9	332-2001	3	* Lug, Solderless	39	821-0011	5	Screw, Self-Locking – Hex Washer Head (1/4–20 x 7/8")
10	332-2744-07	2	* Standoff, Insulator	40	508-1109	–	Edging – Bulk (Order By The Foot – 3 Feet Required)
11	098-5854-06	1	* Label, Marker – Marked "L"	41	319-2336	1	Panel – Top
12	800-0048	2	* Screw, Cap – Hex Head (3/8–16 x 3/4")	42	319-2335	1	Panel – Bottom
13	862-0003	3	* Nut, Hex (3/8")	43	319-1926-01	1	Brace, Cover
14	526-0029	8	* Washer, Flat (3/8")	44	319-2316-03	1	Brace, Mounting Bracket – Circuit Breaker
15	850-0050	7	* Washer, Lock – Spring (3/8")	45	895-0182	–	Stripping, Weather – Bulk (Order By The Foot – 1 Foot Required)
16	800-0051	2	* Screw, Cap – Hex Head (3/8–16 x 1–1/4")	46	319-2399	2	Brace, Cover (Horizontal)
17	098-5854-10	1	* Label, Marker – Marked "0"	47	816-0098	36	Bolt, Carriage (5/16–18 x 5/8")
18	800-0052	3	* Screw, Cap – Hex Head (3/8–16 x 1–1/2")	48	870-0257	36	Nut, Locking (5/16–18)
19	800-0050	1	Screw, Cap – Hex Head (3/8–16 x 1")	49	098-5854-06	3	Label, Marker (10 Characters Per Card) Marked "L"
20	850-0050	1	Washer, Lock – Spring (3/8")	50	098-5854-07	1	Label, Marker (10 Characters Per Card) Marked "1"
21	526-0029	4	Washer, Flat (3/8")	51	098-5854-08	1	Label, Marker (10 Characters Per Card) Marked "2"
22	332-1389	1	Tie, Cable	52	098-5854-09	1	Label, Marker (10 Characters Per Card) Marked "3"
23	332-2001	1	Lug, Solderless	53			Lug Set (Packaged in Sets – Two Lugs Per Set) (Quantity Used As Required)
24	870-0494	26	Nut, Self-Retaining – Floating (1/4–20)				
25	319-2398	2	Brace, Cover (Vertical)				
26	870-0212	6	Nut, Locking (1/4–20)	320-1755-16	1		800 Amp Circuit Breaker
27	098-6865	1	Label, Conduit Information	320-1755-15	1		1000 Amp Circuit Breaker

* – Parts Included In 300-4318-01 Neutral Bar Assembly

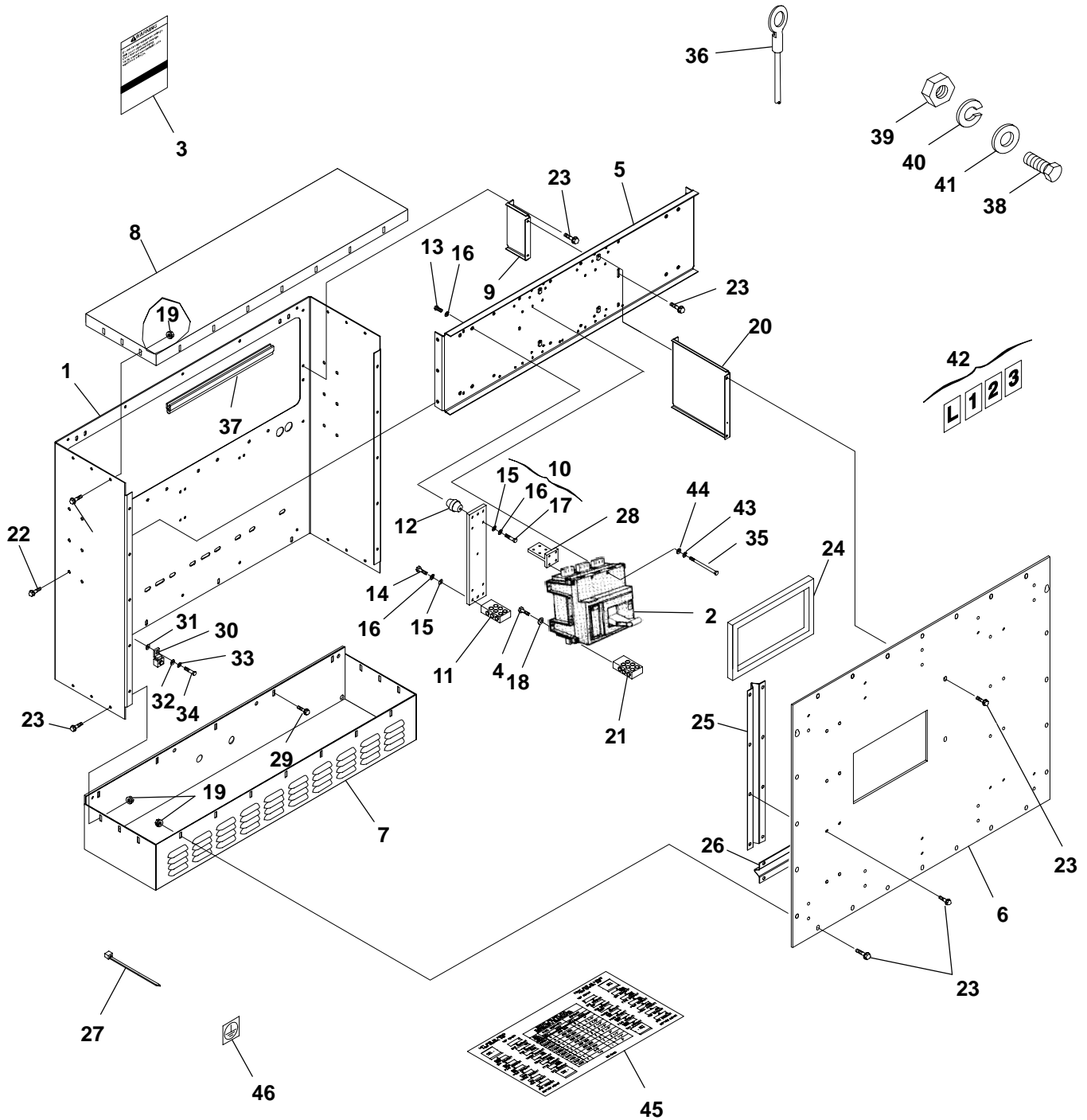
**Circuit Breaker
IEC Conformity
Model HC6 Generators
DFED Spec B**



**Circuit Breaker
IEC Conformity
Model HC6 Generators
DFED Spec B**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1957	1	Box, Circuit Breaker	27	337-2789	4	Bar, Bus (T-Bar) (Includes Mounting Hardware)
2	320-1699	1	Breaker, Circuit – Three Pole (Includes Mounting Screws) (CB21) Frame Size CM1600	28	895-0182	–	Stripping, Weather – Bulk (Order By The Foot – 4 Feet Required)
3	098-2304	1	Label, Warning	The following four hardware items are used to fasten the load leads to the generator. Quantity used as required.			
4	319-1959-01	1	Cover, Circuit Breaker				
5	226-4498-03	1	Lead – Circuit Breaker (Quantity Used As Required) 30" (Without Markings) (#1/0 Wire)				
6	821-0010	44	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	29	800-0094	1	Screw, Cap – Hex Head (1/2-13 x 2")
7	319-1962	1	Bracket, Mounting – Circuit Breaker	30	862-0005	1	Nut, Hex (1/2-13)
8	300-4480-01	1	Bar Assembly, Neutral (Includes Neutral Bars and Parts Marked *) (Used With 3 Pole Circuit Breakers)	31	850-0060	1	Washer, Lock – Spring (1/2")
9	332-3303-01	1	* Lug, Solderless	32	526-0219	1	Washer, Flat (1/2")
10	332-2744-07	4	* Standoff, Insulator	33	821-0018	5	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")
11	800-0048	4	* Screw, Cap – Hex Head (3/8-16 x 3/4")	34	821-0011	5	Screw, Self-Locking – Hex Washer Head (1/4-20 x 7/8")
12	526-2120	7	* Washer, Flat (M10)	35	508-1109	–	Edging – Bulk (Order By The Foot – 3 Feet Required)
13	850-2010	11	* Washer, Lock – Spring (M10)	36	319-1961	1	Panel – Top
14	800-0052	4	* Screw, Cap – Hex Head (3/8-16 x 1-1/2")	37	319-1925	1	Panel – Bottom
15	800-2089	3	* Screw, Cap – Hex Head (M10 x 40mm)	38	319-1926-02	1	Brace, Cover
16	098-5854-06	1	* Label, Marker – Marked "L"	39	319-2316-02	1	Brace, Mounting – Circuit Breaker Bracket
17	098-5854-10	1	* Label, Marker – Marked "0"	40	856-0010	1	Washer, Lock – EIT (3/8")
18	091-0002	1	* Strip, Copper (Quantity Used As Required)	41	319-2399	2	Brace, Cover (Horizontal)
19	800-0050	1	Screw, Cap – Hex Head (3/8-16 x 1")	42	816-0098	36	Bolt, Carriage (5/16-18 x 5/8")
20	850-0050	1	Washer, Lock – Spring (3/8")	43	870-0257	36	Nut, Locking (5/16-18)
21	526-0029	2	Washer, Flat (3/8")	44	098-5854-06	3	Label, Marker (10 Characters Per Card) Marked "L"
22	332-2001	1	Lug, Solderless	45	098-5854-07	1	Label, Marker (10 Characters Per Card) Marked "1"
23	870-0494	26	Nut, Self-Retaining – Floating (1/4-20)	46	098-5854-08	1	Label, Marker (10 Characters Per Card) Marked "2"
24	319-2398	2	Brace, Cover (Vertical)	47	098-5854-09	1	Label, Marker (10 Characters Per Card) Marked "3"
25	821-0030	6	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")	48	098-6865	1	Label, Conduit Information
26	332-1389	A/R	Tie, Wire	49	850-0045	4	Washer, Lock – Spring (5/16")
				50	800-0033	4	Screw, Cap – Hex Head (5/16-18 x 2")
				51	526-0115	4	Washer, Flat (5/16")

