



# Parts Manual

## Generator Set

with PowerCommand<sup>®</sup> 3201 Controller

DQKB (Spec G)

DQKC (Spec G)

DQKD (Spec A)

DQKH (Spec A–E)

## MODEL IDENTIFICATION

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

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

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION  
AND DATE (IF APPLICABLE)

## SAFETY PRECAUTIONS

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



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



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



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

## PRODUCT SAFETY PRECAUTIONS



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



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



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



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

## Introduction

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

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

Cummins Power Generation Generator Model	Cummins Engine Model
DQKB, DQKC (50 Hertz)	QSK60-G3
DQKB, DQKC (60 Hertz)	QSK60-G6
DQKD (50 Hertz)	QSK60-G4
DQKH (50 Hertz)	QSK60-G8
DQKH (60 Hertz)	OSK60-G9

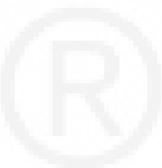
## Generator Set Data Table

Model and Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
1500DQKB/*	1,500,000	#	50	4L, 6L	3	24VDC
1650DQKC/*	1,650,000	#	50	4L, 6L	3	24VDC
1750DQKB/*	1,750,000	#	60	4L, 6L	3	24VDC
2000DQKC/*	2,000,000	#	60	4L, 6L	3	24VDC
1800DQKD/*	1,800,000	#	50	4L, 6L	3	24VDC
2000DQKH/*	2,000,000	#	50	4L, 6L	3	24VDC
2250DQKH/*	2,250,000	#	60	4L, 6L	3	24VDC

\* - The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letter. The specification number denotes customer requested options or deviations from the standard model. The specification letter advances (A to B, B to C, etc.) with major manufacturing changes.

# - 380-13,800V (Refer to Genset Data Sheet).

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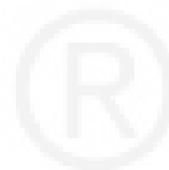
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## Abbreviations

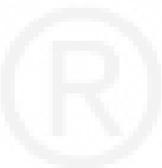
Some of the following abbreviations may be used throughout this Parts Catalog:

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

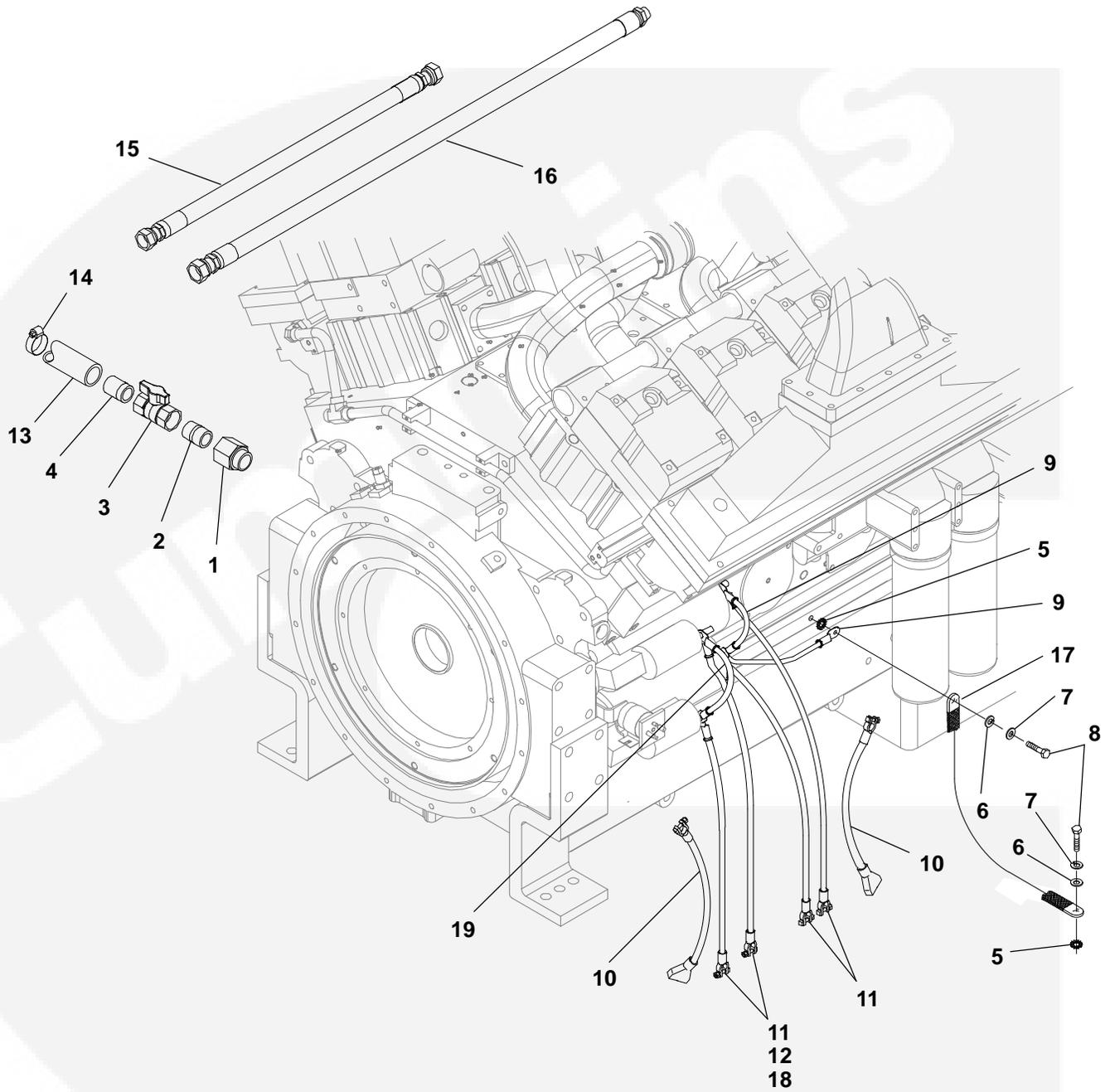
## Paint and Thread Sealant

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

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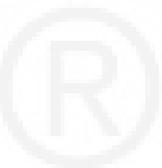
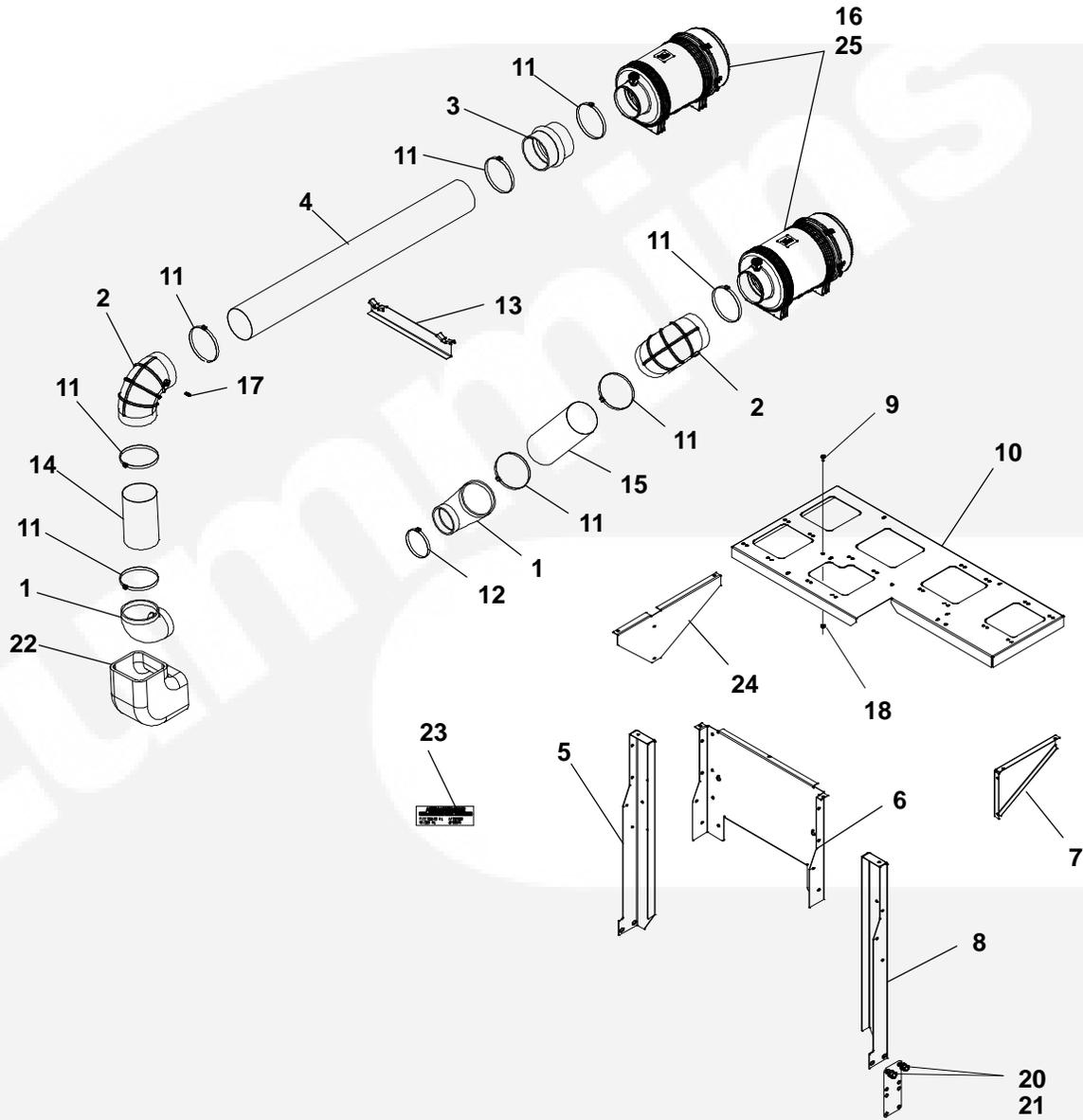
# Engine Accessories



## Engine Accessories

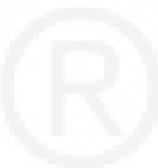
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DE- SCRIPTION
	541-1416	1	* Kit Heater, Relay	10	416-1096	2	Cable, Jumper
1	505-1508	1	Adapter (3/4" Female to M27 Male) (Includes "O" Ring)	11	416-0639	4	Cable, Battery
				12	416-1019	2	Boot, Battery (Red)
2	505-0102	1	Nipple, Pipe - Close (3/4")	13	503-0249	-	Hose, Oil Drain - Bulk (3/4" ID) (Order By The Foot - 3 Feet Required)
3	504-0171	1	Valve, Shutoff (3/4")				
4	505-0324	1	Nipple, Pipe - Half (3/4" x 2")	14	503-0189	1	Clamp, Hose
				15	501-0708	1	Line, Fuel - Flexible (Fuel In)
5	856-0013	2	Washer, Lock - EIT (1/2")	16			Line, Fuel - Flexible (Fuel Out)
6	526-2140	2	Washer, Flat (M12)				
7	850-2012	2	Washer, Lock - Spring (M12)		501-0697-04	1	Radiator Cooled
					501-0697-05	1	Remote Radiator
8	800-2111	2	Screw, Cap - Hex Head (M12 x 25mm)	17	337-0090-01	1	Strap, Ground (27")
				18	416-1084-01	2	Boot, Starter (Red)
9	416-0680	2	Cable, Starter	19	416-0632	1	Cable, Starter

**Air Cleaner**  
**DQKB, DQKC, DQKD, DQKH – 50 Hz**  
**DQKB, DQKC – 60 Hz**

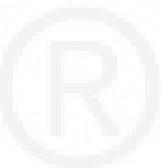
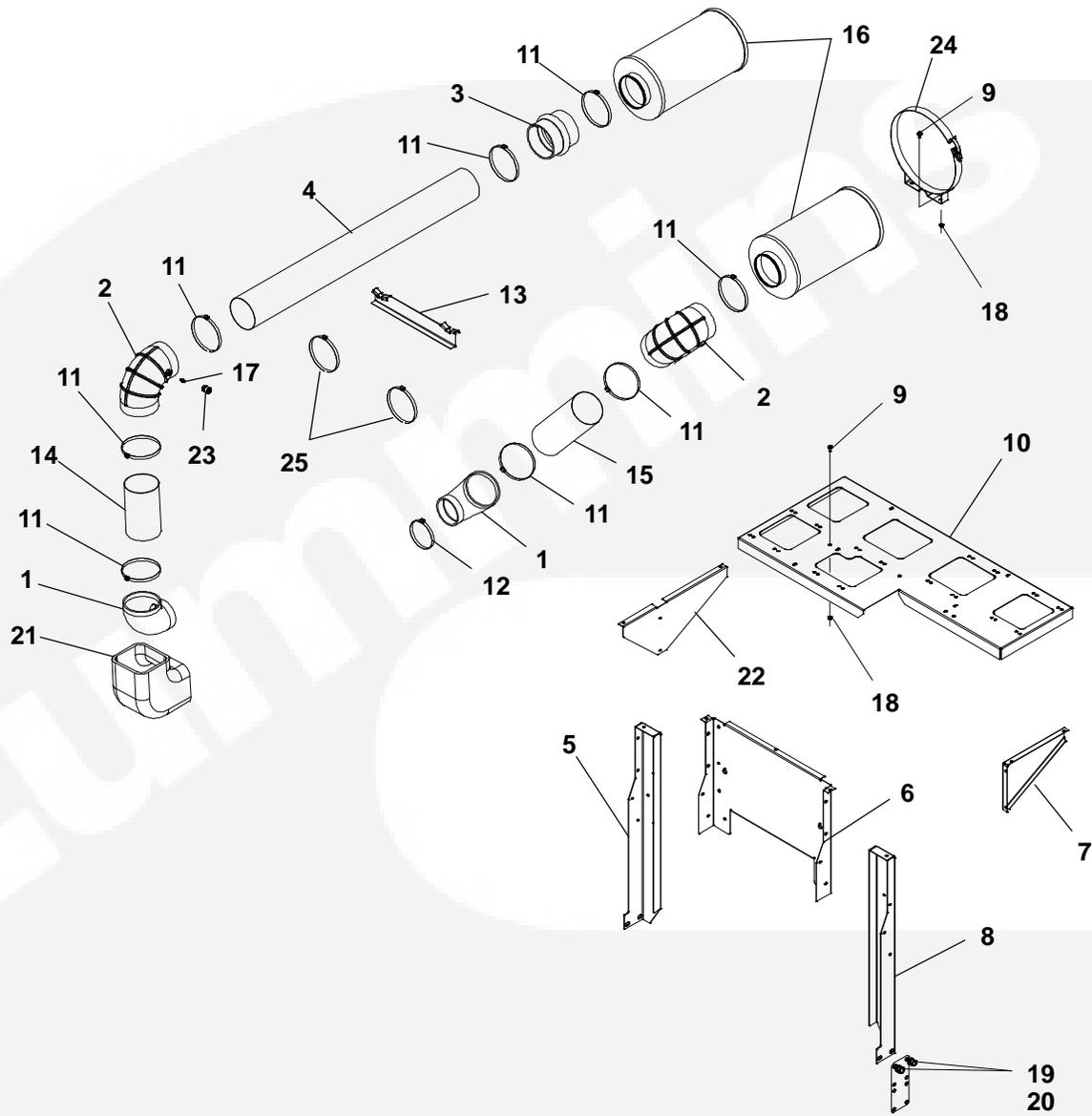


**Air Cleaner**  
**DQKB, DQKC, DQKD, DQKH – 50 Hz**  
**DQKB, DQKC – 60 Hz**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-2102	4	Elbow, Reducer – 90° (7 x 5.5)	14	140-3516-02	2	Tube, Air Cleaner
2	503-0970-01	4	Elbow	15	140-3515-02	2	Tube, Air Cleaner
3	503-1705	2	Hose (7")	16	140-3288-02	4	Housing, Air Cleaner – Flame Retardant
4	503-3518-02	2	Tube, Air Cleaner	17	140-1260	4	Fitting, Safety Filter
5	503-3504-02	1	Bracket, Air Cleaner – Vertical Right	18	870-2065-03	3	Nut, Hex – Flange
6	503-3506-02	1	Bracket, Air Cleaner – Plate	19	517-0080	4	Plug, Tapered (Not Illustrated)
7	503-3507-02	1	Bracket, Air Cleaner – Angle	20	800-2201	4	Screw, Cap – Hex Head (M20 x 2.5 x 35)
8	503-3505-02	1	Bracket, Air Cleaner – Vertical Left	21	850-2020	4	Washer, Lock (M20)
9	821-6003-02	41	Screw, Hex Head (M8 x 1.25 x 20)	22	155-4101	2	Shield, Heat
10	140-3508-02	1	Bracket, Air Cleaner – Top	23	098-7954	1	Label, Information
11	503-1870-14	18	Clamp, Hose	24	140-3546-02	1	Bracket, Air Cleaner – Angled
12	503-1870-11	4	Clamp, Hose	25	AF25708M	6	Element, Replacement (Not Illustrated) (Fleetguard Part Number)
13	140-3517-02	1	Bracket, Air Cleaner				

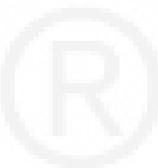


**Air Cleaner  
DQKH - 60 Hz**

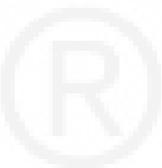
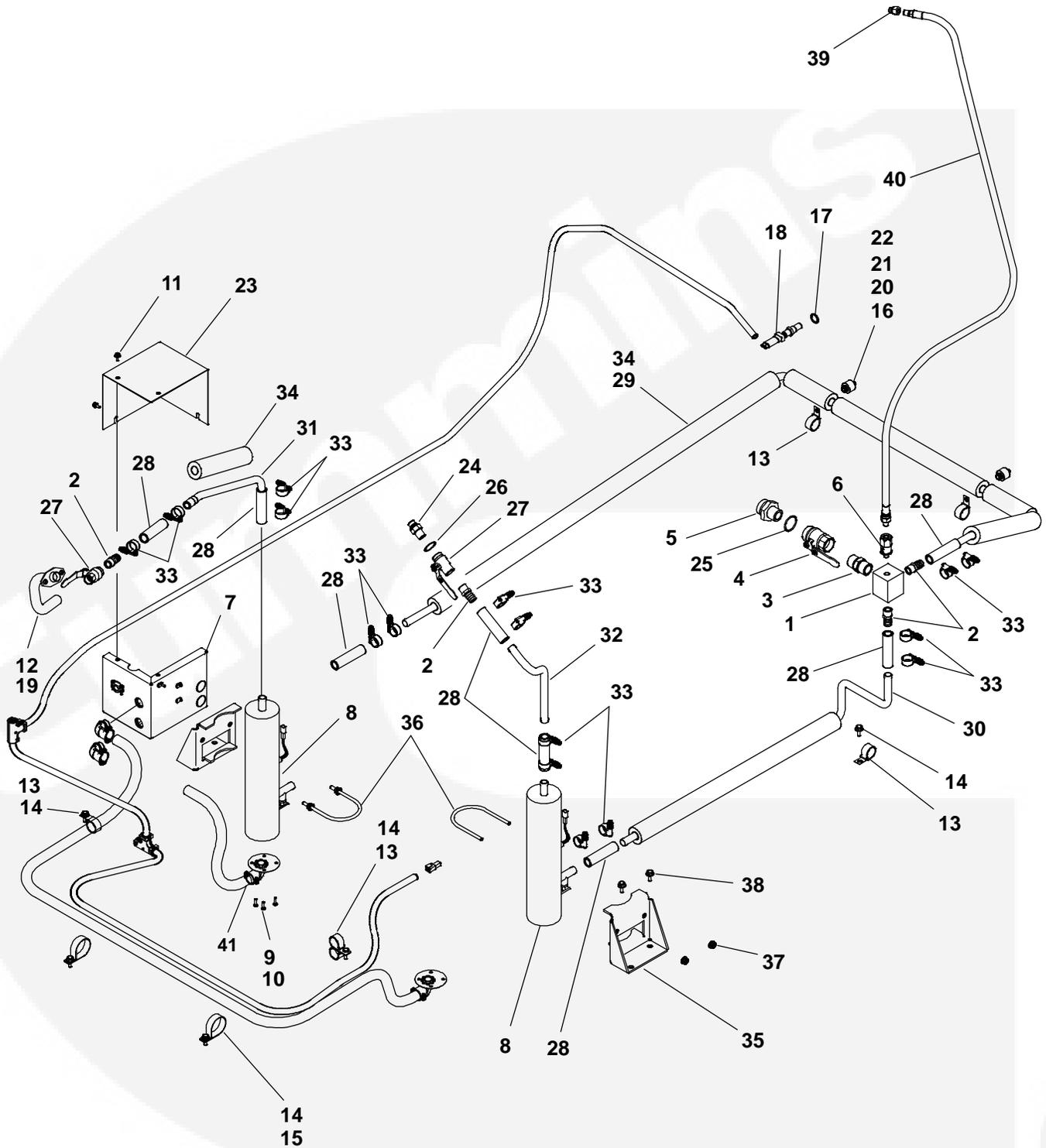


## Air Cleaner DQKH – 60 Hz

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-2102	4	Elbow, Reducer – 90° (7 x 5.5)	13	140-3517-02	1	Bracket, Air Cleaner
2	503-0970-01	4	Elbow	14	140-3516-02	2	Tube, Air Cleaner
3	503-1705	2	Hose (7")	15	140-3515-02	2	Tube, Air Cleaner
4	140-3518-02	2	Tube, Air Cleaner	16	140-2501	4	Cleaner, Air
5	140-3504-02	1	Bracket, Air Cleaner – Vertical Right	17	140-1260	4	Fitting, Safety Filter
6	140-3506-02	1	Bracket, Air Cleaner – Plate	18	870-2065-03	19	Nut, Hex – Flange
7	140-3507-02	1	Bracket, Air Cleaner – Angle	19	800-2201	4	Screw, Cap – Hex Head (M20 x 2.5 x 35)
8	140-3505-02	1	Bracket, Air Cleaner – Vertical Left	20	850-2020	4	Washer, Lock (M20)
9	821-6003-02	41	Screw, Hex Head (M8 x 1.25 x 20)	21	155-4101	2	Shield, Heat
10	140-3508-02	1	Bracket, Air Cleaner – Top	22	140-3546-02	1	Bracket, Air Cleaner – Angled
11	503-1870-14	16	Clamp, Hose	23	140-1548	4	Indicator, Service
12	503-1870-11	4	Clamp, Hose	24	140-2502	8	Strap, Air Cleaner
				25	503-1870-13	2	Clamp, Hose

