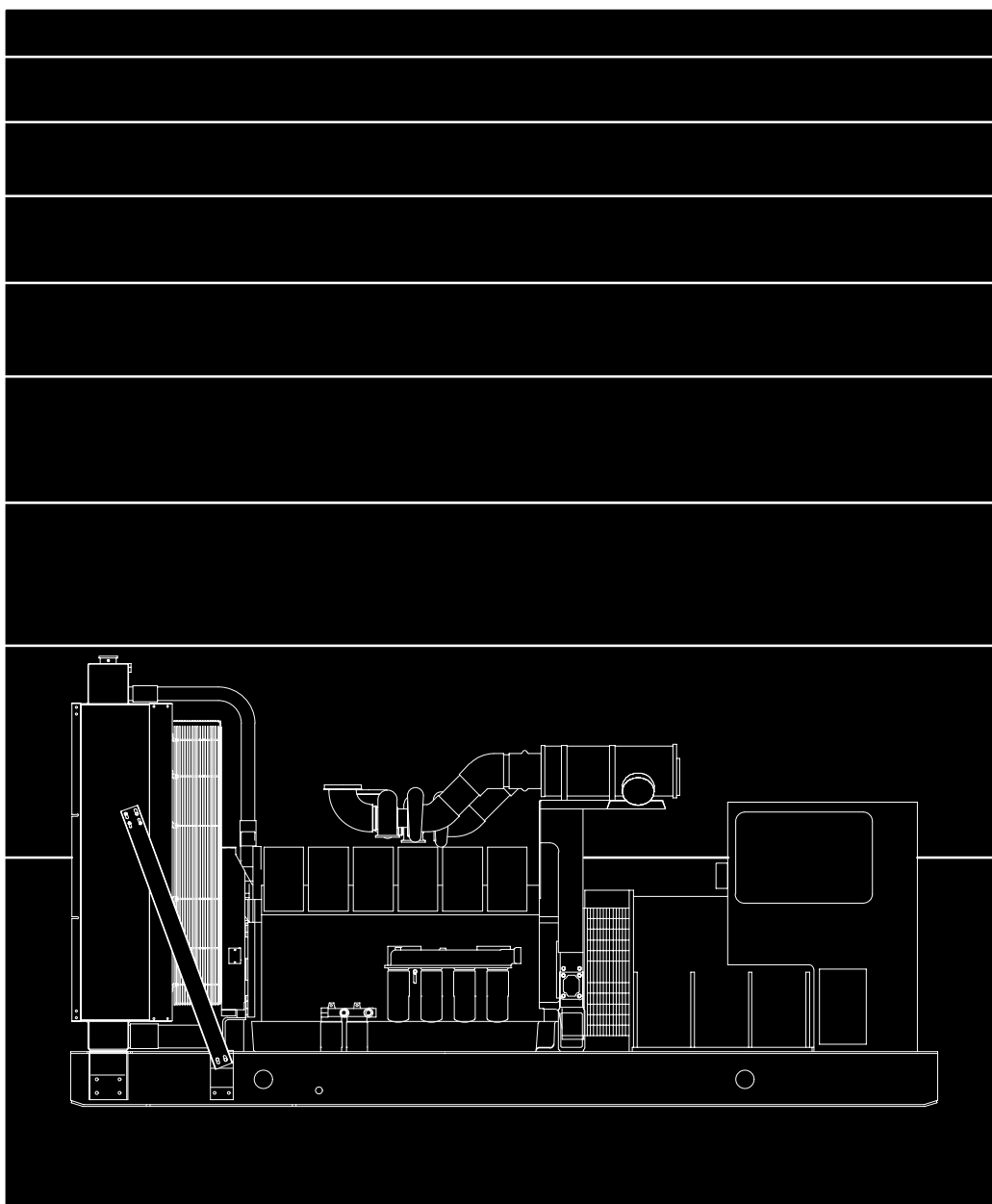




Parts Catalog

DFLB
DFLC
DFLD
DFMB
Generator Set



MODEL IDENTIFICATION

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

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

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

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



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



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



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

PRODUCT SAFETY PRECAUTIONS



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



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



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



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

Introduction

This catalog applies to Onan Generator Models DFLB, DFLC, DFLD, and DFMB 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
DFLB	KTA50–G2 Configuration No. D283014DX02
DFLC	KTA50–G3 Configuration No. D283021DX02
DFLD	KTA50–G4 Configuration No. D283022DX02
DFMB	KTTA50–G2 Configuration No. D283025DX02

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	
1100DFLB/*	1,100,000	#	60	6	1 or 3	24 VDC
1120DFLC/*	1,120,000	#	50	6	1 or 3	24 VDC
1250DFLC/*	1,250,000	#	60	6	1 or 3	24 VDC
1200DFLD/*	1,200,000	#	50	6	1 or 3	24 VDC
1280DFMB/*	1,280,000	#	50	6	1 or 3	24 VDC
1500DFMB/*	1,500,000	#	60	6	1 or 3	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 reconnectible

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Abbreviations

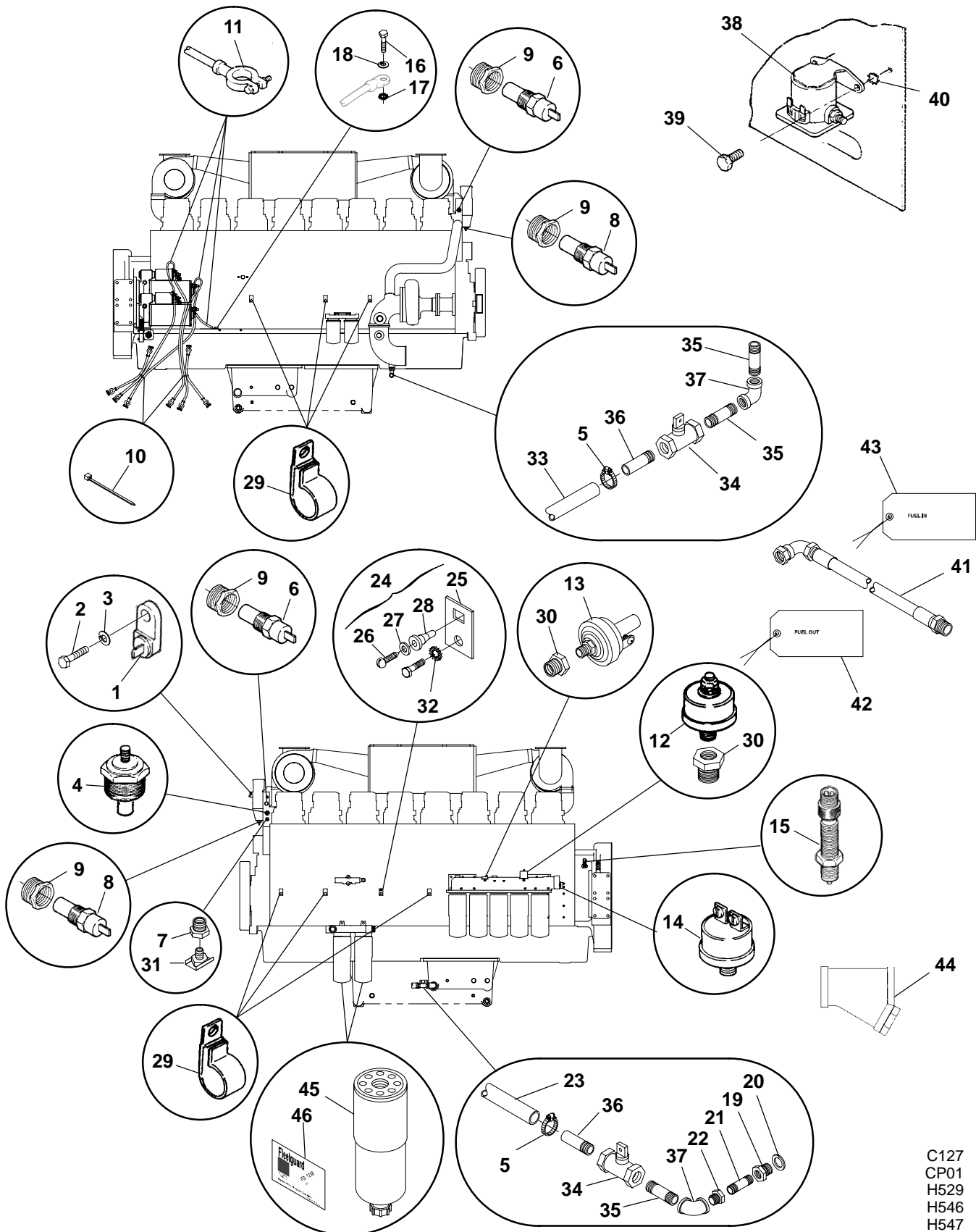
Some of the following abbreviations may be used throughout this Parts Catalog:

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

Paint and Thread Sealant

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Onan Green Enamel (Non-Metallic)				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 DFLB Spec K Through L

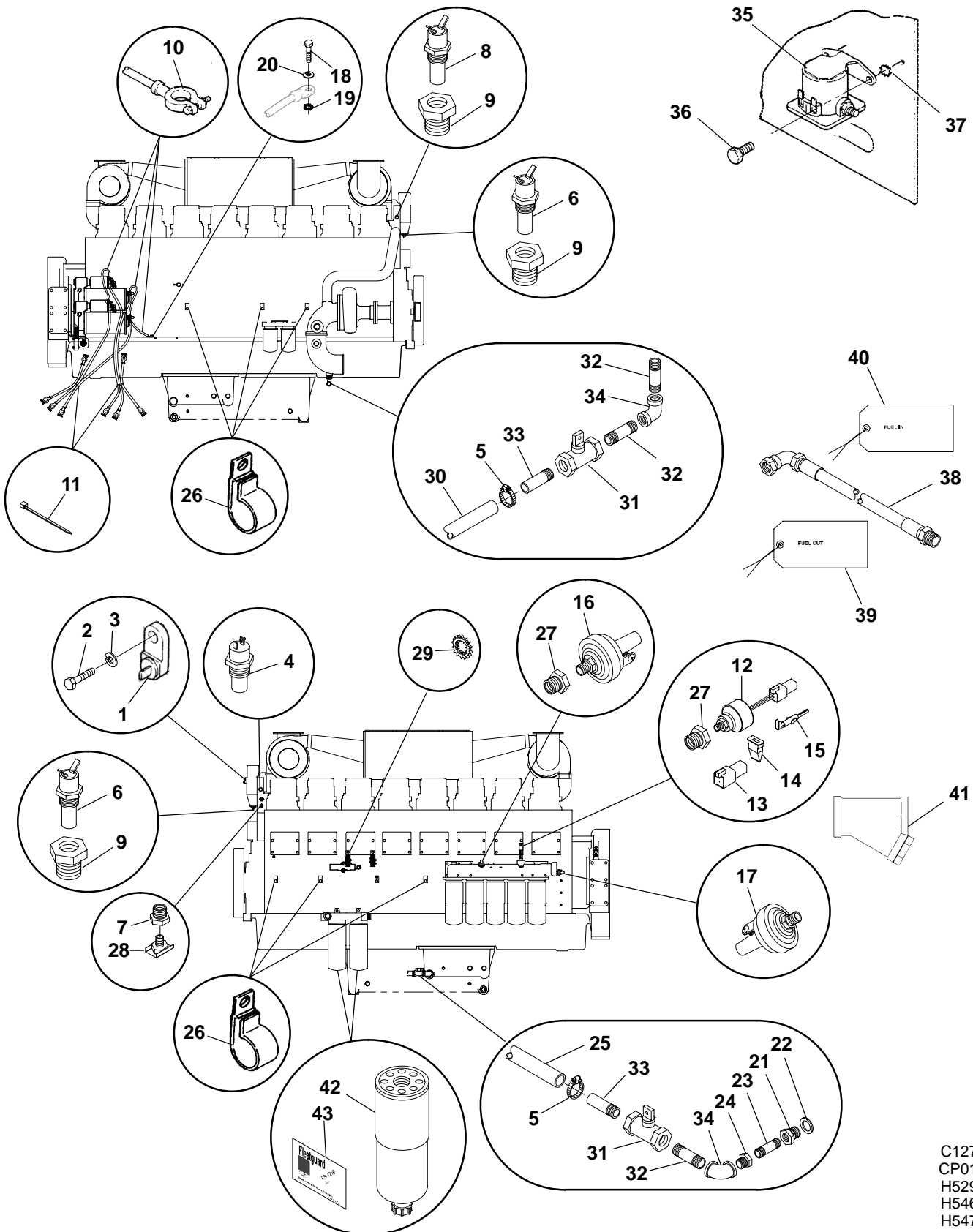


C127
CP01
H529
H546
H547

**External Engine Parts
Generator Sets With Detector Control
DFLB Spec K Through L**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	309-0269	1	Switch, Temperature – Low Engine Coolant (S4)	21	505-0100	1	Nipple, Pipe (1/2" x 1-1/8")
2	800-0062	1	Screw, Cap – Hex Head (3/8-16 x 4")	22	505-0021	1	Bushing, Pipe – Reducer (3/4" to 1/2")
3	850-0050	1	Washer, Lock – Spring (3/8")	23	503-0249	–	Hose – Bulk (1" ID) (Order By The Foot – 3 Feet Required)
4	193-0375	1	Sender, Water Temperature (E2)	24	332-1292	1	Terminal Assembly (Includes Parts Marked *) (T26)
5	503-0189	2	Clamp, Hose	25	332-1281	1	* Bracket, Terminal
6	309-0437	2	Switch, Thermostat – High Engine Coolant Temperature (Opens at 202 Deg F – Closes at 222 Deg F) (S2)	26	809-0036	1	* Screw, Sheet Metal – Round Head (#8 x 7/8")
7	505-0019	1	Bushing, Pipe – Reducer (1/2" to 3/8")	27	508-0015	1	* Washer, Fiber
8	309-0436	2	Switch, Thermostat – High Engine Coolant Temperature (Opens at 196 Deg F – Closes at 216 Deg F) (S6 Pre-Alarm)	28	870-0196	1	* Nut, Insulation
9	505-0131	4	Bushing, Pipe – Reducer (3/4" to 3/8")	29	332-2634	6	Clamp, "J"
10	332-0941	1	Tie, Cable (Quantity Used As Required)	30	505-0007	2	Bushing, Pipe – Reducer (1/4" to 1/8")
11			Cable, Battery	31	504-0028	1	Cock, Drain (3/8")
	416-0680	3	10" – Starters and Engine Ground (With 2 Ring Terminal Ends)	32	856-0010	1	Washer, Lock – EIT (3/8")
	416-0446	2	12-1/2" – Jumper (With Red Colored Battery Boot)	33	503-0249	–	Hose – Bulk (1" ID) (Order By The Foot – 2 Feet Required)
	416-0964	2	35" – Battery To Starter (With 1 Ring End And 1 Bolted End)	34	504-0171	2	Valve, Shutoff
	416-0639	2	60" – Battery To Starter (With 1 Ring End And 1 Bolted End)	35	505-0102	3	Nipple, Pipe (3/4" x 1-3/8")
12	193-0244	1	Sender, Oil Pressure (E1)	36	505-0324	2	Nipple, Pipe – Half (3/4" x 2")
13	309-0641-07	1	Switch, Oil Pressure (Opens at 20 Lbs Descending) (S5 – Pre-Alarm)	37	505-0132	2	Elbow, Street – 90 Deg (3/4")
14	309-0561	1	Switch, Oil Pressure (Opens at 14 Lbs Descending) (S1)	38	307-2167	1	Relay, Solenoid – Start (K2)
15	151-0411	1	Pickup, Magnetic	39	821-0010	2	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
16	800-0090	1	Screw, Cap – Hex Head (1/2-13 x 1")	40	856-0006	1	Washer, Lock – EIT (1/4")
17	856-0013	1	Washer, Lock – EIT (1/2")	41			Line, Fuel – Flexible
18	850-0060	1	Washer, Lock – Spring (1/2")		501-0520	1	Generator Sets Without Fuel Transfer Pump – Feature Option C174
19	102-1335	1	Plug, Oil Drain (Special)		501-0524	1	Fuel Out (1/2" ID x 50")
20	508-0292	1	Washer, Sealing – Copper				Fuel In (5/8" ID x 50")
							Generator Sets With Fuel Transfer Pump – Feature Option C174 – Spec L
					501-0662	1	Fuel In (1" ID x 84" – With 90 Deg Female Swivel)
					501-0652	1	Fuel Out (3/4" ID x 72" – With 90 Deg Female Swivel)
				42	098-3171	1	Tag, Fuel Out
				43	098-3172	1	Tag, Fuel In
				44	502-1275	1	Strainer, Fuel – Begin Spec L
				45	149-2228	2	Separator, Fuel/Water
				46	098-6099-03	2	Decal, Fuel Filter

External Engine Parts Generator Sets With Detector Control DFLB Begin Spec M

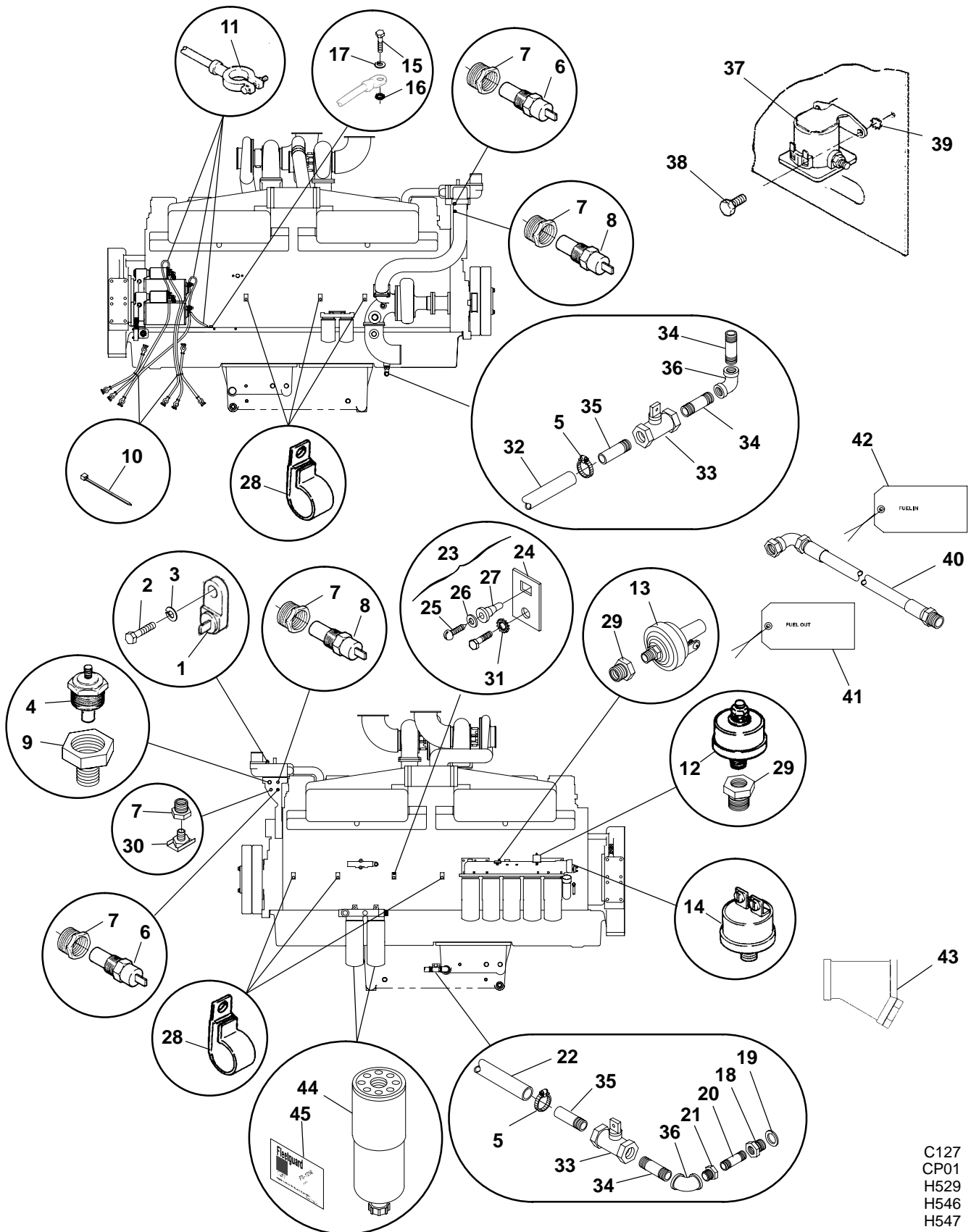


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**External Engine Parts
Generator Sets With Detector Control
DFLB Begin Spec M**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	309-0269	1	Switch, Temperature – Low Engine Coolant (S4)	19	856-0013	1	Washer, Lock – EIT (1/2")
2	800-0062	1	Screw, Cap – Hex Head (3/8-16 x 4")	20	850-0060	1	Washer, Lock – Spring (1/2")
3	850-0050	1	Washer, Lock – Spring (3/8")	21	102-1335	1	Plug, Oil Drain (Special)
4	193-0447-01	1	Sender, Water Temperature (E2)	22	508-0292	1	Washer, Sealing – Copper
5	503-0189	2	Clamp, Hose	23	505-0100	1	Nipple, Pipe (1/2" x 1-1/8")
6	309-0576	2	Switch, Thermostat – High Engine Coolant Temperature (Opens at 202 Deg F – Closes at 222 Deg F) (S2)	24	505-0021	1	Bushing, Pipe – Reducer (3/4" to 1/2")
7	505-0019	1	Bushing, Pipe – Reducer (1/2" to 3/8")	25	503-0249	–	Hose – Bulk (1" ID) (Order By The Foot – 3 Feet Required)
8	309-0651-02	1	Switch, Thermostat – High Engine Coolant Temperature (Opens at 190 Deg F – Closes at 214 Deg F) (S6 Pre-Alarm)	26	332-2634	6	Clamp, "J"
9	505-0131	3	Bushing, Pipe – Reducer (3/4" to 3/8")	27	505-0007	2	Bushing, Pipe – Reducer (1/4" to 1/8")
10	416-0680	3	Cable, Battery 10" – Starters and Engine Ground (With 2 Ring Terminal Ends)	28	504-0028	1	Cock, Drain (3/8")
	416-0446	2	12-1/2" – Jumper (With Red Colored Battery Boot)	29	856-0010	1	Washer, Lock – EIT (3/8")
	416-0964	2	35" – Battery To Starter (With 1 Ring End And 1 Bolted End)	30	503-0249	–	Hose – Bulk (1" ID) (Order By The Foot – 2 Feet Required)
	416-0639	2	60" – Battery To Starter (With 1 Ring End And 1 Bolted End)	31	504-0171	2	Valve, Shutoff
11	332-0941	1	Tie, Cable (Quantity Used As Required)	32	505-0102	3	Nipple, Pipe (3/4" x 1-3/8")
12	193-0448	1	Sender, Oil Pressure (Includes Parts Marked *) (E1)	33	505-0324	2	Nipple, Pipe – Half (3/4" x 2")
13	323-1549	1	* Connector, Receptacle – 4 Place	34	505-0132	2	Elbow, Street – 90 Deg (3/4")
14	323-1548	1	* Wedge, Receptacle	35	307-2167	1	Relay, Solenoid – Start (K2)
15	323-1492	4	* Socket, Contact	36	821-0010	2	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
16	309-0641-07	1	Switch, Oil Pressure (Opens at 20 Lbs Descending) (S5 – Pre-Alarm)	37	856-0006	1	Washer, Lock – EIT (1/4")
17	309-0641-03	1	Switch, Oil Pressure (Opens at 14 Lbs Descending) (S1)	38			Line, Fuel – Flexible
18	800-0090	1	Screw, Cap – Hex Head (1/2-13 x 1")				Generator Sets Without Fuel Transfer Pump – Feature Option C174
					501-0520	1	Fuel Out (1/2" ID x 50")
					501-0524	1	Fuel In (5/8" ID x 50")
							Generator Sets With Fuel Transfer Pump – Feature Option C174
					501-0662	1	Fuel In (1" ID x 84" – With 90 Deg Female Swivel)
					501-0652	1	Fuel Out (3/4" ID x 72" – With 90 Deg Female Swivel)
				39	098-3171	1	Tag, Fuel Out
				40	098-3172	1	Tag, Fuel In
				41	502-1275	1	Strainer, Fuel
				42	149-2228	2	Separator, Fuel/Water
				43	098-6099-03	2	Decal, Fuel Filter
				* – Parts Included In 193-0448 Oil Pressure Sender			

External Engine Parts **Generator Sets With Detector Control** **DFLC, DFLD, DFMB Spec K Through L**

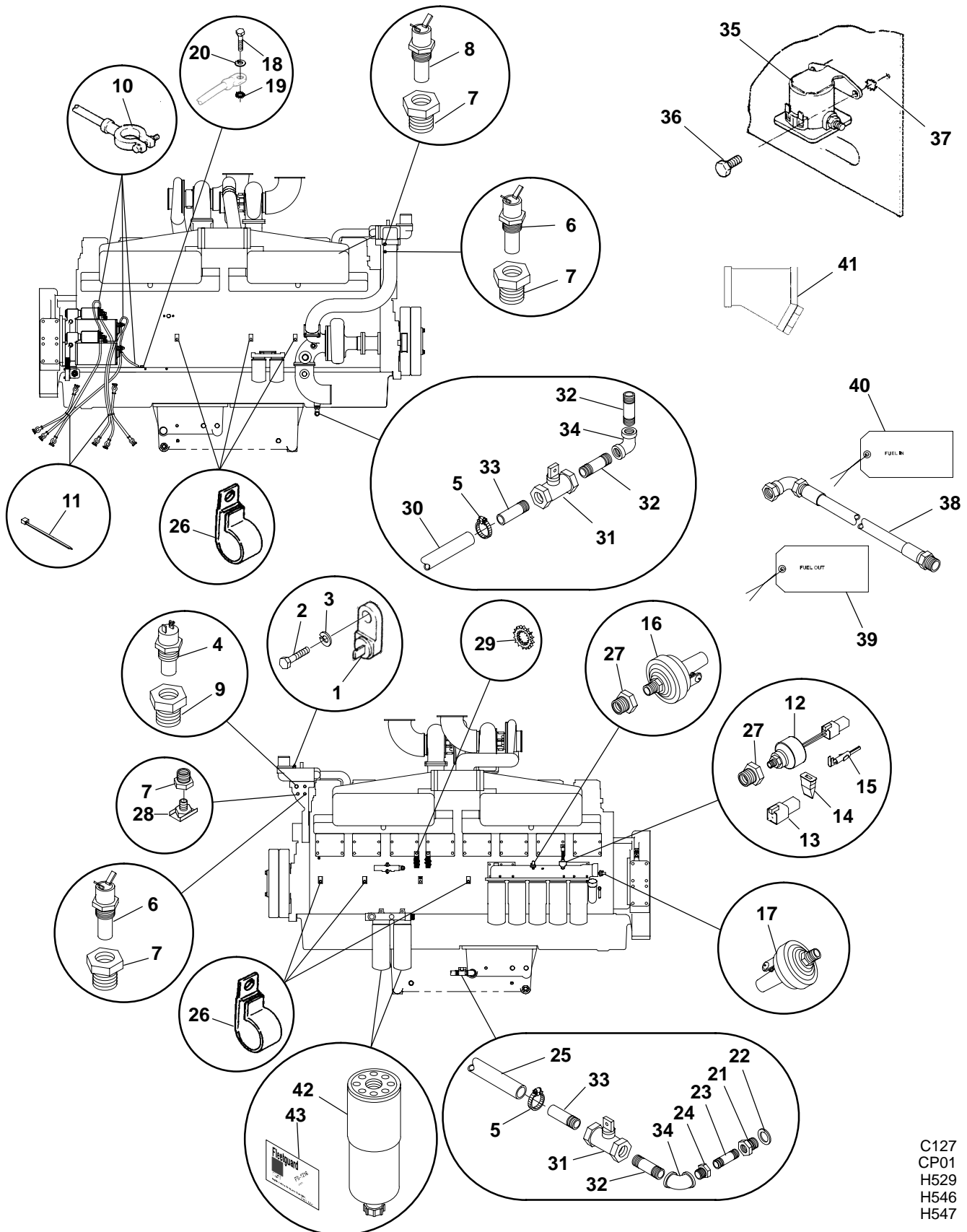


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External Engine Parts
Generator Sets With Detector Control
DFLC, DFLD, DFMB Spec K Through L

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	309-0269	1	Switch, Temperature – Low Engine Coolant (S4)	20	505-0100	1	Nipple, Pipe (1/2" x 1-1/8")
2	800-0062	1	Screw, Cap – Hex Head (3/8-16 x 4")	21	505-0021	2	Bushing, Pipe – Reducer (3/4" to 1/2")
3	850-0050	1	Washer, Lock – Spring (3/8")	22	503-0249	–	Hose – Bulk (1" ID) (Order By The Foot – 3 Feet Required)
4	193-0375	1	Sender, Water Temperature (E2)	23	332-1292	1	Terminal Assembly (Includes Parts Marked *) (T26)
5	503-0189	2	Clamp, Hose	24	332-1281	1	* Bracket, Terminal
6	309-0437	2	Switch, Thermostat – High Engine Coolant Temperature (Opens at 202 Deg F – Closes at 222 Deg F) (S2)	25	809-0036	1	* Screw, Sheet Metal – Round Head (#8 x 7/8")
7	505-0019	5	Bushing, Pipe – Reducer (1/2" to 3/8")	26	508-0015	1	* Washer, Fiber
8	309-0436	2	Switch, Thermostat – High Engine Coolant Temperature (Opens at 196 Deg F – Closes at 216 Deg F) (S6 Pre-Alarm)	27	870-0196	1	* Nut, Insulation
9	505-0021	2	Bushing, Pipe – Reducer (3/4" to 1/2")	28	332-2634	6	Clamp, "J"
10	332-0941	1	Tie, Cable (Quantity Used As Required)	29	505-0007	2	Bushing, Pipe – Reducer (1/4" to 1/8")
11			Cable, Battery	30	504-0028	1	Cock, Drain (3/8")
	416-0680	3	10" – Starters and Engine Ground (With 2 Ring Terminal Ends)	31	856-0010	1	Washer, Lock – EIT (3/8")
	416-0446	2	12-1/2" – Jumper (With Red Colored Battery Boot)	32	503-0249	–	Hose – Bulk (1" ID) (Order By The Foot – 2 Feet Required)
	416-0964	2	35" – Battery To Starter (With 1 Ring End And 1 Bolted End)	33	504-0171	2	Valve, Shutoff
	416-0639	2	60" – Battery To Starter (With 1 Ring End And 1 Bolted End)	34	505-0102	3	Nipple, Pipe (3/4" x 1-3/8")
12	193-0244	1	Sender, Oil Pressure (E1)	35	505-0324	1	Nipple, Pipe – Half (3/4" x 2")
13	309-0641-07	1	Switch, Oil Pressure (Opens at 20 Lbs Descending) (S5 – Pre-Alarm)	36	505-0132	2	Elbow, Street – 90 Deg (3/4")
14	309-0561	1	Switch, Oil Pressure (Opens at 14 Lbs Descending) (S1)	37	307-2167	1	Relay, Solenoid – Start (K2)
15	800-0090	1	Screw, Cap – Hex Head (1/2-13 x 1")	38	821-0010	2	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
16	856-0013	1	Washer, Lock – EIT (1/2")	39	856-0006	1	Washer, Lock – EIT (1/4")
17	850-0060	1	Washer, Lock – Spring (1/2")	40			Line, Fuel – Flexible
18	102-1335	1	Plug, Oil Drain (Special)		501-0520	1	Generator Sets Without Fuel Transfer Pump – Feature Option C174
19	508-0292	1	Washer, Sealing – Copper		501-0524	1	Fuel Out (1/2" ID x 50")
							Fuel In (5/8" ID x 50")
							Generator Sets With Fuel Transfer Pump – Feature Option C174 – Spec L
					501-0662	1	Fuel In (1" ID x 84" – With 90 Deg Female Swivel)
					501-0652	1	Fuel Out (3/4" ID x 72" – With 90 Deg Female Swivel)
				41	098-3171	1	Tag, Fuel Out
				42	098-3172	1	Tag, Fuel In
				43	502-1275	1	Strainer, Fuel – Begin Spec L
				44	149-2228	2	Separator, Fuel/Water
				45	098-6099-03	2	Decal, Fuel Filter

External Engine Parts **Generator Sets With Detector Control** **DFLC, DFLD, DFMB Begin Spec M**



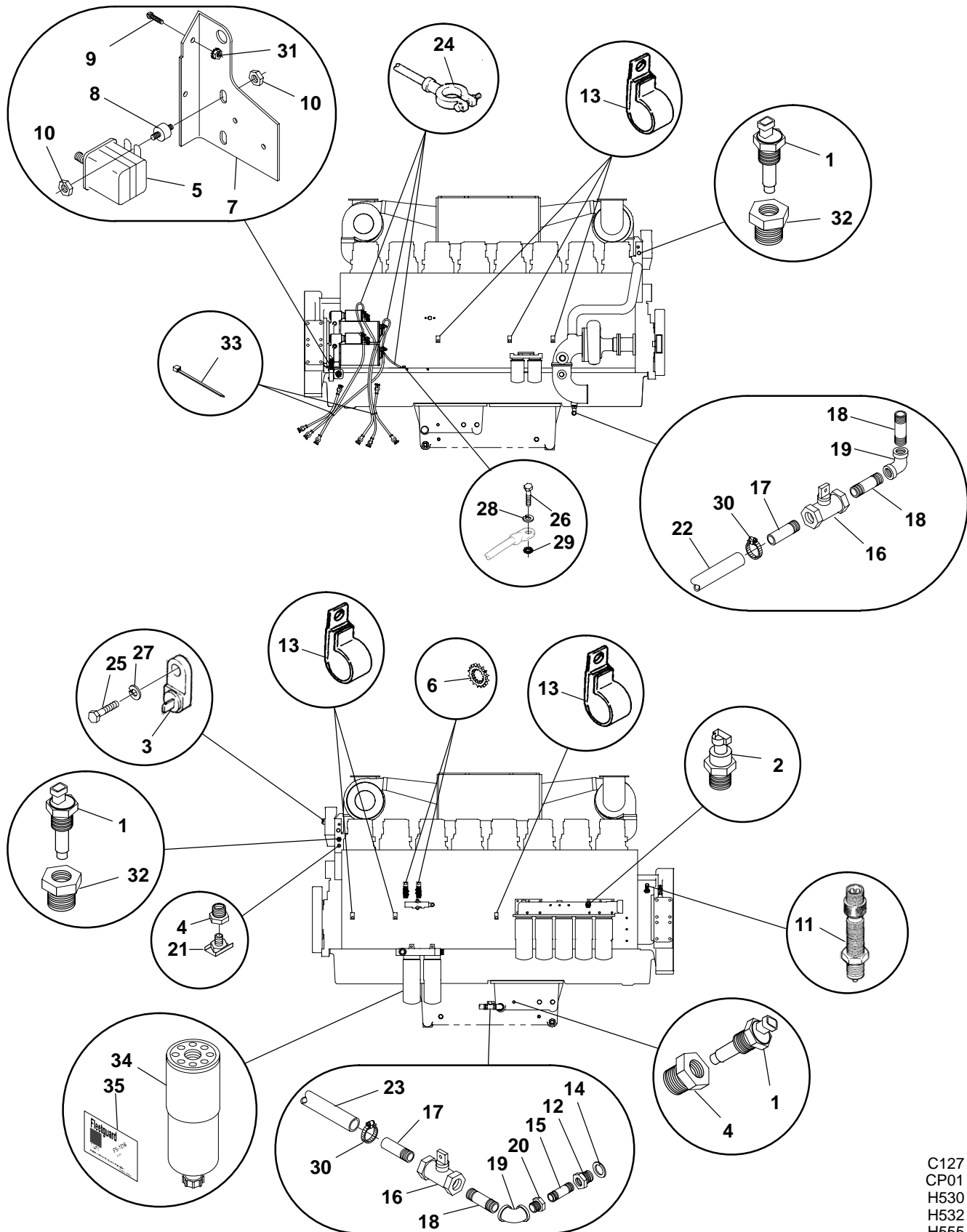
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External Engine Parts
Generator Sets With Detector Control
DFLC, DFLD, DFMB Begin Spec M

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	309-0269	1	Switch, Temperature – Low Engine Coolant (S4)	18	800-0090	1	Screw, Cap – Hex Head (1/2–13 x 1")
2	800-0062	1	Screw, Cap – Hex Head (3/8–16 x 4")	19	856-0013	1	Washer, Lock – EIT (1/2")
3	850-0050	1	Washer, Lock – Spring (3/8")	20	850-0060	1	Washer, Lock – Spring (1/2")
4	193-0447-01	1	Sender, Water Temperature (E2)	21	102-1335	1	Plug, Oil Drain (Special)
5	503-0189	2	Clamp, Hose	22	508-0292	1	Washer, Sealing – Copper
6	309-0576	2	Switch, Thermostat – High Engine Coolant Temperature (Opens at 202 Deg F – Closes at 222 Deg F) (S2)	23	505-0100	1	Nipple, Pipe (1/2" x 1–1/8")
7	505-0019	4	Bushing, Pipe – Reducer (1/2" to 3/8")	24	505-0021	1	Bushing, Pipe – Reducer (3/4" to 1/2")
8	309-0651-02	1	Switch, Thermostat – High Engine Coolant Temperature (Opens at 190 Deg F – Closes at 214 Deg F) (S6 Pre-Alarm)	25	503-0249	–	Hose – Bulk (1" ID) (Order By The Foot – 2 Feet Required)
9	505-0021	1	Bushing, Pipe – Reducer (3/4" to 3/8")	26	332-2634	6	Clamp, "J"
10	416-0680	3	Cable, Battery 10" – Starters and Engine Ground (With 2 Ring Terminal Ends)	27	505-0007	2	Bushing, Pipe – Reducer (1/4" to 1/8")
	416-0446	2	12–1/2" – Jumper (With Red Colored Battery Boot)	28	504-0028	1	Cock, Drain (3/8")
	416-0964	2	35" – Battery To Starter (With 1 Ring End And 1 Bolted End)	29	856-0010	1	Washer, Lock – EIT (3/8")
	416-0639	2	60" – Battery To Starter (With 1 Ring End And 1 Bolted End)	30	503-0249	–	Hose – Bulk (1" ID) (Order By The Foot – 2 Feet Required)
11	332-0941	1	Tie, Cable (Quantity Used As Required)	31	504-0171	2	Valve, Shutoff
12	193-0448	1	Sender, Oil Pressure (Includes Parts Marked *) (E1)	32	505-0102	3	Nipple, Pipe (3/4" x 1–3/8")
13	323-1549	1	* Connector, Receptacle – 4 Place	33	505-0324	1	Nipple, Pipe – Half (3/4" x 2")
14	323-1548	1	* Wedge, Receptacle	34	505-0132	2	Elbow, Street – 90 Deg (3/4")
15	323-1492	4	* Socket, Contact	35	307-2167	1	Relay, Solenoid – Start (K2)
16	309-0641-07	1	Switch, Oil Pressure (Opens at 20 Lbs Descending) (S5 – Pre-Alarm)	36	821-0010	2	Screw, Self-Locking – Hex Washer Head (1/4–20 x 1/2")
17	309-0641-03	1	Switch, Oil Pressure (Opens at 14 Lbs Descending) (S1)	37	856-0006	1	Washer, Lock – EIT (1/4")
				38			Line, Fuel – Flexible
							Generator Sets Without Fuel Transfer Pump – Feature Option C174
					501-0520	1	Fuel Out (1/2" ID x 50")
					501-0524	1	Fuel In (5/8" ID x 50")
							Generator Sets With Fuel Transfer Pump – Feature Option C174
					501-0662	1	Fuel In (1" ID x 84" – With 90 Deg Female Swivel)
					501-0652	1	Fuel Out (3/4" ID x 72" – With 90 Deg Female Swivel)
				39	098-3171	1	Tag, Fuel Out
				40	098-3172	1	Tag, Fuel In
				41	502-1275	1	Strainer, Fuel
				42	149-2228	2	Separator, Fuel/Water
				43	098-6099-03	2	Decal, Fuel Filter

* – Parts Included In 193-0448 Oil Pressure Sender

External Engine Parts **Generator Sets With PowerCommand Control** **DFLB**

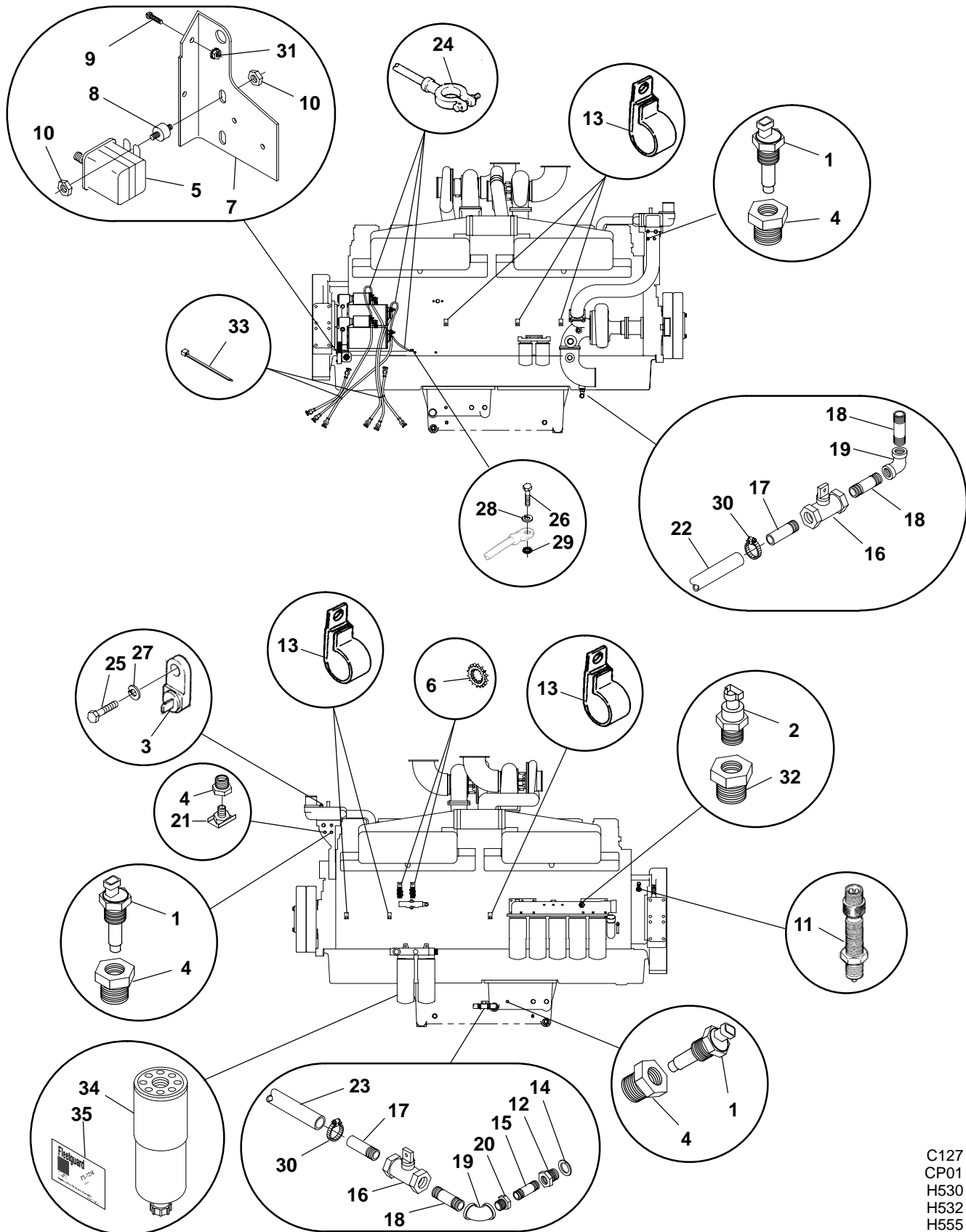


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External Engine Parts
Generator Sets With PowerCommand Control
DFLB

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0432	3	Sender, Oil Temperature (S2 Engine Block, E4 Oil Pan)	24			Cable, Battery
2	193-0444	1	Sender, Oil Pressure (S1)	416-0680	3		10" – Starters and Engine Ground (With 2 Ring Terminal Ends)
3	309-0269	1	Switch, Temperature – Low Engine Coolant (S4)	416-0446	2		12-1/2" – Jumper (With Red Colored Battery Boot)
4	505-0019	2	Bushing, Pipe – Reducer (1/2" to 3/8")	416-0964	2		35" – Battery To Starter (With 1 Ring End And 1 Bolted End)
5	307-2621-02	1	Solenoid, Pilot (K4)	416-0639	2		60" – Battery To Starter (With 1 Ring End And 1 Bolted End)
6	856-0010	2	Washer, Lock – EIT (3/8")	25	800-0061	1	Screw, Cap – Hex Head (3/8-16 x 3-3/4")
7	319-2236	1	Bracket, Mounting	26	800-0090	1	Screw, Cap – Hex Head (1/2-13 x 1")
8	402-0610	2	Isolator, Vibration	27	850-0050	1	Washer, Lock – Spring (3/8")
9	812-0067	2	Screw, Machine – Round Head (#6-32 x 7/8")	28	850-0060	1	Washer, Lock – Spring (1/2")
10	870-0212	4	Nut, Locking (1/4-20)	29	856-0013	1	Washer, Lock – EIT (1/2")
11	151-0411	1	Pickup, Magnetic	30	503-0189	2	Clamp, Hose
12	102-1335	1	Plug, Oil Drain	31	870-0183	2	Nut, Hex – W/ET (#6-32)
13	332-2634	6	Clamp, "J"	32	505-0131	1	Bushing, Pipe – Reducer (3/4" to 3/8")
14	508-0292	1	Washer, Sealing – Copper	33	332-0941	1	Tie, Cable (Quantity Used As Required)
15	505-0100	1	Nipple, Pipe – Close (1/2" x 1-1/8")	34	149-2228	2	Separator, Fuel/Water
16	504-0171	2	Valve, Shutoff	35	098-6099-03	2	Decal, Fuel Filter
17	505-0324	2	Nipple, Pipe – Half (3/4" x 2")				
18	505-0102	3	Nipple, Pipe (3/4" x 1-3/8")				
19	505-0132	2	Elbow, Pipe – 90 Deg (3/4")				
20	505-0021	1	Bushing, Pipe – Reducer (3/4" to 1/2")				
21	504-0028	1	Cock, Drain (3/8")				
22	503-0249	–	Hose – Bulk (1" ID) (Order By The Foot – 2 Feet Required)				
23	503-0249	–	Hose – Bulk (1" ID) (Order By The Foot – 3 Feet Required)				

External Engine Parts **Generator Sets With PowerCommand Control** **DFLC, DFLD, DFMB**

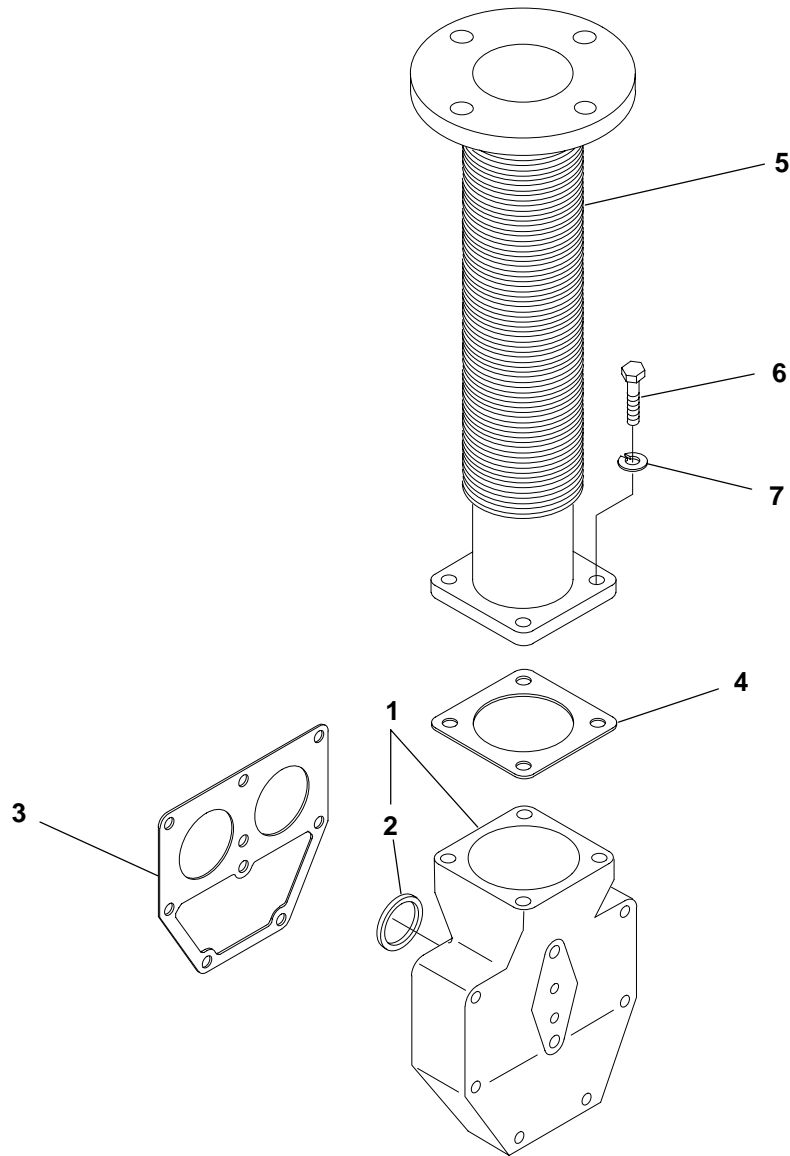


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External Engine Parts
Generator Sets With PowerCommand Control
DFLC, DFLD, DFMB

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0432	3	Sender, Oil Temperature (S2 Engine Block, E4 Oil Pan)	24	416-0680	3	Cable, Battery 10" – Starters and Engine Ground (With 2 Ring Terminal Ends)
2	193-0444	1	Sender, Oil Pressure (S1)				
3	309-0269	1	Switch, Temperature – Low Engine Coolant (S4)	416-0446	2		12-1/2" – Jumper (With Red Colored Battery Boot)
4	505-0019	4	Bushing, Pipe – Reducer (1/2" to 3/8")	416-0964	2		35" – Battery To Starter (With 1 Ring End And 1 Bolted End)
5	307-2621-02	1	Solenoid, Pilot (K4)	416-0639	2		60" – Battery To Starter (With 1 Ring End And 1 Bolted End)
6	856-0010	2	Washer, Lock – EIT (3/8")				
7	319-2236	1	Bracket, Mounting	25	800-0052	1	Screw, Cap – Hex Head (3/8-16 x 3-3/4")
8	402-0610	2	Isolator, Vibration	26	800-0090	1	Screw, Cap – Hex Head (1/2-13 x 1")
9	812-0067	2	Screw, Machine – Round Head (#6-32 x 7/8")	27	850-0050	1	Washer, Lock – Spring (3/8")
10	870-0212	4	Nut, Locking (1/4-20)	28	850-0060	1	Washer, Lock – Spring (1/2")
11	151-0411	1	Pickup, Magnetic	29	856-0013	1	Washer, Lock – EIT (1/2")
12	102-1335	1	Plug, Oil Drain	30	503-0189	2	Clamp, Hose
13	332-2634	6	Clamp, "J"	31	870-0183	2	Nut, Hex – W/ET (#6-32)
14	508-0292	1	Washer, Sealing – Copper	32	505-0007	1	Bushing, Pipe – Reducer (1/4" to 1/8")
15	505-0100	1	Nipple, Pipe – Close (1/2" x 1-1/8")	33	332-0941	1	Tie, Cable (Quantity Used As Required)
16	504-0171	2	Valve, Shutoff	34	149-2228	2	Separator, Fuel/Water
17	505-0324	2	Nipple, Pipe – Half (3/4" x 2")	35	098-6099-03	2	Decal, Fuel Filter
18	505-0102	3	Nipple, Pipe (3/4" x 1-3/8")				
19	505-0132	2	Elbow, Pipe – 90 Deg (3/4")				
20	505-0021	1	Bushing, Pipe – Reducer (3/4" to 1/2")				
21	504-0028	1	Cock, Drain (3/8")				
22	503-0249	–	Hose – Bulk (1" ID) (Order By The Foot – 2 Feet Required)				
23	503-0249	–	Hose – Bulk (1" ID) (Order By The Foot – 3 Feet Required)				

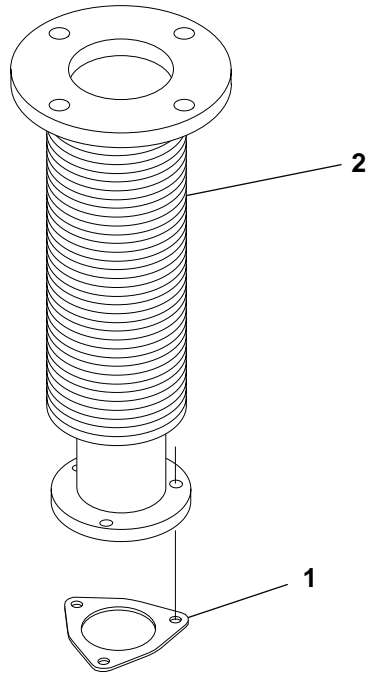
Water Outlet DFLB



E080

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	309-0612	2	Housing, Thermostat (Includes Seals – Ref No. 2)	5	130-3686	2	Tube, Water Outlet
2	309-0613	4	Seal, Thermostat	6	800-0051	8	Screw, Cap – Hex Head (3/8-16 x 1-1/4")
3	130-3679	2	Gasket, Thermostat Housing	7	850-0050	8	Washer, Lock – Spring (3/8")
4	130-3680	2	Gasket, Connection				

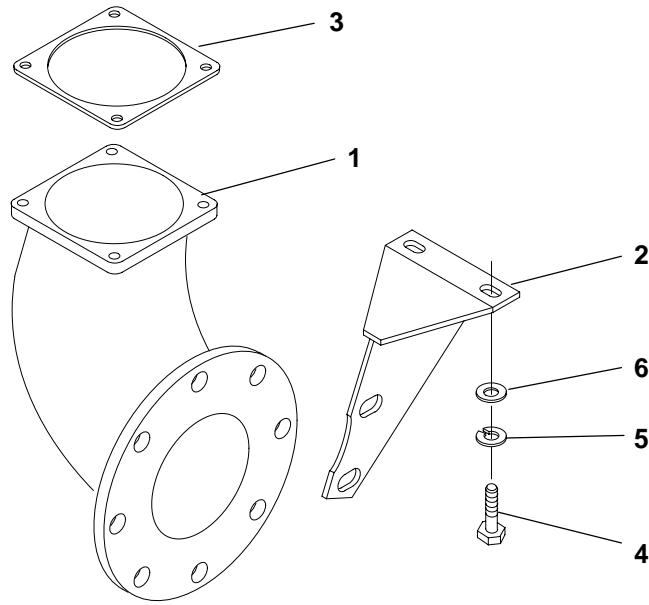
Water Outlet **DFLC, DFLD, DFMB**



E080

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3684	2	Gasket, Connection	2	130-3687	2	Tube, Water Outlet

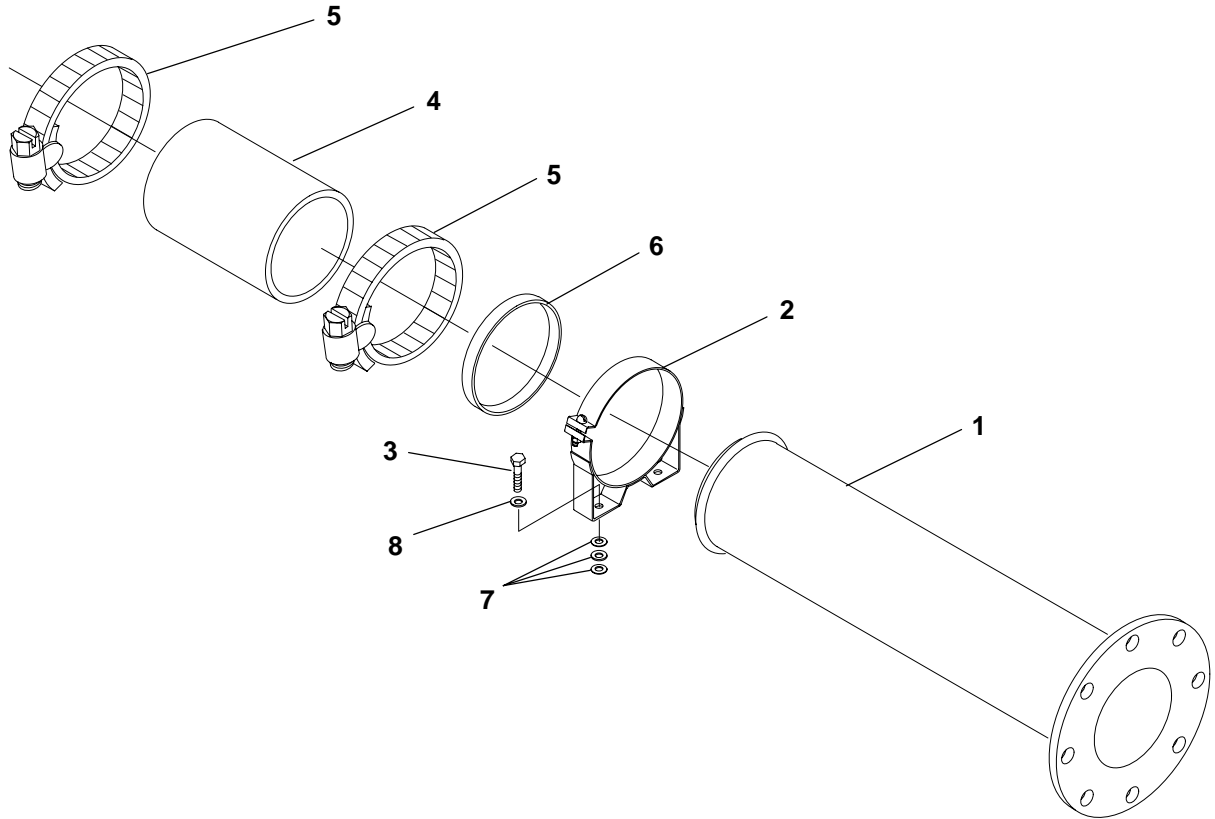
Water Inlet
DFLB, DFCL, DFLD, DFMB Spec K Through L



E080

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3681	1	Connection, Water Inlet	5	850-0060	2	Washer, Lock – Spring (1/2")
2	130-3682	1	Brace, Connection	6	526-0028	2	Washer, Flat (1/2")
3	130-3685	1	Gasket				
4	800-0091	2	Screw, Cap – Hex Head (1/2-13 x 1-1/4")				

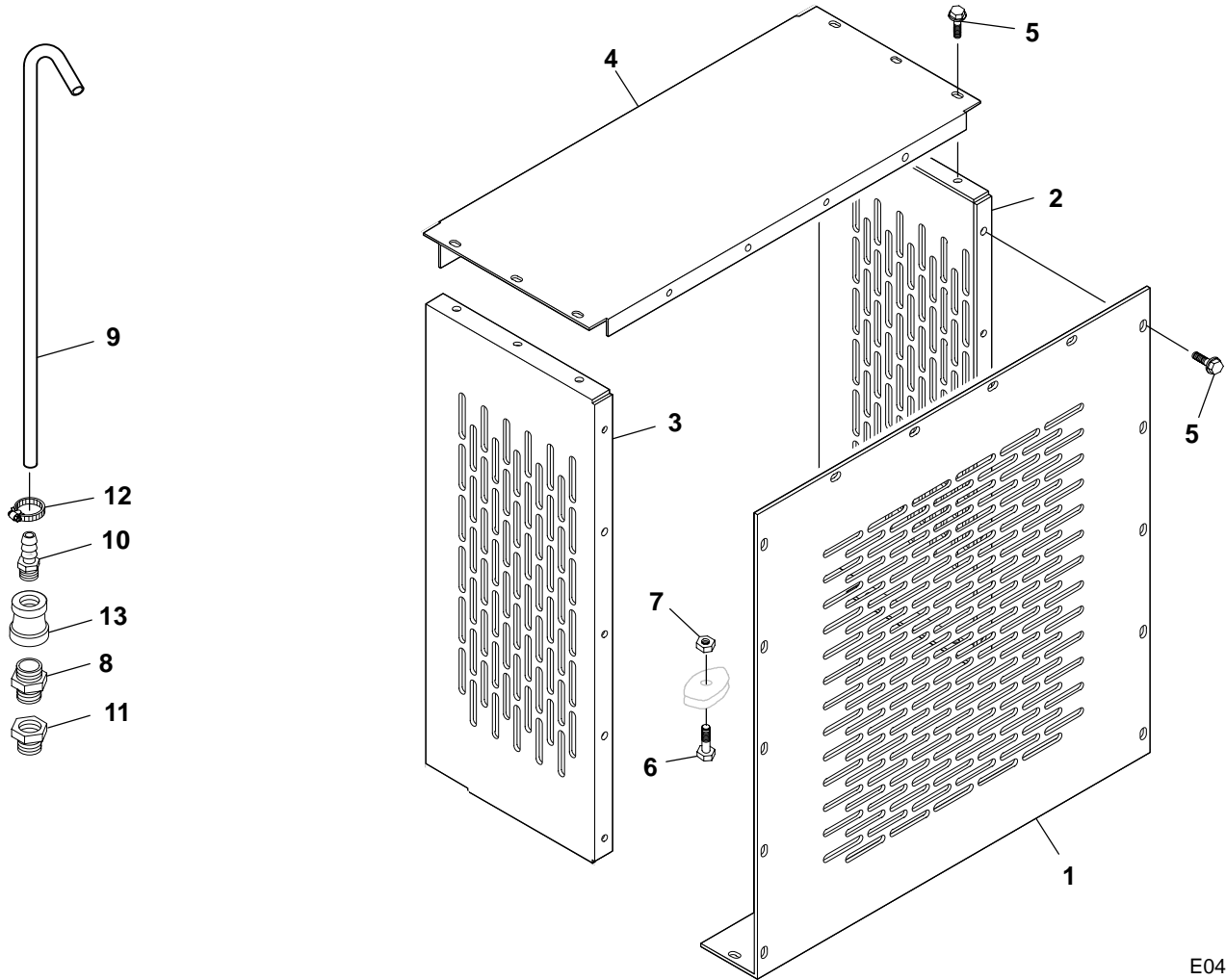
Water Inlet
DFLB, DFLL, DFLD, DFMB Begin Spec M



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REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4517	1	Tube, Water Inlet	6	895-0182	—	Stripping, Weather – Bulk (1/4" Thk x 3/4" Wide) (Order By The Foot – 2 Feet Required)
2	140-0519	1	Band, Mounting	7			Washer, Flat (15/32" ID x 1-1/2" OD x 1/4" Thk)
3			Screw, Cap – Hex Head				
	800-0006	2	Generator Sets with Standby Power (1/4-20 x 7/8")				
	800-0009	2	Generator Sets with Prime Power (1/4-20 x 1-1/2")	526-0128	6		Generator Sets With Standby Power
4	503-1726	1	Hose (5" ID x 6")	526-0128	10		Generator Sets With Prime Power
5	503-1872-10	2	Clamp, Hose	8	526-0015	2	Washer, Flat (1/4")

Damper Guard
Sets with Remote Radiator or Heat Exchanger
DFLB Spec K Through N, DFLLC, DFLD, DFMB



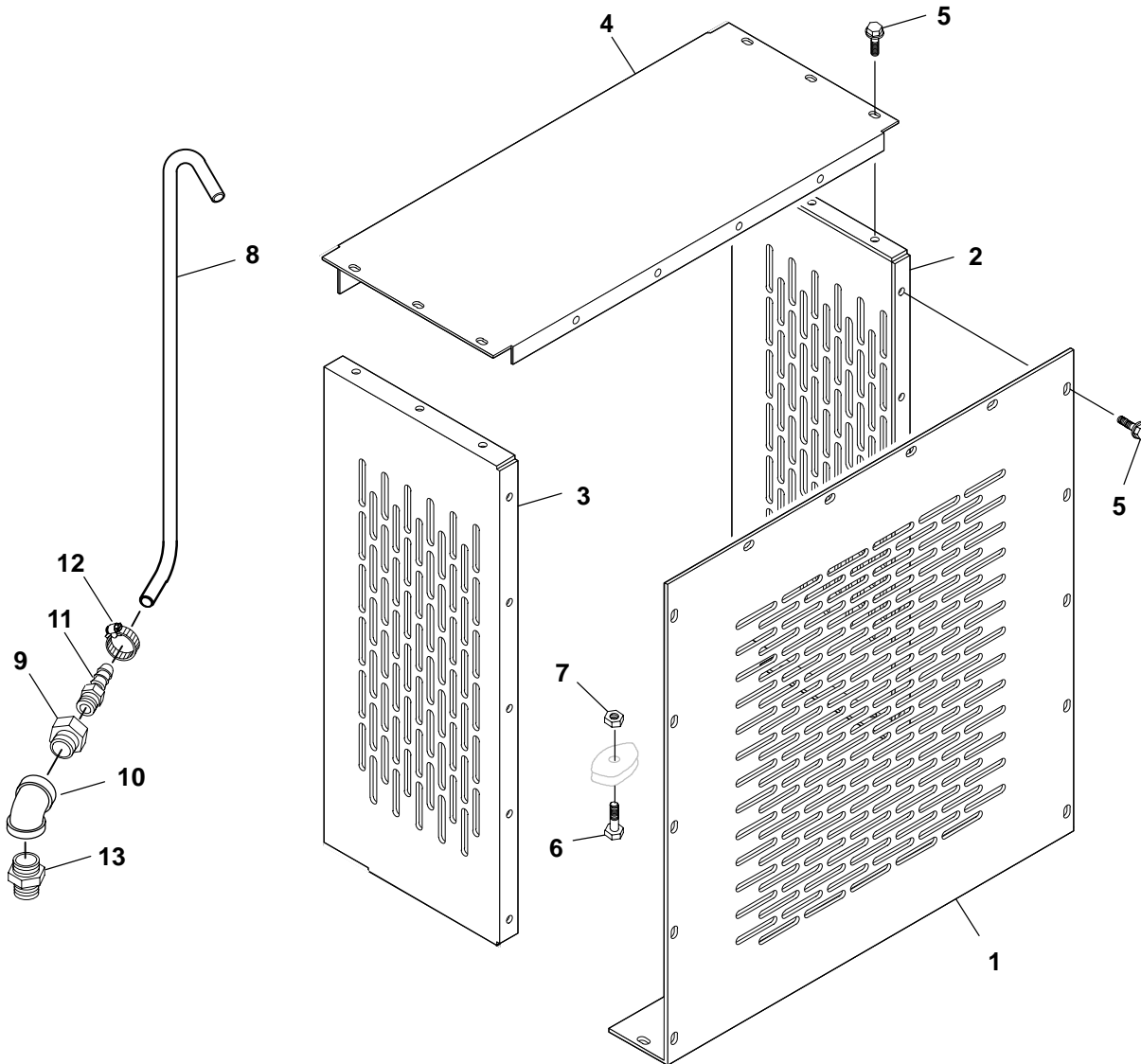
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Damper Guard
Sets with Remote Radiator or Heat Exchanger
DFLB Spec K Through N, DFLC, DFLD, DFMB

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3715	1	Cover, Damper Guard	10			* Connector, Hose (3/8")
2	130-3714-01	1	Guard, Damper – Right Side		502-1162	2	DFLB, DFLB, DFLC, DFMB Spec K Through R
3	130-3714-02	1	Guard, Damper – Left Side				DFLC, DFMB Begin Spec S
4	130-3713	1	Guard, Damper – Top		502-1162	3	* Bushing, Pipe – Reducer 1/2" to 1/4"
5	821-5002-03	22	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	11	505-0018	2	DFLB, DFLD, DFLC, DFMB Spec K Through R
6	821-5004-03	2	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")				DFLC, DFMB Begin Spec S (3/8" to 1/4")
7	870-0281	2	Nut, Self-Locking – Hex Washer Head (3/8-16)		505-0017	2	* Clamp, Hose DFLB, DFLD, DFLC, DFMB Spec K Through R
8			* Valve, Check	12			DFLC, DFMB Begin Spec S
	309-0635-02	2	DFLB, DFLD, DFLC, DFMB Spec K Through R		503-0685	2	* Coupling, Pipe – Reducer (3/8" x 1/4")
	309-0635-02	3	DFLC, DFMB Begin Spec S		503-0685	3	DFLB, DFLD, DFLC, DFMB Spec K Through R
9	503-1620	–	* Hose – Bulk (3/8" ID) (Order by the Foot) DFLB, DFLD – 5 Feet Required DFLC, DFMB Spec K Through R – 5 Feet Required, Begin Spec S – 8 Feet Required	13			DFLC, DFMB Begin Spec S
					505-0153	2	
					505-0153	3	

* – Parts used on sets with Remote Radiator

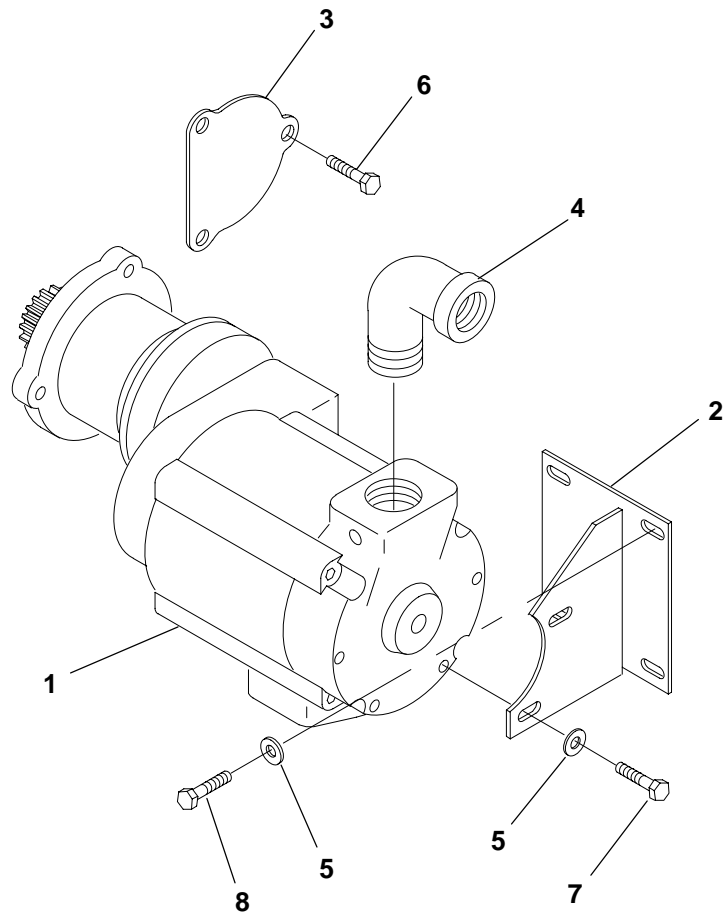
Damper Guard
Sets with Remote Radiator or Heat Exchanger
DFLB Begin Spec P