**Circuit Breaker
IEC Conformity
Model HC6 Generators
DFED Spec C**

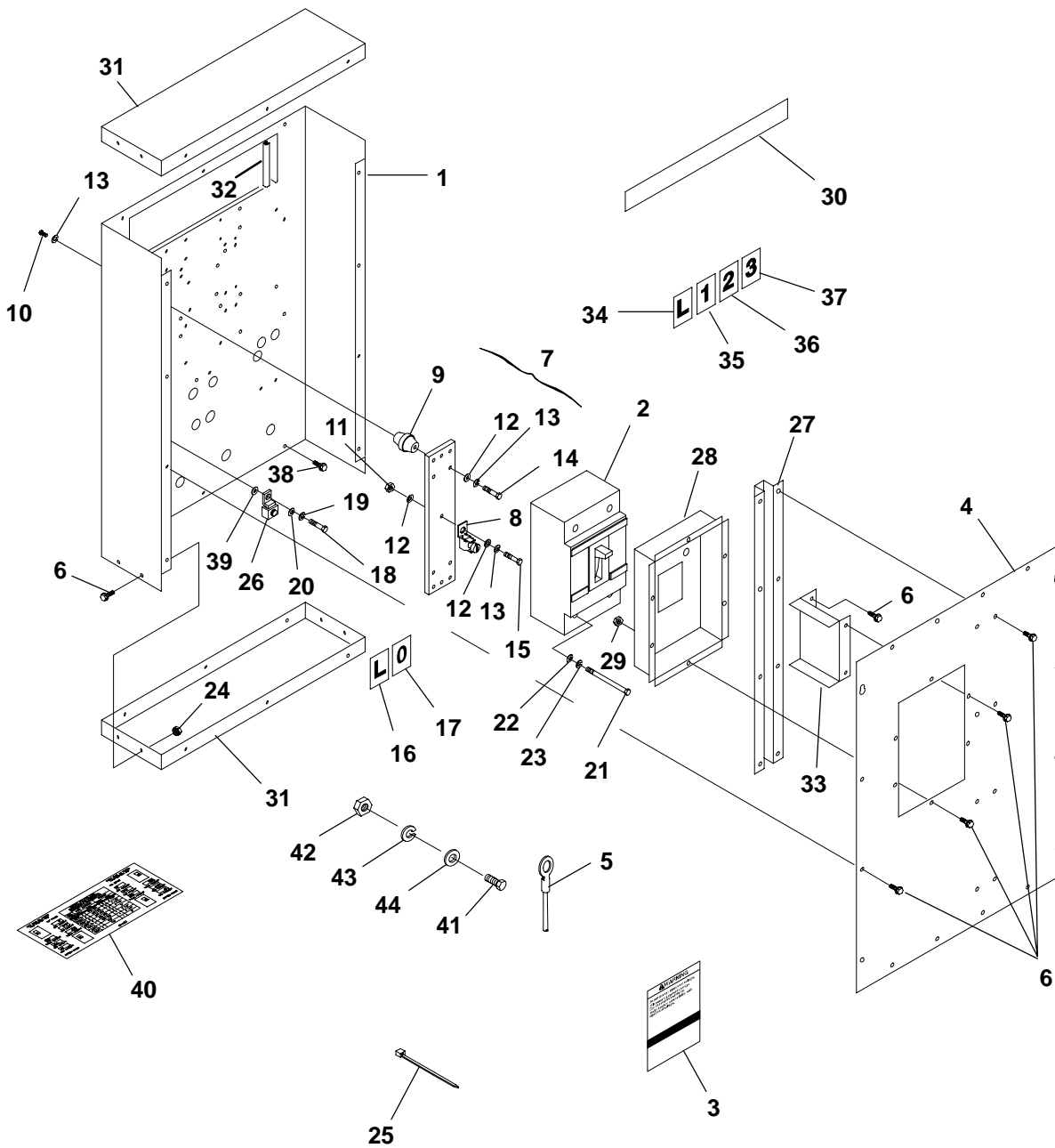


**Circuit Breaker
IEC Conformity
Model HC6 Generators
DFED Spec C**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3184	1	Box, Circuit Breaker	26	319-3288	2	Brace, Cover (Horizontal)
2	320-1699-02	1	Breaker, Circuit – Standard (Includes Mounting Screws) (CB21)	27	332-1389	A/R	Tie, Wire
3	098-2304	1	Label, Warning	28	337-2789	1	Bar, Bus (T-Bar) (Includes Mounting Hardware)
4	800-2089	9	Screw, Cap – Hex Head (M10 x 40mm)	29	821-2035	5	Screw, Self-Locking – Hex Washer Head (M6 x 25mm)
5	319-3153	1	Bracket, Mounting	30	332-2001	1	Lug, Solderless
6	319-3266-01	1	Cover, Circuit Breaker	31	856-0010	1	Washer, Lock – EIT (3/8")
7	319-1925	1	Panel – Bottom	32	526-2120	1	Washer, Flat (M10)
8	319-1961	1	Panel – Top	33	850-2010	1	Washer, Lock – Spring (M10)
9	319-3253-02	1	Brace, Mounting – Circuit Breaker	34	800-2086	1	Screw, Cap – Hex Head (M10 x 25mm)
10	300-4480-01	1	Bar Assembly, Neutral (Includes Neutral Bars, Labels and Parts Marked *) (Used With 3 Pole Circuit Breakers)	35	800-2063	4	Screw, Cap – Hex Head (M8 x 50mm)
11	332-3303-01	1	* Lug, Solderless	36	226-4498-03	1	Lead – Circuit Breaker (Quantity Used As Required) 30" (Without Markings) (#1/0 Wire)
12	332-2744-07	4	* Standoff, Insulator	37	508-1109	–	Edging – Bulk (Order By The Foot – 3 Feet Required)
13	800-0048	4	* Screw, Cap – Hex Head (3/8-16 x 3/4")				The following four hardware items are used to fasten the load leads to the generator. Quantity used as required.
14	800-2089	3	* Screw, Cap – Hex Head (M10 x 40mm)				Screw, Cap – Hex Head (M12 x 50mm)
15	526-2120	7	* Washer, Flat (M10)	38	800-2116	1	Nut, Hex (M12)
16	850-2010	11	* Washer, Lock – Spring (M10)	39	860-2010	1	Washer, Lock – Spring (M12)
17	800-0052	4	* Screw, Cap – Hex Head (3/8-16 x 1-1/2")	40	850-2012	1	Washer, Flat (M12)
18	850-2010	9	Washer, Lock – Spring (M10)	41	526-2140	1	Label, Marker (10 Characters Per Card) (Quantity Used As Required)
19	870-0504	26	Nut, Self-Retaining (M6)	42			Marked "L"
20	319-3252-02	1	Brace, Cover		098-5854-06	3	Marked "1"
21	332-3303-01	3	Lug, Solderless		098-5854-07	1	Marked "2"
22	821-6003-02	6	Sets With 3 Pole Circuit Breakers		098-5854-08	1	Marked "3"
23			Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	43	850-2008	4	Washer, Lock – Spring (M8)
	821-6002-03	89	Sets With 3 Pole Circuit Breakers	44	526-2100	4	Washer, Flat (M8)
	821-6002-03	81	Sets With 4 Pole Circuit Breakers	45	098-6865	1	Label, Conduit Information
24	895-0182	–	Stripping, Weather – Bulk (Order By The Foot – 4 Feet Required)	46	098-6537	1	Label, Ground
25	319-3286	2	Brace, Cover (Vertical)				