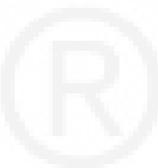


# Engine Coolant Heater

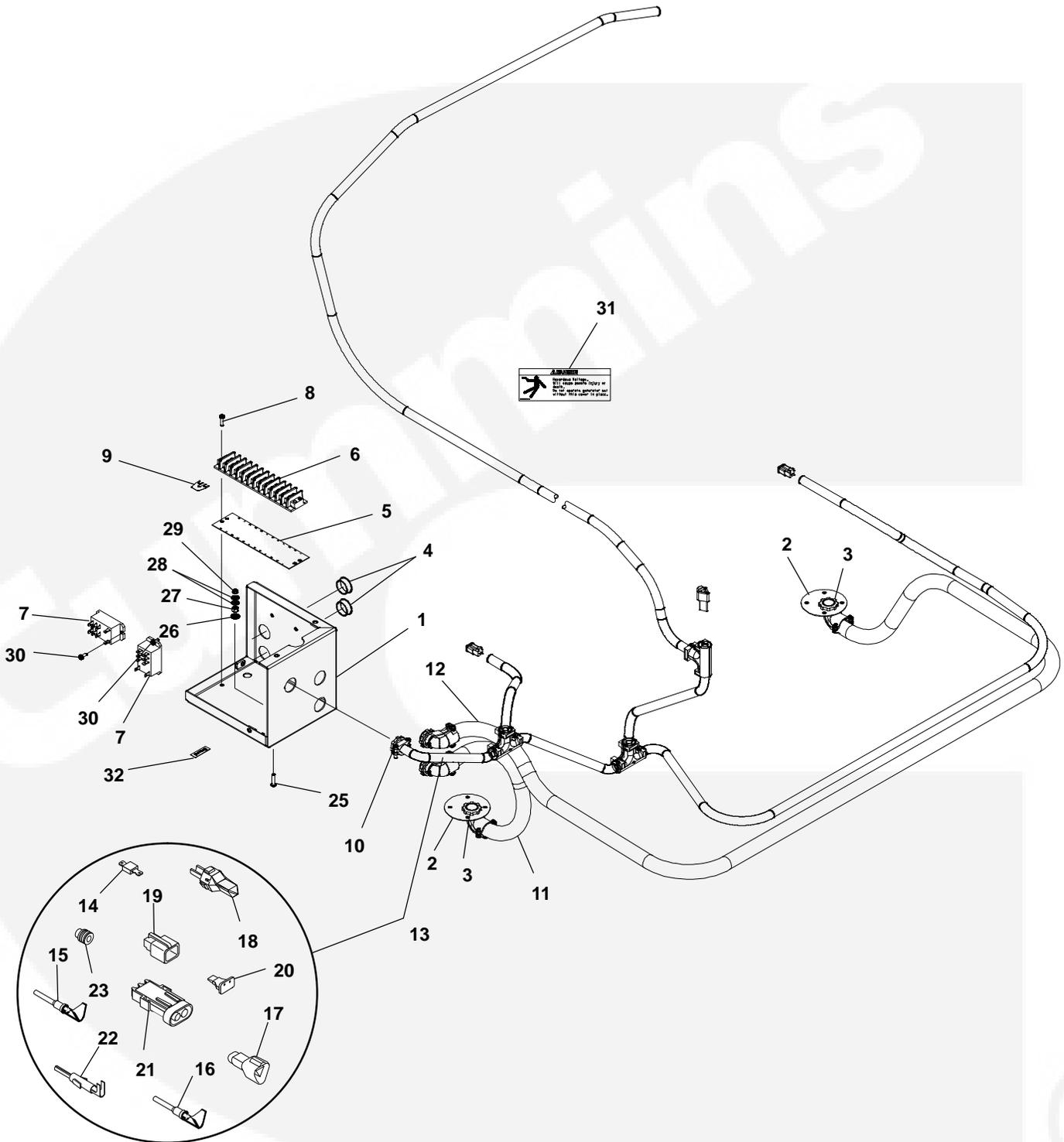


## Engine Coolant Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	133-0226	1	Manifold, Heater	20	526-2100	2	Washer, Flat (M8)
2	502-1704	4	Hose, Barb	21	850-2008	2	Washer, Lock (M8)
3	505-1576-02	1	Nipple, Hex Pipe (1 NPT)	22	800-2060	2	Screw, Hex Head Cap (M8 x 1-1/4" x 35)
4	504-0214	1	Valve, Ball (1 NPT)	23	319-6838	1	Cover, Control
5	505-2113	1	Adapter, Pipe (M42 x 1 NPT)	24	505-2112	1	Adapter, Pipe (M18 x 1/2" NPT)
6	504-0215	1	Valve, Check (1/4" NPT)	25	509-0378	1	Seal, O-Ring (M42)
7		1	Control Assembly, Heater (See Separate Page for Components)	26	509-0379	1	Seal, O-Ring (M18)
8			Heater, Water	27	504-0213	2	Valve, Ball (1/2" NPT)
	333-0677-01	2	4990 Watts	28	503-3062-01	8	Hose, Silicone, Rubber
	333-0677-02	2	6420 Watts	29	130-5770-02	1	Tube, Water Heater
9	815-0539	6	Screw, Cross Recessed (#8-32 x 5/8")	30	130-5771-02	1	Tube, Water Heater
10	870-0131	6	Nut, Hex w/ET (#8-32)	31	130-5772-02	1	Tube, Water Heater
11	526-0128	2	Washer, Flat	32	130-5773-02	1	Tube, Water Heater
12	130-5089-04	1	Tube Assembly, Heater	33	503-2157-02	16	Clamp, Hose
13	332-2634	6	Clamp, "J"	34	128-0108	12'	Insulation, Hose
14	821-6003-02	11	Screw, Hex Head SEMS (M8 x 1-1/4 x 20)	35	A030A089	2	Bracket, Water Heater
15	518-0548-24	2	Clamp, Hose	36	155-3021	2	Clamp, Water Heater
16	130-3660-03	2	Spacer, Shock Absorber	37	870-0550-09	4	Nut, Hex Flange (3/8"-1)
17	509-0408-04	1	Seal, "O"-Ring	38	821-5002-03	4	Screw, Hex Head SEMS (1/4-20 x 1/2")
18	A030X518	1	Thermostat	39	502-1318	1	Adapter, Pipe
19	509-0283-01	1	Seal, Rect. Ring	40	501-0744-05	1	Hose Assembly, Coolant
				41	130-5088	1	Adapter-Heater



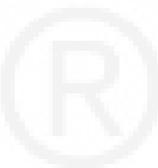
# Coolant Heater Control



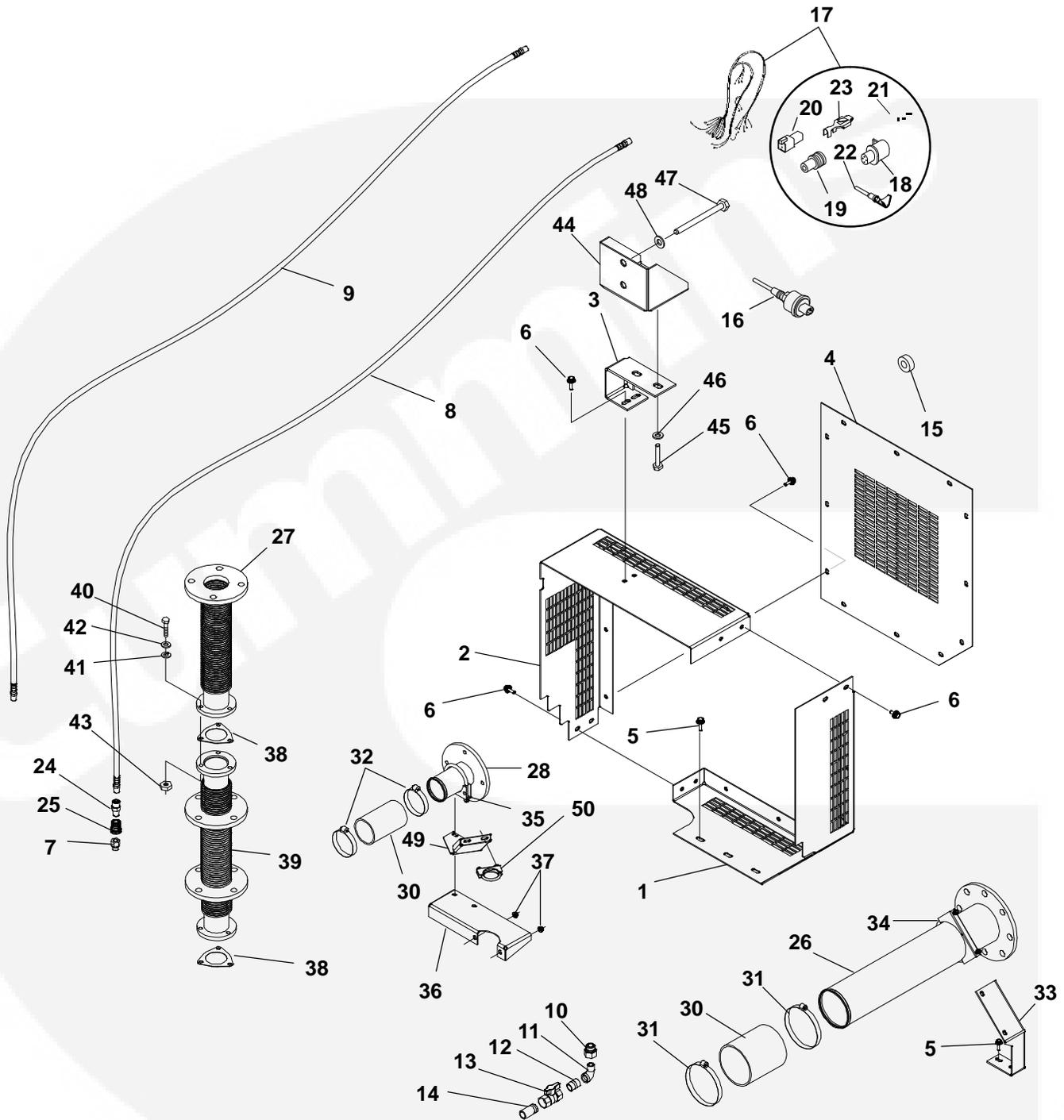
## Coolant Heater Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	319-6370	1	Control Assy	18	323-1494	1	* Connector, Receptacle (3 Pin)
1	319-4787-02	1	Box, Terminal	19	323-1502	1	* Wedge, Receptacle
2	130-4552	2	Cover, Coolant Heater	20	323-1504	2	* Connector, Plug (2 Pin)
3	331-0555	5	Nut, Connector Lock (3/4-14)	21	323-1500	2	* Wedge, Plug
4	517-0138-02	2	Plug, Hole (Fits 1-1/8" Hole)	22	323-1652	1	* Connector, Plug - 2-Way (2 Pin)
5	332-1469	1	Strip, Marker				
6	332-1468	1	Block, Terminal - 12 Place (TB1)	23	323-1718	2	* Pin, Contact
7	307-3089	2	Relay, Power	24	323-1445	2	* Seal, Cable
8	815-0447	2	Screw, Machine - Round Head - Cross Recessed W/IT - (#8-32 x 3/4")	25	815-0203	1	Screw, Machine - Round Head W/ET (#10-32 x 7/8")
9	332-3440	2	Jumper, Terminal	26	856-0003	1	Washer, ET Lock (#10)
10	331-0042	1	Connector, Wiring - DC - Romex (3/4")	27	871-0010	1	Nut, Hex Brass (#10-32)
11	338-4995-03	1	Harness, Wiring - Eng.	28	526-0049	2	Washer, Flat Brass (#10)
12	338-4995-05	1	Harness, Wiring - Eng.	29	870-0131	1	Nut, Hex w/ ET (#10-32)
13	338-4986	1	Harness, Wiring - (Includes Parts Marked *)	30	815-0446	4	Screw, Round Head - Cross Recessed - Thread Cutting - W/IT (#8-32 x .50)
14	357-0030	1	* Rectifier (6 Amp)	31	098-5347-01	1	Label, Danger
15	357-0004	1	* Rectifier (1 Amp)	32	098-2235-02	1	Label, Ground
16	323-1491	3	* Pin, Contact				
17	323-1492	4	* Socket, Contact				

\* - Parts Included In 338-4986 Wiring Harness



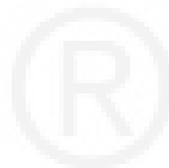
# Remote Radiator



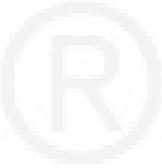
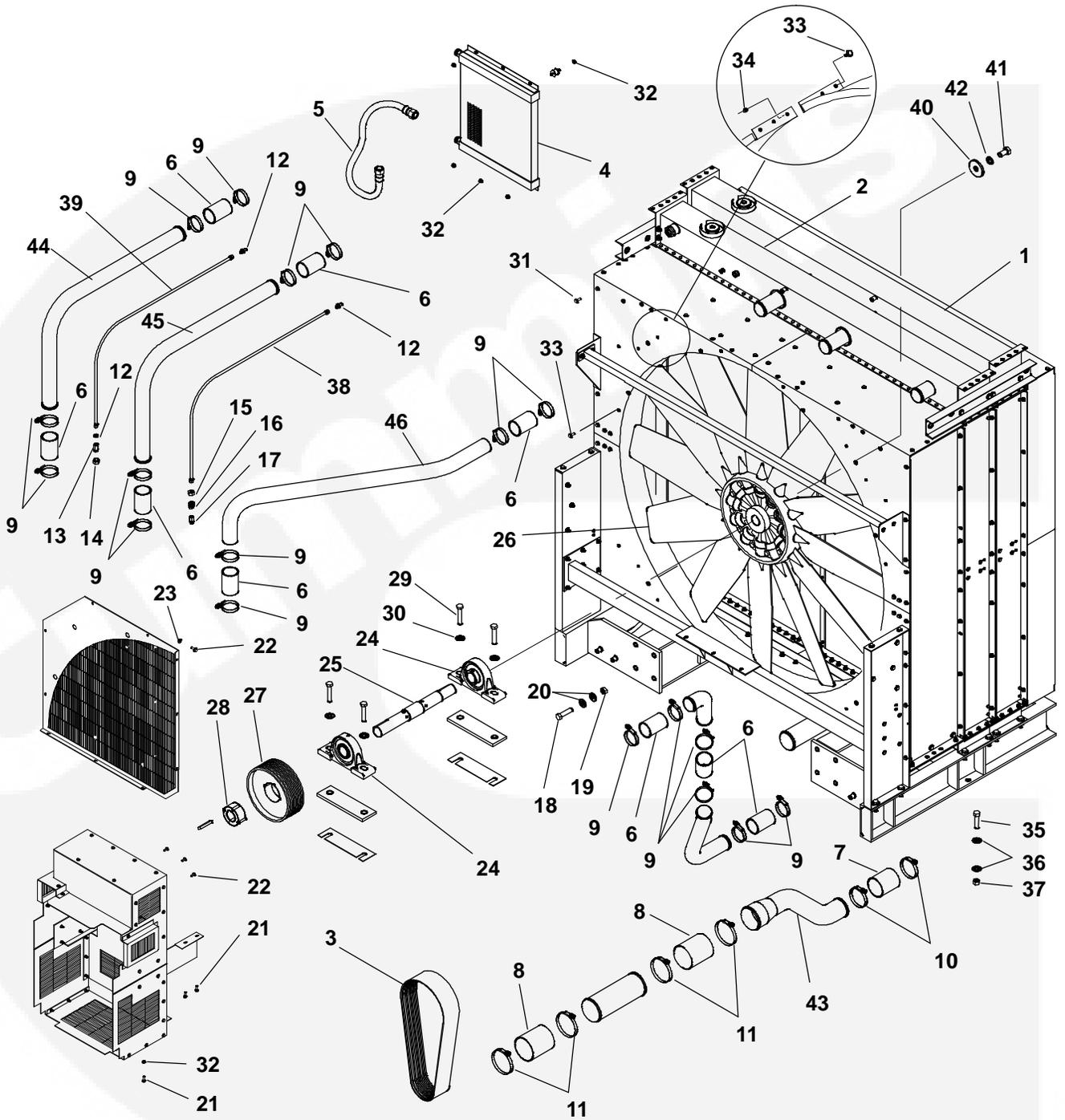
## Remote Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5642-02	1	Guard, Damper (Left Side)	24	309-0635-02	1	Valve, Check
2	130-5641-02	1	Guard, Damper (Right Side)	25	A034X579	1	Coupling, Reducer (3/8 x 1/4)
3	130-5281-02	1	Bracket, Guard	26	130-4517	1	Tube, Water Inlet
4	130-5282-02	1	Cover, Damper	27	130-3687	3	Tube, Water Outlet – Flexible
5			Screw, Hex Head (M8 x 1.25 x 25)	28	130-5081-02	1	Tube, Water Inlet
	821-6003-03	3	Without Flanges	29	503-1726	1	Hose, Radiator (5.00 x 6.00)
	821-6003-03	5	With Flanges	30	503-1728	1	Hose, Radiator (3.00 x 5.50)
	821-6003-03	5	With Heat Exchanger	31	503-1872-09	2	Clamp, Hose
6	821-6003-01	18	Screw, Hex Head (M8 x 1.25 x 16)	32	503-1872-05	2	Clamp, Hose
7	502-1318	1	Adapter, Pipe (M14 x 1/4)	33	130-5168-02	1	Bracket, Tube
8	503-2129-05	1	Line, Radiator Vent	34	155-3290	1	Clamp, Muffler (5")
9	503-2129-04	1	Line, Radiator Vent	35	155-3289	1	Clamp, Muffler (3")
10	502-1326	1	Adapter, Pipe (M33 x 3/4)	36	130-5082-02	1	Bracket, Water Inlet
11	505-0051	1	Elbow, Street – 90° (3/4)	37	870-2065-03	2	Nut, Hex – Flange (M8)
12	505-0102	1	Nipple, Pipe (3/4 x 1.38)	38	130-3684	6	Gasket
13	504-0171	1	Valve	39	130-5084-02	3	Tube, Water Outlet – Flexible
14	505-0324	1	Nipple, Half (3/4)	40	800-3017-41	10	Screw, Cap – Hex Head (M10 x 1.5 x 45)
15	370-4081	8	Spacer	41	526-0399-62	10	Washer, Flat (M10)
16	193-0486	1	Sender, Low Coolant Level	42	850-0114-55	9	Washer, Lock – Split (M10)
17	338-3832	1	Harness, Wiring – Low Coolant Level Sender (4 Wire, 169") (Includes Parts Marked *)	43	862-0026-56	9	Nut, Hex (M10 x 1.5)
18	323-1765	1	* Connector, Housing – 4 Place (Station 20)	44	130-5458-02	1	Bracket, Support
19	323-1708	4	* Seal, Cable (Used With Station 20)	45	800-3017-54	2	Screw, Cap – Hex Head (M12 x 1.75 x 30)
20	323-1549	1	* Connector, Receptacle – 4 Place (Inline G)	46	526-0399-64	2	Washer, Flat (M12)
21	323-1547	1	* Wedge, Receptacle (Used With Inline G)	47	800-6284-01	2	Screw, Cap – Hex Head (M16 x 2 x 180)
22	323-1491	4	* Pin, Contact (Used With Inline G)	48	526-0399-75	2	Washer, Flat (M16)
23	323-1709	4	* Socket, Contact (Used With Station 20)	49	130-5774-02	1	Bracket, Tube – LTA
				50	155-4031	1	Clamp, Exhaust (2-1/8)

\* – Parts Included In 338-3832 Wiring Harness

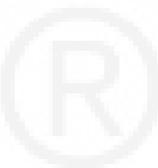


**Radiator**  
**DQKB, DQKC, DQKH – 50°C, 60 Hz**  
**DQKH – 40°C, 50 Hz**

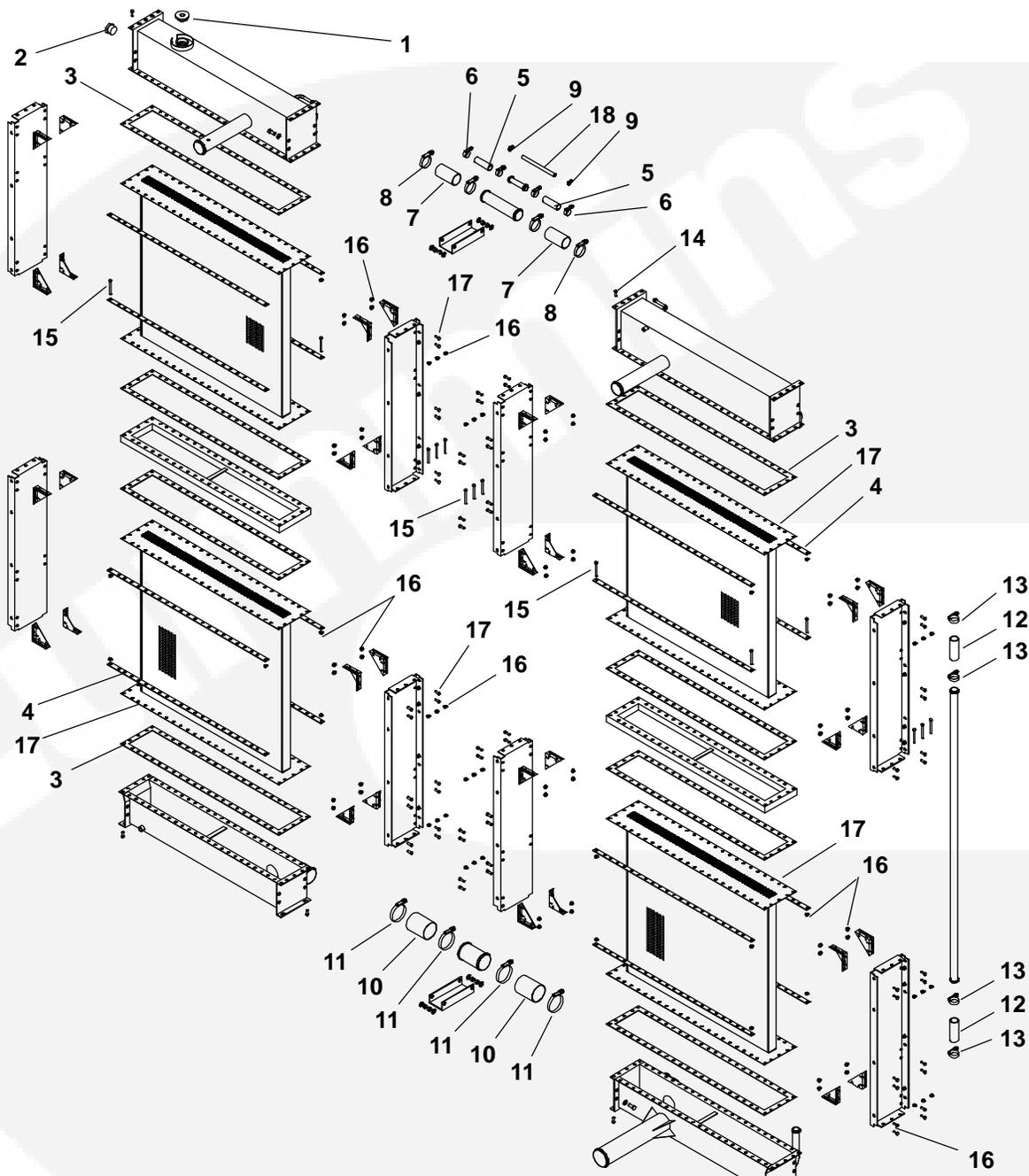


**Radiator**  
**DQKB, DQKC, DQKH – 50°C, 60 Hz**  
**DQKH – 40°C, 50 Hz**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Radiator (Includes Jacketwater, Aftercooler, Cap, Overflow Hose and Sight Gauge Service Parts)	17	502-1318	1	Adapter – M14 x 1/4" NPT M/F
				18	800-6317	8	Screw, Hex Head (M20 x 50 CL 10.9)
	179-3455	1	50 Hz	19	860-2035	8	Nut, Hex (M20 CL10 Nyloc)
	179-2988	1	60 Hz	20	526-2304	16	Washer, Flat (M20 CL10)
1			Slab, Jacket Water – (See Separate Page For Components)	21	130-5420	19	Bolt (M8 x 25 CL 8.8)
			Left Side	22	130-5418	39	Bolt (M6 x 20 CL 6.6)
	XXX-XXXX	1	50 Hz (TBD)	23	860-2033	13	Nut, Hex (M6)
	130-5706	1	60 Hz	24			Bearing, Fan
			Right Side		130-5329	2	UCP312
	XXX-XXXX	1	50 Hz (TBD)		130-5330	2	UCP313
	130-5705	1	60 Hz	25	130-5331	1	Shaft, Fan
			Slab, LTA (See Separate Page For Components)	26	130-5335	1	Fan, Impeller
			Left Side	27			Pulley, Fan
	XXX-XXXX	1	50 Hz (TBD)		XXX-XXXX	1	50 Hz (TBD)
	130-5708	1	60 Hz		130-5336	1	60 Hz
2			Right Side	28	130-5337	1	Bushing, Taper Lock
			50 Hz (TBD)	29	800-2213	4	Bolt (M20 x 100)
			60 Hz	30	526-2304	8	Washer, Flat (M20)
	XXX-XXXX	1	50 Hz (TBD)	31	130-5420	78	Bolt (M8 x 25)
	130-5707	1	60 Hz	32	130-5419	46	Nut, Hex (M8)
			Belt, Fan	33	130-5418	32	Bolt (M6 x 20)
3	130-5338	1	Cooler, Fuel	34	870-0506	28	Nut, Nyloc – (M6)
4	130-5339	1	Hose, Fuel	35	800-2175	12	Bolt (M16 x 50 CL 8.8)
5	501-0814	1	Hose 3"	36	860-2034	12	Nut, Nyloc (M16)
6	130-5359	9	Hose 4"	37	526-0038	24	Washer, Flat (M16)
7	130-5354	1	Hose, JW 5"	38	130-5713	1	Vent Line, Jacket Water
8	130-5356	2	Clamp, Hose	39	130-5714	1	Vent Line, LTA
9	503-1872-05	18	Clamp, Hose	40	130-5332	1	Washer, Fan – Machined
10	503-1872-07	2	Clamp, Hose	41	130-5334	1	Screw, Set (M20 x 40)
11	503-1872-10	4	Clamp, Hose	42	130-5333	1	Washer, Spring (M20)
12	130-5355	3	Adapter – 1/4 BSPT x 1/4 BSPP M/M	43	503-2454	1	Hose, Reducing (4" to 5" ID) (Not used on all Specs)
13	130-5414	1	Socket, Hex	44	130-6741	1	Tube, Radiator (2.54cms length)
14	130-5415	1	Adapter – 11/16" ORFS – 1/4" BSP F/M	45	130-6742	1	Tube, Radiator (121.92cms length)
15	505-2160	1	Adapter – 1/4" BSP x 3/8" NPT M/F	46	130-6743	1	Tube, Radiator (160.02cms length)
16	309-0635-02	1	Valve, Check				