E043

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3715	1	Cover, Damper Guard	8	503-1620	—	* Hose – Bulk (3/8" ID) (Order by the Foot – 5 Feet Required)
2	130-3714-01	1	Guard, Damper – Right Side	9	505-0017	2	* Bushing, Pipe – Reducer (3/8" to 1/4")
3	130-3714-02	1	Guard, Damper – Left Side	10	505-0376	2	* Elbow – 45 Deg (3/8")
4	130-3713	1	Guard, Damper – Top	11	502-1162	2	* Connector, Hose (3/8")
5	821-5002-03	22	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	12	503-0685	2	* Clamp, Hose
6	821-5004-03	2	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")	13	309-0635-02	2	* Valve, Check
7	870-0281	2	Nut, Self-Locking – Hex Washer Head (3/8-16)				* – Parts used on sets with Remote Radiator

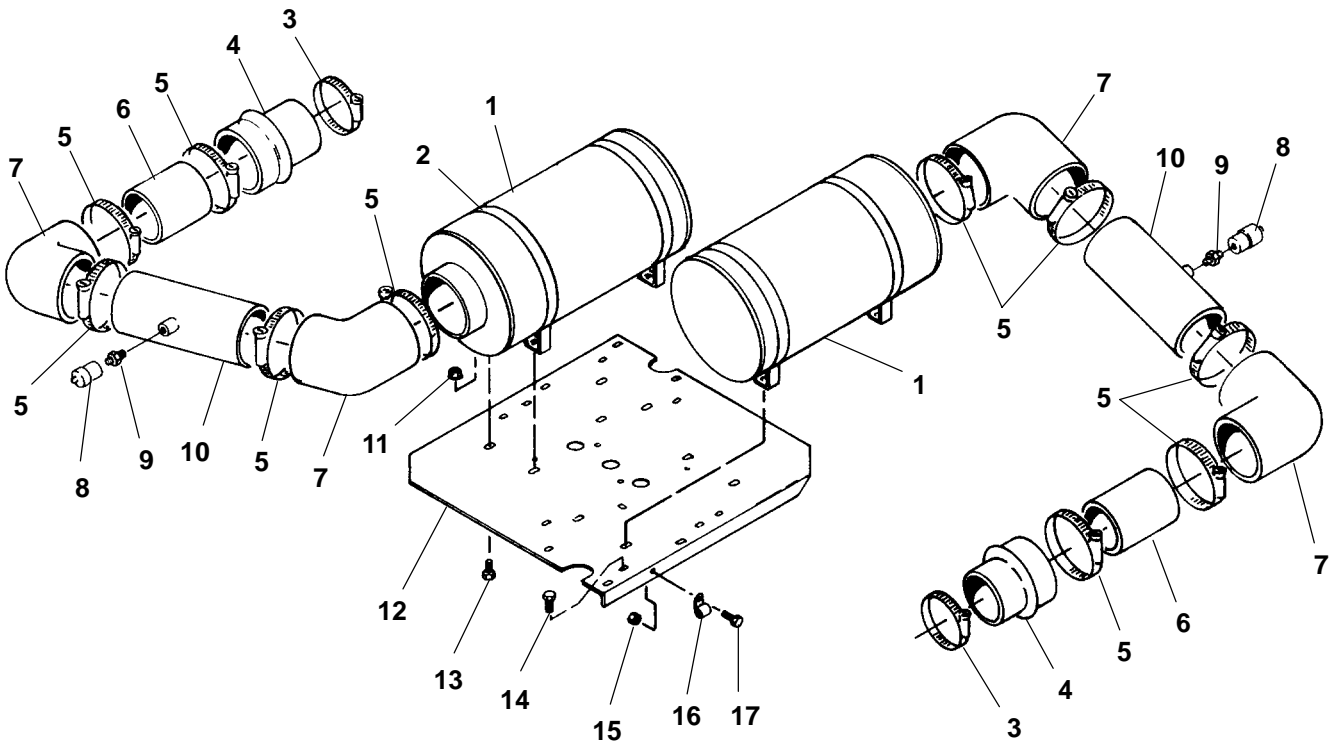
Air Starter



A300

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	127-0390-01	1	Starter, Air	7	800-2526	2	Screw, Cap – Hex Head (M10 x 20)
2	127-0395	1	Brace, Starter Motor	8	815-0724	4	Screw, Cap – Hex Head (3/8-16 x 1.25)
3	127-0422	1	Cover, Flange – Starter				
4	502-1054-08	1	Elbow, Street Pipe – 90°				
5	526-0030	6	Washer, Flat (13/32)				
6	800-0130	3	Screw, Cap – Hex Head (5/8-11 x 1.00)				

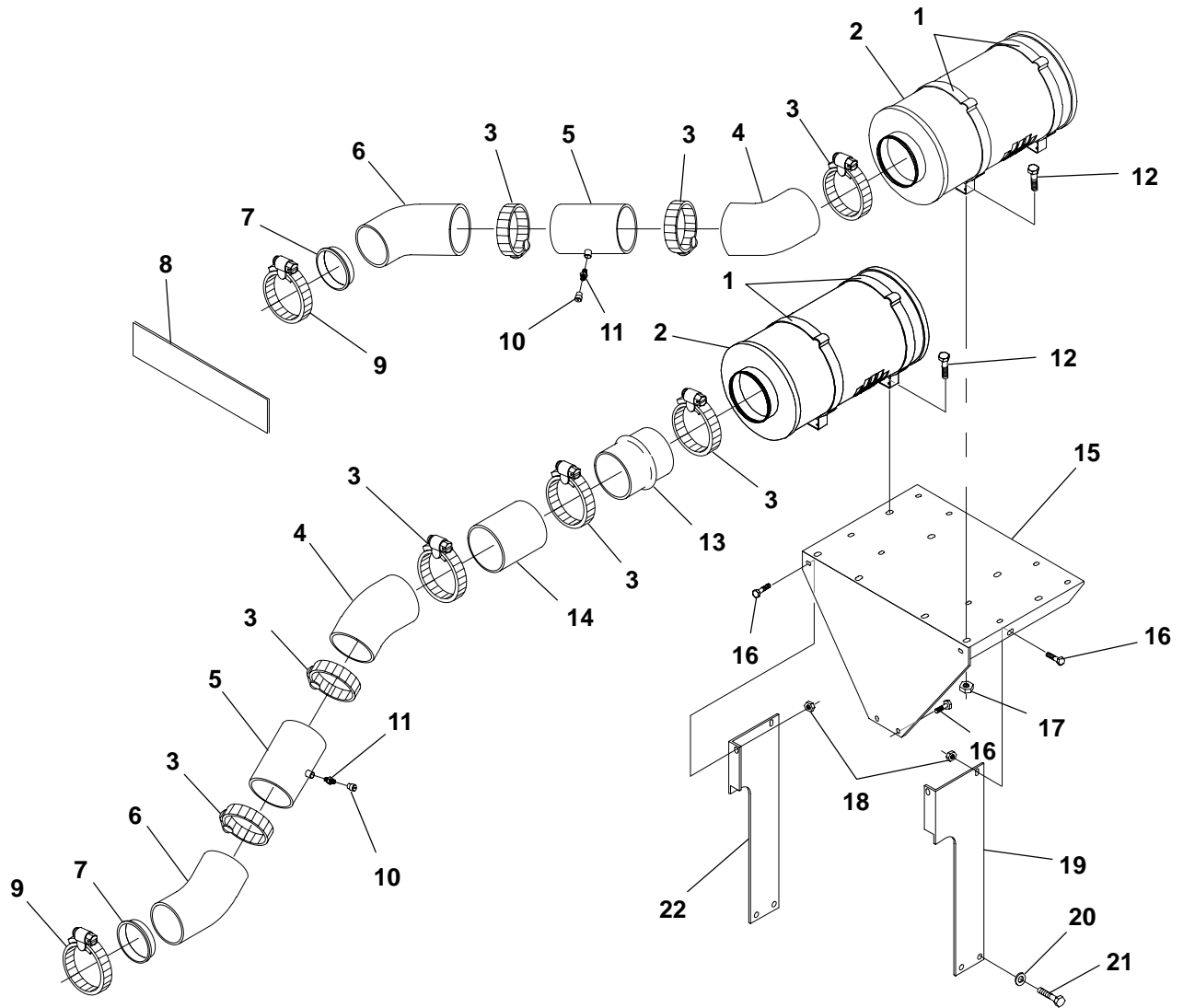
Air Cleaner Standard DFLB



D041

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2501	2	Cleaner, Air (Disposable)	12	140-2515	1	Bracket, Mounting
2	140-2502	4	Band, Mounting	13	821-0029	8	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")
3	503-1870-11	2	Clamp, Hose	14	821-0033	8	Screw, Self-Locking – Hex Washer Head (7/16-14 x 3/4")
4	503-1675	2	Hose, Rubber – Reducer (7" ID to 5-1/2" ID)	15	870-0257	2	Nut, Hex – Locking (5/16-18)
5	503-1870-14	10	Clamp, Hose	16	518-0548-08	2	Clamp, "J"
6	140-2519	2	Tube, Air Inlet (7" x 9")	17	821-0016	2	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
7	503-0970	4	Elbow (90 Deg)				
8	140-1548	2	Indicator, Service				
9	140-1260	2	Fitting, Safety Filter				
10	140-2521	2	Tube, Air Inlet				
11	870-0281	8	Nut, Hex – Locking (3/8-16)				

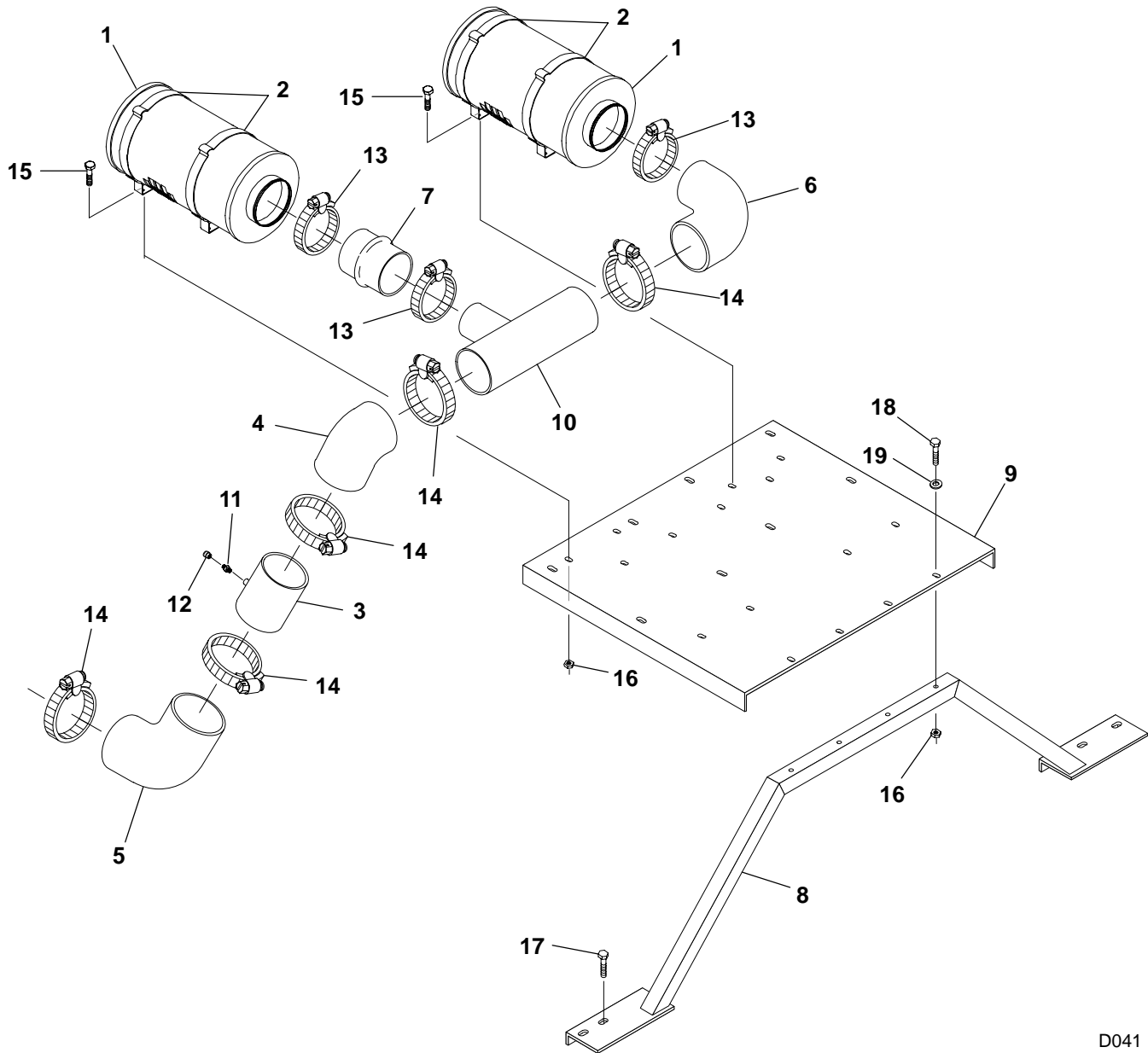
Air Cleaner Standard DFLC, DFLD



D041

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2502	4	Band, Mounting – Air Cleaner	13	503-1705	1	Hose, Hump (7" ID)
2	140-2501	2	Cleaner, Air (Disposable)	14	140-2519	1	Tube, Air Inlet (7" x 9")
3	503-1870-14	8	Clamp, Hose	15	140-2503	1	Bracket, Mounting
4	503-1484	2	Elbow, Hose (45 Deg) (7" ID)	16	821-0033	6	Screw, Self-Locking – Hex Washer Head (7/16-14 x 3/4")
5	140-2508	2	Tube, Air Inlet (7" x 9-3/4")	17	870-0281	8	Nut, Locking – Hex (3/8-16)
6	503-1717	2	Elbow, Reducer (45 Deg) (7" ID to 6" ID)	18	870-0437	4	Nut, Locking – Hex (7/16-14)
7	503-1720	2	Insert, Reducer (6" OD to 5-1/2" ID)	19	140-2504-01	1	Bracket, Mounting (Right Side)
8	140-2528	1	Shield – Air In Heat	20	850-0079	4	Washer, Lock – Spring (3/4")
9	503-1870-12	2	Clamp, Hose	21	800-0152	4	Screw, Cap – Hex Head (3/4-10 x 1-1/4")
10	140-1548	2	Indicator, Service	22	140-2504-02	1	Bracket, Mounting (Left Side)
11	140-1260	2	Fitting, Safety Filter				
12	821-0029	8	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")				

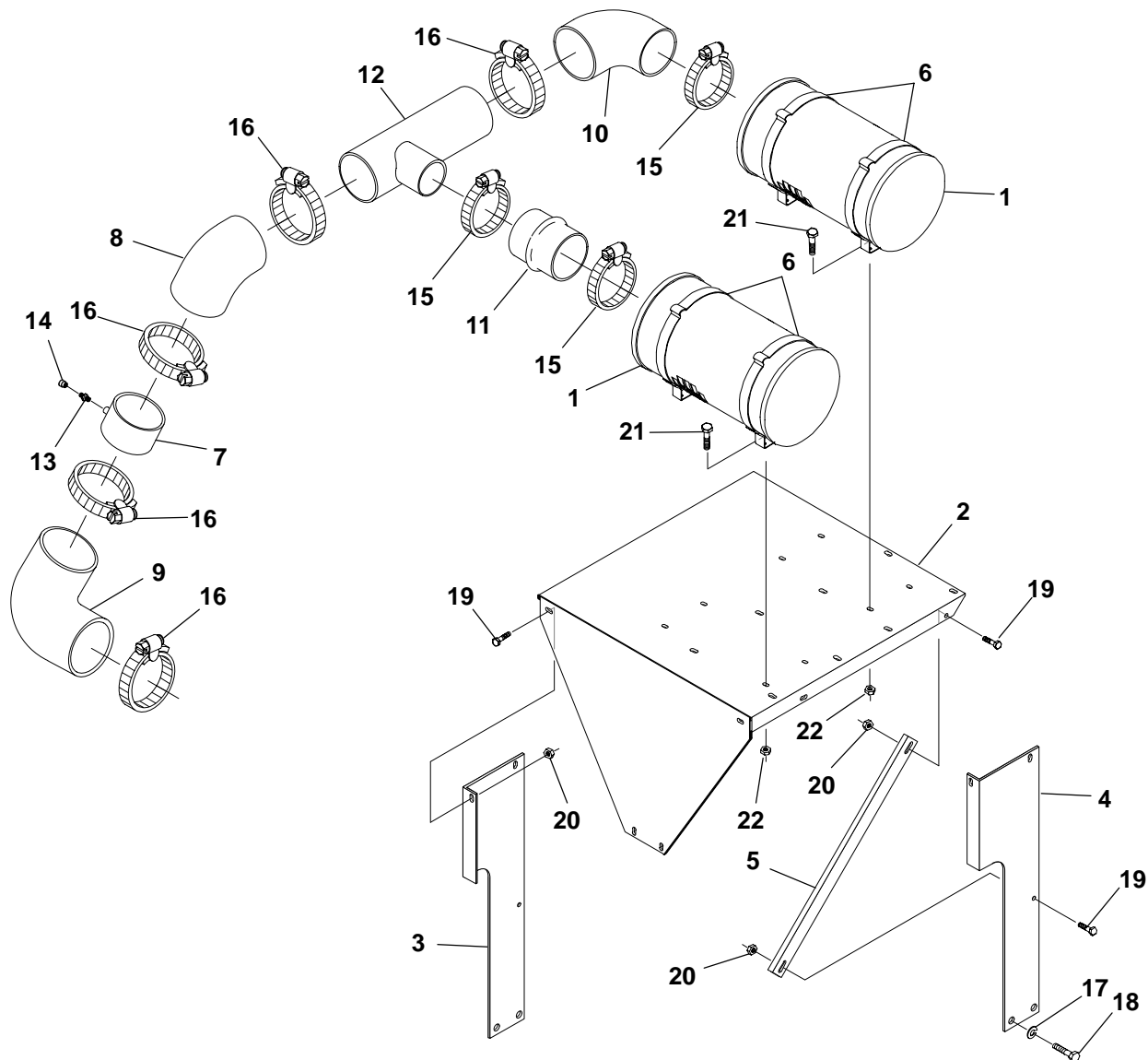
Air Cleaner, Front Standard DFMB



D041

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2501	2	Cleaner, Air (Disposable)	12	140-1548	1	Indicator, Service
2	140-2502	4	Band, Mounting – Air Cleaner	13	503-1870-14	3	Clamp, Hose
3	140-2561	1	Tube, Air Inlet (10" OD)	14	503-1871-04	5	Clamp, Hose
4	503-1755	1	Elbow, Hose (63 Deg) (8" ID)	15	821-0029	8	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")
5	503-1756	1	Elbow, Hose (90 Deg) (8" ID)	16	870-0281	16	Nut, Locking – Hex (3/8-16)
6	503-1485	1	Elbow, Reducing (90 Deg) (8" ID to 7" ID)	17	800-0094	8	Screw, Cap – Hex Head (1/2-13 x 2")
7	503-1705	1	Hose, Hump (7" ID)	18	800-0055	8	Screw, Cap – Hex Head (3/8-16 x 2-1/4")
8	140-2548	2	Bracket, Air Cleaner	19	526-0030	8	Washer, Flat (3/8")
9	140-2547	1	Plate, Air Cleaner Mounting				
10	140-2553	1	Manifold, Air Cleaner				
11	140-1260	1	Fitting, Safety Filter				

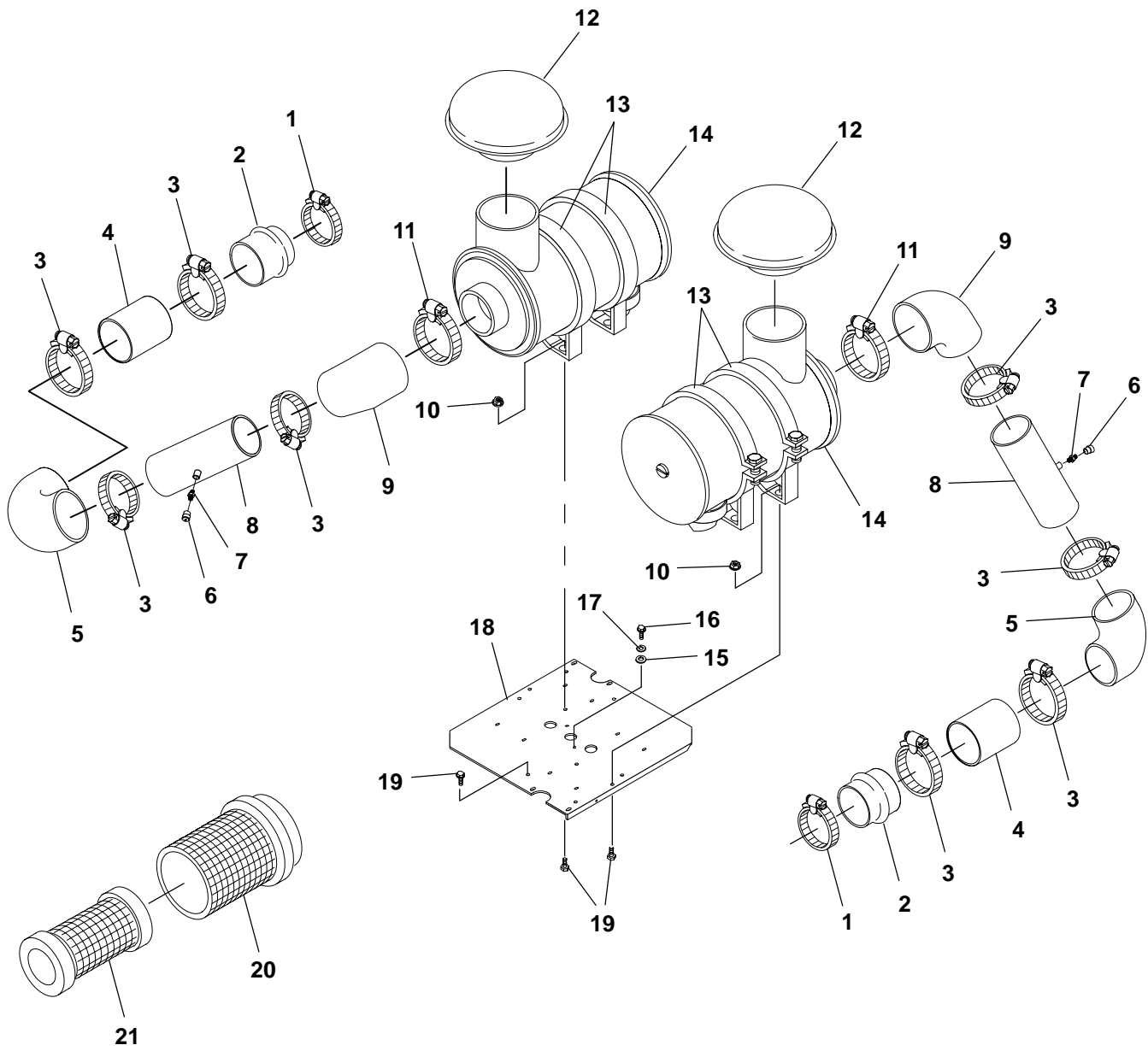
Air Cleaner, Rear Standard DFMB



D041

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2501	2	Cleaner, Air (Disposable)	13	140-1260	1	Fitting, Safety Filter
2	140-2545	1	Bracket, Air Cleaner Mounting	14	140-1548	1	Indicator, Service
3	140-2544-01	1	Bracket, Air Cleaner Mounting – Right Side	15	503-1870-14	3	Clamp, Hose
4	140-2544-02	1	Bracket, Air Cleaner Mounting – Left Side	16	503-1871-04	5	Clamp, Hose
5	140-2546	2	Angle, Air Cleaner Mounting	17	850-0079	4	Washer, Lock – Spring (3/4")
6	140-2502	4	Band, Mounting – Air Cleaner	18	800-0152	4	Screw, Cap – Hex Head (3/4-10 x 1-1/4")
7	140-2554	1	Tube, Air Inlet (5" OD)	19	821-0033	8	Screw, Self-Locking – Hex Washer Head (7/16-14 x 3/4")
8	503-1755	1	Elbow, Hose (63 Deg) (8" ID)	20	870-0437	8	Nut, Locking – Hex (7/16-14)
9	503-1756	1	Elbow, Hose (90 Deg) (8" ID)	21	821-0029	8	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")
10	503-1485	1	Elbow, Reducing (90 Deg) 1(8" ID to 7" ID)	22	870-0281	8	Nut, Locking – Hex (3/8-16)
11	503-1705	2	Hose, Hump (7" ID)				
12	140-2553	1	Manifold, Air Cleaner				

Air Cleaner Heavy Duty DFLB

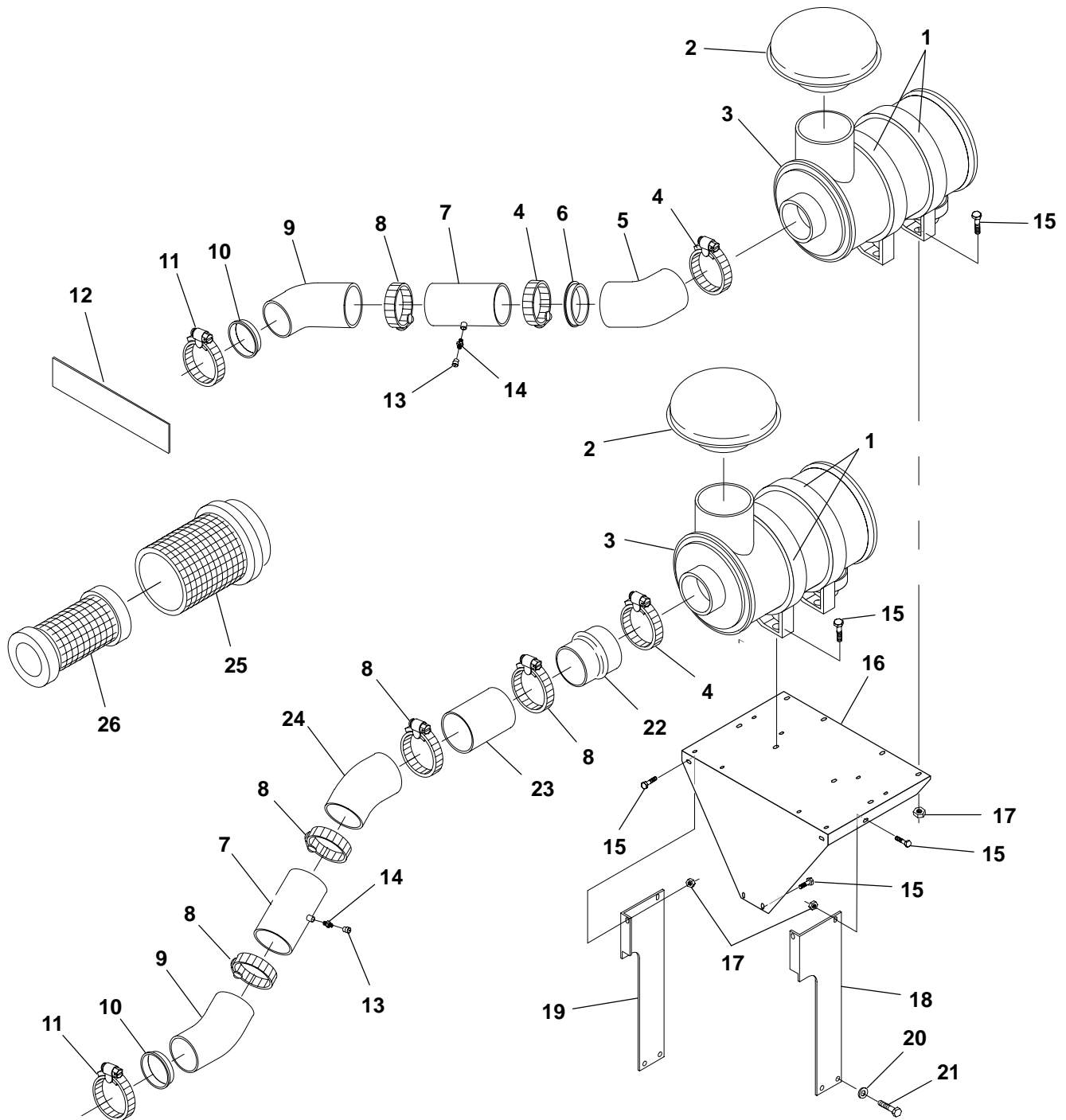


D036

**Air Cleaner
Heavy Duty
DFLB**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-1870-11	2	Clamp, Hose	13	140-2099	4	Band, Mounting
2	503-1675	2	Hose, Rubber – Reducer (7" ID to 5-1/2" ID)	14	140-2097	2	Cleaner, Air (Includes Elements)
3	503-1870-14	8	Clamp, Hose	15	526-0219	2	Washer, Flat (7/16")
4	140-2519	2	Tube, Air Inlet (7" x 9")	16	850-0055	2	Washer, Lock – Spring (7/16")
5	503-0970	2	Elbow (90 Deg)	17	800-0072	2	Screw, Cap – Hex Head (7/16-14 x 1-1/4")
6	140-1548	2	Indicator, Service	18	140-2515	1	Bracket, Mounting
7	140-1260	2	Fitting, Safety Filter	19	821-0033	14	Screw, Self-Locking – Hex Washer Head (7/16-14 x 3/4")
8	140-2521	2	Tube, Air Inlet (7" x 18-1/2")				Element, Primary (Outer)
9	503-1485	2	Elbow, Reducer (90 Deg) (8" ID to 7" ID)	20	140-2096	2	Element, Safety (Inner)
10	870-0437	8	Nut, Hex – Locking (7/16-14)	21	140-2467	2	
11	503-1871-04	2	Clamp, Hose				
12	140-2098	2	Hood, Air Inlet (Includes Mounting Clamp)				

Air Cleaner Heavy Duty DFLC, DFLD

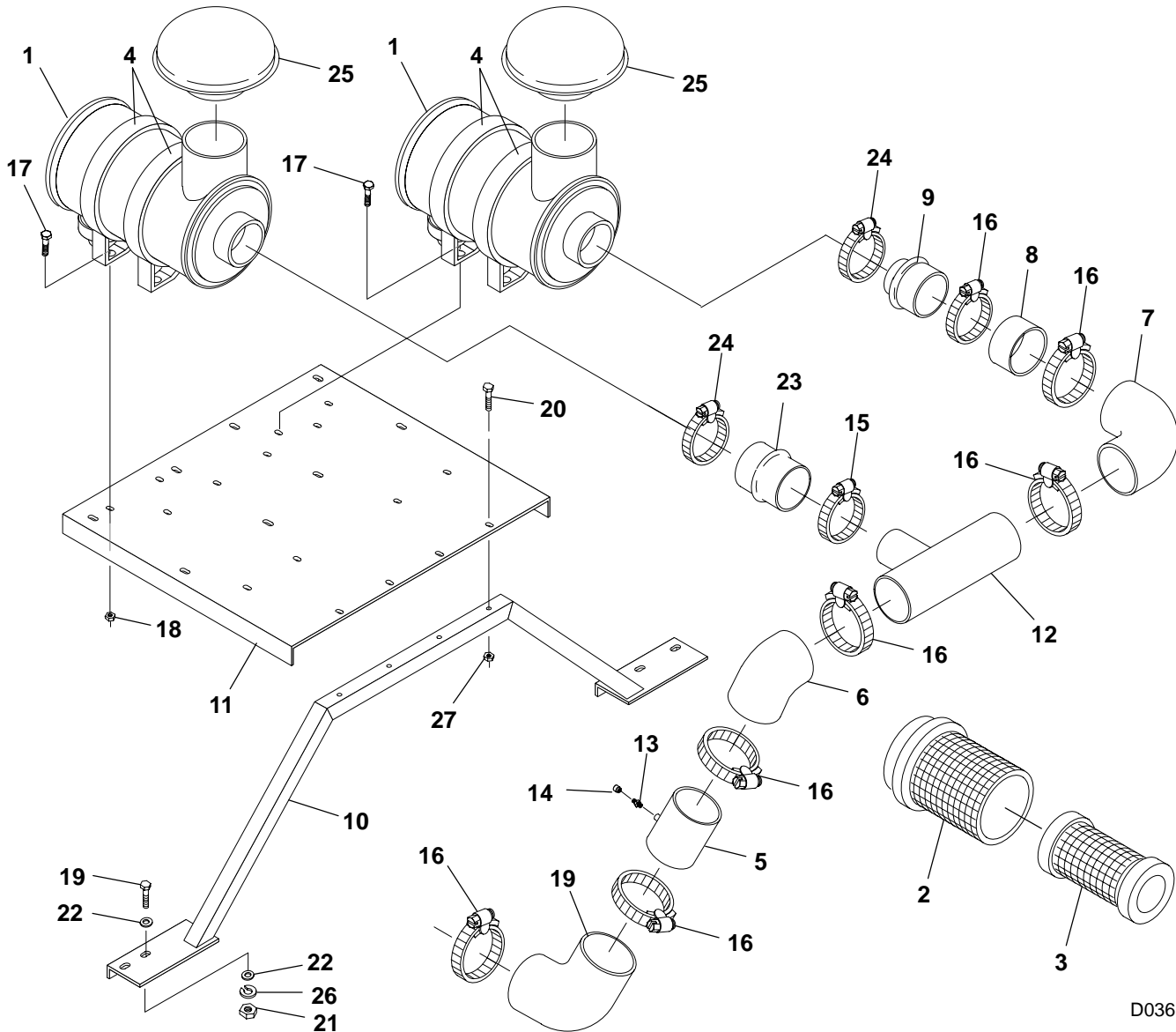


D036

**Air Cleaner
Heavy Duty
DFLC, DFLD**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2099	4	Band, Mounting	14	140-1260	2	Fitting, Safety Filter
2	140-2098	2	Hood, Air Inlet (Includes Mounting Clamp)	15	821-0033	14	Screw, Self-Locking – Hex Washer Head (7/16-14 x 3/4")
3	140-2097	2	Cleaner, Air (Includes Elements – See Ref. No. 25 and 26)	16	140-2503	1	Bracket, Mounting
4	503-1871-04	3	Clamp, Hose	17	870-0437	12	Nut, Locking – Hex (7/16-14)
5	503-1718	1	Elbow, Hose (45 Deg) (8" ID)	18	140-2504-01	1	Bracket – Right Side
6	503-1719	1	Insert, Reducer (8" OD to 7" ID)	19	140-2504-02	1	Bracket – Left Side
7	140-2509	2	Tube, Air Inlet (7" OD x 12")	20	850-0079	4	Washer, Lock – Spring (3/4")
8	503-1870-14	5	Clamp, Hose	21	800-0152	4	Screw, Cap – Hex Head (3/4-10 x 1-1/4")
9	503-1717	2	Elbow, Reducer (45 Deg) (7" ID to 6" ID)	22	503-1721	1	Hose, Hump – Reducer (8" ID to 7" ID)
10	503-1720	2	Insert, Reducer (6" OD to 5-1/2" ID)	23	140-2395-01	1	Tube, Air Inlet (7" OD x 10-1/2")
11	503-1870-12	2	Clamp, Hose	24	503-1484	1	Elbow, Hose (45 Deg) (7" ID)
12	140-2528	1	Shield	25	140-2096	2	Element, Primary (Outer)
13	140-1548	2	Indicator, Service	26	140-2467	2	Element, Safety (Inner)

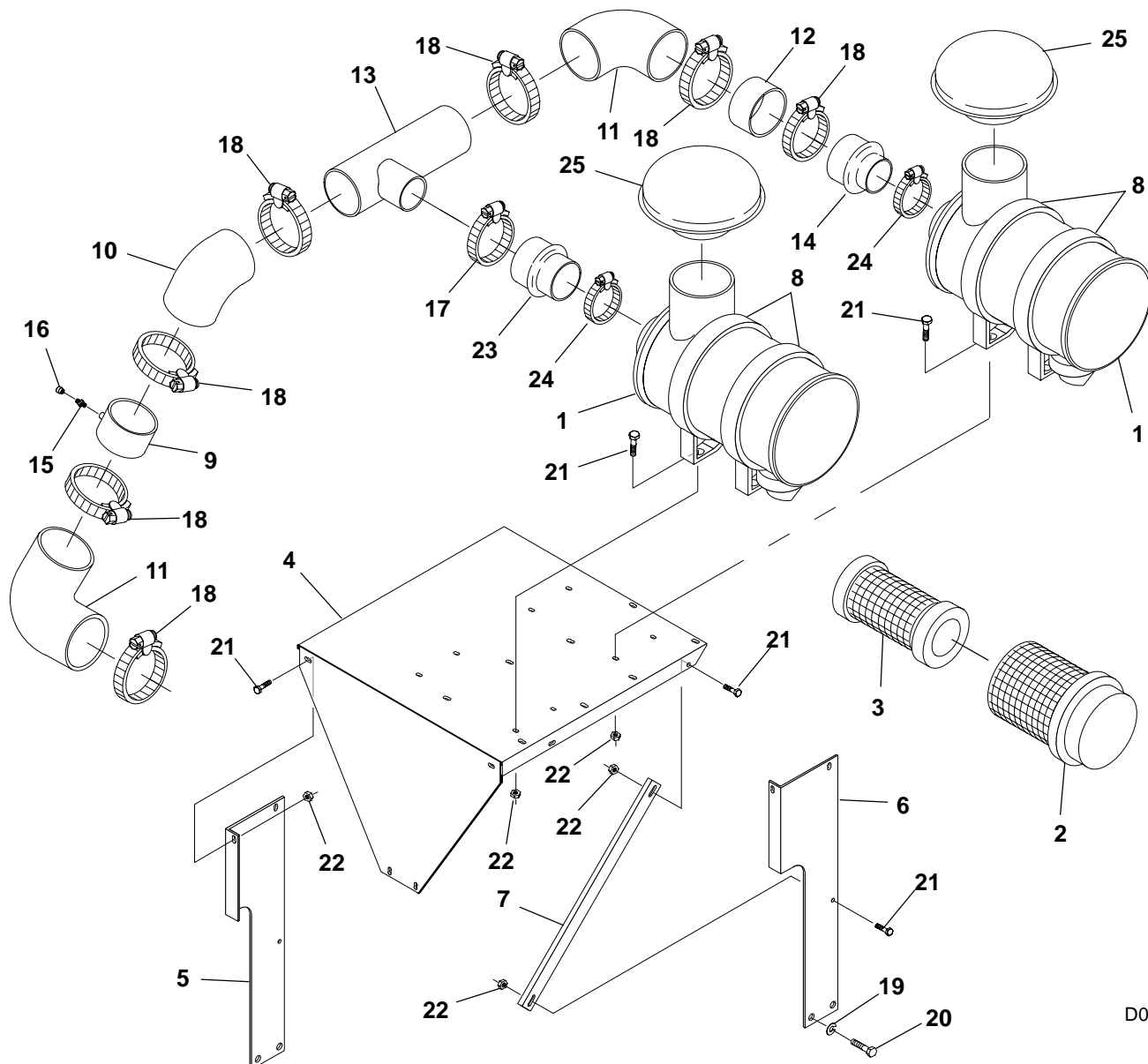
Air Cleaner, Front Heavy Duty DFMB



D036

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2301	2	Cleaner, Air (Includes Elements – Ref No. 2 and 3)	16	503-1871-04	7	Clamp, Hose
2	140-2465	2	Element, Primary (Outer)	17	821-0033	8	Screw, Self-Locking – Hex Washer Head (7/16-14 x 3/4")
3	140-2466	2	Element, Safety (Inner)	18	870-0437	8	Nut, Locking – Hex (7/16-14)
4	140-2052	4	Band, Mounting – Air Cleaner	19	800-0094	8	Screw, Cap – Hex Head (1/2-13 x 2")
5	140-2562	1	Tube, Air Inlet (11.63" OD)	20	800-0055	8	Screw, Cap – Hex Head (3/8-16 x 2-1/4")
6	503-1755	1	Elbow, Hose (63 Deg) (8" ID)	21	862-0016	8	Nut, Hex (1/2-13)
7	503-1756	1	Elbow, Hose (90 Deg) (8" ID)	22	526-0219	16	Washer, Flat (1/2")
8	140-2558	1	Tube, Air Inlet	23	503-1758	1	Hose, Hump – Reducer (7" ID to 6" ID)
9	503-1757	1	Hose, Hump – Reducer (8" ID to 6" ID)	24	503-1870-12	2	Clamp, Hose
10	140-2548	2	Bracket, Air Cleaner	25	140-1545	2	Hood, Air Inlet
11	140-2547	1	Plate, Air Cleaner Mounting	26	850-0060	8	Washer, Lock (1/2")
12	140-2553	1	Manifold, Air Cleaner	27	870-0281	8	Nut, Locking – Hex (3/8-16)
13	140-1260	1	Fitting, Safety Filter				
14	140-1548	1	Indicator, Service				
15	503-1870-14	1	Clamp, Hose				

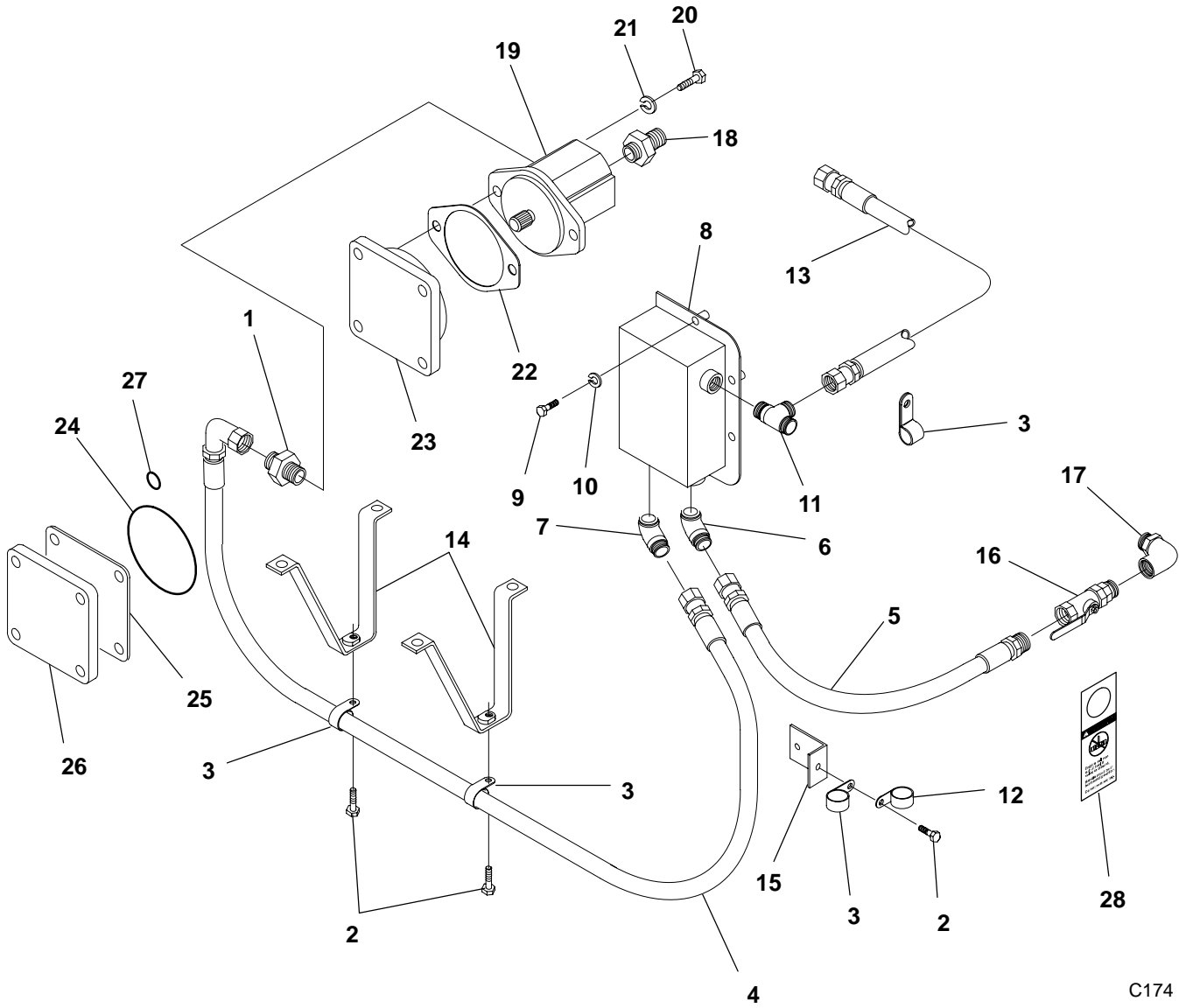
Air Cleaner, Rear Heavy Duty DFMB



D036

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2301	2	Cleaner, Air (Includes Elements – Ref No. 2 and 3)	14	503-1757	1	Hose, Hump – Reducer (8" ID to 6" ID)
2	140-2465	2	Element, Primary (Outer)	15	140-1260	1	Fitting, Safety Filter
3	140-2466	2	Element, Safety (Inner)	16	140-1548	1	Indicator, Service
4	140-2545	1	Bracket, Air Cleaner Mounting	17	503-1870-14	1	Clamp, Hose
5	140-2544-01	1	Bracket, Air Cleaner Mounting – Right Side	18	503-1871-04	7	Clamp, Hose
6	140-2544-02	1	Bracket, Air Cleaner Mounting – Left Side	19	850-0079	4	Washer, Lock – Spring (3/4")
7	140-2546	2	Angle, Air Cleaner Mounting	20	800-0152	4	Screw, Cap – Hex Head (3/4-10 x 1-1/4")
8	140-2052	4	Band, Mounting – Air Cleaner	21	821-0033	18	Screw, Self-Locking – Hex Washer Head (7/16-14 x 3/4")
9	140-2556	1	Tube, Air Inlet (7" OD)	22	870-0437	16	Nut, Locking – Hex (7/16-14)
10	503-1755	1	Elbow, Hose (63 Deg) (8" ID)	23	503-1758	1	Hose, Hump – Reducer (7" ID to 6" ID)
11	503-1756	2	Elbow, Hose (90 Deg) (8" ID)	24	503-1870-12	2	Clamp, Hose
12	140-2558	1	Tube, Air Inlet	25	140-1545	2	Hood, Air Inlet
13	140-2553	1	Manifold, Air Cleaner				

Fuel Transfer Pump **DFLB, DFLL, DFLD, DFMB Begin Spec L**

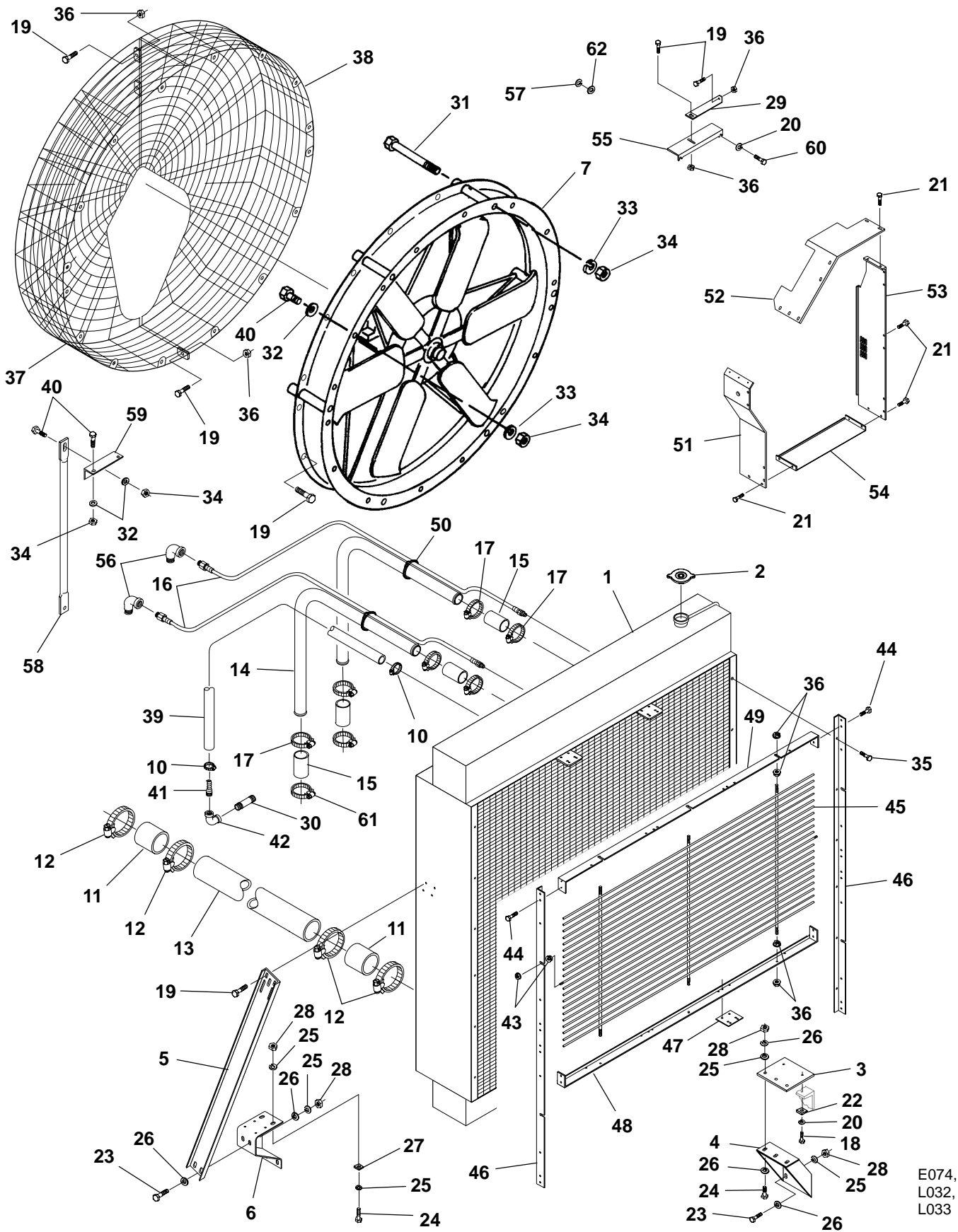


C174

Fuel Transfer Pump
DFLB, DFLC, DFLD, DFMB Begin Spec L

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-1267	1	Connector, Straight (7/8-14 x 1-3/16-12)	12	518-0633	1	Clamp, "J"
2	821-5004-02	3	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")	13	501-0654	1	Line, Fuel – Flexible (3/4" ID x 40")
3	518-0548-29	5	Clamp, Hose	14	159-1450	2	Bracket
4	501-0651	1	Line, Fuel – Flexible (3/4" ID x 67")	15	159-1448	1	Bracket
5	501-0653	1	Line, Fuel – Flexible (1" ID x 26")	16	502-1270	1	Valve, Shutoff
6	502-1266-02	1	Elbow – 45 Deg (1-5/16-12 x 1-7/16-12)	17	502-1271	1	Elbow – 90 Deg (1-5/16-12 x 1-5/16-12)
7	502-1266-01	1	Elbow – 45 Deg (1-1/16-12 x 1-3/16-12)	18	502-1268	1	Connector, Straight (7/8-14 x 1-5/16-12)
8	159-1445	1	Reservoir, Fuel	19	159-1451	1	Pump, Fuel Transfer
9	800-0081	2	Screw, Cap – Hex Head (7/16-14 x 3-1/2")	20	800-0050	2	Screw, Cap – Hex Head (3/8-16 x 1")
10	850-0055	2	Washer, Lock – Spring (7/16")	21	850-0050	2	Washer, Lock – Spring (3/8")
11	502-1269	1	Tee (1-3/16-12 x 1-3/16-12 x 1-1/16-12)	22	121-0113	1	Gasket, Pump
				23	121-0111	1	Drive, Pump
				24	509-0336	1	Seal, O-Ring
				25	121-0117	1	Gasket, Hand Hole
				26	121-0116	1	Cover, Hydraulic Hole
				27	509-0337	1	Seal, O-Ring
				28	098-7301	1	Tag, Label

Radiator DFLB Spec K and L

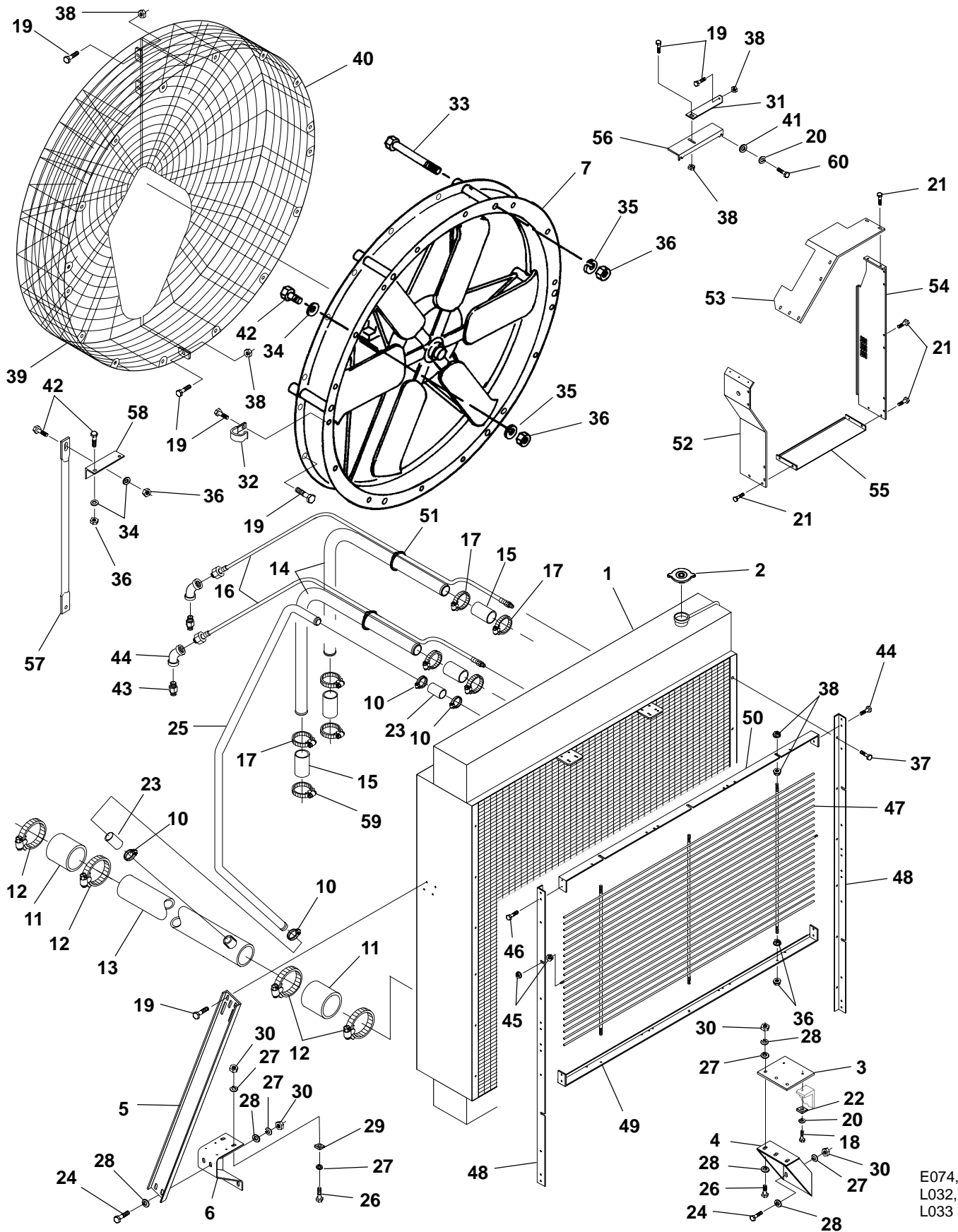


E074,
L032,
L033

Radiator **DFLB Spec K Through L**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3616	1	Radiator (Includes Radiator Cap [Ref No. 2] and Overflow Tube)	31	800-0305	6	Screw, Cap – Hex head (5/8-11 x 13")
2	130-3588	1	Cap, Radiator	32	526-0112	8	Washer, Flat (5/8")
3	130-3642	2	Spacer, Radiator	33	850-0070	10	Washer, Lock – Spring (5/8")
4	130-3639	2	Bracket, Radiator Support	34	862-0007	14	Nut, Hex (5/8-11)
5	130-4860	2	Support, Radiator	35	815-0384	12	Screw, Hex Washer Head – Thread Forming (3/8-16 x 3/4")
6	130-3644	2	Support				
7	130-3651	1	Fan Shroud Assembly (Includes Bearing and Shaft – Ref No. 8 and 9)	36	870-0550-09	27	Nut, Hex – Locking (3/8-16)
				37	130-3647-01	1	Guard, Fan – Right Side
				38	130-3647-02	1	Guard, Fan – Left Side
8	130-4215	2	Bearing (Not Illustrated)	39	503-1730	1	Hose, Radiator (1-1/2" ID x 106")
9	130-4216	1	Shaft (Not Illustrated)				
10	503-1872-02	2	Clamp, Hose	40	800-0132	8	Screw, Cap – Hex Head (5/8-11 x 1-1/2")
11	503-1726	2	Hose, Radiator (5" ID x 6")				
12	503-1872-10	4	Clamp, Hose	41	505-1429	1	Nipple, Comb (1-1/2")
13	130-3650	1	Tube, Radiator Outlet (5" OD x 48")	42	505-0183	1	Elbow Reducer, 90 Deg (1-1/2" to 1-1/4")
14	130-3649	2	Tube, Radiator Inlet (3" OD)	43	870-0212	8	Nut, Hex – Locking (1/4-20)
15	503-1728	4	Hose, Radiator (3" ID x 5-1/2")	44	821-5003-01	20	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")
16	501-0559	2	Line, Flex Fuel (1/4-18 NPTF x 75")	45	130-3827	2	Grille
17	503-1872-05	6	Clamp, Hose	46	130-3826	2	Support, Grille
18	800-0051	4	Screw, Cap – Hex Head (3/8-16 x 1-1/4")	47	130-3825	6	Plate, Stiffener
19	821-5004-03	27	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")	48	130-3663	2	Support, Grille – Bottom
20	850-0048	6	Washer, Lock – Spring (3/8")	49	130-3662	2	Support, Grille – Top
21	821-5002-03	21	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	50	332-3008	1	Tie, Cable (Quantity Used As Required)
				51	130-3675	1	Guard, Belt – Left Side
				52	130-3677	1	Guard, Belt – Top
22	403-2733-02	4	Washer, Bevel (3/8")	53	130-3676	1	Guard, Belt – Right Side
23	800-0092	16	Screw, Cap – Hex Head (1/2-13 x 1-1/2")	54	130-3672	1	Guard, Belt – Bottom
24	800-0094	10	Screw, Cap – Hex Head (1/2-13 x 2")	55	130-3779	1	Angle, Engine
25	850-0060	26	Washer, Lock – Spring (1/2")	56	505-0011	2	Elbow, Pipe – Street (1/4", 90 Deg)
26	526-0219	32	Washer, Flat (1/2")	57	850-0114-07	21	Washer, Lock – Spring (3/8")
27	403-2733-01	4	Washer, Bevel (1/2")	58	403-3278	1	Brace, Fan
28	862-0016	26	Nut, Hex (1/2-13)	59	403-3277	1	Brace, Fan
29	130-3776	1	Angle, Stiffener	60	800-0585	2	Screw, Cap – Hex Head (3/8-16 x 3-1/2")
30	505-0219	1	Nipple (1-1/4" x 4-1/2")	61	503-1870-05	2	Clamp, Hose
				62	526-0399-19	21	Washer, Flat (3/8")

Radiator DFLB Begin Spec M

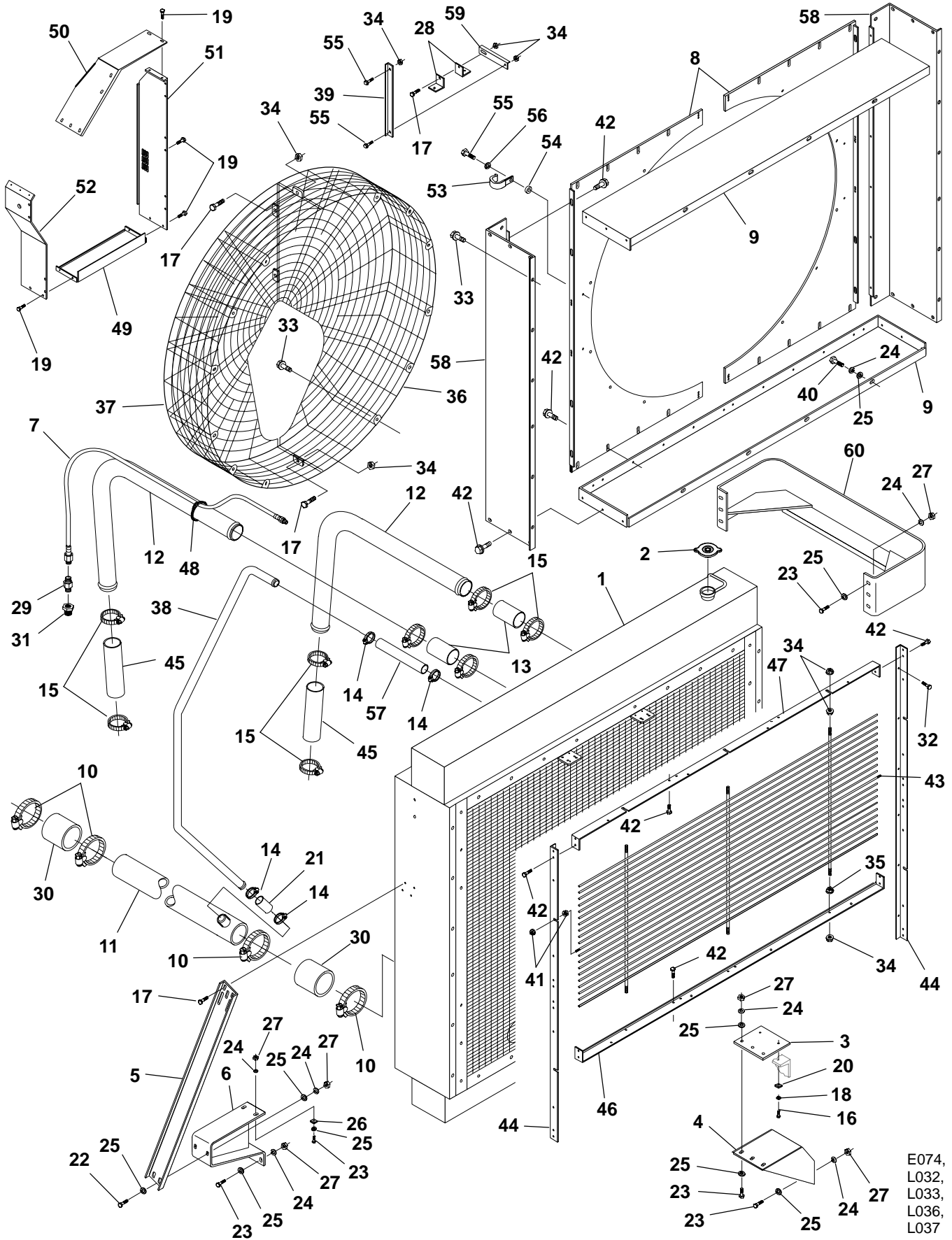


E074,
L032,
L033

Radiator **DFLB Begin Spec M**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3616	1	Radiator (Includes Radiator Cap [Ref No. 2] and Overflow Tube)	29	403-2733-01	4	Washer, Bevel (1/2")
2	130-3588	1	Cap, Radiator	30	862-0016	26	Nut, Hex (1/2-13)
3	130-3642	2	Spacer, Radiator	31	130-3776	1	Angle, Stiffener
4	130-3639	2	Bracket, Radiator Support	32	518-0633	2	Clip, J
5	130-4860	2	Support, Radiator	33	800-0305	6	Screw, Cap – Hex head (5/8-11 x 13")
6	130-3644	2	Support	34	526-0112	8	Washer, Flat (5/8")
7	130-3651	1	Fan Shroud Assembly (Includes Bearing and Shaft – Ref No. 8 and 9)	35	850-0070	10	Washer, Lock – Spring (5/8")
8	130-4215	2	Bearing (Note Illustrated)	36	862-0007	14	Nut, Hex (5/8-11)
9	130-4216	1	Shaft (Not Illustrated)	37	815-0384	12	Screw, Hex Washer Head – Thread Forming (3/8-16 x 3/4")
10	503-1872-02	4	Clamp, Hose	38	870-0550-09	28	Nut, Hex – Locking (3/8-16)
11	503-1726	2	Hose, Radiator (5" ID x 6")	39	130-3647-01	1	Guard, Fan – Right Side
12	503-1872-10	4	Clamp, Hose	40	130-3647-02	1	Guard, Fan – Left Side
13	130-4152-02	1	Tube, Radiator Outlet (5" OD x 48")	41	526-0029	2	Washer, Flat (3/8")
14	130-3649	2	Tube, Radiator Inlet (3" OD x 5-1/2")	42	800-0132	8	Screw, Cap – Hex head (5/8-11 x 1-1/2")
15	503-1728	4	Hose, Radiator (3" ID)	43	309-0635-02	2	Valve, Check
16	501-0613-01	2	Line, Flex Fuel	44	505-0376	2	Elbow, 45 Deg (3/8")
17	503-1872-05	8	Clamp, Hose	45	870-0550-05	8	Nut, Hex – Locking (1/4-20)
18	800-0051	4	Screw, Cap – Hex Head (3/8-16 x 1-1/4")	46	821-5003-01	20	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")
19	821-5004-03	28	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")	47	130-3827	2	Grille
20	850-0050	6	Washer, Lock – Spring (3/8")	48	130-3826	2	Support, Grille
21	821-5002-03	21	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	49	130-3663	2	Support, Grille – Bottom
22	403-2733-02	4	Washer, Bevel (3/8")	50	130-3662	2	Support, Grille – Top
23	503-1863	2	Hose, Radiator (1-1/2" x 6")	51	332-3008	10	Tie, Cable
24	800-0092	16	Screw, Cap – Hex Head (1/2-13 x 1-1/2")	52	130-3675	1	Guard, Belt – Left Side
25	130-4155	1	Tube, Radiator (1-1/2" ID)	53	130-3677	1	Guard, Belt – Top
26	800-0094	10	Screw, Cap – Hex Head (1/2-13 x 2")	54	130-3676	1	Guard, Belt – Right Side
27	850-0060	26	Washer, Lock – Spring (1/2")	55	130-3672	1	Guard, Belt – Bottom
28	526-0219	32	Washer, Flat (1/2")	56	130-3779	1	Angle, Engine
				57	403-3278	1	Brace, Fan
				58	403-3277	1	Brace, Fan
				59	503-1870-05	2	Clamp, Hose
				60	800-0061	2	Screw, Cap – Hex Head (3/8-16 x 3-3/4")

Radiator **DFLC Spec K Through P, DFLD, DFMB Spec K Through P**

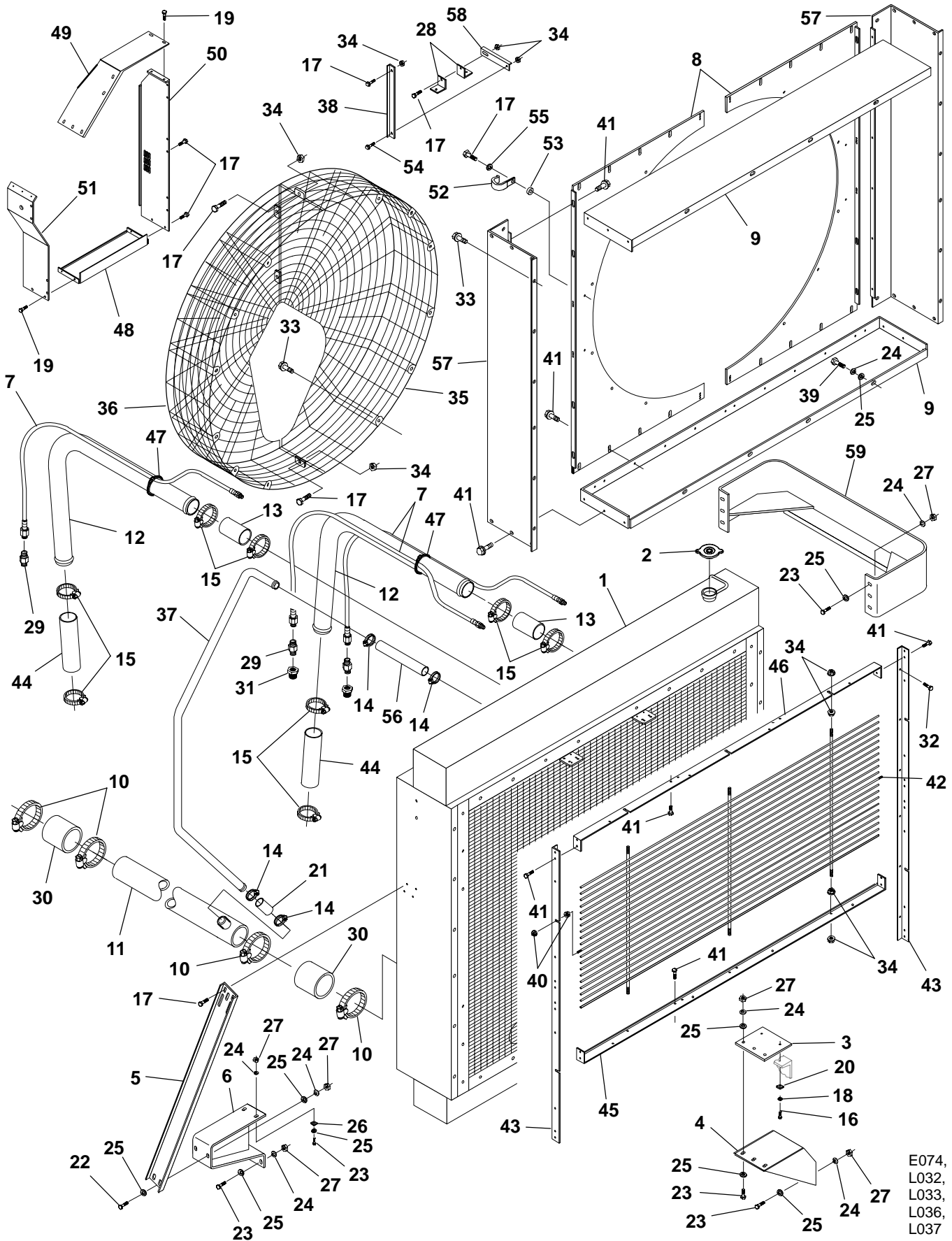


E074,
L032,
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L037

Radiator
DFLC Spec K Through P, DFLD, DFMB Spec K Through P

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4195	1	Radiator (Includes Radiator Cap [Ref No. 2] and Overflow Tube)	32	815-0384	12	Screw, Hex Washer Head – Thread Forming (3/8-16 x 3/4")
2	130-3588	1	Cap, Radiator	33	821-0029	24	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")
3	130-3642-01	2	Spacer, Radiator	34	870-0550-09	23	Nut, Hex – Locking (3/8-16) Spec K through M
4	130-4194	2	Bracket, Radiator Support			23	Spec N through P
5	130-4860	2	Support, Radiator			6	Nut, Hex – Locking (3/8-16) (Spec K through M)
6	130-4191	2	Support	35	870-0550-09	6	Guard, Fan – Right Side
7	501-0614-01	1	Line, Flex Fuel (62")	36	130-4297-02	1	Guard, Fan – Left Side
8	130-4188	2	Fan Shroud	37	130-4297-01	1	Tube, Radiator (1-1/2")
9	130-4187	2	Fan Shroud, Top and Bottom	38	130-4155	1	Angle, Stiffener
10	503-1872-09	4	Clamp, Hose	39	130-4219	1	Screw, Cap – Hex Head (1/2-13 x 1")
11	130-4152-01	1	Tube, Radiator Outlet (5" OD x 48")	40	800-0090	8	Nut, Hex – Locking (1/4-20)
12	130-3648	2	Tube, Radiator Inlet (3" OD)	41	870-0212	8	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")
13	503-1728	2	Hose, Radiator (3" ID x 5-1/2")	42	821-0014	80	Grille
14	503-1872-02	4	Clamp, Hose	43	130-4292	2	Support, Grille
15	503-1872-05	8	Clamp, Hose	44	130-3826	2	Hose, Radiator (3" ID x 12")
16	800-0051	6	Screw, Cap – Hex Head (3/8-16 x 1-1/4")	45	503-1727	2	Support, Grille – Bottom
17	821-0030	11	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")	46	130-4291	2	Support, Grille – Top
18	850-0048	6	Washer, Lock – Spring (3/8")	47	130-4290	2	Tie, Cable
19	821-0010	21	Screw, Self-Locking (1/4-20 x 1/2")	48	332-3008	8	Guard, Belt – Bottom
20	403-2733-02	4	Washer, Bevel (3/8")	49	130-4294	1	Guard, Belt – Top
21	503-1863	1	Hose, Radiator (1-1/2" ID x 6")	50	130-4296	1	Guard, Belt – Right Side
22	800-0092	4	Screw, Cap – Hex Head (1/2-13 x 1-1/2")	51	130-4295	1	Guard, Belt – Left Side
23	800-0094	34	Screw, Cap – Hex Head (1/2-13 x 2")	52	130-4293	1	Clip, "J"
24	850-0060	46	Washer, Lock – Spring (1/2")	53	518-0633	2	Spacer
25	526-0219	50	Washer, Flat (1/2")	54	130-3660	2	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1-1/4")
26	403-2733-01	4	Washer, Bevel (1/2")	55	821-0035	4	Washer, Flat (3/8")
27	862-0016	38	Nut, Hex (1/2-13)	56	526-0029	2	Hose, Radiator (1-1/2" x 12-1/2")
28	130-3780	2	Angle, Engine	57	503-1863-01	1	Shroud, Fan – Side
29	309-0635-02	1	Valve, Check	58	130-4299	2	Angle, Stiffener
30	503-1726	2	Hose, Radiator (5" ID)	59	130-3777	1	Bumper, Radiator
31	505-0017	1	Bushing, Reducer (3/8" to 1/4")	60	130-4301	2	