* – Parts Included In 300-4480-01 Neutral Bar Assembly

**Disconnect Switch
Molded Case
UL Listed
Model HC5 Generators
DFED Spec A and B**



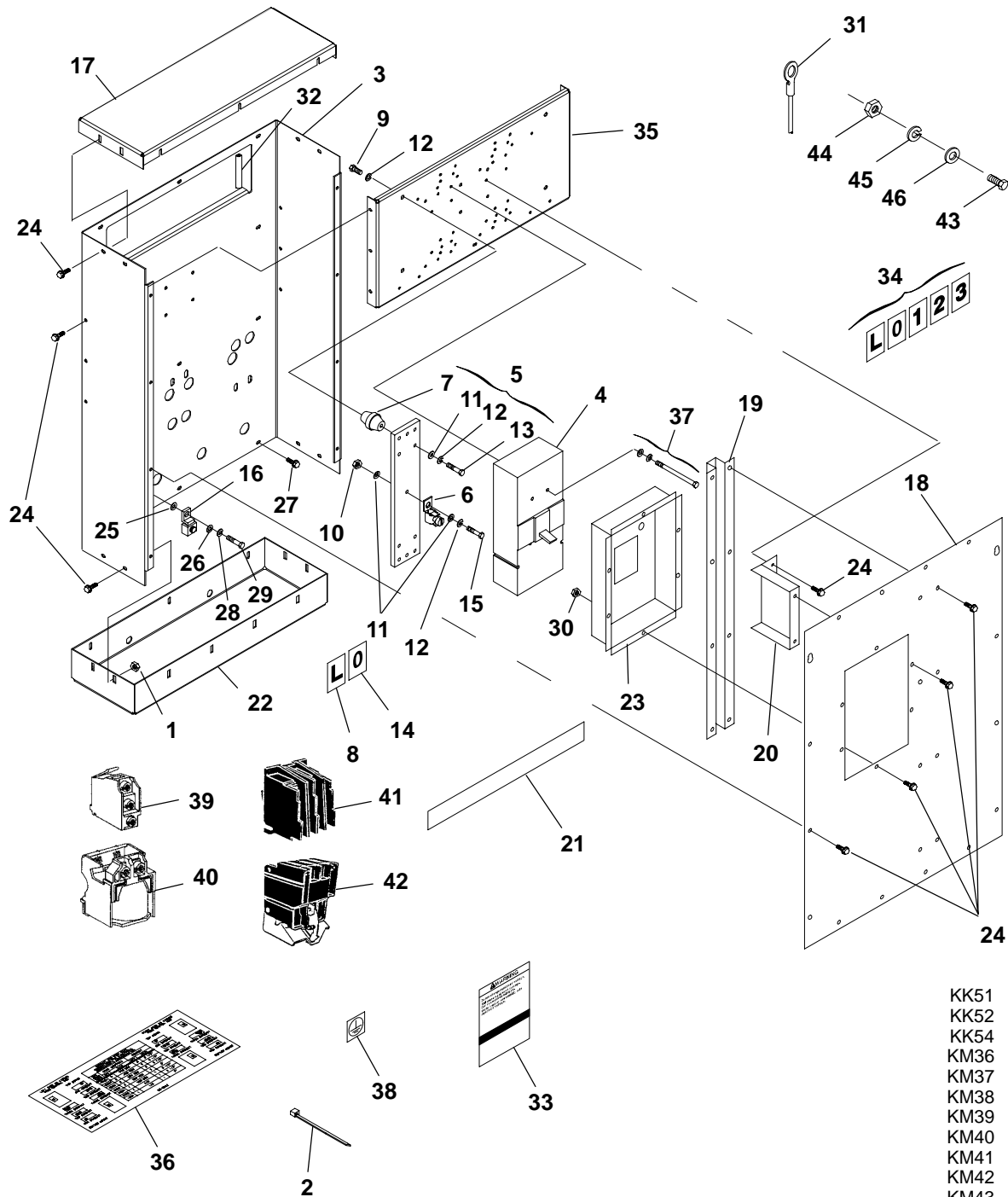
KK51
KK54

**Disconnect Switch
Molded Case
UL Listed
Model HC5 Generators
DFED Spec A and B**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2432	1	Box, Disconnect Switch	23			Washer, Lock – Spring
2			Switch, Disconnect – 3 Pole (Includes Line and Load Lugs) (CB21)	850-0040	4		1/4" – 600 Amp Switches
	320-1906-18	1	600 Amp	850-0045	4		5/16" – 800 to 1200 Amp Switches
	320-1906-19	1	800 Amp	24	870-0494	16	Nut, Self-Retaining (1/4-20)
	320-1906-20	1	1000 Amp	25	332-1389	A/R	Tie, Cable
	320-1906-21	1	1200 Amp	26	332-2001	1	Lug, Solderless
3	098-2304	1	Label, Warning	27	319-1918	1	Brace, Cover
4	319-1917	1	Cover	28			Cup, Disconnect Switch
5			Lead, Disconnect Switch (Quantity Used As Required) 39" (Without Markings) (#1/0 Wire)		319-2431-13	1	Opening Recessed 4-7/8" (600 Amp Switches)
	226-4406-03	1	1/2" Ring Terminal End to 1" Stripped End		319-2431-14	1	Opening Recessed 3-1/2" (800 to 1200 Amp Switches)
	226-4406-04	1	1/2" Ring Terminal End to 1/2" Ring Terminal End	29	870-0212	6	Nut, Locking (1/4-20)
6	821-0010	40	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	30	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to disconnect switches) (Quantity Used As Required)
7	300-4318-01	1	Bar Assembly, Neutral (Includes Parts Marked *)	31	319-1915	2	Panel
8	332-2001	3	* Lug, Solderless	32	508-1092	–	Edging – Bulk (Order By The Foot – 3 Feet Required)
9	332-2744-07	2	* Standoff, Insulator	33	319-1927	1	Brace, Cover
10	800-0048	2	* Screw, Cap – Hex Head (3/8-16 x 3/4")	34	098-5854-06	3	Label, Marker (10 Characters Per Card) Marked "L"
11	862-0003	3	* Nut, Hex (3/8")	35	098-5854-07	1	Label, Marker (10 Characters Per Card) Marked "1"
12	526-0029	8	* Washer, Flat (3/8")	36	098-5854-08	1	Label, Marker (10 Characters Per Card) Marked "2"
13	850-0050	7	* Washer, Lock – Spring (3/8")	37	098-5854-09	1	Label, Marker (10 Characters Per Card) Marked "3"
14	800-0051	2	* Screw, Cap – Hex Head (3/8-16 x 1-1/4")	38	821-0018	5	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")
15	800-0052	3	* Screw, Cap – Hex Head (3/8-16 x 1-1/2")	39	856-0010	1	Washer, Lock – EIT (3/8")
16	098-5854-06	1	* Label, Marker – Marked "L"	40	098-6832	1	Label, Conduit Information
17	098-5854-10	1	* Label, Marker – Marked "0"				The following four hardware items are used to fasten the load leads to the generator and neutral bar. Quantity used as required.
18	800-0050	1	Screw, Cap – Hex Head (3/8-16 x 1")	41	800-0094	1	Screw, Cap – Hex Head (1/2-13 x 2")
19	850-0050	1	Washer, Lock – Spring (3/8")	42	862-0005	1	Nut, Hex (1/2-13)
20	526-0029	1	Washer, Flat (3/8")	43	850-0060	1	Washer, Lock – Spring (1/2")
21			Screw	44	526-0219	1	Washer, Flat (1/2")
	812-0157	4	Machine – Round Head (1/4-20 x 1-3/4") 600 Amp Switches				
	800-0031	4	Cap – Hex Head (5/16-18 x 1-1/2") 800 to 1200 Amp Switches				
22			Washer, Flat				
	526-0108	4	1/4" – 600 Amp Switches				
	526-0115	4	5/16" – 800 to 1200 Amp Switches				

* – Parts Included In 300-4318-01 Neutral Bar Assembly

Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
Model HC5 Generators
DFEB Begin Spec N, DFEC Begin Spec F, DFED Begin Spec D



KK51	KM49
KK52	KM50
KK54	KM51
KM36	KM60
KM37	KM61
KM38	KM62
KM39	KM63
KM40	KM64
KM41	KM65
KM42	KM66
KM43	KM67
KM44	KM68
KM45	KM69
KM46	KM70
KM47	KM72
KM48	KM74

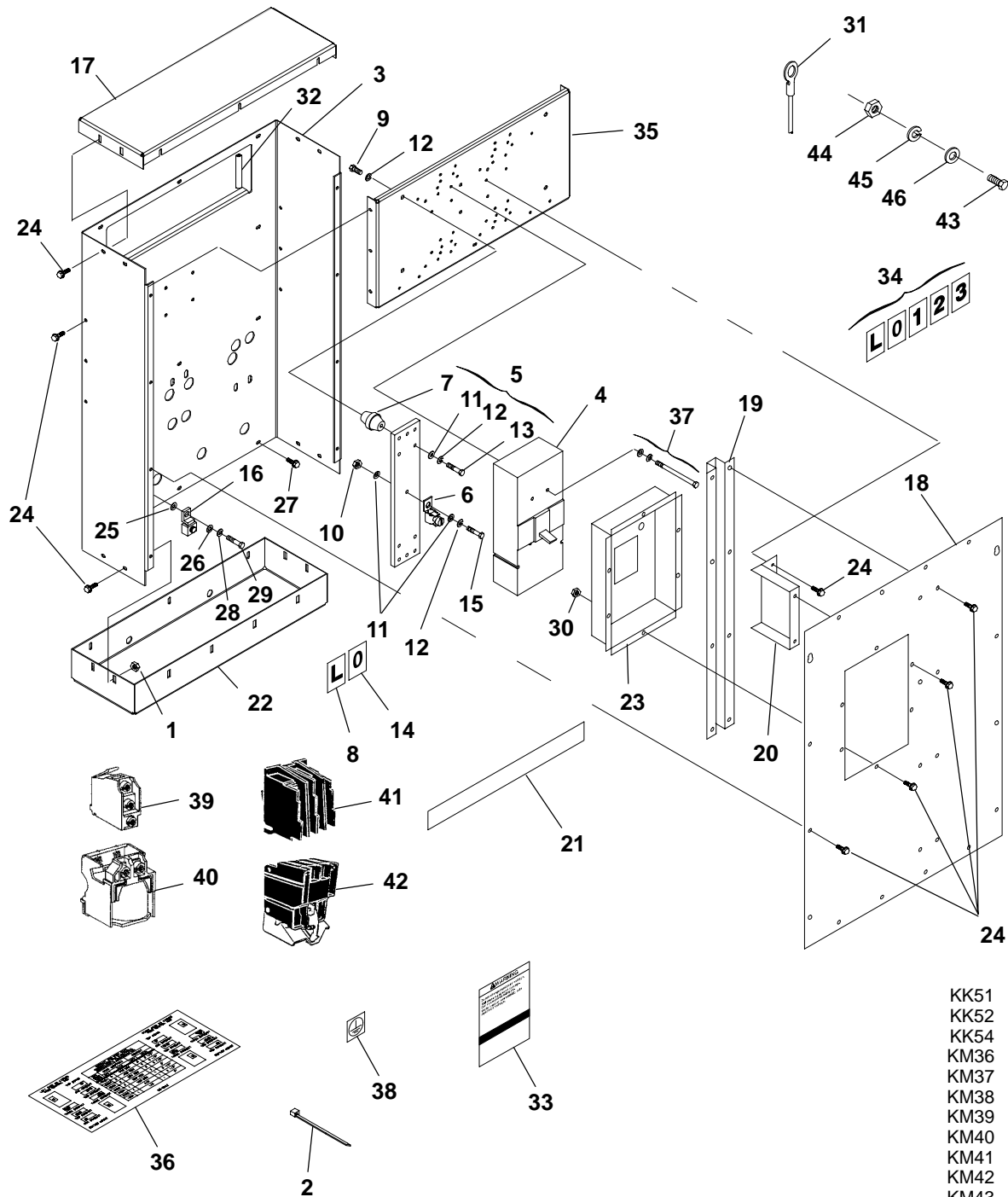
Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
Model HC5 Generators
DFEB Begin Spec N, DFEC Begin Spec F, DFED Begin Spec D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0504	16	Nut, Self-Retaining (M6)	5	300-4318-01	1	Bar Assembly, Neutral –
2	332-1389	A/R	Tie, Wire				Used on Some 3 Pole
3	319-3169	1	Box, Circuit Breaker				Circuit Breakers and
4			The following listed Circuit				Disconnect Switches
			Breakers and Disconnect				(Includes Neutral Bars and
			Switches include lugs and				Parts Marked *)
			mounting hardware.	6	332-2001	3	* Lug, Solderless
			Circuit Breakers	7	332-2744-07	2	* Standoff, Insulator
			3 Pole (UL, IEC)	8	098-5854-06	1	* Label, Marker – Marked “L”
	320-1959-07	1	100 Amp	9	800-0048	2	* Screw, Cap – Hex Head
	320-1959-05	1	150 Amp				(3/8-16 x 3/4”)
	320-1959-04	1	175 Amp	10	862-0003	3	* Nut, Hex (3/8”)
	320-1959-03	1	200 Amp	11	526-0029	8	* Washer, Flat (3/8”)
	320-1959-02	1	225 Amp	12	850-0050	7	* Washer, Lock – Spring (3/8”)
	320-1959-01	1	250 Amp	13	800-0051	2	* Screw, Cap – Hex Head
	320-1963-06	1	300 Amp				(3/8-16 x 1-1/4”)
	320-1960-05	1	350 Amp	14	098-5854-10	1	* Label, Marker – Marked “0”
			400 Amp	15	800-0052	3	* Screw, Cap – Hex Head
							(3/8-16 x 1-1/2”)
	320-1963-04	1	DFEC Spec F	16	332-2001	1	Lug, Solderless
	320-1960-04	1	DFEB Begin Spec P	17	319-1915	1	Panel – Top
			DFEC Begin Spec H	18			Cover
			DFED Begin Spec E		319-1917	1	All Except 4 Pole Switches
	320-1960-03	1	450 Amp				Mounted on the Right Side
			500 Amp				When Facing Control
	320-1963-02	1	DFEB Spec M		319-2463	1	4 Pole Switches Mounted on
	320-1960-02	1	DFEB Begin Spec P				the Right Side When
			DFEC Begin Spec H				Facing Control
			DFED Begin Spec E				
			600 Amp	19	319-3284	1	Brace, Cover
	320-1963-01	1	DFEB Spec M	20	319-3333	1	Brace, Cover
			DFEC Spec F	21	091-0002	1	Strip, Copper (Used for
	320-1960-01	1	DFEB Begin Spec N				wrapping end of leads before
			DFEC Begin Spec G				securing to circuit breakers
			DFED Begin Spec D				and disconnect switches)
							(Quantity Used As Required)
	320-1964-05	1	700 Amp	22	319-3183	1	Panel – Bottom
	320-1964-04	1	800 Amp	23			Cup
	320-1964-03	1	900 Amp		319-2431-26	1	2-7/8” x 4” Opening
	320-1964-02	1	1000 Amp		319-2431-27	1	1-7/32” x 3” Opening
	320-1964-01	1	1200 Amp		319-2431-29	1	1-31/32” x 3-5/16” Opening
			4 Pole (IEC)		319-2431-30	1	3-5/16” x 4-3/8” Opening
	320-1964-08	1	800 Amp		319-2431-31	1	2-1/2” x 4-9/16” Opening
	320-1964-07	1	1000 Amp	24	821-6002-03	53	Screw, Self-Locking – Hex
	320-1964-06	1	1250 Amp				Washer Head (M6 x 16mm)
			Disconnect Switches	25	856-0010	1	Washer, Lock – EIT (3/8”)
			3 Pole (UL, IEC)	26	526-2120	1	Washer, Flat (M10)
			400 Amp	27	821-2034	2	Screw, Self-Locking – Hex
	320-1990-02	1	DFEB Begin Spec N				Washer Head (M6 x 20mm)
			DFEC Begin Spec G	28	850-2010	1	Washer, Lock – Spring (M10)
			DFED Begin Spec D	29	800-2088	1	Screw, Cap – Hex Head
			600 Amp				(M10 x 35mm)
	320-1991-01	1	DFEB Spec M	30	870-2054	4	Nut, Hex – Flange (M6)
			DFEC Spec F				
			DFED Spec C				
	320-1990-01	1	DFEB Begin Spec P				
			DFEC Begin Spec H				
			DFED Begin Spec E				
	320-1992-02	1	800 Amp				
	320-1992-01	1	1200 Amp				