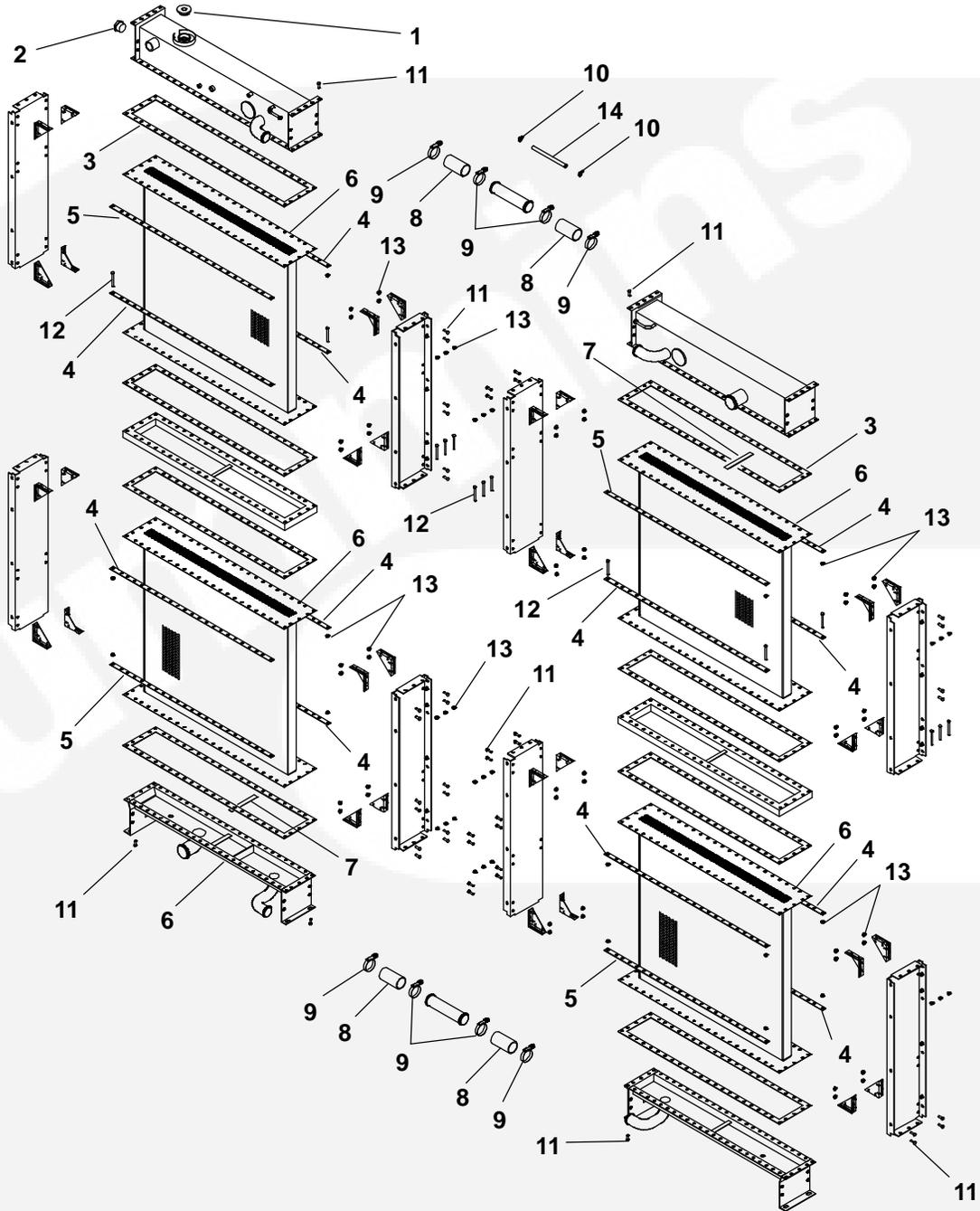


**Jacket Water  
60 Hz  
DQKB, DQKC, DQKH**



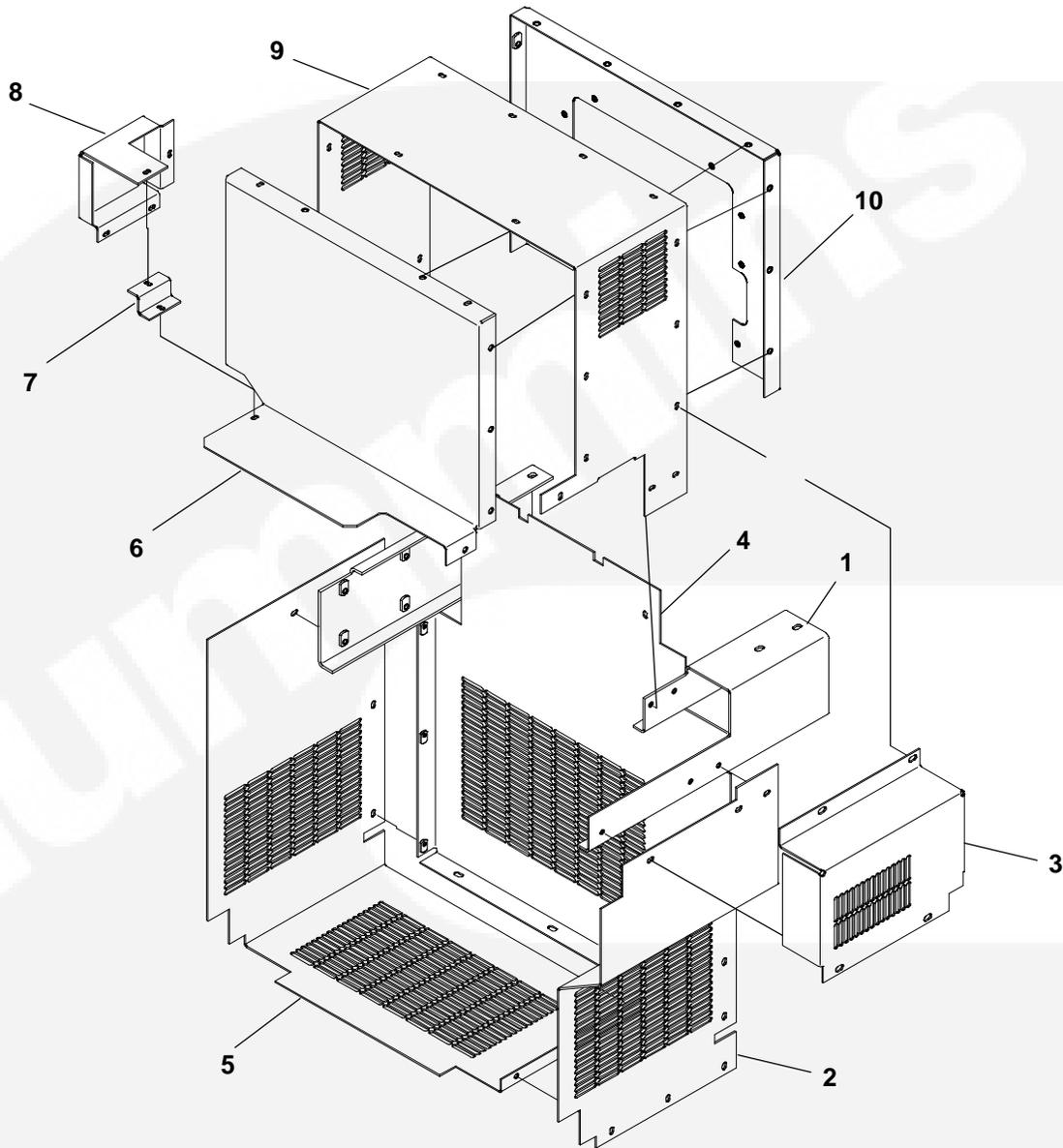
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5325	1	Cap, Radiator	10	503-2453	2	Hose - 88.9 ID
2	130-5342	1	Sight Glass 1-1/2" NPT	11	503-1872-07	4	Clamp, Hose (95-117)
3	130-5326	8	Gasket, NBC	12	503-2450	2	Hose - 38.1 ID
4	130-5327	16	Strap, Tank	13	503-1872-02	4	Clamp, Hose (32-54)
5	503-2452	2	Hose - 25.4 ID	14	800-2058	304	Screw, Set (M8 x 25)
6	503-1872-01	4	Clamp, Hose (25-44)	15	800-2069	104	Bolt (M8 x 80)
7	503-2451	2	Hose - 57.2 ID	16	130-5419	408	Nut (M8)
8	503-1872-04	4	Clamp, Hose (57-80)	17	130-5709	4	Core, Radiator
9	503-0446	2	Clamp, Hose	18	130-5346	2	Tube, Vent

**LTA Radiator Core  
60 Hz  
DQKB, DQKC, DQKH**



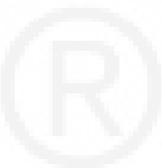
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5325	1	Cap, Radiator	8	503-2451	4	Hose
2	130-5342	1	Sight Glass	9	503-1872-04	8	Clamp, Hose
3	130-5326	8	Gasket	10	503-0446	2	Clamp, Hose
4	130-5327	12	Strap, Tank	11	800-2058	288	Screw, Set (M8 x 25)
5	130-5970	4	Strap, Tank	12	800-2069	112	Bolt (M8 x 80)
6	130-5710	4	Core, Radiator	13	130-5419	400	Nut (M8)
7	130-5973	2	Strip, Sealing	14	130-5346	2	Tube, Vent

## Belt Guard 60 Hz

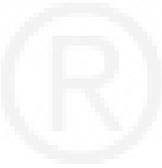
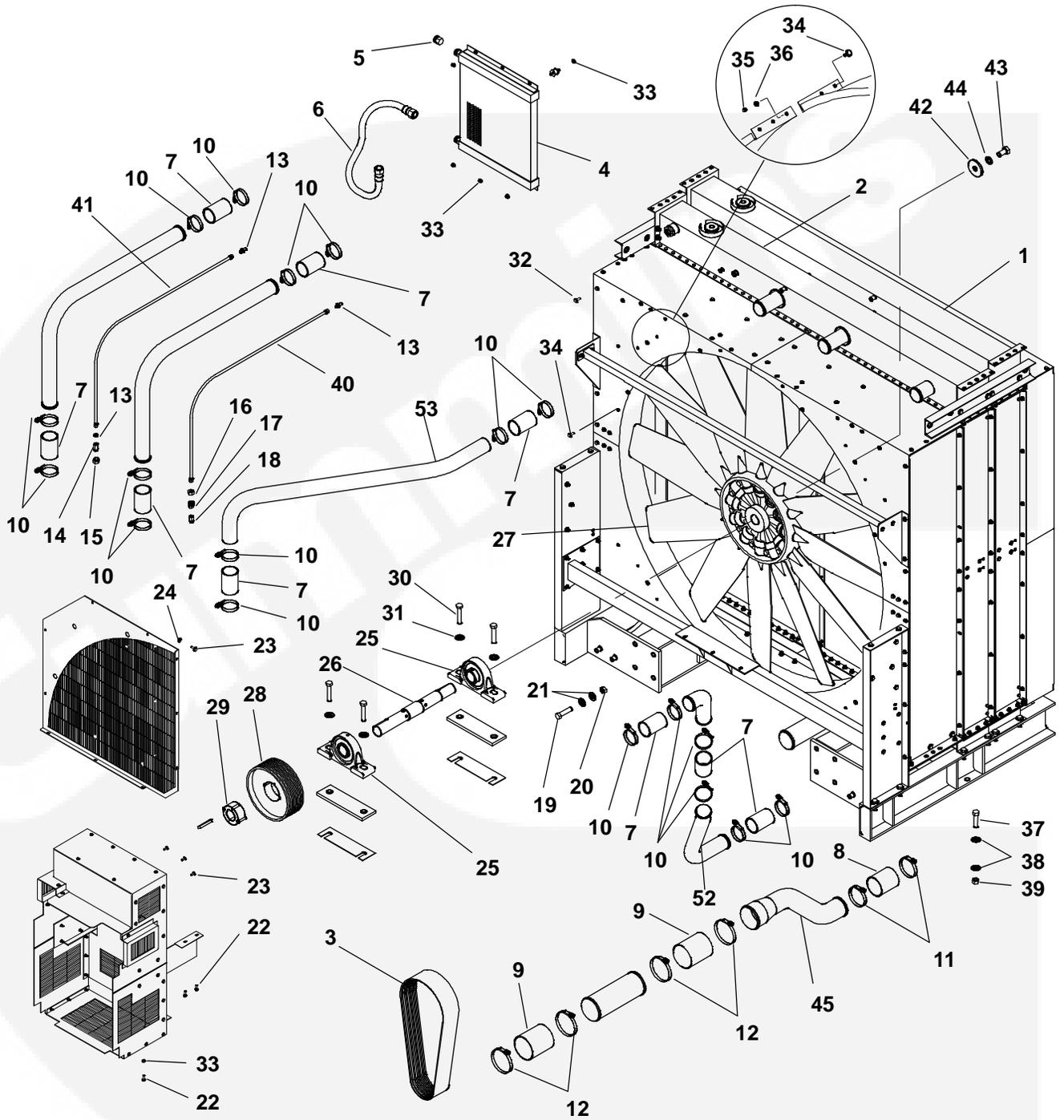


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5886-02	1	Bracket, RH Side	6	130-5843	1	Guard, Belt - Front
2	130-5889-02	1	Panel, Side - RH	7	130-5849	1	Angle, LH
3	130-5887-02	1	Panel, Extension - RH	8	130-5848	1	Panel, Extension - LH
4	130-5888-02	1	Guard, Belt - Lower Rear	9	130-5842	1	Panel, Top
5	130-5890-02	1	Guard, Belt - Bottom	10	130-5841	1	Panel, Upper Rear

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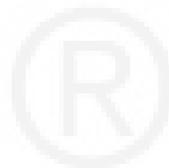
# Radiator DQKB, DQKC – 40°C, 60 Hz



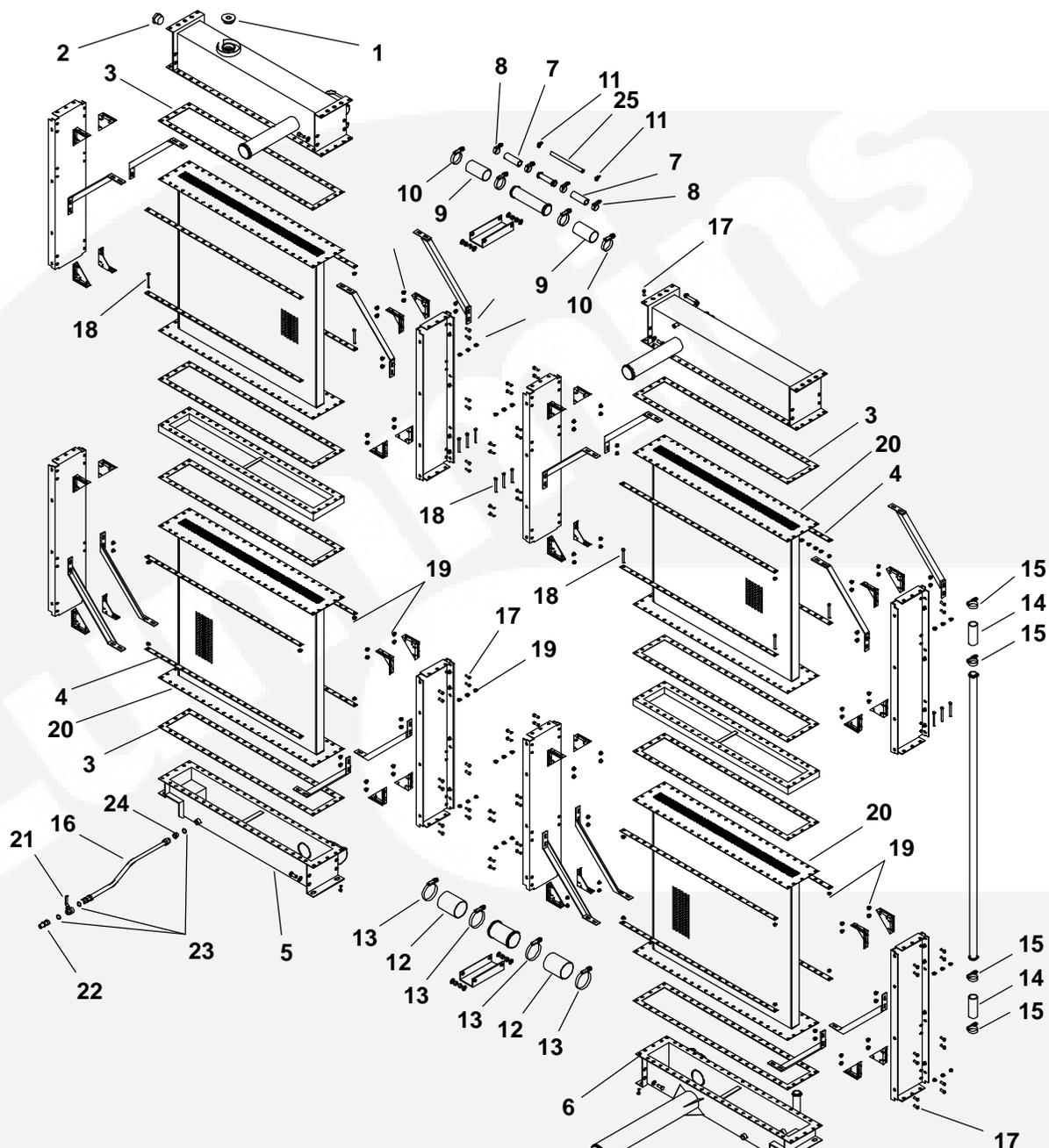
## Radiator

### DQKB, DQKC, DQKH – 40°C, 60 Hz

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Radiator (Includes Jacketwater, Aftercooler, Cap, Overflow Hose and Sight Gauge Service Parts)	23	130-5418	39	Bolt (M6 x 20 CL 6.6)
				24	860-2033	13	Nut, Hex (M6)
				25			Bearing, Fan
	179-3291	1	50 Hz		130-5329	2	UCP312
	179-3173	1	60 Hz		130-5330	2	UCP313
1		1	Slab, Jacket Water – (See Separate Page For Components)	26	130-5553	1	Shaft, Fan
			Left Side	27	130-5554	1	Fan, Impeller
	130-5964	1	50 Hz	28	130-5336	1	Pulley, Fan
	130-5962	1	60 Hz	29	130-5557	1	Bushing, Taper Lock
			Right Side	30	800-2213	4	Bolt (M20 x 100)
	130-5965	1	50 Hz	31	526-2304	8	Washer, Flat (M20)
	130-5963	1	60 Hz	32	130-5420	78	Bolt (M8 x 25)
2			Slab, LTA (See Separate Page For Components)	33	130-5419	46	Nut, Hex (M8)
	130-5967	1	50 Hz	34	130-5418	32	Bolt (M6 x 20)
	130-5966	1	60 Hz	35	870-0506	28	Nut, Nyloc – (M6)
3	511-0203	1	Belt, Fan	36		28	Washer, Flat (M6)
4	130-5339	1	Cooler, Fuel	37	800-2175	12	Bolt (M16 x 50 CL 8.8)
5	130-5417	1	Adapter, Pipe	38	860-2034	12	Nut, Nyloc (M16)
6	501-0814	1	Hose, Fuel	39	526-0038	24	Washer, Flat (M16)
7	130-5359	9	Hose 3"	40	130-5555	1	Vent Line, Jacket Water
8	130-5354	1	Hose 4"	41	130-5556	1	Vent Line, LTA
9	130-5356	2	Hose, JW 5"	42	130-5332	1	Washer, Fan – Machined
10	503-1872-05	18	Clamp, Hose	43	130-5334	1	Screw, Set (M20 x 40)
11	503-1872-07	2	Clamp, Hose	44	130-5333	1	Washer, Spring (M20)
12	503-1872-10	4	Clamp, Hose	45	503-2454	1	Hose, Reducing (4" to 5" ID) (Not used on all Specs)
13	130-5355	3	Adapter – 1/4 BSPT x 1/4 BSPP M/M	46	A030S318	1	* Belt (L Pitch DQKB, DQKC Spec G, DQKD Spec A)
14	130-5414	1	Socket, Hex	47	A030S777	1	* Fancowl (DQKB, DQKC Spec G, DQKD Spec A)
15	130-5415	1	Adapter – 11/16" ORFS – 1/4" BSP F/M	48			* Belt, Drive
16	505-2160	1	Adapter – 1/4" BSP x 3/8" NPT M/F		A030S320	1	(DQKH 2080mm 81.89 in)
17	309-0635-02	1	Valve, Check		130-5338	1	DQKH 2042mm 80 25/64)
18	502-1318	1	Adapter – M14 x 1/4" NPT M/F	49	A030S321	1	* Fan Assy (K Pitch) (DQKH Spec A, B)
19	800-6317	8	Screw, Hex Head (M20 x 50 CL 10.9)	50	A030S323	1	* Fan Assy (L Pitch) (DQKH Spec A, B)
20	860-2035	8	Nut, Hex (M20 CL10 Nyloc)	51	A030S286	1	* StoneGuard (DQKB, DQKC Spec G, DQKD Spec A)
21	526-2304	16	Washer, Flat (M20 CL10)	52	130-5721	1	Hose, Radiator
22	130-5420	19	Bolt (M8 x 25 CL 8.8)	53	A030S269	1	Pipe, LTA (O.D. 76.2)
				* – Items not shown			