**Radiator – 50°C Ambient
DFLC, DFMB Begin Spec R**

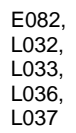


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**Radiator – 50°C Ambient
DFLC, DFMB Begin Spec R**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4195	1	Radiator (Includes Radiator Cap [Ref No. 2] and Overflow Tube)	31	505-0017	2	Bushing, Reducer (3/8" to 1/4")
2	130-3588	1	Cap, Radiator	32	815-0384	12	Screw, Hex Washer Head – Thread Forming (3/8-16 x 3/4")
3	130-3642-01	2	Spacer, Radiator	33	821-5004-02	24	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")
4	130-4194	2	Bracket, Radiator Support	34	870-0550-09	29	Nut, Hex – Locking (3/8-16)
5	130-4860	2	Support, Radiator	35	130-4297-02	1	Guard, Fan – Right Side
6	130-4191	2	Support	36	130-4297-01	1	Guard, Fan – Left Side
7	501-0614-01	3	Line, Flex Fuel (62")	37	130-4155	1	Tube, Radiator (1-1/2")
8	130-4188	2	Fan Shroud	38	130-4219	1	Angle, Stiffener
9	130-4187	2	Fan Shroud, Top and Bottom	39	800-0091	8	Screw, Cap – Hex Head (1/2-13 x 1-1/4")
10	503-1872-09	4	Clamp, Hose	40	870-0550-05	8	Nut, Hex – Locking (1/4-20)
11	130-4152-01	1	Tube, Radiator Outlet (5" OD x 48")	41	821-5003-01	80	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")
12	130-3648	2	Tube, Radiator Inlet (3" OD)	42	130-4292	2	Grille
13	503-1728	2	Hose, Radiator (3" ID x 5-1/2")	43	130-3826	2	Support, Grille
14	503-1872-02	4	Clamp, Hose	44	503-1727	2	Hose, Radiator (3" ID x 12")
15	503-1872-05	8	Clamp, Hose	45	130-4291	2	Support, Grille – Bottom
16	800-0051	6	Screw, Cap – Hex Head (3/8-16 x 1-1/4")	46	130-4290	2	Support, Grille – Top
17	821-5004-03	14	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")	47	332-3008	10	Tie, Cable
18	850-0050	4	Washer, Lock – Spring (3/8")	48	130-4294	1	Guard, Belt – Bottom
19	821-0010	21	Screw, Self-Locking (1/4-20 x 1/2")	49	130-4296	1	Guard, Belt – Top
20	403-2733-02	4	Washer, Bevel (3/8")	50	130-4295	1	Guard, Belt – Right Side
21	503-1863	1	Hose, Radiator (1-1/2" ID x 6")	51	130-4293	1	Guard, Belt – Left Side
22	800-0092	4	Screw, Cap – Hex Head (1/2-13 x 1-1/2")	52	518-0633	2	Clip, "J"
23	800-0094	34	Screw, Cap – Hex Head (1/2-13 x 2")	53	130-3660	2	Spacer
24	850-0060	46	Washer, Lock – Spring (1/2")	54	821-0035	1	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1-1/4")
25	526-0219	50	Washer, Flat (1/2")	55	526-0029	2	Washer, Flat (3/8")
26	403-2733-01	4	Washer, Bevel (1/2")	56	503-1863-01	1	Hose, Radiator (1-1/2" x 12-1/2")
27	862-0016	38	Nut, Hex (1/2-13)	57	130-4299	2	Shroud, Fan – Side
28	130-3780	2	Angle, Engine	58	130-3777	1	Angle, Stiffener
29	309-0635-02	3	Valve, Check	59	130-4301	2	Bumper, Radiator
30	503-1726	2	Hose, Radiator (5" ID x 6")				

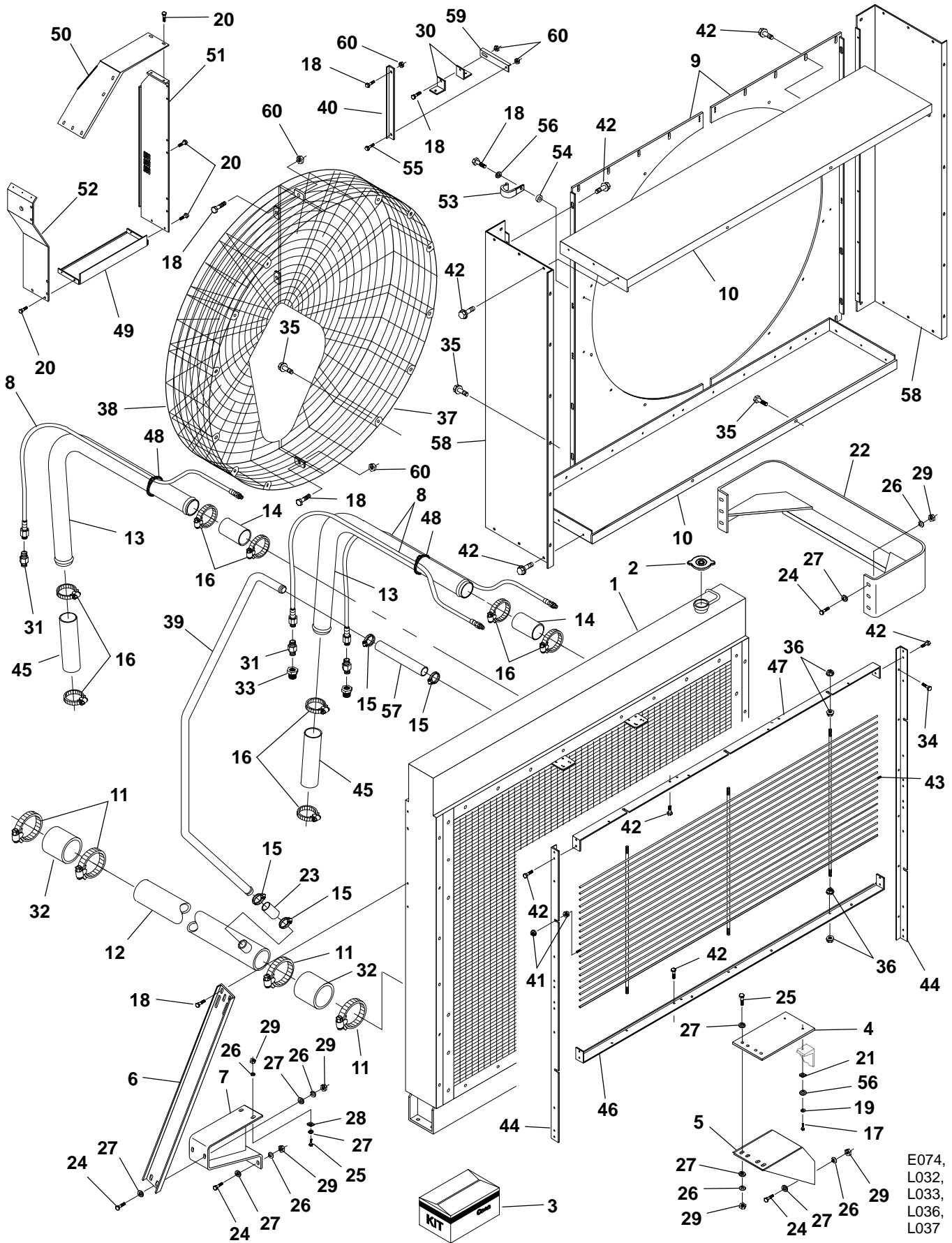
DFLC Begin Spec T



**Radiator – 40°C Ambient
DFLC Begin Spec T**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5109	1	Radiator (Includes Radiator Cap [Ref No. 2] and Overflow Tube)	28	503-1726	2	Hose, Radiator (5" ID x 6")
2	130-3588	1	Cap, Radiator	29	505-0017	2	Bushing, Reducer (3/8" to 1/4")
3	130-4362	1	Kit, Repair – Radiator Sight Guage (Includes Glass Bulb and O-Ring)	30	815-0384	12	Screw, Hex Washer Head – Thread Forming (3/8-16 x 3/4")
4	130-5198-02	2	Spacer, Radiator	31	821-5004-02	16	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")
5	130-5194-02	2	Bracket, Radiator Support	32	130-4297-02	1	Guard, Fan – Right Side
6	130-4860	2	Support, Radiator	33	130-4297-01	1	Guard, Fan – Left Side
7	130-4191	2	Support	34	130-5202-02	1	Tube, Radiator (1-1/2")
8	501-0614-01	3	Line, Flex Fuel (62")	35	130-4219	1	Angle, Stiffener
9	130-5200-02	2	Fan Shroud	36	821-5003-01	12	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")
10	503-1872-09	4	Clamp, Hose	37	332-3008	10	Tie, Cable
11	130-4152-01	1	Tube, Radiator Outlet (5" OD x 48")	38	130-4294	1	Guard, Belt – Bottom
12	130-3648	2	Tube, Radiator Inlet (3" OD)	39	130-4296	1	Guard, Belt – Top
13	503-1728	2	Hose, Radiator (3" ID x 5-1/2")	40	130-4295	1	Guard, Belt – Right Side
14	503-1872-02	4	Clamp, Hose	41	130-4293	1	Guard, Belt – Left Side
15	503-1872-05	8	Clamp, Hose	42	518-0633	2	Clip, J
16	821-5004-03	4	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")	43	130-3660	2	Spacer
17	821-5002-03	21	Screw, Self-Locking (1/4-20 x 1/2")	44	821-0035	6	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1-1/4")
18	130-4301	2	Bumper, Radiator	45	503-1863-01	1	Hose, Radiator (1-1/2" ID x 6")
19	503-1863	1	Hose, Radiator (1-1/2" ID x 6")	46	130-5199-02	2	Wrapper, Fan Shroud
20	800-0092	28	Screw, Cap – Hex Head (1/2-13 x 1-1/2")	47	130-3777	1	Angle, Stiffener
21	800-0094	12	Screw, Cap – Hex Head (1/2-13 x 2")	48	870-0281	5	Nut, Hex – Locking (3/8-16)
22	850-0060	32	Washer, Lock – Spring (1/2")	49	821-0022	2	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1-1/4")
23	526-0219	52	Washer, Flat (1/2")	50	526-2100	2	Washer, Flat (M8)
24	403-2733-01	4	Washer, Bevel (1/2")	51	503-1762	2	Hose (3" ID x 8-1/2")
25	862-0016	40	Nut, Hex (1/2-13)	52	821-5003-03	12	Screw, Cap – Hex Head (5/16-18 x 3/4")
26	130-3780	2	Angle, Engine				
27	309-0635-02	3	Valve, Check				

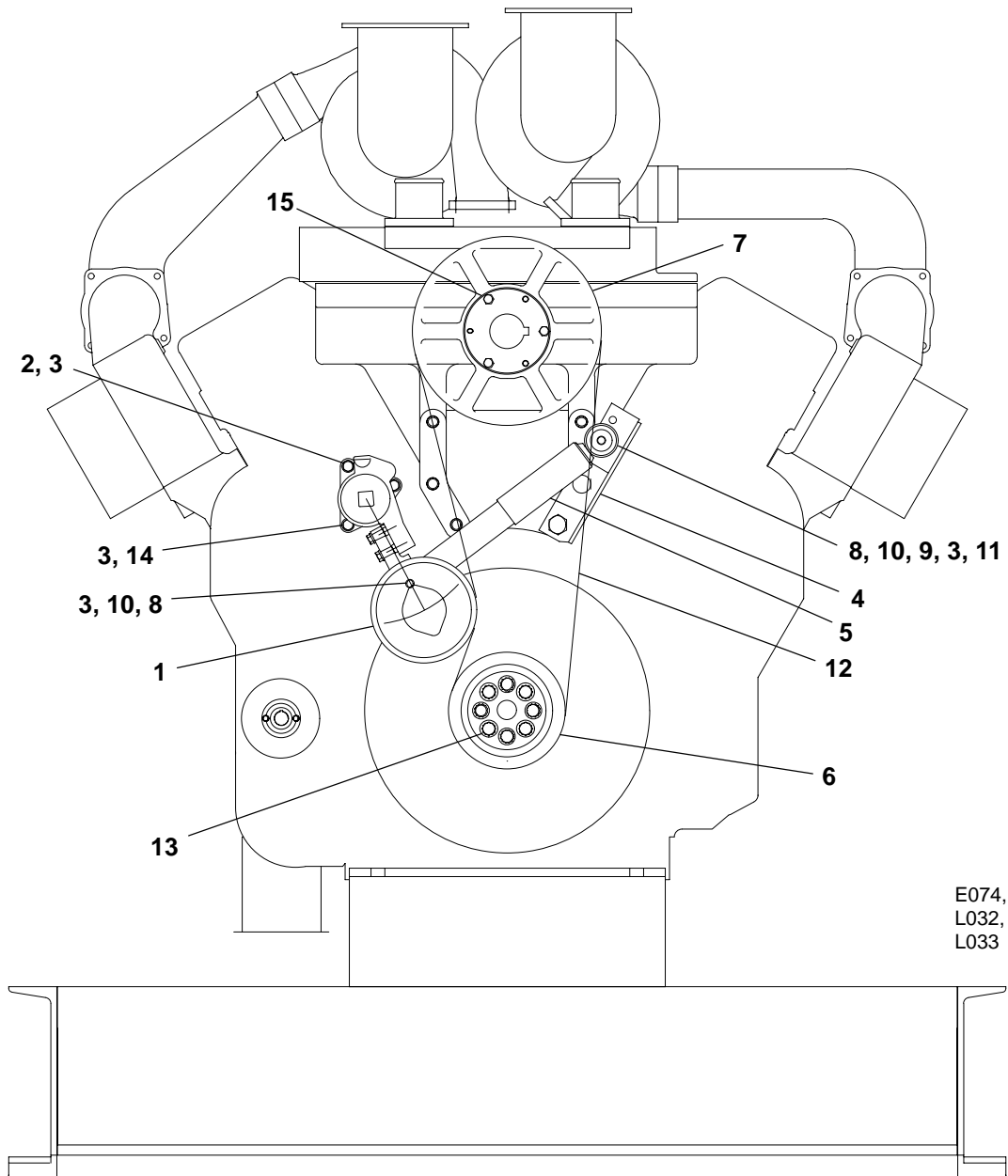
**Radiator – 50°C Ambient
DFLC Begin Spec T**



**Radiator – 50°C Ambient
DFLC Begin Spec T**

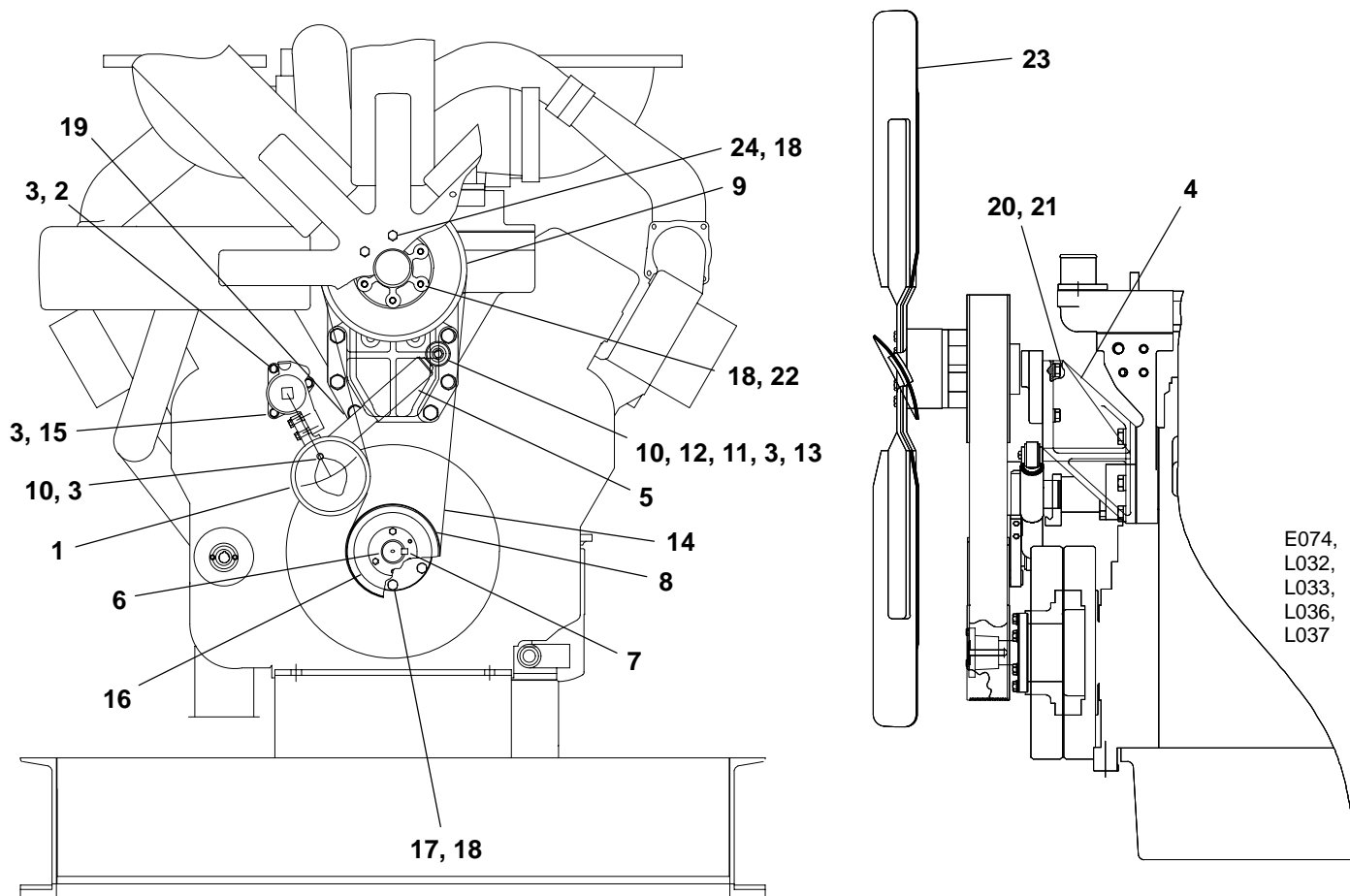
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5108	1	Radiator (Includes Radiator Cap [Ref No. 2] and Overflow Tube)	30	130-3780	2	Angle, Engine
2	130-3588	1	Cap, Radiator	31	309-0635-02	3	Valve, Check
3	130-4362	1	Kit, Repair – Radiator Sight Guage (Includes Glass Bulb and O-Ring)	32	503-1726	2	Hose, Radiator (5" ID x 6")
4	130-5195-02	2	Spacer, Radiator	33	505-0017	2	Bushing, Reducer (3/8" to 1/4")
5	130-5194-02	2	Bracket, Radiator Support	34	815-0384	12	Screw, Hex Washer Head – Thread Forming (3/8-16 x 3/4")
6	130-4860	2	Support, Radiator	35	821-5004-02	28	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")
7	130-4191	2	Support	36	870-0550-09	24	Nut, Lock – Hex (3/8-16)
8	501-0614-01	3	Line, Flex Fuel (62")	37	130-4297-02	1	Guard, Fan – Right Side
9	130-4188	2	Fan Shroud	38	130-4297-01	1	Guard, Fan – Left Side
10	130-5192-02	2	Fan Shroud, Top and Bottom	39	130-4155	1	Tube, Radiator (1-1/2")
11	503-1872-09	4	Clamp, Hose	40	130-4219	1	Angle, Stiffener
12	130-4152-01	1	Tube, Radiator Outlet (5" OD x 48")	41	870-0550-05	8	Nut, Hex – Locking (1/4-20)
13	130-3648	2	Tube, Radiator Inlet (3" OD)	42	821-5003-01	60	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")
14	503-1728	2	Hose, Radiator (3" ID x 5-1/2")	43	130-4292	2	Grille
15	503-1872-02	4	Clamp, Hose	44	130-3826	2	Support, Grille
16	503-1872-05	8	Clamp, Hose	45	503-1727	2	Hose, Radiator (3" ID x 12")
17	800-0053	6	Screw, Cap – Hex Head (3/8-16 x 1-1/4")	46	130-4291	2	Support, Grille – Bottom
18	821-5004-03	4	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")	47	130-4290	2	Support, Grille – Top
19	850-0050	4	Washer, Lock – Spring (3/8")	48	332-3008	10	Tie, Cable
20	821-5002-03	21	Screw, Self-Locking (1/4-20 x 1/2")	49	130-4294	1	Guard, Belt – Bottom
21	403-2733-02	4	Washer, Bevel (3/8")	50	130-4296	1	Guard, Belt – Top
22	130-4301	2	Bumper, Radiator	51	130-4295	1	Guard, Belt – Right Side
23	503-1863	1	Hose, Radiator (1-1/2" ID x 6")	52	130-4293	1	Guard, Belt – Left Side
24	800-0092	28	Screw, Cap – Hex Head (1/2-13 x 1-1/2")	53	518-0633	2	Clip, J
25	800-0094	8	Screw, Cap – Hex Head (1/2-13 x 2")	54	130-3660	2	Spacer
26	850-0060	36	Washer, Lock – Spring (1/2")	55	821-0035	7	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1-1/4")
27	526-0219	44	Washer, Flat (1/2")	56	526-0029	6	Washer, Flat (3/8")
28	403-2733-01	4	Washer, Bevel (1/2")	57	503-1863-01	1	Hose, Radiator (1-1/2" x 12-1/2")
29	862-0016	36	Nut, Hex (1/2-13)	58	130-5191-02	2	Shroud, Fan – Side
				59	130-3777	1	Angle, Stiffener
				60	870-0281	5	Nut, Hex – Locking (3/8-16)

Fan Drive DFLB



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3668	1	Idler Assembly, Fan (Includes Idler Lever Assembly, Idler Pulley and Ring Dowel)	9	130-3660	1	Spacer
2	800-0500	2	Screw, Cap – Hex Head (7/16-14 x 5-1/2", Grade 8)	10	526-0141	2	Washer, Flat (7/16")
3	850-0055	5	Washer, Lock – Spring (7/16")	11	862-0034	1	Nut, Hex (7/16")
4	130-3657	1	Support, Fan	12	511-0161-03	1	Belt, Ribbed Generator Sets with Standby Power
5	402-0612	1	Absorber, Shock		511-0161-12	1	Generator Sets with Prime Power
6	130-3812	1	Pulley, Fan Drive (7.4")	13	815-0769-01	8	Screw, Cap – 12 Point (3/4-16 x 4-1/2")
7	130-3654	1	Pulley, Fan Drive (12")	14	800-0507	1	Screw, Cap – Hex Head (7/16-14 x 1-1/2", Grade 8)
8	800-0078	2	Screw, Cap – Hex Head (7/16-14 x 2-3/4")	15	130-3652	1	Bushing (2-3/16" ID)

Fan Drive DFLC, DFLD, DFMB Spec K Through M

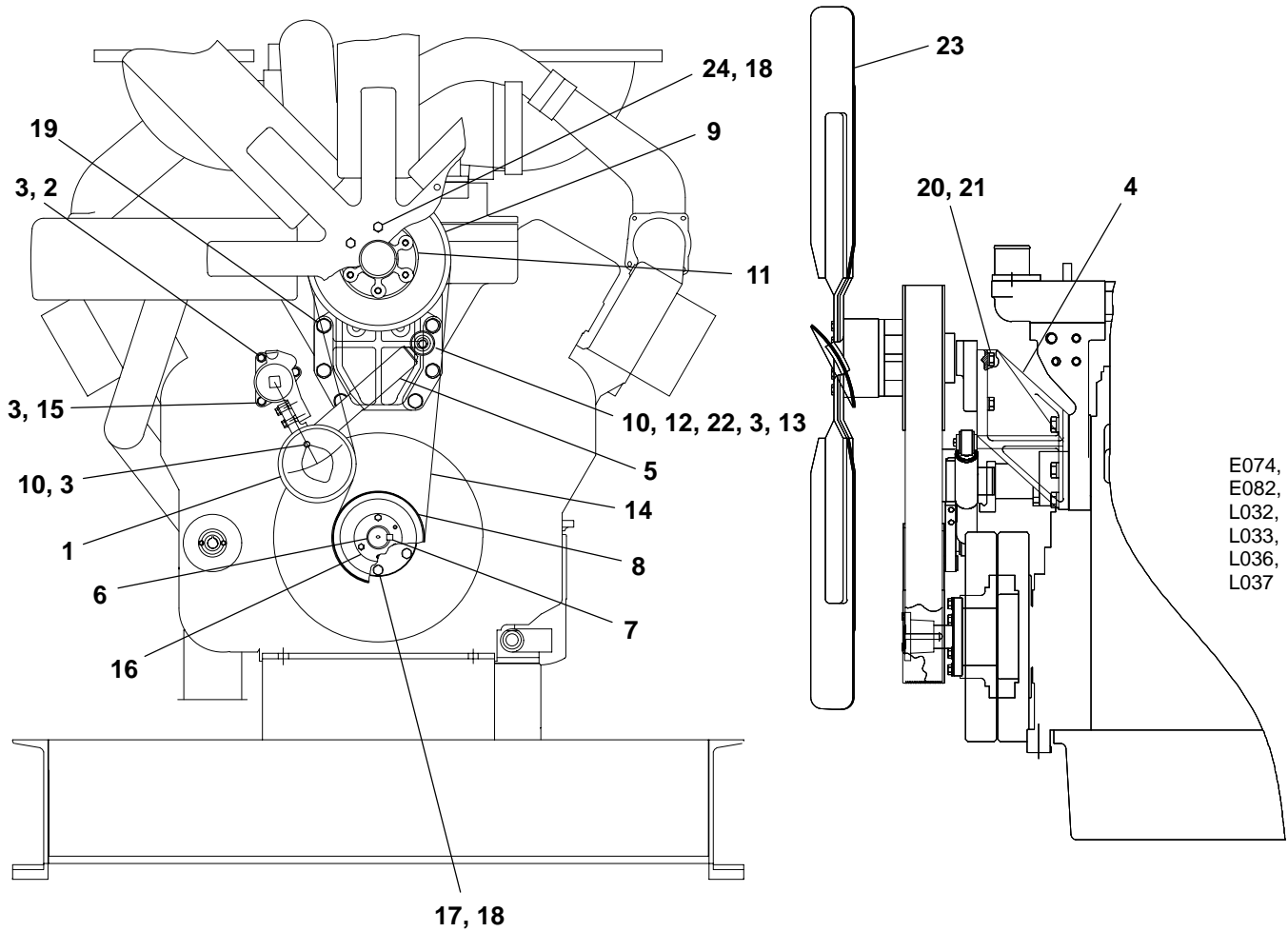


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3668	1	Idler Assembly, Fan (Includes Idler Lever Assembly, Idler Pulley and Ring Dowel)	15	800-0507	1	Screw, Cap – Hex Head (7/16–14 x 1–1/2") Grade 8
2	800-0500	2	Screw, Cap – Hex Head (7/16–14 x 5–1/2") Grade 8	16	130-3653	1	Bushing (2" ID)
3	850-0055	5	Washer, Lock – Spring (7/16")	17	800-0092	6	Screw, Cap – Hex Head (1/2–13 x 1–1/2")
4	130-4289	1	Support, Fan	18	526-0219	12	*+ Washer, Flat (1/2")
5	402-0612	1	Absorber, Shock	19	800-0163	6	Screw, Cap – Hex Head (3/4–10 x 4")
6	130-3757	1	Shaft, Fan Drive	20	800-0135	4	Screw, Cap – Hex Head (5/8–11 x 2–1/4")
7	515-0220	1	Key (1/2" x 1/2" x 3")	21	850-0070	4	Washer, Lock – Spring (5/8")
8			Pulley, Fan Drive	22	800-0097	6	Screw, Cap – Hex head (1/2–13 x 2–3/4")
	130-4761	1	* 0.61:1 Drive Ratio (7–5/8" Dia.)	23	130-5210	1	*+ Fan, Engine
	130-4762	1	+ 0.69:1 Drive Ratio (8–5/8" Dia.)	24	800-0106	6	*+ Screw, Cap – Hex Head (1/2–13 x 5–1/2")
9	130-4154	1	Pulley, Fan Drive (12–1/2" Dia.)				
10	800-0078	2	Screw, Cap – Hex Head (7/16–14 x 2–3/4")				
11	130-4153	1	*+ Spacer, Fan				
12	526-0141	2	Washer, Flat (7/16")				
13	862-0034	1	Nut, Hex (7/16")				
14	511-0161-10	1	+ Belt, V – Ribbed				

* Included in Fan Kit 130-4883 (0.61:1 Drive Ratio, 60 Hz). This kit must be ordered if the original fan (130-4300) that came with your generator set needs to be replaced.

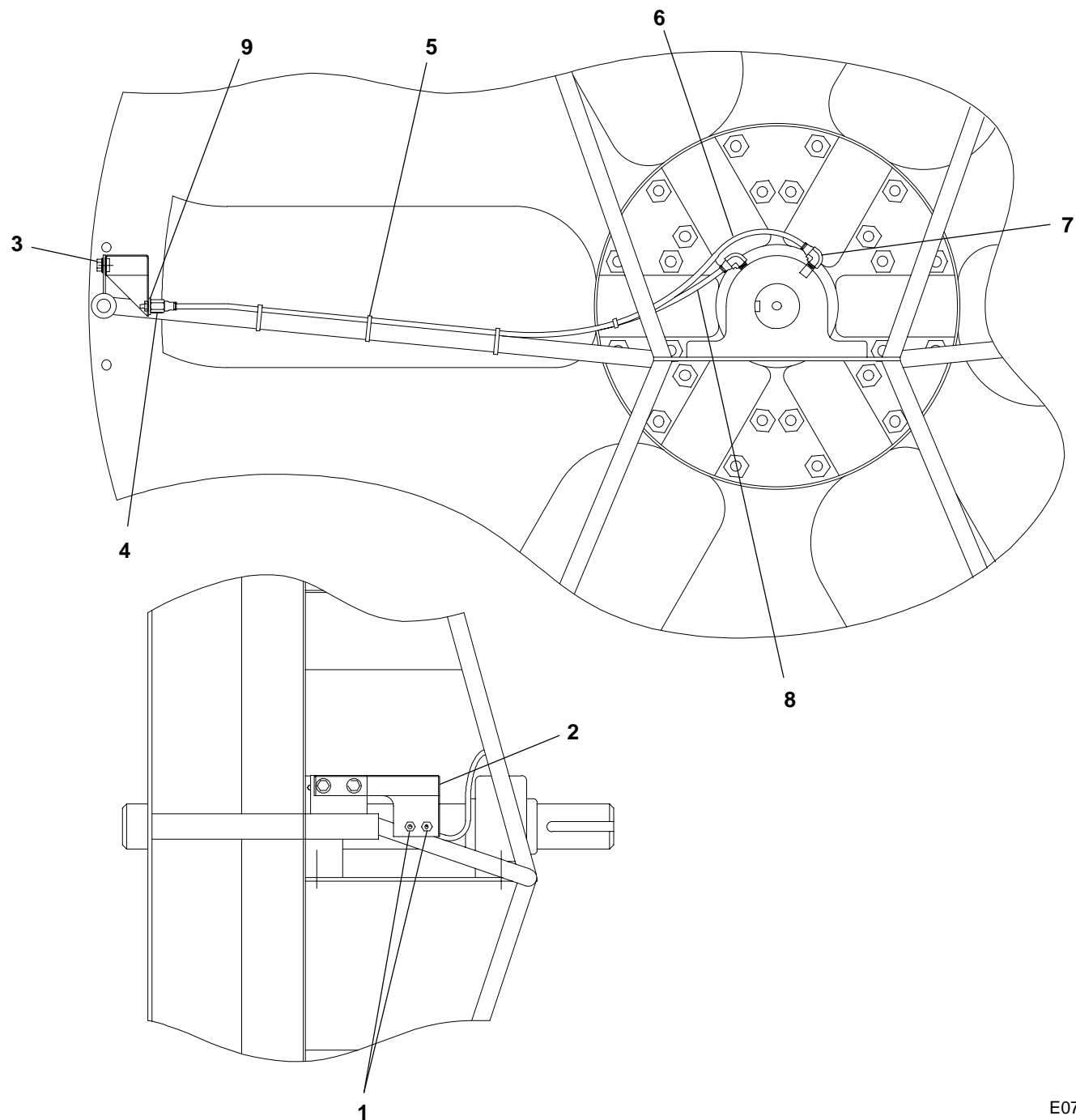
+ Included in Fan Kit 130-4884 (0.69:1 Drive Ratio, 50 Hz). This kit must be ordered if the original fan (130-4300) that came with your generator set needs to be replaced.

Fan Drive **DFLC, DFLD, DFMB Begin Spec N**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3668	1	Idler Assembly, Fan (Includes Idler Lever Assembly, Idler Pulley and Ring Dowel)	11	130-4153	1	Spacer, Fan
2	800-0500	2	Screw, Cap – Hex Head (7/16-14 x 5-1/2") Grade 8	12	526-0141	2	Washer, Flat (7/16")
3	850-0055	5	Washer, Lock – Spring (7/16")	13	862-0034	1	Nut, Hex (7/16")
4	130-4289	1	Support, Fan	14	511-0161-10	1	Belt, V – Ribbed
5	402-0612	1	Absorber, Shock	15	800-0507	1	Screw, Cap – Hex Head (7/16-14 x 1-1/2") Grade 8
6	130-3757	1	Shaft, Fan Drive	16	130-3653	1	Bushing (2" ID)
7	515-0220	1	Key (1/2" x 1/2" x 3")	17	800-0092	6	Screw, Cap – Hex Head (1/2-13 x 1-1/2")
8	130-4761	1	Pulley, Fan Drive 0.61:1 Drive Ratio (7-5/8" Dia.)	18	526-0219	12	Washer, Flat (1/2")
	130-4762	1	0.69:1 Drive Ratio (8-5/8" Dia.)	19	800-0163	6	Screw, Cap – Hex Head (3/4-10 x 4")
9	130-4154	1	Pulley, Fan Drive (12-1/2" Dia.)	20	800-0135	4	Screw, Cap – Hex Head (5/8-11 x 2-1/4")
10	800-0078	2	Screw, Cap – Hex Head (7/16-14 x 2-3/4")	21	850-0070	4	Washer, Lock – Spring (5/8")
				22	130-3660	1	Spacer
				23	130-5210	1	Fan, Engine
				24	800-0106	6	Screw, Cap – Hex Head (1/2-13 x 5-1/2")

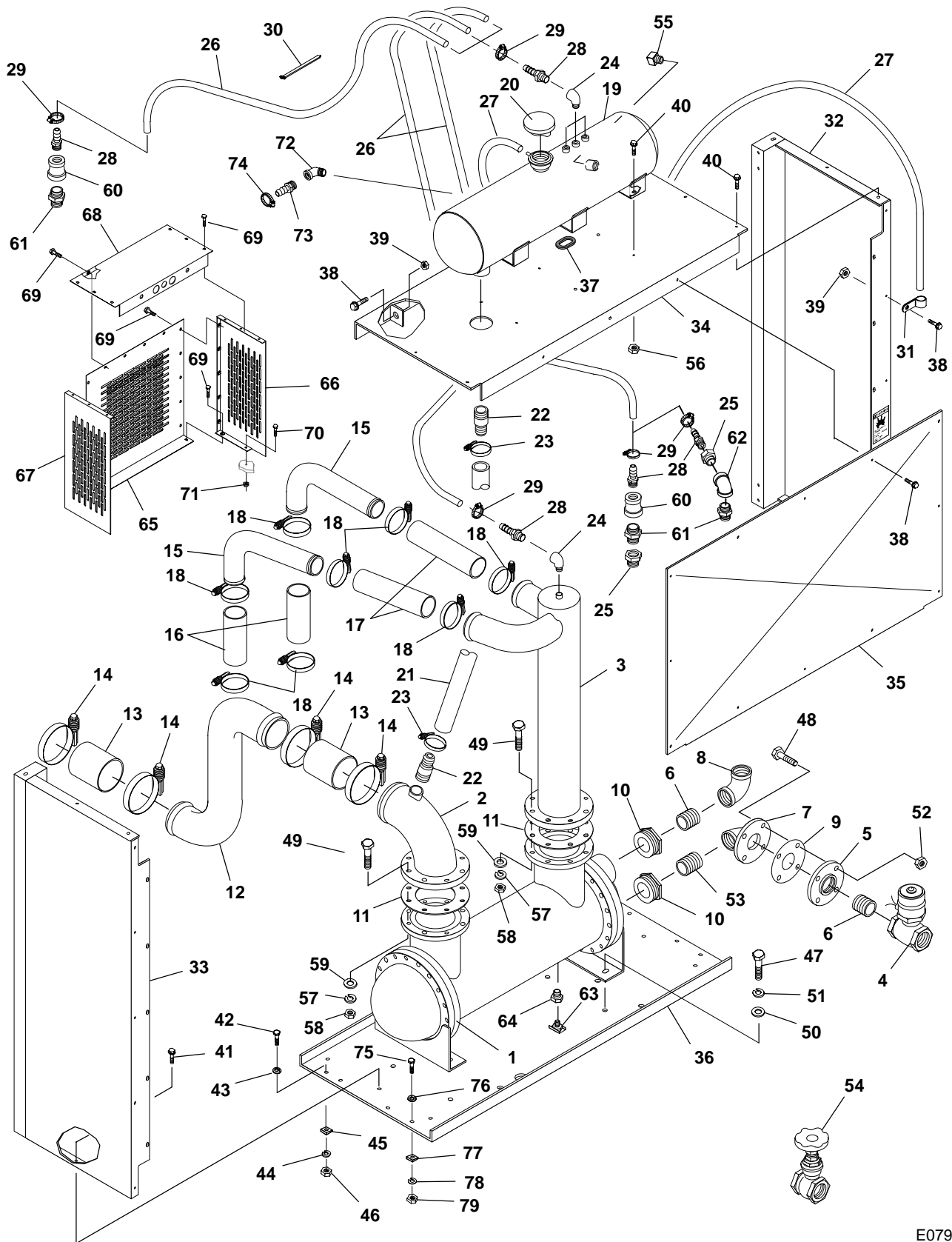
Fan Lubrication



E074,
L032,
L033

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	518-0064	2	Fitting, Grease	5	332-1389	4	Tie, Cable
2	130-3728	1	Bracket, Lube	6	503-1743-01	1	Hose, Grease (37")
3	821-5003-01	2	Screw, Self-Locking - Hex Washer Head (5-16-18 x 1/2")	7	505-1436	2	Elbow, Connector (1/8" NPT)
4	505-1435	2	Connector, Pipe - Female (1/8")	8	503-1743-02	1	Hose, Grease (35")
				9	526-0346	2	Washer, Flat (13/32")

Heat Exchanger



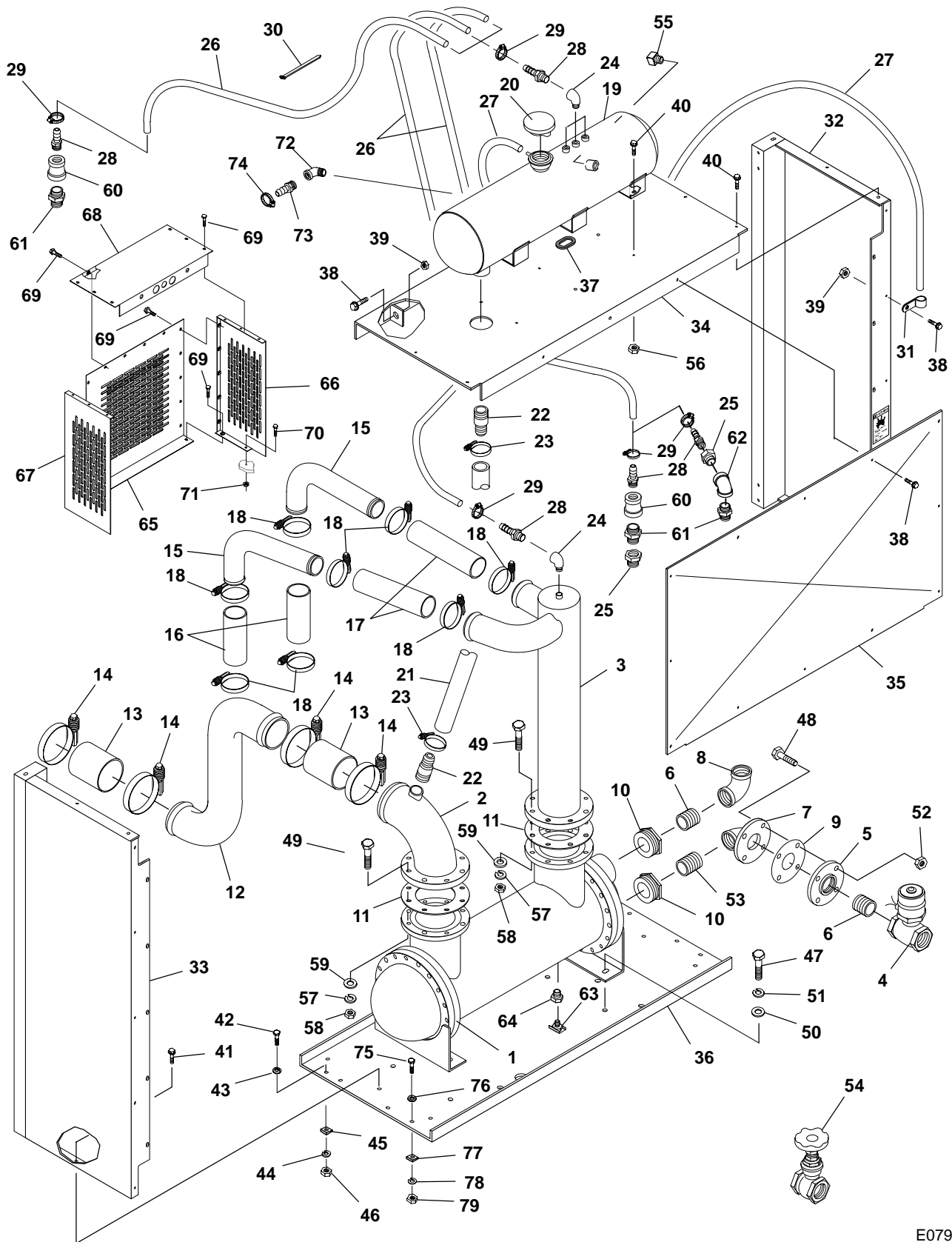
E079

Heat Exchanger

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3772	1	Exchanger, Heat	32	130-3592-02	1	Guard, Heat Exchanger – Right Side
2	130-3773	1	Elbow, Outlet	33	130-3592-01	1	Guard, Heat Exchanger – Left Side
3	130-3774	1	Manifold, Inlet	34	130-3769	1	Panel, Top
4	307-2711	1	Valve, Solenoid (2-1/2")	35	130-3767	1	Panel, Front
5	155-0899	1	Flange, Companion (2-1/2")	36	130-3770	1	Base, Heat Exchanger
6	505-0103	2	Nipple, Pipe (2-1/2" ID x 2-1/2")	37	508-1090	1	Grommet, Rubber (Fits 3-1/4" Hole)
7	505-1442	1	Elbow, Flange – 90 Deg (2-1/2" x 2-5/8")	38	821-5003-03	15	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
8	505-0044	1	Elbow, Pipe – 90 Deg (2-1/2")	39	870-0550-07	6	Nut, Flange Head (5/16-18)
9	155-2514	1	Gasket, Flange	40	821-5004-02	13	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")
10	505-1441	2	Bushing, Pipe – Hex (2-1/2" x 4")	41	821-0033	6	Screw, Self-Locking – Hex Washer Head (7/16-14 x 3/4")
11	155-2503	2	Gasket	42	800-0094	2	Screw, Cap – Hex Head (1/2-13 x 2")
12	130-3765	1	Tube, Outlet	43	526-0219	2	Washer, Flat (1/2")
13	503-1726	2	Hose, Radiator (5" ID x 6")	44	850-0060	2	Washer, Lock – Spring (1/2")
14	503-1872-10	4	Clamp, Hose	45	403-2733-01	2	Washer, Bevel (9/16" ID)
15	130-3764	2	Tube, Inlet	46	862-0016	2	Nut, Hex (1/2-13)
16	503-1762	2	Hose, Coolant (3" ID x 8-1/2")	47	800-0133	4	Screw, Cap – Hex Head (5/8-11 x 1-3/4")
17	503-1727	2	Hose, Coolant (3" ID x 10")	48	800-0135	4	Screw, Cap – Hex Head (5/8-11 x 2-1/4")
18	503-1872-05	8	Clamp, Hose	49	800-0160	16	Screw, Cap – Hex Head (3/4-10 x 3-1/4")
19	130-3766	1	Tank, Expansion	50	526-0112	4	Washer, Flat (5/8")
20	130-0449	1	Cap, Expansion Tank	51	850-0070	4	Washer, Lock – Spring (5/8")
21	503-1764	1	Hose, Flexible (1-1/2" ID x 30")	52	862-0007	4	Nut, Hex (5/8-11)
22	505-1429	2	Nipple, Combination (1-1/2" Pipe to 1-1/2" Hose)	53	505-0114	1	Nipple, Pipe – Short (2-1/2" x 3")
23	503-1872-02	2	Clamp, Hose	54	504-0175	1	Valve, Gate (2-1/2")
24	505-0011	4	Elbow, Pipe – Street (1/4")	55	505-0054	1	Plug, Square Head (1/4") DFLB,
25	505-0020	2	Bushing, Reducer (3/4" to 1/4")	56	870-0550-09	6	DFLC Spec K-R, and DFMB Spec K-R
			DFLB Spec K-N, DFLC Spec K-R, and DFMB Spec K-R	57	850-0079	16	Nut, Flange Head (3/8-16)
	505-0017	2	(3/8" to 1/4")	58	862-0008	16	Washer, Lock – Spring (3/4")
			DFLB Begin Spec P, DFLC Begin Spec S, and DFMB Begin Spec R	59	526-0027	16	Nut, Hex (3/4-10)
26	503-1620	–	Hose – Bulk (3/8" ID) (Order By The Foot)	60			Washer, Flat (3/4")
			DFLB Spec K-N – 11 Feet Required		505-0153	2	Coupling, Pipe – Reducer (3/8" to 1/4")
			DFLB Begin Spec P – 14 Feet Required				DFLB Spec K-N, DFLC Spec K-R, and DFMB Spec K-R
			DFLC Spec K-R – 11 Feet Required		505-0153	3	DFLC Begin Spec S
			DFLC Begin Spec S – 14 Feet Required	61			Valve, Check (3/8" Pipe to 1/4" Pipe)
			DFMB Spec K-R – 11 Feet Required		309-0635-02	2	DFLB Spec K-N, DFLC Spec K-R, and DFMB Spec K-R
27	503-1418	–	Hose – Bulk (1/4" ID) (Order By The Foot – 9 Feet Required)				DFLC Begin Spec S
28	502-1162	6	Connector, Hose – Barbed (1/4" Pipe to 3/8" Hose)		309-0635-02	3	
29	503-0685	7	Clamp, Hose				
30	332-1389	12	Tie, Cable				
31	518-0548-08	4	Clamp, Hose				

Continued...

Heat Exchanger

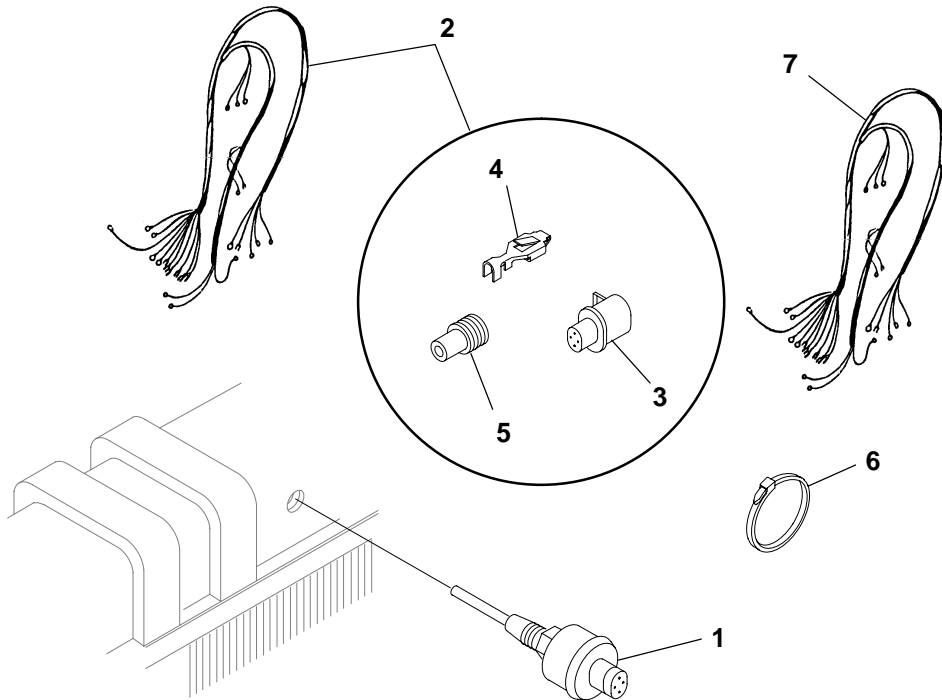


E079

Heat Exchanger

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				72	505-0011	1	Elbow, Pipe – Street (1/4") DFLC Begin Spec S and DFMB Begin Spec S
62	505-0376	2	Elbow, Pipe – 45 Deg (3/8") DFLB Begin Spec P	73	502-1162	1	Connector, Hose – Barbed (1/4" Pipe to 3/8" Hose) DFLC Begin Spec S and DFMB Begin Spec S
63	504-0028	1	Cock, Drain (3/8")	74	503-0685	1	Clamp, Hose DFLC Begin Spec S and DFMB Begin Spec S
64	505-0019	1	Bushing, Pipe – Reducer (1/2" to 3/8")	75	800-0053	4	Screw, Cap – Hex Head (3/8-16 x 1-3/4")
65	130-3715	1	Cover, Damper Guard	76	526-0030	4	Washer, Flat (3/8")
66	130-3714-01	1	Guard, Damper – Right Side	77	850-0050	4	Washer, Lock – Spring (3/8")
67	130-3714-02	1	Guard, Damper – Left Side	78	403-2733-02	4	Washer, Bevel (3/8")
68	130-3713	1	Guard, Damper – Top	79	862-0003	4	Nut, Hex (3/8")
69	821-5002-03	22	Screw, Hex Head (1/4-20 x 1/2")				
70	821-5004-03	2	Screw, Hex Head (3/8-16 x 1")				
71	870-0281	2	Nut, Hex – Locking (3/8-16)				

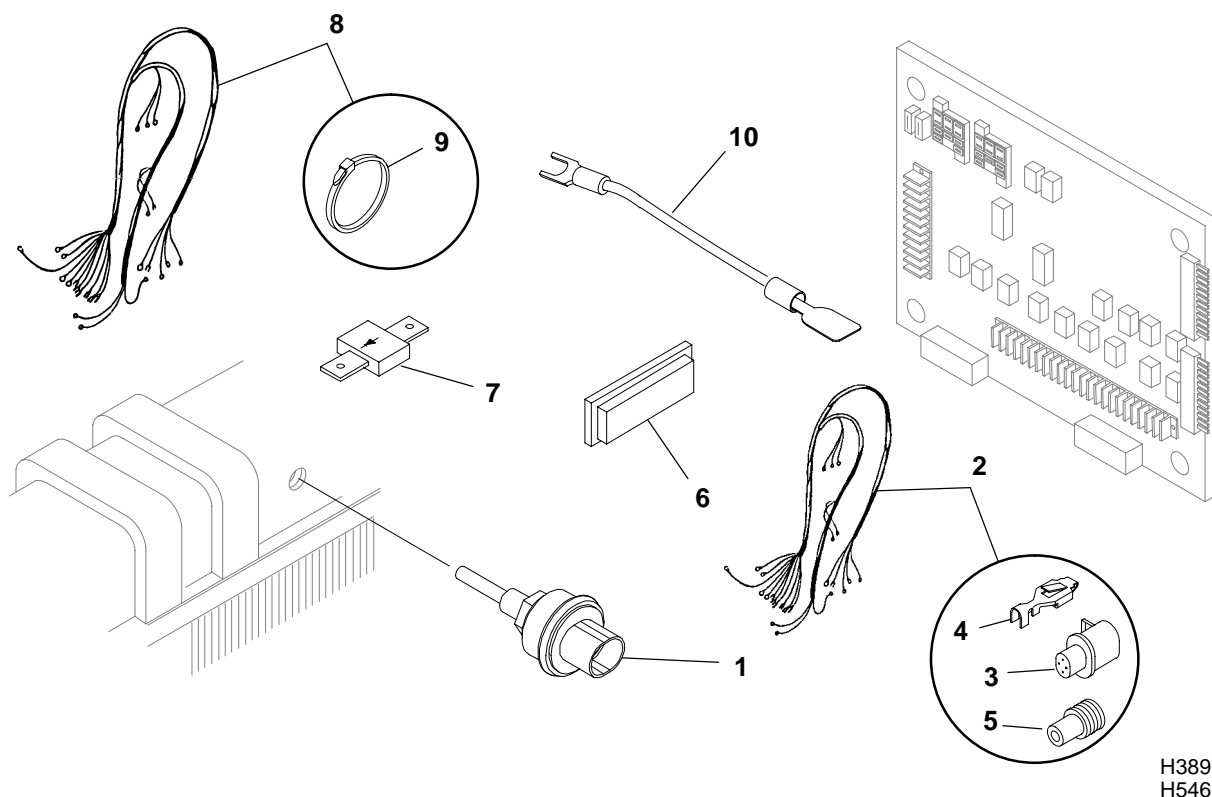
**Low Coolant Level Sender
Without Continuously Monitored Low Coolant Level
Generator Sets With Radiator Cooling**



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 *)	5	323-1708	4	*# Seal, Cable
1	193-0468	1	* Sender, Low Coolant Level (S7)	6	332-3008	1	Tie, Cable (Quantity Used as Required)
2	338-3594	1	* Harness, Wiring – Pigtail – Low Coolant Level Sender (From S3 to S3-Test, GND, B+, and SIG) (Includes Parts Marked #)	7	338-2010	1	Harness, Wiring – Low Coolant Level Sender (From S7 to T26, S2, and GND) – DFLC Spec R~
3	323-1765	1	*# Connector, Housing – 4 Pin (S3)	* – Parts Included In 193-0481 Low Coolant Level Sender Assembly			
4	323-1709	4	*# Socket, Contact	# – Parts Included In 338-3594 Pigtail Wiring Harness			
				~ – Not used with all DFLC Spec R models.			

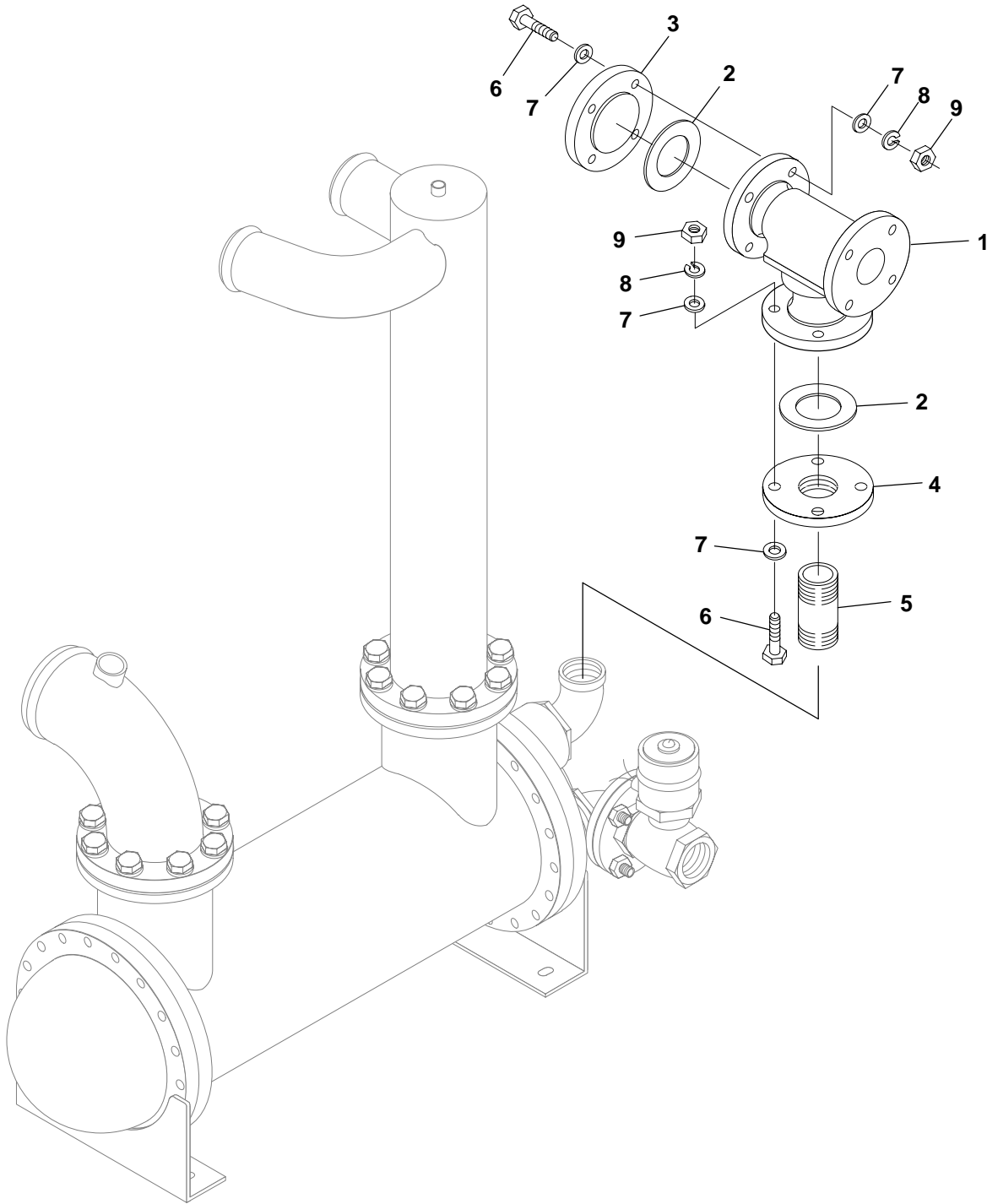
**Low Coolant Level Sender
With Continuously Monitored Low Coolant Level
12 Light Indicator Controls
Generator Sets With Radiator Cooling**



H389
H546

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 *)	7	357-0030	1	Diode (6 Amp)
1	193-0468	1	* Sender, Low Coolant Level (S7)	8	338-3035-02	1	Harness, Wiring (3 Wire, 308") (S7 to A11) (Includes Cable Tie – Ref No. 9)
2	338-3594	1	* Harness, Wiring – Low Coolant Level Sender (Pigtail – 6") (Includes Parts Marked #) (S3 to S3)	9	332-1445	3	Tie, Cable
3	323-1765	1	*# Connector, Housing – 4 Pin (S3)	10	226-4661-02	2	Lead (4") (No Markings) (A11TB2-1 to Diode and A11TB2-16 to Diode)
4	323-1709	4	*# Socket, Contact				* – Parts Included In 193-0481 Low Coolant Level Sender Assembly # – Parts Included In 338-3594 Pigtail Wiring Harness
5	323-1708	4	*# Seal, Cable				
6	322-0431-07	1	Lens, Indicator Light (Marked "Coolant Lo")				

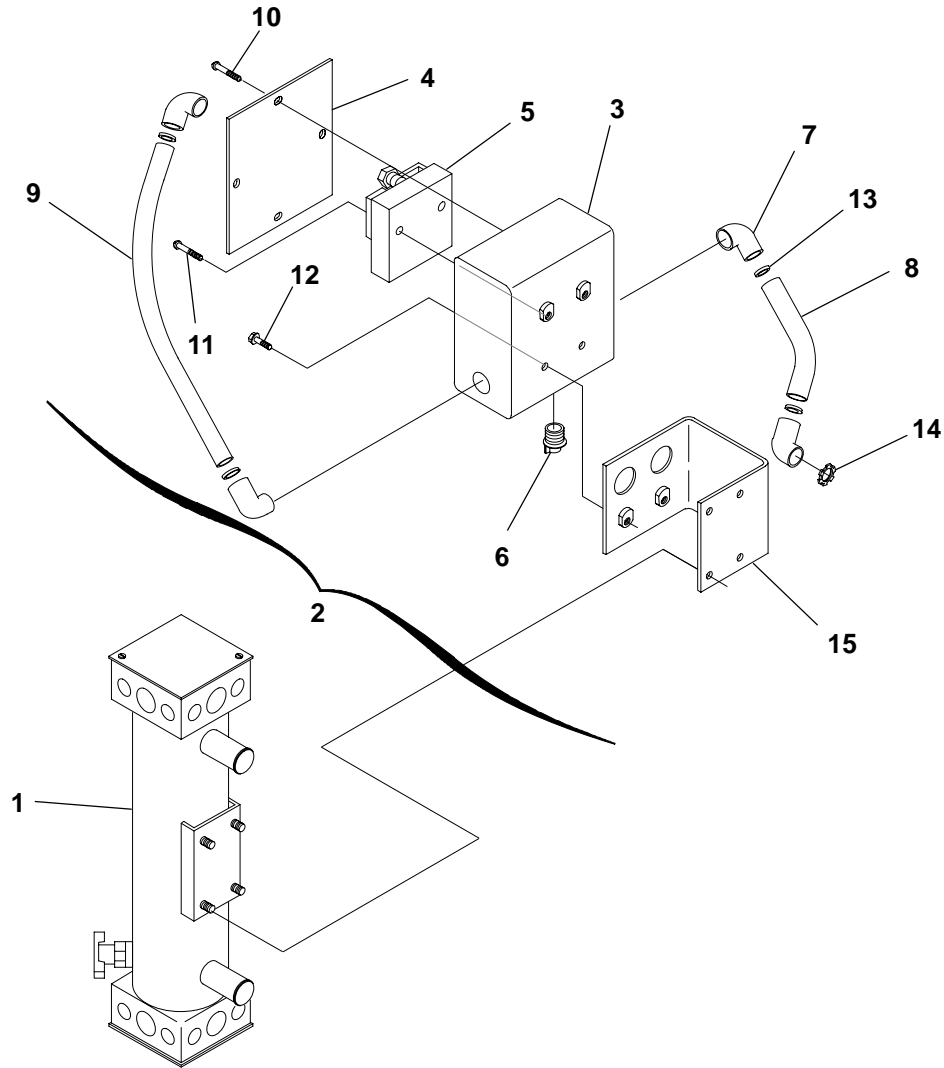
Thermostatic Valve



E045

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

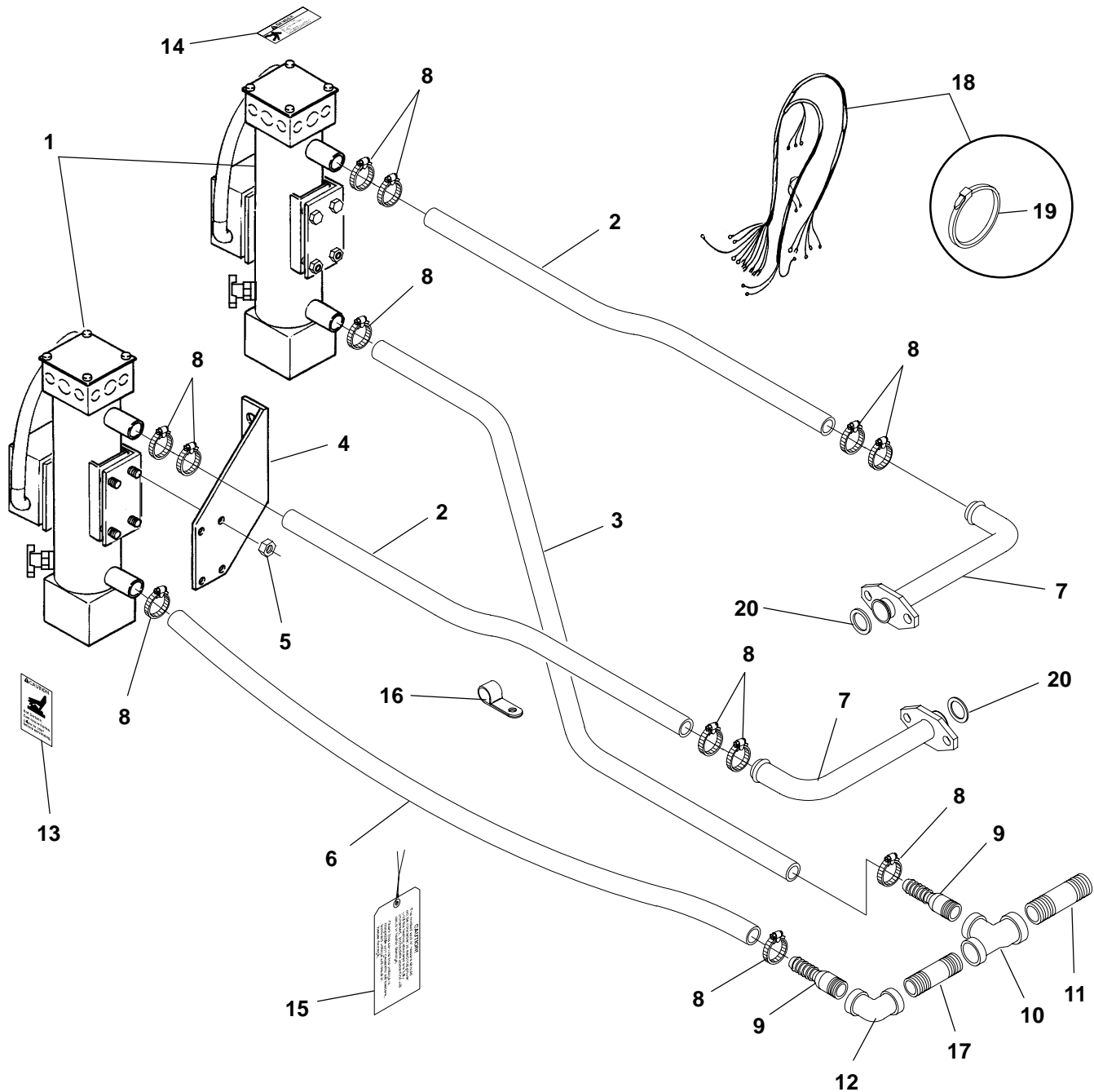
Engine Coolant Heater Components **DFLB, DFLC, DFLD, DFMB Spec K Through L**



H501
H502

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater, Coolant (4000 Watt)	9	331-0531-02	1	Conduit, Flexible (1/2" ID x 11-1/2")
	333-0494-02	2	120 Volt	10	813-0100	4	Screw, Machine – Round Head (#10-32 x 1/2")
	333-0494-01	2	208, 240, 480 Volt	11	813-0103	2	Screw, Machine – Round Head (#10-32 x 3/4")
2	179-2661	2	Relay Assembly, Heater (Includes All Parts Listed Below) (Quantities Listed Below Are For 1 Heater Relay Assembly)	12	821-0010	2	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
3	130-4079	1	Box, Relay	13	331-0533	4	Bushing, Antishort (1/2")
4	130-4082	1	Cover, Box	14	331-0532	1	Locknut, Sealing (1/2")
5	307-2762	1	Relay (K1, K2)	15	130-4083	1	Bracket, Mounting
6	331-0027	1	Connector, Romex (3/8")				
7	331-0010	4	Connector (1/2" x 90 Deg)				
8	331-0531-01	1	Conduit, Flexible (1/2" ID x 6")				