* – Parts Included In 300-4318-01 Neutral Bar Assembly

Continued...

Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
Model HC5 Generators
DFEB Begin Spec N, DFEC Begin Spec F, DFED Begin Spec D



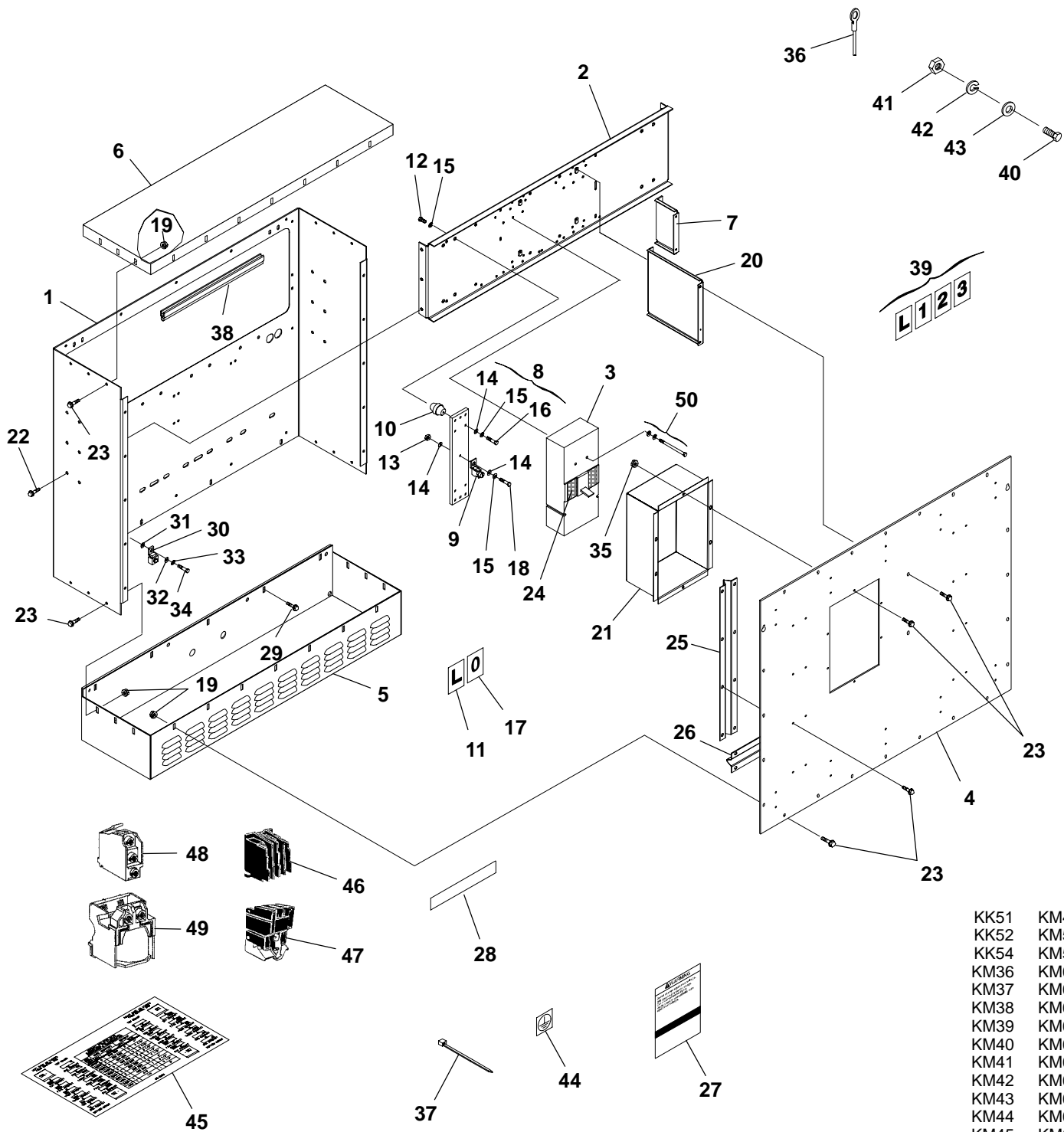
KK51	KM49
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KK54	KM51
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KM40	KM64
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KM42	KM66
KM43	KM67
KM44	KM68
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KM47	KM72
KM48	KM74

Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
Model HC5 Generators
DFEB Begin Spec N, DFEC Begin Spec F, DFED Begin Spec D

Continued...

31		Lead (Quantity Used As Required) 39" (Without Markings) (#1/0 Wire)	38	098-6537	1	Label, Ground
	226-4406-03	1				Accessories, Circuit Breaker: The following are used on 320-1960-XX Circuit Breakers
	226-4406-04	1				Switch – Used as a Trip
32	508-1092	–	39	320-1981-01	2	Alarm or Auxiliary Contact
		Edging – Bulk (Order By The Foot – 3 Feet Required)	40	320-1981-03	1	24 Volt Shunt Trip
33	098-2304	1				Accessories, Circuit Breaker: The following are used on 320-1963-XX and 320-1964-XX Circuit Breakers
34		Label, Warning				Switches – Includes 1
	098-5854-06	1				Trip Alarm and 1
	098-5854-07	1	41	320-1977-01	1	Auxiliary Contact
	098-5854-08	1				24 Volt Shunt Trip
	098-5854-09	1	42	320-1977-03	1	The following four hardware items are used to fasten the load leads to the generator and neutral bar. Quantity used as required.
	098-5854-10	1				Screw, Cap – Hex Head (M12 x 50mm)
35	319-3329	1				Nut, Hex (M12)
36	098-6832	1				Washer, Lock – Spring (M12)
37		Bracket, Mounting				Washer, Flat (M12)
		Label, Conduit Information				
		Package, Hardware –				
		Mounting (Includes Screws, Nuts and Lock Washers – 1 Package Required Per Switch)	43	800-2116	1	
	320-1986-07	1	44	860-2010	1	
		Used With 320-1960-XX Circuit Breakers and 320-1990-XX Disconnect Switch	45	850-2012	1	
			46	526-2140	1	
	320-1986-02	1				
		Used With 320-1963-XX Circuit Breakers and 320-1991-XX Disconnect Switch				
	320-1986-01	1				
		Used With 320-1964-XX Circuit Breakers and 320-1992-XX Disconnect Switches				

Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
Model HC6 Generators
DFED Spec C



KK51	KM49
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KM47	KM72
KM48	KM74