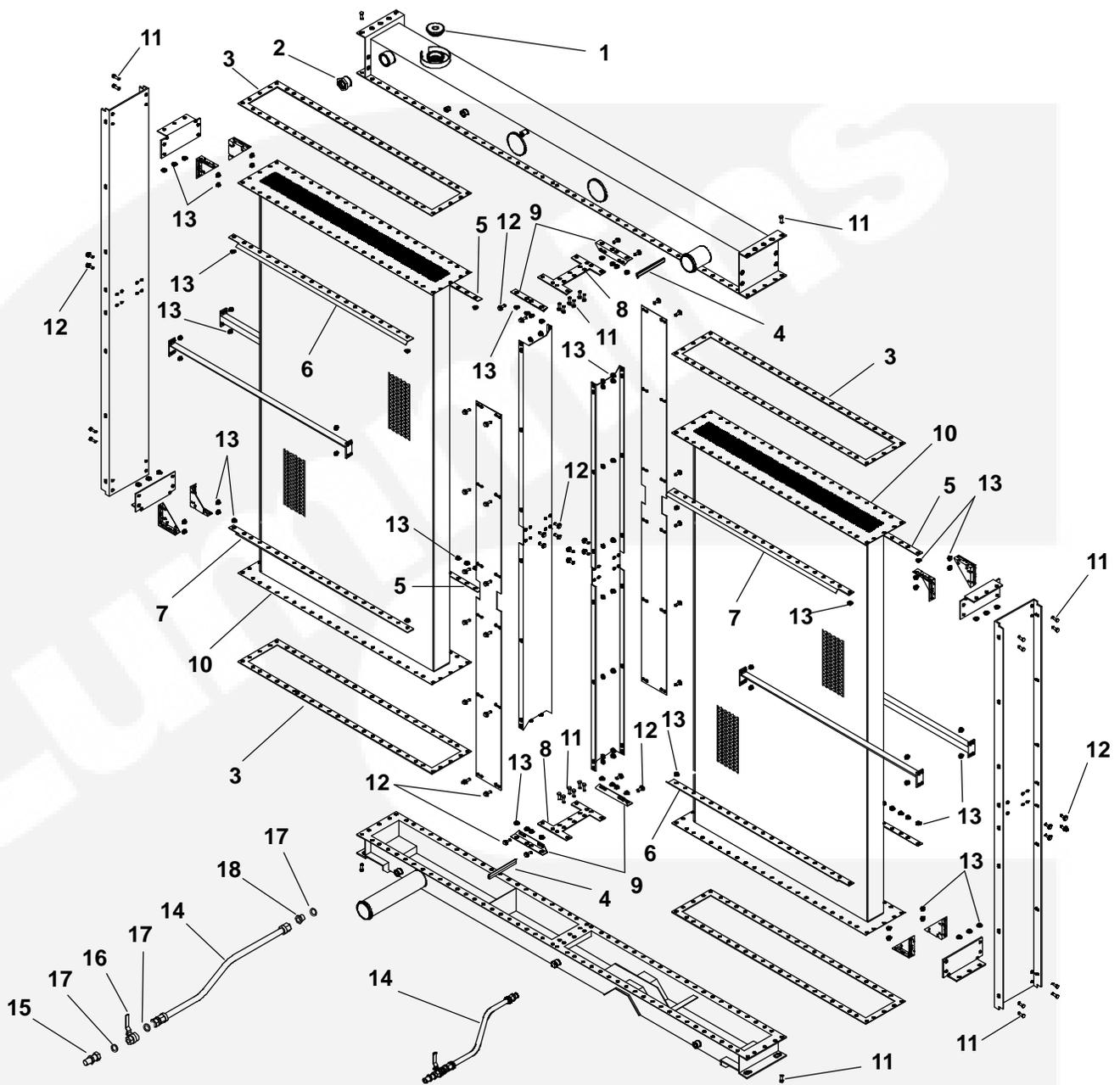


**Jacket Water  
40°C  
DQKB, DQKC, DQKD**



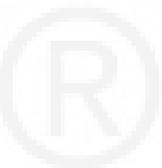
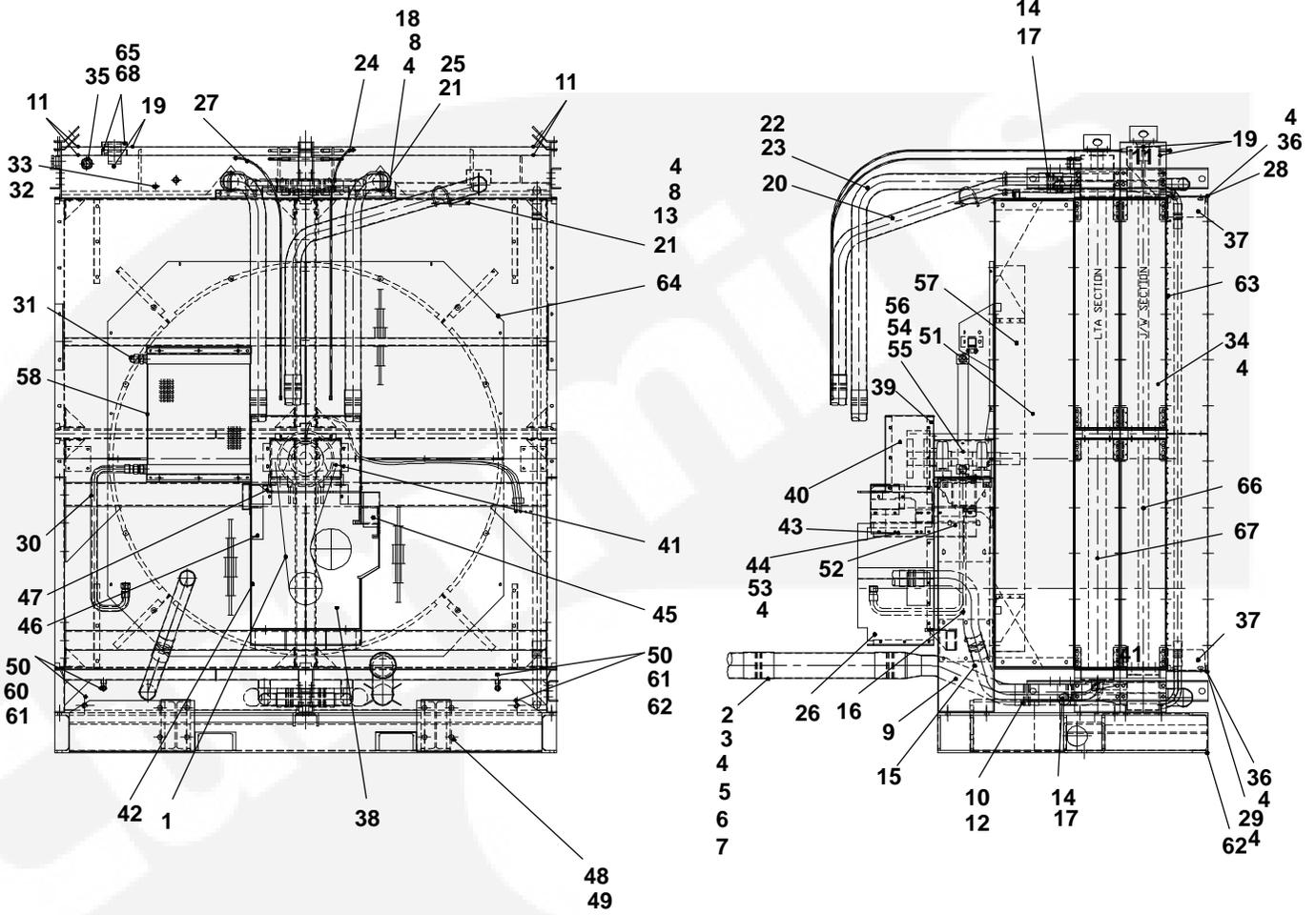
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5325	1	Cap, Radiator	14	503-2450	2	Hose
2	130-5342	1	Sight Glass 1-1/2" NPT	15	503-1872-02	4	Clamp, Hose
3	130-5549	8	Gasket, NBC	16	503-2449	1	Hose, Drain (1/2" JW)
4	130-5959	16	Strap, Tank	17	800-2058	304	Screw, Set (M8 x 25)
5	130-5960	1	Tank, Bottom LH	18	800-2069	104	Bolt (M8 x 80)
6	130-5961	1	Tank, Bottom RH	19	130-5419	408	Nut (M8)
7	503-2452	2	Hose	20	130-5953	4	Core, Radiator
8	503-1872-01	4	Clamp, Hose	21	130-5343	1	Valve, Ball 1/2"
9	503-2451	2	Hose	22	405-7717	1	Bulkhead
10	503-1872-04	4	Clamp, Hose	23	509-0389	3	Washer, Sealing
11	503-0446	2	Clamp, Hose	24	505-2159	1	Adapter, Male 1/2"
12	503-2453	2	Hose	25	130-5346	2	Tube, Vent
13	503-1872-07	4	Clamp, Hose				

LTA 40°C  
DQKB, DQKC, DQKD



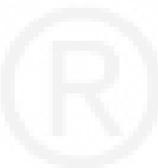
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5325	1	Cap, Radiator	10	130-5969	2	Core, Radiator
2	130-5342	1	Sight Glass 1-1/2" NPT	11	800-2058	224	Screw, Set (M8 x 25)
3	130-5549	4	Gasket - NBC	12	130-5420	48	Bolt (M8 x 25)
4	130-5973	2	Seal, Radiator (Silicone)	13	130-5419	260	Nut (M8)
5	130-5550	4	Strap, Tank	14	503-2448	2	Hose, Drain - LTA 1/2"
6	130-5551	2	Strap, Tank	15	405-7717	2	Bulkhead, Male 1/2" BSPP
7	130-5552	2	Strap, Tank	16	130-5343	2	Valve, Ball 1/2" BSPP
8	130-5971	2	Plate, Support	17	509-0389	6	Washer, Sealing
9	130-5972	4	Bracket	18	505-2159	2	Adapter, Male

# Radiator DQKD - 50°C

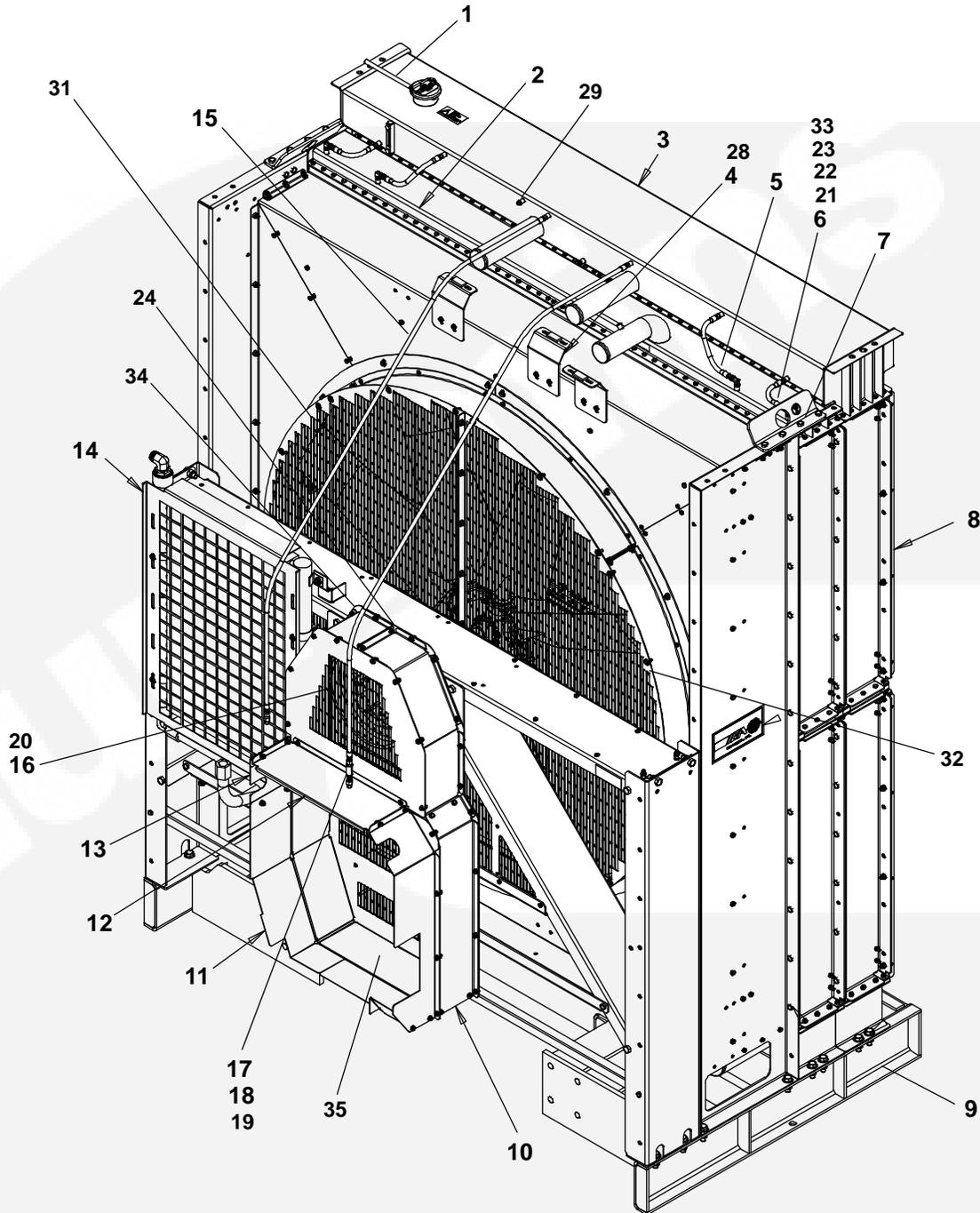


## Radiator DQKD – 50°C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	511-0224	1	Belt, Drive	34	130-6748	4	Duct, Radiator (Trans Frame Side)
2	130-6734	1	Bracket, Tube				
3	503-2691	1	Clamp, Hose (5")	35	130-6749	2	Gauge, Sight (Glass)
4	821-6003-03	37	Screw, Hex Head (M8 x 25)	36	130-6750	2	Duct, Radiator (Trans Top/Bot)
5	503-2662	2	Hose, Radiator	37	130-6751	2	Bracket, Radiator (Duct)
6	503-2692	4	Clamp, Hose	38	130-6752	1	Guard, Radiator (Lower Rear)
7	130-6770	1	Tube, Radiator	39	130-6753	1	Guard, Radiator (Upper Rear)
8	503-2693	2	Clamp, Hose	40	130-6754	1	Guard, Radiator (Top)
9	130-6736	1	Tube, Radiator	41	130-6755	1	Guard, Radiator (Front)
10	503-2661	2	Clamp, Hose	42	130-6756	1	Guard, Radiator (Bottom)
11	098-5822	4	Label, Warning – Lift	43	130-6757	1	Bracket, Radiator (LH)
12	503-2660	1	Hose, Radiator	44	130-6758	1	Bracket, Radiator (RH)
13	130-6737	1	Bracket, Tube	45	130-6759	1	Panel, Radiator Housing (RH)
14	503-2658	9	Hose, Radiator	46	130-6760	1	Guard, Radiator (Ext)
15	130-6738	1	Tube, Radiator – LTA Bottom Rad	47	130-6761	1	Panel, Radiator Housing (Infill)
16	130-6739	1	Tube, Radiator – LTA Bottom Eng	48	800-6317	8	Screw, Hex Head (M20 x 80)
17	503-2641	18	Clamp, Hose	49	860-2035	8	Nut, Hex (M20)
18	130-6740	2	Bracket, Tube	50	098-6775	4	Label (Water Drain)
19	098-4730	4	Label, Warning – Coolant	51	098-5393	2	Label, Warning (Rotating Fan)
20	130-6741	1	Tube, Radiator (LTA Top)	52	098-4732	2	Label, Warning (Rotating Parts)
21	403-6151	3	Pad, Mounting	53	130-6762	1	Bracket, Radiator (Guard RH)
22	130-6742	1	Tube, Radiator (JW Top LH)	54	098-8432	2	Label, Information (Grease)
23	130-6743	1	Tube, Radiator (JW Top RH)	55	130-6768	1	Hub, Radiator Fan (Drive Assembly)
24	130-5713	1	Tube, Radiator Vent (JW)	56	130-6763	1	Fan, Radiator
25	130-6744	2	Bracket, Tube	57	512-0319	1	Pulley
26	130-6745	1	Guard, Radiator (Bottom RH Panel)	58	130-6769	1	Exchanger, Heat (Fuel Cooler)
27	130-5714	1	Tube, Radiator Vent (LTA)	59	512-0320	1	Bushing, Coupling (Not Shown)
28	130-6746	1	Duct, Radiator (Trans Top RH)	60	505-2301	4	Adapter, Pipe (1/2")
29	130-6747	1	Duct, Radiator (Trans Bottom RH)	61	504-0288	4	Valve, Ball
30	503-2695	1	Hose, Fuel	62	403-6152	1	Mount, Radiator
31	505-2310	1	Adapter, Pipe	63	130-6764	4	Guard, Radiator (Stone)
32	309-0713	1	Switch, Level (Low Coolant Level)	64	130-6765	1	Guard, Fan
33	338-4694	1	Harness, Switch	65	130-6612	2	Cap, Pressure
				66	130-6766	2	Core, Radiator (JW)
				67	130-6767	2	Core, Radiator (LTA)
				68	130-6623	2	Tube, Radiator Vent



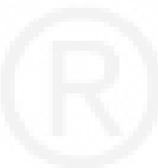
# Radiator DQKH - Begin Spec C



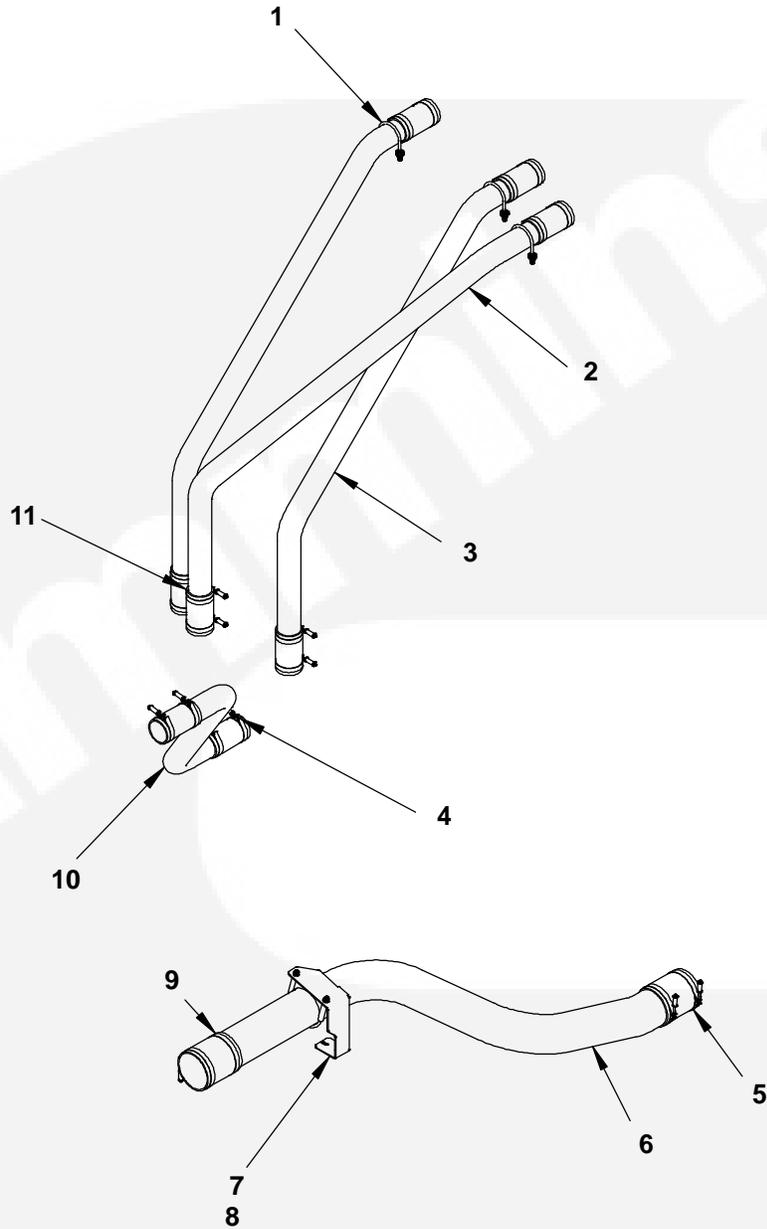
## Radiator DQKH – Begin Spec C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	A030H789	1	Radiator	20	A029Y838	1	Pulley, Fan
1	A029Y824	1	Hose	21	A029Y110	2	Tube
2	A029X953	1	Slab, Radiator	22	A029Y112	1	Tube
3	A029X949	1	Slab, Radiator	23	A029Y282	1	Clamp
4	A029Y827	3	Bracket, Support	24	A029Y831	1	Bracket, Mounting
5	A029Y814	2	Hose, Vent	25	A029Y828	2	* Clamp, Hose (bottom)
6	A029Y804	2	Hose, Vent	26	A029Y825	1	* Hose (Bottom)
7	A029Y832	2	Bracket, Lifting	27	A029Y830	2	* Bracket, Fan Guard (Bottom)
8	A029Y042	1	Guard, Radiator	28	A029Z545	3	Crossbar, Arm
9	A029Z289	1	Chassis, Radiator	29	A029Y032	2	Plug, Pipe
10	A029Z046	1	Guard, Belt	30	A029C928	4	* Clip, Hose
11	A029Z037	1	Guard, Belt	31	A029Y038	2	Guard, Fan
12	A029Z038	1	Guard, Belt	32	A029Y041	2	Guard, Fan
13	A029Z045	1	Guard, Fan	33	A029Y826	4	Hose
14	A029Z436	1	Cooler, Fuel	34	A029Y875	1	Guard, Belt
15	A029Y817	2	Hose, Vent	35	A029Z036	1	Guard, Belt
16	A029Y848	1	Bushing				
17	A029Z539	1	Coupling, Reducer				
18	309-0635-02	1	Valve, Check				
19	505-2355	2	Adapter, Pipe				

\* – Parts Not Shown

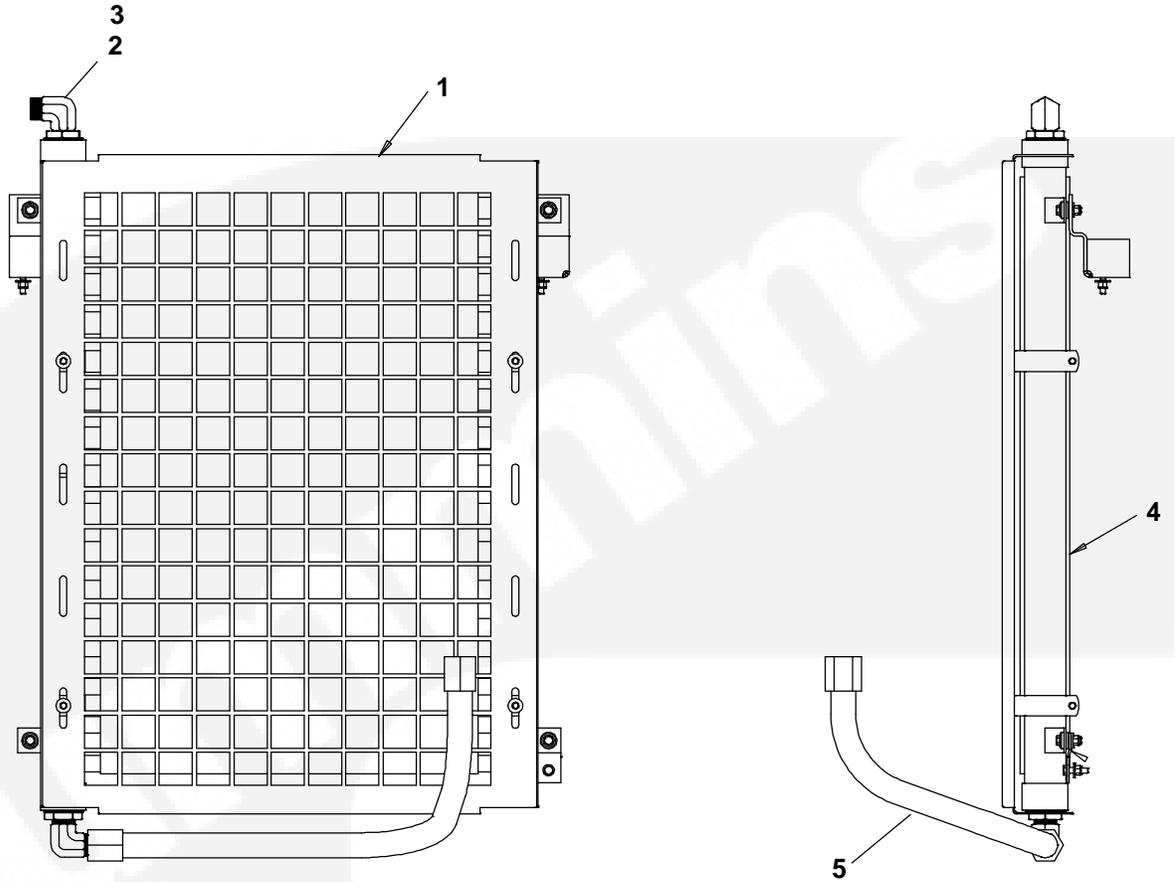


## Radiator-Packing List DQKH - Begin Spec C

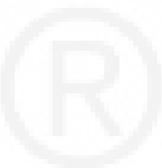


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	A029Z546	1	Installation, Coolant	6	A029Z112	1	Tube, Radiator
1	A029Z098	3	Bolt, U	7	A029Z100	1	Bracket, Mounting
2	A029Z114	1	Tube, Radiator	8	A029Z099	2	Bolt, U
3	A029Z111	2	Tube, Radiator	9	A029Z123	2	Hose
4	A029Z124	16	Clamp, Hose	10	A029Z113	1	Tube, Radiator
5	A029Z125	4	Clamp, Hose	11	A029Z122	8	Hose