Engine Coolant Heater **DFLB, DFLE, DFLE, DFMB Spec K Through L**

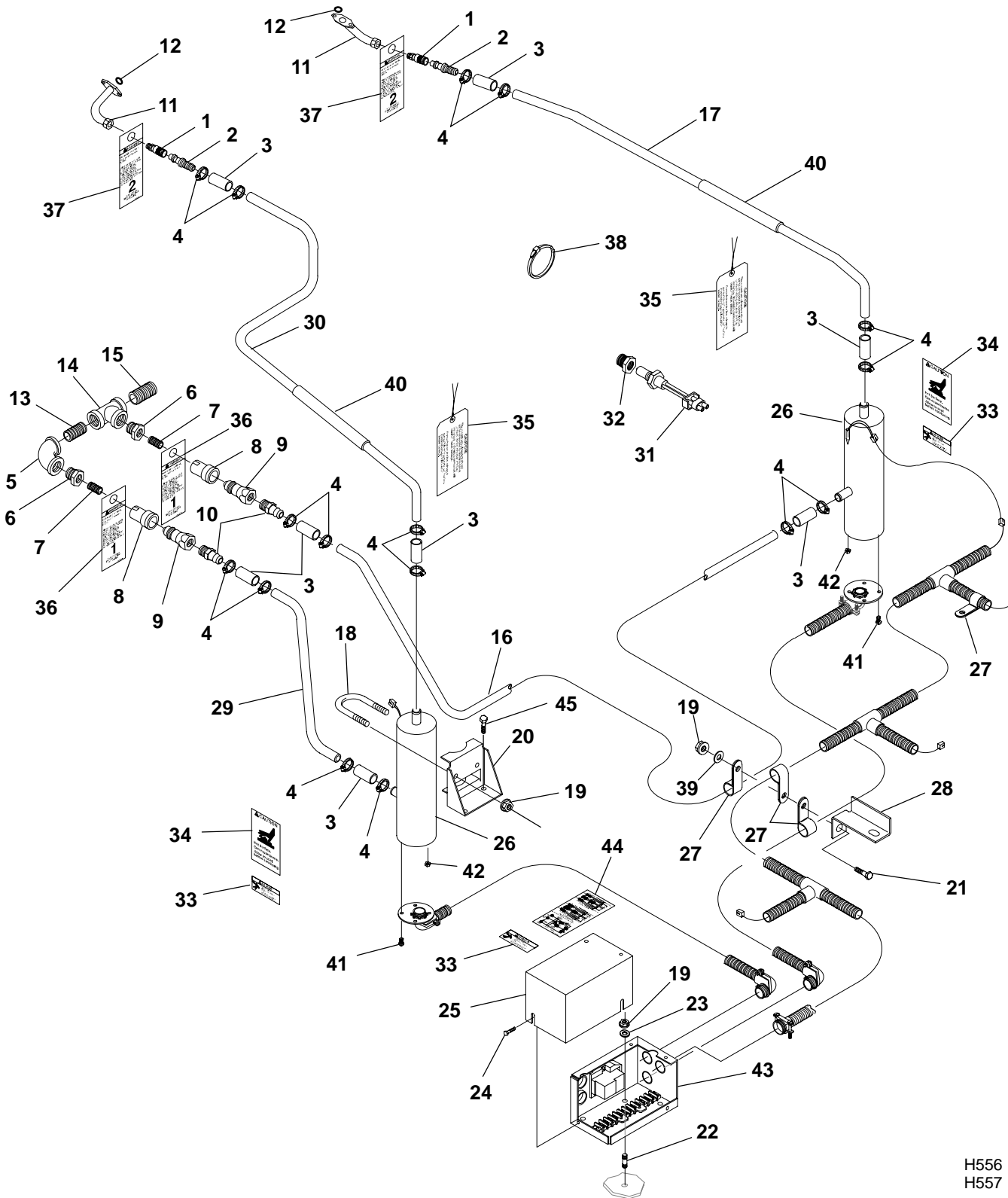


H501
H502

Engine Coolant Heater
DFLB, DFLC, DFLD, DFMB Spec K Through L

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater, Coolant (4000 Watt) (Includes Thermostat Indented Below) (See Page 67 For Components) (Includes Locking Nut – Ref No. 5)	8	503-1872-01	12	Clamp, Hose
	333-0512-02	2	120 Volt	9	505-0759	2	Nipple, Combination (1" Pipe to 1" Hose)
	333-0512-01	2	208, 240, 480 Volt	10	505-1430	1	Tee, Pipe – Reducing (1-1/4" x 1" x 1")
	333-0468	2	Thermostat, Heater (Service Replacement) (Not Illustrated)	11	505-0177	1	Nipple, Pipe (1-1/4" x 1-5/8")
2	503-1779	–	Hose, Heater – Bulk (1" ID) (Order By The Foot – 5 Feet Required)	12	505-0041	1	Elbow, Pipe – 90 Deg (1")
3	503-1779	–	Hose, Heater – Bulk (1" ID) (Order By The Foot – 9 Feet Required)	13	098-6195	2	Label, Caution – Hot Surface
4	130-3866	2	Bracket, Mounting	14	098-5347-01	2	Label, Danger – Hazardous Voltage
5	870-0212	8	Nut, Locking – Hex Head (1/4-20)	15	098-6030	2	Tag, Caution – Coolant and Oil Heater
6	503-1779	–	Hose, Heater – Bulk (1" ID) (Order By The Foot – 6 Feet Required)	16	518-0548-02	2	Clip, Retainer
7	130-3692	2	Adapter, Heater Hose	17	505-0004	1	Nipple, Pipe (1" x 1-1/2")
				18			Harness, Wiring (K1, K2 to ENG-GND, T26) (Includes Parts Marked *)
					338-2760-01	1	Left Side (121")
					338-2760-02	1	Right Side (85")
				19	332-0942	5	* Tie, Cable
				20	509-0283-01	2	Seal, Rectangular Ring
				* – Parts Included in 338-2760-01 and 338-2760-02 Wiring Harness			

Engine Coolant Heater **DFLB, DFLLC, DFLD, DFMB Begin Spec M**

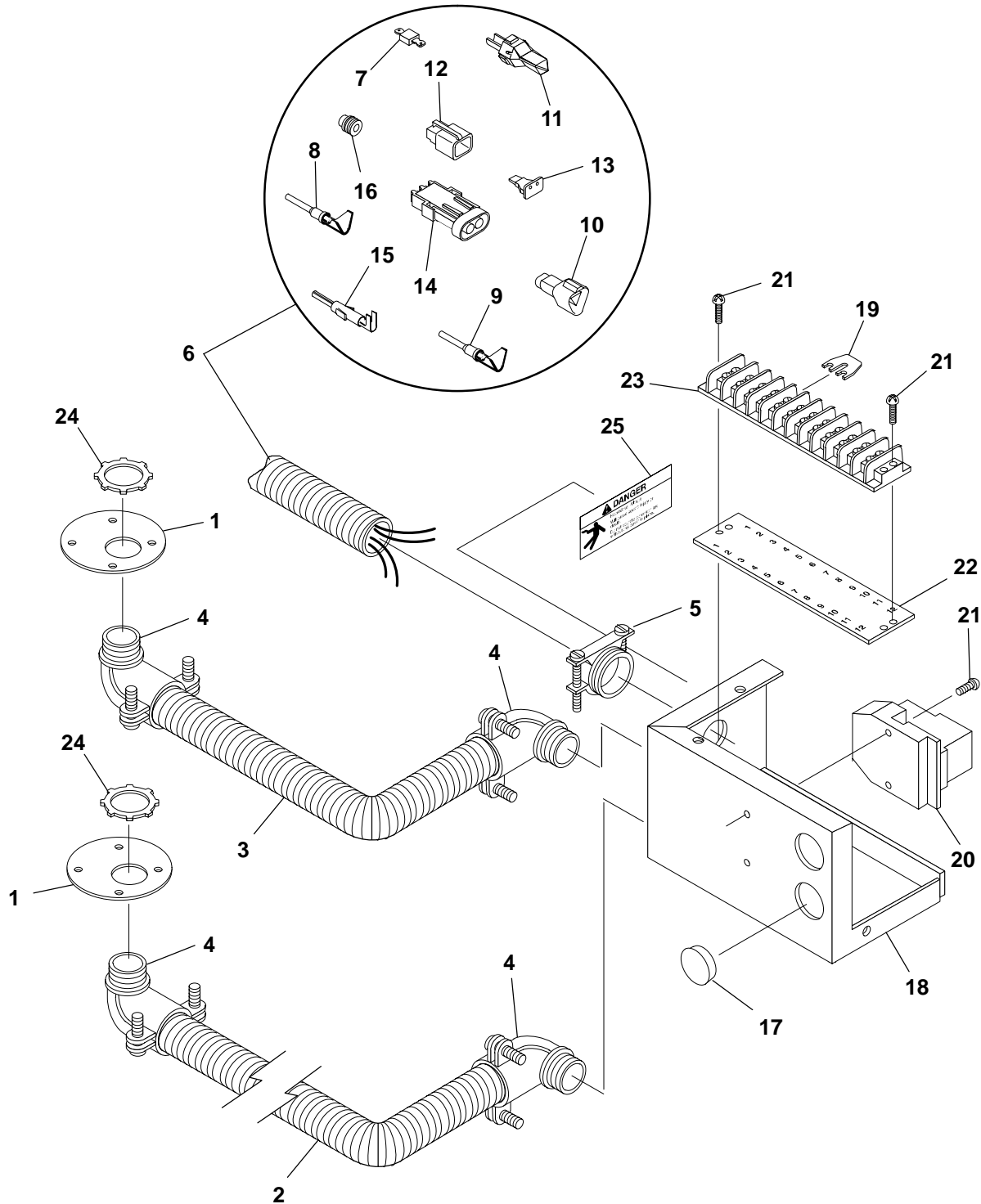


H556
H557

Engine Coolant Heater
DFLB, DFLC, DFLD, DFMB Begin Spec M

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-1259	2	Coupler (1/2" Male)	27	332-2634	4	Clamp, "J"
2	502-1257	2	Connector, Hose – Barbed (Fits 3/4" ID Hose)	28	130-4538	1	Bracket, Retainer
3	503-1634-01	8	Hose, Rubber (3/4" ID x 4")	29	130-4540	1	Tube, Heater
4	503-2157-01	16	Clamp, Hose	30	130-4544	1	Tube, Heater
5	505-0041	1	Elbow, Pipe – 90 Deg (1")	31	309-0649	1	Thermostat (Opens At 110 Deg F, Closes At 130 Deg F) (S11)
6	505-0022	2	Bushing, Pipe – Reducer (1" to 1/2")	32			Bushing, Pipe – Reducer
7	505-0100	2	Nipple, Pipe (1/2" x 1-1/8")		502-1337	1	DFLB (3/4" to 3/8")
8	502-1260	2	Coupler, Brass (1/2")		502-1336	1	DFLC (1/2" to 3/8")
9	502-1261	2	Nipple, Brass (1/2")	33	098-5347	3	Label, Danger – Hazardous Voltage
10	502-0827	2	Fitting, Hose – Barbed (1/2" ID Pipe to 3/4" ID Hose)	34	098-6195	2	Label, Caution – Hot Surface
11	130-4519	2	Tube, Heater	35	098-6030	2	Tag, Caution – Coolant and Oil Heater
12	509-0283-01	2	Seal	36	098-7182-01	2	Tag, Label – Hot Engine Coolant #1
13	505-0004	1	Nipple, Pipe (1" x 1-1/2")	37	098-7182-02	2	Tag, Label – Hot Engine Coolant #2
14	505-1430	1	Tee, Pipe – Reducing (1-1/4" x 1" x 1")	38	332-0941	2	Tie, Cable
15	505-0177	1	Nipple, Pipe (1-1/4 x 1-5/8")	39	526-0029	1	Washer, Flat (3/8")
16	130-4539	1	Tube, Heater	40	128-0108	–	Insulation, Hose – Bulk (Order By The Foot – 9 Feet Required)
17	130-4542	1	Tube, Heater	41	815-0539	6	Screw, Machine – Round Head – Cross Recessed W/IT (#8-32 x 5/8")
18	155-3021	2	Clamp, Mounting	42	870-0131	6	Nut, Hex – W/ET (#10-32)
19	870-0550-09	7	Nut, Hex – Flange (3/8-16)	43	—	1	Control Assembly, Coolant Heater (See Page 73 For Components)
20	130-4546	2	Bracket, Mounting – Coolant Heater	44	098-7183	1	Label, Relay Box
21	821-5004-03	1	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")	45	821-5004-02	5	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")
22	520-0544	2	Stud, Mounting (3/8-16 x 1-3/16")				
23	526-0128	2	Washer, Flat (3/8")				
24	821-5002-03	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")				
25	319-2815	1	Cover, Terminal Box				
26			Heater, Coolant				
	333-0639-01	2	4990 Watt				
	333-0639-02	2	6420 Watt				

Engine Coolant Heater Control **DFLB, DFLC, DFLD, DFMB Begin Spec M**



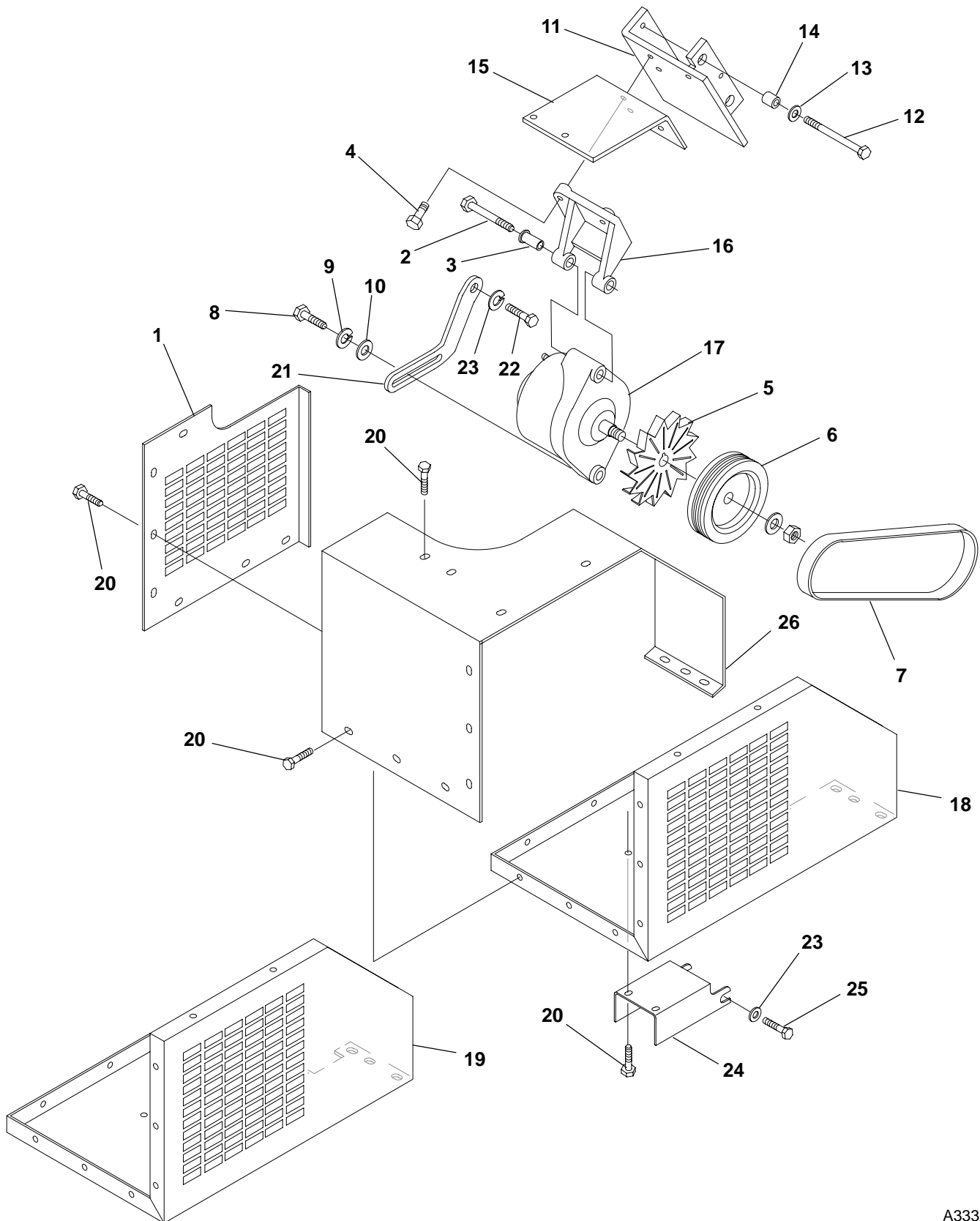
H556
H557

Engine Coolant Heater Control
DFLB, DFLC, DFLD, DFMB Begin Spec M

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4552	2	Cover, Coolant Heater	10	323-1494	1	* Connector, Receptacle (3 Pin) (J3)
2	338-3335-02	1	Harness, Wiring – AC – Coolant Heater (From Coolant Heater Bottom To Coolant Heater Control Box) (Includes Conduit Connectors – Ref No. 4) (108")	11	323-1502	1	* Wedge, Receptacle (Used With J3)
3	338-3335-01	1	Harness, Wiring – AC – Coolant Heater (From Coolant Heater Bottom To Coolant Heater Control Box) (Includes Conduit Connectors – Ref No. 4) (30")	12	323-1504	2	* Connector, Plug (2 Pin) (P4,P5)
4	331-0554	4	Connector, Conduit – 90 Deg (3/4")	13	323-1500	2	* Wedge, Plug (Used With P4,P5)
5	331-0042	1	Connector, Wiring – DC – Romex (3/4")	14	323-1652	1	* Connector, Plug – 2-Way (2 Pin) (P11)
6	338-3330	1	Harness, Wiring – DC – Engine Heater (From Coolant Heater Control Box To Engine And Main Engine Harness) (Includes Parts Marked *)	15	323-1718	2	* Pin, Contact (Used In P11)
7	357-0030	1	* Rectifier (6 Amp) (Located At K11 End Of Harness) (CR1)	16	323-1445	2	* Seal, Cable (Used With P11)
8	323-1491	3	* Pin, Contact (Used In J3)	17	517-0138-02	2	Plug, Hole (Fits 1-1/8" Hole)
9	323-1492	4	* Socket, Contact (Two Used In P4, Two Used In P5)	18	319-2814	1	Box, Terminal
				19	332-3440	2	Jumper, Terminal
				20	307-2859	1	Relay, Power – 24VDC (K11)
				21	815-0464	4	Screw, Machine – Round Head – Cross Recessed W/IT – Thread Forming (#8-32 x 1")
				22	332-1469	1	Strip, Marker
				23	332-1468	1	Block, Terminal – 12 Place (TB1)
				24	331-0555	4	Nut, Connector Lock (3/4-14)
				25	098-5347-01	1	Label, Danger

* – Parts Included In 338-3330 DC Engine Heater Wiring Harness

**Alternator
45 Amp
K38 and K50 Gensets**

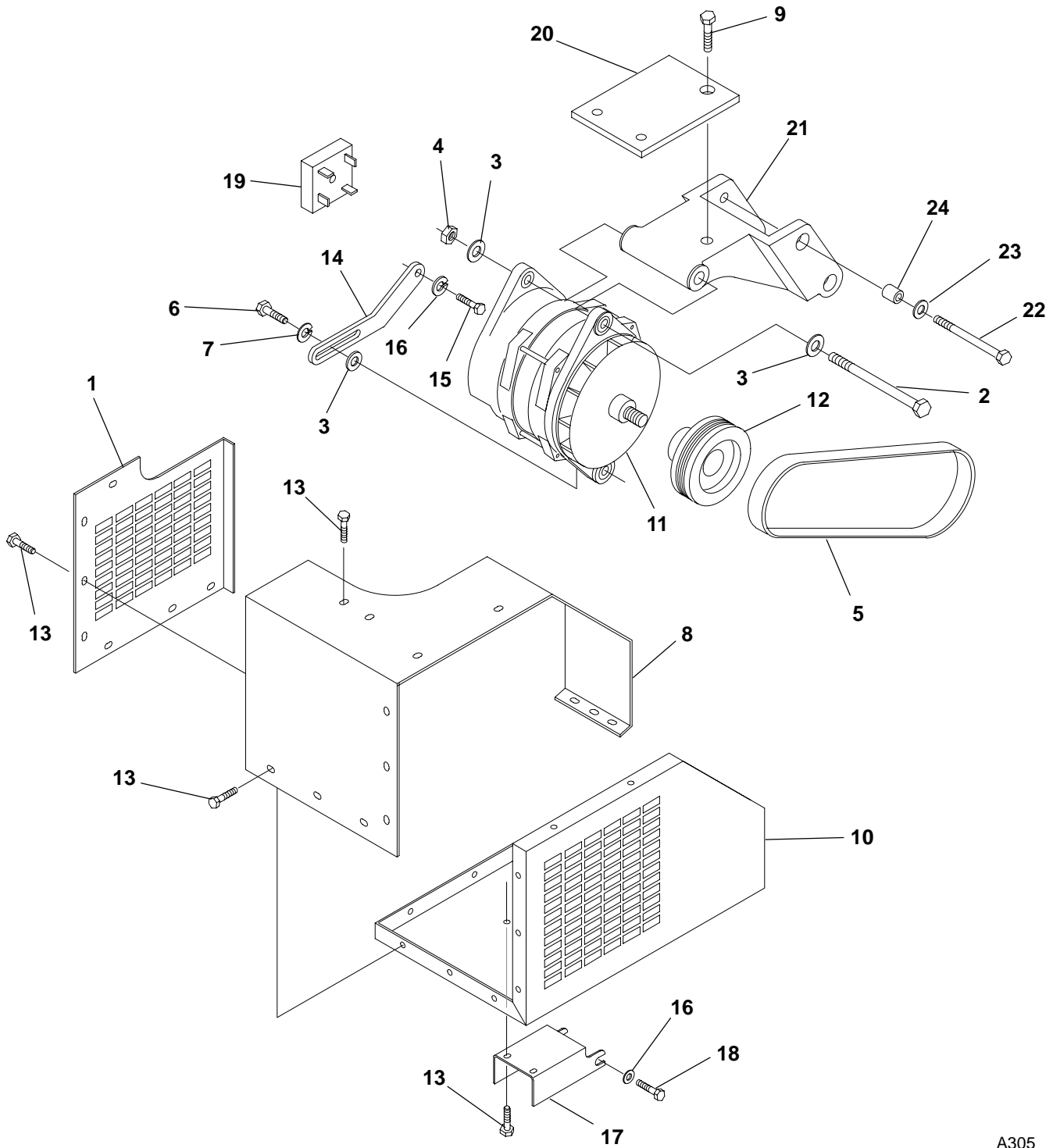


A333

**Alternator
45 Amp
K38 and K50 Gensets**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3870	1	Guard, Belt	17	191-1983-02	1	Alternator – 45 Amp
2	718-1067	1	Screw, Cap – Hex Head (M10 x 1.5 x 90mm)				(Includes M16 Nut, Spring Washer and Regulator)
3	191-1989-07	1	Spacer, Mounting		191-2121	1	Regulator – Service
4	821-0022	3	Screw, Self-Locking – Hex Washer Head (5/16-20 x 1-1/4")				Replacement (Not Illustrated)
5	191-1981	1	Fan, Alternator	18	130-3868	1	Guard, Belt
6	191-1984	1	Pulley, Alternator	19	130-5309-02	1	Guard, Belt – DFMB Spec K (Not Used on All Models)
7	511-0119	1	Belt, V	20	821-5002-04	21	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")
8	800-2059	1	Screw, Cap – Hex Head (M8 x 1.25 x 30mm)	21	191-2110	1	Bracket, Adjusting
9	850-2008	1	Washer, Lock – Spring (M8)	22	800-0071	1	Screw, Cap – Hex Head (7/16-14 x 1")
10	526-0030	1	Washer, Flat (3/8")	23	850-0055	2	Washer, Lock – Spring (7/16")
11	191-2021-01	1	Bracket, Alternator	24	130-3871-02	1	Bracket, Belt Guard
12	800-0500	2	Screw, Cap – Hex Head (7/16-14 x 5-1/2")	25	800-0069	1	Screw, Cap – Hex Head (7/16-14 x 3/4")
13	526-0098	2	Washer, Flat (7/16")	26	130-3869	1	Guard, Belt
14	191-2023	2	Sleeve				
15	191-2017	1	Bracket, Alternator				
16	191-1990	1	Support, Alternator				

**Alternator
75 Amp
DFLB Spec K Through M
DFLC Spec K Through N
DFLD
DFMB Spec K Through R**

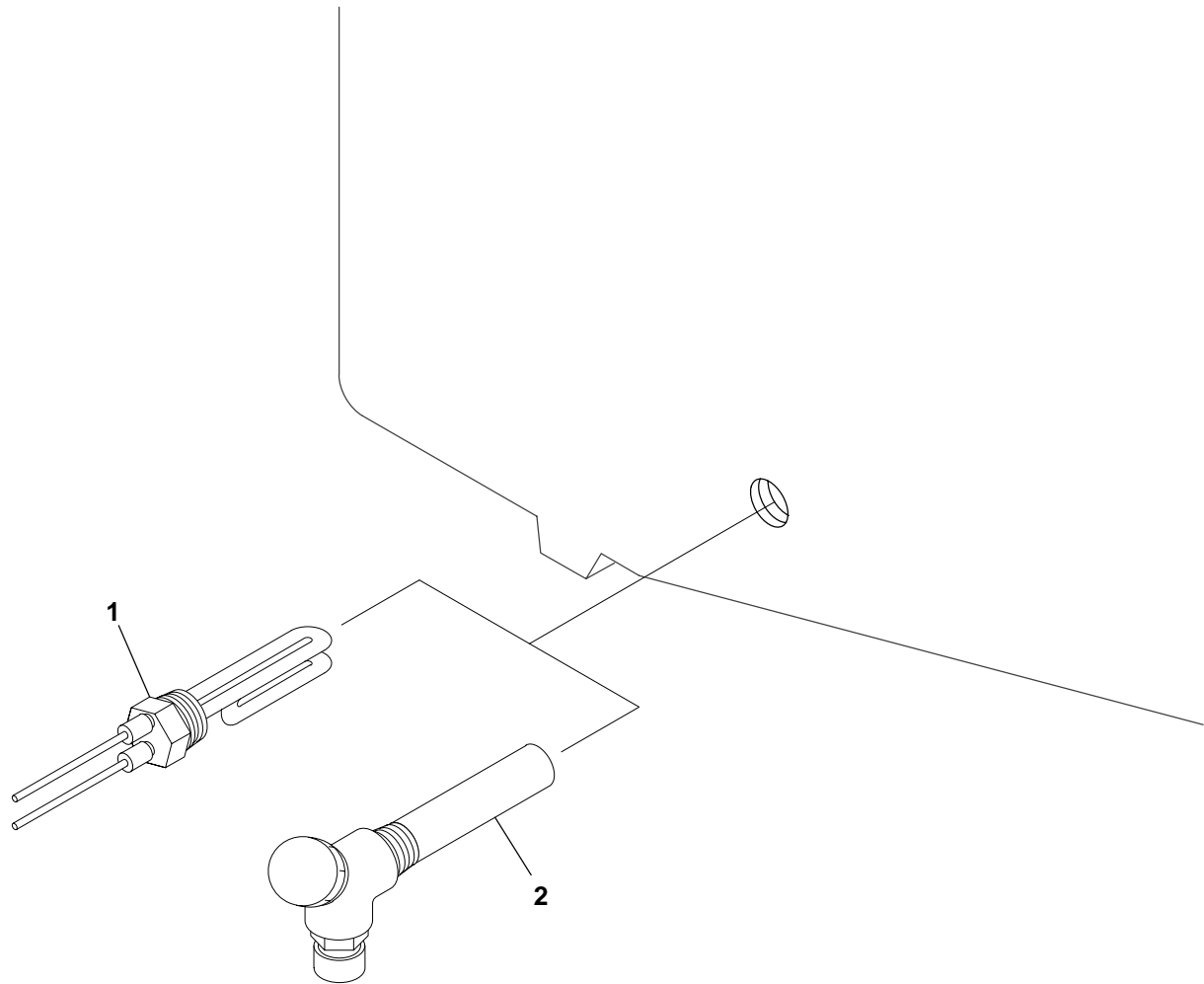


A305

**Alternator
75 Amp
DFLB Spec K Through M
DFLC Spec K Through N
DFLD
DFMB Spec K Through R**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3870	1	Guard, Belt	14	191-1942	1	Bracket, Adjusting
2	800-0237	1	Screw, Cap – Hex Head (1/2-20 x 6-1/2")	15	800-0074	1	Screw, Cap – Hex Head (7/16-14 x 1-3/4")
3	526-0353	3	Washer, Flat (1/2")	16	850-0055	2	Washer, Lock – Spring (7/16")
4	870-0452	1	Nut, Locking (1/2-20)	17	130-3871-02	1	Bracket, Belt Guard
5	511-0161-02	1	Belt, V	18	800-0069	1	Screw, Cap – Hex Head (7/16-14 x 3/4")
6	800-0092	1	Screw, Cap – Hex Head (1/2-13 x 1-1/2")	19	305-0653	1	Rectifier (35 Amp) Control Box Mounted – Generator Sets With Detector Control
7	850-0060	1	Washer, Lock – Spring (1/2")	20	191-2111	1	Bracket, Alternator
8	130-3869	1	Guard, Belt	21	191-2108	1	Support, Alternator
9	821-5004-03	1	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")	22	800-0500	2	Screw, Cap – Hex Head (7/16-14 x 5-1/2")
10	130-3868	1	Guard, Belt	23	526-0098	2	Washer, Flat (7/16")
11	191-1926-02	1	Alternator – 75 Amp	24	191-2023	2	Sleeve
12	191-2112	1	Pulley, Alternator				
13	821-5002-04	21	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")				

Oil Pan Heater

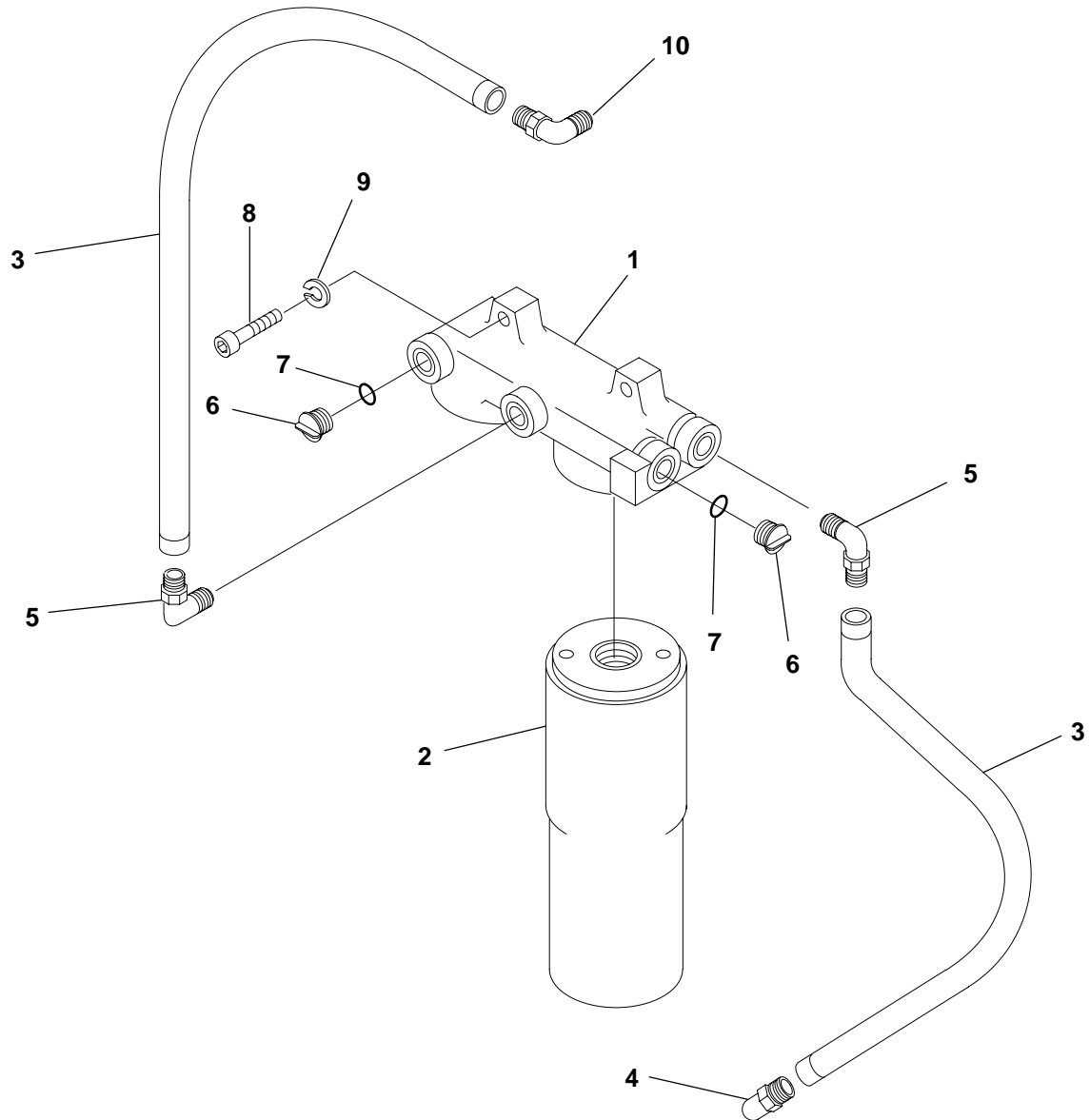


H479
H487
H488

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

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

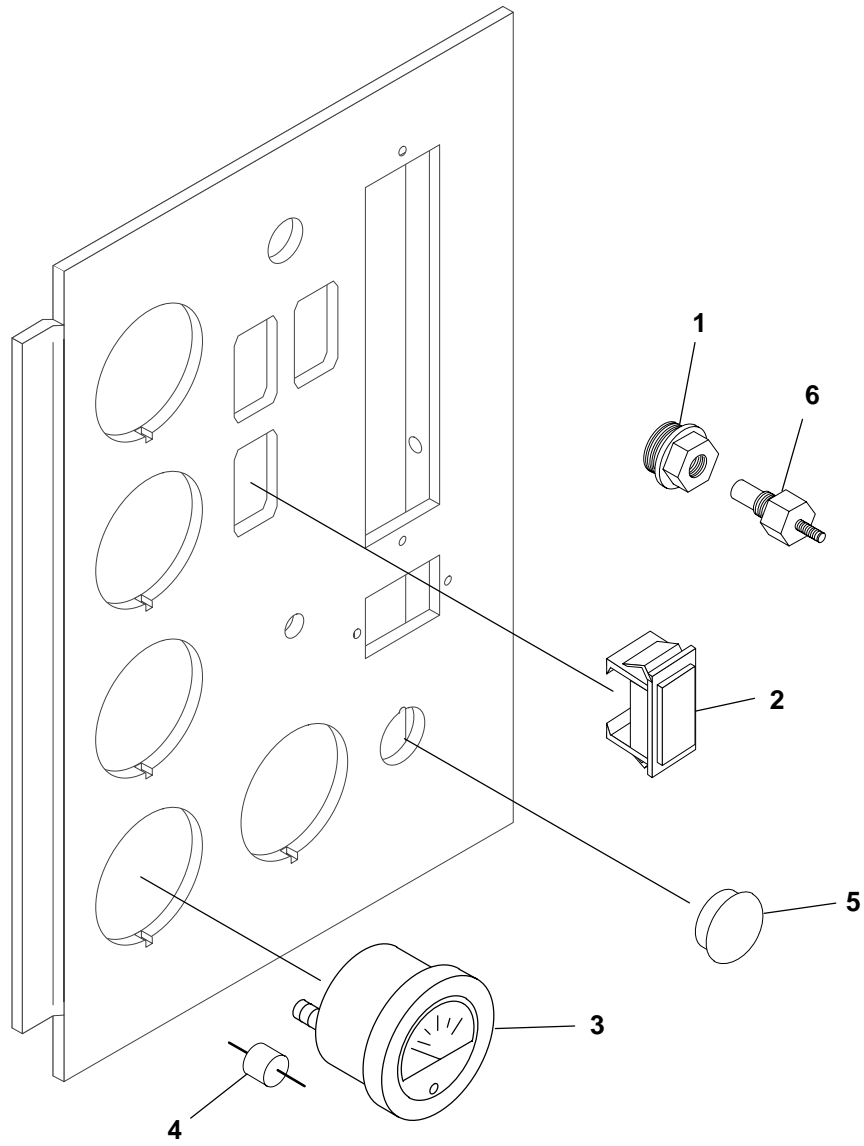
Oil Bypass Filter



H393

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0776	1	Head, Oil Filter	7	509-0272-01	2	Seal, O-Ring
2	122-0777	2	Element, Oil Filter	8	800-0075	2	Screw, Cap – Hex Head (7/16-14 x 2")
3	501-0537-49	2	Hose, Flexible (18")	9	850-0055	2	Washer, Lock – Spring (7/16")
4	502-1043-12	1	Elbow, Male Adapter	10	502-1072-30	1	Elbow, Male Union
5	502-1072-14	2	Elbow, Male Union				
6	505-1428	2	Plug, O-Ring				

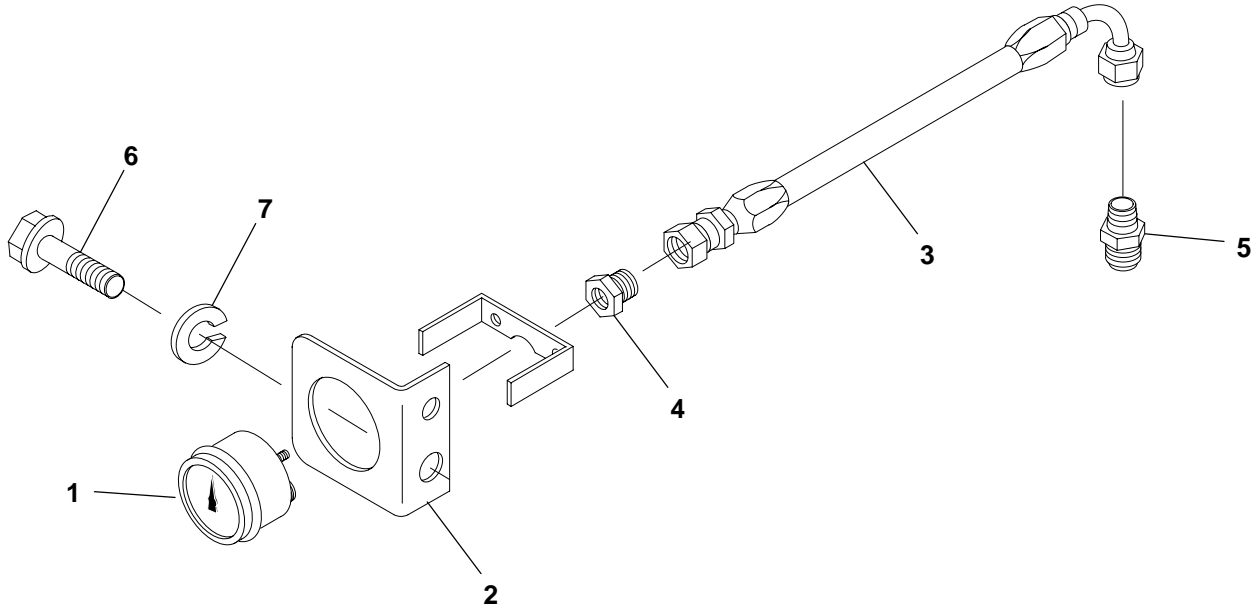
Oil Temperature Gauge



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	4	193-0250	1	Resistor, Gauge (R13)
2	301-6257	1	Switch – Blank	5	517-0137	1	Plug, Hole (7/8" Hole
3	193-0435	1	Gauge, Oil Temperature (M15)	6	193-0388	1	Sender, Oil Temperature – Oil Pan Mounted (E4)

Mechanical Oil Pressure Gauge DFLC Spec K Through L



H195

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0451	1	Gauge, Oil Pressure – 0–100 PSI (Includes Mounting Hardware)	5	502-0746	1	Connector, Male (37 Deg, 7/16–20)
2	193-0029	1	Bracket, Mounting	6	800-0151	1	Screw, Cap – Hex Head (3/4–10 x 1")
3	501-0620	1	Hose, Oil Gauge	7	850-0079	1	Washer, Lock – Spring (5/8")
4	502-1232	1	Connector, Female				

Generator

Frame 6 and Frame 7 generator component parts 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
249-0192-05	MV734WF
249-0192-06	MV734WG
249-5063-07	HC634K
249-5064-01	HC734E
249-5064-02	HC734F
249-5064-04	HC734F
249-5064-05	HC734G
249-5065-07	HC634K
249-5066-07	HC634K
249-5067-01	HC734E
249-5067-02	HC734F
249-5067-05	HC734G
249-5076-08	HC734F
249-5088-07	HC634K
249-5089-07	HC634K
249-5089-08	HC634K
249-5090-07	HC634K
249-5090-08	HC634K
249-5092-01	HC734E
249-5092-02	HC734F
249-5092-03	HC734E
249-5092-04	HC734F
249-5092-05	HC734G
249-5092-06	HC734G
249-5092-14	HC734F

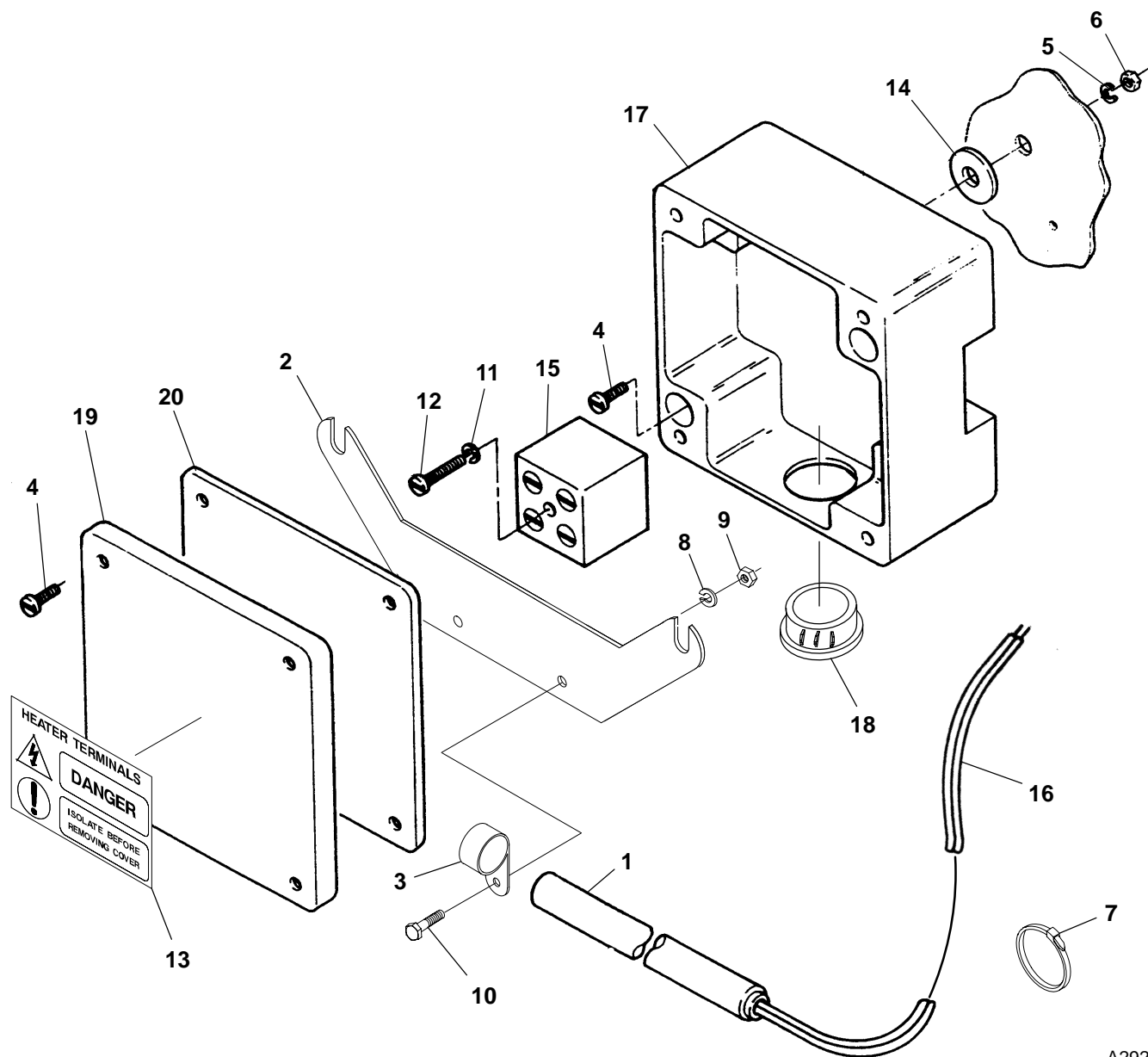
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Generator

Cummins/Onan Identification Number	Generator Model
249-5093-01	HC734E
249-5093-02	HC734F
249-5093-03	HC734E
249-5093-05	HC734G
249-5093-09	HC734E
249-5094-02	HC734F
249-5094-03	MV734WG
249-5094-08	HC734F
249-5094-09	HC734F
249-5094-10	HC734F
249-5094-11	MV734WG
249-5095-04	MV734WE
249-5095-05	MV734WF
249-5095-06	MV734WG

B246, B276, B282, B283, B284, B288, B300, B301,
B302, B306, B312, B313, B348, B360, B362, B372,
B373, B401, B422, B439

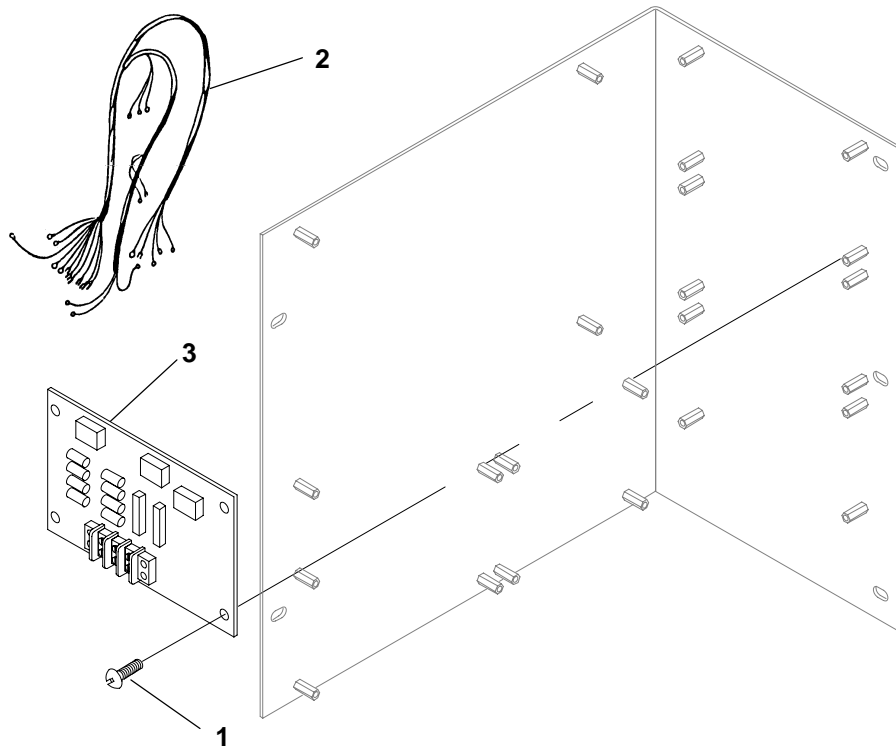
Generator Heater



A292
A293

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

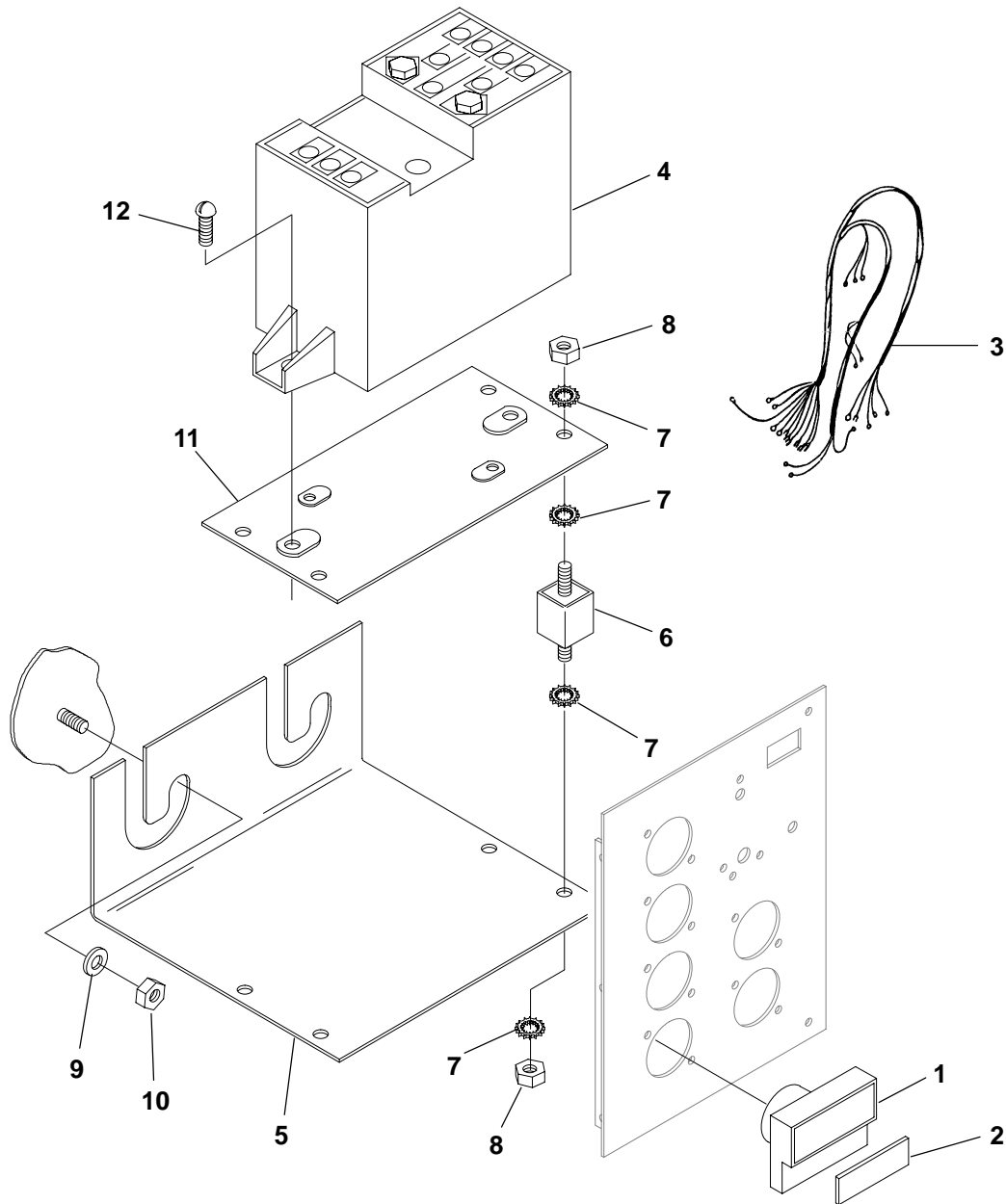
Time Delay Start/Stop



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")	2	338-1904	1	Harness, Wiring (5 Wire) (21-1/2") (A15 to A11)
				3	300-2899	1	Board, Printed Circuit – Time Delay (A15)

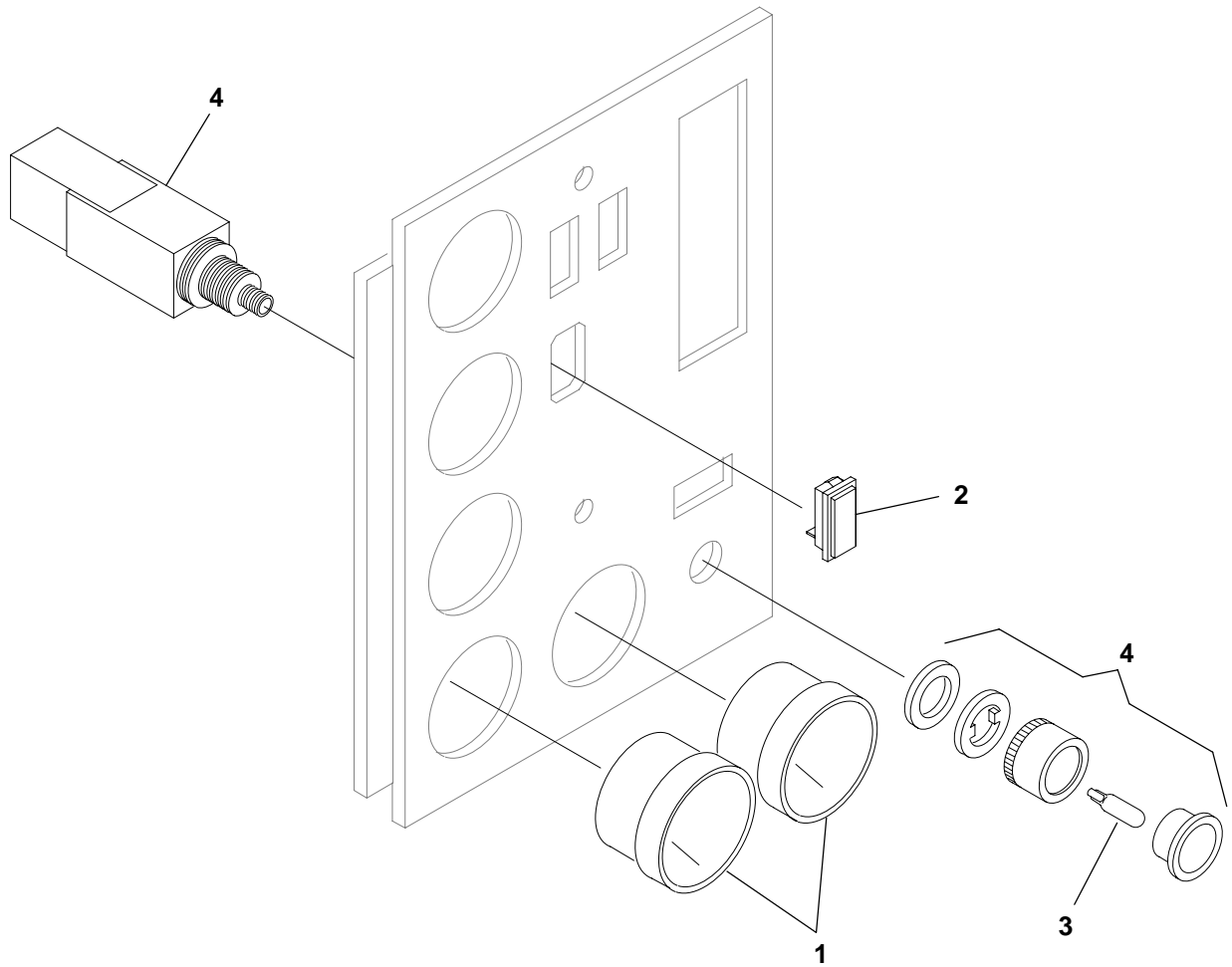
Wattmeter



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)	5	301-6987	1	Bracket, Mounting
2			Dial, Wattmeter	6	402-0354	4	Mount, Shock
	302-1721-18	1	0-1500 kW Rating,	7	853-0005	8	Washer, Lock - W/ET (8)
	302-1721-19	1	0-2000 kW Rating	8	870-0221	8	Nut, Hex W/ET (8-32)
3	338-1936	1	Harness, Wiring - Wattmeter (M24, TB21, and GND to A21)	9	526-0115	2	Washer, Flat (5/16")
4	302-1833-01	1	Transducer, Watts (A21)	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)

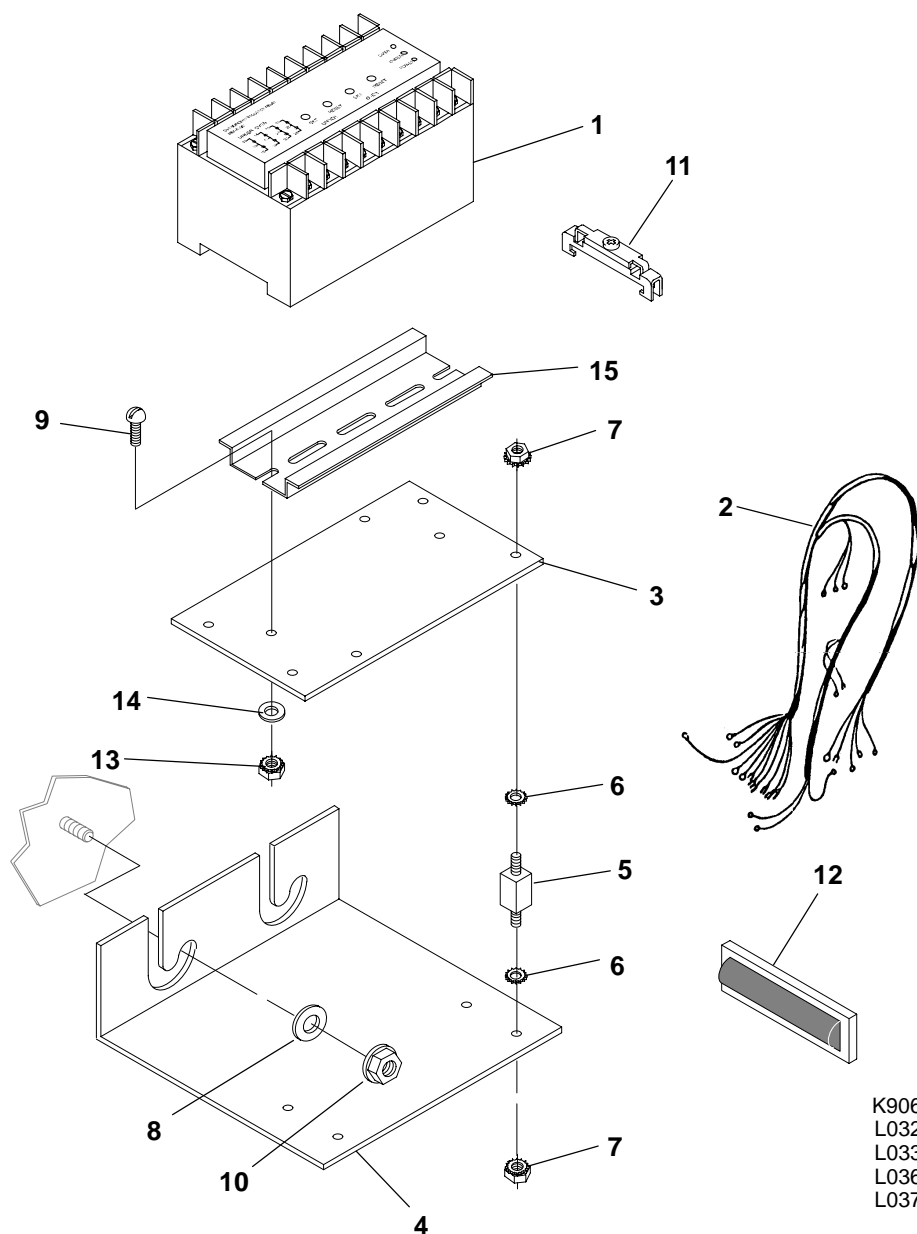
Emergency Stop Switch



K796

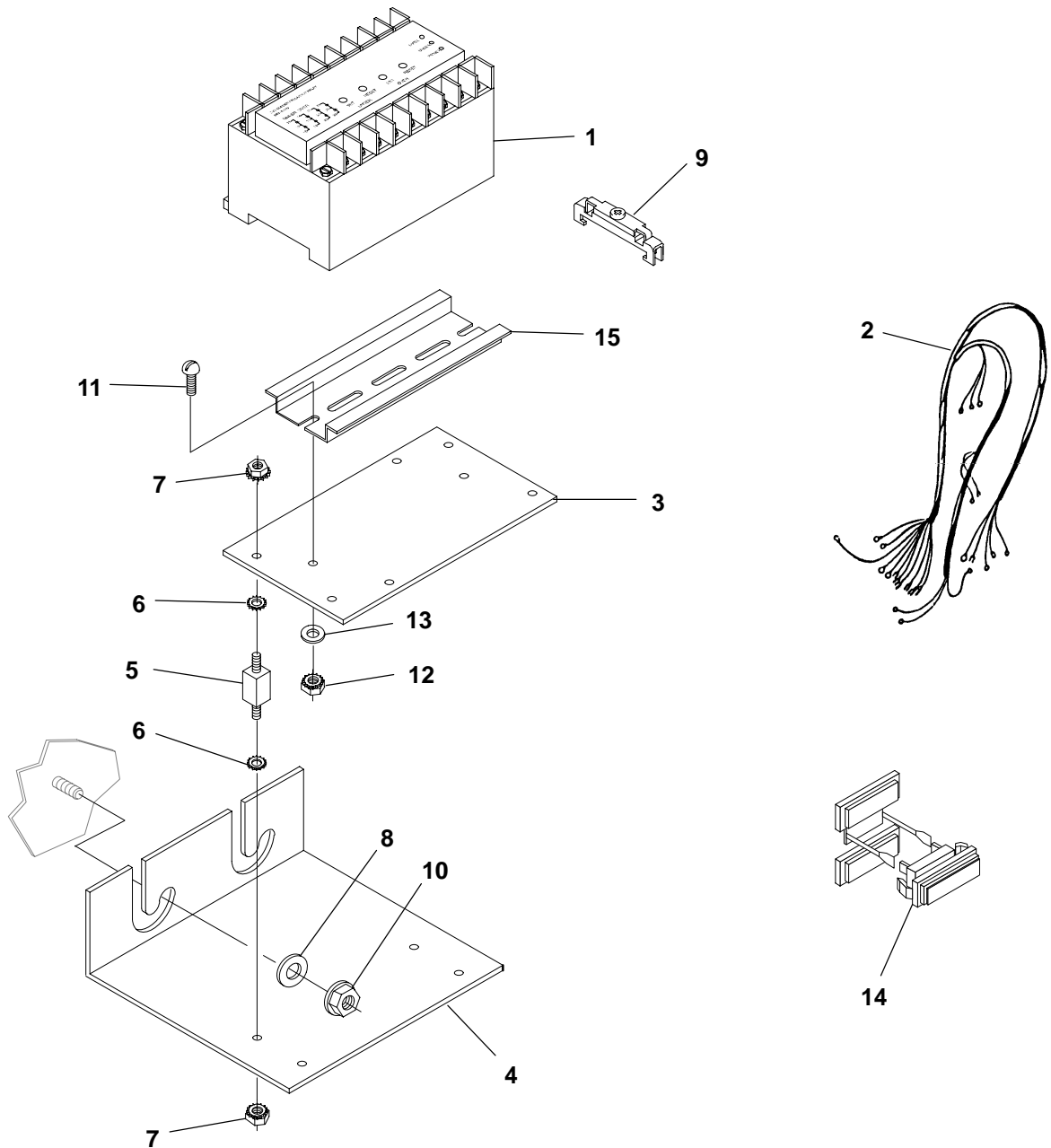
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1723	2	Ammeter – Blank Scale	4	308-0853	1	Switch, Pushbutton –
2	301-6257	1	Switch – Blank				Emergency Stop (Includes
3	322-0394	1	Bulb, Replacement				Bulb – Ref No. 3) (S14)

Over/Under Frequency Relay



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

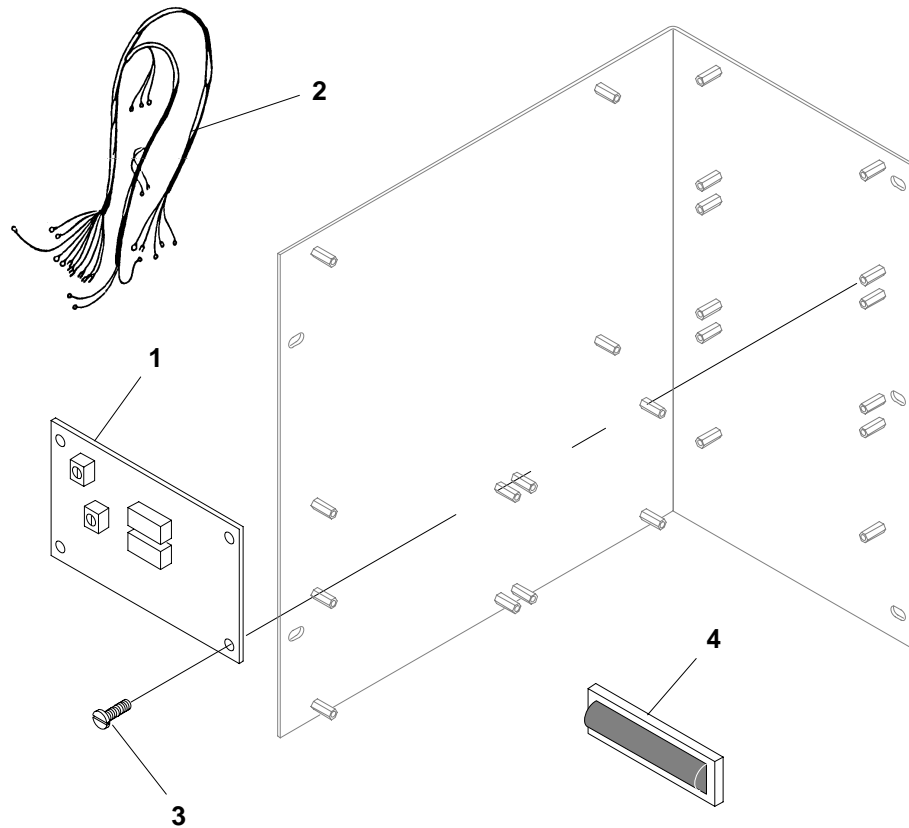
Over/Under Voltage Relay DFLB, DFLC, DFLD, DFMB Spec K



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	323-1411-01	2	Clip, End
2	338-3752	1	Harness, Wiring – Over/Under Voltage (TB21, A11, GND to A17) (4 Wire, 67")	10	870-0048	2	Nut, Hex – Self-Locking (5/16-18)
3	301-9941	1	Plate, Mounting	11	813-0100	2	Screw, Machine – Round Head (#10-32 x 1/2")
4	301-6987	1	Bracket, Mounting	12	870-0131	2	Nut, Hex – W/ET (#10-32)
5	402-0354	4	Mount, Shock	13	526-0008	2	Washer, Flat (#10)
6	853-0005	8	Washer, Lock – EIT (#8)	14	322-0384-09	1	Light, Indicator – Marked "O/U VOLT"
7	870-0221	8	Nut, Hex – W/ET (#8-32)	15	332-2879-07	1	Rail, Mounting
8	526-0115	2	Washer, Flat (5/16")				

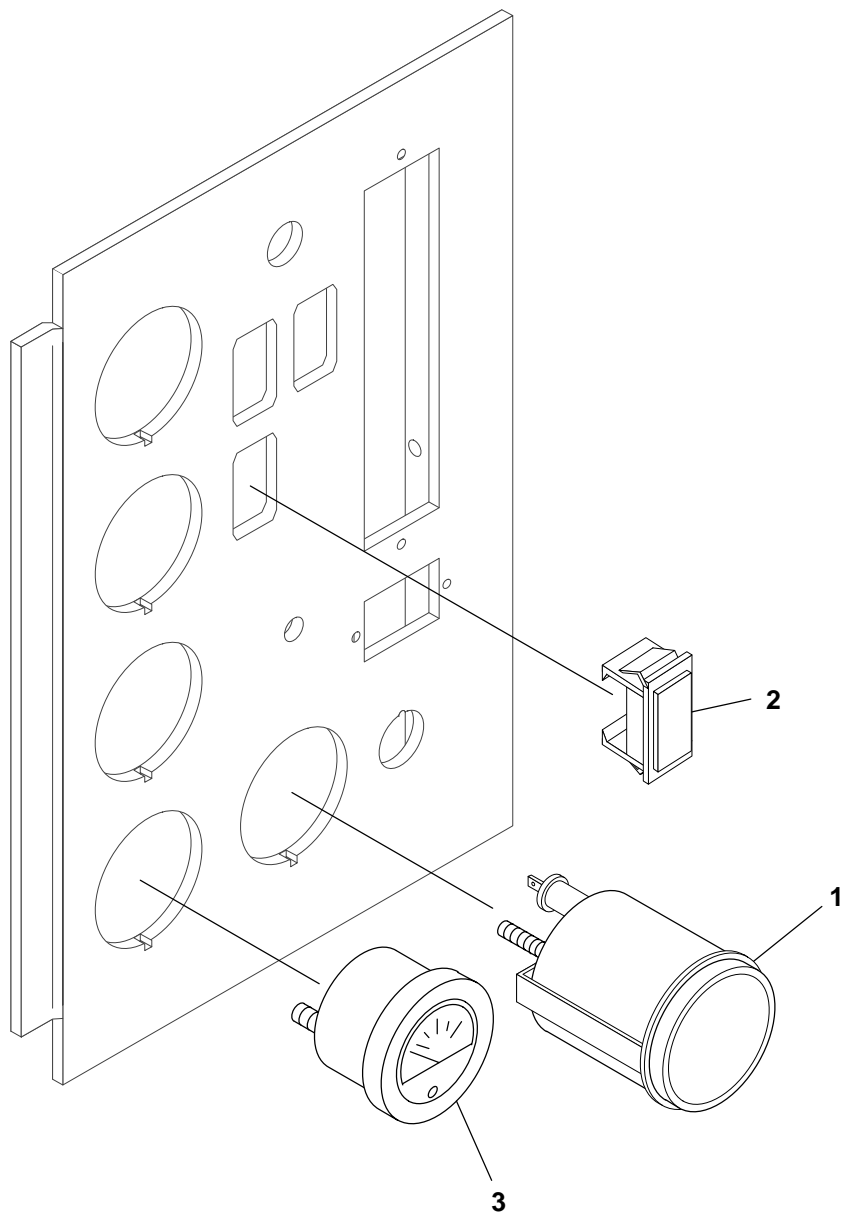
Over/Under Voltage Relay **DFLB, DFLC, DFLD, DFMB Begin Spec L**



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")