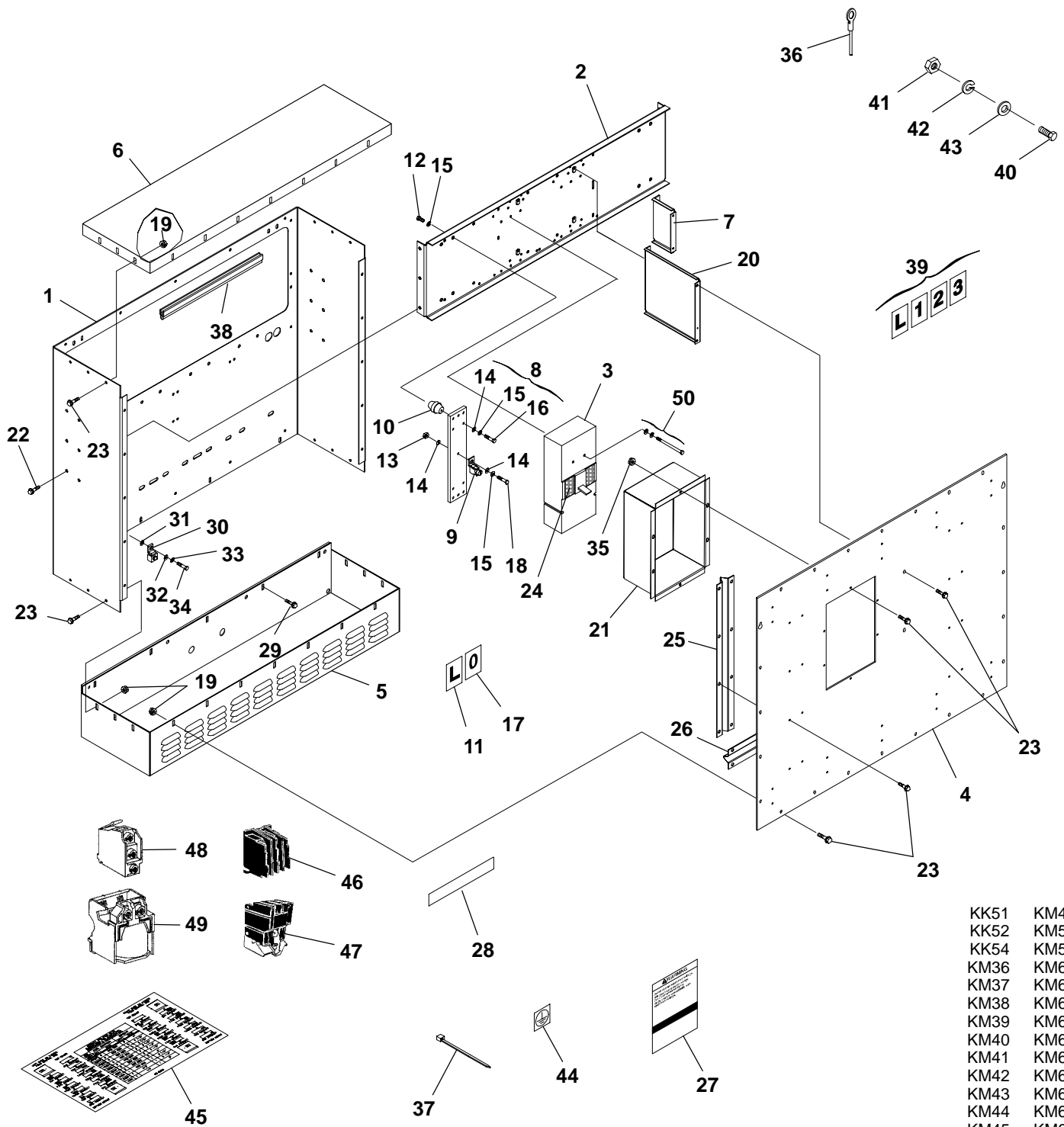
Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
Model HC6 Generators
DFED Spec C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3184	1	Box, Circuit Breaker	24	895-0182	–	Stripping, Weather – Bulk
2	319-3153	1	Bracket, Mounting				(Order By The Foot – 1
3			The following listed Circuit				Foot Required)
			Breakers and Disconnect	25	319-3286	2	Brace, Cover (Vertical)
			Switches include lugs and	26	319-3288	2	Brace, Cover (Horizontal)
			mounting hardware.	27	098-2304	1	Label, Warning
			Circuit Breakers	28	091-0002	1	Strip, Copper (Used for
			3 Pole (UL, IEC)				wrapping end of leads
	320-1970-03	1	200 Amp				before securing to circuit
	320-1970-02	1	225 Amp				breakers and disconnect
	320-1970-01	1	250 Amp				switches) (Quantity Used
	320-1963-06	1	300 Amp				As Required)
	320-1963-04	1	400 Amp	29	821-2034	5	Screw, Self-Locking – Hex
	320-1963-03	1	450 Amp				Washer Head (M6 x 20mm)
	320-1963-01	1	600 Amp	30	332-2001	1	Lug, Solderless
	320-1964-05	1	700 Amp	31	856-0010	1	Washer, Lock – EIT (3/8")
	320-1964-04	1	800 Amp	32	526-2120	1	Washer, Flat (M10)
	320-1964-03	1	900 Amp	33	850-2010	1	Washer, Lock – Spring (M10)
	320-1964-02	1	1000 Amp	34	800-2086	1	Screw, Cap – Hex Head
	320-1964-01	1	1200 Amp				(M10 x 25mm)
			Disconnect Switches	35	870-2054	6	Nut, Hex – Flange (M6)
			3 Pole (UL, IEC)	36			Lead (Quantity Used As
	320-1991-01	1	600 Amp				Required) 39" (Without
	320-1992-02	1	800 Amp				Markings) (#1/0 Wire)
	320-1992-01	1	1200 Amp		226-4406-03	1	1/2" Ring Terminal End to
4	319-3300	1	Cover				1" Stripped End
5	319-1925	1	Panel – Bottom		226-4406-04	1	1/2" Ring Terminal End to
6	319-1961	1	Panel – Top				1/2" Ring Terminal End
7	319-3253-01	1	Brace, Cover	37	332-1389	A/R	Tie, Wire
8	300-4318-01	1	Bar Assembly, Neutral –	38	508-1109	–	Edging – Bulk (Order By The
			Used on 3 Pole Circuit				Foot – 3 Feet Required)
			Breakers and Disconnect	39			Label, Marker (10 Characters
			Switches (Includes Neutral				Per Card) (Quantity Used
			Bars and Parts Marked *)				As Required)
9	332-2001	3	* Lug, Solderless		098-5854-06	1	Marked "L"
10	332-2744-07	2	* Standoff, Insulator		098-5854-07	1	Marked "1"
11	098-5854-06	1	* Label, Marker – Marked "L"		098-5854-08	1	Marked "2"
12	800-0048	2	* Screw, Cap – Hex Head		098-5854-09	1	Marked "3"
			(3/8-16 x 3/4")				The following four
13	862-0003	3	* Nut, Hex (3/8")				hardware items are used
14	526-0029	8	* Washer, Flat (3/8")				to fasten the load leads to
15	850-0050	7	* Washer, Lock – Spring (3/8")				the generator and neutral
16	800-0051	2	* Screw, Cap – Hex Head				bar. Quantity used as
			(3/8-16 x 1-1/4")				required.
17	098-5854-10	1	* Label, Marker – Marked "0"	40	800-2114	1	Screw, Cap – Hex Head
18	800-0052	3	* Screw, Cap – Hex Head				(M12 x 40mm)
			(3/8-16 x 1-1/2")	41	860-2010	1	Nut, Hex (M12)
19			Nut, Self-Retaining (M6)	42	850-2012	1	Washer, Lock – Spring (M12)
	870-0504	26	300-630 Amp Circuit	43	526-2140	1	Washer, Flat (M12)
			Breakers	44	098-6537	1	Label, Ground
	870-0504	30	700-1250 Amp Circuit	45	098-6865	1	Label, Conduit Information
			Breakers				
20	319-3252-01	1	Brace, Cover				
21	319-2431-28	1	Cup				
22	821-6003-02	6	Screw, Self-Locking – Hex				
			Washer Head (M8 x 20mm)				
23	821-6002-03	91	Screw, Self-Locking – Hex				
			Washer Head (M6 x 16mm)				

* – Parts Included In 300-4318-01 Neutral Bar Assembly

Continued...

Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
Model HC6 Generators
DFED Spec C



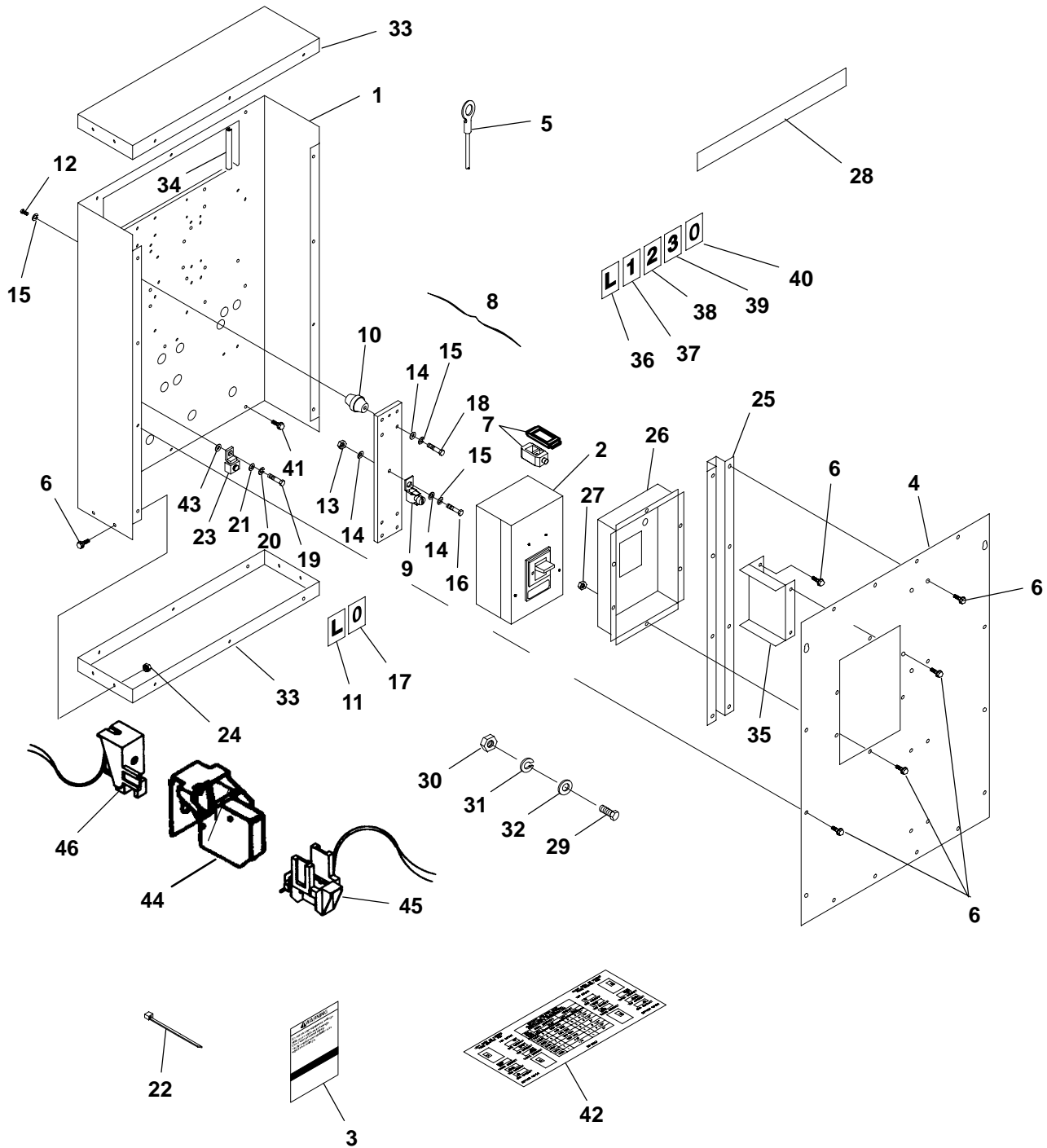
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KM47	KM72
KM48	KM74

**Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
Model HC6 Generators
DFED Spec C**

Continued...