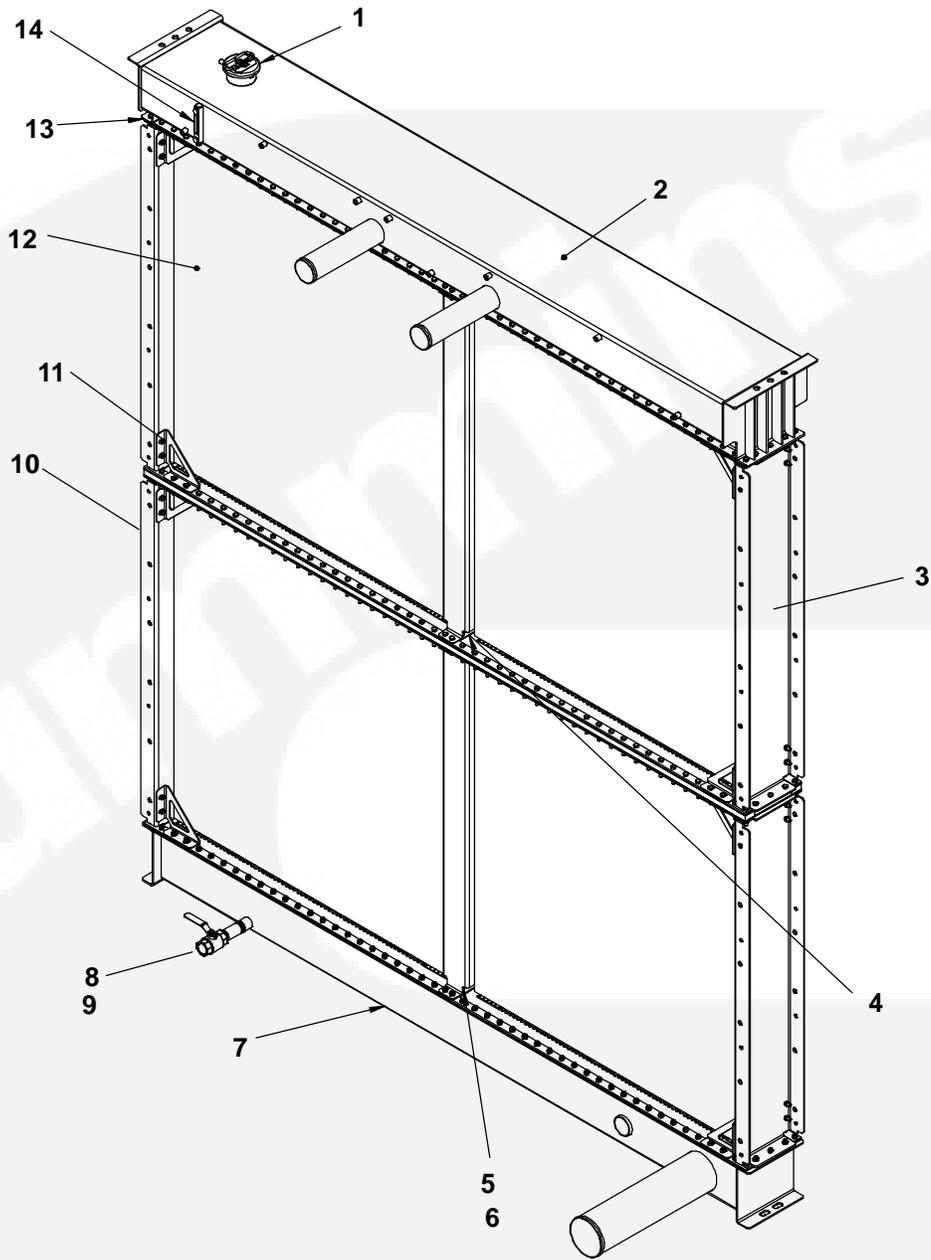
**Cooler, Fuel  
DQKH - Begin Spec C**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A029Z438	1	Guard, Radiator				
2	A029Z442	2	Fitting, Elbow (90 Deg 1" male, 1" NPT)				
3	A029Z441	2	Bushing, Reducer				
4	A029Z439	1	Cooler, Fuel				
5	A029Z518	4	Hose, Fuel				

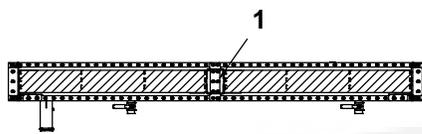


## Radiator, Slab DQKH - Begin Spec C

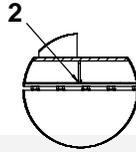


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A029C595	1	Cap, Radiator (Pressure)	10	A029X966	4	Frame, Radiator Support, Frame
2	A029X829	1	Tank, Radiator	11	A029X968	16	Core, Radiator
3	A029Z523	8	Seal, Radiator	12	A029X808	4	Gasket, Radiator
4	A029X965	4	Washer	13	A029X828	8	Gauge, Sight
5	A029Y007	2	Bracket, Support	14	A029X986	1	
6	A029X961	16	Washer				
7	A029X831	1	Tank, Radiator				
8	A029Z536	1	Fitting, Nipple				
9	504-0296	1	Valve, Ball				

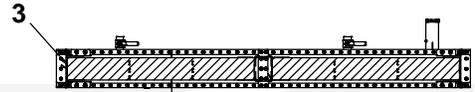
## Radiator, Slab DQKH - Begin Spec C



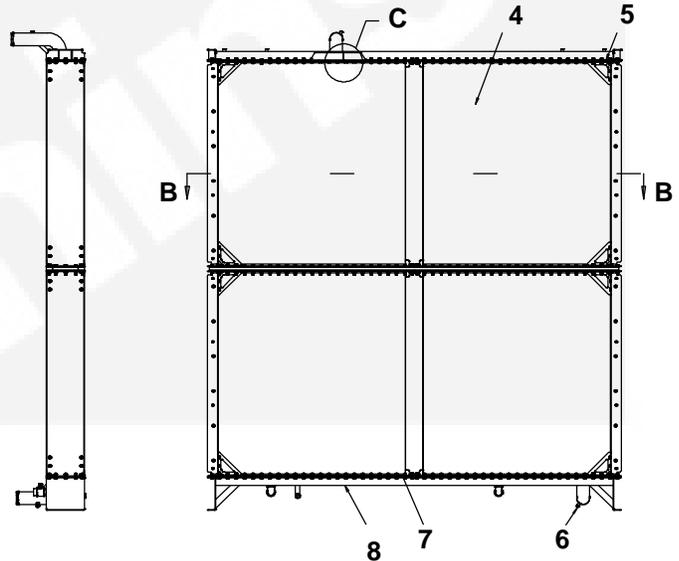
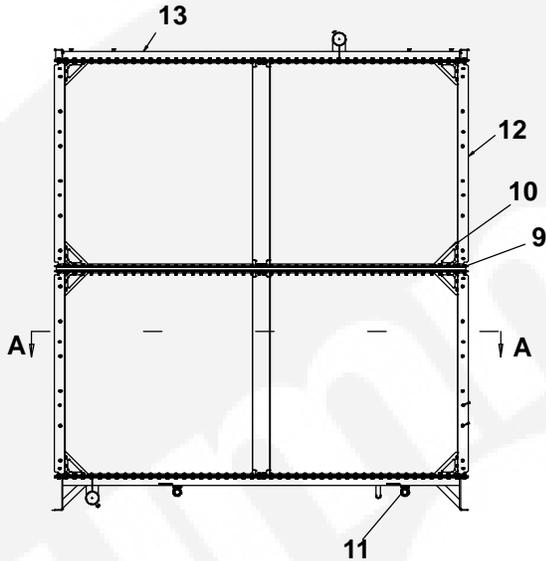
SECTION A-A



DETAIL C

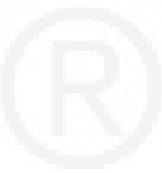


SECTION B-B

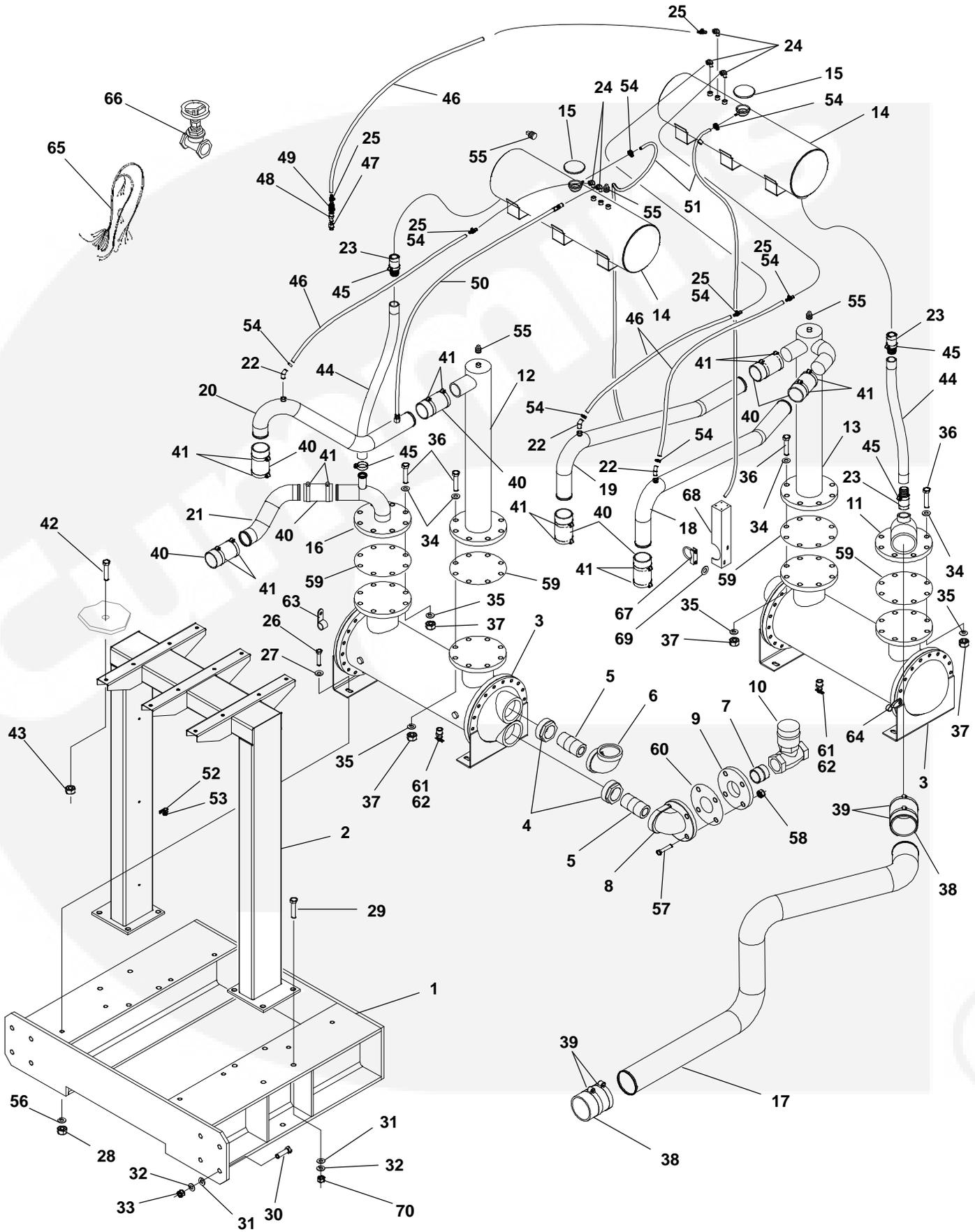


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A029X965	2	Washer
2	A029X956	6	Gasket, Radiator
3	A029Z523	8	Seal, Radiator
4	A029Y013	4	Core, Radiator
5	A029X828	8	Gasket, Radiator
6	A029Y032	1	Plug, Pipe
7	A029X961	16	Washer
8	A029X935	1	Tank, Radiator
9	A029X939	1	Tank, Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	A029X968	16	Support, Frame
11	504-0296	2	Valve, Ball
12	A029X966	4	Frame, Radiator
13	A029X921	1	Tank, Radiator

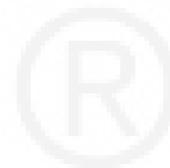


# Heat Exchanger DQKB, DQKC, DQKD

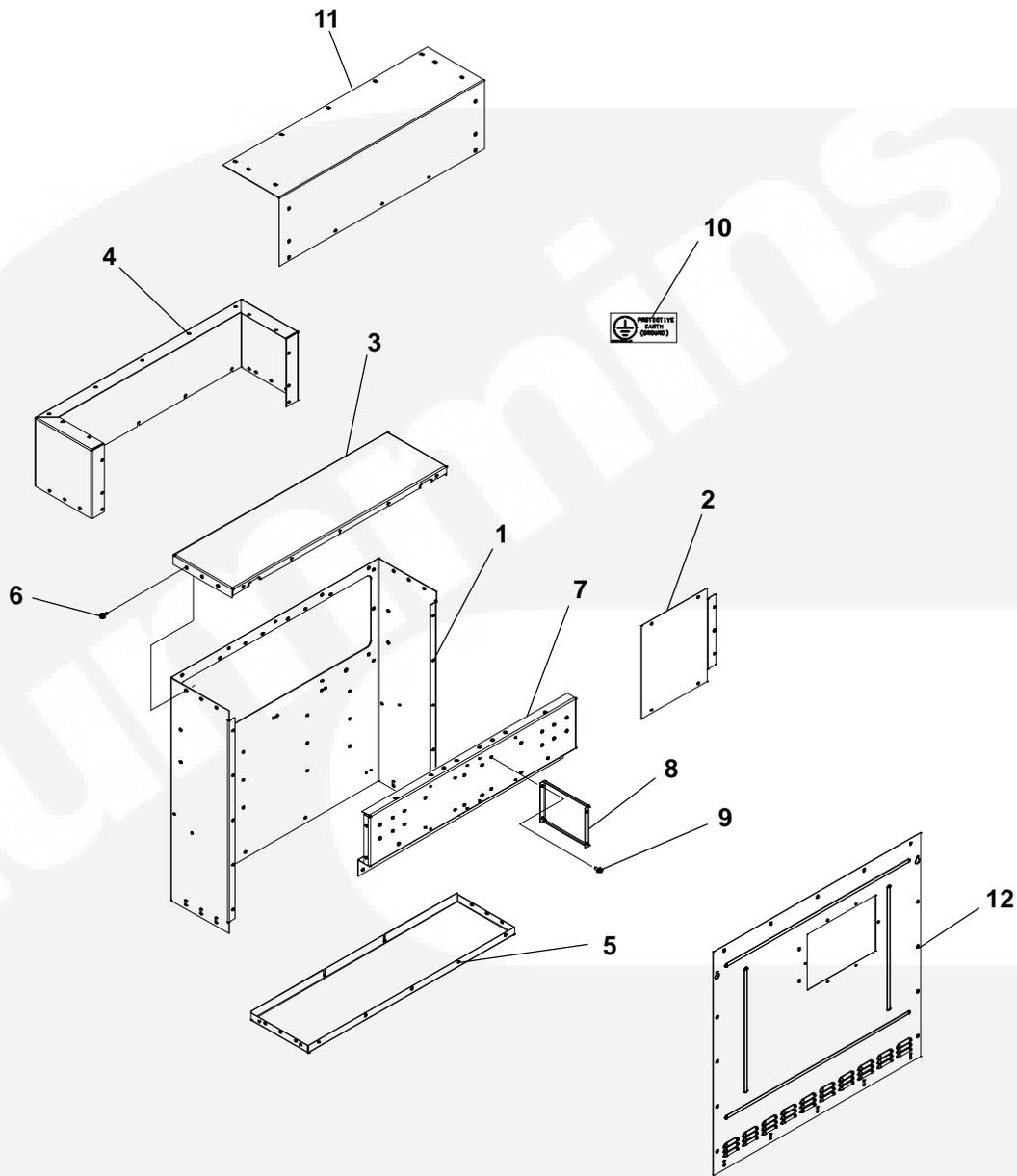


## Heat Exchanger DQKB, DQKC, DQKD

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4473-02	1	Skid, Heat Exchanger	38	503-1726	2	Hose, Radiator (5.00 x 6.00)
2	403-4479-02	1	Frame, Expansion Tank	39	503-1872-09	4	Clamp, Hose
3	130-3772	2	Exchanger, Heat	40	503-1728	8	Hose, Radiator (3.00 x 5.50)
4	505-1441	4	Bushing, Reducer (4 x 2-1/2)	41	503-1872-05	16	Clamp, Hose
5	505-0103	4	Nipple, Pipe (2-1/2 x 2.50)	42	821-6003-03	12	Screw, Hex Head (M8 x 1.25 x 25)
6	505-0044	2	Elbow, Pipe				
7	505-0114	2	Nipple, Pipe (2-1/2 x 3.00)	43	870-2065-03	12	Nut, Hex - Flange (M8 x 1.25)
8	505-1442	2	Elbow - 90°	44	503-1729	-	Hose, Radiator - Bulk (Order by the Foot - 5 Feet Required)
9	155-0899	2	Flange, Companion (2-1/2)				
10	307-2711	2	Valve, Solenoid (24V)				
11	130-3773	1	Elbow, Heat Exchanger Outlet	45	503-1872-02	4	Clamp, Hose
12	130-5265-02	1	Manifold, Heat Exchanger	46	503-1620	-	Hose, Fuel - Bulk (Order by the Foot - 20 Feet Required)
13	130-3774	1	Manifold, Heat Exchanger Inlet				
14	130-3766	2	Tank, Expansion	47	502-1318	1	Adapter, Pipe (M14 x 1/4)
15	130-0449	2	Cap, Radiator	48	309-0635-02	1	Valve, Check
16	130-5266-02	1	Elbow, Heat Exchanger Outlet	49	505-0153	1	Coupling, Reducer (3/8 x 1/4)
17	130-5259-02	1	Tube, Water - Lower JW	50	503-2129-06	1	Line, Radiator Vent
18	130-5260-02	1	Tube, Water - Upper JW	51	503-1418	-	Hose, Fuel - Bulk (Order by the Foot - 12 Feet Required)
19	130-5261-02	1	Tube, Water - Upper JW				
20	130-5262-02	1	Tube, Water - Upper LTA	52	518-0548-08	6	Clamp, Hose
21	130-5263-02	1	Tube, Water - Lower LTA	53	821-6003-02	6	Screw, Hex Head (M8 x 1.25 x 20)
22	502-1146	3	Elbow - 45° (3/8 x 3/8)				
23	505-1429	3	Nipple, Combination	54	503-0685	10	Clamp, Hose
24	505-0011	5	Elbow, Street - 90° (1/4)	55	505-0054	5	Plug, Square Head (1/4)
25	502-1162	5	Fitting, Barbed Hose	56	850-2016	8	Washer, Lock - Split (M16)
26	720-1123	8	Screw, Cap - Hex Head (M16 x 2 x 60)	57	800-0310-81	8	Screw, Cap - Hex Head (.625-11 x 2.25)
27	526-0259-02	8	Washer, Flat (M16)	58	862-0007	8	Nut, Hex (.63-11)
28	862-0026-58	8	Nut, Hex (M16 x 2)	59	155-2503	4	Gasket, Flange
29	720-1146	8	Screw, Cap - Hex Head (M20 x 2.5 x 60)	60	155-2514	2	Gasket, Flange
30	800-2208	8	Screw, Cap - Hex Head (M20 x 2.5 x 70)	61	505-0019	2	Bushing, Reducer (1/2 x 3/8)
31	526-0399-76	32	Washer, Flat (M20)	62	504-0028	2	Cock, Drain (3/8)
32	850-2020	16	Washer, Lock - Split (M20)	63	332-2921	2	Clamp, J
33	860-2013	8	Nut, Hex (M20 x 2.5)	64	518-0561	2	Clamp
34	526-0027	64	Washer, Flat (3/4)	65	338-4417	1	Harness, Extension - Heat Exchanger
35	850-0079	32	Washer, Lock (3/4)	66	504-0258	2	Valve, Globe (2.5")
36	800-0160	32	Screw, Cap - Hex Head (3/4-10 x 3.25)	67	155-3289	1	Clamp, Muffler (3")
37	862-0008	32	Nut, Hex (3/4-10)	68	130-5305-02	1	Bracket, Vent Line
				69	526-0026	2	Washer, Flat (3/8)
				70	860-2023-01	8	Nut, Hex (M20 x 2.5)