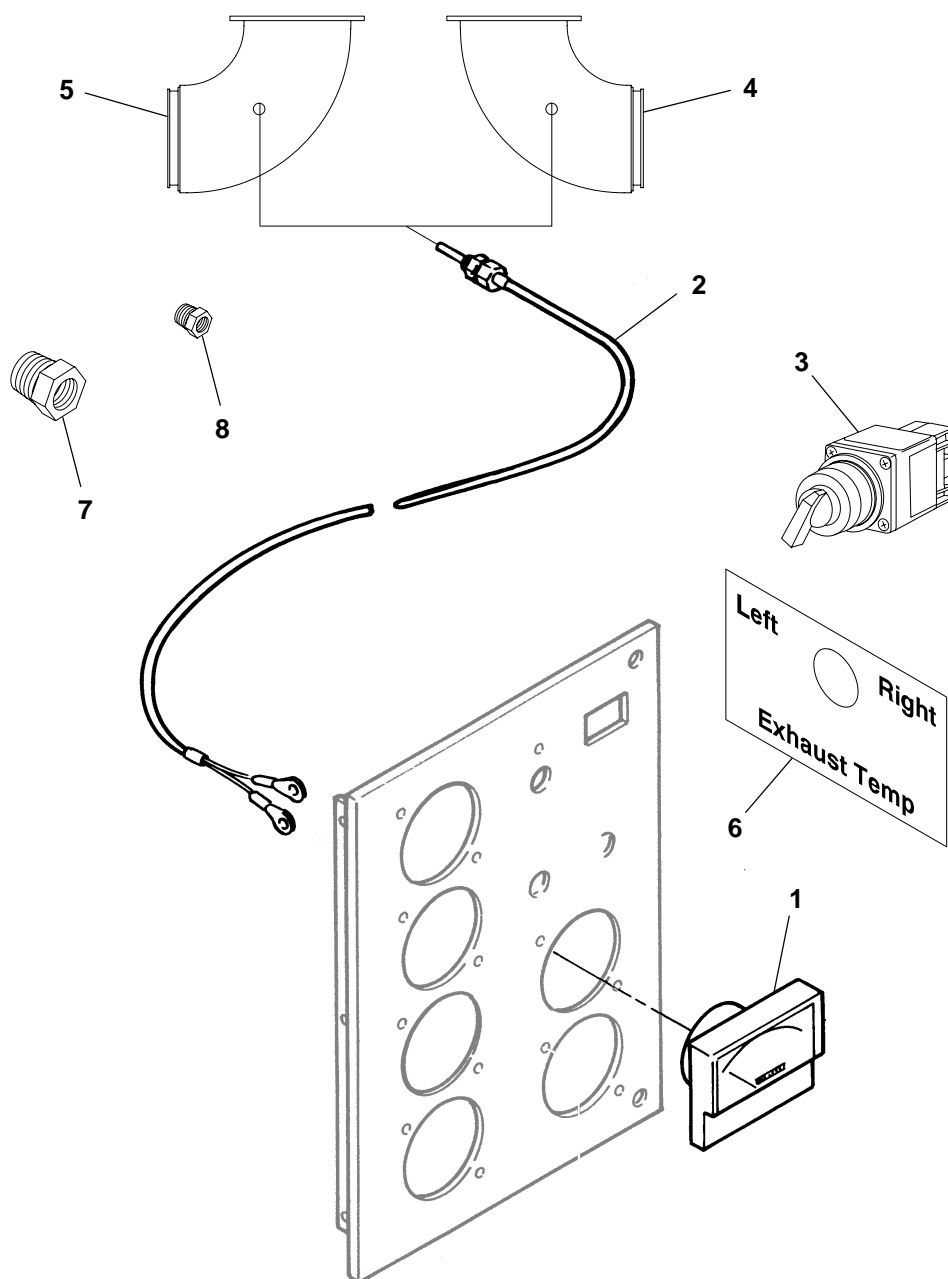
Tachometer



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

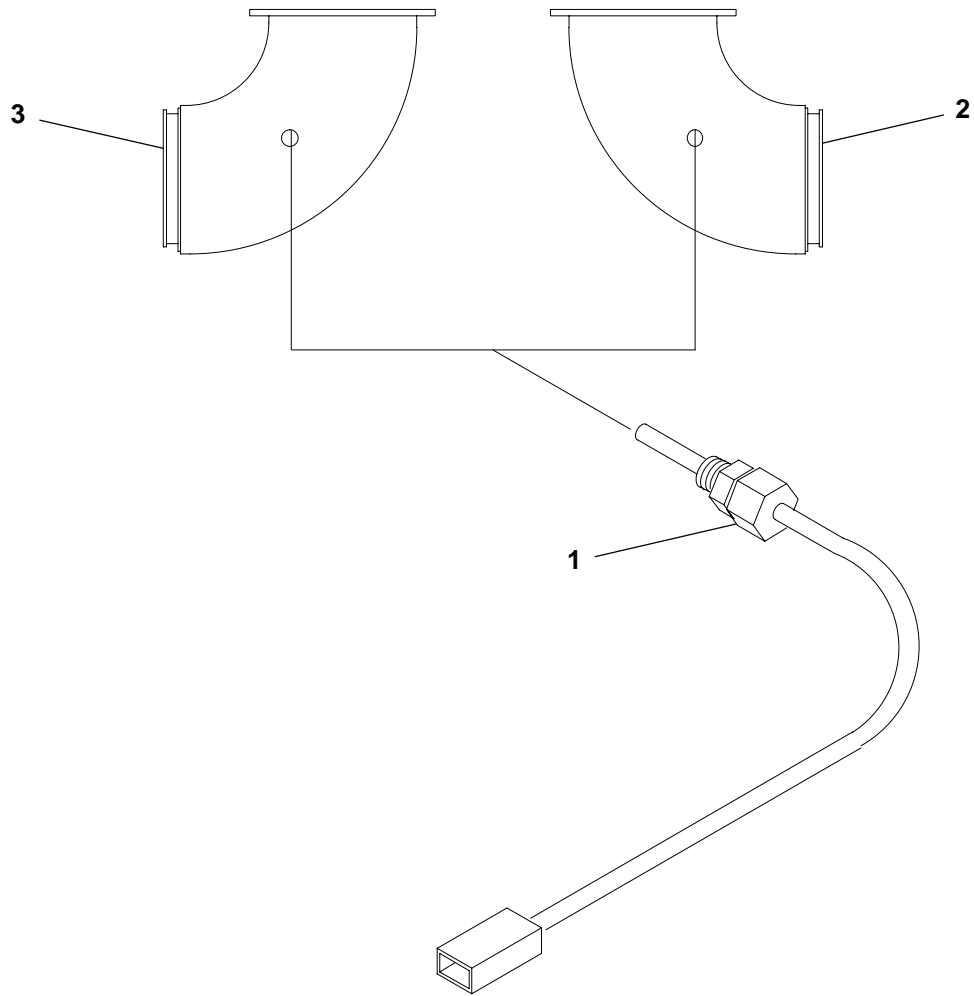
Pyrometer Generator Sets With Detector Control



H244

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1874	1	Pyrometer (M26)	5			Elbow, Exhaust – With
2			Lead, Thermocouple				Tapped Hole On The Elbow
	193-0299	1	140"		155-2531-05	1	DFLB
	193-0299-01	1	200"		155-2531-06	1	DFLC, DFLD
	193-0299-01	2	DFLC, DFLD – 200"	6	098-6625	1	Label, Exhaust Temperature
3	308-0987	1	Switch, Selector (Left/Right Exhaust)	7	505-0018	1	Bushing, Pipe – Reducer
4			Elbow, Exhaust – With				(1/2" to 1/4") – DFLC, DFLD
			Tapped Hole On The Elbow	8	505-0007	1	Bushing, Pipe – Reducer
			Side Illustrated Above				(1/4" to 1/8") – DFLC, DFLD
	155-2531-02	1	DFLB				
	155-2531-03	1	DFLC, DFLD				

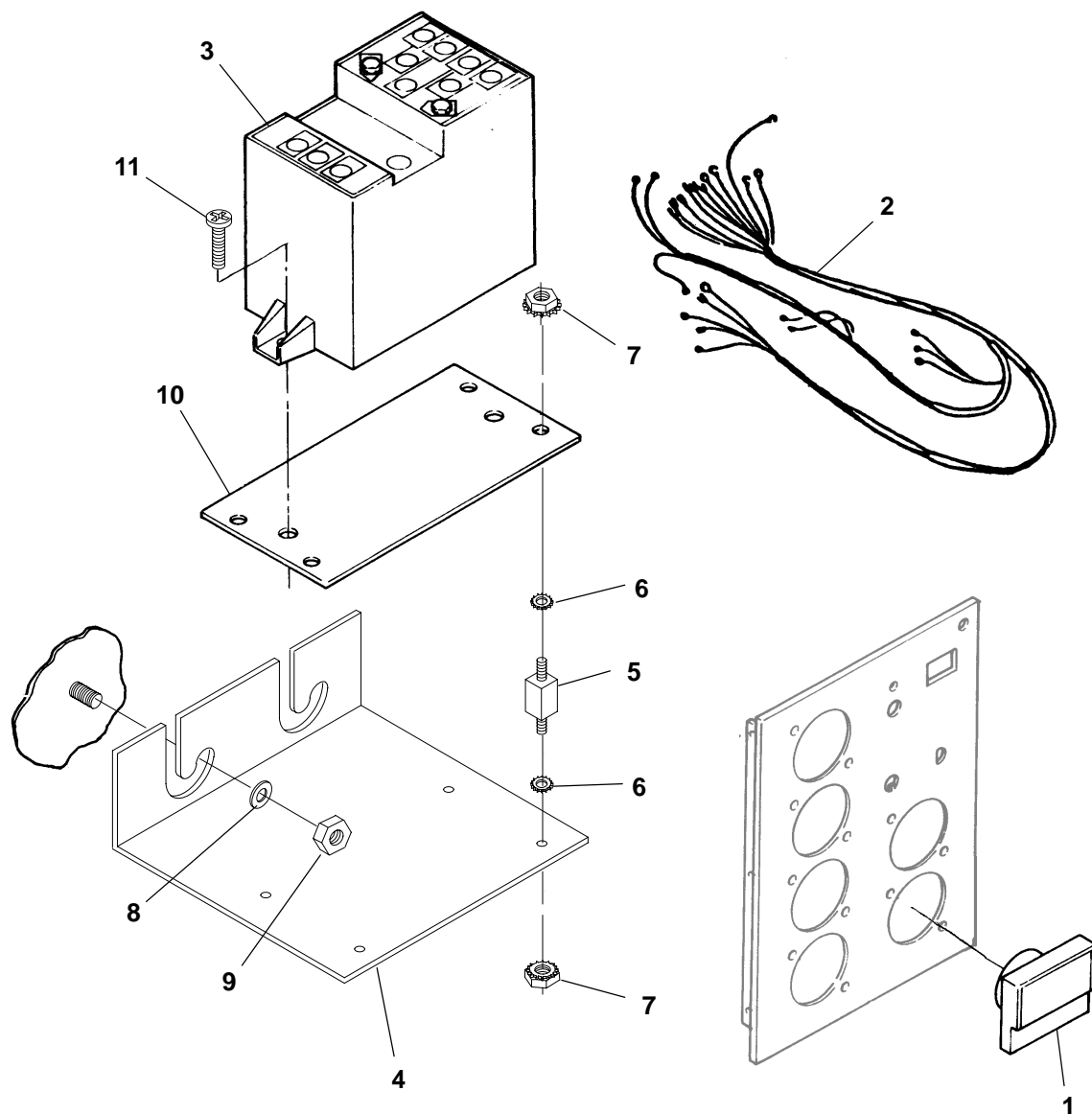
Pyrometer Generator Sets With PowerCommand Control



H244

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0446-02	1	Lead, Thermocouple	3			Elbow, Exhaust – With
	193-0446-01	1	All Generator Models – 30"				Tapped Hole On The Elbow
	193-0446-03	1	DFLB – 12"				Side Illustrated Above
2			DFLC, DFLD, DFMB – 50"	155-2531-05	1		DFLB
			Elbow, Exhaust – With	155-2531-06	1		DFLC, DFLD
			Tapped Hole On The Elbow				
			Side Illustrated Above				
	155-2531-02	1	DFLB				
	155-2531-03	1	DFLC, DFLD				

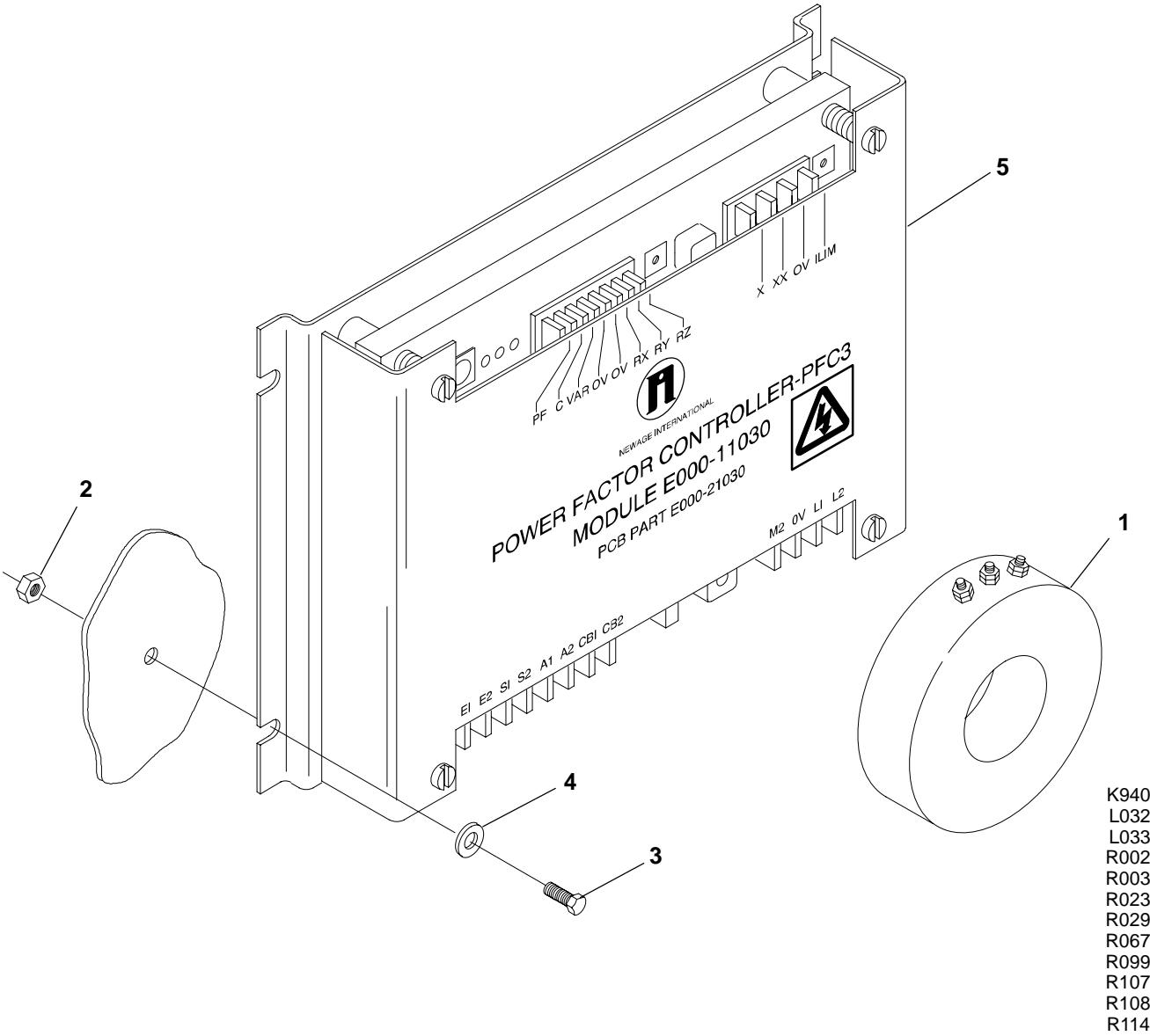
Power Factor Meter



K264

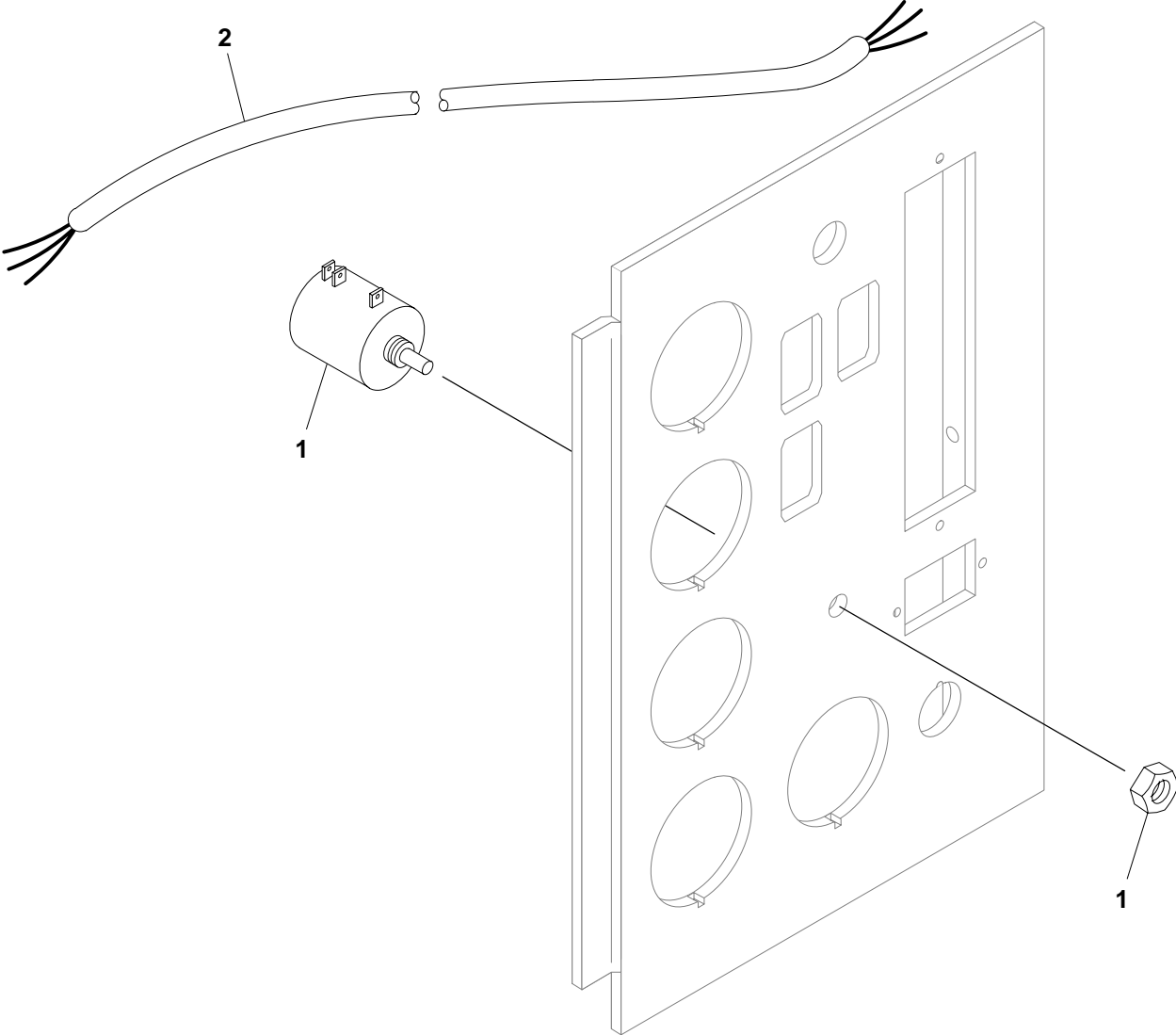
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1883	1	Meter, Power Factor (M25)	7	870-0221	8	Nut, Hex - W/ET (#8-32)
2	338-2368	1	Harness, Wiring - Meter (6 Wire, 44") (M25, TB21, GND to A22)	8	526-0115	2	Washer, Flat (5/16")
3	302-1833-03	1	Transducer, Watts (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)				

VAR Power Factor Controller



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1845-05	1	Transformer, Current (CT25)	3	813-0103	4	Screw, Machine – Round Head (#10-32 x 3/4")
	302-1794-11	1	Ratio 300/5	4	526-0008	4	Washer, Flat (#10)
	302-1794-13	1	Ratio 1500/5	5	305-0870	1	Controller, Power Factor (VAR)
	302-1794-14	1	Ratio 3000/5				
2	870-0131	4	Ratio 4000/5				
			Nut, Hex – W/EIT (#10-32)				

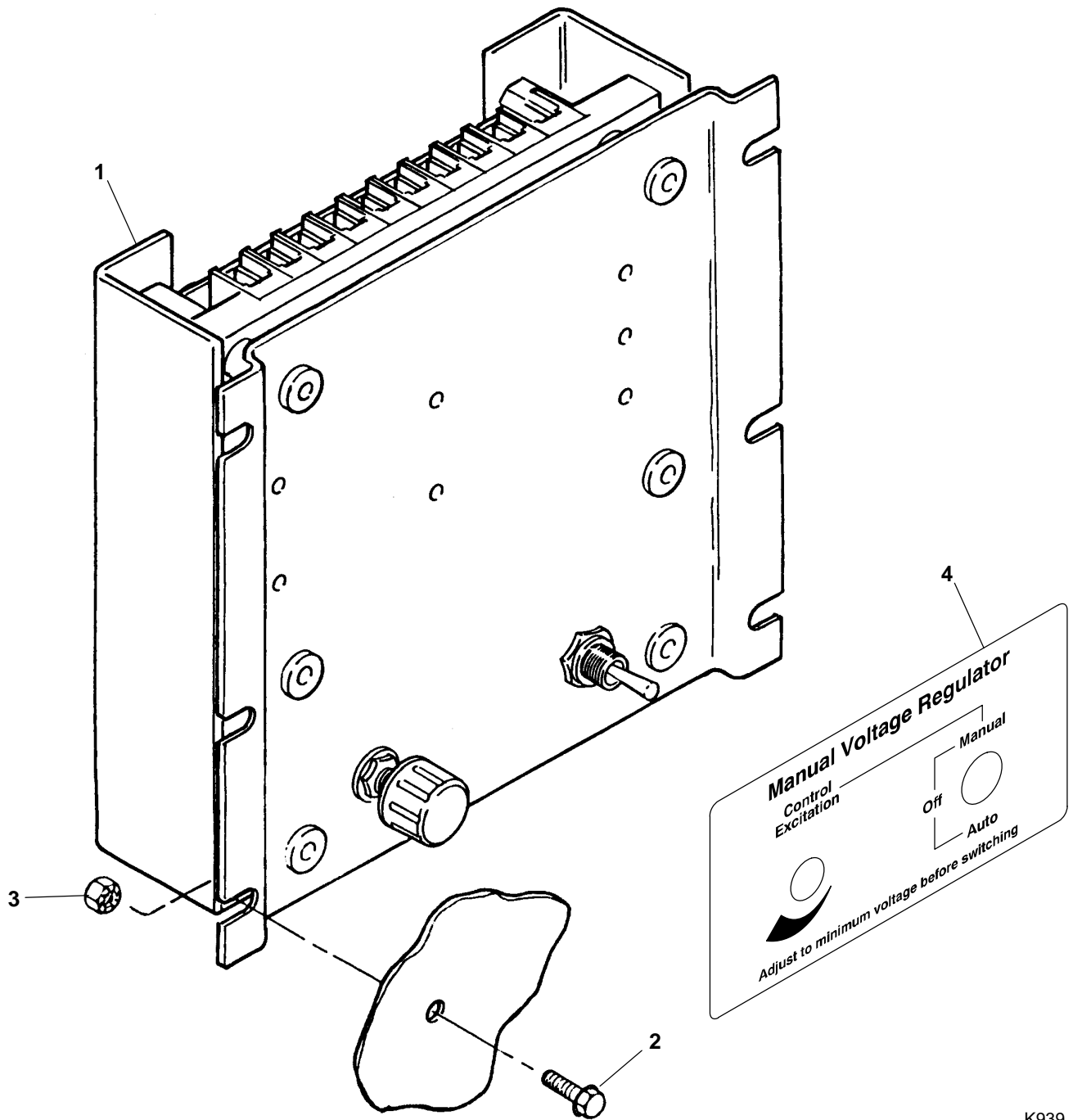
Potentiometer
Speed Adjusting



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				

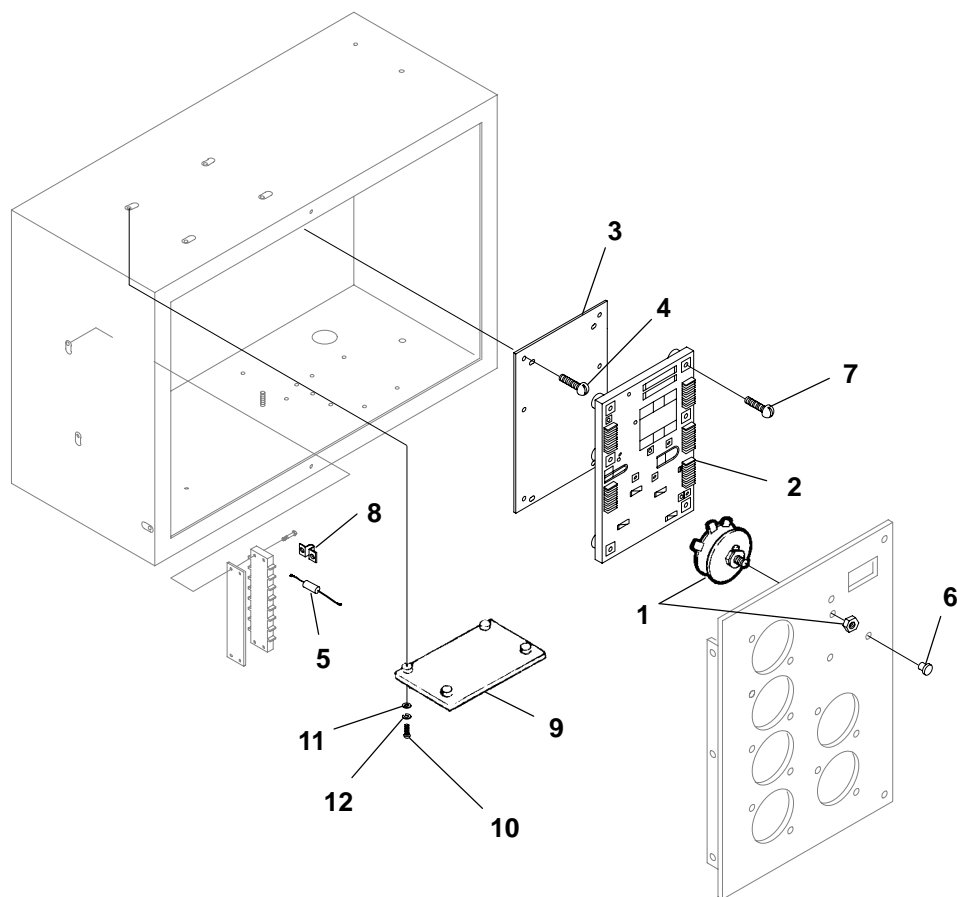
Manual Voltage Regulator



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

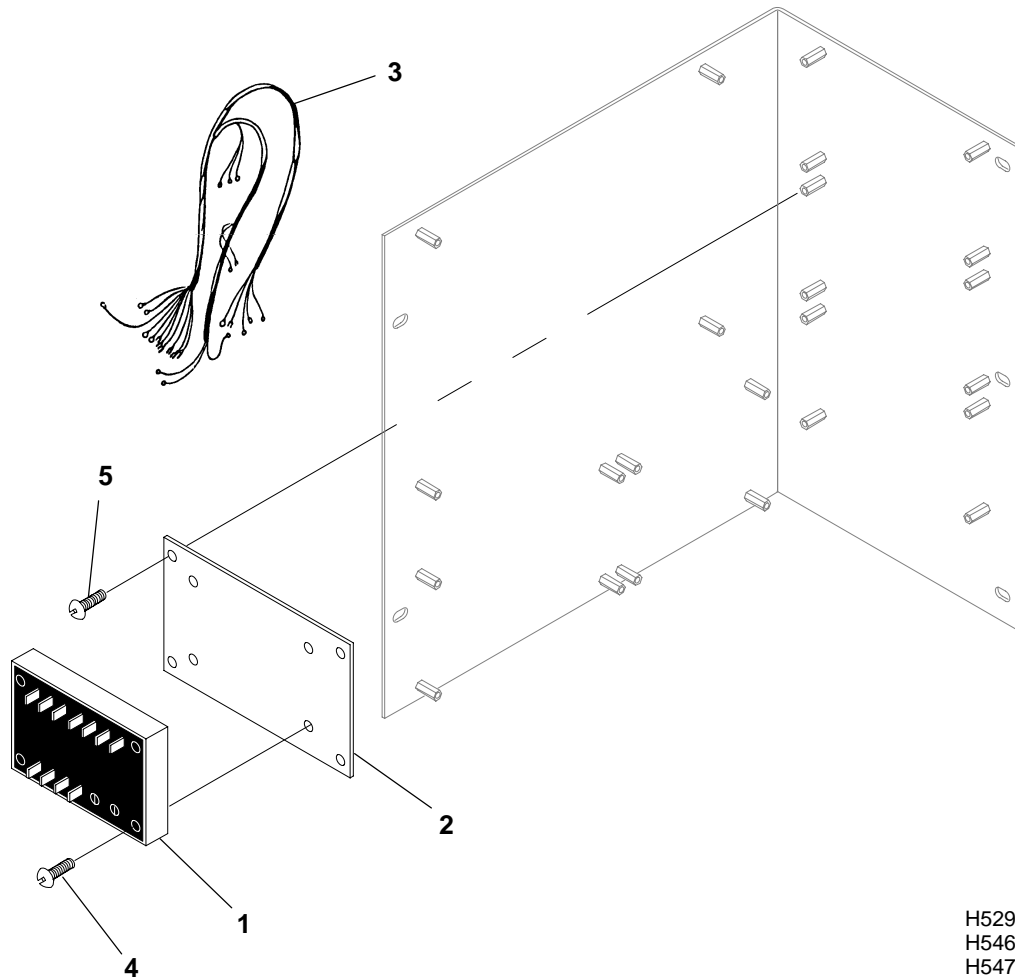
Voltage Regulator Generator Sets With Detector Control



B246
H529
H546
H547
K001

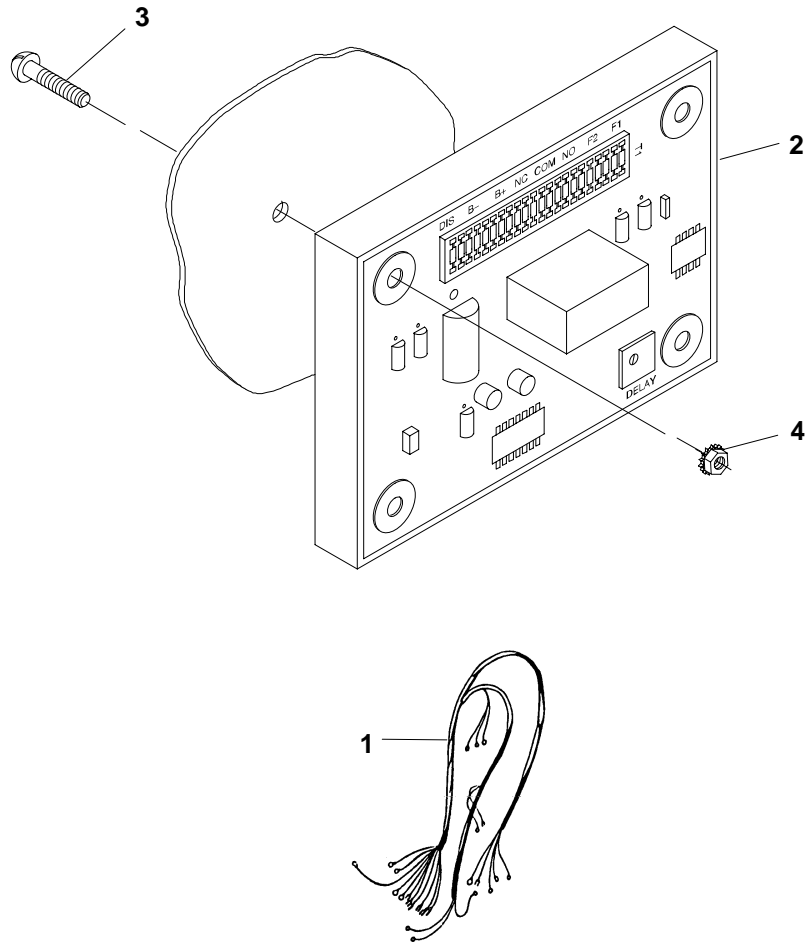
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	303-0285-01	1	* Potentiometer – Voltage Adjust (5K Ohms) (Used With Model MX321 Voltage Regulator) (R21)	7	812-0084	4	Screw, Machine – Round Head (#8–32 x 1")
2	305-0823	1	Board, Printed Circuit – Voltage Regulator (MX321) (VR21)	8	332-1043	1	Jumper (Used On TB21)
3	319-0652	1	Plate, Mounting	9	305-0868	1	* Board, Printed Circuit – Isolation Transformer (T30) DFLB
4	815-0937	6	Screw, Machine – Round Head – Cross Recessed W/IT (#6–32 x 1/2")	10	813-0108	4	* Screw, Machine – Round Head (#10–32 x 1-1/2") DFLB
5	350-1222	1	Resistor (1.5K Ohms) (Used On TB21)	11	526-0008	4	* Washer, Flat (#10) DFLB
6	517-0131	1	Plug, Hole (Fits 3/8" Hole)	12	850-0030	4	* Washer, Lock – Spring (#10) DFLB
				* – Not Used On All Models			

Electronic Overspeed



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	338-2529	1	Harness, Wiring – Electronic Overspeed (AUX to A11, A16) (6 Wire, 74")				

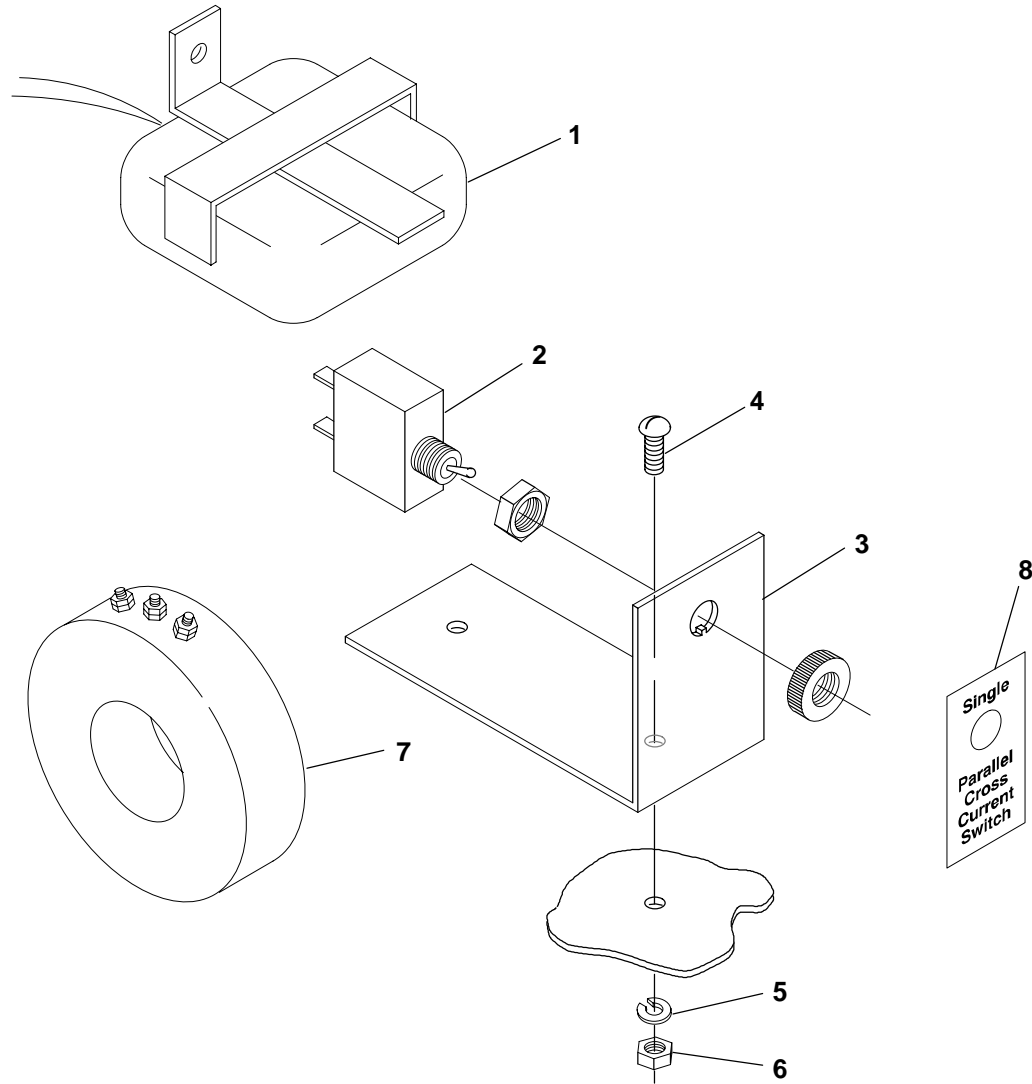
Excitation Loss Module



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)

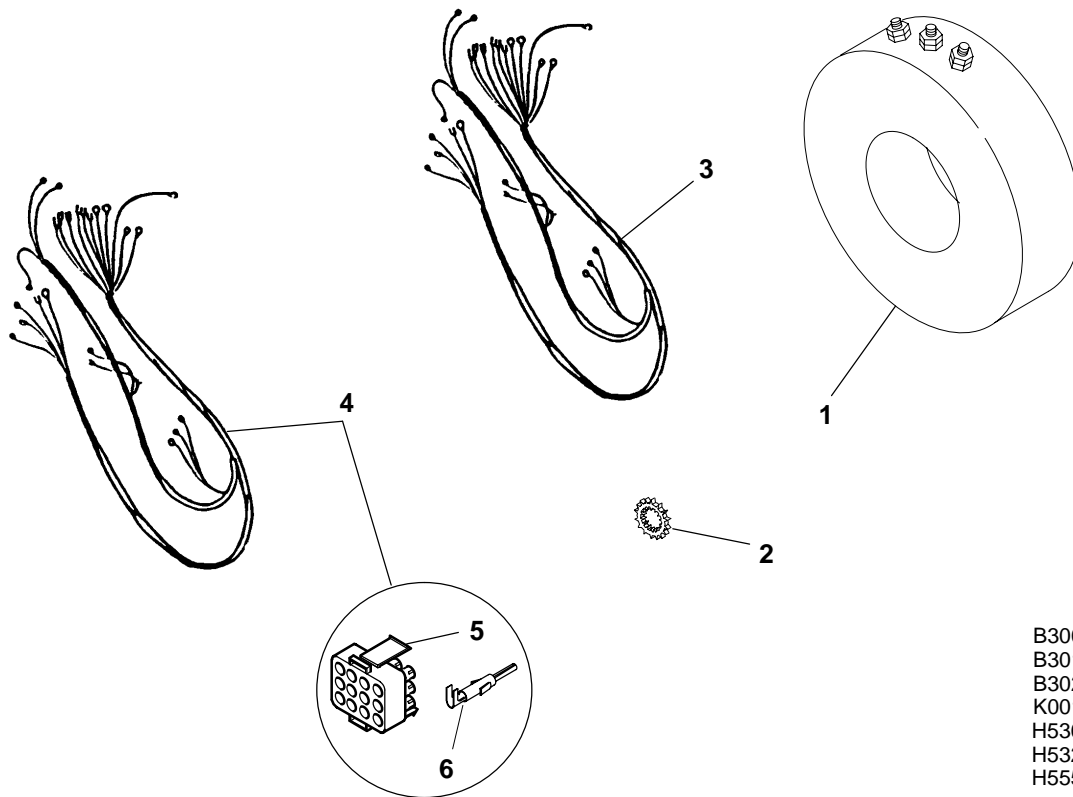
Cross Current Compensation Circuit



KJ35
K611
R107
R108

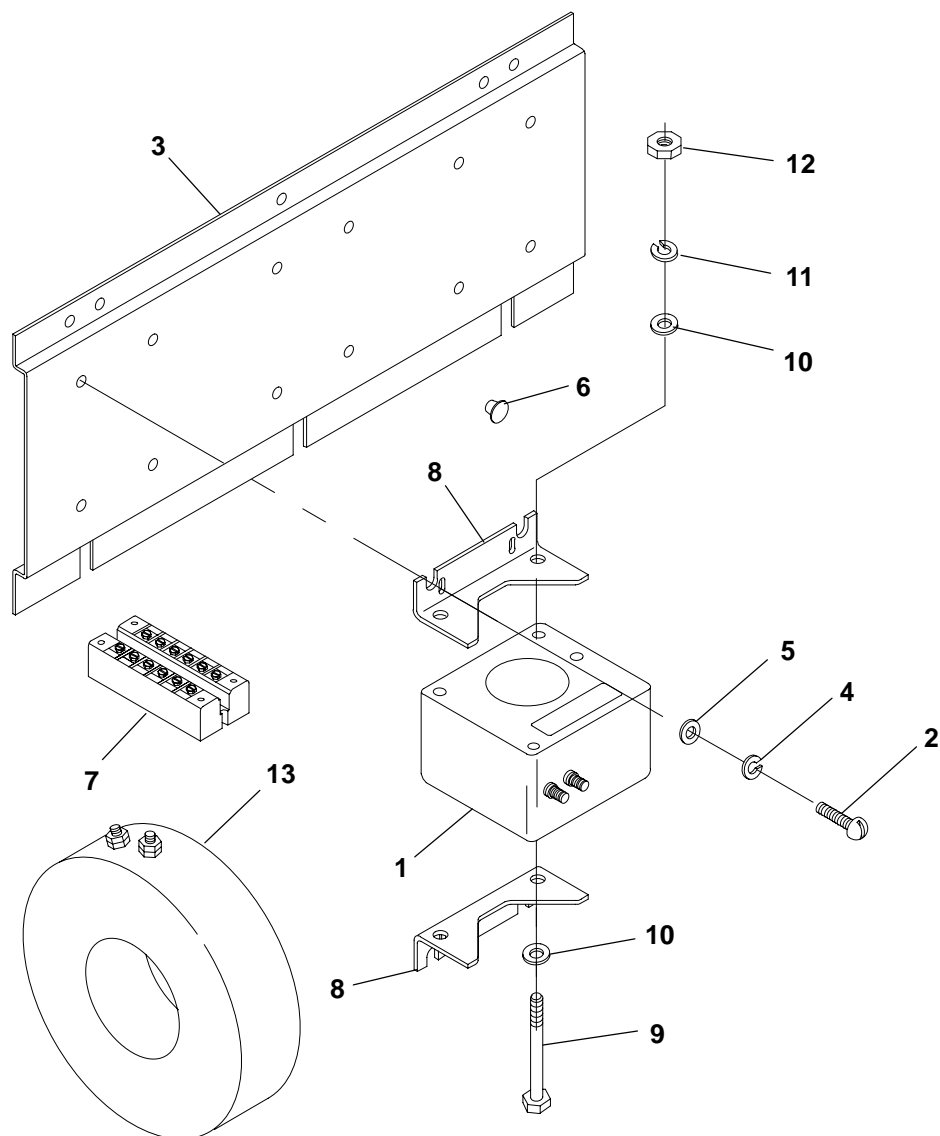
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1852-02	1	Transformer, Current (CT) 600:0.37 Ratio – DFLB Begin Spec N DFLC, DFMB Begin Spec P	2	308-0069	1	Switch, Toggle (S22)
	302-1852-03	1	600:0.38 Ratio – DFLB Spec K Through M DFLC, DFMB Spec K Through N	3	301-9657	1	Bracket, Mounting
	302-1852-06	1	400:0.32 Ratio – DFMB Spec M	4	813-0100	2	Screw, Machine – Round Head (#10-32 x 1/2")
	302-1852-07	1	1000:0.38 Ratio – DFLB Begin Spec N	5	850-0030	2	Washer, Lock – Spring (#10)
				6	870-0053	2	Nut, Hex (#10-32)
				7	302-1926-30	1	Transformer, Current – 1667/1 Ratio (CT)
				8	098-2313	1	Label, Cross Current Switch

Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT21, CT22, CT23)		302-1926-21	3	Ratio 122/1
			Generator Sets With Detector Control		302-1926-23	3	Ratio 170/1
					302-1926-26	3	Ratio 302/1
					302-1926-28	3	Ratio 422/1
302-1845-07	3	Ratio 250/5 or 500/5		2	856-0008	2	Washer, Lock – EIT (5/16") (Grounding Wires)
302-1845-08	3	Ratio 375/5 or 750/5					
302-1794-13	3	Ratio 1500/5 or 3000/5		3	338-2532	1	Harness, Wiring – Generator Sets With Detector Control (7 Wire, 79") (TB21 To GND, CT21, CT22, CT23
302-1794-14	3	Ratio 2000/5 or 4000/5					
302-1794-15	3	Ratio 3000/5 or 6000/5	Generator Sets With Power Command Control	4	338-3019	1	Harness, Wiring – Generator Sets With PowerCommand Control (Includes Plug And Socket Contacts – Ref No. 5 and 6) (10 Wire, 60") (P9 To CT21, CT22, CT23 And 5, 6, 7, 8)
302-1922-10	3	Ratio 394/1 or 788/1					
302-1922-12	3	Ratio 473/1 or 946/1					
302-1922-16	3	Ratio 604/1 or 1208/1					
302-1922-18	3	Ratio 656/1 or 1312/1					
302-1922-21	3	Ratio 789/1 or 1578/1					
302-1922-39	3	Ratio 2523/1 or 5046/1					
302-1922-40	3	Ratio 2762/1 or 5524/1		5	323-1644-03	1	Plug – 12 Place – Generator Sets With PowerCommand Control (P9)
302-1926-11	3	Ratio 3470/1					
302-1926-13	3	Ratio 3943/1					
302-1926-14	3	Ratio 4144/1		6	323-1648	10	Socket, Contact – Generator Sets With PowerCommand Control
302-1926-16	3	Ratio 4731/1					
302-1926-17	3	Ratio 8211/1					
302-1926-18	3	Ratio 6832/1					

Differential Current Transformer

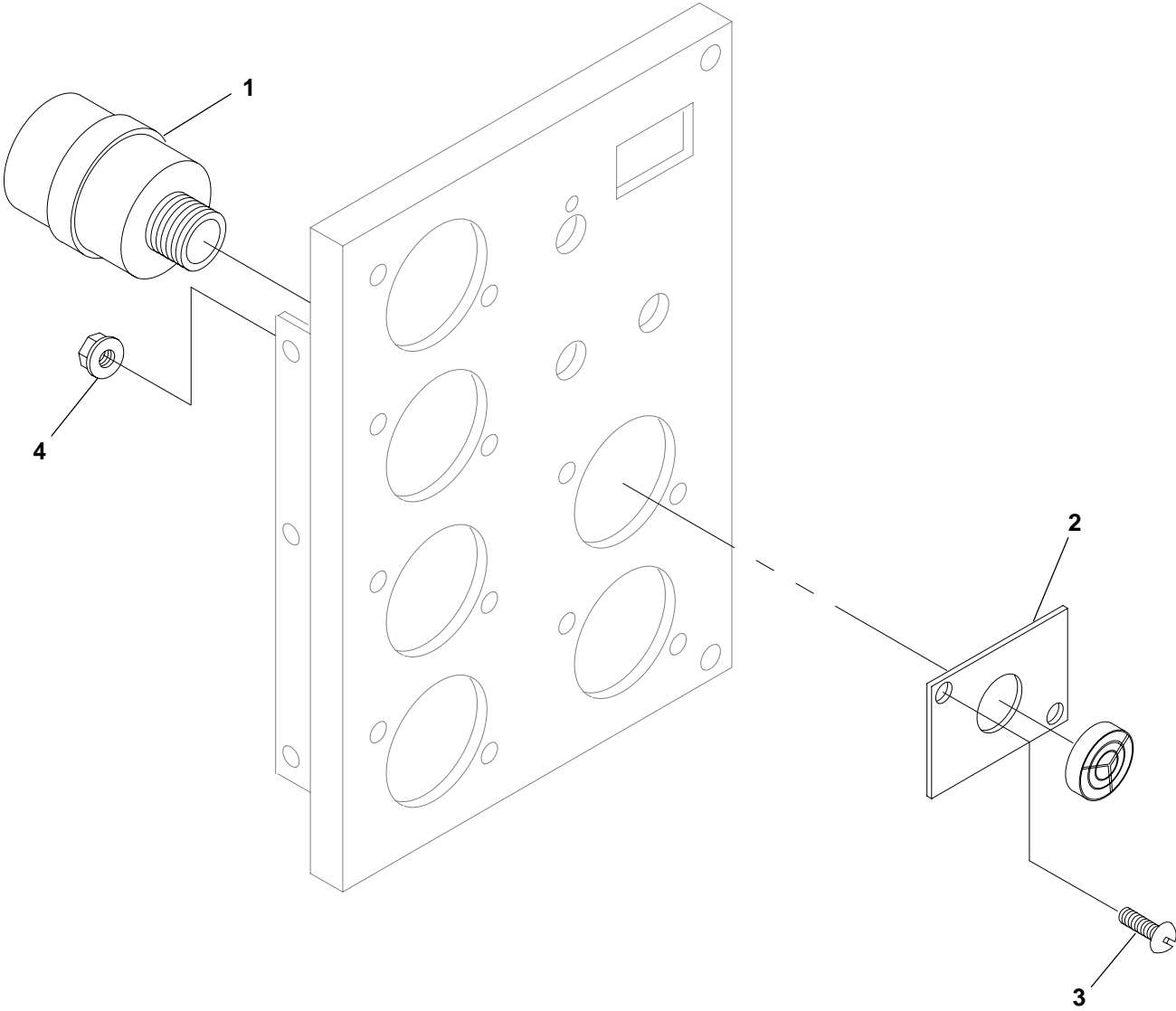


K993
R002
R107
R108
R114

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current – 5kV (U1, V1, W1)	8	319-3297	6	* Bracket, Foot
	302-1945-01	3	Ratio 200/5	9	800-0039	6	* Screw, Cap – Hex Head (5/16-18 x 3-1/2")
	302-1945-03	3	Ratio 100/5	10	526-0022	12	* Washer, Flat (5/16")
	302-1945-04	3	Ratio 250/5	11	850-0045	6	* Washer, Lock – Spring (5/16")
	302-1945-05	3	Ratio 300/5	12	862-0015	6	* Nut, Hex (5/16-18)
	302-1945-06	3	Ratio 400/5	13			Transformer, Current – 600V (CT1, CT2, CT3)
	302-1945-08	3	Ratio 600/5		302-1961-11	3	Ratio 1500/5
	302-1945-10	3	Ratio 75/5		302-1961-12	3	Ratio 1600/5
	302-1945-11	3	Ratio 800/5		302-1961-13	3	Ratio 1800/5
2	813-0098	12	* Screw, Machine – Round Head (#10-32 x 3/8")		302-1961-14	3	Ratio 2000/5
3	319-1265	1	* Bracket, Current Transformer		302-1961-15	3	Ratio 2500/5
4	850-0030	12	* Washer, Lock – Spring (#10)		302-1961-16	3	Ratio 3000/5
5	526-0008	12	* Washer, Flat (#10)				
6	517-0090	1	Plug, Hole (Fits 5/16" Hole) (Quantity Used As Required)				
7	332-3178-01	1	Block, Terminal (6 Place) (SCB)				

* – Mounting Hardware and Brackets Used with 5kV
Current Transformers

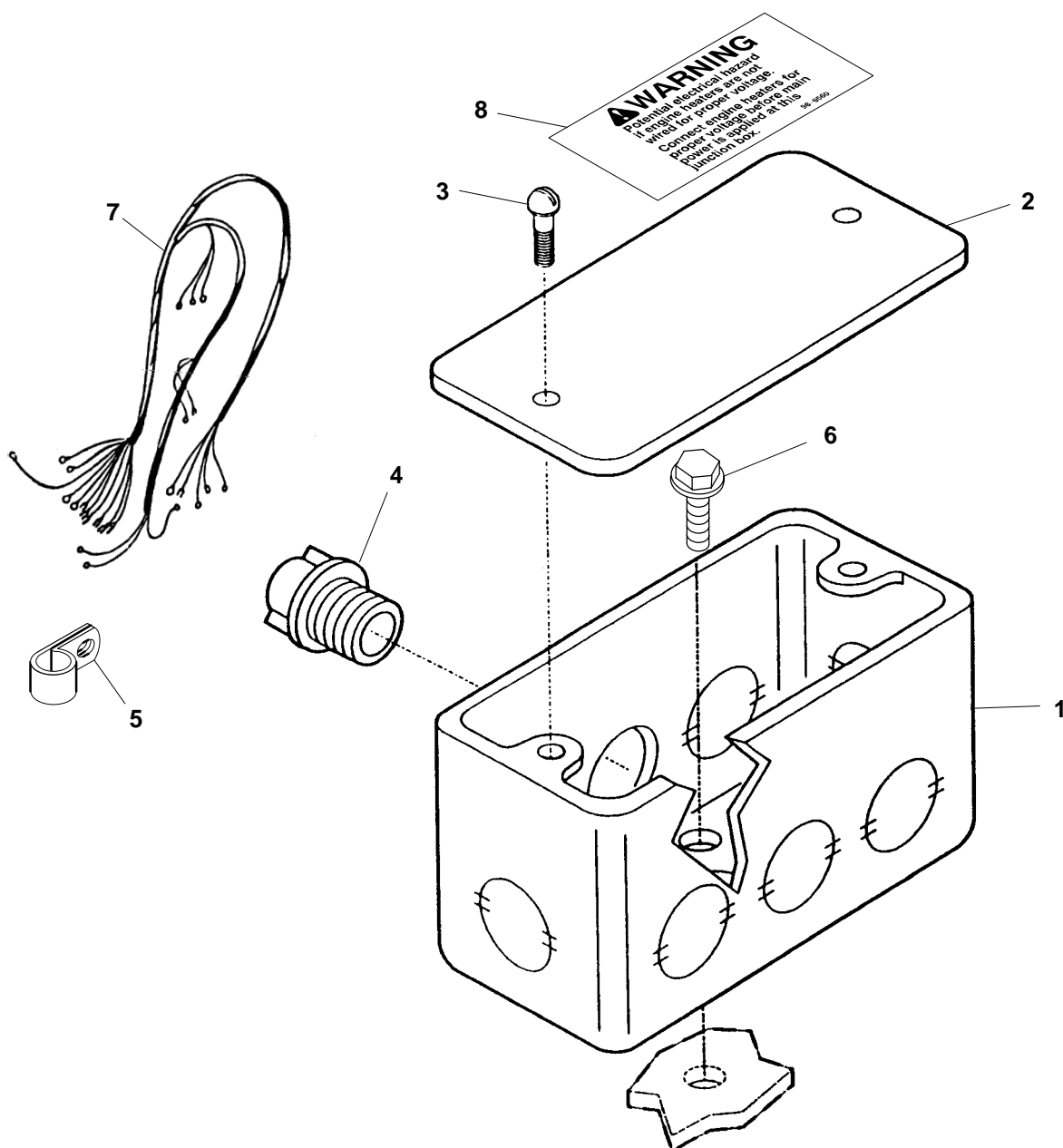
**Audible Alarm
Generator Sets With Detector Control**



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)

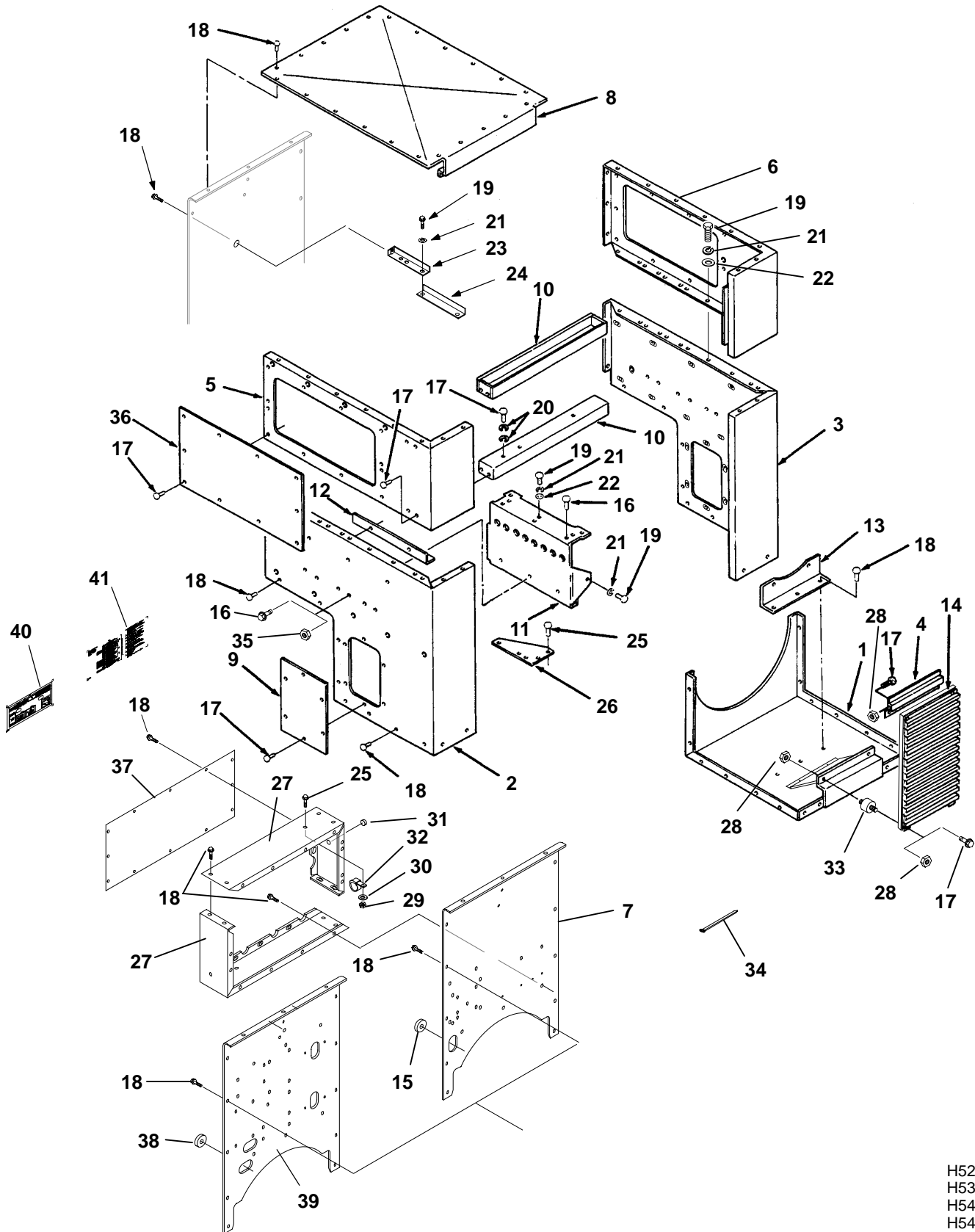
Junction Box
Engine Coolant Heater
DFLA, DFLB Spec K Through L, DFLC Spec K Through L
DFLD Spec K Through ?



K505

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	330-0005	1	Box, Junction	7			Harness, Wiring – Junction
2	330-0004	1	Cover, Junction Box				Box to Coolant Heater (3
3	812-0079	2	Screw, Machine – Round Head (#8-32 x 1/2")				Wire) (GND, Black, White
4	331-0027	4	Connector, Knockout				to GND-GND, HTR-TH,
5	332-2634	1	Clamp, "J"		338-2544	1	HTR-EL)
6	815-0340	2	Screw, Locking – Hex Washer Head (#10-32 x 3/8")		338-2545	1	36"
				8	098-6560	1	70"
							Tag, Warning

**Control Housing
DFLB Spec K Through M
DFLC Spec K Through N, DFLD
DFMB Spec K Through N**

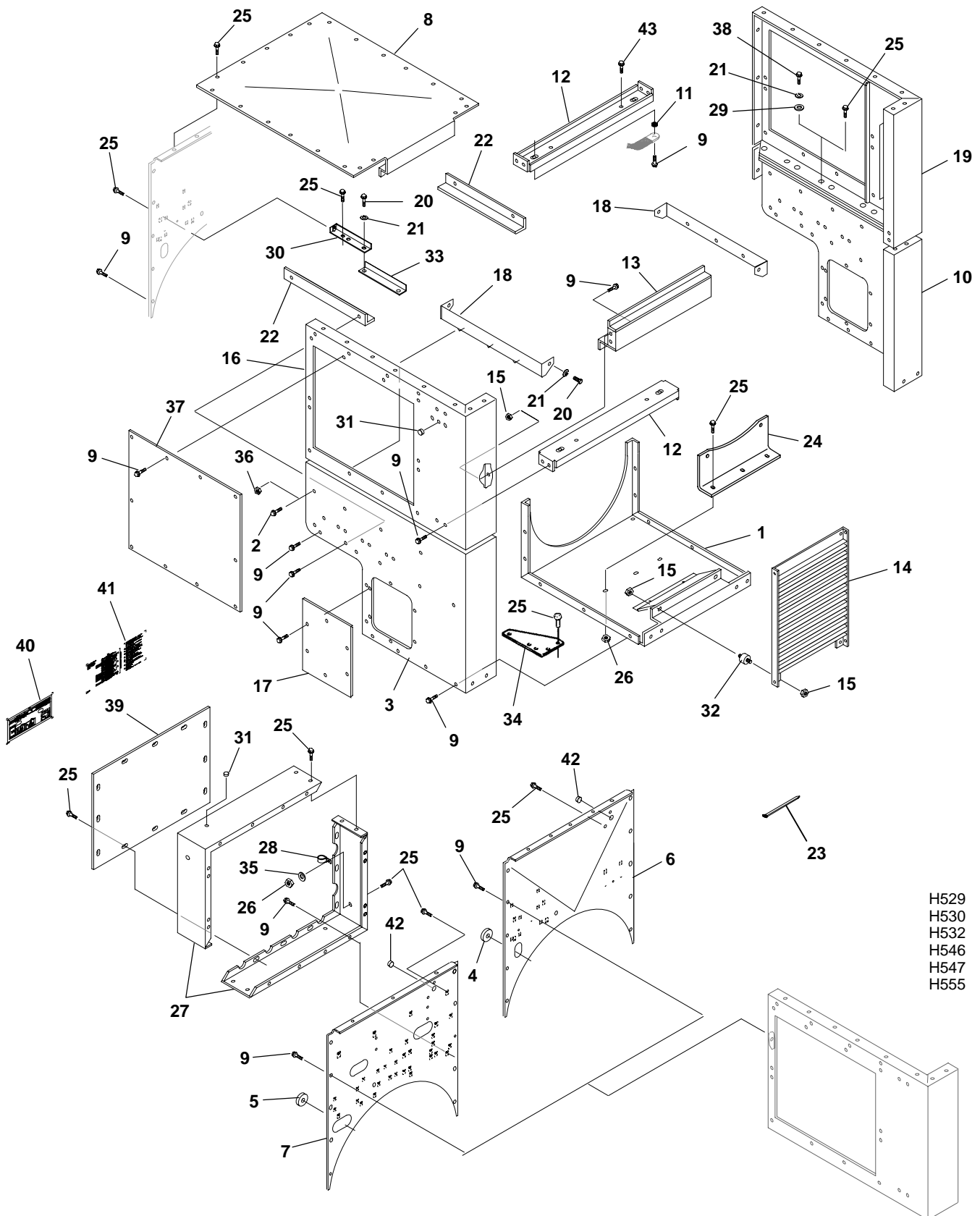


H529
H530
H546
H547

Control Housing
DFLB Spec K Through M
DFLC Spec K Through N, DFLD
DFMB Spec K Through N

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Panel – Bottom	24	319-1118	1	Angle, Support (6-1/2")
	319-2771-03	1	Model HC6 Generators	25			Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
	319-2771-04	1	Model HC7 Generators				Model HC6 Generators
2	319-2781-01	1	Panel – Right Side – Lower		821-5003-03	9	Sets With Detector Control
3	319-2781-02	1	Panel – Left Side – Lower		821-5003-03	11	Sets With PowerCommand Control
4	319-2778	1	Panel – Rear				Model HC7 Generators
5	319-2779-01	1	Panel – Right Side – Upper		821-5003-03	8	Sets With Detector Control
6	319-2779-02	1	Panel – Left Side – Upper		821-5003-03	10	Sets With PowerCommand Control
7			Panel – Front – Sets With Detector Control				
	319-1089	1	Model HC6 Generators				
	319-1088	1	Model HC7 Generators		821-5003-03	8	Sets With Detector Control
8	319-1093	1	Cover, Top		821-5003-03	10	Sets With PowerCommand Control
9	319-0881	2	Cover, Side – Lower				
10	319-0879	2	Support – Control Box				
11			Bracket, Saddle	26	319-1203-01	2	Gusset
	319-1096	2	Model HC6 Generators	27	319-2244	2	Wrapper, Control Box – Sets With PowerCommand Control
	319-1097	2	Model HC7 Generators				
12	319-0883	2	Angle, Housing	28	870-0550-05	10	Nut, Hex (1/4-20)
13			Bracket, Panel	29	870-0550-07	2	Nut, Hex (5/16-18) Sets With PowerCommand Control
	319-1091	1	Model HC6 Generators	30	526-1115	2	Washer, Flat (5/16") Sets With PowerCommand Control
	319-1092	1	Model HC7 Generators				
14	319-2767	1	Grille	31	517-0131	2	Plug, Hole (Fits 3/8" Hole) Sets With PowerCommand Control
15	508-1057	1	Grommet, Rubber – Sets With Detector Control (Fits 2-1/4" Hole)	32	332-2634	4	Clamp, "J" – Sets With PowerCommand Control
16	821-5004-02	12	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")	33	402-0610	4	Isolator, Vibration
17			Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	34	332-1389	AR	Tie, Cable
	821-5002-03	50	Model HC6 Generators	35	870-0550-09	6	Nut, Hex (3/8-16) Sets With HC7 Generators
	821-5002-03	46	Model HC7 Generators	36			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	37	319-2245	1	Cover, Control Box – Sets With PowerCommand Control
19			Screw, Cap – Hex Head (M10 x 25mm)	38	508-1090	3	Grommet, Rubber – Sets With PowerCommand Control
	800-2086	15	Model HC6 Generators				
	800-2086	11	Model HC7 Generators	39			Panel, Front – Sets With PowerCommand Control
20			Washer, Lock – EIT (1/4")		319-2243	1	Model HC6 Generators
	856-0006	1	Sets With Detector Control		319-2242	1	Model HC7 Generators
	856-0006	2	Sets With PowerCommand Control	40	098-6827	1	Decal, Module Installation – PowerCommand Control
21			Washer Lock – Spring (M10)	41			Decal, Customer Connections – PowerCommand Control
	850-2010	15	Model HC6 Generators		098-6985	1	Models Without Paralleling
	850-2010	11	Model HC7 Generators		098-7121	1	Models With Paralleling
22			Washer, Flat (3/8")				
	319-2771-03	1	Model HC6 Generators				
	319-2771-04	1	Model HC7 Generators				
23	319-1090	1	Angle, Support (5-1/2")				

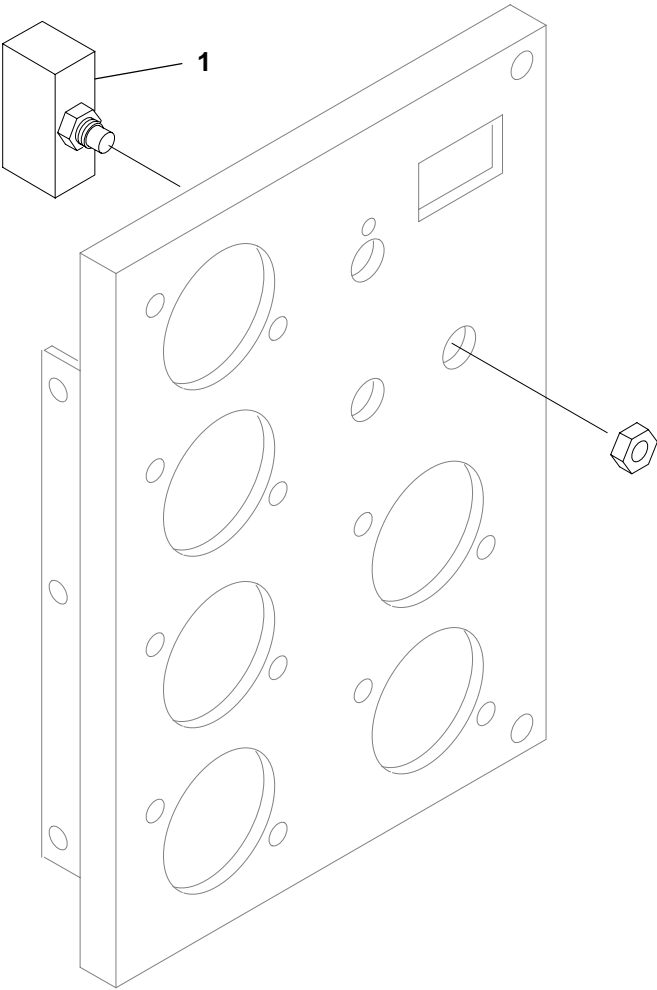
**Control Housing
DFLB Begin Spec N
DFLC, DFMB Begin Spec P**



Control Housing
DFLB Begin Spec N
DFLC, DFMB Begin Spec P

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Panel – Bottom	24			Bracket, Panel
	319-3270-03	1	Model HC6 Generators		319-1091	1	Model HC6 Generators
	319-3270-04	1	Model HC7 Generators		319-1092	1	Model HC7 Generators
2	821-6004-01	12	Screw, Self-Locking – Hex Washer Head (M10 x 20mm) Model HC6 Generators	25			Screw, Self-Locking – Hex Washer Head (M8 x 20mm)
							Sets With Detector Control
3	319-3283-01	1	Panel – Right Side – Bottom		821-6003-02	63	Model HC6 Generators
4	508-1057	1	Grommet, Rubber (Fits 2-1/4" Hole) Sets With Detector Control		821-6003-02	62	Model HC7 Generators
							Sets With PowerCommand Control
5	508-1090	3	Grommet, Rubber (Fits 3-1/4" Hole) Sets With PowerCommand Control				Model HC6 Generators
6			Panel – Front – Sets With Detector Control		821-6003-02	87	Model HC7 Generators
	319-3262	1	Model HC6 Generators		821-6003-02	86	Model HC7 Generators
	319-3261	1	Model HC7 Generators				
7			Panel – Front – Sets With PowerCommand Control	26	870-2055	2	Nut, Locking (M8) Sets With PowerCommand Control
	319-3276	1	Model HC6 Generators	27	319-3277	2	Wrapper, Control Box – Sets With PowerCommand Control
	319-3275	1	Model HC7 Generators				
8	319-1093	1	Cover, Top				Clamp, Retainer – Sets With PowerCommand Control
9			Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	28			Engine Side (3/4" ID)
			Model HC6 Generators		332-2634	2	Control Side (1-1/16" ID)
	821-6002-03	50	Without Circuit Breaker, Entrance Box, or BUS Box		518-0548-42	2	Washer, Flat (3/8")
				29	526-0141	10	Model HC6 Generators
	821-6002-03	40	With Circuit Breaker, Entrance Box, or BUS Box		526-0141	6	Model HC7 Generators
				30	319-3263	1	Angle, Support (5-1/2")
			Model HC7 Generators	31	517-0131	1	Plug, Hole (Fits 3/8" Hole)
	821-6002-03	46	Without Circuit Breaker, Entrance Box, or BUS Box		517-0131	3	Sets With Detector Control
							Sets With PowerCommand Control
	821-6002-03	36	With Circuit Breaker, Entrance Box, or BUS Box	32	402-0729	4	Isolator, Vibration
				33	319-3269	1	Angle, Support (6-1/2")
				34	319-1203-01	2	Gusset
				35	526-1115	2	Washer, Flat (5/16") Sets With PowerCommand Control
10	319-3283-02	1	Panel – Left Side – Bottom				Nut, Hex (M10) Model HC7 Generators
11			Washer, Lock – EIT (1/4")	36	870-2056	6	Cover, Side – Upper
	856-0006	1	Sets With Detector Control				Without Circuit Breaker, Entrance Box, or BUS Box
	856-0006	2	Sets With PowerCommand Control	37			With Circuit Breaker, Entrance Box, or BUS Box
12	319-3258	2	Support, Control Box		319-1095	2	Screw, Cap – Hex Head (M10 x 25mm) Model HC7 Generators
13	319-2778	1	Panel – Rear				Cover, Control Box – Sets With PowerCommand Control
14	319-2767	1	Grille		319-1095	1	Decal, Module Installation – PowerCommand Control
15	870-2054	10	Nut, Locking (M6)				Decal, Customer Connections – PowerCommand Control
16	319-3281-01	1	Panel – Right Side – Upper	38	800-2086	6	Models Without Paralleling
17	319-0881	2	Cover, Side – Lower				Models With Paralleling
18			Bracket, Saddle				Plug, Hole (Fits 5/8" Hole)
	319-3267	2	Model HC6 Generators	39	319-2245	1	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")
	319-3268	2	Model HC7 Generators				
19	319-3281-02	1	Panel – Left Side – Upper	40	098-6827	1	
20			Screw, Cap – Hex Head (M10 x 25mm)	41			
	800-2086	15	Model HC6 Generators				
	800-2086	5	Model HC7 Generators		098-6985	1	
21			Washer, Lock – Spring (M10)		098-7121	1	
	850-2010	15	Model HC6 Generators	42	517-0135	1	
	850-2010	11	Model HC7 Generators	43	821-0014	4	
22	319-3260	2	Angle, Housing – Model HC6 Generators				
23	332-1389	A/R	Tie, Cable				

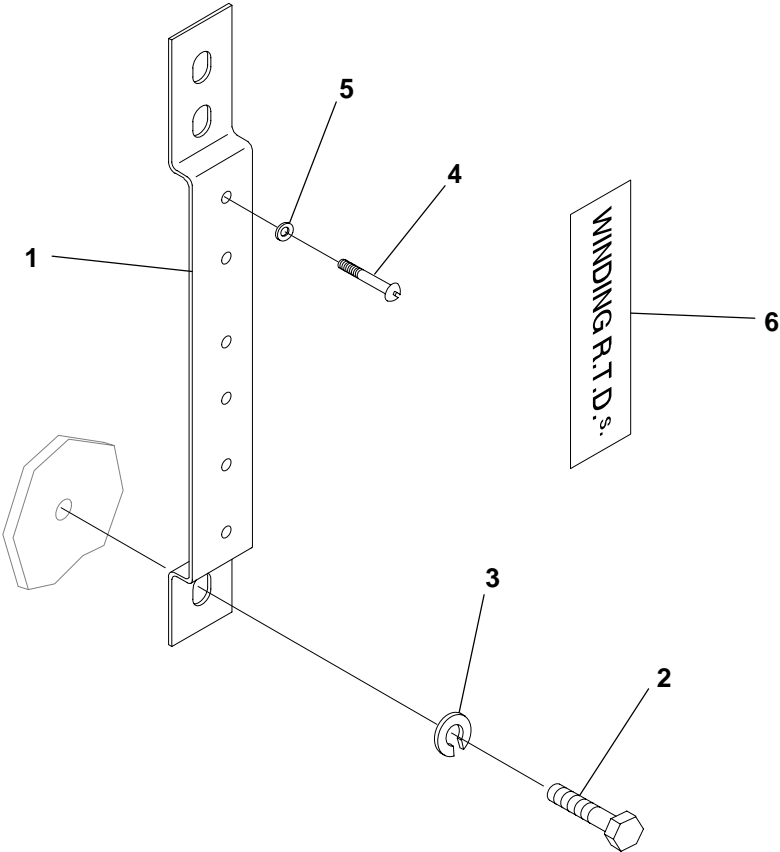
Circuit Breaker
AC Control Door



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				

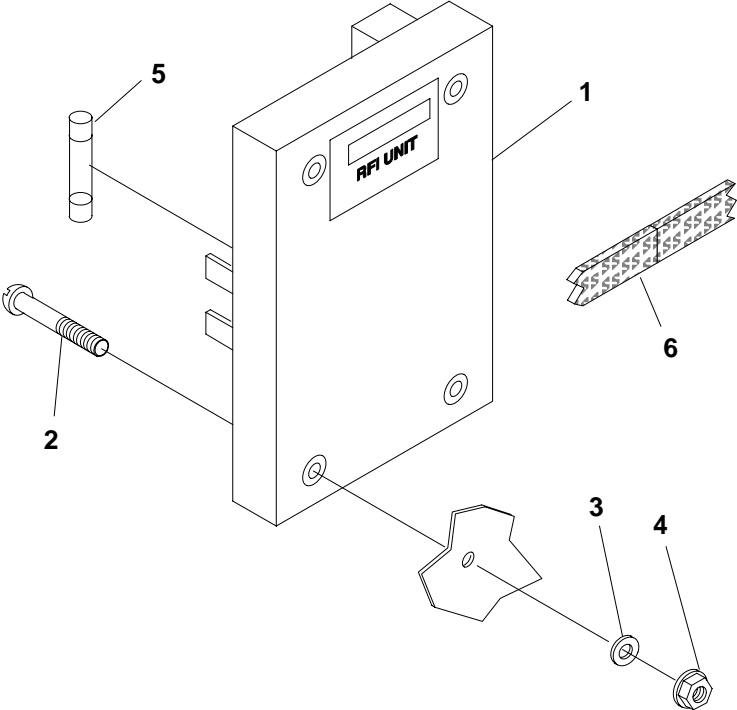
Resistive Temperature Detectors



R107
R108

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1293	1	Bracket	4	812-0070	4	Screw, Machine – Round Head (#6-32 x 1-1/4")
2	800-2080	2	Screw, Cap – Hex Head (M10 x 12mm)	5	526-0002	4	Washer, Flat (#6)
3	850-2010	2	Washer, Lock – Spring (M10)	6	098-6488	1	Label, R.T.D.