			Accessories, Circuit Breaker: The following are used on 320-1963-XX and 320-1964-XX Circuit Breakers	49 50	320-1978-03	1	24 Volt Shunt Trip Package, Hardware – Mounting (Includes Screws, Nuts and Lock Washers – 1 Package Required Per Switch)
46	320-1977-01	1	Switches – Includes 1 Trip Alarm and 1 Auxilliary Contact		320-1986-02	1	Used With 320-1963-XX Circuit Breakers and 320-1991-XX Disconnect Switch
47	320-1977-03	1	24 Volt Shunt Trip				Used With 320-1964-XX Circuit Breakers and 320-1992-XX Disconnect Switches
			Accessories, Circuit Breaker: The following are used on 320-1970-XX Circuit Breakers		320-1986-01	1	Used With 320-1970-XX Circuit Breakers
48	320-1978-01	2	Switch – Used as a Trip Alarm or Auxiliary Contact		320-1986-03	1	

**Circuit Breaker
Non-UL Listed
Model HC5 Generators
DFEB Spec J Through L, DFEC Spec C Through E
DFED Spec A Through B, DFFB Begin Spec J**



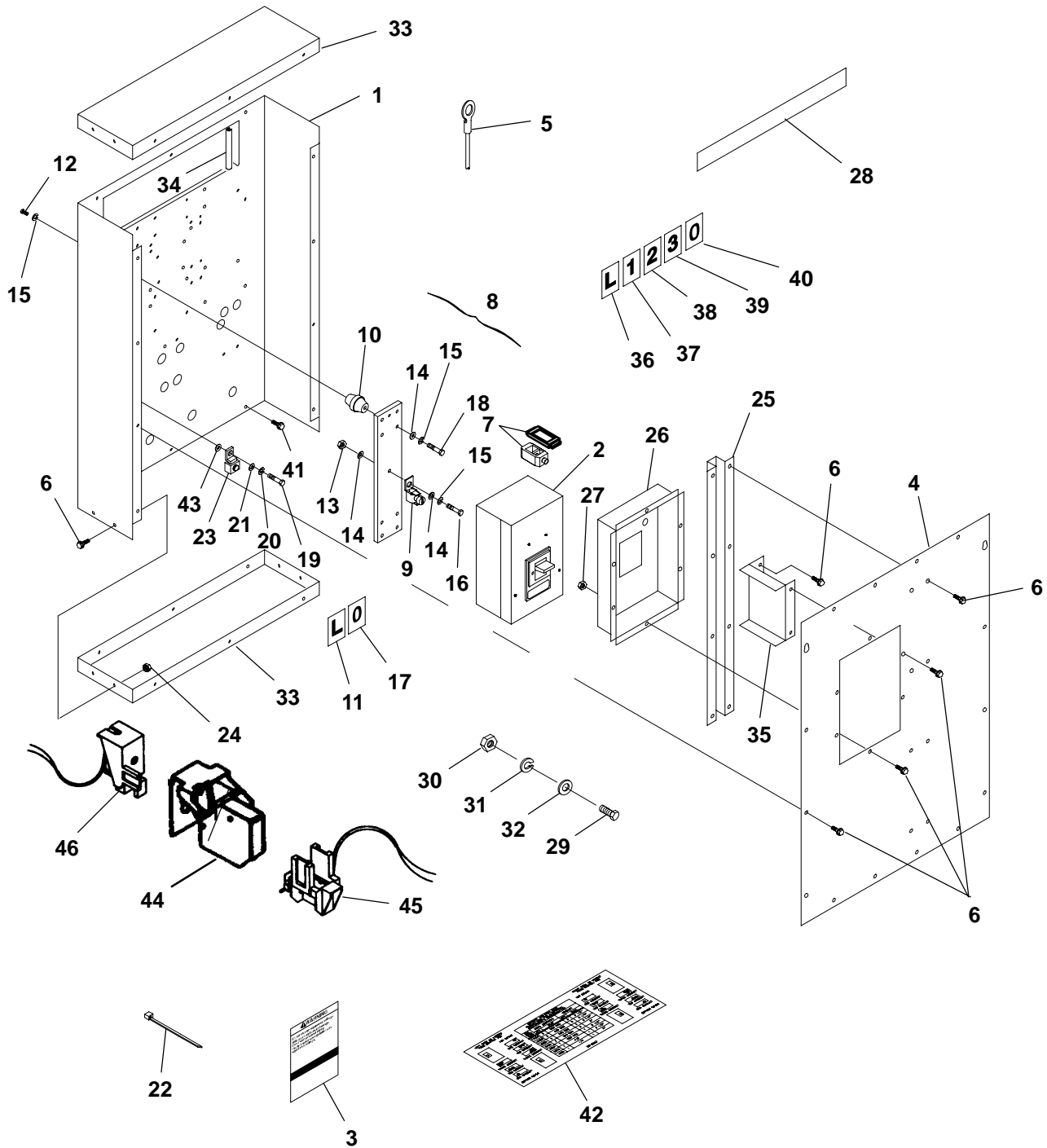
**Circuit Breaker
Non-UL Listed
Model HC5 Generators
DFEB Spec J Through L, DFEC Spec C Through E
DFED Spec A Through B, DFFB Begin Spec J**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Box, Circuit Breaker	15	850-0050	7	* Washer, Lock – Spring (3/8")
	319-2433	1	3 Pole Circuit Breakers	16	800-0051	2	* Screw, Cap – Hex Head (3/8-16 x 1-1/4")
	319-2464	1	4 Pole Circuit Breakers	17	098-5854-10	1	* Label, Marker – Marked "0"
2			Breaker, Circuit (Includes Mounting Screws (CB21)	18	800-0052	3	* Screw, Cap – Hex Head (3/8-16 x 1-1/2")
			Three Pole Breakers	19	800-0050	1	Screw, Cap – Hex Head (3/8-16 x 1")
	320-1728-02	1	500 Amp	20	850-0050	1	Washer, Lock – Spring (3/8")
	320-1728-03	1	630 Amp	21	526-0029	1	Washer, Flat (3/8")
	320-1729-03	1	800 Amp	22	332-1389	A/R	Tie, Wire
	320-1730-03	1	1000 Amp	23	332-2001	1	Lug, Solderless
	320-1730-04	1	1250 Amp	24	870-0494	16	Nut, Self-Retaining – Floating (1/4-20)
			Four Pole Breakers	25	319-1918	1	Brace, Cover
	320-1728-05	1	500 Amp	26			Cup, Circuit Breaker
	320-1728-06	1	630 Amp		319-2431-16	1	Opening Recessed 4-1/4"
	320-1729-06	1	800 Amp				500, 630, 800 Amp Breakers
	320-1730-07	1	1000 Amp				Opening Recessed 3"
	320-1730-08	1	1250 Amp				1000, 1250 Amp Breakers
3	098-2304	1	Label, Warning	27	870-0212	6	Nut, Locking (1/4-20)
4			Cover, Circuit Breaker	28	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers) (Quantity Used As Required)
	319-1917	1	Sets With 3 Pole Breaker Mounted On Left Or Right Side When Facing Control				The following four hardware items are used to fasten the load leads to the generator, neutral bar and circuit breakers that are 800 amp or larger. Quantity used as required.
	319-1917	1	Sets With 4 Pole Breaker Mounted On Left Side When Facing Control	29	800-0092	1	Screw, Cap – Hex Head (1/2-13 x 1-1/2")
	319-2463	1	Sets With 4 Pole Breaker Mounted On Right Side When Facing Control	30	862-0016	1	Nut, Hex (1/2-13)
5			Lead – Circuit Breaker (Quantity Used As Required) 39" (Without Markings) (#1/0 Wire)	31	850-0060	1	Washer, Lock – Spring (1/2")
	226-4406-03	1	1/2" Ring Terminal End to 1" Stripped End	32	526-0219	1	Washer, Flat (1/2")
	226-4406-04	1	1/2" Ring Terminal End to 1/2" Ring Terminal End	33	319-1915	2	Panel – Top
6	821-5002-03	32	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	34	508-1092	–	Edging – Bulk (Order By The Foot – 3 Feet Required)
7			Lug Set – Circuit Breaker (Packaged In Sets – Two Lugs Per Set) (Quantity Used As Required)	35	319-1927	1	Brace, Cover
	320-1755-14	1	500, 630 Amp Breakers	36			Label, Marker (10 Characters Per Card) Marked "L"
	320-1755-16	1	800 Amp Breakers		098-5854-06	3	3 Pole Breakers
	320-1755-15	1	1000, 1250 Amp Breakers		098-5854-06	4	4 Pole Breakers
8	300-4318-01	1	Bar Assembly, Neutral (Includes Neutral Bars and Parts Marked *) (Used With 3 Pole Circuit Breakers)	37	098-5854-07	1	Label, Marker (10 Characters Per Card) Marked "1"
9	332-2001	3	* Lug, Solderless	38	098-5854-08	1	Label, Marker (10 Characters Per Card) Marked "2"
10	332-2744-07	2	* Standoff, Insulator				
11	098-5854-06	1	* Label, Marker – Marked "L"				
12	800-0048	2	* Screw, Cap – Hex Head (3/8-16 x 3/4")				
13	862-0003	3	* Nut, Hex (3/8")				
14	526-0029	8	* Washer, Flat (3/8")				