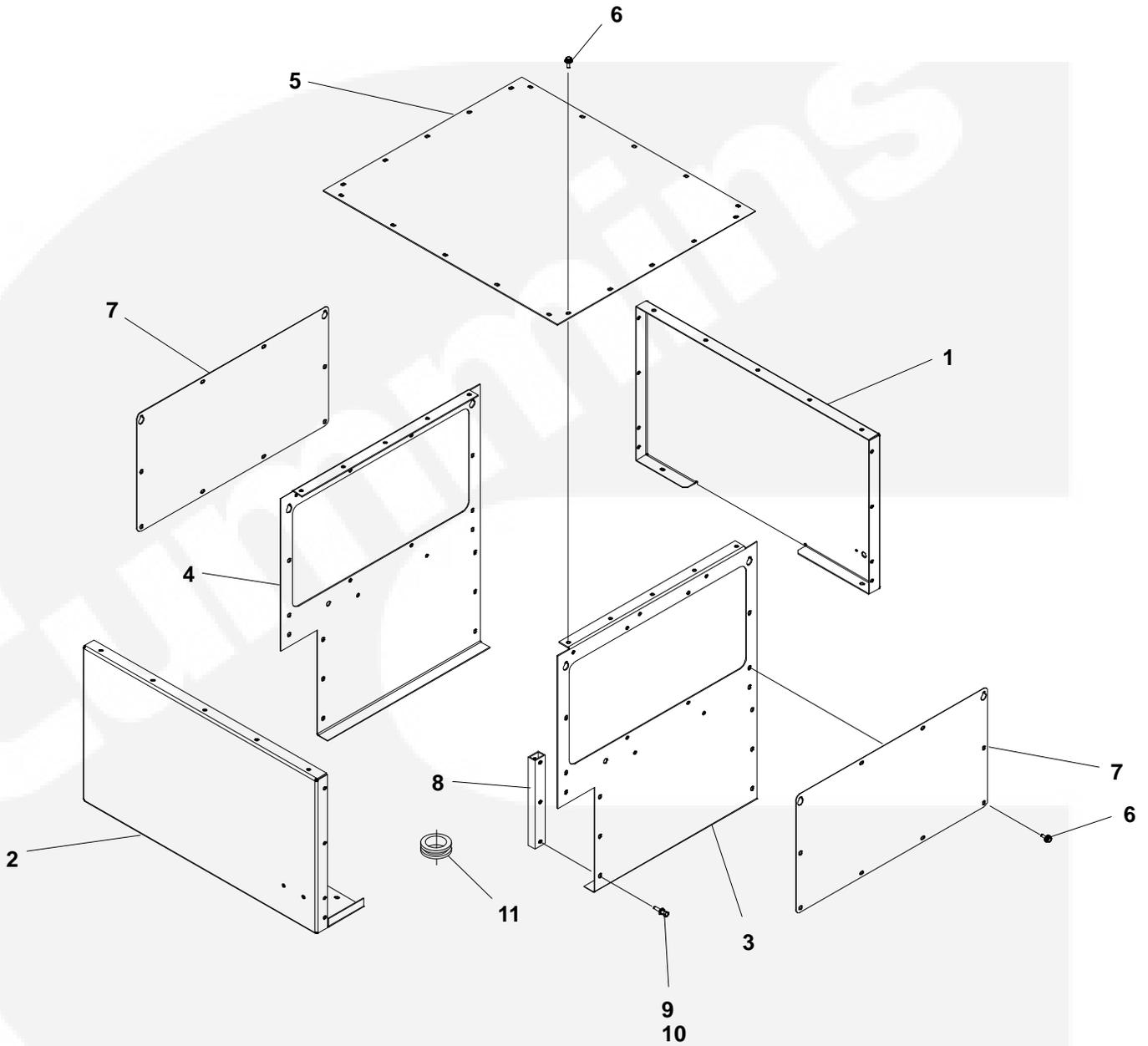


## Entrance Box



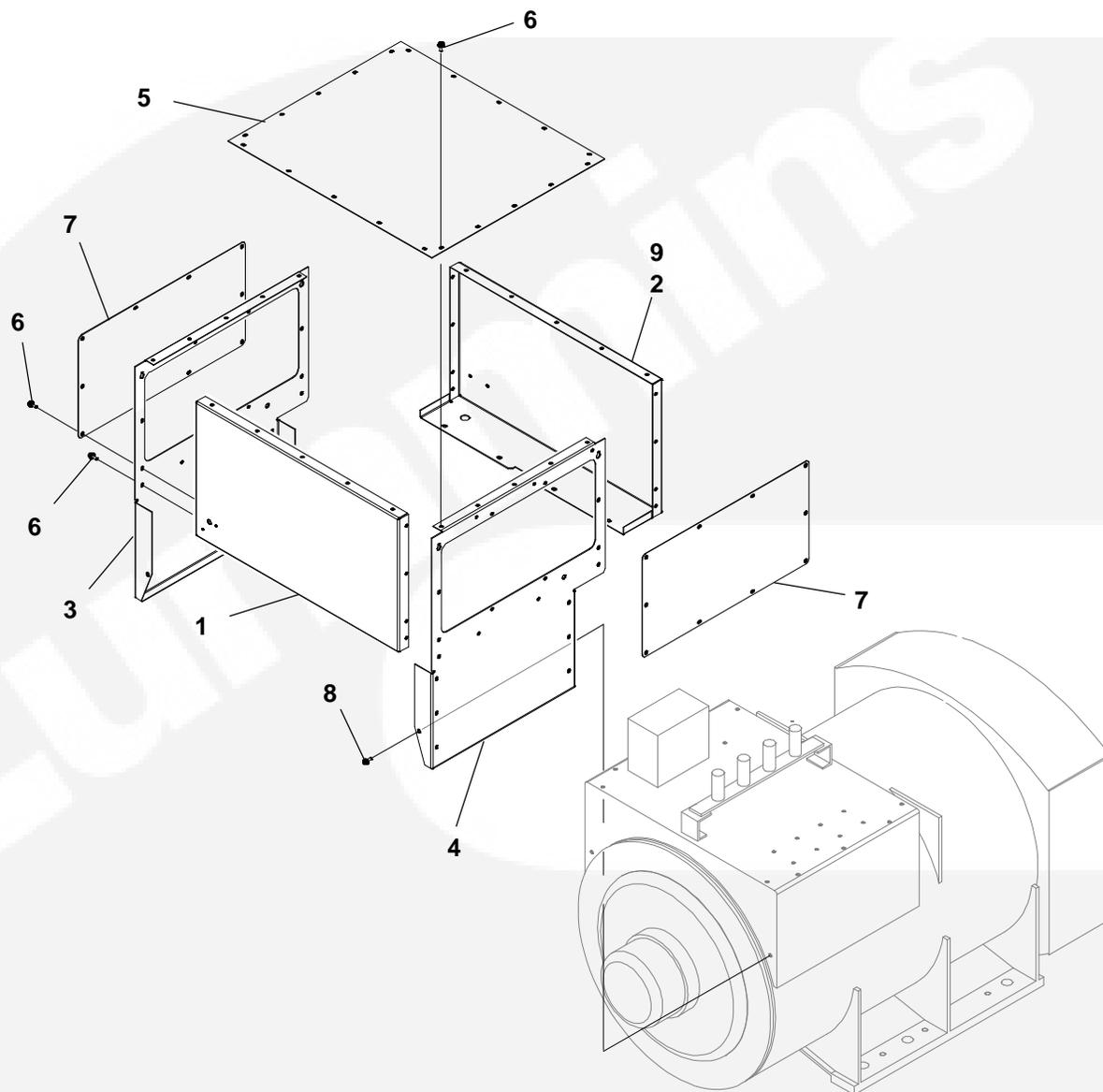
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5161-02	1	Box, Circuit Breaker	7	319-5179-02	1	Bracket, Circuit Breaker
2	319-5084-02	1	Panel, Terminal	8	319-5102-04	1	Stiffener, Cover
3	319-5171-02	1	Cover, Circuit Breaker - Bottom Entrance	9	821-6002-03	8	Screw, Hex (M6 x 1 x 16)
4	319-5216-02	1	Cover, Circuit Breaker - Top and Bottom Entrance	10	098-6635	1	Label, Ground
5	319-5088-02	1	Cover, Circuit Breaker	11	319-5163-02	1	Cover, Circuit Breaker - Adapter Plug - Top and Bottom Entrance
6	821-6003-02	69	Screw, Hex (M8 x 1.25 x 20)	12	319-5176-06	1	Cover, Circuit Breaker - Front

## Terminal Box P7 Alternators



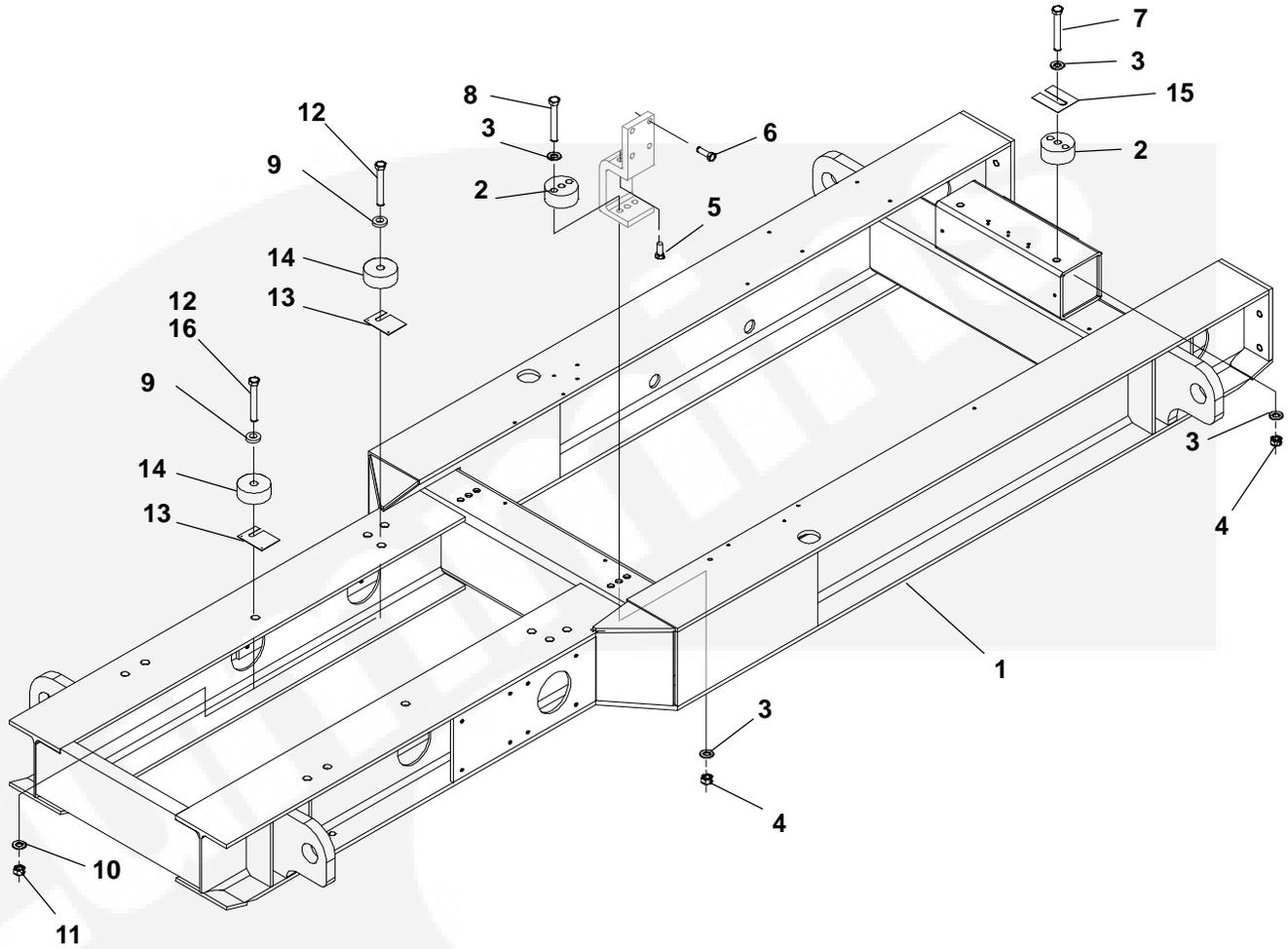
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5080-02	1	Panel, Terminal - Front	7	319-5097-02	2	Panel, Terminal
2	319-5081-02	1	Panel, Terminal - Back	8	319-5488-02	4	Box, Terminal - Spacer
3	319-5082-02	1	Panel, Terminal - Left	9	800-2061	12	Screw, Hex Head (M8 x 40)
4	319-5085-02	1	Panel, Terminal - Right	10	526-0399-60	12	Washer, Flat (M8)
5	319-5083-02	1	Panel, Terminal - Top	11	508-1090	1	Grommet
6	821-6003-02	52	Screw, Hex Head (M8 x 1.25 x 20)				

## Terminal Box Medium Voltage Frame 7 Alternators DQKB, DQKC



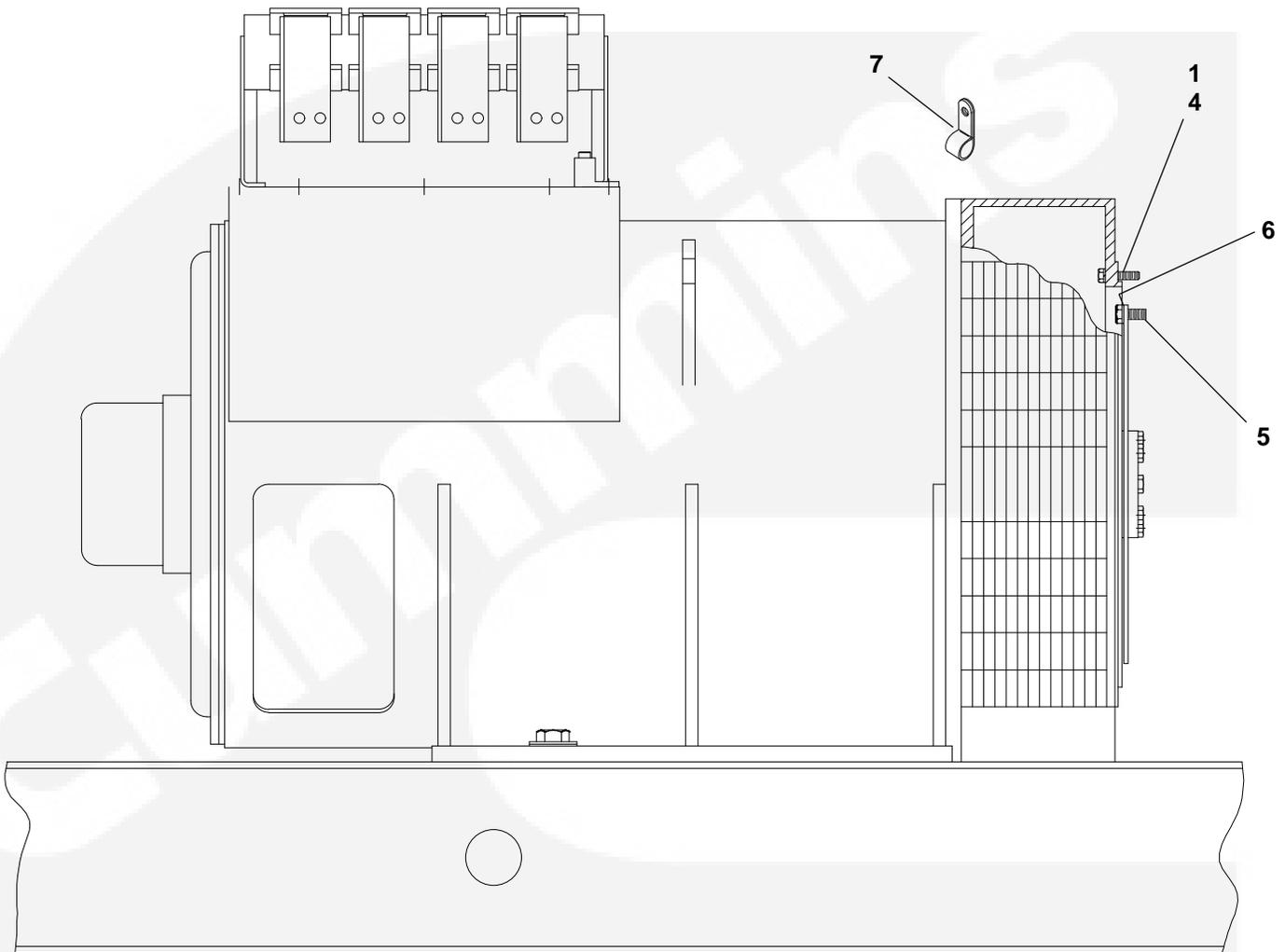
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5427-02	1	Panel, Terminal	7	319-5097-02	2	Panel, Terminal
2	319-5428-02	1	Panel, Terminal	8	821-6004-01	4	Screw, Hex Head (M10 x 1.5 x 20)
3	319-5429-02	1	Panel, Terminal	9	501-0001	1	Grommet
4	319-5430-02	1	Panel, Terminal				
5	319-5083-02	1	Panel, Terminal				
6	821-6003-02	44	Screw, Hex Head (M8 x 1.25 x 20)				

# Skid



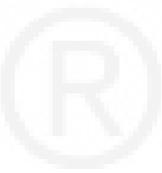
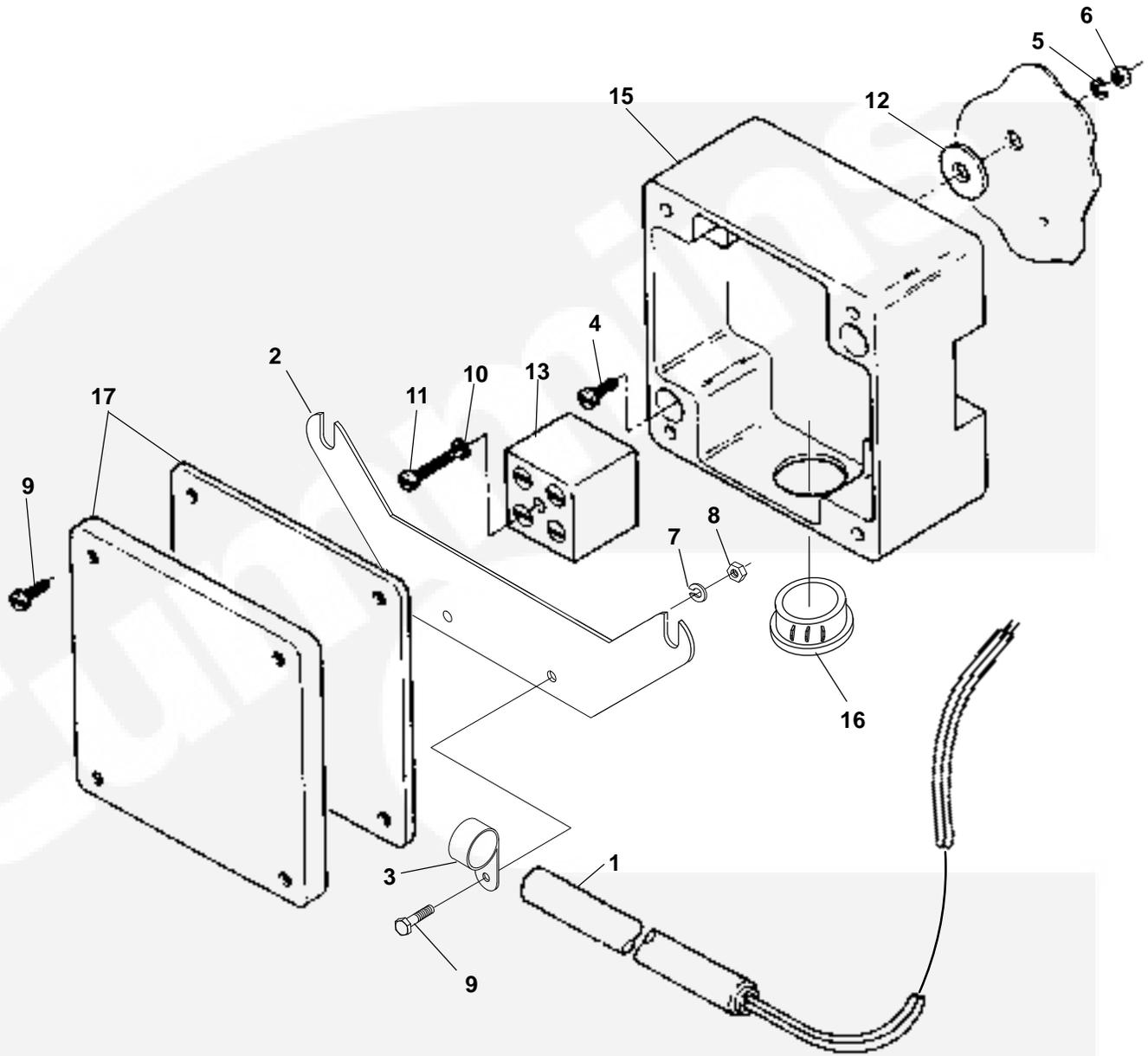
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1		1	Skid				
	403-5180-02	1	(Spec A-C)		800-3048-04	4	P80 Alternators (M24 x 3 x 120mm)
	A030A473	1	(Begin Spec D)	13			Shim, Generator Mounting (Quantity Used As Required)
2	403-4332	4	Spacer, Engine Mounting (1" ID x 5" OD x 2-9/32" Thk)		232-3710-01	1	.0239" Thk
3	526-0399-76	12	Washer, Flat (M20)		232-3710-02	1	.0747" Thk
4	860-2023-01	6	Nut, Hex (M20)		232-3710-03	1	.1345" Thk
5	800-2208	4	Screw, Cap - Hex Head (M20 x 70mm)		232-3710-07	1	.0149" Thk
6	800-2206	8	Screw, Cap - Hex Head (M20 x 60mm)		232-3710-08	1	.0149" Thk
7	800-3047-02	2	Screw, Cap - Hex Head (M20 x 160mm)	14	232-4061	4	Spacer, Generator Mounting (1-1/16" ID x 5" OD x 2-1/8" Thk) - P7 Alternators
8	800-3047-03	4	Screw, Cap - Hex Head (M20 x 2.5 x 130mm)	15	232-4139-02 A/R		Shim, Generator Mounting - P80 Alternators
9	526-0460-02	4	Washer, Generator Mounting	16	800-3048-01		Screw, Cap - Hex Head (M24 x 3 x 170) - P7
10	526-0399-78	4	Washer, Flat (M24)				
11	860-2024-01	4	Nut, Hex (M24)				
12	800-3048-02	2	Screw, Cap - Hex Head P7 Alternators (M24 x 3 x 160mm)				

## Generator Installation



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	249-0798	1	Kit Varistor	5	526-0416	12	Washer, Flat (5/8)
1	850-2012	16	Washer, Lock - Split (M12)	6	805-2022	12	Bolt, Place
2			Screw, Cap - Hex Head (M12)	7	332-3196	1	Clamp, "J"
3	800-2543-07	16	P7				
4	800-2543-08	16	P80				

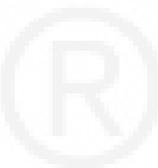
# Generator Heater



## Generator Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cartridge, Heater (300 Watt)	10	850-2003	1	Washer, Lock – Spring (M3)
	333-0438-05	1	120 Volt	11	822-3047	1	Screw, Machine – Pan Head (M3 x 20mm)
	333-0438-06	1	240 Volt				
2	232-3849	1	Bracket, Mounting – Heater	12	508-0228	1	Grommet
3	332-3024-14	2	Clamp, Loop	13	332-3023	1	Block, Terminal
4	822-3075	2	Screw, Machine – Slotted Pan Head (M4 x 16mm)	15	330-0142	1	Box, Terminal
				16	517-0021	1	Plug, Dot Button
5	856-0021	2	Washer – W/EIT (M4)	17	330-0141-01	1	Box Assy
6	860-2005	2	Nut, Hex (M4)			1	Gasket, Cover
7	850-2005	2	Washer, Lock – Spring (M5)			1	Cover, Box
8	860-2006	2	Nut, Hex (M5)				
9	800-2008	2	Screw, Cap – Hex Head (M5 x 16mm)				

\* – Available for failed units, models DQKB, DQKC, DQKD and DQKH. Not required for functioning units.



## Generator

Generator component parts cannot be ordered from Cummins Power Generation. Refer to the Newage nameplate and supply all available information. Contact your nearest Newage distributor for assistance in ordering component parts. For COMPLETE generator replacement use the 200-XXXX-XX Cummins Power Generation identification number listed below.