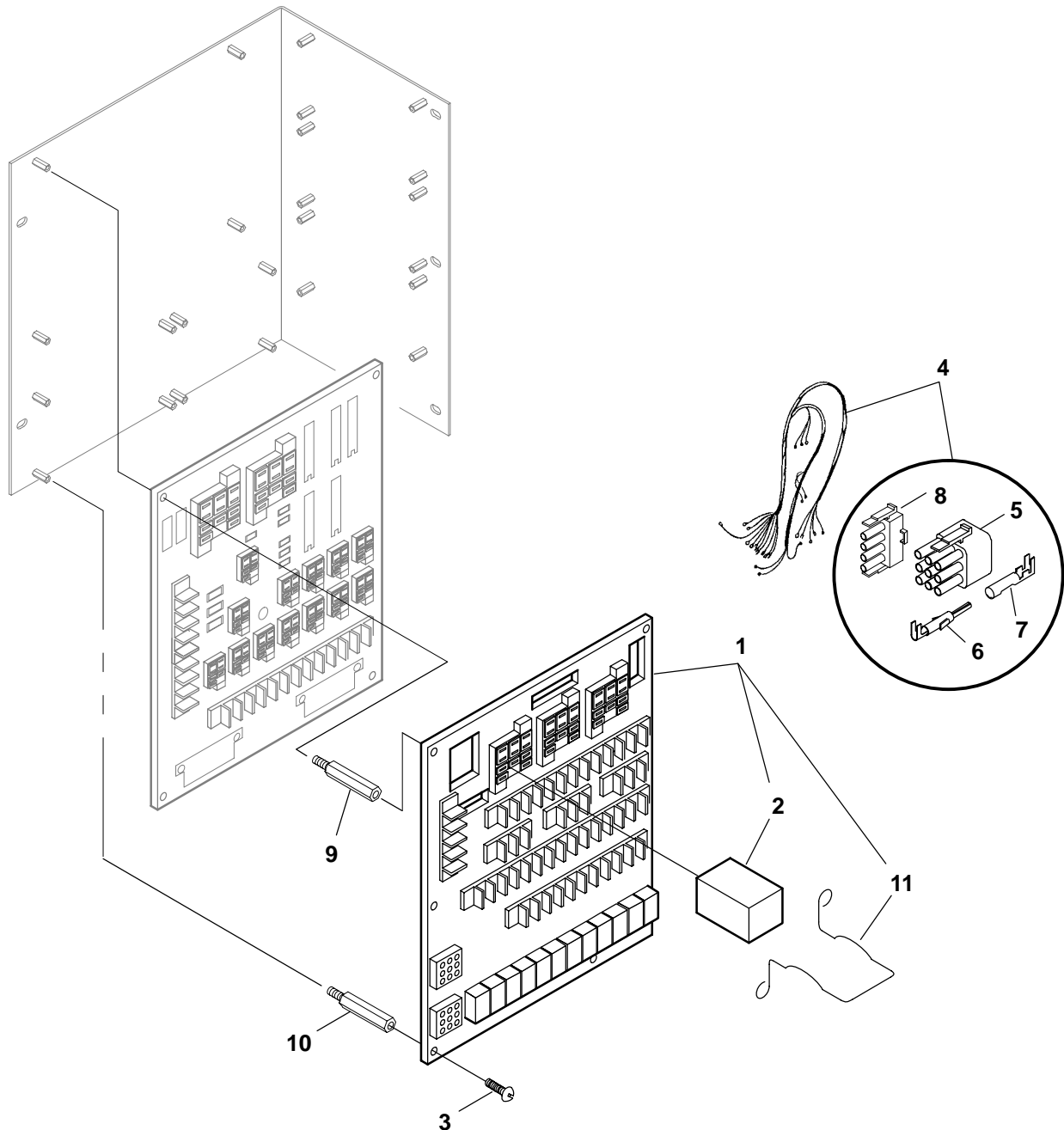
Radio Frequency Interference Module



B220
R107
R108

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)				

Alarm Relay Board

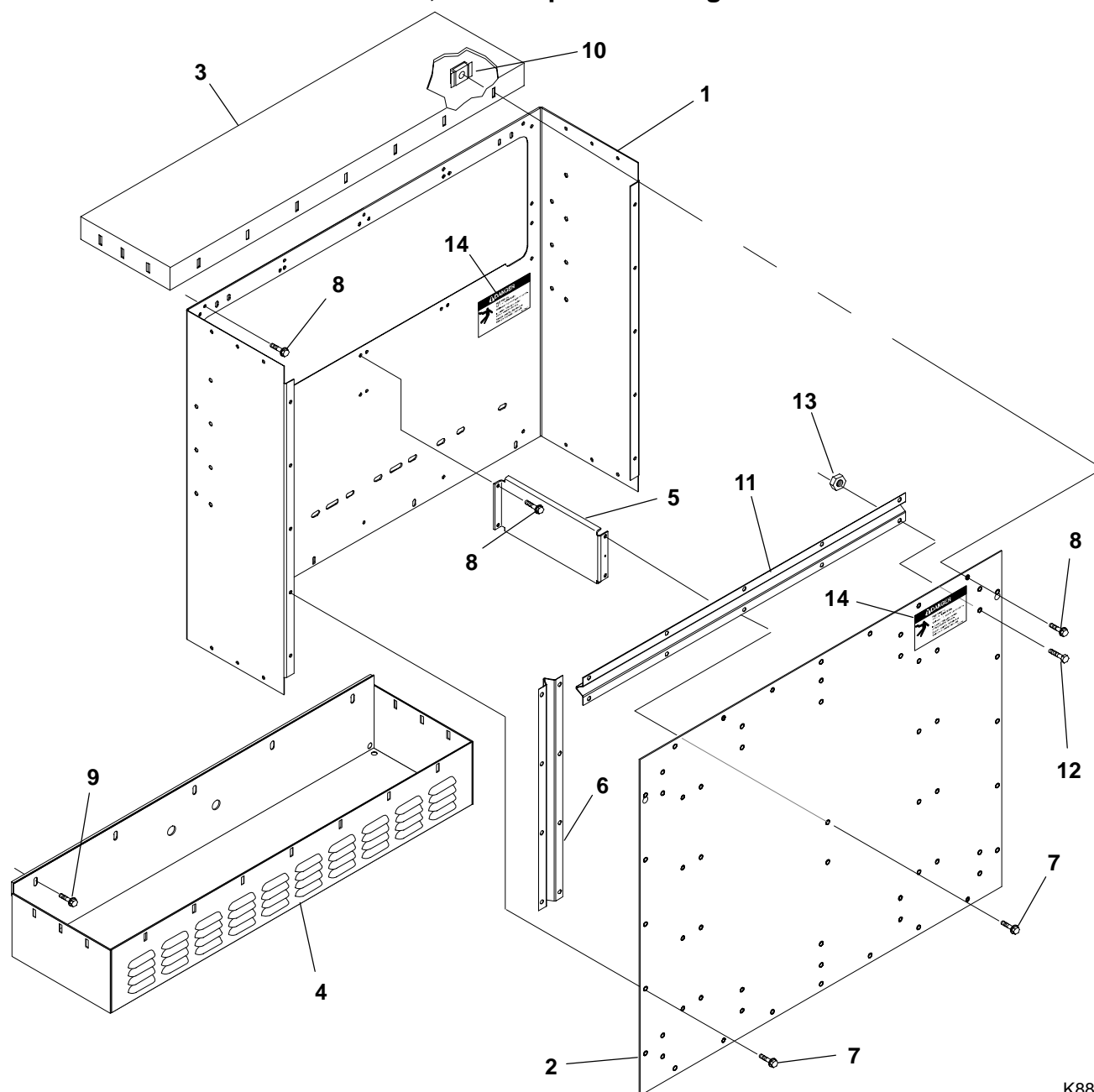


KJ02
KJ03

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 11)	5	323-1291	2	* Plug – 9 Place (P1, P2)
	300-4111-02	1	Without Form C Relays	6	323-1199	9	* Pin, Contact (Used In P1)
	300-4111-04	1	With Form C Relays	7	323-1200	12	* Socket, Contact (Used In P2, P3)
2	307-1056	1	Relay (Quantity Used As Required (K1))	8	323-1292	1	* Plug – 4 Place (P3)
3	815-0937	6	Screw, Machine – Round Head – Cross Recessed (#6-32 x 1/2")	9	870-0517-01	4	Standoff (Clear) (1-15/16")
4	338-2875	1	Harness, Wiring (A11 To P1, P2, P3) (Includes Parts Marked *)	10	870-0517-02	2	Standoff (Yellow) (2")
				11	307-1157	1	Spring, Relay Hold-Down (Quantity Used As Required)

* – Parts Included in 338-2875 Wiring Harness

Entrance Box
Model HC6 and HC7 Generators
DFLB Spec K Through M, DFCL Spec K Through N
DFLD, DFMB Spec K Through N

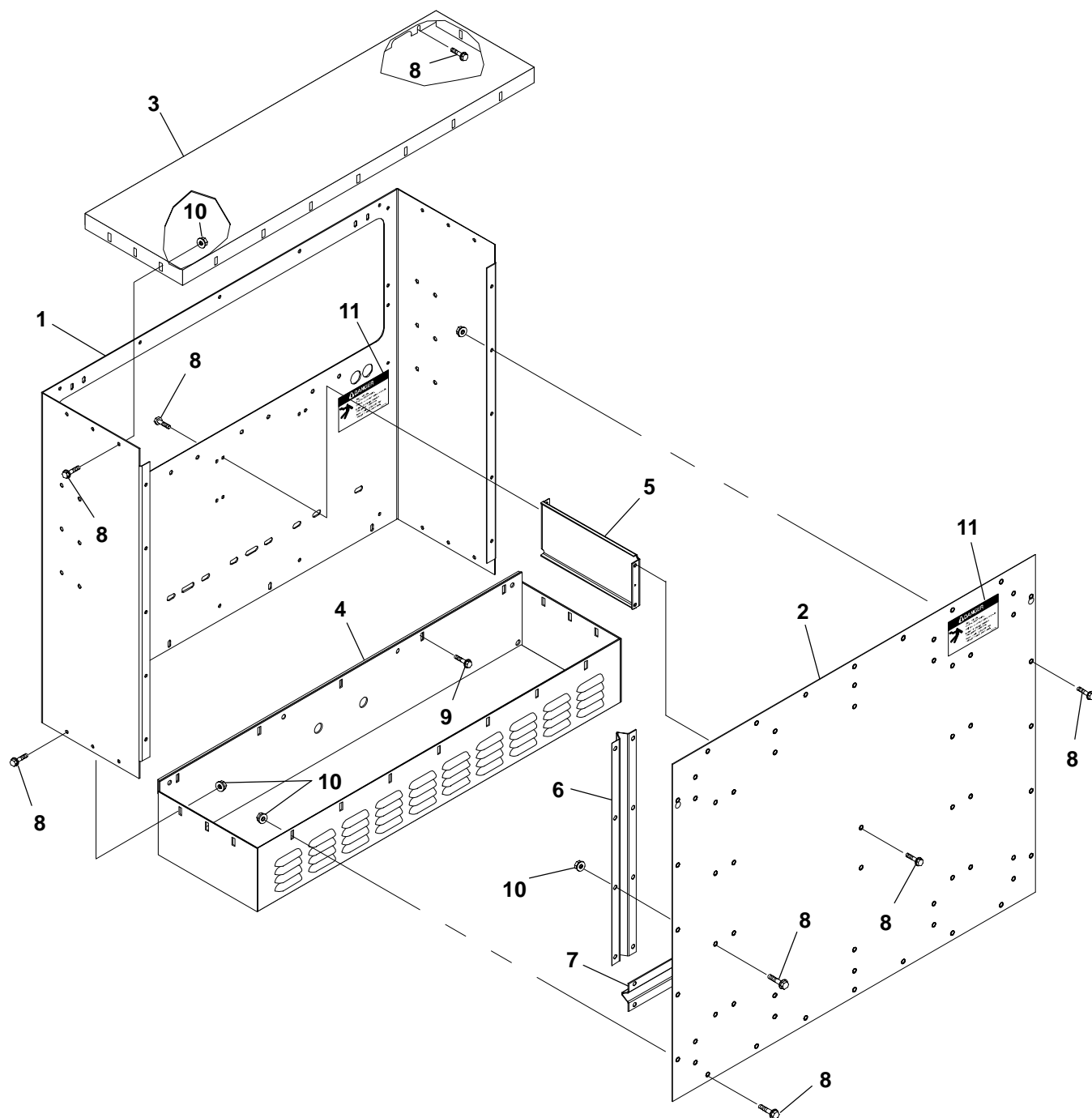


K882

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1957	1	Box, Entrance
2	319-2378	1	Cover
3	319-1961	1	Cover – Upper
4	319-1925	1	Cover – Lower
5	319-2377-01	1	Brace, Cover
6	319-2398	2	Brace, Cover (24")
7	821-0010	24	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
8	821-0018	21	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	821-0011	5	Screw, Self-Locking – Hex Washer Head (1/4-20 x 7/8")
10	870-0494	26	Nut, Retaining (1/4-20)
11	319-2399	2	Brace, Cover (40-1/2")
12	816-0098	36	Bolt, Carriage (5/16-18 x 5/8")
13	870-0257	36	Nut, Locking (5/16-18)
14	098-6650-01	2	Label, Danger – High Voltage

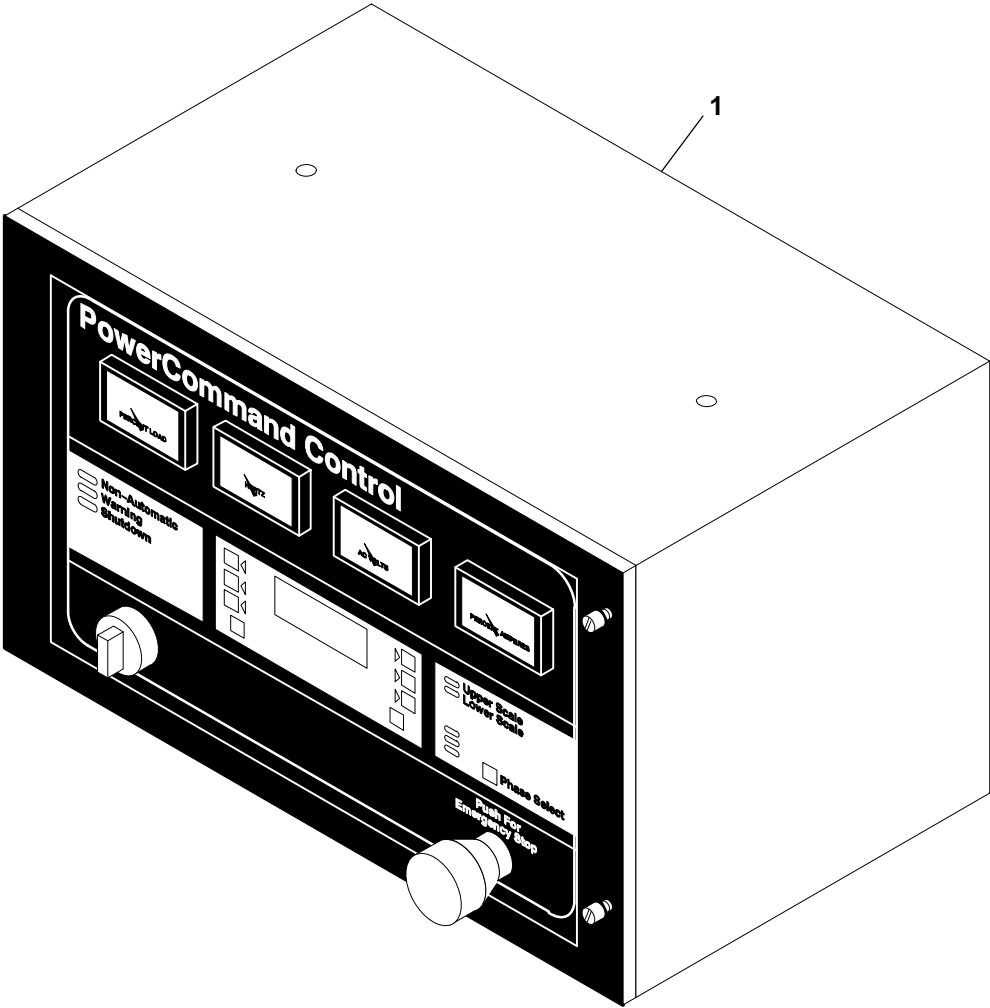
Entrance Box
Model HC6 and HC7 Generators
DFLB Begin Spec N
DFLC, DFMB Begin Spec P



K882

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3184	1	Box, Entrance	8	821-6002-03	89	Screw, Hex Head (M6 x 16mm)
2	319-3265	1	Cover, Entrance Box	9	821-2035	5	Screw, Self-Locking – Hex Washer Head (M6 x 25mm)
3	319-1961	1	Cover, Entrance Box – Top	10	870-0504	26	Nut, Retaining (M6)
4	319-1925	1	Cover, Entrance Box – Bottom	11	098-6650-01	2	Label, Danger – High Voltage
5	319-3264	1	Brace, Cover				
6	319-3286	2	Brace, Cover (Vertical)				
7	319-3288	2	Brace, Cover (Horizontal)				

PowerCommand Control

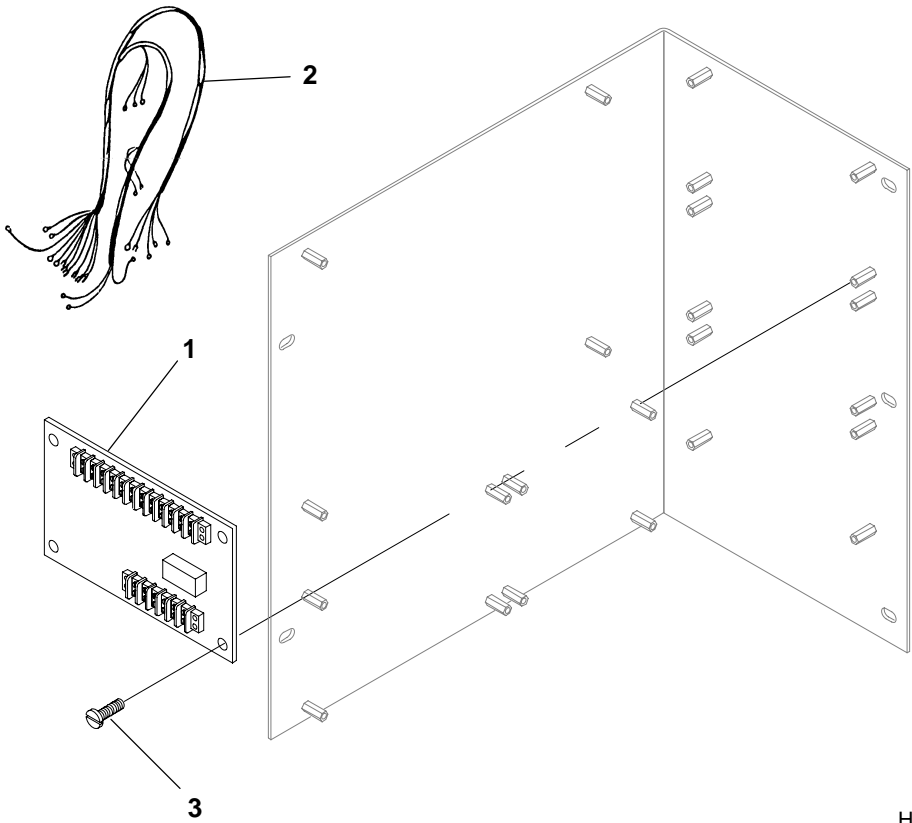


H530
H532
H536
H555

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.			

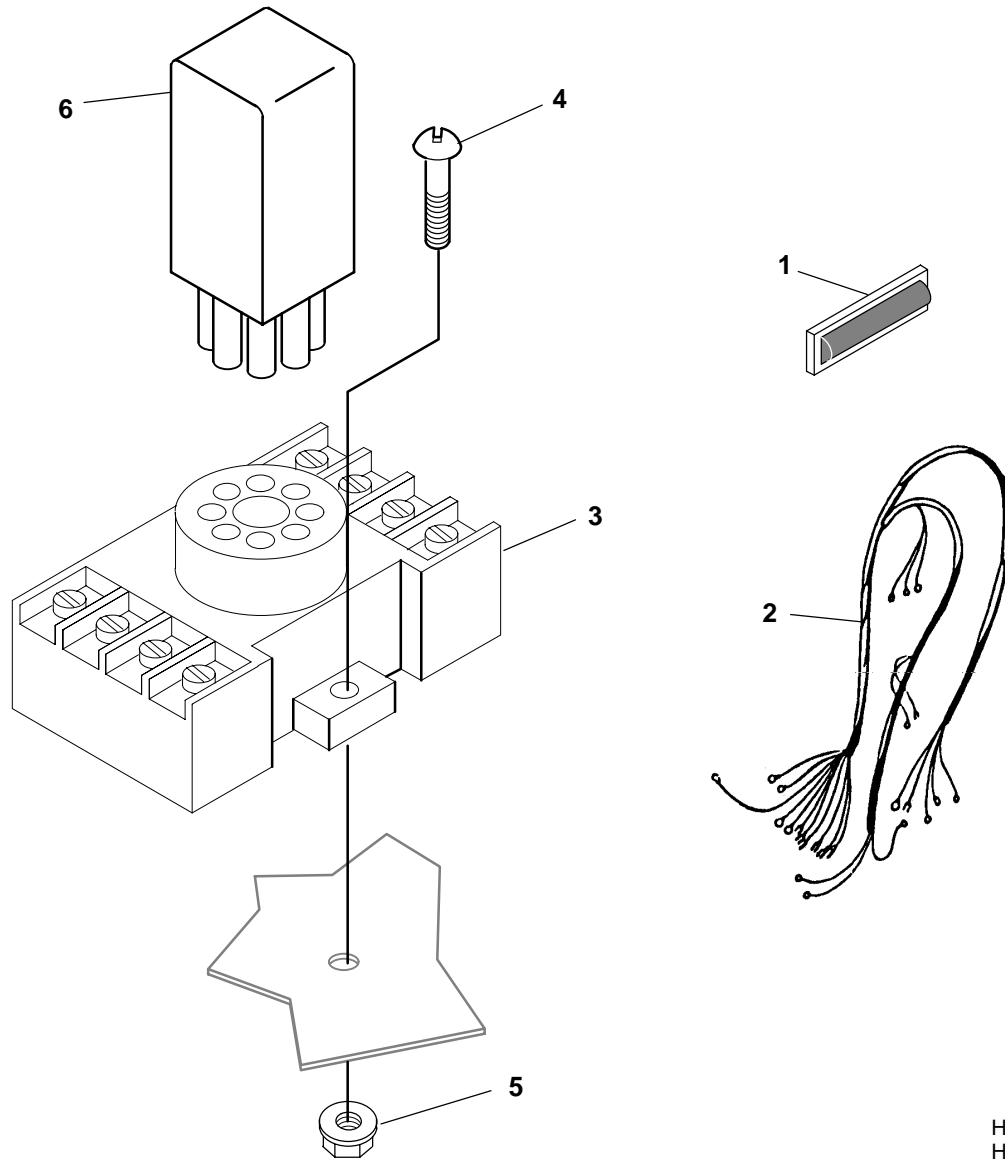
Common Alarm Board
Generator Sets With Detector Control



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)				

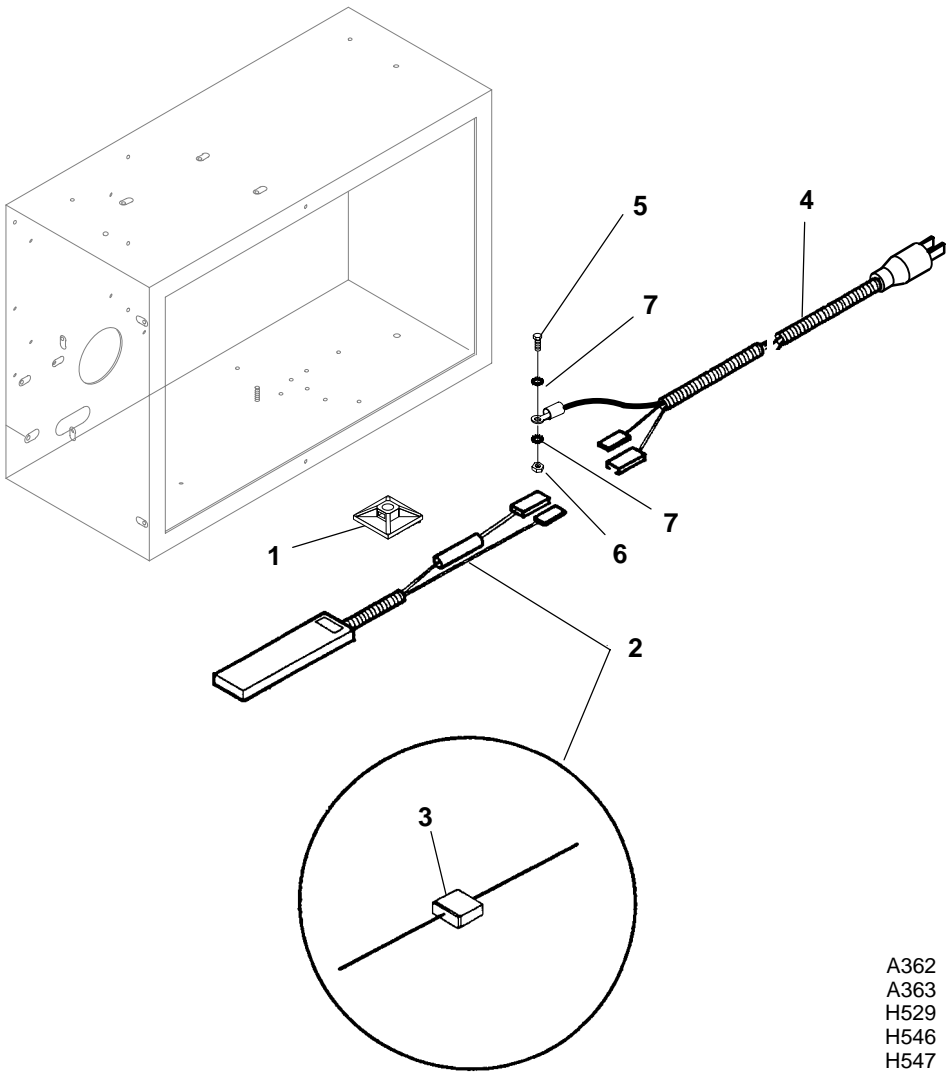
Low Battery Voltage Sensor



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")				

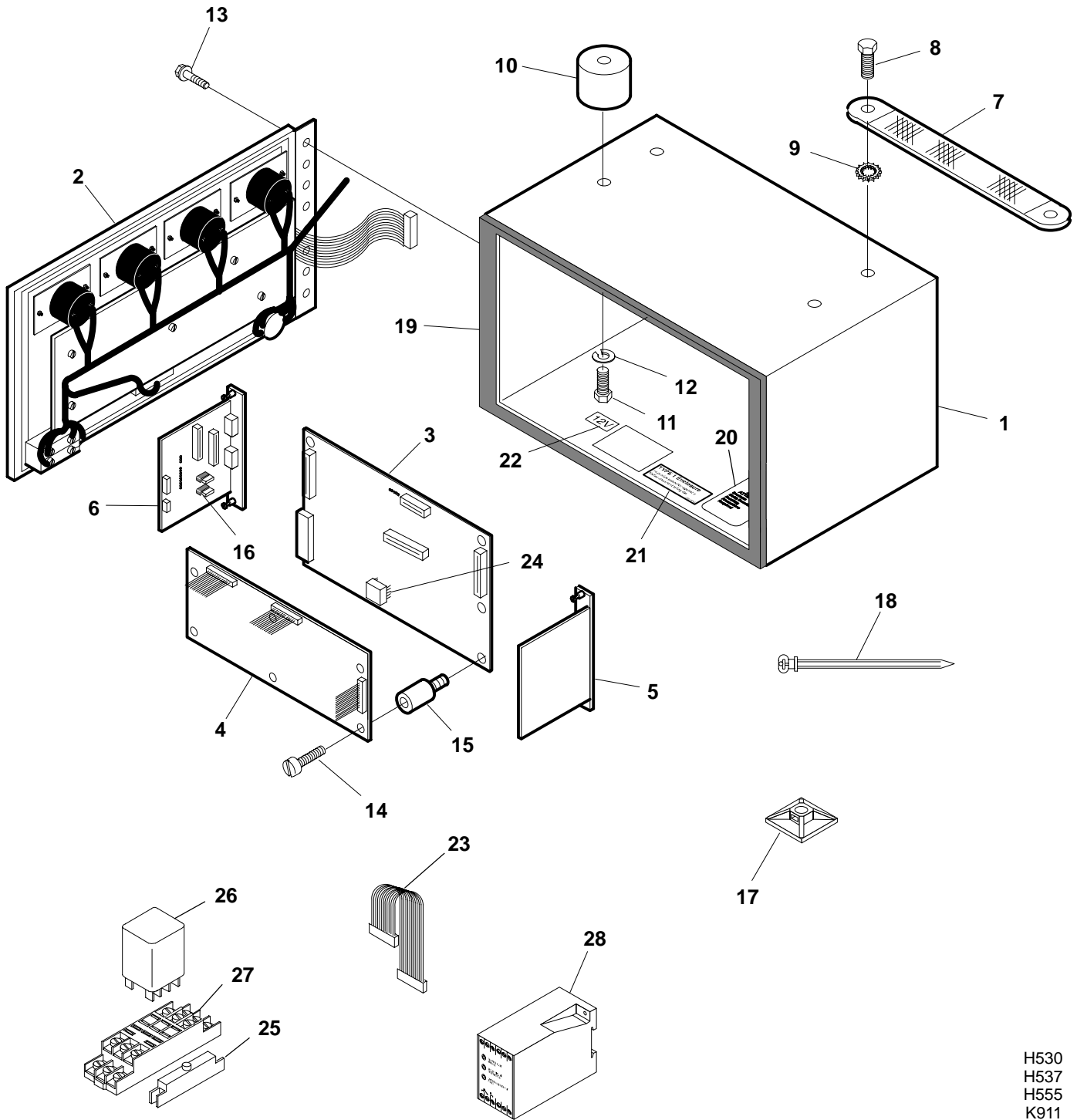
**Control Heater
Generator Sets With Detector Control**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-3338	2	*# Mount, Cable	5	800-0024	1	* Screw, Cap – Hex Head (5/16-18 x 3/4")
2			Heater Assembly, Control – 100 Watt (Includes Rectifier – Ref No. 3)	6	870-0257	1	* Nut, Locking – Hex (5/16-18)
	300-4515-01	1	* 120 Volt	7	856-0008	2	* Washer, Lock – EIT (5/16")
	300-4515-02	1	# 240 Volt				
3	357-0114	1	*# Rectifier (3 Amp)				
4	335-0173	1	* Cable, Heater (7')				

* – Parts Used in 120 Volt Control Heater Application
– Parts Used in 240 Volt Control Heater Application

Control Box

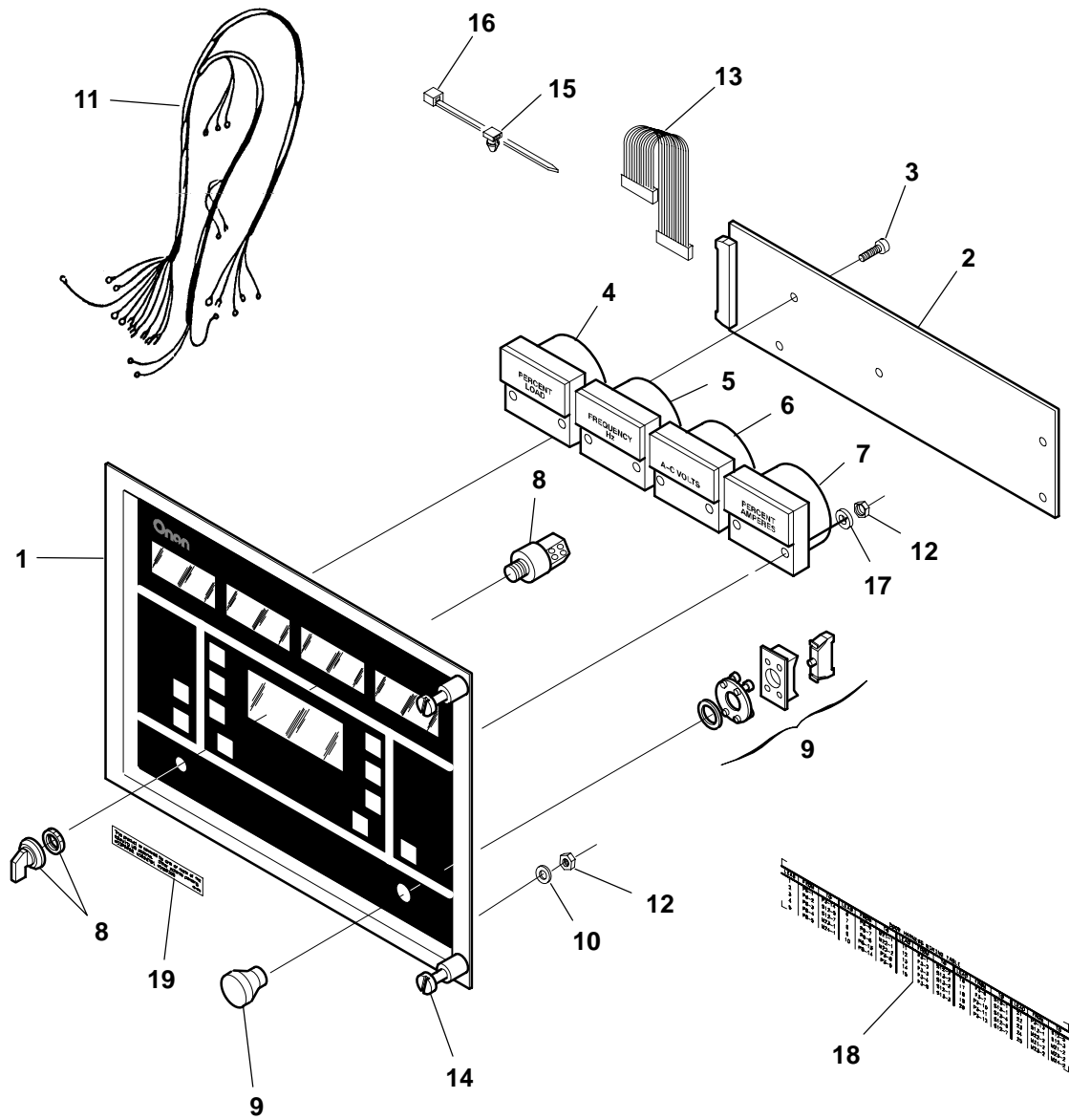


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Control Box

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 123 For Components)	17	332-2420	1	Mount, Cable Tie (Quantity Used as Required)
3	300-4079	1	Board, Printed Circuit – Digital (A32)	18	332-1445	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	098-7452	3	Label, 12V
	300-4462	1	Single Set	23			Cable, Ribbon (Used On Early PCC Models With Removable Ribbon Cables)
	300-4462-01	1	Paralleling Sets		338-2931-02	1	Customer Interface to Digital
6	300-4083	1	Board, Printed Circuit – Engine Interface (A31)		338-2932-02	1	Customer Interface to Analog
7	337-0049	2	Strap, Bond		338-2932-01	1	Analog to Digital
8	800-0003	2	Screw, Cap – Hex Head (1/4-20 x 1/2")		338-2933	1	Analog to Engine Interface
9	856-0006	2	Washer, Lock – EIT (1/4")		338-2931-01	1	Engine Interface to Digital
10	402-0527	4	Isolator, Vibration	24			Kit, Language Chip – EPROM (Includes Chip, Instruction Sheets and Warranty)
11	800-0024	4	Screw, Cap – Hex Head (5/16-18 x 1/2")				Single Set
12	850-0045	4	Washer, Lock (5/16")		300-4721-04	1	Paralleling Sets
13	821-0004	4	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16")		300-4721-16	1	Clip, Socket Mounting
14	815-0549	6	Screw, Machine – Pan Head – Cross Recessed W/ET (#6-32 x 1/4")	25	323-1411-01	2	Relay, Control
				26	307-1056-01	3	Socket, Relay
15	332-3235	6	Standoff, Board – PC (#6-32 IT x #6-32 ET x 3/4")	27	323-1410-01	3	Relay, Thermistor
				28	307-2869	2	

Control Door

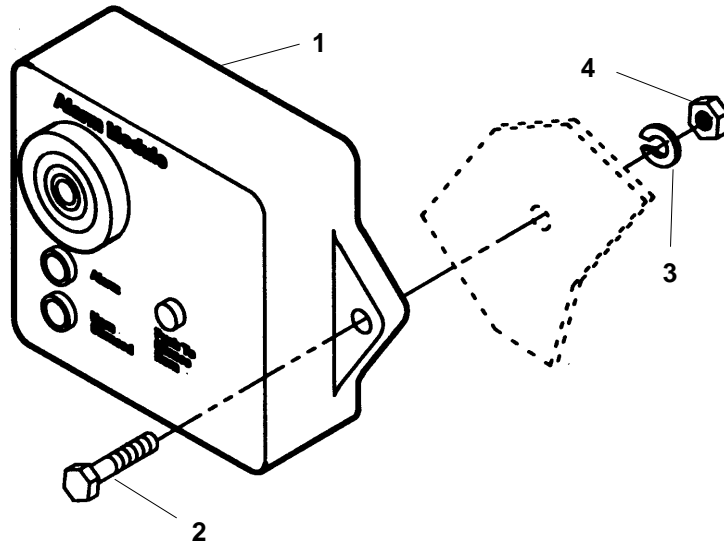


H530
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Control Door

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)				

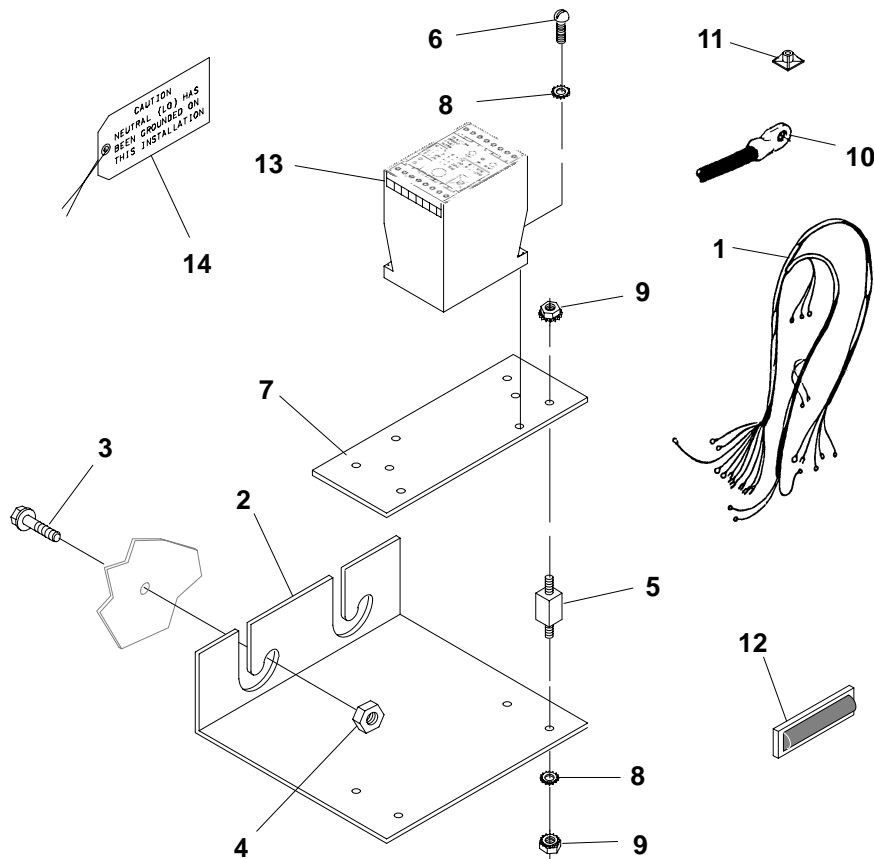
Audible Alarm Module **Generator Sets With PowerCommand Control**



KA08

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-3998-01	1	Module, Audible Alarm (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")

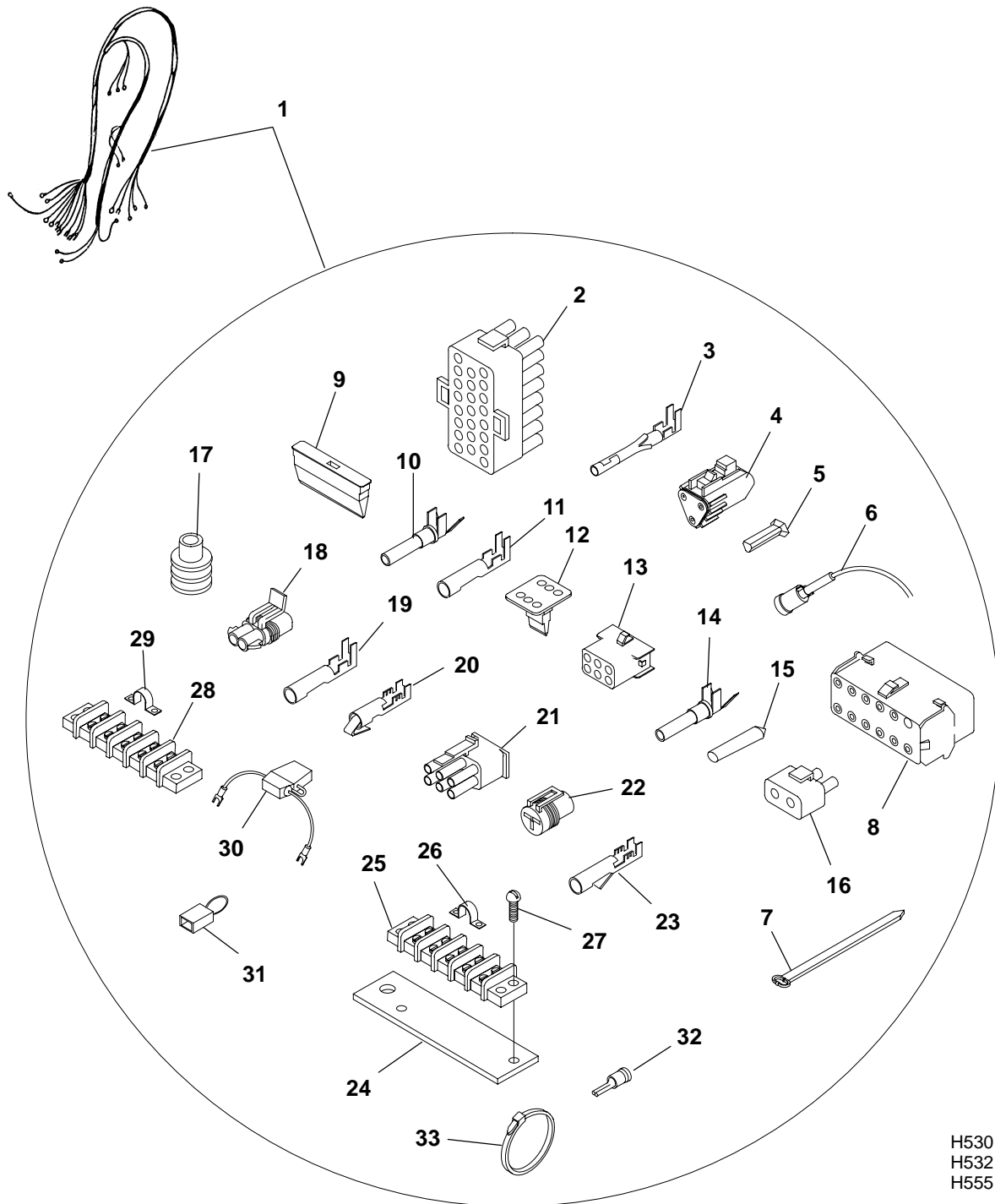
Ground Fault Relay **DFLB, DFLC, DFLD, DFMB Begin Spec L**



H550

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)	6	812-0081	2	Screw, Machine – Round Head (#8–32 x 5/8")
	338-3233	1	Generator Sets With PowerCommand Control (7 Wire, 119") (GFA to TB1, GEN NEUTRAL, GND)	7	319-0030	1	Plate, Mounting
2	301-6987	1	Bracket, Mounting	8	853-0005	8	Washer, Lock – ET (#8)
3	821-0017	2	Screw, Self-Locking – Hex Washer Head (5/16–18 x 1/2")	9	870-0221	10	Nut, Hex – W/ET (#8–32)
4	870-0257	2	Nut, Hex – Self-Locking (5/16–18)	10	226-4406-06	2	Cable, Generator (Generator Neutral to Generator Grounding Bolt) (24")
5	402-0354	4	Mount, Shock	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 (GFA)
				14	098-6943	1	Tag, Caution

Wiring Harness Engine to Control Generator Sets With PowerCommand Control

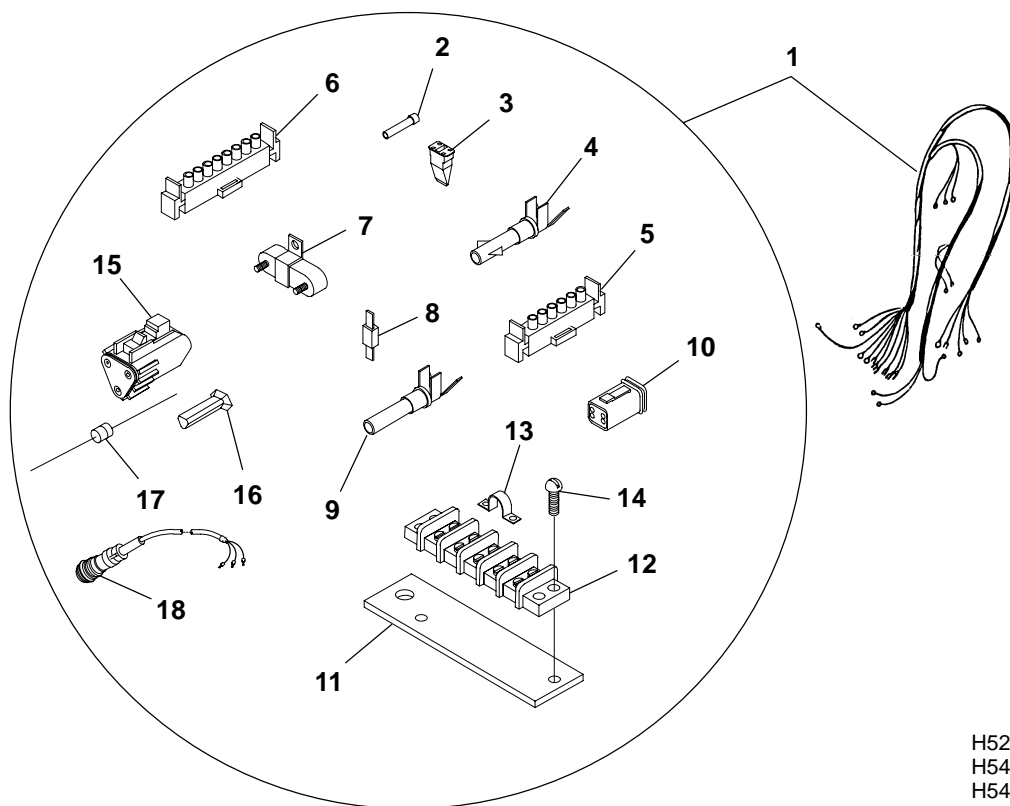


Wiring Harness Engine to Control Generator Sets With PowerCommand Control

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	17	323-1445	10	*# Seal (Used In E2, E3, E4, E6, E7)
	338-2607	1	DFLB, DFLC, DFLD, DFMB Spec K and L (Includes Parts Marked *)	18	323-1540	3	*# Socket, Connector (2 Place) (E2, E3, E4)
	338-3336	1	DFLB, DFLC, DFLD, DFMB Begin Spec M (Includes Parts Marked #)	19	323-1444	4	*# Socket, Contact (Used In E6, E7)
2			Plug, Connector (23 Place)	20	332-3096-01	6	*# Socket, Contact (Used In E2, E3, E4)
	323-1605-03	1	*# Colored Grey (P5)	21	323-1643-01	1	*# Plug, Connector (6 Place) (P10)
	323-1605-02	2	*# Colored Natural (P4, P6)	22	323-1666	1	*# Socket, Connector (3 Place) (E1)
3	323-1614-01	49	*# Socket, Contact (Used In P4, P5, P6)	23	323-1667	3	*# Socket, Contact (Used In E1) Bracket, Mounting – Terminal
4	323-1493	1	# Plug, Connector (3 Place) DFLB, DFLC, DFLD, DFMB Begin Spec M (P3)	24	319-2006-01	1	*# Marked "26" (T26)
5	323-1503	1	# Wedge – DFLB, DFLC, DFLD, DFMB Begin Spec M (Used In P3)		319-2006-02	1	*# Marked "GND" (GND-ENG)
6	338-2592-02	1	*# Cable, Magnetic Pickup (97") (Includes Indented Sockets Listed Below) (P1)	25	332-0604	2	*# Block, Terminal (5 Place)
	323-1614-01	3	*# Socket, Contact	26	332-1043	8	*# Jumper
7	332-1445	1	*# Tie, Cable (Quantity Used As Required)	27	815-0538	4	*# Screw, Machine – Round Head – W/IT (#8-32 x 1/2")
8	323-1580	1	*# Housing, Connector (12 Place) (J12)	28	332-0604	1	*# Block, Terminal (5 Place) (TB-BAT)
9	323-1581	1	*# Wedge (Used In J12)	29	332-1043	3	*# Jumper (Used On TB-BAT)
10	323-1491	5	*# Pin, Contact (Used In J12)	30	321-0339	1	*# Holder Assembly, Fuse (Used On TB-BAT) (Includes Indented Parts Listed Below)
11	323-1648	5	*# Socket, Contact (Used In P10)		321-0325	1	*# Holder, Fuse
12	323-1624	1	*# Wedge (Used In P7)		321-0307-07	1	*# Fuse – 20 Amp (Colored Yellow)
13	323-1623	1	*# Plug, Connector (6 Place) (P7)	31	338-3285	2	*# Harness Assembly, Jumper (Includes Parts Indented Below) (Used On E6, E7)
14			Socket, Contact		323-1652	2	*# Socket, Connector (2 Place)
	323-1492	6	* DFLB, DFLC, DFLD, DFMB Spec K and L (Used In P7)		323-1445	4	*# Seal, Cable
	323-1492	9	# DFLB, DFLC, DFLD, DFMB Begin Spec M (Used In P3, P7)		323-1718	4	*# Pin, Contact
15	323-1615	1	*# Plug (Used In P4, P5, P6) (Quantity Used As Required)	32	332-3496	2	# Pin, Contact – DFLB, DFLC, DFLD, DFMB Begin Spec M, (Used In TB1)
16	323-1637	2	*# Socket, Connector (2 Place) (E6, E7)	33	332-2774	1	# Tie, Cable (Quantity Used As Required)

* – Parts Included In 338-2607 Engine Wiring Harness
– Parts Included In 338-3336 Engine Wiring Harness

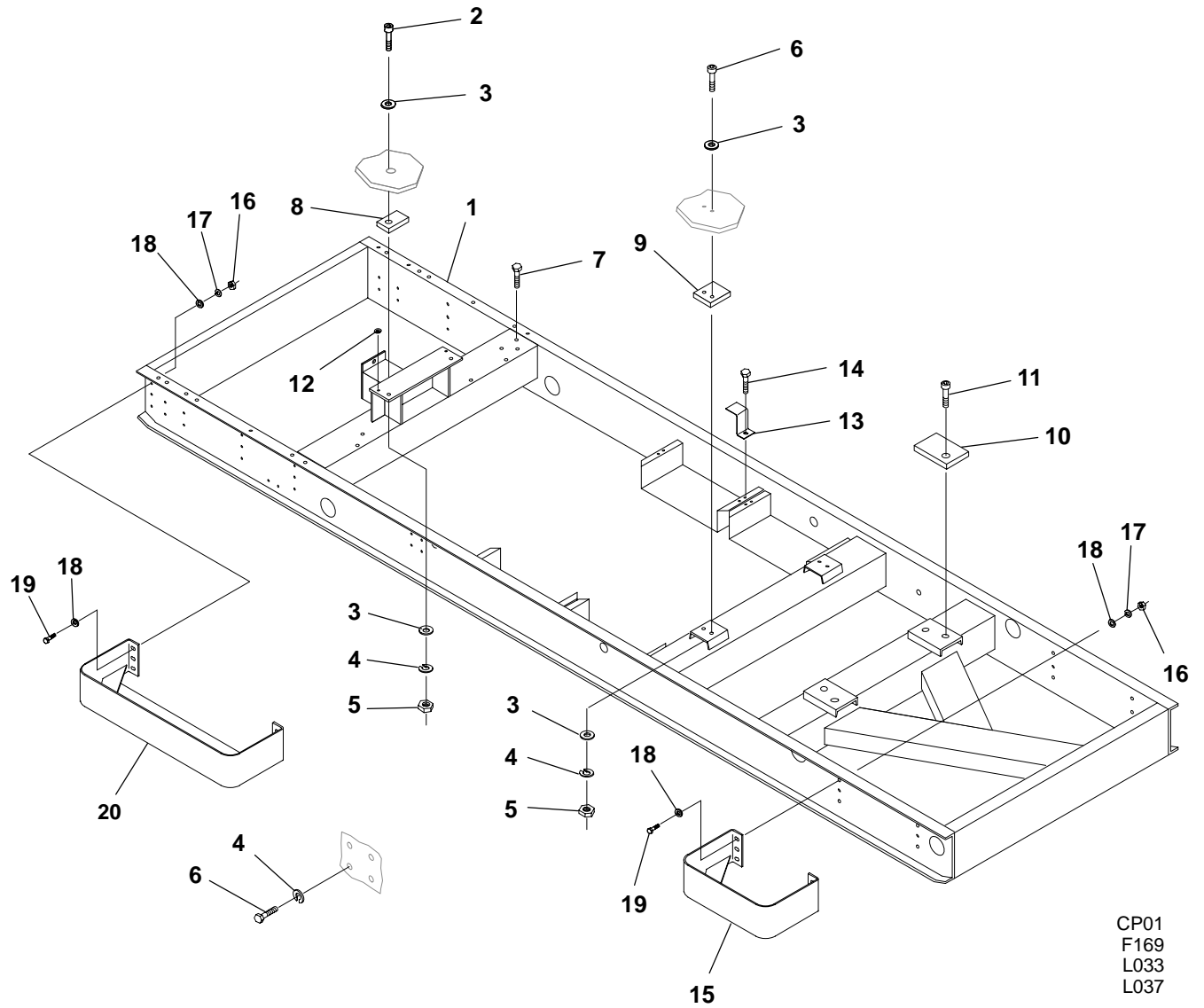
Wiring Harness Engine to Control Generator Sets With Detector Control



H529
H546
H547

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	9	323-1492	9	# Socket, Contact (Used In E1, P3)
	338-2995	1	DFLB, DFLC, DFLD Spec K Through L DFMB Spec K Through M+ (Includes Parts Marked *)	10	323-1546	1	# Plug, Connector (4 Place) (E1)
	338-3347	1	DFLB, DFLC, DFLD DFMB Begin Spec M (Includes Parts Marked #)	11			Bracket, Mounting – Terminal
2	323-1591	1	# Plug, Seal (Used In E1)		319-2006-01	1	*# Marked "26" (T26)
3	323-1591	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")
7	353-0094-01	1	*# Resistor (R1)	15	323-1493	1	# Plug, Connector (3 Place) (P3)
8	357-0030	1	*# Rectifier (CR1)	16	323-1503	1	# Wedge (Used In P3)
				17	359-0051	1	*# Diode
				18	338-1765-04	1	* Cable, Magnetic Pickup (60")
				+ – Not used on all DFMB Spec M Models			
				* – Parts Included In 338-2995 Wiring Harness			
				# – Parts Included In 338-3347 Wiring Harness			

Skid

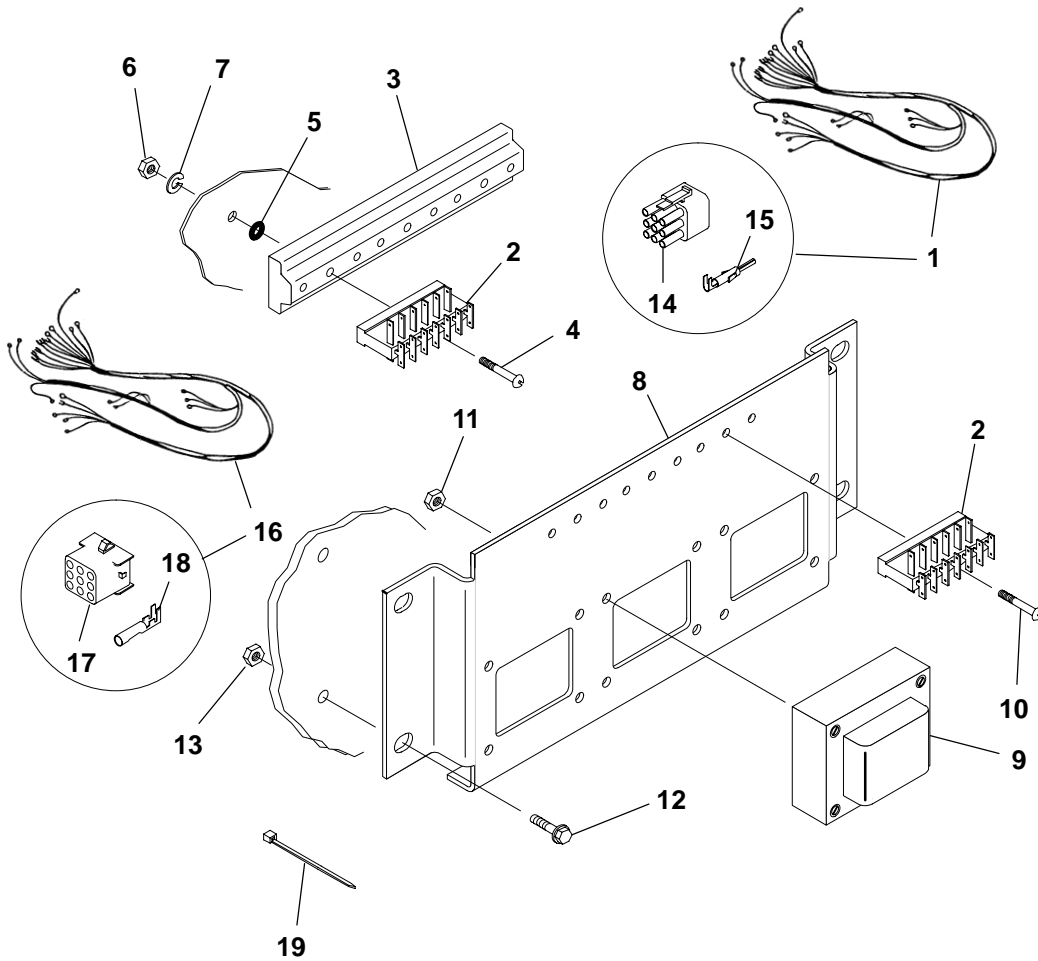


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1	403-3141	1	Skid	15	130-4389	2	Bumper
2	800-0163	2	Screw, Cap – Hex Head	16	862-0016	24	Nut, Hex (1/2–13)
	800-0164	2	(3/4–10 x 4)		862-0016	12	DFLB
3	526-0027	12	* Washer, Flat (3/4)	17	850-0060	24	DFLC, DFLD, DFMB
4	850-0079	14	Washer, Lock (3/4)		850-0060	12	Washer, Lock (1/2)
5	862-0008	6	Nut, Hex (3/4–10)	18	526-0219	48	DFLB
6	800-0158	12	Screw, Cap – Hex Head		526-0219	24	DFLC, DFLD, DFMB
			(3/4–10 x 2-3/4)	19			Screw, Cap – Hex Head
7	821-5004-03	7	Screw, Cap – Hex Head		800-0093	24	(1/2–13 x 1-3/4)
			(3/8–16 x 1.00)		800-0093	12	DFLB
8	403-3204	2	* Spacer – Engine (Front)	20	130-4301	2	DFLC, DFLD, DFMB
9	403-3205	2	* Spacer – Engine (Rear)				Bumper – DFLB
10	403-3206	2	* Spacer – Generator				
11	800-0316	2	* Screw, Cap – Hex Head				
			(1-1/4–7 x 4-1/2)				
12	526-0174	8	* Washer, Flat (3/8)				
13	416-0850	8	Bracket, Battery				
14	800-0048	8	Screw, Cap – Hex Head				
			(3/8–16 x 3/4)				

* – Parts Used on Prime Power Remote Radiator
Generator Sets

Auxiliary Terminal Block Generator Sets With Detector Control

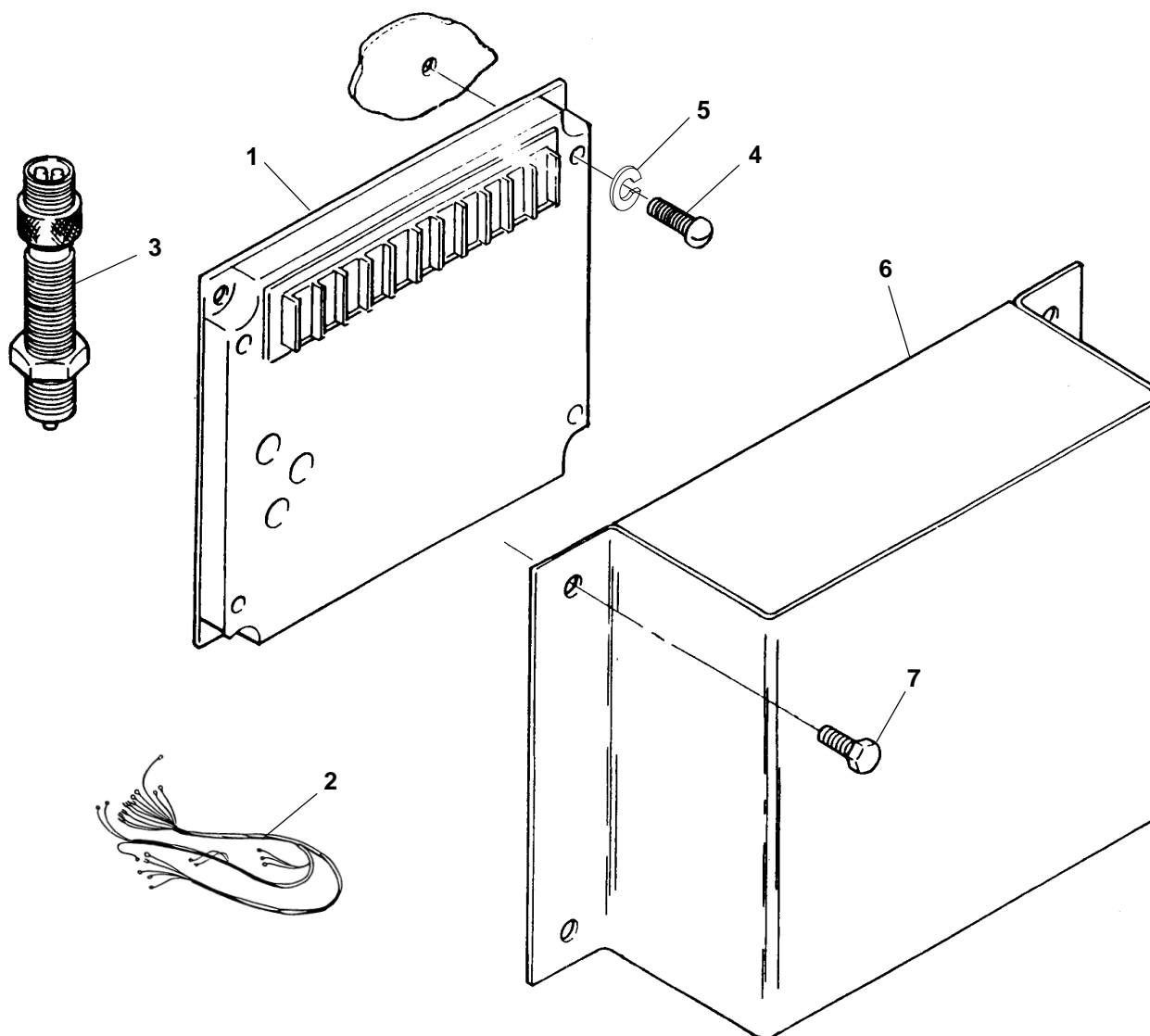


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Auxiliary Terminal Block Generator Sets With Detector Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Auxiliary Terminal Block	7	850-0025	3	Washer, Lock – Spring (#10)
	338-2530	1	190-240, 380-480, Volt 12 Lead Reconnectable Generators (AUX to TB21, VR21, A16, X, XX, P2, P3, P4, 5, 8, 7, 4, 6) – DFLB and DFLC Spec R~	8	319-1498	1	< Bracket, Mounting
				9	315-0717	3	< Transformer (PTW, PTV, PTU)
	338-2713	1	240-480 Delta, 380-480 600 Volt Wye Generators (Includes Parts Marked *) (AUX to TB21, VR21, A16, X, XX, P2, P3, P4, TB2, TB1, 8, 7, 6, 5) DFLB, DFLC, DFLD, DFMB Spec K Through L	10	812-0079	2	< Screw, Machine – Round Head (#8-32 x 1/2")
				11	870-0221	12	< Nut, Hex – W/ET (#8-32)
	338-2867	1	4160-2400 Volt Wye Generators (AUX to TB21, VR21, A16, X, XX, P2, P3, P4, TB1) DFLB, DFLC, DFLD, DFMB Spec M (J1 to PTW, PTV, PTU)	12	821-0016	4	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
				13	870-0257	4	Nut, Locking – Hex Flange Head (5/16-18)
	338-3360	1	380-480, 600 Volt, Wye Generators (Includes Parts Marked #) (AUX to 8, 7, 6, 5, P1, X, XX, P2, P3, P4, A16, VR21, TB21) – DFLB, DFLC, DFLD, DFMB Begin Spec M	14	323-1644-01	1	# Plug, Connector (9 Place) (P1)
				15	323-1647	8	# Pin, Contact
				16	338-3337	1	Harness, Wiring – Transformer (Includes Parts Marked +) DFLB, DFLC, DFLD, DFMB Begin Spec M (J1 to PTW, PTV, PTU)
2	332-3007	3	*#< Block, Terminal (AUX)	17	323-1644-02	1	+ Housing, Connector (9 Place) DFLB, DFLC, DFLD, DFMB Begin Spec M (J1)
3	232-3536	1	*#< Base, Terminal Block	18	323-1648	9	+ Socket, Contact – DFLB, DFLC, DFLD, DFMB Begin Spec M
4	812-0085	3	*#< Screw, Machine – Round Head (#8-32 x 1-1/8")	19	332-1445	1	*# Tie, Cable (Quantity Used As Required)
5	509-0065	1	*# Seal, O-Ring	~ Not used on all DFLC Spec R Models * – Parts Included In Wiring Harness 338-2713 # – Parts Included In Wiring Harness 338-3360 + – Parts Included In Wiring Harness 338-3337 < – Not Used On All Models			
6	870-0221	3	Nut, Hex – W/ET (#8-32)				

Electronic Governor

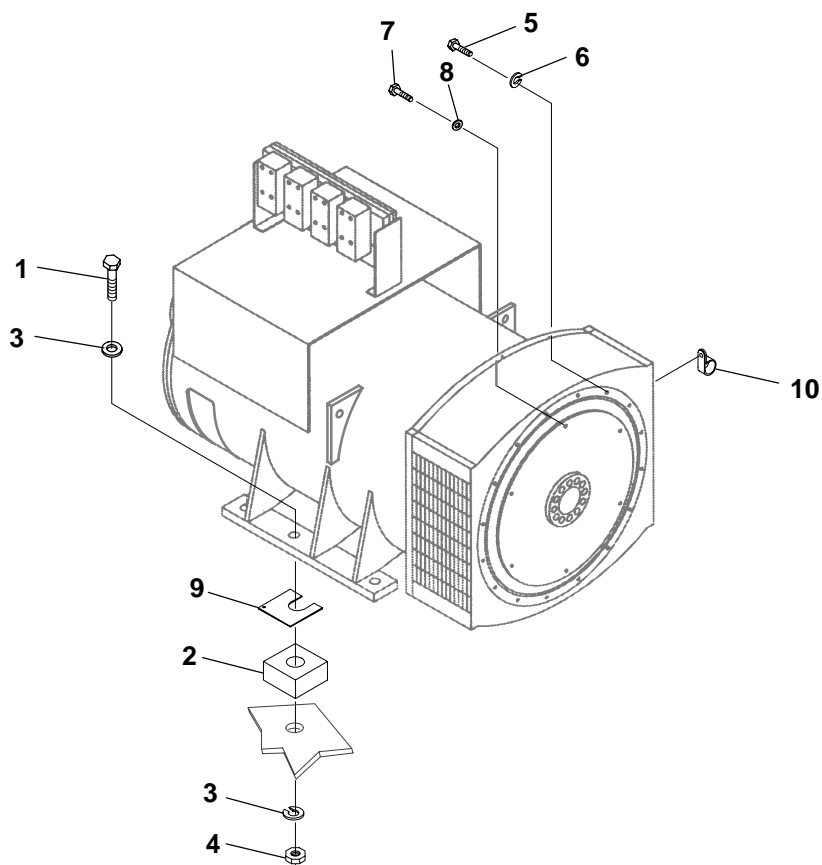


A332

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	151-0637-01	1	Control, Governor	5	850-0030	4	Washer, Lock - Spring (#10)
2	338-2526	1	Harness, Wiring - Electronic Governor (7 Wire, 110") (A16 to P1, GND, T26, ACT) - DFLB, DFLC, DFLD Spec K Through L and DFMB Spec K Through M*				DFLB Spec K Through M, DFLC, DFLD, DFMB Spec K Through N
3	151-0411	1	Pickup, Magnetic	6	150-2213	1	Cover, Governor Control
4			Screw, Machine - Round Head	7	821-5002-03	4	Screw, Self-Locking - Hex Washer Head
	813-0103	4	10-32 x 3/4" DFLB Spec K Through M DFLC, DFLD, DFMB Spec K Through N				1/4-20 x 1/2" DFLB Spec K Through M DFLC, DFLD, DFMB Spec K Through L
	821-6001-03	4	M5 x .8 x 16mm DFLB Begin Spec N DFLC, DFMB Begin Spec P		821-6002-03	4	M6 x 1 x 20mm DFLB Begin Spec N DFLC, DFMB Begin Spec P

* Not used with all DFMB Spec M models.