* – Parts Included In 300-4318-01 Neutral Bar Assembly

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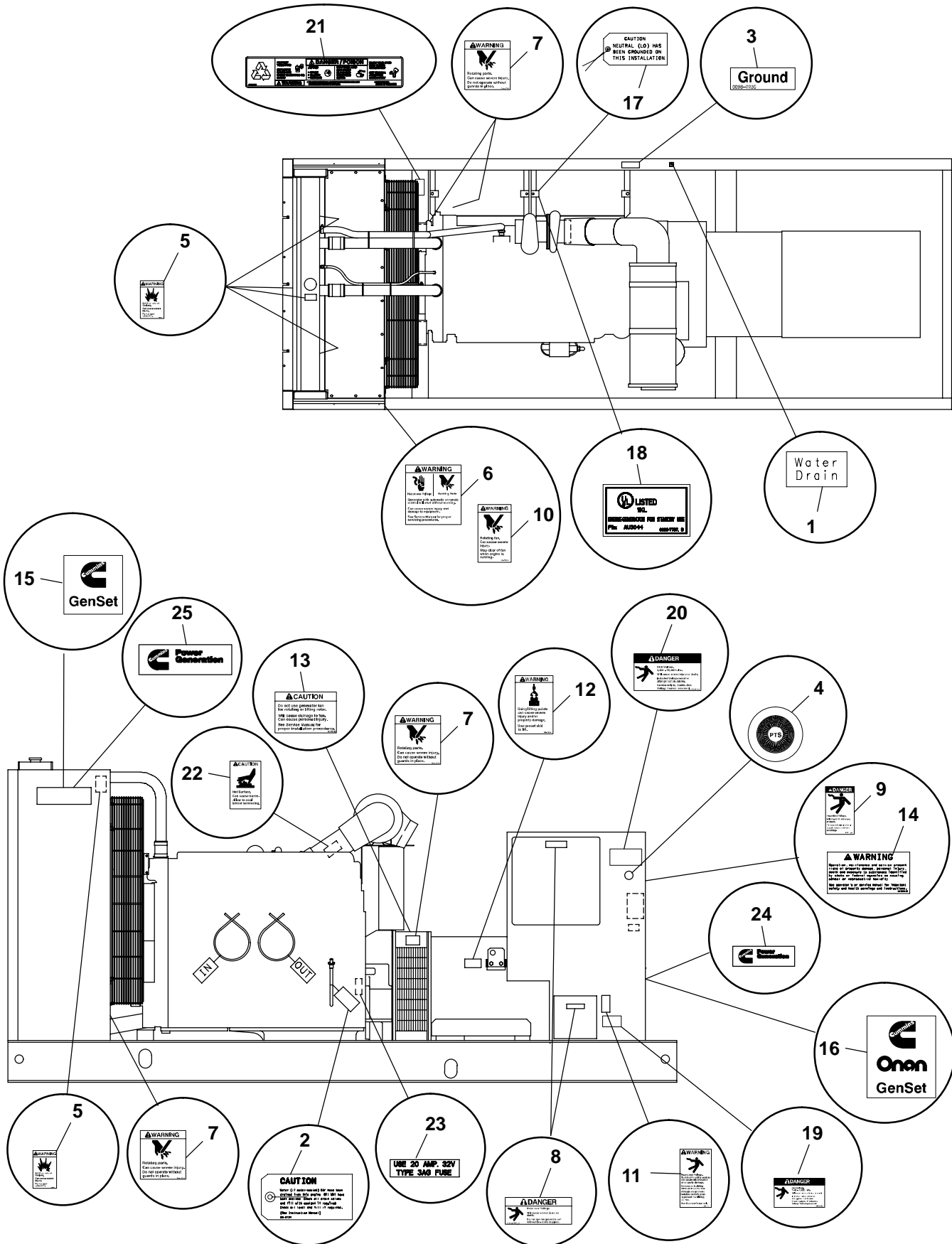
**Circuit Breaker
Non-UL Listed
Model HC5 Generators
DFEB Spec J Through L, DFEC Spec C Through E
DFED Spec A Through B, DFFB Begin Spec J**



**Circuit Breaker
Non-UL Listed
Model HC5 Generators
DFEB Spec J Through L, DFEC Spec C Through E
DFED Spec A Through B, DFFB Begin Spec J**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
39	098-5854-09	1	Label, Marker (10 Characters Per Card) Marked "3"	44			Contact, Auxiliary
40	098-5854-10	1	Label, Marker (10 Characters Per Card) Marked "0" (4 Pole Breakers)		320-1747-15	1	500, 630, 800 Amp Breakers
					320-1747-18	1	1000, 1250 Amp Breakers
41	821-0009	5	Screw, Self-Locking – Hex Washer Head (1/4-20 x 3/8")	45			Alarm, Bell
					320-1748-13	1	500, 630, 800 Amp Breakers
42	098-6832	1	Label, Conduit Information		320-1748-14	1	1000, 1250 Amp Breakers
43	856-0010	1	Washer, Lock – EIT (3/8")	46			Trip, 24 Volt Shunt
					320-1749-13	1	500, 630, 800 Amp Breakers
					320-1749-14	1	1000, 1250 Amp Breakers

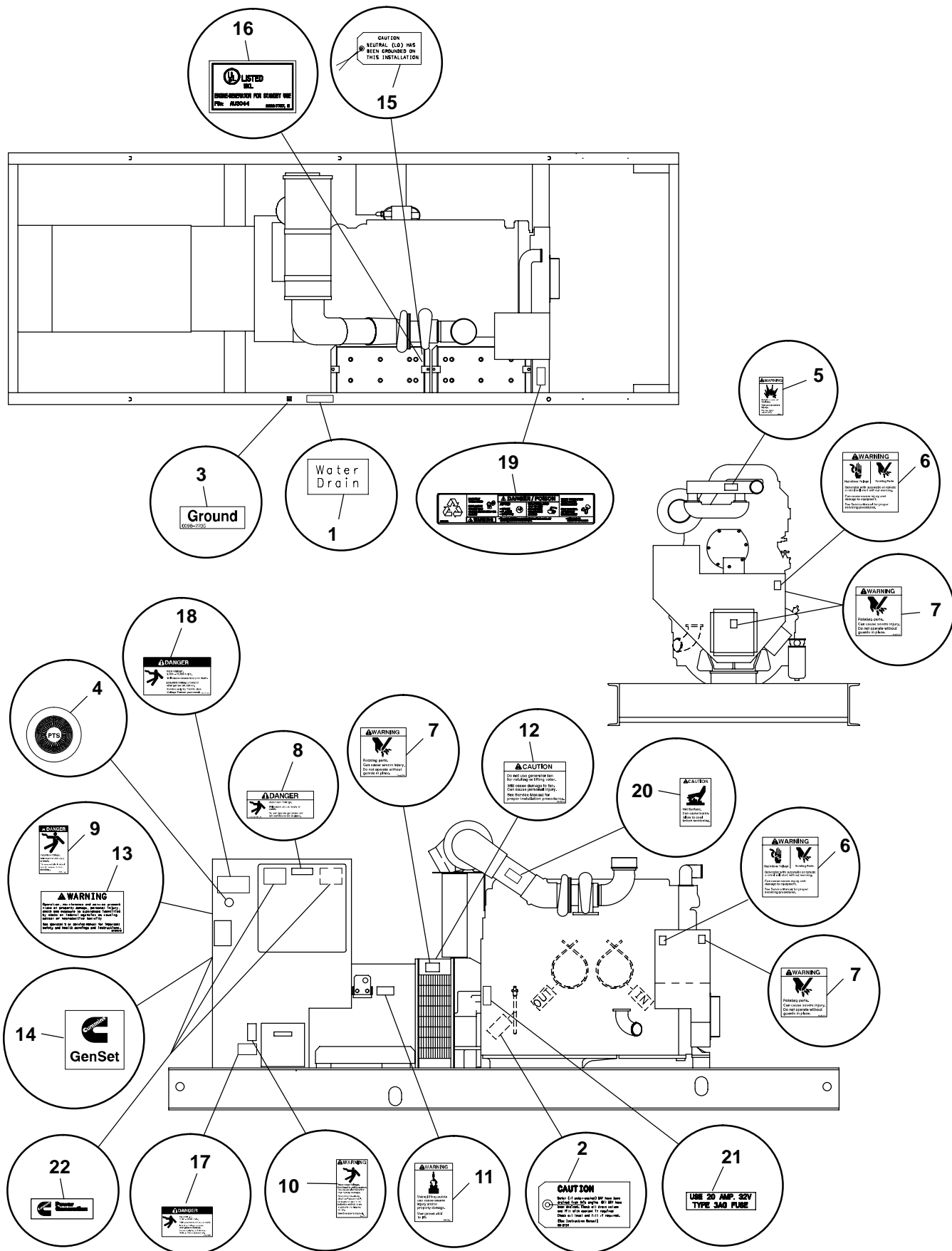
Labels and Tags Models With Radiator



Labels and Tags Models With Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-1837-01	1	Label, Oil Drain (DFEB Spec J and K, DFEC Spec C and D, DFED Spec A, DFFB Begin Spec J)	16	098-6139-07	2	Label, Model Identification (10") (DFEB Spec J Through R, DFEC Spec C Through J, DFED Spec A Through F, DFFB Begin Spec J)
2	098-2124	1	Tag, Warning – Water and Oil Levels	17	098-6460	1	Tag, Caution (Battery)
3	098-2235	1	Label, Ground DFEB Spec J Through K DFEC Spec C Through D DFED Spec A DFFB Begin Spec J	18	098-7737	1	Label, UL Certification – Models That Are UL Certified (DFEB Begin Spec R, DFEC Begin Spec J, DFEC Begin Spec F)
	098-6537	1	DFEB Spec L Through R DFEC Spec E Through J DFED Spec B Through F	19	098-6650-01	2	Label, Danger – High Voltage (DFEC Spec C)
4	098-4500	2	Label, Prototype Test Supported	20	098-6650-02	2	Label, Danger – High Voltage (DFEC Spec C)
5	098-4730	4	Label, Warning – Hot Pressurized Coolant	21	098-7877	1	Label, Battery Warning (DFEB Begin Spec S, DFEC Begin Spec K, DFEC Begin Spec G)
6	098-4732	2	Label, Warning – Automatic or Remote Control	22	098-6195	1	Label, Caution (DFEB Begin Spec S, DFEC Begin Spec K, DFEC Begin Spec G)
7	098-4798	5	Label, Warning – Rotating Parts				
8	098-5347	4	Label, Danger – Hazardous Voltage	23	098-7878	1	Label, Fuse (20A) (DFEB Begin Spec S, DFEC Begin Spec K, DFEC Begin Spec G)
9	098-5387	1	Label, Danger – Hazardous Voltage From Electrical Sources				
10	098-5393	2	Label, Warning – Rotating Fan	24	098-7902-03	1	Label, Logo (4") (DFEB Begin Spec S, DFEC Begin Spec K, DFEC Begin Spec G)
11	098-5759	2	Label, Warning – Hazardous Voltage Backfeed				
12	098-5822	4	Label, Warning – Lifting Points	25	098-7902-04	3	Label, Logo (6") (DFEB Begin Spec S, DFEC Begin Spec K, DFEC Begin Spec G)
13	098-5842	1	Label, Caution – Generator Fan				
14	098-6074-02	1	Label, Warning				
15	098-6139-04	1	Label, Model (5") (DFEB Spec J Through R, DFEC Spec C Through J, DFED Spec A Through F, DFFB Begin Spec J)				