**Note:** Diode/Varister Kit (With 2 Varisters) – 0249-0798  
Newage Part Number – RSK6001

Cummins Power Generation Identification Number	Generator Model Number or Frame/Core
200-3095-01	LVSI804R1
200-3095-02	LVSI804S1
200-3095-04	LVSI804R1
200-3095-05	LVSI804S1
200-3095-06	LVSI804T1
200-3095-07	LVSI804R1
200-3095-08	LVSI804S1
200-3095-09	LVSI804T1
200-3095-16	LVSI804R1
200-3095-17	LVSI804S1
200-3095-19	LVSI804R1
200-3095-20	LVSI804S1
200-3095-21	LVSI804T1
200-3095-22	LVSI804R1
200-3095-23	LVSI804S1
200-3095-24	LVSI804T1
200-3117-04	MVSI804R1
200-3117-05	MVSI804S1
200-3117-06	MVSI804T1
200-3117-22	HVSI804R1
200-3117-23	HVSI804S1
200-3117-24	HVSI804T1
200-3117-31	HVSI804R1
200-3117-32	HVSI804S1
200-3117-33	HVSI804T1
200-3117-34	HVSI804R1
<b>Continued...</b>	

## Generator

Cummins Power Generation Identification Number	Generator Model Number or Frame/Core
<b>Continued...</b>	
200-3117-35	HVS1804S1
200-3117-37	HVS1804R1
200-3117-38	HVS1804S1
200-3117-39	HVS1804T1
200-3128-03	P7D
200-3128-04	P7E
200-3128-05	P7F
200-3128-06	P7G
200-3128-09	P7D
200-3128-10	P7E
200-3128-11	P7F
200-3128-12	P7G
200-3128-21	P7D
200-3128-22	P7E
200-3128-23	P7F
200-3128-24	P7G
200-3128-27	P7D
200-3128-28	P7E
200-3128-29	P7F
200-3128-30	P7G
200-3132-06	MV734WG
200-3132-08	MV734WH
200-3133-03	P7D
200-3133-04	P7E
200-3133-05	P7F
200-3133-06	P7G
200-3133-09	P7D
200-3133-10	P7E
<b>Continued...</b>	

## Generator

Cummins Power Generation Identification Number	Generator Model Number or Frame/Core
<b>Continued...</b>	
200-3133-11	P7F
200-3133-12	P7G
200-3133-21	P7D
200-3133-22	P7E
200-3133-23	P7F
200-3133-24	P7G
200-3133-27	P7D
200-3133-28	P7E
200-3133-29	P7F
200-3133-30	P7G
200-3134-01	LVSI804R1
200-3134-02	LVSI804S1
200-3134-04	LVSI804R1
200-3134-05	LVSI804S1
200-3134-06	LVSI804T1
200-3134-07	LVSI804R1
200-3134-08	LVSI804S1
200-3134-09	LVSI804T1
200-3134-16	LVSI804R1
200-3134-17	LVSI804S1
200-3134-19	LVSI804R1
200-3134-20	LVSI804S1
200-3134-21	LVSI804T1
200-3134-22	LVSI804R1
200-3134-23	LVSI804S1
200-3134-24	LVSI804T1

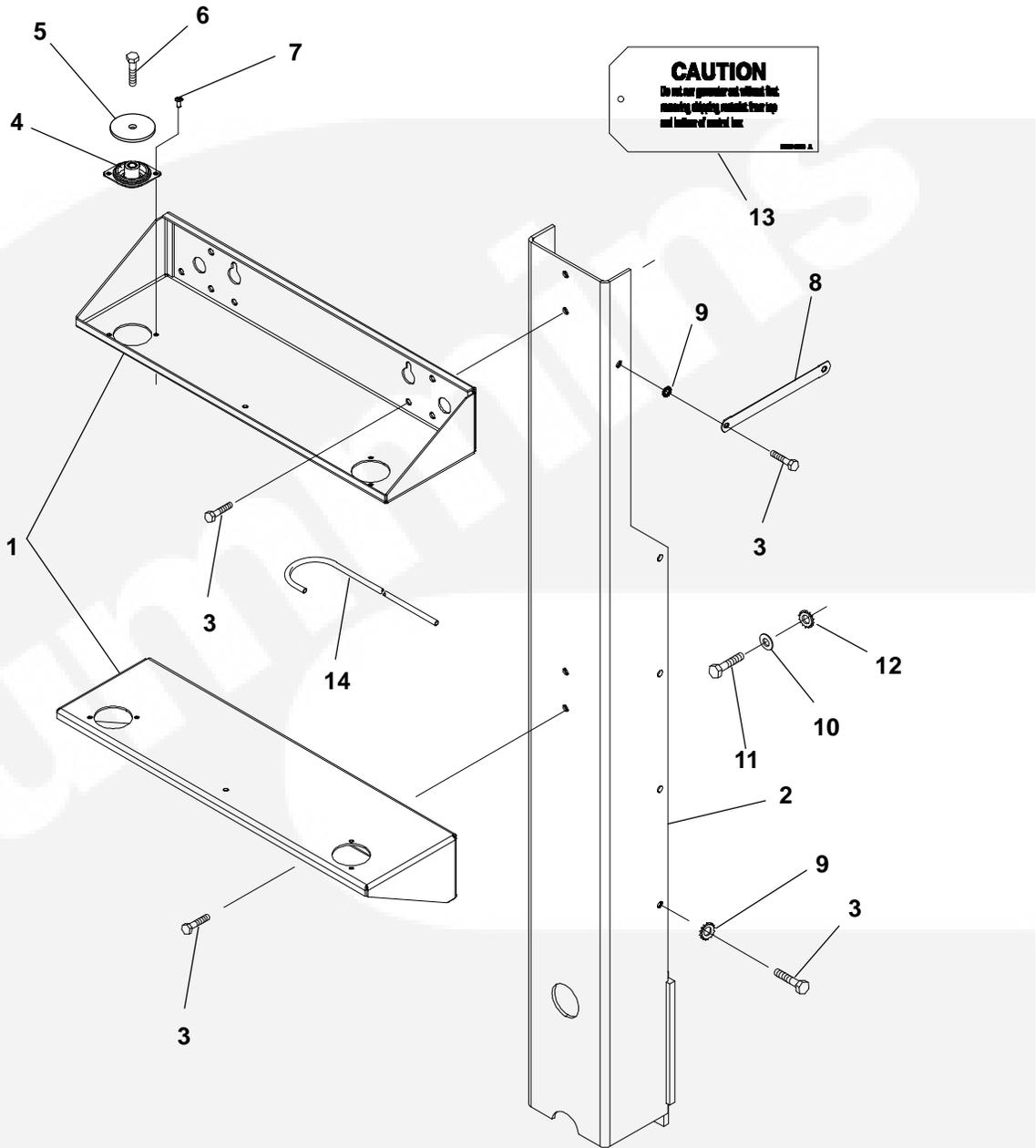
**NOTE:** From Field Flash Titled “Hardened Cartridge for Alternator Bearing UPDATE” Kit to replace a Standard or Hardened Cartridge. The new kit includes a new bearing and cartridge.

0541-1217 Alternator Kit for HC-7 or MV-7 or P7

0541-1218 Alternator Kit for Frame 8 Mark1

0541-1219 Alternator Kit for P80

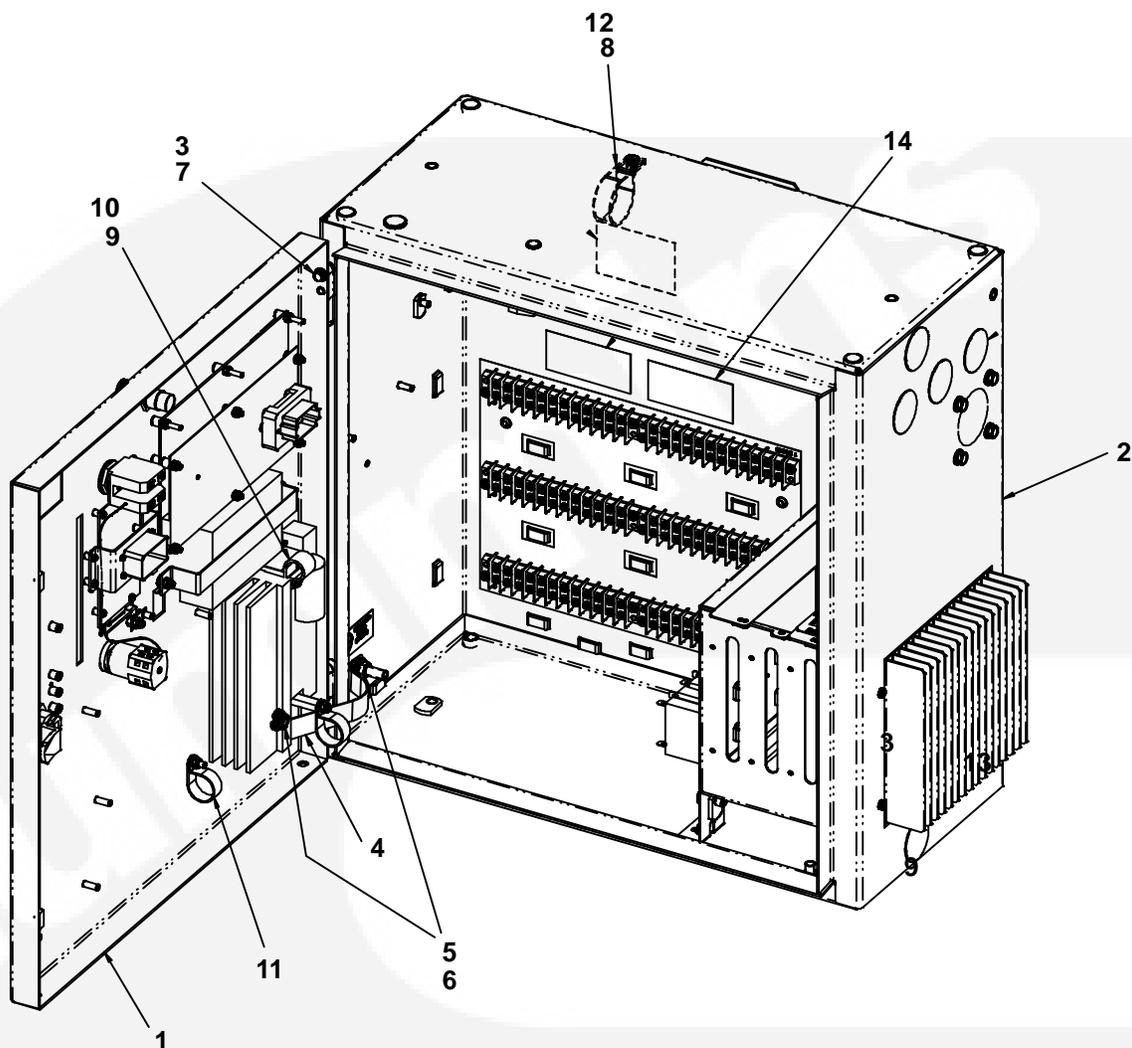
## Control Box Installation



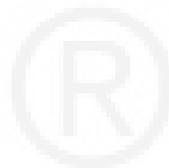
**CAUTION**  
 Do not use power tools without first  
 ensuring shipping material has been  
 and bottom of control box.

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5052-02	2	Bracket, Control	8	337-0049	1	Strap, Bond
2	319-5186-02	2	Bracket, Control	9	853-2008	2	Washer, Lock - W/ET (M8)
3	821-6003-02	10	Screw, Hex Head (M8 x 1.25 x 20)	10	526-0128	2	Washer, Flat
4	402-0666-01	4	Isolator, Vibration	11	800-3017-41	4	Screw, Cap - Hex Head (M10 x 1.5 x 45)
5	526-0324	4	Washer, Flat (3/8)	12	870-2056	4	Nut, Lock - Flange (M10 x 1.5)
6	815-0776	4	Screw, Hex - Flange Head (M8 x 1.25 x 45)	13	098-8186	1	Label, Caution
7	818-0231-02	8	Rivet, Pop	14	503-1418	2	Hose, Fuel

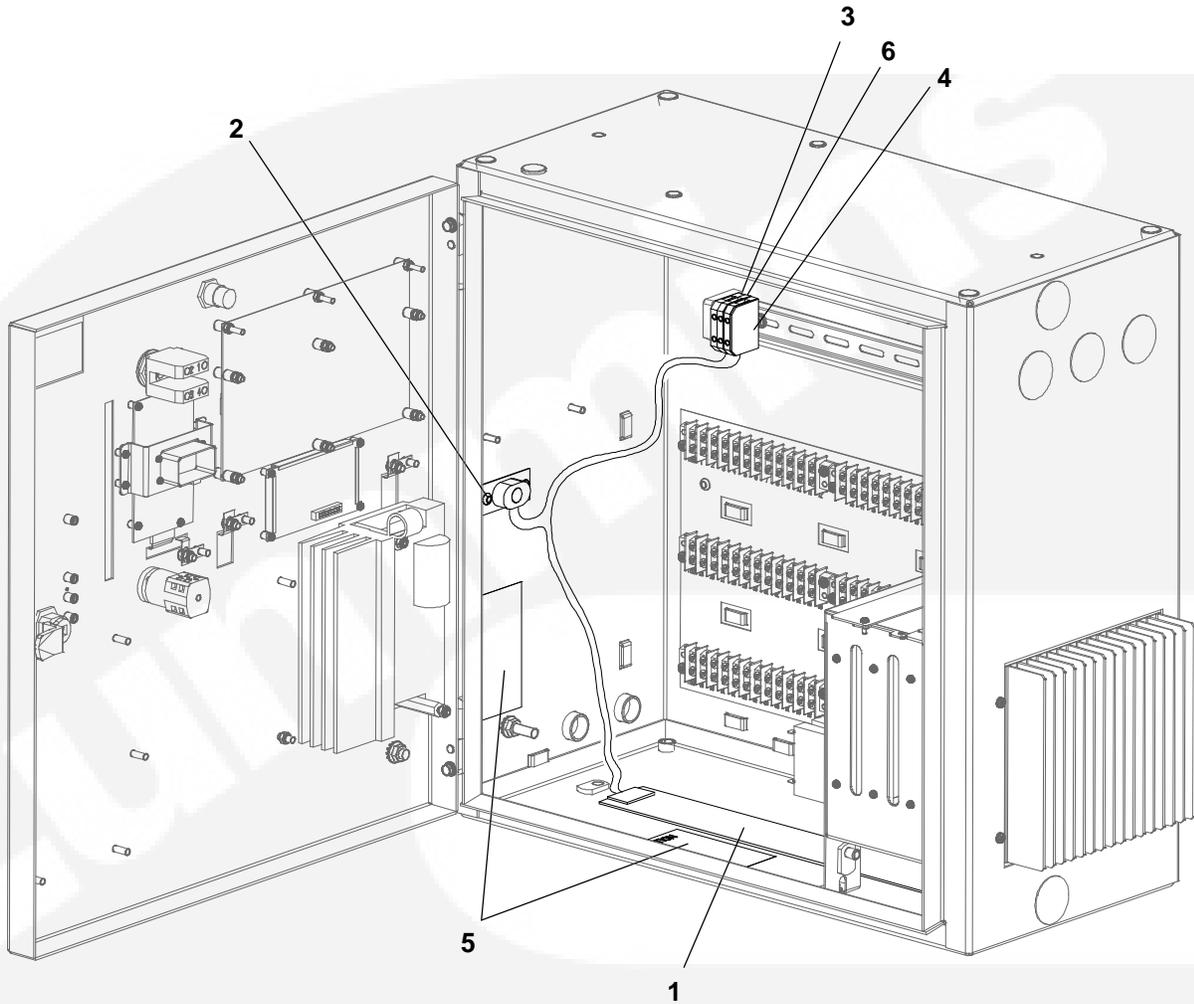
## Control Assembly



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-5759-01	1	Control Assy	9	332-0052	A/R	Tie, Cable
2	300-5758-02	2	Control Assy	10	332-0052	1	Clip, Wire
3	406-0810	2	Hinge	11	425-1799	2	Clamp
4	337-0049	1	Strap, Electrical	12	503-1950	1	Clip
5	853-2008	2	Washer, Lock	13	526-0115	2	Washer, Flat
6	870-2062	2	Nut, Flange Lock	14	098-8368	1	Label, Information
7	821-6001-01	4	Screw, Hex Head	15	526-0399-57	1	Washer, Flat
8	870-2062	4	Nut, Lock				



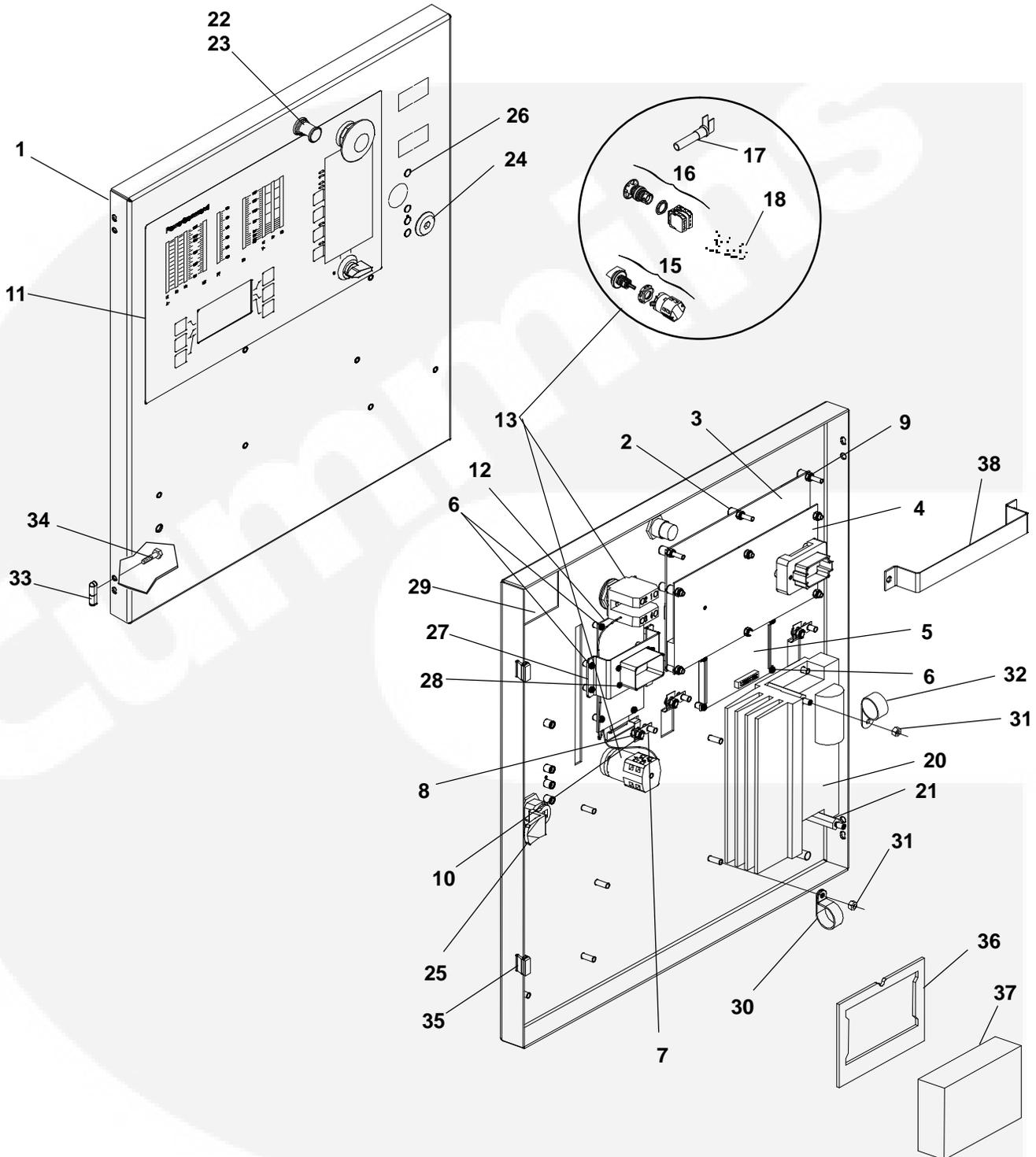
## Control Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater Assembly, Control - 150 Watt	3	332-3125-01	2	Block, Terminal
	333-0645-01	1	120 Volt	4	332-3126-01	1	Endplate, Terminal
	333-0645-02	1	240 Volt	5	098-6195	2	Label, Caution
2	818-1150-02	2	Rivet, Drive	6	332-4002	1	Block, Terminal - Ground



# Control Door

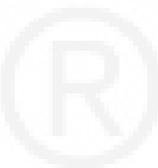


## Control Door

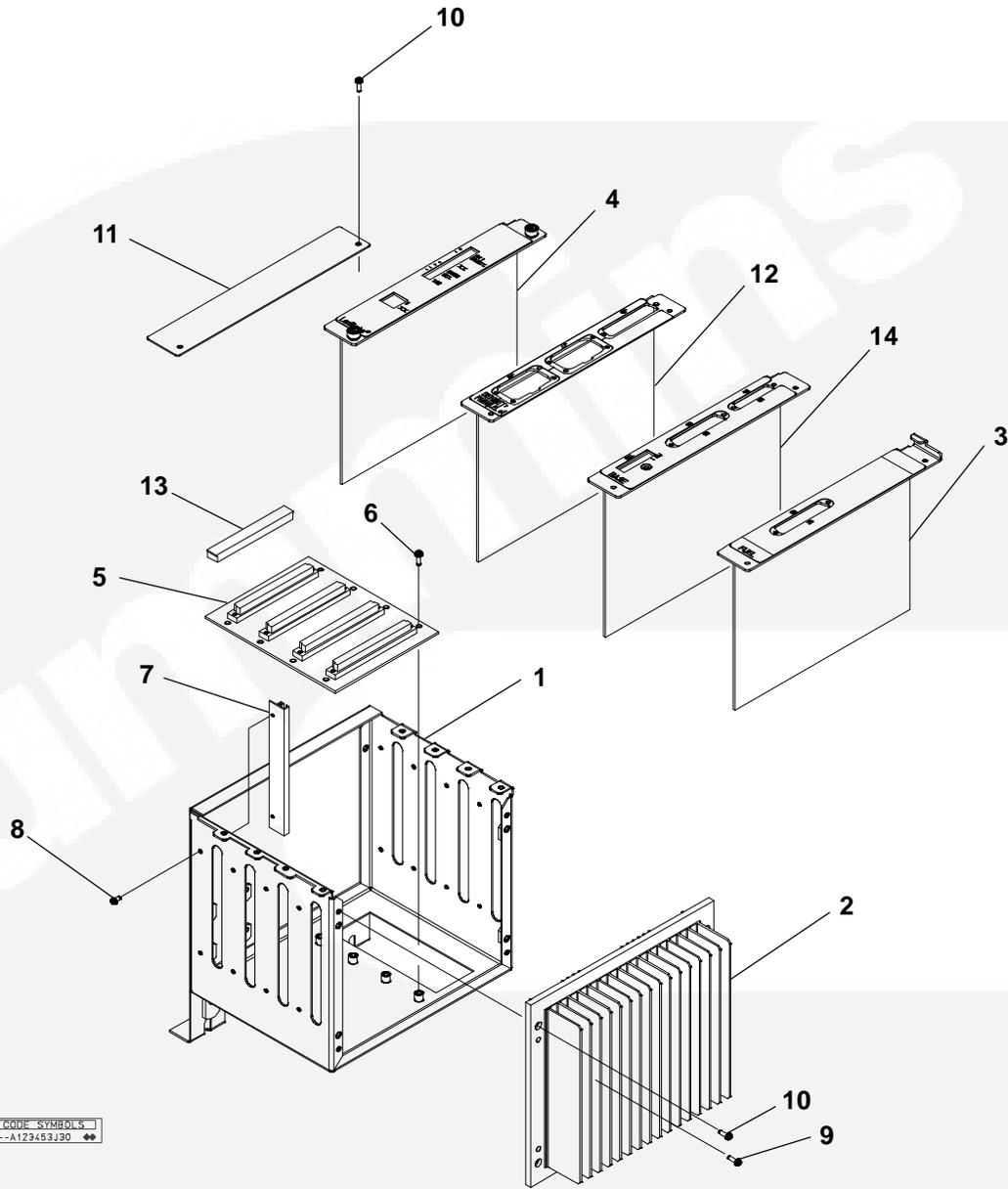
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5018-02	1	Door, Control Box	19	308-1085-01	1	# Switch, Selector – Switch Panel With Key (Not Illustrated)
2	332-1911	15	Spacer, LED	20	300-4306	1	Regulator, Auto Voltage
3	300-5180	1	Board, Printed Circuit – Bargraph	21	872-0019-01	2	Standoff
4	300-5179	1	Board, Printed Circuit – Operator Panel – Digital	22	322-0361	1	Light, Panel
5	326-0230	1	Display, Digital	23	322-0017	1	Lamp, Panel
6	823-0001-01	12	Screw, Pan Head – Thread Forming (M3 x 0.5 x 6)	24	406-0930	1	Latch, Door (1/4 Turn)
7	526-2303	1	Washer, Double Hole	25	406-0932-02	1	Latch, Cam (Single Point)
8	860-2006	3	Nut, Hex (M5 x .8)	26	322-0488	4	Lens, LED
9	870-2064-01	9	Nut, Nyloc (M4)	27	319-4918-02	1	Bracket, Printed Circuit Board
10	870-2062	3	Nut, Nylon – Lock (M5)	28	815-0796	4	Screw, Pan Head – Thread Cutting (4-24 x 5/16)
11	300-5685-01	1	Display, Control	29	098-6989	1	Label, Bar Code
12	300-5181	1	Board, Printed Circuit – Software Panel	30	425-1799	2	Clamp, Cable
13			Harness, Switch Panel	31	870-2062	4	Nut, Nylon – Lock (M5)
	338-3801	1	Switch Panel With Knob (Includes Parts Marked *)	32	332-0052	1	Clip, Wire
	338-3801-01	1	Switch Panel With Key (Includes Parts Marked #)	33	406-0810	2	Hinge, Block
14	323-1839	1	*# Connector – 6 Pin (Not Illustrated)	34	821-6001-01	4	Screw, Hex Head (M5 x 0.8 x 10)
15	308-1085	1	* Switch, Selector – Switch Panel With Knob	35	508-1186	2	Bumper
16	308-0999	1	*# Switch, Emergency Stop	36	405-7779	1	Gasket, Enclosure
17	323-1688	6	*# Socket, Terminal	37	319-5194	1	Cover, Printed Circuit Board
18	332-3491-01	6	*# Terminal, Wire Pin	38	319-5193	1	Bracket, Control