Generator Mounting

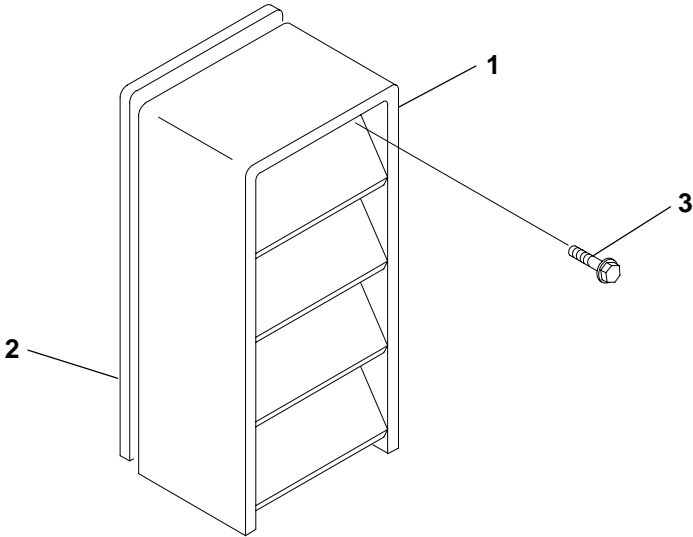


B246
B276
B282
B283
B284
B288
B300
B301
B302
B312
B313
B314
CP01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0304	2	Screw, Cap – Hex Head Model HC6 Generators (1-1/4-7 x 5-1/2")	8	526-0416	6	Washer, Flat (5/8")
	800-0303	2	Model HC7 Generators (1-1/4-7 x 3-1/2")	9			Shim (Quantity Used As Required)
2	232-3551	2	Spacer – Model HC6 Generators		232-3552-01	4	Model HC6 Generators 1/64" Thk
3	526-0445	4	Washer, Flat (1-3/8" ID x 3" OD x .136" Thk)		232-3552-02	4	5/64" Thk
4	862-0017	2	Nut, Hex (1-1/4-7)		403-2921	4	7/64" Thk
5			Screw, Cap – Hex Head – Grade 8				Model HC7 Generators
	800-0576	16	Model HC6 Generators (1/2-13 x 1-3/4")		232-3941-01	4	2.6 mm Thk
	800-0596	16	Model HC7 Generators (1/2-13 x 2-1/4")		232-3941-02	4	1.9 mm Thk
6	850-0060	16	Washer, Lock – Spring (1/2")		232-3941-03	4	.6 mm Thk
7	805-0035	6	Bolt, Place (5/8-11 x 1-1/2") Grade 8		232-3941-04	4	4.8 mm Thk
				10	332-3196	1	Clamp, "J"

NOTE: HC6 Generators are used with Models DFLB.
HC7 Generators are used with Models
DFLB, DFLL, DFLD, and DFMB.

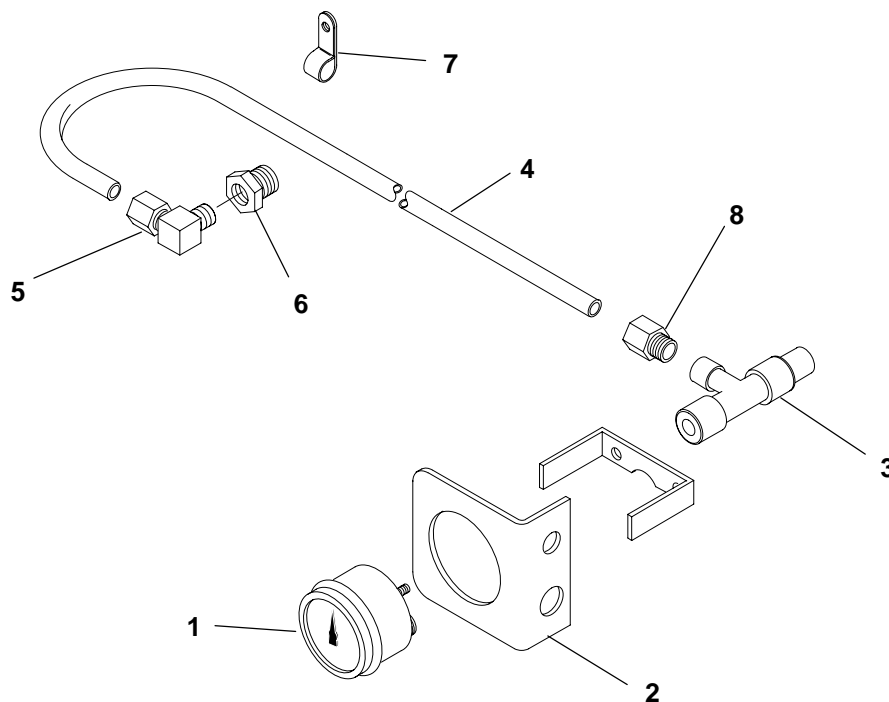
Generator Louvre



J047

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Louvre	2			Gasket, Louvre
	234-0900-01	2	Frame 6 Generators		234-0901-01	2	Frame 6 Generators
	234-0900-02	2	Frame 7 Generators		234-0901-02	2	Frame 7 Generators
				3	821-2023	12	Screw, Self-Locking – Hex Washer Head (M5 x 20mm)

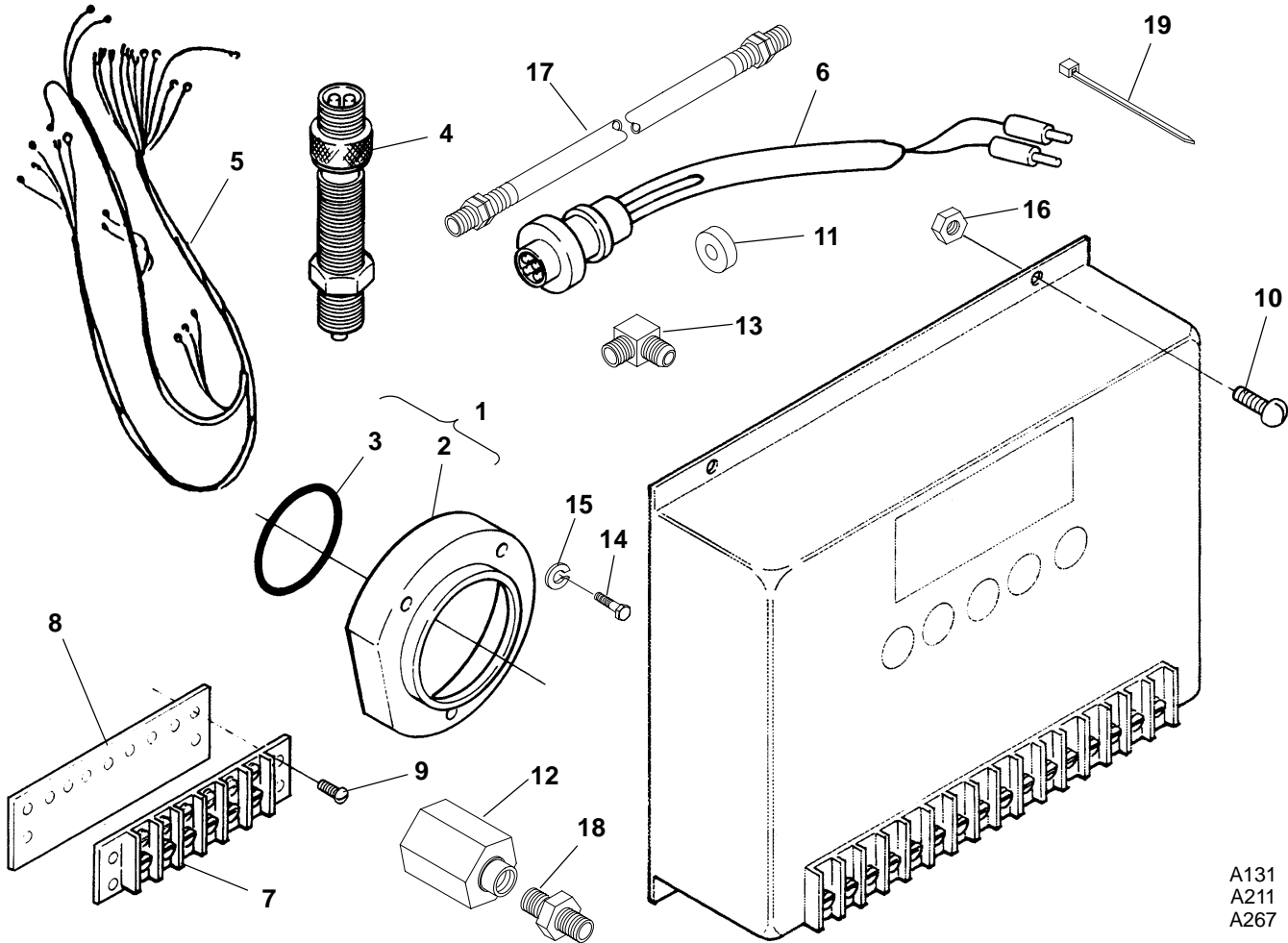
Fuel Pressure Gauge



H095

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0128	1	Gauge, Fuel Pressure (Includes Mounting Hardware)	6	505-0007	1	Bushing, Pipe – Reducer (1/4" to 1/8")
2	193-0029	1	Bracket, Mounting	7	518-0350	2	Clamp, Insulated
3	504-0064	1	Valve	8	502-0067	1	Connector, Compression – Male
4	149-2291-02	1	Tube, Copper (82")				
5	502-0034	1	Elbow, Compression – 90 Deg (Includes Nut and Ring)				

Woodward Governor



A131
A211
A267

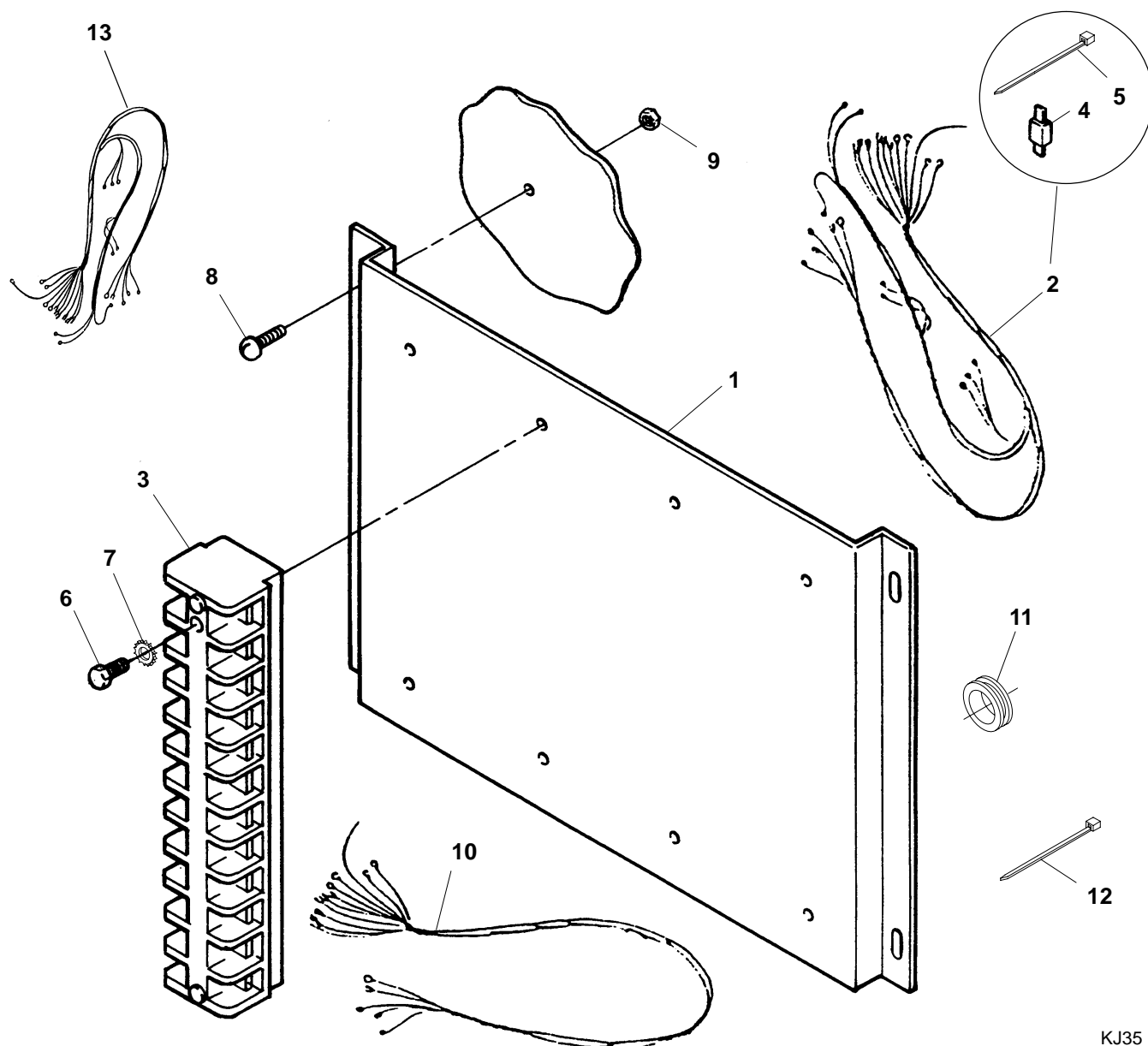
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2287	1	Pump, Fuel (Includes Fuel Pump Plug and O-Ring Seal – Ref. No. 2 and 3)
2	150-2334	1	Plug – Fuel Pump EFC Cavity
3	509-0272-02	1	Seal, O-Ring – EFC Cavity Plug
4	151-0411	1	* Pickup, Magnetic
5	338-2526	1	* Harness, Wiring – Woodward Governor (7 Wire, 110") (A16 to P1,GND,T26,ACT) DFLB, DFLC, DFLD, DFMB Spec K Through L
6	338-2538	1	* Harness, Wiring – Adapter – Woodward Governor To Engine Harness (12") (ACT to ACT)
7	332-0699	2	Block, Terminal (6 Place)
8	332-0970	2	Strip, Marker
9	822-1050	4	Screw, Machine – Round Head (#8–32 x 3/4")
10	813-0103	4	* Screw, Machine – Round Head (#10–32 x 3/4")
11	151-0663-02	1	Spacer (21/64" ID x 1/4")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	502-1307	1	Adapter, Female Pipe (1/4" Female x 1/2–20 Male)
13	502-1308	1	Elbow, Male – 90 Deg (1/4" Male x 3/4–16 Male Flare)
14	800-0072	4	Screw, Cap – Hex Head (7/16–14 x 1–1/4")
15	850-0055	4	Washer, Lock – Spring (7/16")
16			Nut, Hex – Jam (5/16–24) Right Handed Threads
	864-0017	1	Left Handed Threads
17	501-0537-46	1	Hose, Fuel Pump (15")
18	502-1045-04	1	Connector, Male (3/8–18 Pipe x 3/4–16 Flare)
19	332-1445	1	* Cable (Quantity Used As Required)

* – **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%

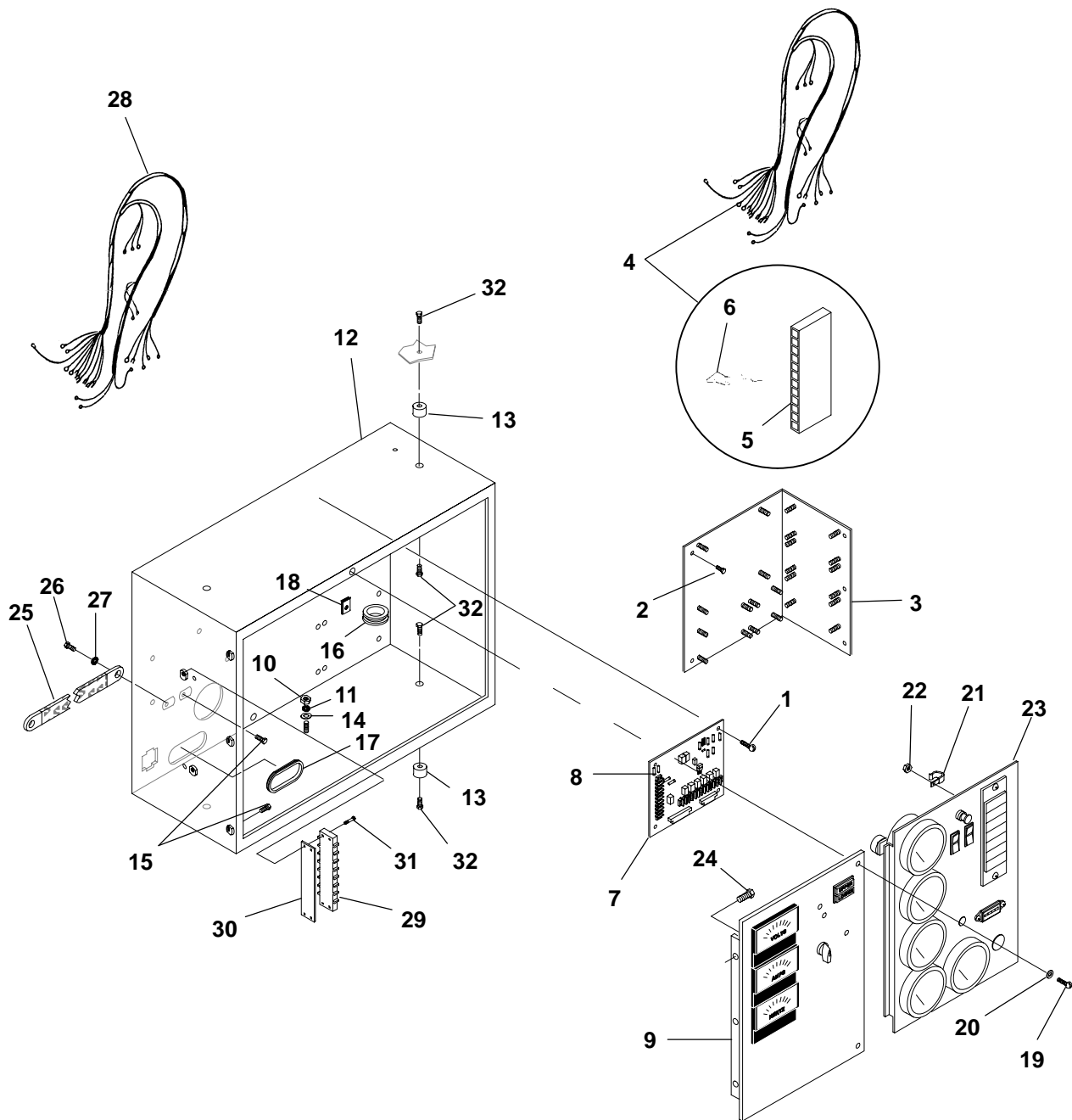
Paralleling Interconnect Terminal Block



KJ35

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1137	1	Panel, Mounting	7	853-0005	8	Washer, Lock – W/ET (#8)
2			Harness, Wiring (Includes Terminal Block, Diode, and Cable Tie – Ref No. 3, 4, and 5)	8	813-0100	4	Screw, Machine – Round Head (#10-32 x 1/2")
	338-2590	1	84" – TB11 to CR1, VR21, CB21, ELM, A11, and GND	9	870-0131	4	Nut, Hex – W/ET (#10-32)
	338-3519	1	156" – TB11 to CR1, VR21, TB1, A11, and GND – DFMB	10	338-2172	1	Harness, Wiring – Governor (Shielded) (5 Wire, 39")
3	332-2315	4	Block, Terminal (TB11)	11	508-0051	1	Grommet, Rubber (Fits 2" Hole) (Control Knockout)
4	357-0030	1	Diode (6 Amp) (CR1)	12	332-0942	1	Tie, Cable (Quantity Used As Required)
5	332-1445	1	Tie, Cable (Quantity Used As Required)	13	338-3520	1	Harness, Terminal Block (From TB301 to U1, V1, W1, U2, V2, and W2) – DFMB
6	812-0085	8	Screw, Machine – Round Head (#8-32 x 1-1/8")				

Detector Control

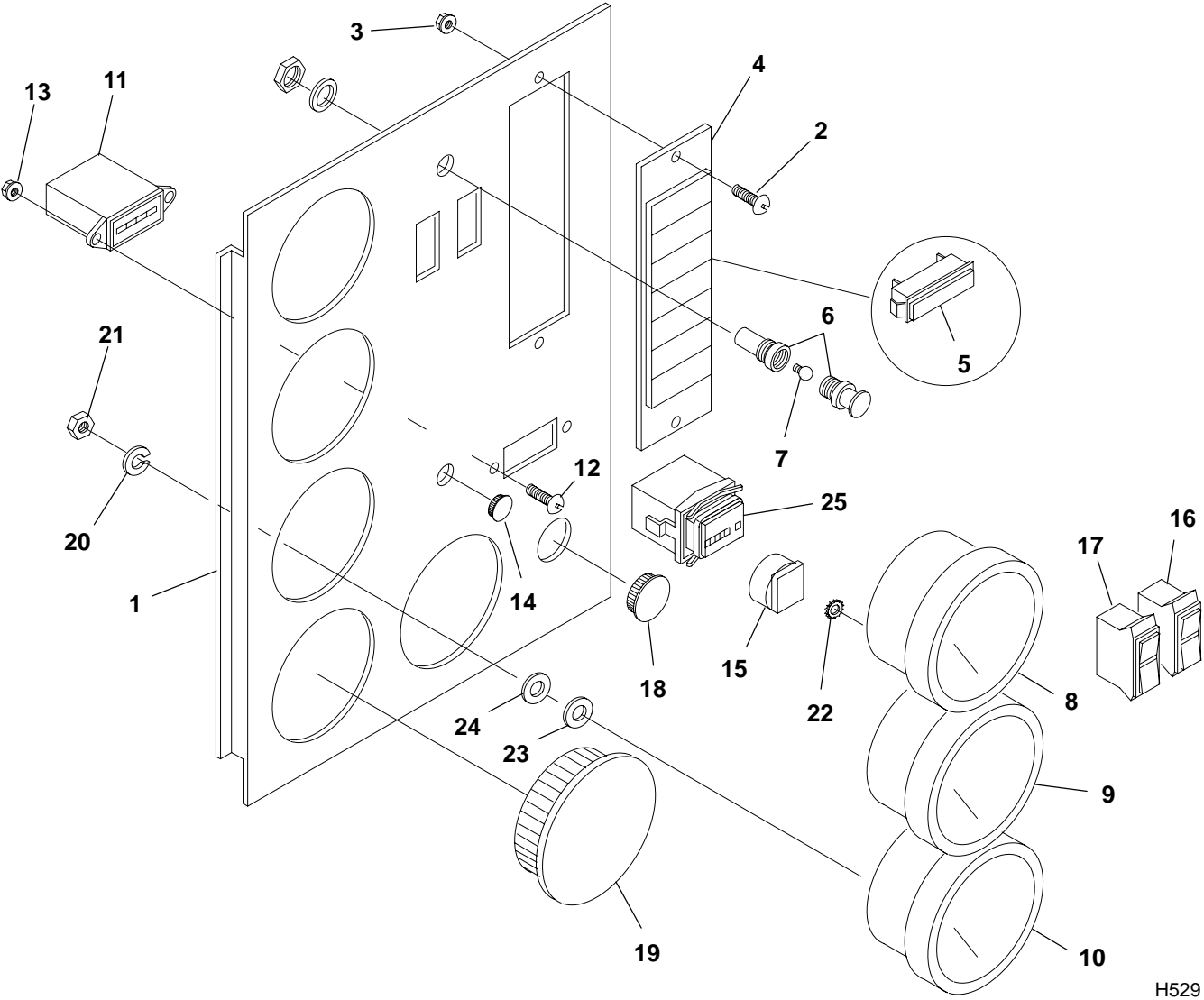


H529
H546
H547
K001

Detector Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Screw, Pan Head – Cross Recessed (#6–32 x 1/2")	13	402–0527	4	Isolator, Vibration
	815–0544	4	7 Light Control	14	526–0018	1	Washer, Flat (1/4")
	815–0937	4	12 Light Control	15	821–5000–05	3	Screw, Self–Locking – Hex Washer Head (#10–32 x 1/2")
2	821–0004	5	Screw, Self–Locking – Hex Washer Head (#10–32 x 5/16")	16	508–0001	1	Grommet (Fits 1–1/16" Hole)
3	301–8851	1	Bracket, Mounting – Used On Some Early Models	17	508–0051	1	Grommet (Fits 2" Hole)
4	338–3252	1	Harness, Wiring – DC Control Door Assembly to Engine Monitor Board (Includes Connector Housing and Contact Pins)	18	406–0332	2	Receptacle, Fastener
				19	406–0333	2	Stud, Fastener
				20	406–0334	2	Washer, Stud Retainer
				21	332–0052	2	Clip, Wire
				22	870–0131	4	Nut, Hex – W/ET (#10–32)
				23	–	1	Door, Assembly – Control – DC (See Page 141 For Components)
5	323–1308	1	Housing, Connector (12 Place) (J4)	24	821–0004	3	Screw, Self–Locking – Hex Washer Head (#10–32 x 5/16")
6	323–1302	11	Pin, Contact				
7			Board Assembly, Printed Circuit – Engine Monitor (Includes Fuses) (A11)	25			Strap, Ground
	300–4295	1	7 Light Control		337–0049	1	Sets Without AC Meters
	300–4297	1	12 Light Control		337–0049	3	Sets With AC Meters
8			Fuse	26			Screw, Cap – Hex Head (5/16–18 x 1/2")
			Cylinder Shaped (Used On Some Early Models)		800–0024	1	Sets Without AC Meters
					800–0024	3	Sets With AC Meters
	321–0270	2	20 Amp (F1,F2)	27			Washer, Lock – EIT (5/16")
	321–0231	1	15 Amp (F3)		856–0008	1	Sets Without AC Meters
	321–0094	2	5 Amp (F4,F5)		856–0008	3	Sets With AC Meters
			U Shaped	28	338–2278	1	Harness, Wiring – AC Control
	321–0307–03	2	5 Amp (Tan) (F4, F5)				Door Assembly to TB21
	321–0307–06	1	15 Amp (Light Blue) (F3)				Terminal Block (Includes TB21 Terminal Block)
	321–0307–07	2	20 Amp (Yellow) (F1, F2)				
9	–	1	Door Assembly – Control – AC (See Page 142 For Components)	29	332–0607	1	Block, Terminal – 12 Place (TB21)
10	871–0015	1	Nut, Hex (1/4–20)	30	332–2723	1	Strip, Marker
11	853–0008	1	Washer, Lock – ET (#10)	31	815–0901–06	2	Screw, Machine – Hex Head (#6–32 x 5/8")
12			Box, Control	32			Screw, Self–Locking – Hex Washer Head (5/16–18 x 1/2")
			Sets Without AC Meters				Sets Without AC Meters
	301–8065	1	Sets With PC Boards Mounted On 301–8851 L–Shaped Bracket	821–0014	1		Sets Without AC Meters
				821–0014	7		Sets With AC Meters
	319–3030	1	Sets With PC Boards Mounted To Control Box				
	301–8065	1	Sets With AC Meters				

DC Control Door Assembly **Generator Sets With Detector Control**

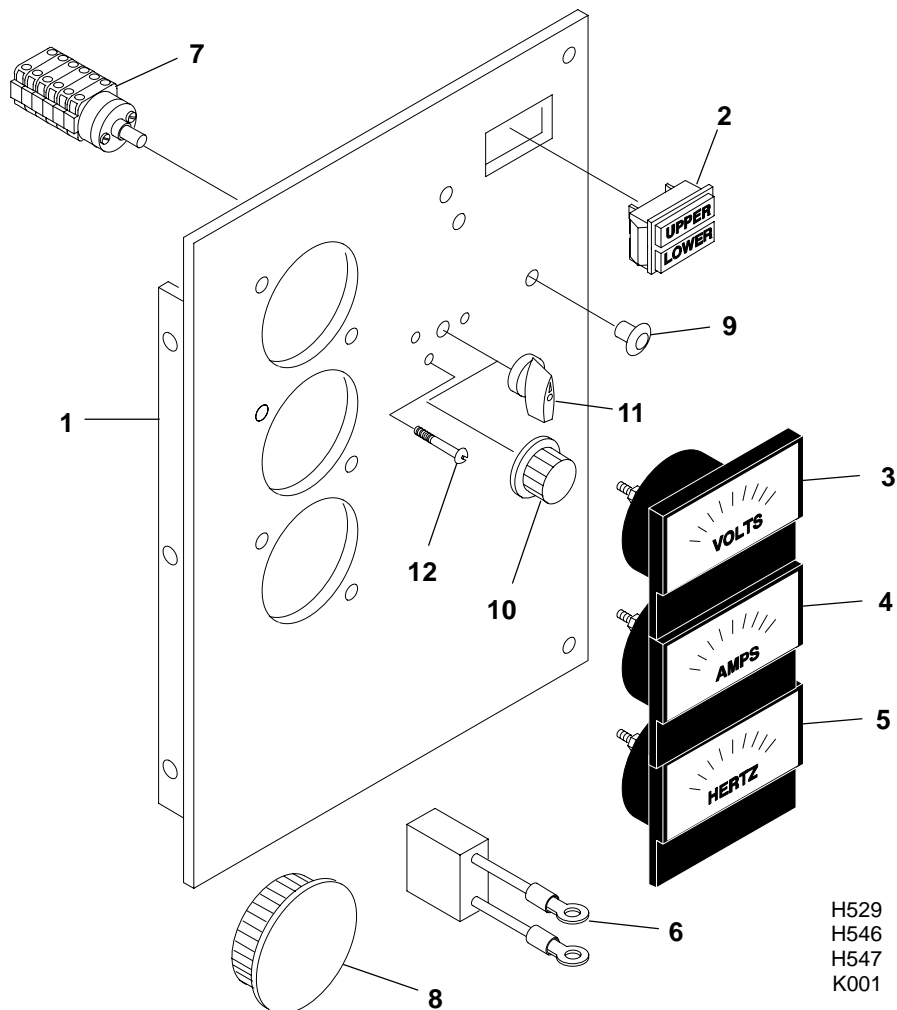


H529
H546
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K001

DC Control Door Assembly **Generator Sets With Detector Control**

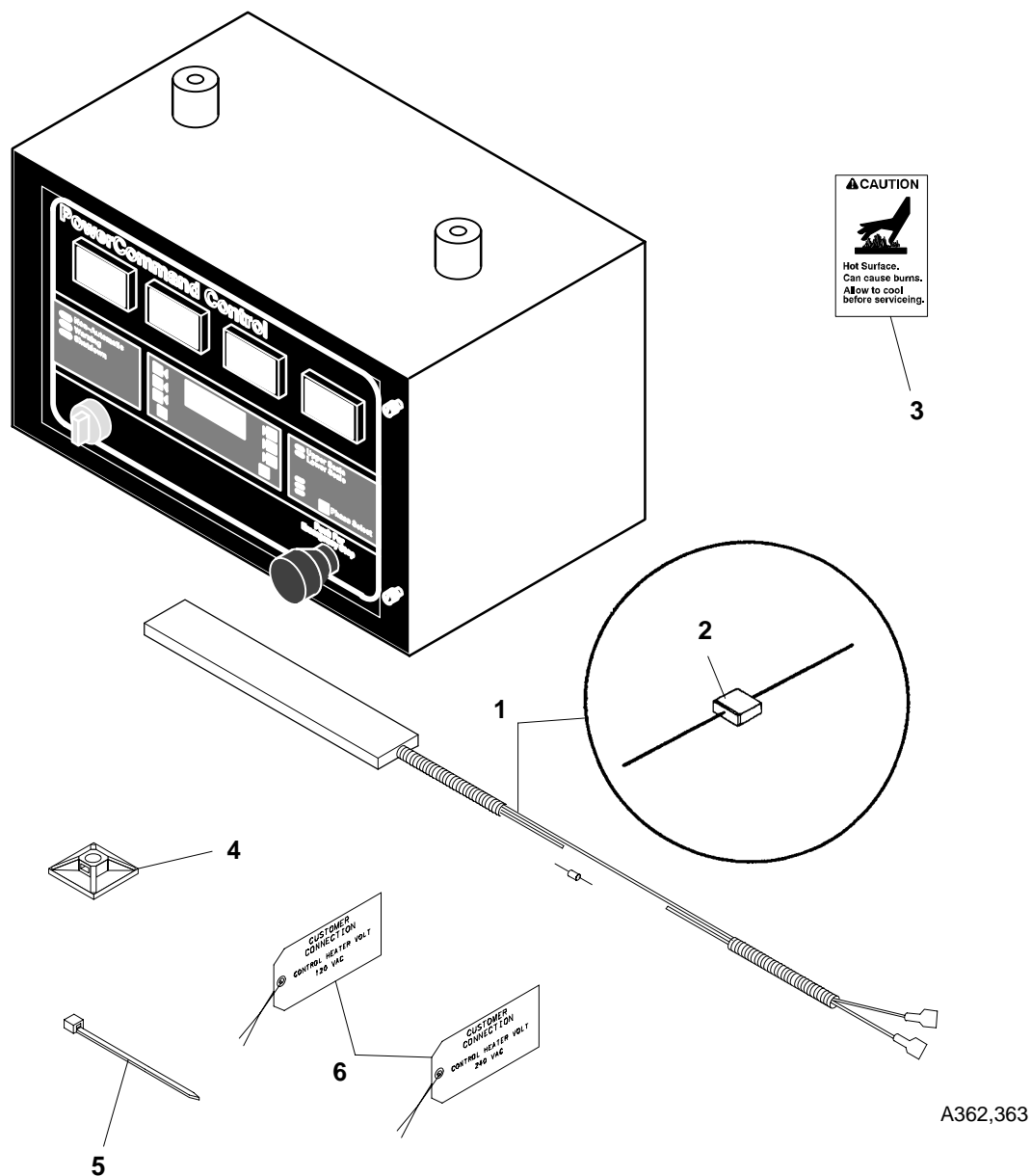
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Door, Control – DC	13	870-0183	2	Nut, Hex – W/ET (#6-32) Used On Some Earlier Models
	301-9055-02	1	Doors With Three Round Gauge Holes	14	517-0131	1	Plug, Hole (Fits 3/8" Hole) Used On Some Early Models
	301-9055-01	1	Doors With Five Round Gauge Holes	15	193-0250	2	Resistor (Mounted on Oil Pressure and Water Temperature Gauges) (R12, R13)
2	815-0385	2	Screw, Machine – Round Head (#6-32 x 1/2")	16	308-1010	1	Switch, Rocker – Lamp Test/Reset Panel Lamp – Preheat (S11)
3	870-0183	2	Nut, Hex – W/ET (#6-32)	17	308-1011	1	Switch, Rocker – Run/Stop/Remote (S12)
4			Light Assembly, Indicator (Includes Wiring Harness and Connector Housing) (A12)	18	517-0137	1	Plug, Hole (Fits 7/8" Hole) Used On Some Early Models
	322-0359-02	1	7 Light Assembly	19	517-0301	1	Plug, Hole (Fits 2" Hole) Quantity Used As Required – Used On Some Early Models
	322-0360-02	1	12 Light Assembly	20	850-0030	8	Washer, Lock – Spring (#10)
5	322-0369-02	1	Light, Indicator – Replacement	21	871-0010	16	Nut, Hex – Brass (#10-32)
6	322-0361	1	Light, Panel (DS11)	22	853-0008	1	Washer, Lock – ET (#10)
7	322-0017	1	Bulb, Panel Light – Replacement	23	526-0409	8	Washer, Nylon (3/8" OD x .194" ID x 1/8" Thk)
8	193-0466	1	Gauge, Oil Pressure (M11)	24	526-0049	16	Washer, Flat (#10)
9	193-0351	1	Gauge, Water Temperature (M12)	25	302-2002	1	Hourmeter (M14)
10	302-1642	1	Voltmeter (M13)				
11	302-0885	1	Meter, Time Totalizing (M14) Used On Some Earlier Models				
12	815-0385	2	Screw, Machine – Round Head (#6-32 x 1/2") Used On Some Earlier Models				

AC Control Door Assembly Generator Sets With Detector Control



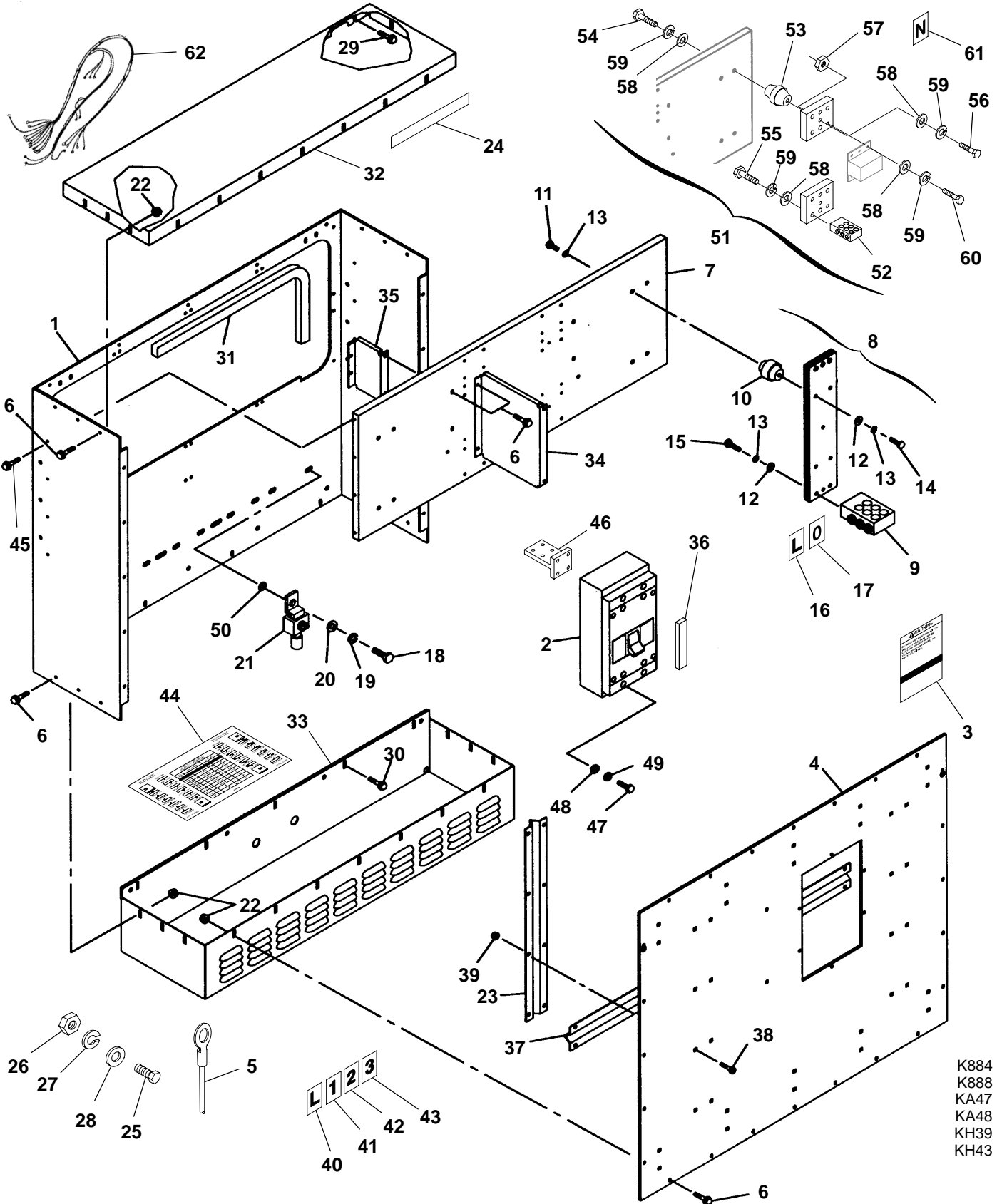
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9054-01	1	Door, Control – AC With Four Meter Holes	6	355-0189	1	Capacitor – Voltmeter (.1 Mfd., 500 WVDC) (C21)
	301-9054-04	1	With Six Meter Holes	7	308-1052	1	Switch, Rotary – Voltmeter/ Ammeter (Includes Knob) (S21)
2	322-0363	1	Light, Indicator – Upper/ Lower Scale (DS21, DS22)	8	517-0302	1	Plug, Hole (Fits 2-1/4" Hole)
3	302-1148	1	Voltmeter (M21) Scale Reads 0-300/600	9	517-0131	1	Plug, Hole (Fits 3/8" Hole) Used On Some Early Models
	302-1753	1	Scale Reads 0-750	10	303-0032	1	Knob, Rotary Switch (Earlier Round Style) Used On Some Early Models
	302-1938	1	Scale Reads 0-5200	11	308-1082	1	Knob, Rotary Switch (Later Wedge Style)
4	302-1724	1	Ammeter (M22) Scale Reads 0-250/0-500	12	815-0875-02	3	Screw, Machine – Round Head (M4 x 8mm)
	302-1725	1	Scale Reads 0-375/0-750				
	302-1799	1	Scale Reads 0-1500/0-3000				
	302-1800	1	Scale Reads 0-2000/0-4000				
	302-1908	1	Scale Reads 0-3000/0-6000				
5	302-1968	1	Meter, Frequency (M23)				

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 –	4	332-3338	1	Mount, Cable
	300-4515-01	1	100 Watt (Includes Rectifier)	5	332-0942	1	Tie, Cable (Quantity Used As
	300-4515-02	1	120 Volt				Required)
2	357-0114	1	240 Volt	6			Tag, Heater
3	098-6195	1	Rectifier (3 Amp)		098-6927	1	120V
			Label, Caution		098-6828	1	240V

**Circuit Breaker
UL Listed
DFLB Spec K Through M
DFLC, DFMB Spec K Through N**



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KA47
KA48
KH39
KH43

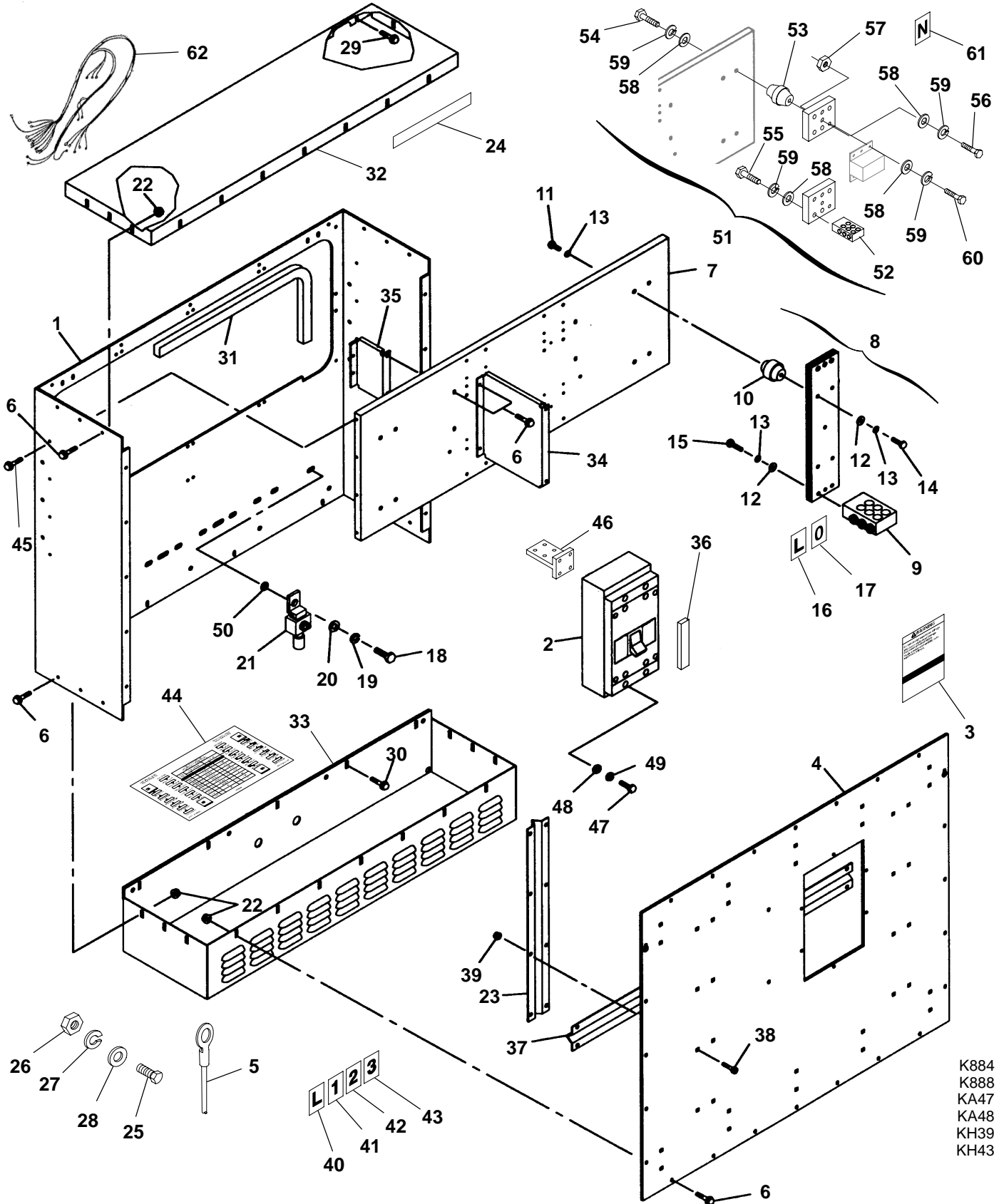
**Circuit Breaker
UL Listed
DFLB Spec K Through M
DFLC, DFMB Spec K Through N**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1957	1	Box, Circuit Breaker	5			Lead – Circuit Breaker
2			Breaker, Circuit (Includes Mounting Screws) 3 Pole (CB21)				(Quantity Used As Required) (Without Markings) (#1/0 Wire)
			100% rated circuit breakers. Frame size CM2000-HH circuit breakers include bus bars (T-bars). Standard	226-4406-05	1		Used with Circuit Breakers With 4 Wire Ground Fault – 3/8" Ring Terminal End to 1" Stripped End (39")
	320-1783	1	Frame Size CM1600-HH	226-4498-03	1		Used with All Other Circuit Breakers – 1/2" Ring Terminal End to 1/2" Ring Terminal End (30")
	320-1783-02	1	Frame Size CM2000-HH	6	821-0010	44	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
			With 4 Wire Ground Fault	7	319-1962	1	Bracket, Mounting – Circuit Breaker
	320-1783-12	1	Frame Size CM1600-HH	8	300-4480-01	1	Bar Assembly, Neutral (Includes Neutral Bars and Parts Marked *)
	320-1783-14	1	Frame Size CM2000-HH	9	332-3303-01	1	* Lug, Solderless
			With 24 Volt Shunt Trip	10	332-2744-07	4	* Standoff, Insulator
	320-1783-04	1	Frame Size CM1600-HH	11	800-0048	4	* Screw, Cap – Hex Head (3/8-16 x 3/4")
	320-1783-06	1	Frame Size CM2000-HH	12	526-2120	7	* Washer, Flat (M10)
			With Auxiliary Contacts and Bell Alarm	13	850-2010	11	* Washer, Lock – Spring (M10)
	320-1783-17	1	Frame Size CM1600-HH	14	800-0052	4	* Screw, Cap – Hex Head (3/8-16 x 1-1/2")
	320-1783-19	1	Frame Size CM2000-HH	15	800-2089	3	* Screw, Cap – Hex Head (M10 x 40mm)
			With Auxiliary Contacts, Bell Alarm and 24 Volt Shunt Trip	16	098-5854-06	1	* Label, Marker (10 Characters Per Card) Marked "L"
	320-1783-08	1	Frame Size CM1600-HH	17	098-5854-10	1	* Label, Marker (10 Characters Per Card) Marked "0"
	320-1783-10	1	Frame Size CM2000-HH	18	800-0050	1	Screw, Cap – Hex Head (3/8-16 x 1")
3	098-2304	1	Label, Warning	19	850-0050	1	Washer, Lock – Spring (3/8")
4	319-1959-01	1	Cover, Circuit Breaker	20	526-0029	2	Washer, Flat (3/8")
				21	332-2001	1	Lug, Solderless
				22	870-0494	26	Nut, Self-Retaining – Floating (1/4-20)
				23	319-2398	2	Brace, Cover (Vertical)

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

Continued...

**Circuit Breaker
UL Listed
DFLB Spec K Through M
DFLC, DFMB Spec K Through N**



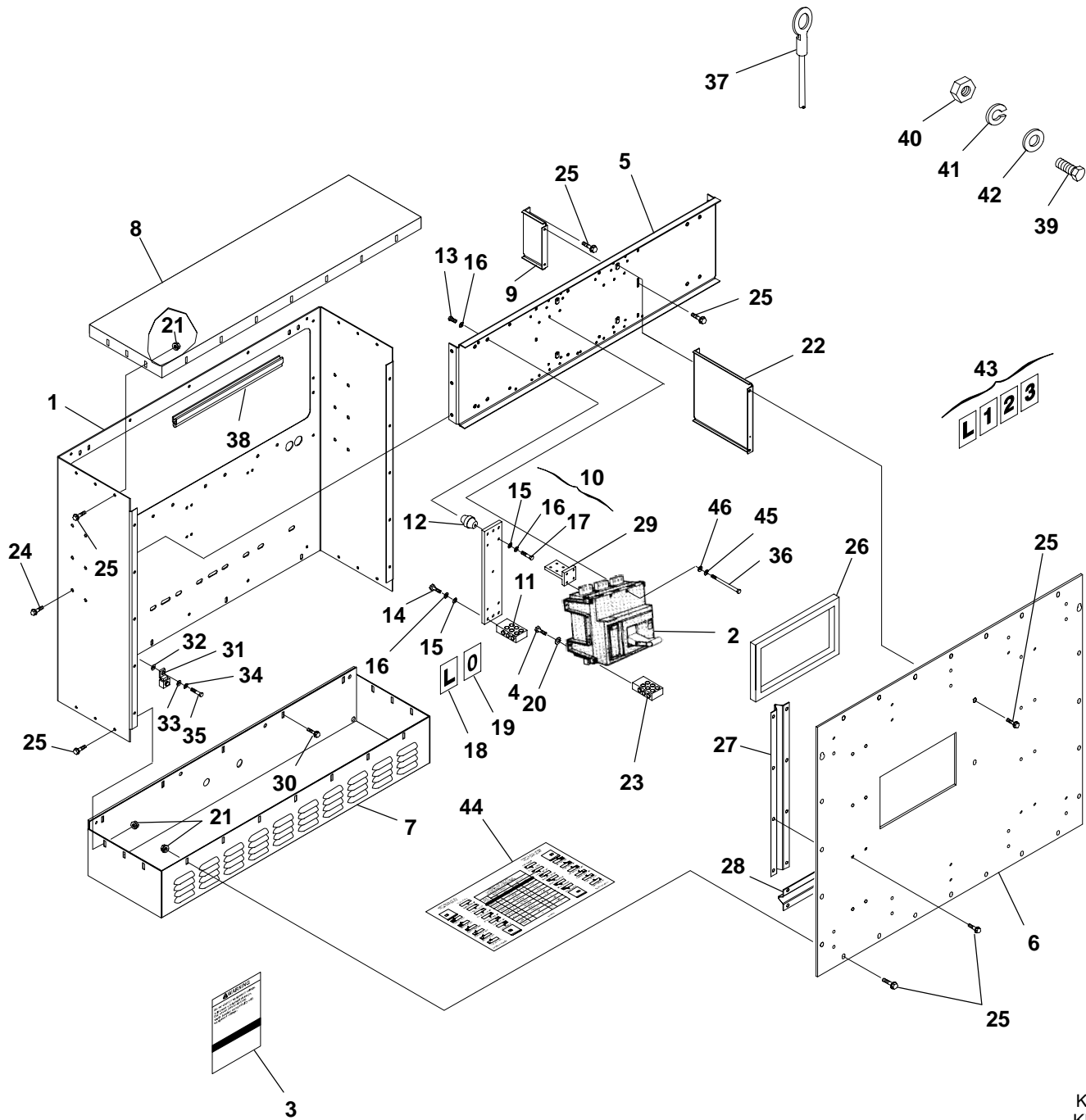
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KH39
KH43

**Circuit Breaker
UL Listed
DFLB Spec K Through M
DFLC, DFMB Spec K Through N**

Continued...

24	091-0002	1	Strip, Copper (Used for wrapping ends of leads before securing to circuit breakers and neutral bar lug) (Quantity Used As Required)	43	098-5854-09	1	Label, Marker (10 Characters Per Card) Marked "3"
				44	098-6865	1	Label, Conduit Locations
				45	821-0030	6	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")
				46			Bar, Bus (T-Bar) (Includes Mounting Hardware)
			The following four hardware items are used to fasten the load leads to the generator and neutral bar. Quantity used as required.		337-2789	4	Sets With CM1600-HH Breakers
					337-2789	1	Sets With CM2000-HH Breakers
25	800-0094	1	Screw, Cap – Hex Head (1/2-13 x 2")	47	800-0033	4	Screw, Cap – Hex Head (5/16-18 x 2")
26	862-0005	1	Nut, Hex (1/2-13)	48	526-0115	4	Washer, Flat (5/16")
27	850-0060	1	Washer, Lock – Spring (1/2")	49	850-0045	4	Washer, Lock – Spring (5/16")
28	526-0219	1	Washer, Flat (1/2")	50	856-0010	1	Washer, Lock – EIT (3/8")
29	821-0018	5	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")	51	337-2794	1	Bar Assembly, Neutral (Includes Neutral Bars and Parts Marked #) (Note: Used With Circuit Breaker Applications With 4 Wire Ground Fault)
30	821-0011	5	Screw, Self-Locking – Hex Washer Head (1/4-20 x 7/8")				
31			Edging – Bulk (Order By The Foot – 3 Feet Required)	52	332-3303	1	# Lug, Solderless
	508-1092	–	Used with Circuit Breakers With 4 Wire Ground Fault	53	332-2744-07	2	# Standoff, Insulated
	508-1109	–	Used With All Other Circuit Breakers	54	800-0048	2	# Screw, Cap – Hex Head (3/8-16 x 3/4")
32	319-1961	1	Panel – Top	55	800-0053	3	# Screw, Cap – Hex Head (3/8-16 x 1-3/4")
33	319-1925	1	Panel – Bottom	56	800-0051	2	# Screw, Cap – Hex Head (3/8-16 x 1-1/4")
34	319-1926-02	1	Brace, Cover	57	862-0003	6	# Nut, Hex (3/8")
35	319-2316-02	1	Brace, Mounting Bracket – Circuit Breaker	58	526-0030	22	# Washer, Flat (3/8")
				59	850-0050	13	# Washer, Lock – Spring (3/8")
36	895-0182	–	Stripping, Weather – Bulk (Order By The Foot) (4 Feet Required)	60	800-0055	6	# Screw, Cap – Hex Head (3/8-16 x 2-1/4")
				61	098-5854-04	1	# Label, Marker (10 Characters Per Card) Marked "N"
37	319-2399	2	Brace, Cover (Horizontal)	62	338-3012	1	Harness, Wiring – Neutral Sensor to Circuit Breaker (2 Wire, 30") Used With Circuit Breakers With 4 Wire Ground Fault
38	816-0098	36	Bolt, Carriage (5/16-18 x 5/8")				
39	870-0257	36	Nut, Locking (5/16-18)				
40	098-5854-06	3	Label, Marker (10 Characters Per Card) Marked "L"				
41	098-5854-07	1	Label, Marker (10 Characters Per Card) Marked "1"				
42	098-5854-08	1	Label, Marker (10 Characters Per Card) Marked "2"				

**Circuit Breaker
UL Listed
DFLB Begin Spec N
DFLC, DFMB Begin Spec P**



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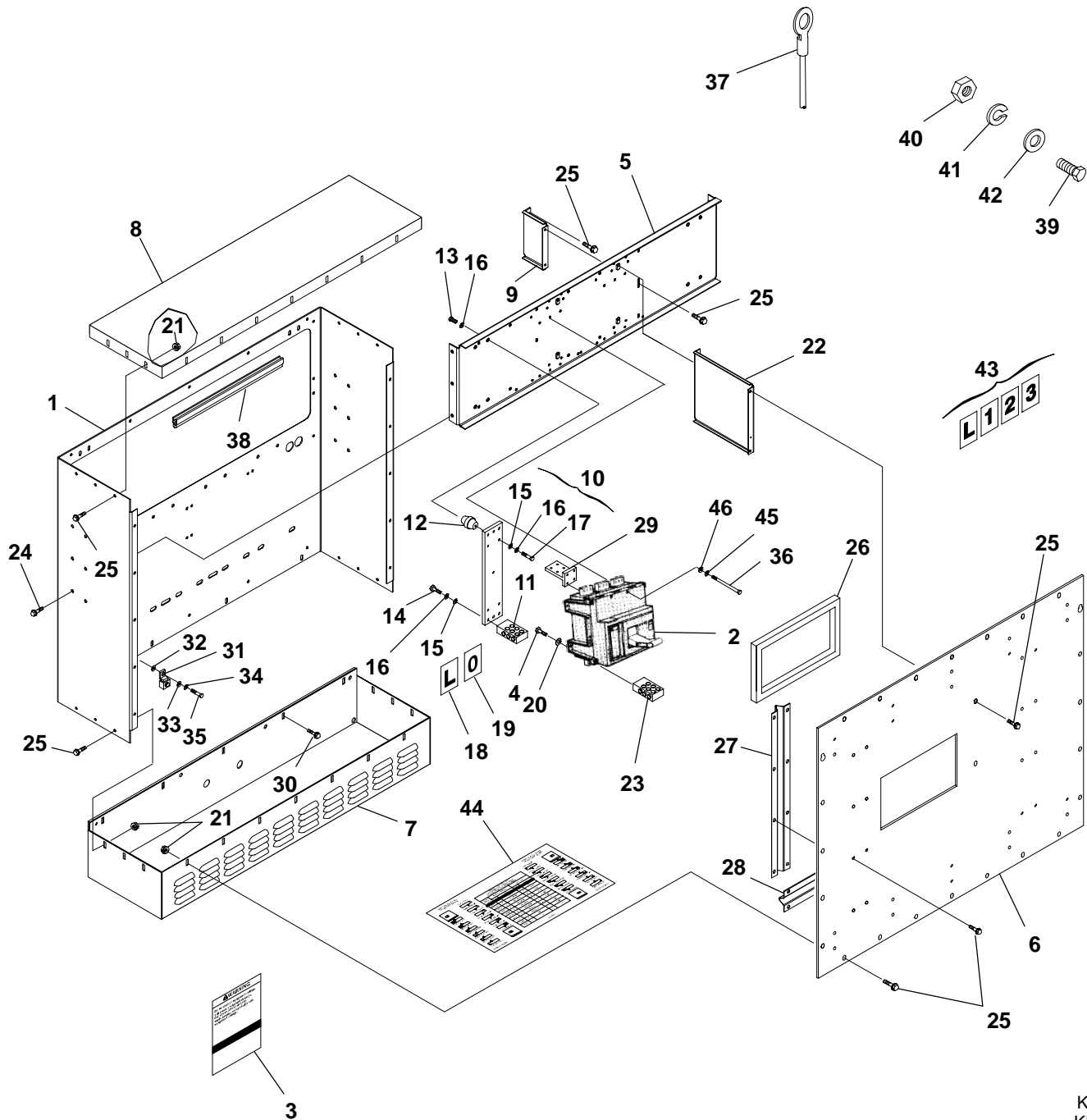
**Circuit Breaker
UL Listed
DFLB Begin Spec N
DFLC, DFMB Begin Spec P**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3184	1	Box, Circuit Breaker	7	319-1925	1	Panel – Bottom
2			Breaker, Circuit – 3 Pole, 100% Rated (Includes Mounting Screws) Frame Size CM2000-HH Circuit Breakers Include Bus Bars (T-bars) (CB21)	8	319-1961	1	Panel – Top
			Standard	9	319-3253-02	1	Brace, Mounting – Circuit Breaker
320-1783	1		Frame Size	10	300-4480-01	1	Bar Assembly, Neutral (Includes Neutral Bars and Parts Marked *)
			CM1600-HH	11	332-3303-01	1	* Lug, Solderless
320-1783-02	1		Frame Size	12	332-2744-07	4	* Standoff, Insulator
			CM2000-HH	13	800-0048	4	* Screw, Cap – Hex Head (3/8-16 x 3/4")
320-1783-03	1		Frame Size	14	800-2089	3	* Screw, Cap – Hex Head (M10 x 40mm)
			CM2500-HH –	15	526-2120	7	* Washer, Flat (M10)
			DFLB Begin Spec N	16	850-2010	11	* Washer, Lock – Spring (M10)
			DFLC Begin Spec R	17	800-0052	4	* Screw, Cap – Hex Head (3/8-16 x 1-1/2")
			With 24 Volt Shunt Trip	18	098-5854-06	1	* Label, Marker (10 Characters Per Card) Marked "L"
320-1783-04	1		Frame Size	19	098-5854-10	1	* Label, Marker (10 Characters Per Card) Marked "0"
			CM1600-HH	20	850-2010	10	Washer, Lock – Spring (M10) CM1600-HH Breakers
320-1783-06	1		Frame Size	21	870-0504	26	Nut, Self-Retaining (M6)
			CM2000-HH	22	319-3252-02	1	Brace, Cover
320-1783-07	1		Frame Size	23	332-3303-01	3	Lug, Solderless
			CM2500-HH –	24	821-6003-02	6	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)
			DFLB Begin Spec N	25	821-6002-03	85	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)
			DFLC Begin Spec R	26	895-0182	–	Stripping, Weather – Bulk (Order By The Foot – 4 Feet Required)
			With Auxiliary Contacts and Bell Alarm	27	319-3286	2	Brace, Cover (Vertical)
320-1783-17	1		Frame Size	28	319-3288	2	Brace, Cover (Horizontal)
			CM1600-HH	29			Bar, Bus (T-Bar) (Includes Mounting Hardware)
320-1783-19	1		Frame Size		337-2789	4	Sets With CM1600-HH Breakers
			CM2000-HH		337-2789	1	Sets With CM2000-HH, CM2500-HH Breakers
320-1783-20	1		Frame Size	30	821-2035	5	Screw, Self-Locking – Hex Washer Head (M6 x 25mm)
			CM2500-HH –	31	332-2001	1	Lug, Solderless
			DFLB Begin Spec N	32	856-0010	1	Washer, Lock – EIT (3/8")
			DFLC Begin Spec R	33	526-2120	1	Washer, Flat (M10)
			With Auxiliary Contacts, Bell Alarm and 24 Volt Shunt Trip	34	850-2010	1	Washer, Lock – Spring (M10)
320-1783-08	1		Frame Size	35	800-2086	1	Screw, Cap – Hex Head (M10 x 25mm)
			CM1600-HH	36	800-2063	4	Screw, Cap – Hex Head (M8 x 50mm)
320-1783-10	1		Frame Size				
			CM2000-HH				
320-1783-11	1		Frame Size				
			CM2500-HH –				
			DFLB Begin Spec N				
			DFLC Begin Spec R				
3	098-2304	1	Label, Warning				
4	800-2089	9	Screw, Cap – Hex Head (M10 x 40mm) CM1600-HH Breakers				
5	319-3153	1	Bracket, Mounting				
6	319-3266-01	1	Cover, Circuit Breaker				

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

Continued...