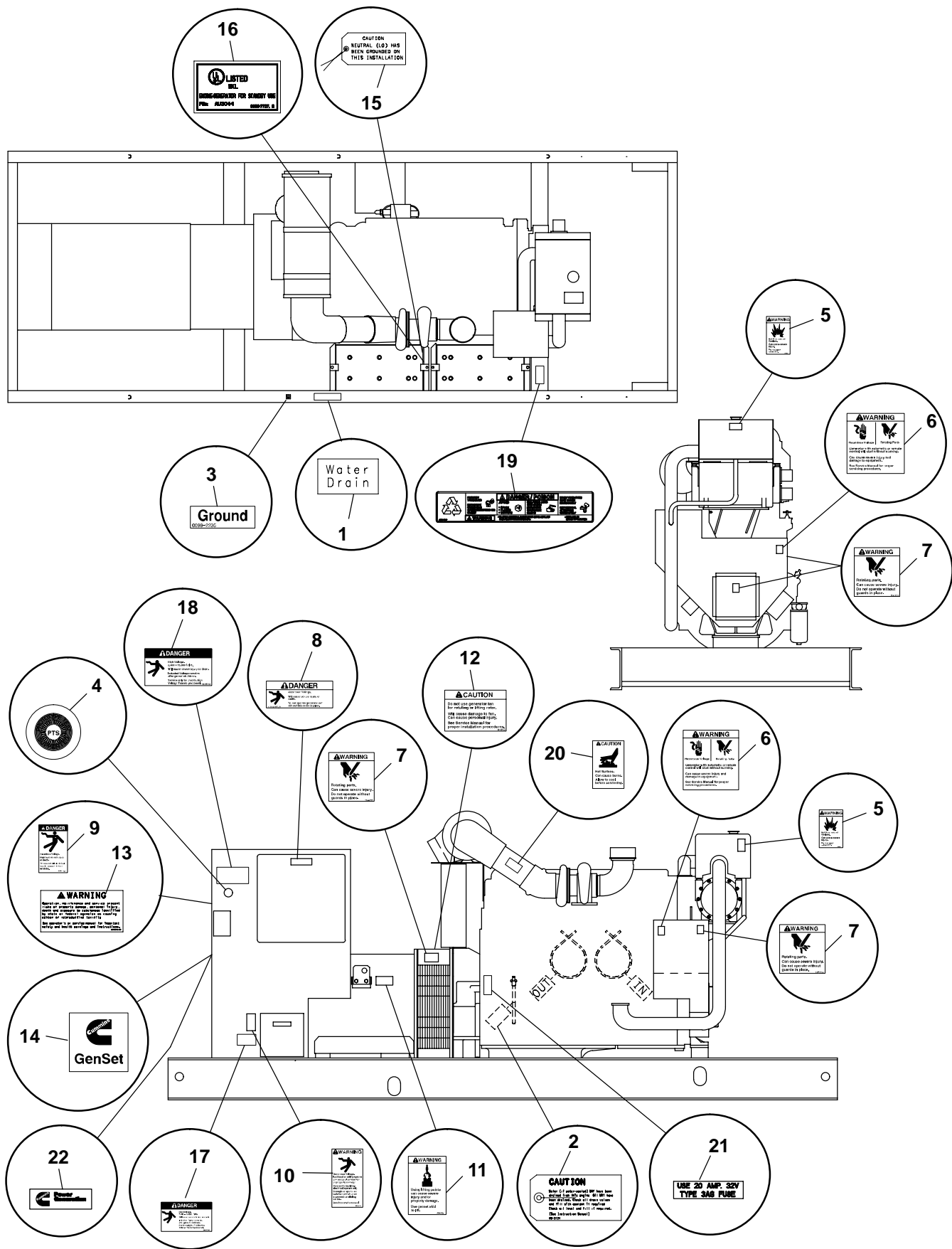
Labels and Tags Models With Remote Radiator



Labels and Tags Models With Remote Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-1837-01	1	Label, Oil Drain (DFEB Spec J and K, DFEC Spec C and D, DFED Spec A, DFFB Begin Spec J)	13	098-6074-02	1	Label, Warning
2	098-2124	1	Tag, Warning – Water and Oil Levels	14	098-6139-04	1	Label, Model (5") (DFEB Spec J Through R, DFEC Spec C Through J, DFED Spec A Through F, DFFB Begin Spec J)
3	098-2235	1	Label, Ground DFEB Spec J Through K DFEC Spec C Through D DFED Spec A DFFB Begin Spec J	15	098-6460	1	Tag, Caution (Battery)
	098-6537	1	DFEB Spec L Through R DFEC Spec E Through J DFED Spec B Through F	16	098-7737	1	Label, UL Certification – Models That Are UL Certified (DFEB Spec R, DFEC Spec J, DFEC Spec F)
4	098-4500	2	Label, Prototype Test Supported	17	098-6650-01	2	Label, Danger – High Voltage (DFEC Spec C)
5	098-4730	4	Label, Warning – Hot Pressurized Coolant	18	098-6650-02	2	Label, Danger – High Voltage (DFEC Spec C)
6	098-4732	2	Label, Warning – Automatic or Remote Control	19	098-7877	1	Label, Battery Warning (DFEB Begin Spec S, DFEC Begin Spec K, DFEC Begin Spec G)
7	098-4798	3	Label, Warning – Rotating Parts	20	098-6195	1	Label, Caution (DFEB Begin Spec S, DFEC Begin Spec K, DFEC Begin Spec G)
8	098-5347	4	Label, Danger – Hazardous Voltage	21	098-7878	1	Label, Fuse (20A) (DFEB Begin Spec S, DFEC Begin Spec K, DFEC Begin Spec G)
9	098-5387	1	Label, Danger – Hazardous Voltage From Electrical Sources	22	098-7902-03	3	Label, Logo (4") (DFEB Begin Spec S, DFEC Begin Spec K, DFEC Begin Spec G)
10	098-5759	2	Label, Warning – Hazardous Voltage Backfeed				
11	098-5822	4	Label, Warning – Lifting Points				
12	098-5842	1	Label, Caution – Generator Fan				

Labels and Tags Models With Heat Exchanger



Labels and Tags Models With Heat Exchanger

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-1837-01	1	Label, Oil Drain (DFEB Spec J and K, DFEC Spec C and D, DFED Spec A, DFFB Begin Spec J)	13	098-6074-02	1	Label, Warning
2	098-2124	1	Tag, Warning – Water and Oil Levels	14	098-6139-04	1	Label, Model (5") (DFEB Spec J Through R, DFEC Spec C Through J, DFED Spec A Through F, DFFB Begin Spec J)
3	098-2235	1	Label, Ground DFEB Spec J Through K DFEC Spec C Through D DFED Spec A DFFB Begin Spec J	15	098-6460	1	Tag, Caution (Battery)
	098-6537	1	DFEB Spec L Through R DFEC Spec E Through J DFED Spec B Through F	16	098-7737	1	Label, UL Certification – Models That Are UL Certified (DFEB Spec R, DFEC Spec J, DFEC Spec F)
4	098-4500	2	Label, Prototype Test Supported	17	098-6650-01	2	Label, Danger – High Voltage (DFEC Spec C)
5	098-4730	1	Label, Warning – Hot Pressurized Coolant	18	098-6650-02	2	Label, Danger – High Voltage (DFEC Spec C)
6	098-4732	2	Label, Warning – Automatic or Remote Control	19	098-7877	1	Label, Battery Warning (DFEB Begin Spec S, DFEC Begin Spec K, DFEC Begin Spec G)
7	098-4798	3	Label, Warning – Rotating Parts	20	098-6195	1	Label, Caution (DFEB Begin Spec S, DFEC Begin Spec K, DFEC Begin Spec G)
8	098-5347	4	Label, Danger – Hazardous Voltage	21	098-7878	1	Label, Fuse (20A) (DFEB Begin Spec S, DFEC Begin Spec K, DFEC Begin Spec G)
9	098-5387	1	Label, Danger – Hazardous Voltage From Electrical Sources	22	098-7902-03	1	Label, Logo (4") (DFEB Begin Spec S, DFEC Begin Spec K, DFEC Begin Spec G)
10	098-5759	2	Label, Warning – Hazardous Voltage Backfeed				
11	098-5822	4	Label, Warning – Lifting Points				
12	098-5842	1	Label, Caution – Generator Fan				

Accessories

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

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Muffler	3	155-2551	1	Package, Pipe – Exhaust
	155-2340-02	1	Industrial Side Inlet				(8" Silencer) (Includes
	155-2341-02	1	Residential Side Inlet				Exhaust Adapter, Reducer
	155-2342-02	1	Critical Side Inlet				Flange, Exhaust Gaskets,
2	307-1056	1	Relay, Auxiliary – 3PDT (24V)				Companion Flange,
							Screws, Washers, and
							Nuts)

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