**Circuit Breaker
UL Listed
DFLB Begin Spec N
DFLC, DFMB Begin Spec P**



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**Circuit Breaker
UL Listed
DFLB Begin Spec N
DFLC, DFMB Begin Spec P**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
37	226-4498-03	1	Lead – Circuit Breaker (Quantity Used As Required) 30" (Without Markings) (#1/0 Wire)	40	860-2010	1	Nut, Hex (M12)
				41	850-2012	1	Washer, Lock – Spring (M12)
				42	526-2140	1	Washer, Flat (M12)
				43			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
38	508-1109	–	Edging – Bulk (Order By The Foot – 3 Feet Required) The following four hardware items are used to fasten the load leads to the generator and neutral bar. Quantity used as required.		098-5854-06	3	Marked "L"
					098-5854-07	1	Marked "1"
					098-5854-08	1	Marked "2"
					098-5854-09	1	Marked "3"
				44	098-6865	1	Label, Conduit Locations
				45	850-2008	4	Washer, Lock – Spring (M8)
39	800-2116	1	Screw, Cap – Hex Head (M12 x 50mm)	46	526-2100	4	Washer, Flat (M8)

DFMB Spec L

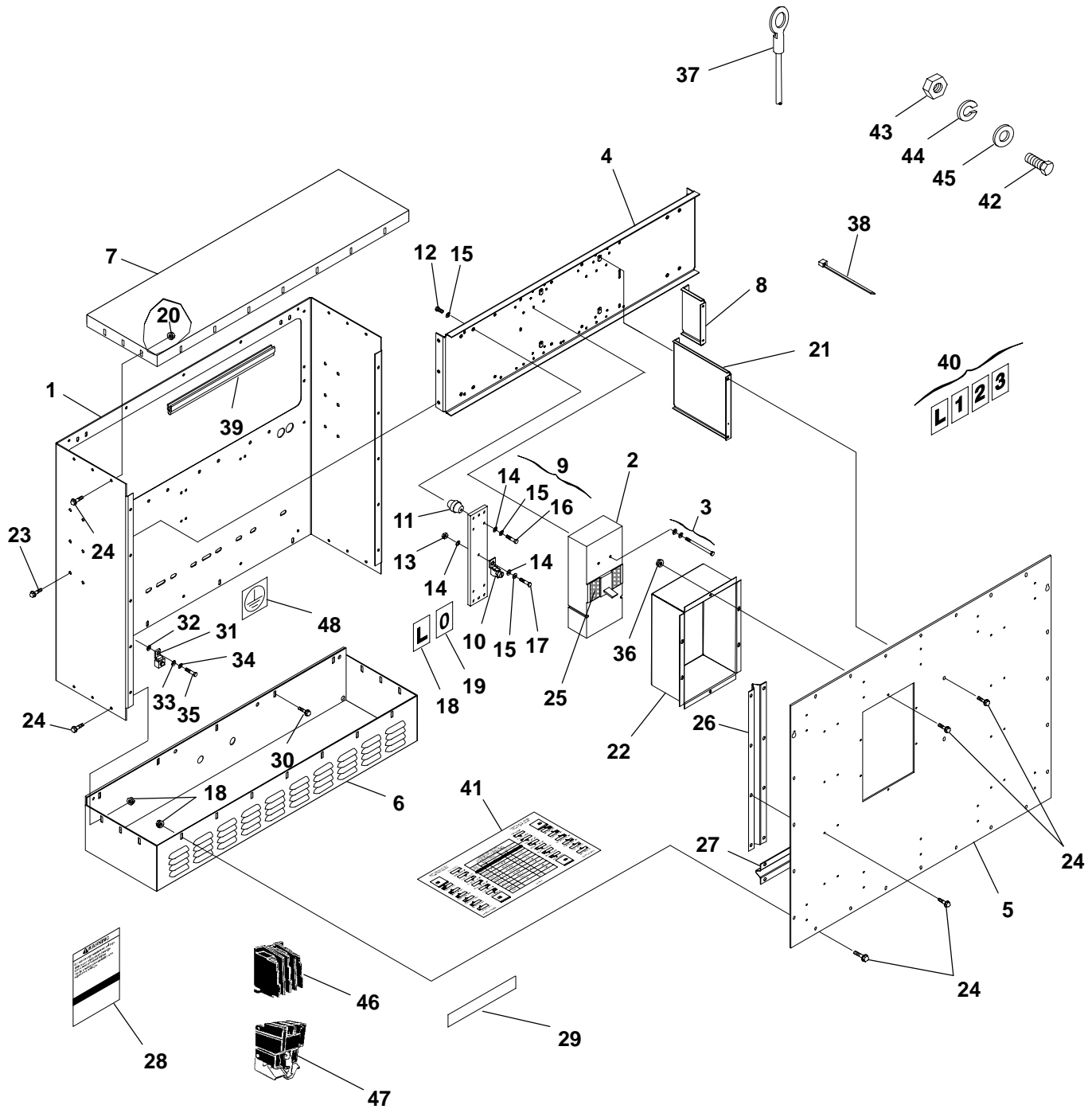


**Circuit Breaker
UL Listed
DFLC Spec M Through N
DFMB Spec L**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit (Includes Mounting Screws) 3 Pole (CB21) – Standard (Has interchangeable trip and includes the lugs)	26	091-0002	1	Strip, Copper (Used for wrapping ends of leads before securing to circuit breakers and neutral bar lug) (Quantity Used As Required)
	320-1461-07	1	700 Amp				The following four hardware items are used to fasten the load leads to the generator and neutral bar. Quantity used as required.
	320-1461-09	1	1000 Amp				
2	319-1957	1	Box, Circuit Breaker				
3	098-2304	1	Label, Warning				
4	319-1964	1	Cover, Circuit Breaker				
5			Lead – Circuit Breaker (Quantity Used As Required) (Without Markings) (#1/0 Wire)	27	800-0094	1	
	226-4406-03	1	1/2" Ring Terminal End to 1" Stripped End	28	862-0005	1	
	226-4406-04	1	1/2" Ring Terminal End to 1/2" Ring Terminal End	29	850-0060	1	
				30	526-0219	1	
				31	821-0018	5	
6	821-0010	52	Screw, Self-Locking – Hex Washer Head (1/4–20 x 1/2")				Screw, Self-Locking – Hex Washer Head (1/4–20 x 7/8")
7	319-1963	1	Bracket, Mounting – Circuit Breaker	32	821-0011	5	
8	300-4480-01	1	Bar Assembly, Neutral (Includes Neutral Bars, Labels and Parts Marked *)	33	508-1109	–	
			(Note: Used In All Circuit Breaker Applications Except CM1250-HH to CM2000-HH With 4 Wire Ground Fault)	34	319-1961	1	
9	332-3303-01	1	* Lug, Solderless	35	319-1925	1	
10	332-2744-07	4	* Standoff, Insulator	36	319-1926-01	1	
11	800-0048	4	* Screw, Cap – Hex Head (3/8–16 x 3/4")	37	319-2316-01	1	
12	526-2120	7	* Washer, Flat (M10)	38	895-0182	–	
13	850-2010	11	* Washer, Lock – Spring (M10)				
14	800-0052	4	* Screw, Cap – Hex Head (3/8–16 x 1-1/2")	39	319-2399	2	
15	800-2089	3	* Screw, Cap – Hex Head (M10 x 40mm)	40	816-0098	36	Bolt, Carriage (5/16–18 x 5/8")
16	098-5854-06	1	* Label, Marker (10 Characters Per Card) Marked "L"	41	870-0257	36	Nut, Locking (5/16–18)
17	098-5854-10	1	* Label, Marker (10 Characters Per Card) Marked "0"	42	098-5854-06	3	Label, Marker (10 Characters Per Card) Marked "L"
18	800-0050	1	Screw, Cap – Hex Head (3/8–16 x 1")	43	098-5854-07	1	Label, Marker (10 Characters Per Card) Marked "1"
19	850-0050	1	Washer, Lock – Spring (3/8")	44	098-5854-08	1	Label, Marker (10 Characters Per Card) Marked "2"
20	526-0029	4	Washer, Flat (3/8")	45	098-5854-09	1	Label, Marker (10 Characters Per Card) Marked "3"
21	332-2001	1	Lug, Solderless	46	821-0010	6	Screw, Self-Locking – Hex Washer Head
22	870-0494	26	Nut, Self-Retaining – Floating (1/4–20)	47	800-0031	4	Screw, Cap – Hex Head (5/16–18 x 1-1/2")
23	319-2398	2	Brace, Cover (Vertical)	48	526-0115	4	Washer, Flat (5/16")
24	319-2431-18	1	Cup, Circuit Breaker	49	850-0045	4	Washer, Lock – Spring (5/16")
25	870-0212	6	Nut, Locking (1/4–20)	50	856-0010	1	Washer, Lock – EIT (3/8")
				51	098-6865	1	Label, Conduit Locations

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

Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
DFLC Spec R Through S
DFMB Begin Spec R



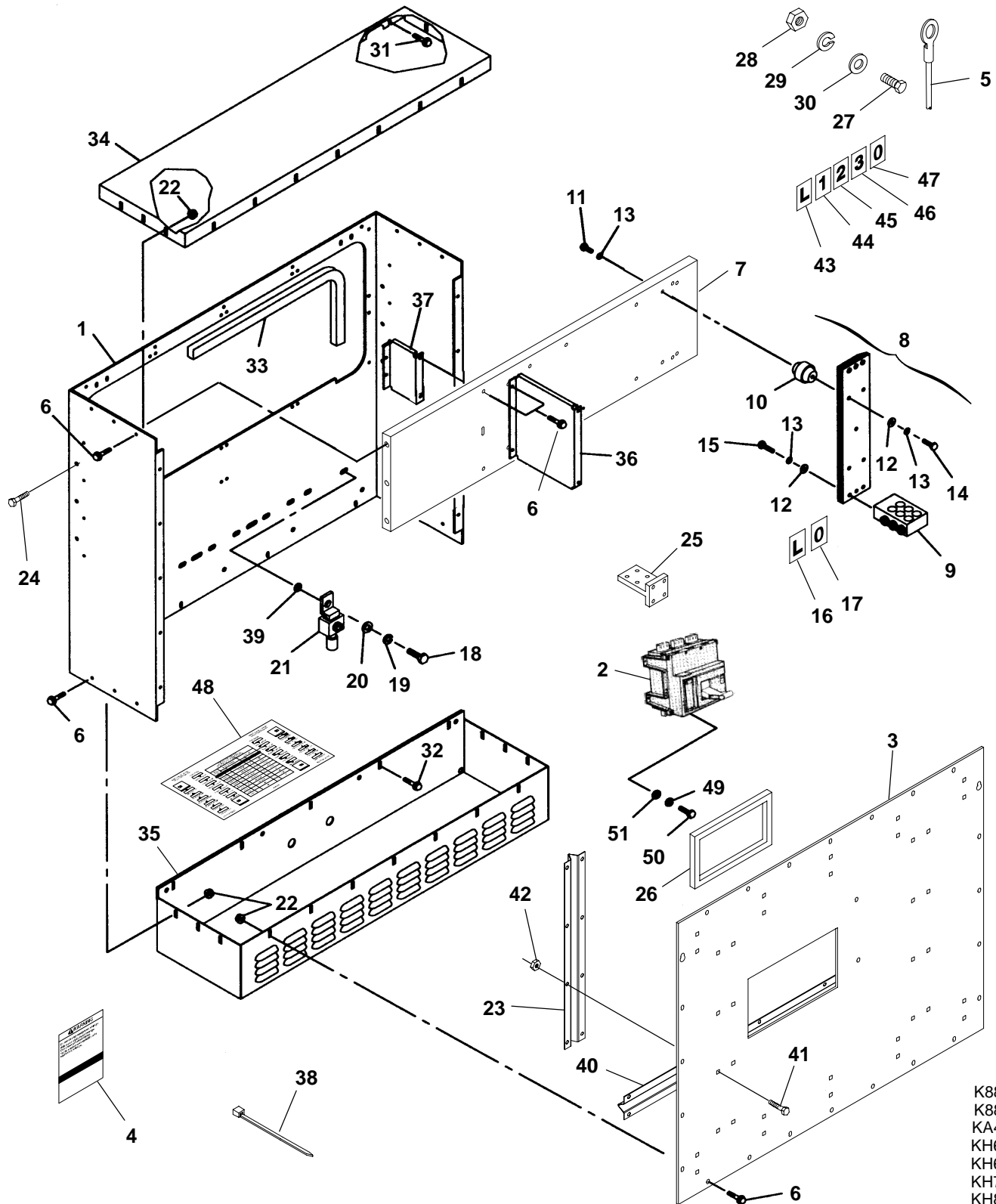
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Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
DFLC Spec R Through S
DFMB Begin Spec R

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3184	1	Box, Circuit Breaker	29	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers and disconnect switch) (Quantity Used As Required)
2			The following listed Circuit Breakers and Disconnect Switch include lugs and mounting hardware.				
			Circuit Breakers				
			3 Pole (UL, IEC)	30	821-2034	5	Screw, Self-Locking – Hex Washer Head (M6 x 20mm)
	320-1964-03	1	900 Amp	31	332-2001	1	Lug, Solderless
	320-1964-02	1	1000 Amp	32	856-0010	1	Washer, Lock – EIT (3/8")
	320-1964-01	1	1200 Amp	33	526-2120	1	Washer, Flat (M10)
3	320-1986-01	1	Package, Hardware – Mounting (Includes Screws, Nuts and Lock Washers – 1 Package Required Per Switch) Used With 320-1964-XX Circuit Breakers	34	850-2010	1	Washer, Lock – Spring (M10)
				35	800-2086	1	Screw, Cap – Hex Head (M10 x 25mm)
				36	870-2054	6	Nut, Hex – Flange (M6)
				37			Lead (Quantity Used As Required) 39" (Without Markings) (#1/0 Wire)
4	319-3153	1	Bracket, Mounting				1/2" Ring Terminal End to 1" Stripped End
5	319-3300	1	Cover		226-4406-03	1	1/2" Ring Terminal End to 1" Stripped End
6	319-1925	1	Panel – Bottom				1/2" Ring Terminal End to 1" Stripped End
7	319-1961	1	Panel – Top		226-4406-04	1	1/2" Ring Terminal End to 1" Stripped End
8	319-3253-01	1	Brace, Cover				
9	300-4318-01	1	Bar Assembly, Neutral – Used on 3 Pole Circuit Breakers and Disconnect Switch (Includes Neutral Bars, Labels and Parts Marked *)	38	332-1389	1	Tie, Wire (Quantity Used As Required)
				39	508-1109	–	Edging – Bulk (Order By The Foot – 3 Feet Required)
				40			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
10	332-2001	3	* Lug, Solderless				Marked "L"
11	332-2744-07	2	* Standoff, Insulator		098-5854-06	3	Marked "1"
12	800-0048	2	* Screw, Cap – Hex Head (3/8-16 x 3/4")		098-5854-07	1	Marked "2"
					098-5854-08	1	Marked "3"
13	862-0003	3	* Nut, Hex (3/8")		098-5854-09	1	Label, Conduit Locations
14	526-0029	8	* Washer, Flat (3/8")	41	098-6865	1	The following four hardware items are used to fasten the load leads to the generator and neutral bar. Quantity used as required.
15	850-0050	7	* Washer, Lock – Spring (3/8")				
16	800-0051	2	* Screw, Cap – Hex Head (3/8-16 x 1-1/4")				
17	800-0052	3	* Screw, Cap – Hex Head (3/8-16 x 1-1/2")				
18	098-5854-06	1	* Label, Marker (10 Characters Per Card) Marked "L"	42	800-2114	1	Screw, Cap – Hex Head (M12 x 40mm)
19	098-5854-10	1	* Label, Marker (10 Characters Per Card) Marked "0"	43	860-2010	1	Nut, Hex (M12)
20			Nut, Self-Retaining (M6)	44	850-2012	1	Washer, Lock – Spring (M12)
	870-0504	30	DFLC	45	526-2140	1	Washer, Flat (M12)
	870-0504	26	DFMB				Accessories, Circuit Breaker: The following are used on 320-1964-XX Circuit Breakers
21	319-3252-01	1	Brace, Cover				Switches – Includes 1 Trip Alarm and 1 Auxilliary Contact
22	319-2431-28	1	Cup				24 Volt Shunt Trip
23	821-6003-02	6	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)	46	320-1977-01	1	Label, Ground
24	821-6002-03	91	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)				
25	895-0182	–	Stripping, Weather – Bulk (Order By The Foot – 1 Foot Required)	47	320-1977-03	1	
				48	098-6537	1	
26	319-3286	2	Brace, Cover (Vertical)				
27	319-3288	2	Brace, Cover (Horizontal)				
28	098-2304	1	Label, Warning				

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

**Circuit Breaker
IEC Conformity
DFLB Spec K Through M
DFLC, DFMB Spec K Through N**



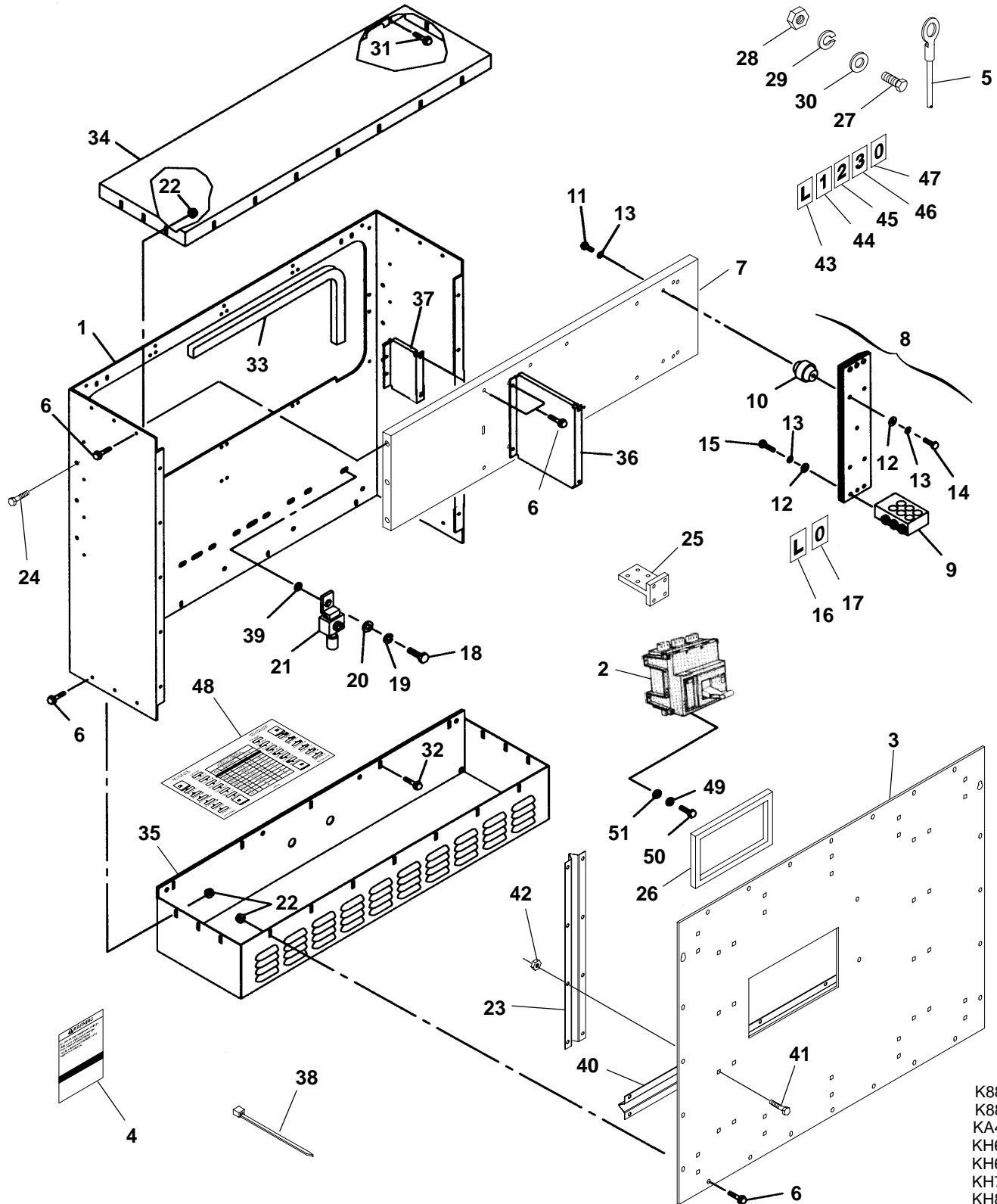
**Circuit Breaker
IEC Conformity
DFLB Spec K Through M
DFLC, DFMB Spec K Through N**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1957	1	Box, Circuit Breaker	4	098-2304	1	Label, Warning
2			Breaker, Circuit (Includes Mounting Screws) (CB21)	5	226-4498-03	1	Lead – Circuit Breaker (Quantity Used As Required) 30" (Without Markings) (#1/0 Wire)
			Three Pole Breakers				
			Standard				
	320-1699	1	Frame Size CM1600	6	821-0010	44	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
	320-1699-02	1	Frame Size CM2000				
			With 24 Volt Shunt Trip	7	319-1962	1	Bracket, Mounting – Circuit Breaker
	320-1699-04	1	Frame Size CM1600	8	300-4480-01	1	Bar Assembly, Neutral (Includes Neutral Bars and Parts Marked *) (Used With 3 Pole Circuit Breakers)
	320-1699-06	1	Frame Size CM2000				
			With Auxiliary Contacts, Bell Alarm and 24 Volt Shunt Trip	9	332-3303-01	1	* Lug, Solderless
				10	332-2744-07	4	* Standoff, Insulator
				11	800-0048	4	* Screw, Cap – Hex Head (3/8-16 x 3/4")
	320-1699-08	1	Frame Size CM1600	12	526-2120	7	* Washer, Flat (M10)
	320-1699-10	1	Frame Size CM2000	13	850-2010	11	* Washer, Lock – Spring (M10)
			Four Pole Breakers	14	800-0052	4	* Screw, Cap – Hex Head (3/8-16 x 1-1/2")
			Standard	15	800-2089	3	* Screw, Cap – Hex Head (M10 x 40mm)
	320-1699-21	1	Frame Size CM1600	16	098-5854-06	1	* Label, Marker (10 Characters Per Card) Marked "L"
	320-1699-23	1	Frame Size CM2000	17	098-5854-10	1	* Label, Marker (10 Characters Per Card) Marked "0"
			With 24 Volt Shunt Trip	18	800-0050	1	Screw, Cap – Hex Head (3/8-16 x 1")
	320-1699-25	1	Frame Size CM1600	19	850-0050	1	Washer, Lock – Spring (3/8")
	320-1699-27	1	Frame Size CM2000	20	526-0029	2	Washer, Flat (3/8")
			With Auxiliary Contacts, Bell Alarm and 24 Volt Shunt Trip	21	332-2001	1	Lug, Solderless
				22	870-0494	26	Nut, Self-Retaining – Floating (1/4-20)
	320-1699-29	1	Frame Size CM1600	23			Brace, Cover (Vertical)
	320-1699-31	1	Frame Size CM2000		319-2398	2	Sets With 3 Pole Circuit Breakers
					319-2398	1	Sets With 4 Pole Circuit Breakers
3			Cover, Circuit Breaker				
	319-1959-01	1	Sets With 3 Pole Breaker Mounted On Left Or Right Side When Facing Control	24	821-0030	6	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")
	319-1959-01	1	Sets With 4 Pole Breaker Mounted On Left Side When Facing Control				
	319-1959-02	1	Sets With 4 Pole Breaker Mounted On Right Side When Facing Control				

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

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**Circuit Breaker
IEC Conformity
DFLB Spec K Through M
DFLC, DFMB Spec K Through N**

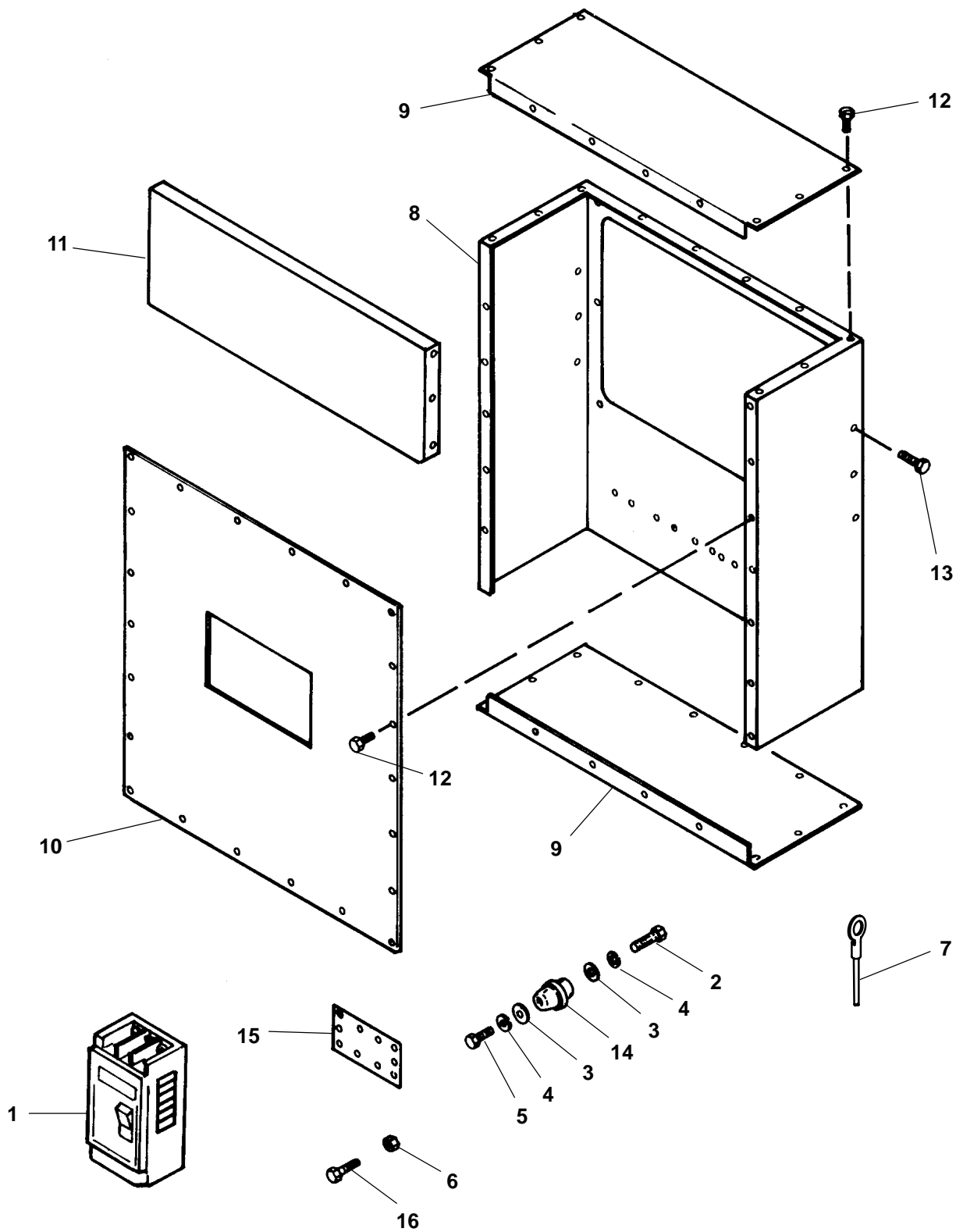


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**Circuit Breaker
IEC Conformity
DFLB Spec K Through M
DFLC, DFMB Spec K Through N**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
25			Bar, Bus (T-Bar) (Includes Mounting Hardware)	41			Bolt, Carriage (5/16–18 x 5/8")
	337–2789	4	Sets With Frame Size CM1600 Circuit Breakers		816–0098	36	Sets With 3 Pole Breaker Mounted On Left Or Right Side When Facing Control
	337–2789	1	Sets With Frame Size CM2000 Circuit Breakers		816–0098	36	Sets With 4 Pole Breaker Mounted On Left Side When Facing Control
26			Stripping, Weather – Bulk (Order By The Foot)		816–0098	28	Sets With 4 Pole Breaker Mounted On Right Side When Facing Control
	895–0182	–	Sets With 3 Pole Circuit Breakers (4 Feet Required)	42			Nut, Locking (5/16–18)
	895–0182	–	Sets With 4 Pole Circuit Breakers (6 Feet Required)		870–0257	36	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. Quantity used as required.		870–0257	36	Sets With 4 Pole Breaker Mounted On Left Side When Facing Control
27	800–0094	1	Screw, Cap – Hex Head (1/2–13 x 2")		870–0257	28	Sets With 4 Pole Breaker Mounted On Right Side When Facing Control
28	862–0005	1	Nut, Hex (1/2–13)	43			Label, Marker (10 Characters Per Card) Marked "L"
29	850–0060	1	Washer, Lock – Spring (1/2")		098–5854–06	3	3 Pole Breakers
30	526–0219	1	Washer, Flat (1/2")		098–5854–06	4	4 Pole Breakers
31	821–0018	5	Screw, Self-Locking – Hex Washer Head (1/4–20 x 5/8")	44	098–5854–07	1	Label, Marker (10 Characters Per Card) Marked "1"
32	821–0011	5	Screw, Self-Locking – Hex Washer Head (1/4–20 x 7/8")	45	098–5854–08	1	Label, Marker (10 Characters Per Card) Marked "2"
33	508–1109	–	Edging – Bulk (Order By The Foot – 3 Feet Required)	46	098–5854–09	1	Label, Marker (10 Characters Per Card) Marked "3"
34	319–1961	1	Panel – Top	47	098–5854–10	1	Label, Marker (10 Characters Per Card) Marked "0"
35	319–1925	1	Panel – Bottom				(4 Pole Breakers)
36	319–1926–02	1	Brace, Cover	48	098–6865	1	Lable, Conduit Locations
37	319–2316–02	1	Brace, Mounting – Circuit Breaker Bracket	49	850–0045	4	Washer, Lock – Spring (5/16")
38	332–1389	1	Tie, Wire (Quantity Used As Required)	50	800–0033	4	Screw, Cap – Hex Head (5/16–18 x 2")
39	856–0010	1	Washer, Lock – EIT (3/8")	51	526–0115	4	Washer, Flat (5/16")
40	319–2399	2	Brace, Cover (Horizontal)				

**Circuit Breaker
IEC Conformity
DFLC Spec M**

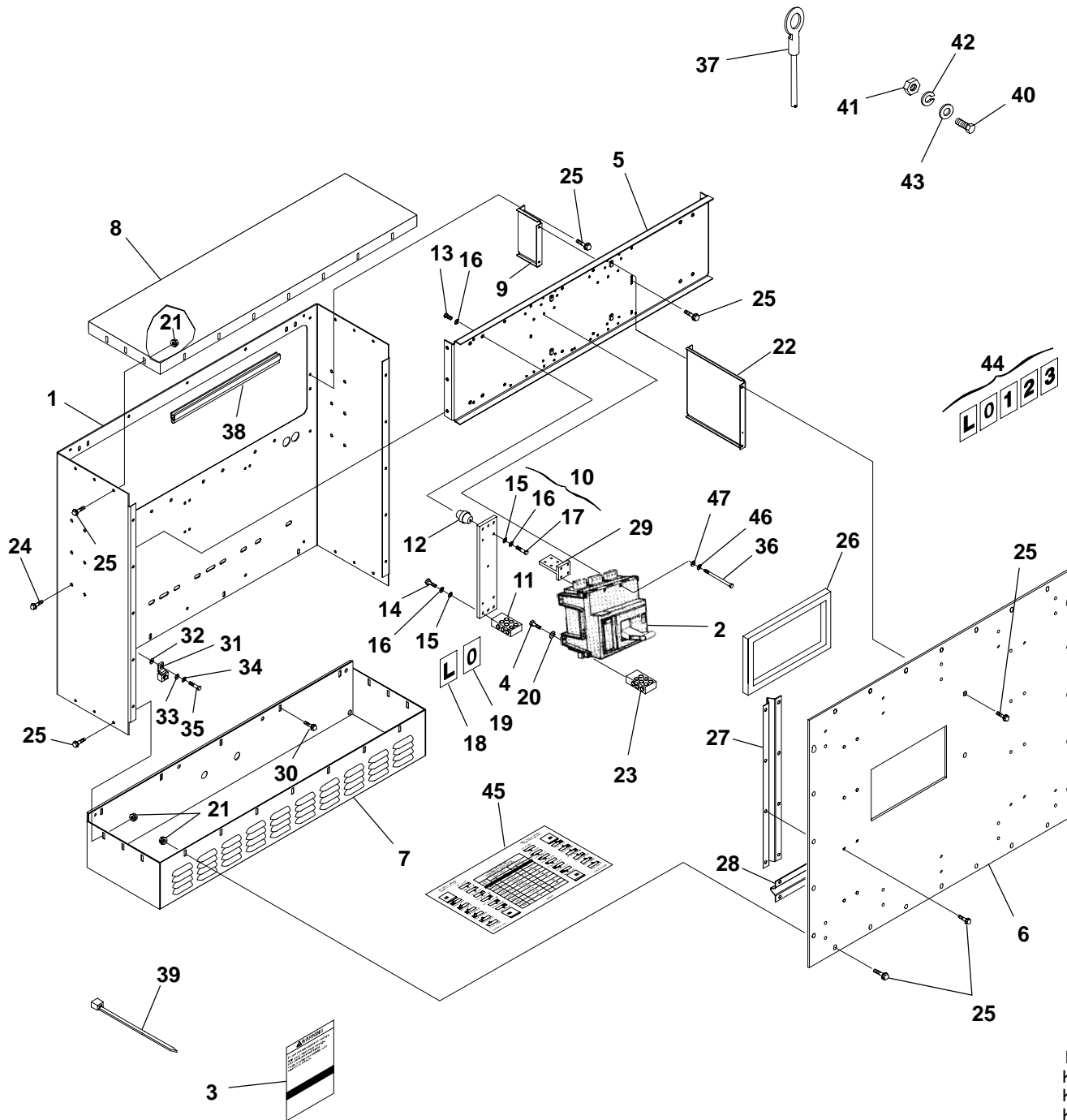


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**Circuit Breaker
IEC Conformity
DFLC Spec M**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	320-1699-03	1	Breaker, Circuit (CB21), Three Pole, Standard – Frame Size CM2500	9	319-0892	2	Panel
2	800-0052	8	Screw, Cap – Hex Head (3/8-16 x 1-1/2")	10	319-1121	1	Cover
3	526-0030	30	Washer, Flat (3/8")	11	319-1120	1	Bracket, Mounting – Circuit Breaker
4	850-0050	19	Washer, Lock – Spring (3/8")	12	821-0010	60	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
5	800-0054	9	Screw, Cap – Hex Head (3/8-16 x 2")	13	821-0031	6	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")
6	862-0003	13	Nut, Hex (3/8-16)	14	332-2744-07	2	Standoff, Insulator (3 Pole Breakers)
7			Lead – Circuit Breaker (1/2" Ring Terminal End to 3/8" Ring Terminal End) (Quantity Used As Required) (#1/0 Wire)	15	337-2702	1	Bar, Neutral (3 Pole Breakers)
	226-4498-01	1	56" (Marked "LO")	16	800-0048	2	Screw, Cap – Hex Head (3/8-16 x 3/4") (3 Pole Breakers)
	226-4498-02	1	40" (Without Markings)				
8	319-0890	1	Box, Circuit Breaker				

**Circuit Breaker
IEC Conformity
DFLB Begin Spec N
DFLC, DFMB Begin Spec P**



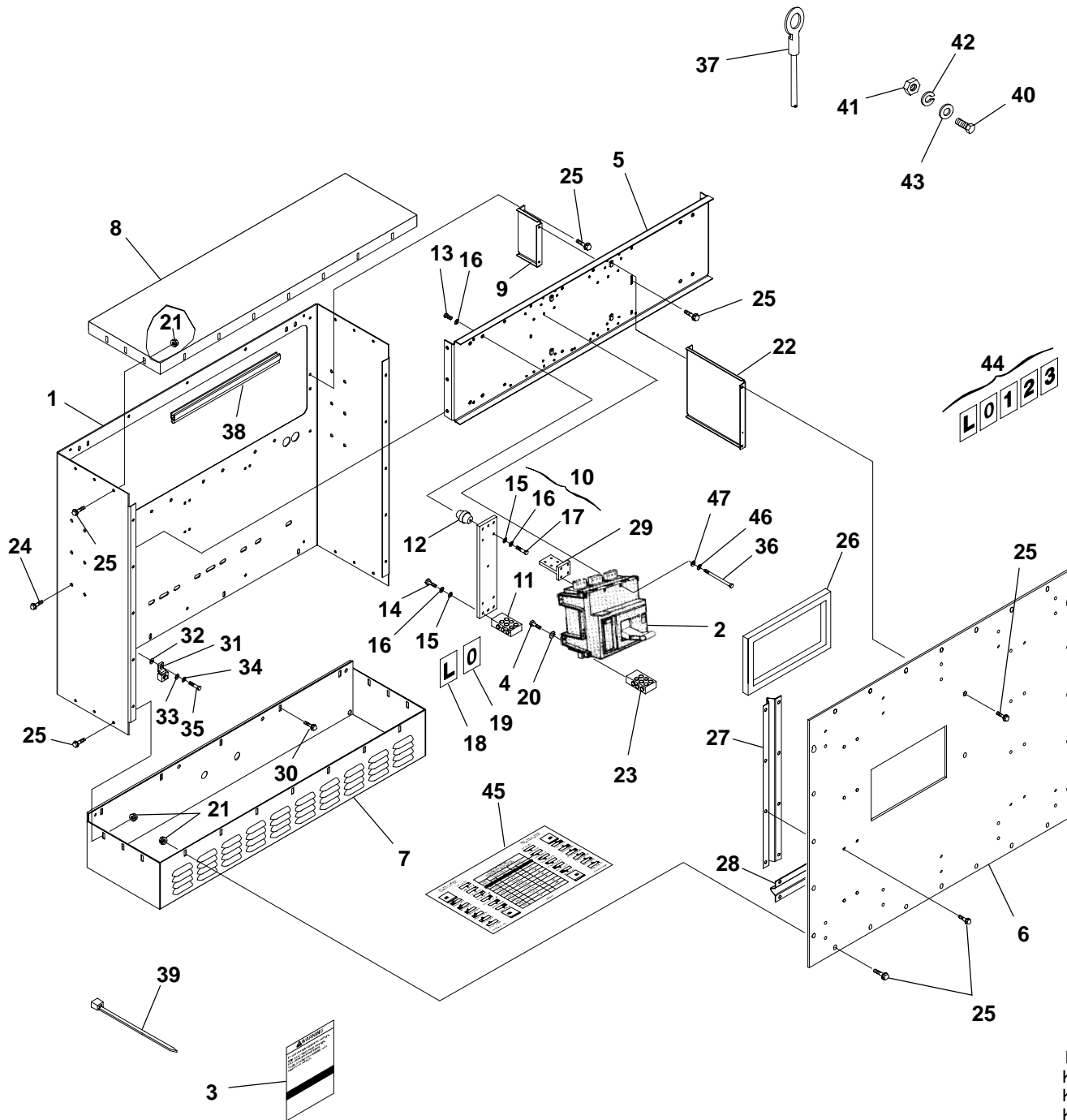
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**Circuit Breaker
IEC Conformity
DFLB Begin Spec N
DFLC, DFMB Begin Spec P**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3184	1	Box, Circuit Breaker	13	800-0048	4	* Screw, Cap – Hex Head (3/8-16 x 3/4")
2			Breaker, Circuit (Includes Mounting Screws) (CB21)	14	800-2089	3	* Screw, Cap – Hex Head (M10 x 40mm)
			Three Pole Breakers	15	526-2120	7	* Washer, Flat (M10)
			Standard	16	850-2010	11	* Washer, Lock – Spring (M10)
	320-1699	1	Frame Size CM1600	17	800-0052	4	* Screw, Cap – Hex Head (3/8-16 x 1-1/2")
	320-1699-02	1	Frame Size CM2000	18	098-5854-06	1	* Label, Marker (10 Characters Per Card) Marked "L"
			With 24 Volt Shunt Trip	19	098-5854-10	1	* Label, Marker (10 Characters Per Card) Marked "0"
	320-1699-04	1	Frame Size CM1600	20			Washer, Lock – Spring (M10)
	320-1699-06	1	Frame Size CM2000		850-2010	10	Sets With Frame Size CM1600 3 Pole Circuit Breakers
			With Auxiliary Contacts, Bell Alarm and 24 Volt Shunt Trip		850-2010	13	Sets With Frame Size CM1600 4 Pole Circuit Breakers
	320-1699-08	1	Frame Size CM1600	21	870-0504	26	Nut, Self-Retaining (M6)
	320-1699-10	1	Frame Size CM2000	22	319-3252-02	1	Brace, Cover
			Four Pole Breakers	23			Lug, Solderless
			Standard		332-3303-01	3	Sets With 3 Pole Circuit Breakers
	320-1699-21	1	Frame Size CM1600		332-3303-01	4	Sets With 4 Pole Circuit Breakers
	320-1699-23	1	Frame Size CM2000	24	821-6003-02	6	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)
			With 24 Volt Shunt Trip	25			Screw, Self-Locking – Hex Washer Head (M6 x 16mm)
	320-1699-25	1	Frame Size CM1600		821-6002-03	89	Sets With 3 Pole Circuit Breakers
	320-1699-27	1	Frame Size CM2000		821-6002-03	81	Sets With 4 Pole Circuit Breakers
			With Auxiliary Contacts, Bell Alarm and 24 Volt Shunt Trip	26			Stripping, Weather – Bulk (Order By The Foot)
	320-1699-29	1	Frame Size CM1600		895-0182	–	Sets With 3 Pole Circuit Breakers (4 Feet Required)
	320-1699-31	1	Frame Size CM2000		895-0182	–	Sets With 4 Pole Circuit Breakers (6 Feet Required)
3	098-2304	1	Label, Warning	27			Brace, Cover (Vertical)
4			Screw, Cap – Hex Head (M10 x 40mm)		319-3286	2	Sets With 3 Pole Circuit Breakers
	800-2089	9	Sets With CM1600 3 Pole Circuit Breakers		319-3286	1	Sets With 4 Pole Circuit Breakers
	800-2089	12	Sets With CM1600 4 Pole Circuit Breakers	28	319-3288	2	Brace, Cover (Horizontal)
5	319-3153	1	Bracket, Mounting	* – Parts Included In 300-4480-01 Neutral Bar Assembly			
6			Cover, Circuit Breaker				
	319-3266-01	1	Sets With 3 Pole Circuit Breakers				
	319-3266-02	1	Sets With 4 Pole Circuit Breakers				
7	319-1925	1	Panel – Bottom				
8	319-1961	1	Panel – Top				
9	319-3253-02	1	Brace, Mounting – Circuit Breaker				
10	300-4480-01	1	Bar Assembly, Neutral (Includes Neutral Bars, Labels and Parts Marked *) (Used With 3 Pole Circuit Breakers)				
11	332-3303-01	1	* Lug, Solderless				
12	332-2744-07	4	* Standoff, Insulator				

Continued...

**Circuit Breaker
IEC Conformity
DFLB Begin Spec N
DFLC, DFMB Begin Spec P**

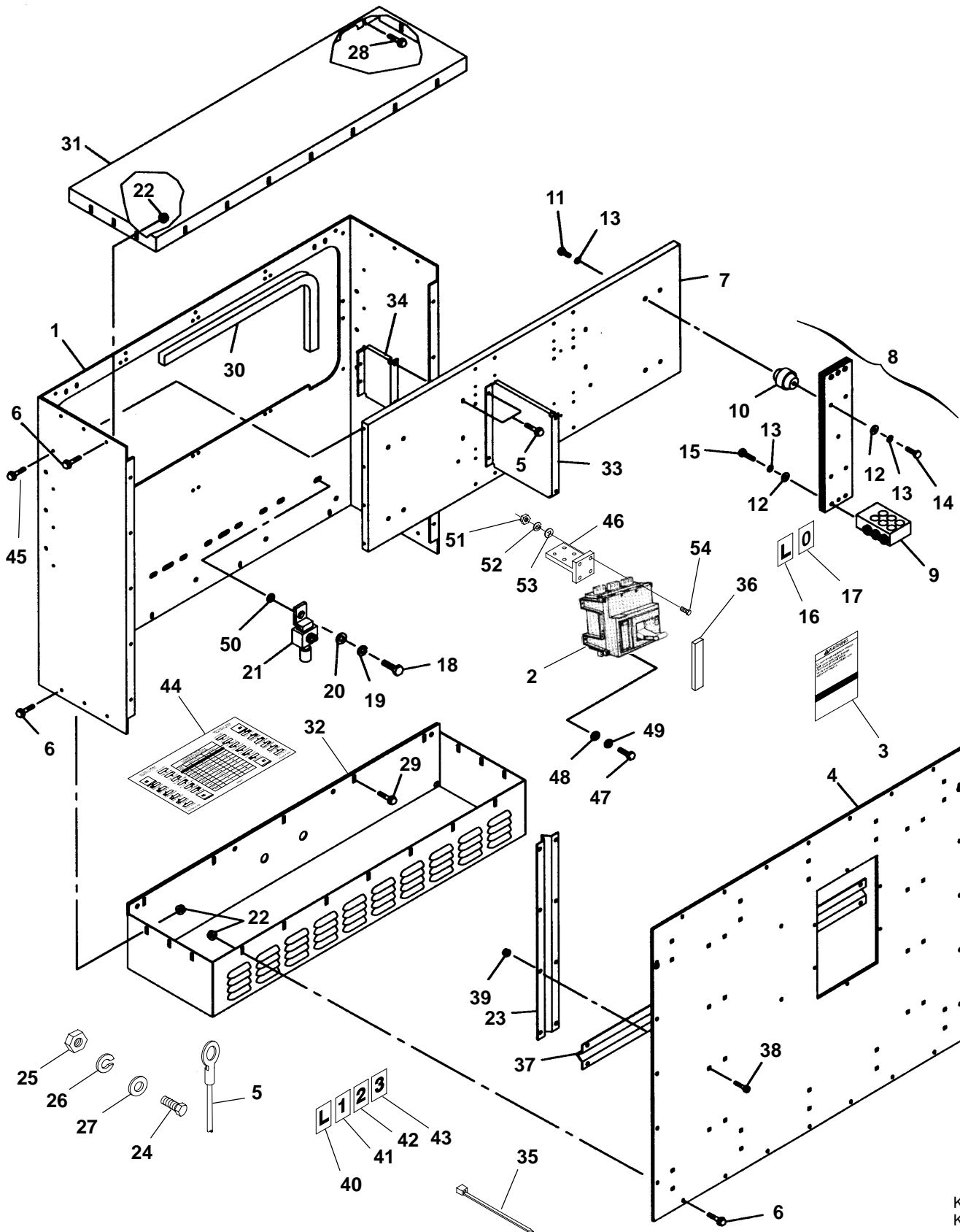


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**Circuit Breaker
IEC Conformity
DFLB Begin Spec N
DFLC, DFMB Begin Spec P**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
29			Bar, Bus (T-Bar) (Includes Mounting Hardware)				The following four hardware items are used to fasten the load leads to the generator. Quantity used as required.
	337-2789	4	Sets With Frame Size CM1600 Circuit Breakers				
	337-2789	1	Sets With Frame Size CM2000 Circuit Breakers	40	800-2116	1	
				41	860-2010	1	
30	821-2035	5	Screw, Self-Locking – Hex Washer Head (M6 x 25mm)	42	850-2012	1	Nut, Hex (M12)
31	332-2001	1	Lug, Solderless	43	526-2140	1	Washer, Lock – Spring (M12)
32	856-0010	1	Washer, Lock – EIT (3/8")	44			Washer, Flat (M12)
33	526-2120	1	Washer, Flat (M10)				Label, Marker (10 Characters Per Card) (Quantity Used As Required)
34	850-2010	1	Washer, Lock – Spring (M10)				Marked "L"
			Sets With Frame Size CM2000 Circuit Breakers		098-5854-06	3	Sets With 3 Pole Circuit Breakers
35	800-2086	1	Screw, Cap – Hex Head (M10 x 25mm)		098-5854-06	4	Sets With 4 Pole Circuit Breakers
36	800-2063	4	Screw, Cap – Hex Head (M8 x 50mm)		098-5854-07	1	Marked "1"
37	226-4498-03	1	Lead – Circuit Breaker (Quantity Used As Required) 30" (Without Markings) (#1/0 Wire)		098-5854-08	1	Marked "2"
					098-5854-09	1	Marked "3"
					098-5854-10	1	Marked "0" (Sets With 4 Pole Circuit Breakers)
38	508-1109	–	Edging – Bulk (Order By The Foot – 3 Feet Required)	45	098-6865	1	Label, Conduit Locations
39	332-1389	1	Tie, Wire (Quantity Used As Required)	46	850-2008	4	Washer, Lock – Spring (M8)
				47	526-2100	4	Washer, Flat (M8)

Disconnect Switch
Molded Case – UL Listed
DFLB Spec L Through M
DFLC, DFMB Spec L Through N



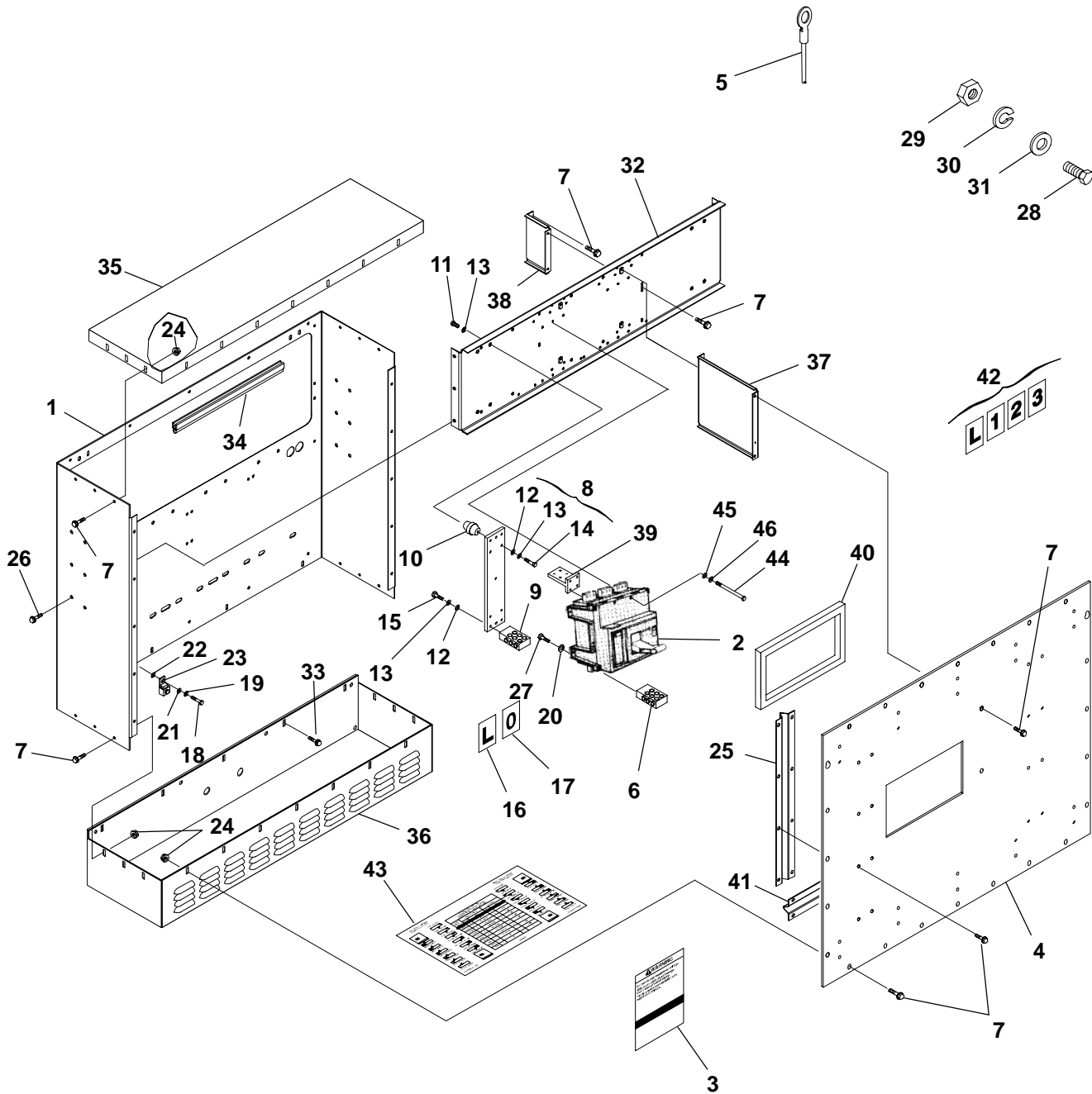
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**Disconnect Switch
Molded Case – UL Listed
DFLB Spec L Through M
DFLC, DFMB Spec L Through N**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1957	1	Box, Disconnect Switch	26	850-0060	1	Washer, Lock – Spring (1/2")
2			Switch, Disconnect – 3 Pole (Includes Lugs for 1000, 1200 Amp Switches) (CB21)	27	526-0219	1	Washer, Flat (1/2")
	320-1907-01	1	1600 Amp	28	821-0018	5	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")
	320-1907-02	1	2000 Amp	29	821-0011	5	Screw, Self-Locking – Hex Washer Head (1/4-20 x 7/8")
3	098-2304	1	Label, Warning	30	508-1092	–	Edging – Bulk (Order By The Foot – 3 Feet Required)
4	319-1957	1	Box, Disconnect Switch	31	319-1961	1	Panel – Top
5	226-4498-03	1	Lead – Disconnect Switch – 1/2" Ring Terminal End to 1/2" Ring Terminal End (30") (Without Markings) (#1/0 Wire) (Quantity Used As Required)	32	319-1961	1	Panel – Top
				33	319-1926-02	1	Brace, Cover
				34	319-2316-02	1	Brace, Mounting Bracket – Disconnect Switch
6	821-0010	44	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	35	332-1389	1	Tie, Cable (Quantity Used As Required)
7	319-1962	1	Bracket, Mounting – Disconnect Switch	36	895-0182	–	Stripping, Weather – Bulk (Order By The Foot – 4 Feet Required)
8	300-4480-01	1	Bar Assembly, Neutral (Includes Neutral Bars and Parts Marked *)	37	319-2399	2	Brace, Cover (Horizontal)
9	332-3303-01	1	* Lug, Solderless	38	816-0098	36	Bolt, Carriage (5/16-18 x 5/8")
10	332-2744-07	4	* Standoff, Insulator	39	870-0257	36	Nut, Locking (5/16-18)
11	800-0048	4	* Screw, Cap – Hex Head (3/8-16 x 3/4")	40	098-5854-06	3	Label, Marker (10 Characters Per Card) Marked "L"
12	526-2120	7	* Washer, Flat (M10)	41	098-5854-07	1	Label, Marker (10 Characters Per Card) Marked "1"
13	850-2010	11	* Washer, Lock – Spring (M10)	42	098-5854-08	1	Label, Marker (10 Characters Per Card) Marked "2"
14	800-0052	4	* Screw, Cap – Hex Head (3/8-16 x 1-1/2")	43	098-5854-09	1	Label, Marker (10 Characters Per Card) Marked "3"
15	800-2089	3	* Screw, Cap – Hex Head (M10 x 40mm)	44	098-6865	1	Label, Conduit Locations
16	098-5854-06	1	* Label, Marker (10 Characters Per Card) Marked "L"	45	821-0030	6	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")
17	098-5854-10	1	* Label, Marker (10 Characters Per Card) Marked "0"	46			Bar, Bus (T-Bar) (Includes Mounting Hardware)
18	800-0050	1	Screw, Cap – Hex Head (3/8-16 x 1")		337-2789	4	Sets With 1600 Amp Switches
19	850-0050	1	Washer, Lock – Spring (3/8")		337-2789	1	Sets With 2000 Amp Switches
20	526-0029	2	Washer, Flat (3/8")	47	800-0033	4	Screw, Cap – Hex Head (5/16-18 x 2")
21	332-2001	1	Lug, Solderless	48	526-0115	4	Washer, Flat (5/16")
22	870-0494	26	Nut, Self-Retaining – Floating (1/4-20)	49	850-0045	4	Washer, Lock – Spring (5/16")
23	319-2398	2	Brace, Cover (Vertical)	50	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.	51	862-0003	12	Nut, Hex (3/8")
24	800-0094	1	Screw, Cap – Hex Head (1/2-13 x 2")	52	850-0050	25	Washer, Lock – Spring (3/8")
25	862-0005	1	Nut, Hex (1/2-13)	53	526-0029	36	Washer, Flat (3/8")
				54	800-0054	13	Screw, Cap – Hex Head (3/8-16 x 2")

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

**Disconnect Switch
Molded Case
UL Listed
DFLB Begin Spec N
DFLC, DFMB Begin Spec P**

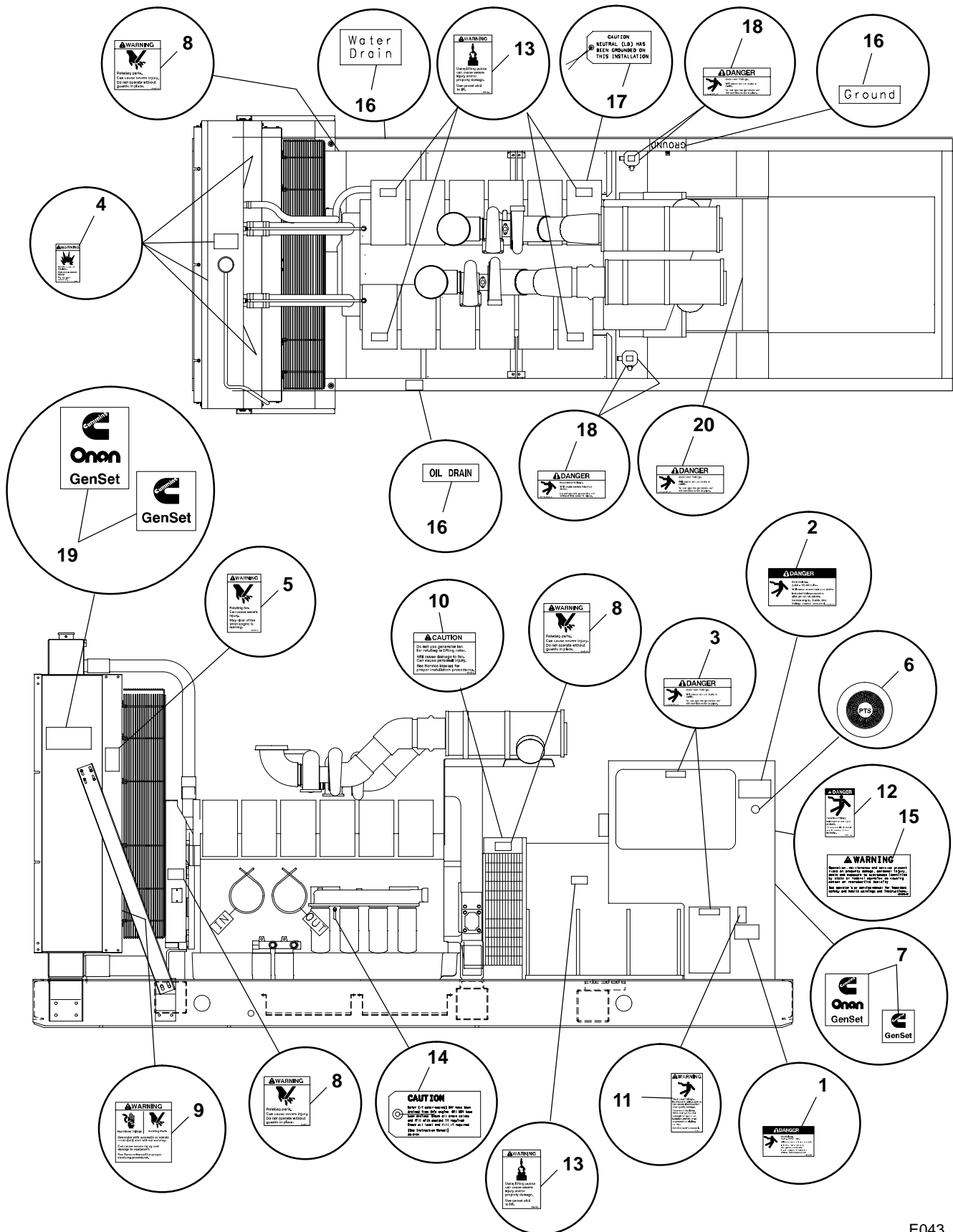


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**Disconnect Switch
Molded Case
UL Listed
DFLB Begin Spec N
DFLC, DFMB Begin Spec P**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3184	1	Box, Disconnect Switch				The following four hardware items are used to fasten the load leads to the generator and neutral bar. Quantity used as required.
2			Switch, Disconnect – 3 Pole (Includes Mounting Screws) (CB21)				
	320-1907-01	1	1600 Amp				
	320-1907-02	1	2000 Amp				
3	098-2304	1	Label, Warning	28	800-2116	1	Screw, Cap – Hex Head (M12 x 50mm)
4	319-3266-01	1	Cover, Disconnect Switch	29	860-2010	1	Nut, Hex (M12)
5	226-4498-03	1	Lead – Disconnect Switch (Quantity Used As Required) 30" (Without Markings) (#1/0 Wire)	30	850-2012	1	Washer, Lock – Spring (M12)
				31	526-2140	1	Washer, Flat (M12)
6	332-3303-01	3	Lug, Solderless	32	319-3153	1	Bracket, Mounting
7	821-6002-03	89	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	33	821-2035	5	Screw, Self-Locking – Hex Washer Head (M6 x 25mm)
8	300-4480-01	1	Bar Assembly, Neutral (Includes Neutral Bars, Labels and Parts Marked *)	34	508-1109	–	Edging – Bulk (Order By The Foot – 3 Feet Required)
9	332-3303-01	1	* Lug, Solderless	35	319-1961	1	Panel – Top
10	332-2744-07	4	* Standoff, Insulator	36	319-1925	1	Panel – Bottom
11	800-0048	4	* Screw, Cap – Hex Head (3/8-16 x 3/4")	37	319-3252-02	1	Brace, Cover
12	526-2120	7	* Washer, Flat (M10)	38	319-3253-02	1	Brace, Mounting – Disconnect Switch
13	850-2010	11	* Washer, Lock – Spring (M10)	39			Bar, Bus (T-Bar) (Includes Mounting Hardware)
14	800-0052	4	* Screw, Cap – Hex Head (3/8-16 x 1-1/2")		337-2789	4	Sets With 1600 Amp Disconnect Switches
15	800-2089	3	* Screw, Cap – Hex Head (M10 x 40mm)		337-2789	1	Sets With 2000 Amp Disconnect Switches
16	098-5854-06	1	* Label, Marker (10 Characters Per Card) Marked "L"	40	895-0182	–	Stripping, Weather – Bulk (Order By The Foot – 4 Feet Required)
17	098-5854-10	1	* Label, Marker (10 Characters Per Card) Marked "0"	41	319-3288	2	Brace, Cover (Horizontal)
18	800-2086	1	Screw, Cap – Hex Head (M10 x 25mm)	42			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
19	850-2010	1	Washer, Lock – Spring (M10)		098-5854-06	3	Marked "L"
20	850-2010	9	Washer, Lock – Spring (M10) 1600 Amp Switches		098-5854-07	1	Marked "1"
21	526-2120	1	Washer, Flat (M10)		098-5854-08	1	Marked "2"
22	856-0010	1	Washer, Lock – EIT (3/8")		098-5854-09	1	Marked "3"
23	332-2001	1	Lug, Solderless	43	098-6865	1	Label, Conduit Locations
24	870-0504	26	Nut, Self-Retaining (M6)	44	800-2063	4	Screw, Cap – Hex Head (M8 x 50mm)
25	319-3286	2	Brace, Cover (Vertical)	45	526-2100	4	Washer, Flat (M8)
26	821-6003-02	6	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)	46	850-2008	4	Washer, Lock – Spring (M8)
27	800-2089	9	Screw, Cap – Hex Head (M10 x 40mm) 1600 Amp Disconnect Switches				

Labels and Tags Models With Radiator

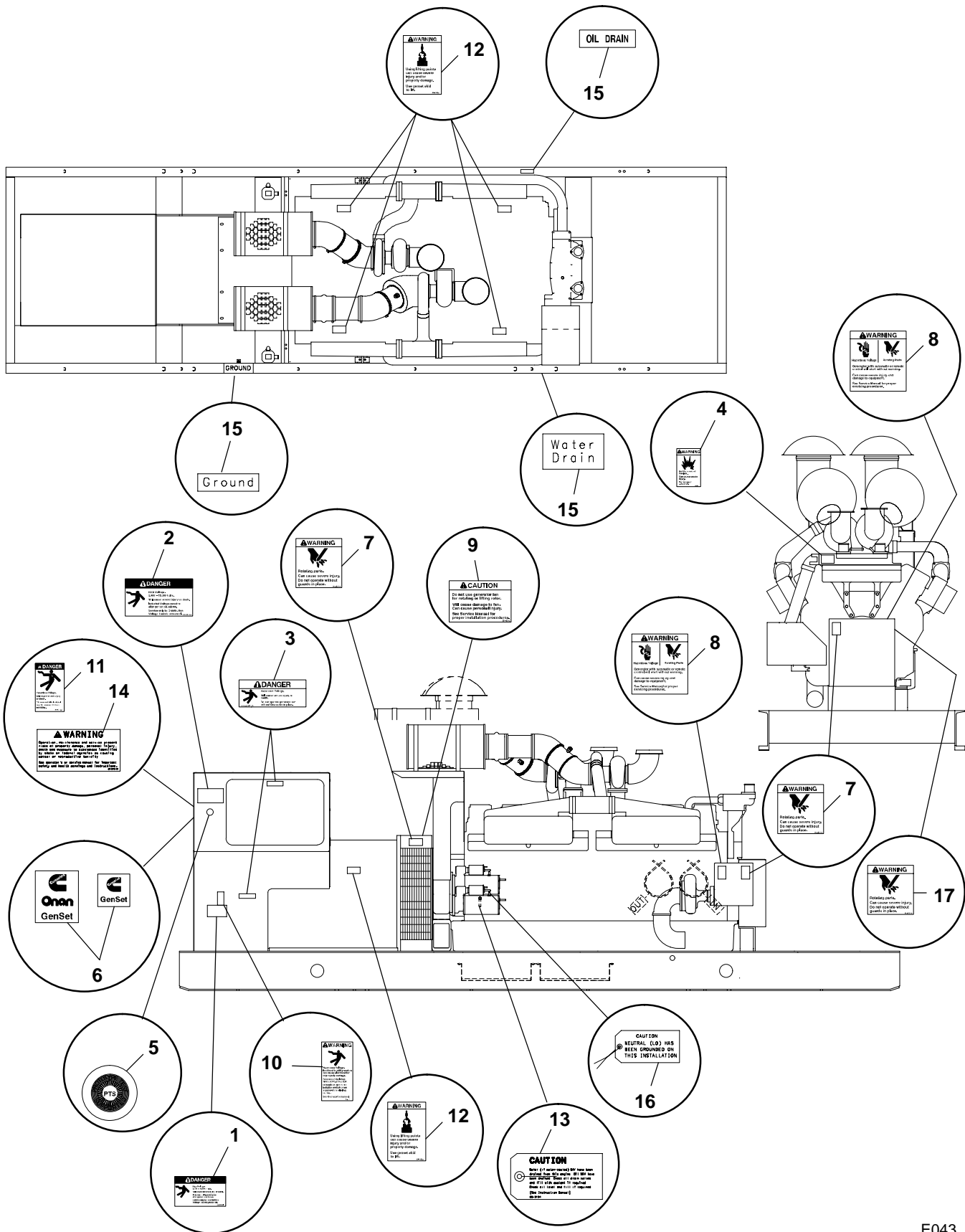


E043

Labels and Tags Models With Radiator

1	098-6650-01	2	Label, Danger – High Voltage	12	098-5387	1	Label, Danger – Hazardous
2	098-6650-02	2	Label, Danger – High Voltage				Voltage From Electrical
3	098-5347	4	Label, Danger – Hazardous	13	098-5822	6	Sources – Spec K Through L
			Voltage				Label, Warning – Lifting
4	098-4730	4	Label, Warning – Hot	14	098-2124	1	Points
			Pressurized Coolant				Tag, Warning – Water and Oil
5	098-5393	2	Label, Warning – Rotating	15	098-6074-02	1	Levels
			Fan	16			Label, Warning
6	098-4500	2	Label, Prototype Test		098-1837-01	1	Label
			Supported				Spec K Through L –
7			Label, Model		098-6775	1	Oil Drain
	098-6111-08	1	Cummins Genset (KT Series)				Begin Spec M – Ground,
			6" – Spec K				Oil Drain, and Water
	098-6139-04	1	Cummins Onan Genset	17	098-6460	1	Drain
			(International) 5"	18	098-5347	4	Tag, Caution – Battery
8	098-4798	5	Label, Warning – Rotating				Label, Danger – Hazardous
			Parts	19			Voltage – Spec K
9	098-4732	2	Label, Warning – Automatic		098-6111-06	2	Label, Model
			or Remote Control				Cummins Genset
10	098-5842	1	Label, Caution – Generator		098-6139-07	2	(KT Series) 11" – Spec K
			Fan				Cummins Onan Genset
11	098-5759	2	Label, Warning – Hazardous				(International) – 10"
			Voltage Backfeed	20	098-5347	1	Label, Danger – Hazardous
							Voltage – Begin Spec M

Labels and Tags Models With Remote Radiator

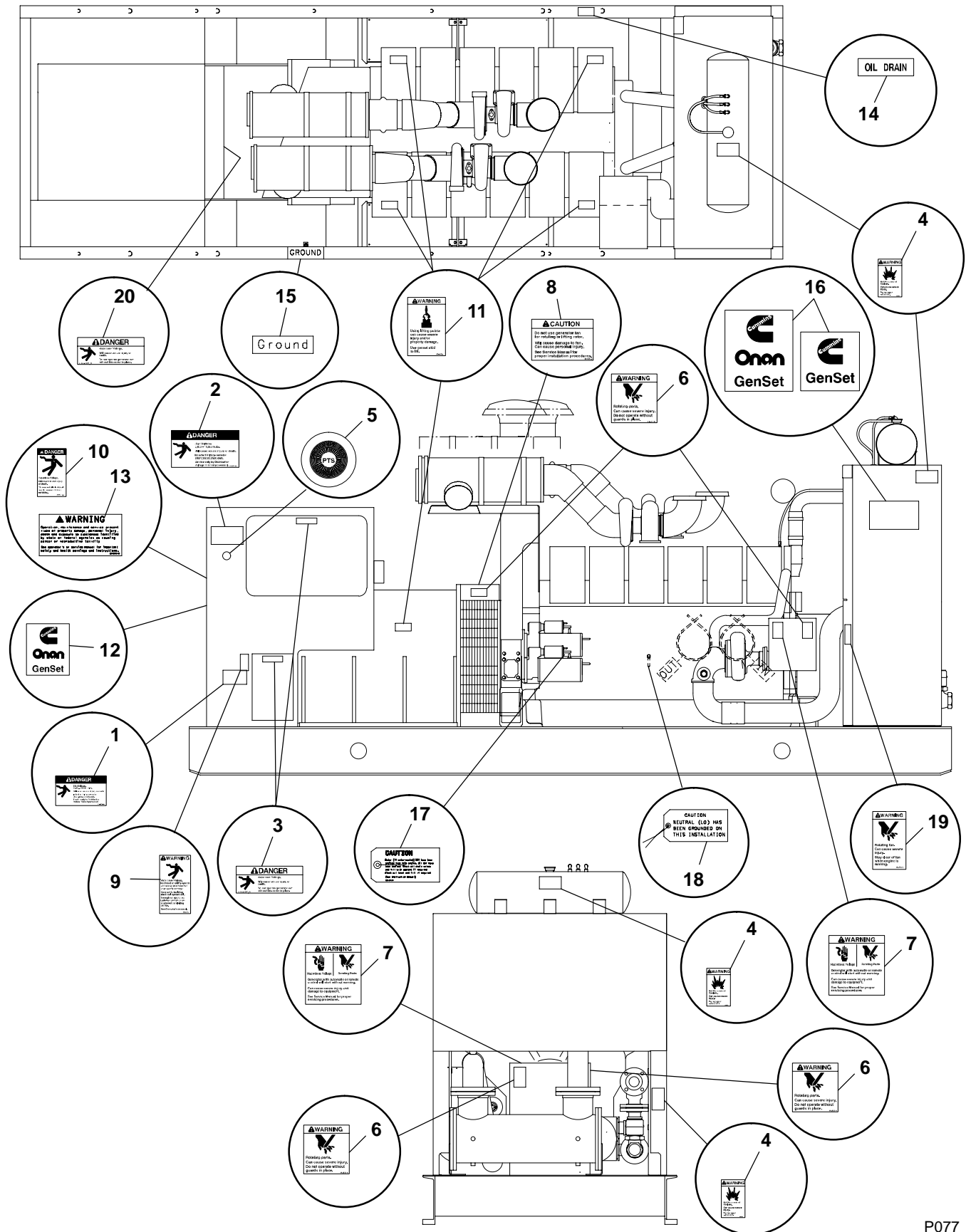


E043

Labels and Tags Models With Remote Radiator

1	098-6650-01	2	Label, Danger – High Voltage	9	098-5842	1	Label, Caution – Generator Fan
2	098-6650-02	2	Label, Danger – High Voltage				
3	098-5347	5	Label, Danger – Hazardous Voltage	10	098-5759	2	Label, Warning – Hazardous Voltage Backfeed
4	098-4730	1	Label, Warning – Hot Pressurized Coolant	11	098-5387	1	Label, Danger – Hazardous Voltage From Electrical Sources – Spec K Through L
5	098-4500	2	Label, Prototype Test Supported	12	098-5822	6	Label, Warning – Lifting Points
6			Label, Model				
	098-6111-08	1	Cummins Genset (KT Series) 6" – Spec K Through L	13	098-2124	1	Tag, Warning – Water and Oil Levels
			Cummins Onan Genset (International)	14	098-6074-02	1	Label, Warning
	098-6139-04	1	5" – Models with Remote Radiator	15	098-1837-01	1	Label, Oil Drain
					098-6775	1	Spec K Through L
7	098-4798	4	Label, Warning – Rotating Parts				Begin Spec M
				16	098-6460	1	Tag, Caution – Battery
8	098-4732	2	Label, Warning – Automatic or Remote Control	17	098-4798	1	Label, Warning – Rotating Parts – Begin Spec L

Labels and Tags Models With Heat Exchanger



P077

Labels and Tags Models With Heat Exchanger

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-6650-01	2	Label, Danger – High Voltage	12			Label, Model
2	098-6650-02	2	Label, Danger – High Voltage		098-6111-08	1	Cummins Genset
3	098-5347	4	Label, Danger – Hazardous Voltage		098-6139-04	1	(KT Series) – Spec K Cummins Onan Genset (International)
4			Label, Warning – Hot Pressurized Coolant	13	098-6074-02	1	Label, Warning
	098-4730	5	Spec K Through L	14	098-1837-01	1	Label, Oil Drain
	098-4730	4	Begin Spec M	15	098-6775	1	Label, Ground, Oil Drain, Water Drain – Begin Spec M
5	098-4500	2	Label, Prototype Test Supported	16			Label, Model
6	098-4798	5	Label, Warning – Rotating Parts		098-6111-06	2	Cummins Genset 11" (KT Series) – Spec K Cummins Onan Genset
7	098-4732	2	Label, Warning – Automatic or Remote Control		098-6139-07	2	10" (International)
8	098-5842	1	Label, Caution – Generator Fan	17	098-6460	1	Tag, Caution – Battery
9	098-5759	2	Label, Warning – Hazardous Voltage Backfeed	18	098-2124	1	Tag, Warning – Water and Oil Levels
10	098-5387	1	Label, Danger – Hazardous Voltage From Electrical Sources – Spec K Through L	19	098-5393	2	Label, Warning – Rotating Fan – Begin Spec M
11	098-5822	6	Label, Warning – Lifting Points	20	098-5347	1	Label, Danger – Hazardous Voltage – Begin Spec M

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