\* – Included in 338-3801 Wiring Harness

# – Included in 338-3801-01 Wiring Harness

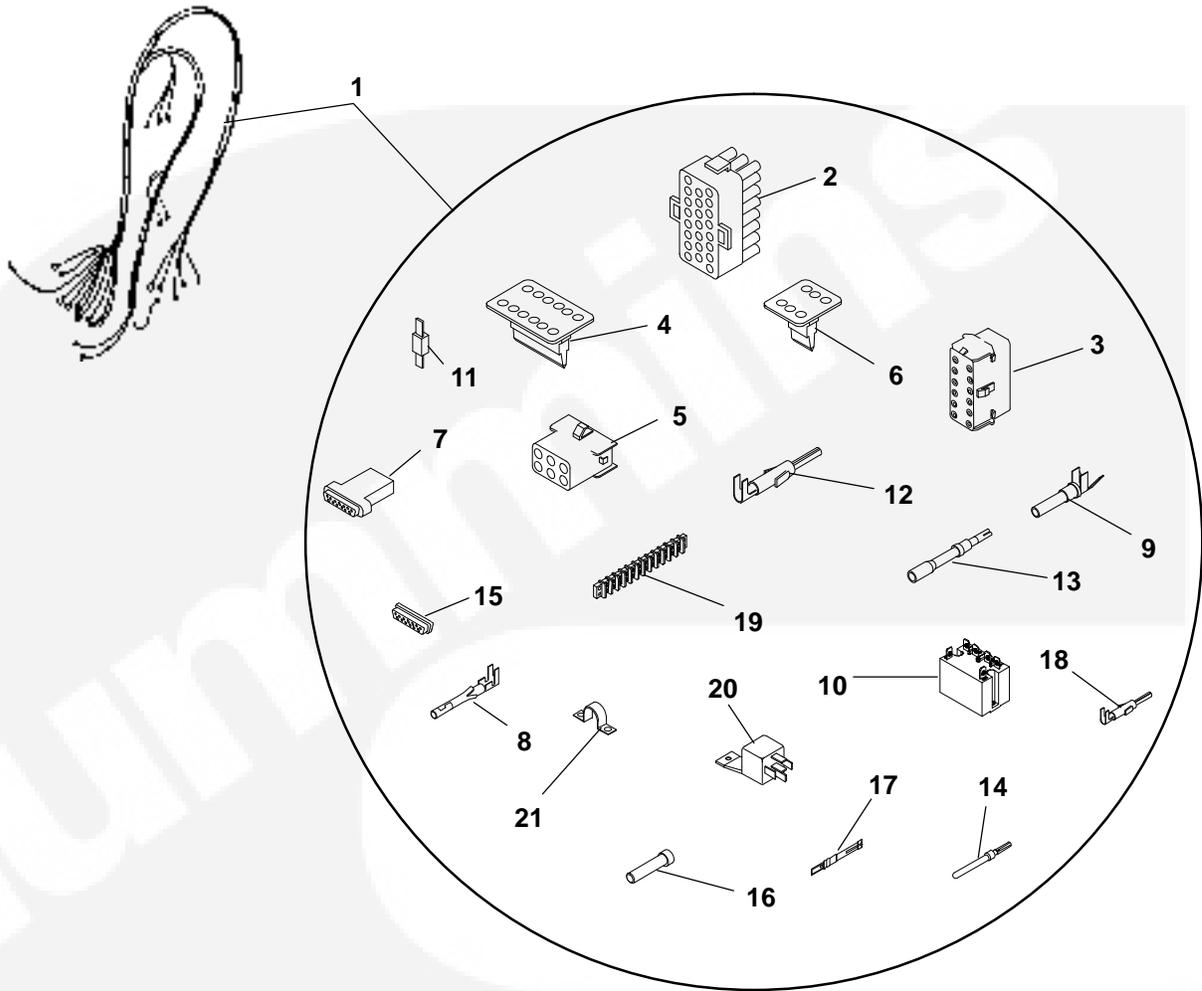


# Card Cage



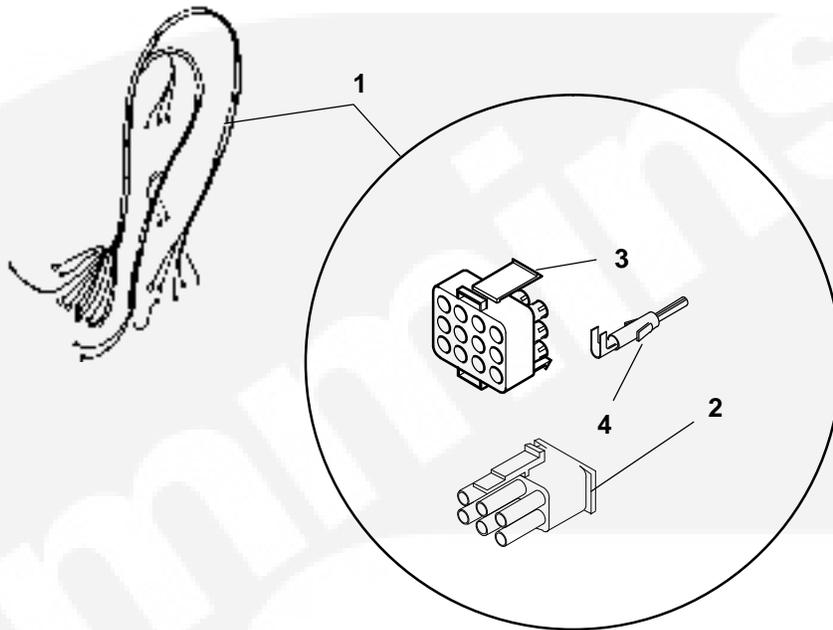
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5096-02	1	Frame, Cabinet	10	815-0947	12	Screw (M3 x 10)
2	363-0183	1	Heatsink, Genset	11	319-5079	A/R	Cover, Control - Blank
3	300-4970	1	Board, Printed Circuit - Fuel	12			Board, Printed Circuit - Parallel Genset
4	327-1387	1	Board, Printed Circuit - NCM		327-1376-01	1	Full Feature (Marked Genset/Parallel #2)
5	327-1390	1	Board, Printed Circuit - Backplane		327-1376-02	1	Depop Feature (Marked Genset/Parallel #1)
6	815-0948	8	Screw, Torq (M4 x 6)	13	323-1848	1	Cover, 96-Pin Header
7			Guide, Metal Guide	14	327-1418	1	Board, Printed Circuit - Genset Base
	406-0916	4	Left Side				
	406-0917	4	Right Side				
8	815-0949	16	Screw (4-40 x 1/4)				
9	823-0002-04	8	Screw, Pan Head - Torx - Thread Forming (M4 x 0.7 x 12)				

## Wiring Harness Control

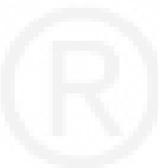


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4302	1	Harness, Control (Includes Parts Listed Below)	9	323-1492	27	Socket, Contact
2			Plug, Connector (23 Place)	10	307-2968-04	2	Relay, Power (24 Volt) (K14, K15)
	323-1605-01	2	Colored Black (23)	11	357-0030	1	Rectifier, Silicon
	323-1605-03	1	Colored Grey (31)	12	323-1199	5	Pin, Contact
	323-1605-04	1	Colored Blue (07)	13	323-1835-02	4	Socket, Contact
3	323-1582	1	Plug, Connector (12 Place)	14	323-1847-01	4	Pin, Contact
4	323-1583	1	Wedge (12 Place)	15			Grommet
5	323-1623	2	Plug, Connector (6 Place) (30, Inline D)		323-1843	1	50 Place
6	323-1624	2	Wedge (6 Place)		323-1845	1	25 Place
7			Contact, Connector	16	323-1591	2	Plug, Seal
	323-1841	1	9 Place	17	323-1835-01	54	Contact, Pin
	323-1836	1	25 Place	18	323-1491	4	Terminal, Pin
	323-1837	1	50 Place	19	332-0607	7	Block, Terminal - 12 Place
8	323-1614-01	74	Pin, Contact	20	307-2817-02	1	Relay (K20)
				21	332-1043	22	Jumper, Terminal

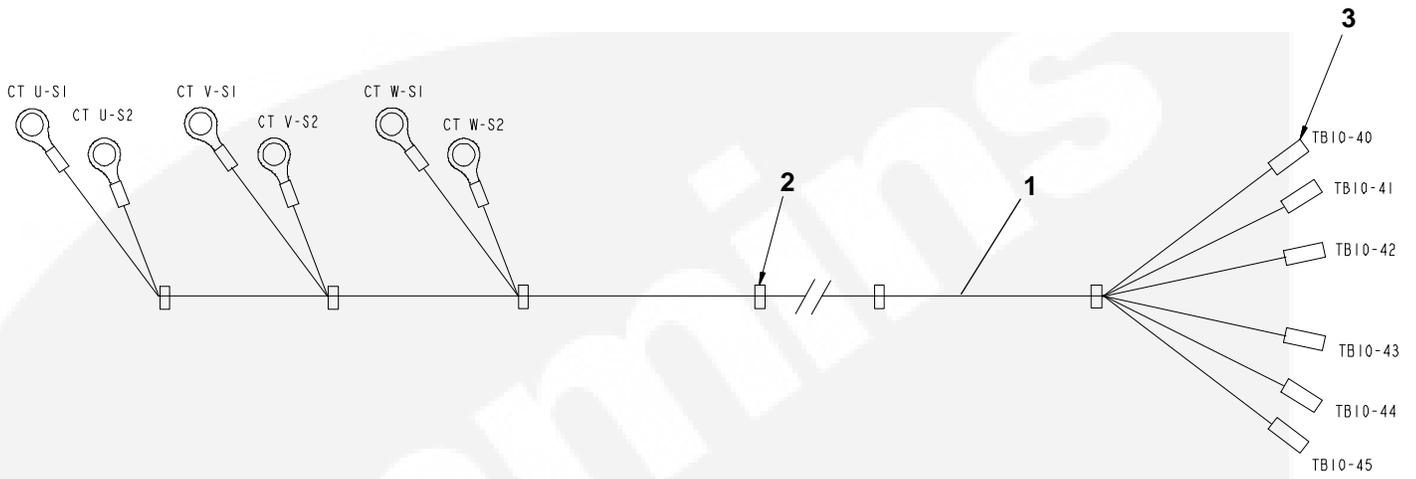
## Wiring Harness AC



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, AC (Includes Parts Listed Below)	2	323-1643-01	1	Housing, Plug and Cap
	338-4317	1	Frame 7, 6 and 5 LV Alternators	3	323-1644-03	1	Housing, Plug and Cap
	338-4316	1	Frame 8 Alternators	4	323-1648	15	Socket, Terminal

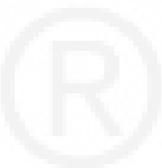


## Wiring Harness AC (CT)

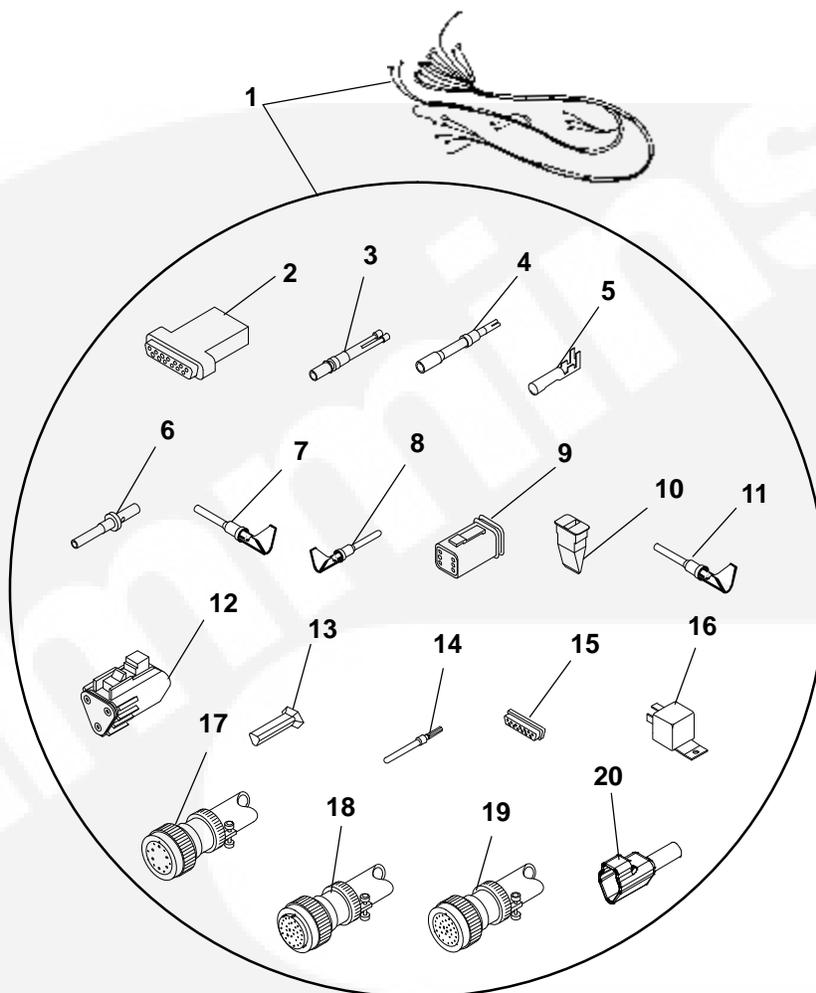


AC HARNESS - METERING CTS (P80)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-5072	1	Harness, AC (Includes Parts	3	332-3491-01	6	Terminal, Wire Pin
2	332-3388	4	Tie, Cable				

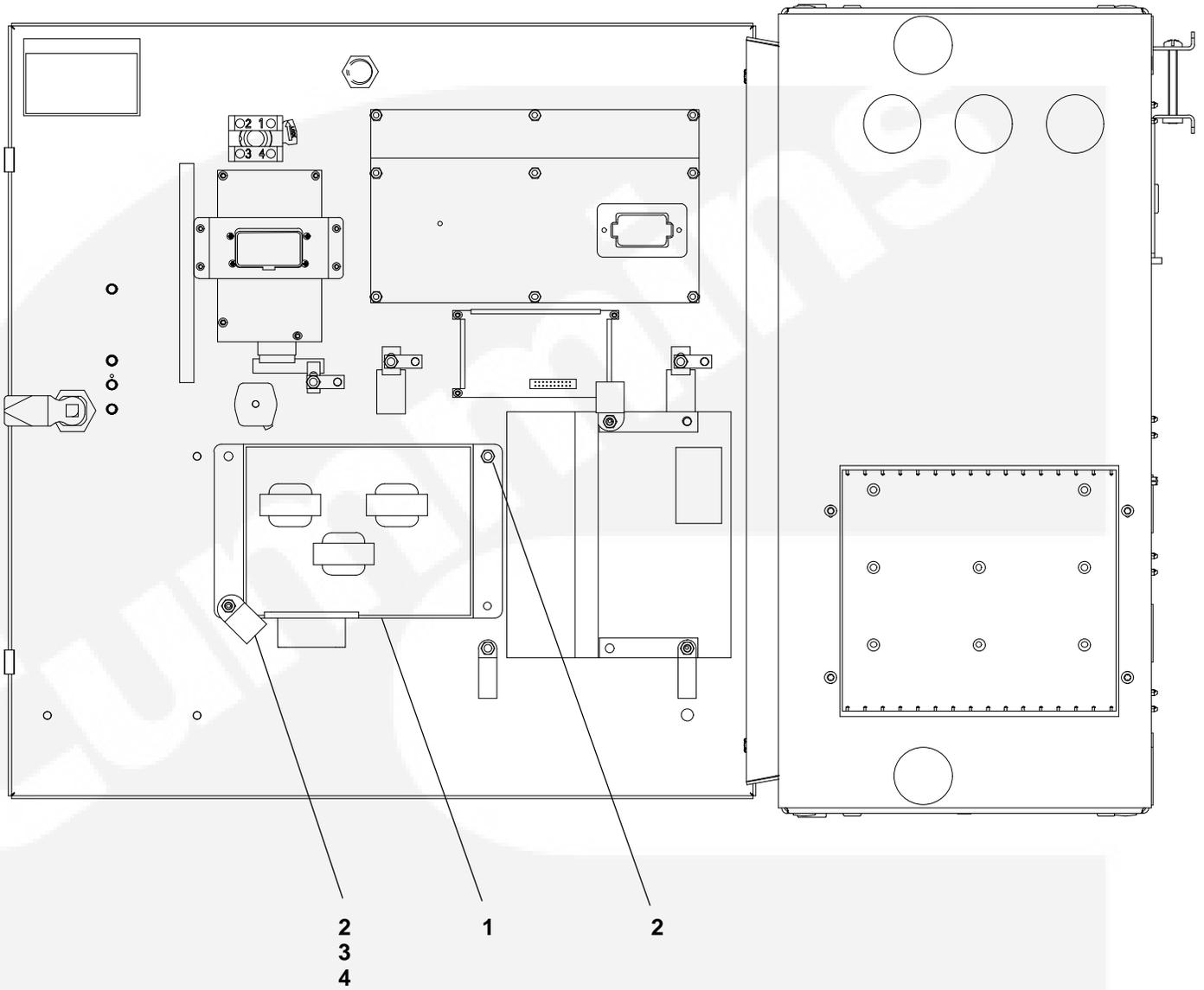


## Wiring Harness Engine Extension



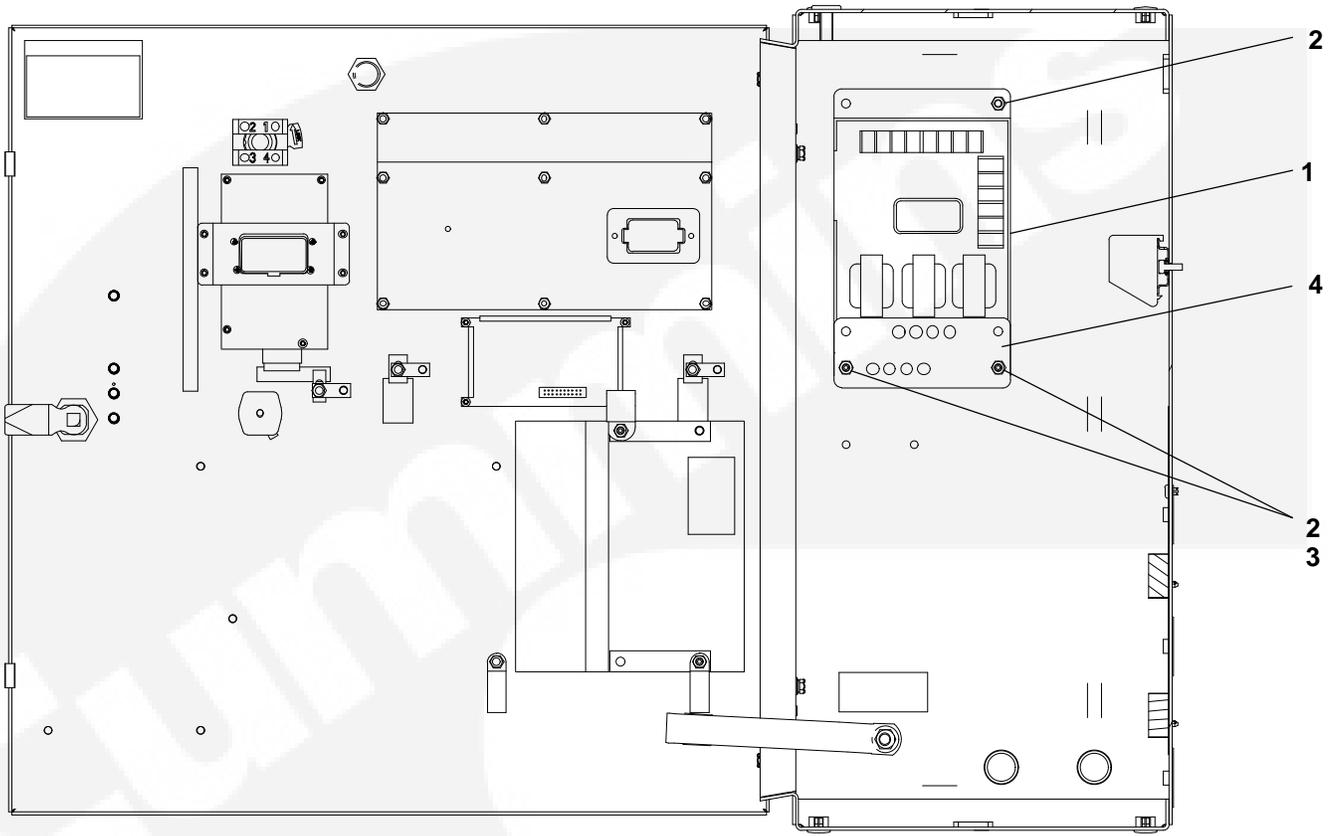
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4314		Harness, Wiring – Engine Extension (Includes All Parts Listed Below)	8	323-1834	42	Pin, Contact
2	323-1841	1	Connector, Contact 9 Place (Includes Screws and Locknuts) (Connector 13)	9	323-1625	1	Housing, Connector (6 Place) (Inline D)
	323-1837	2	50 Place (Includes Backshell and Hardware) (Connector 2 and 5)	10	323-1626	1	Wedge (Used With 323-1625 Housing)
3	323-1835-01	54	Socket, Contact (5/8" Long)	11	323-1492	19	Socket, Contact
4	323-1835-02	24	Socket, Contact (7/8" Long)	12	323-1493	1	Plug, Connector (3 Place)
5	323-1752	30	Socket, Contact	13	323-1503	1	Wedge
6	323-1838	6	Pin, Contact	14	323-1847-01	9	Pin, Connector
7	323-1491	58	Pin, Contact (Used With 323-1625 Housing)	15	323-1843	2	Grommet
				16	307-2817-02	1	Relay
				17	323-2052	1	Connector, Plug (19 Pin)
				18	323-2051	1	Connector, Plug (33 Socket)
				19	323-2050	1	Connector, Plug (33 Pin)
				20	323-1888	1	Connector, Boot

# PT/CT Module

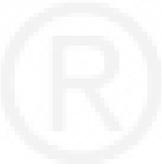


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Printed Circuit – PT/CT Module	2	870-2062	2	Nut, Nylon – Lock (M5)
	300-4308-01	1	120 Volts	3	872-0019-01	1	Standoff
	300-4308-02	1	240 Volts	4	332-0052	1	Clip, Wire
	300-4308-03	1	346 Volts				

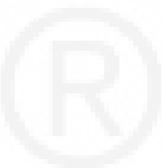
# Bus PT Module



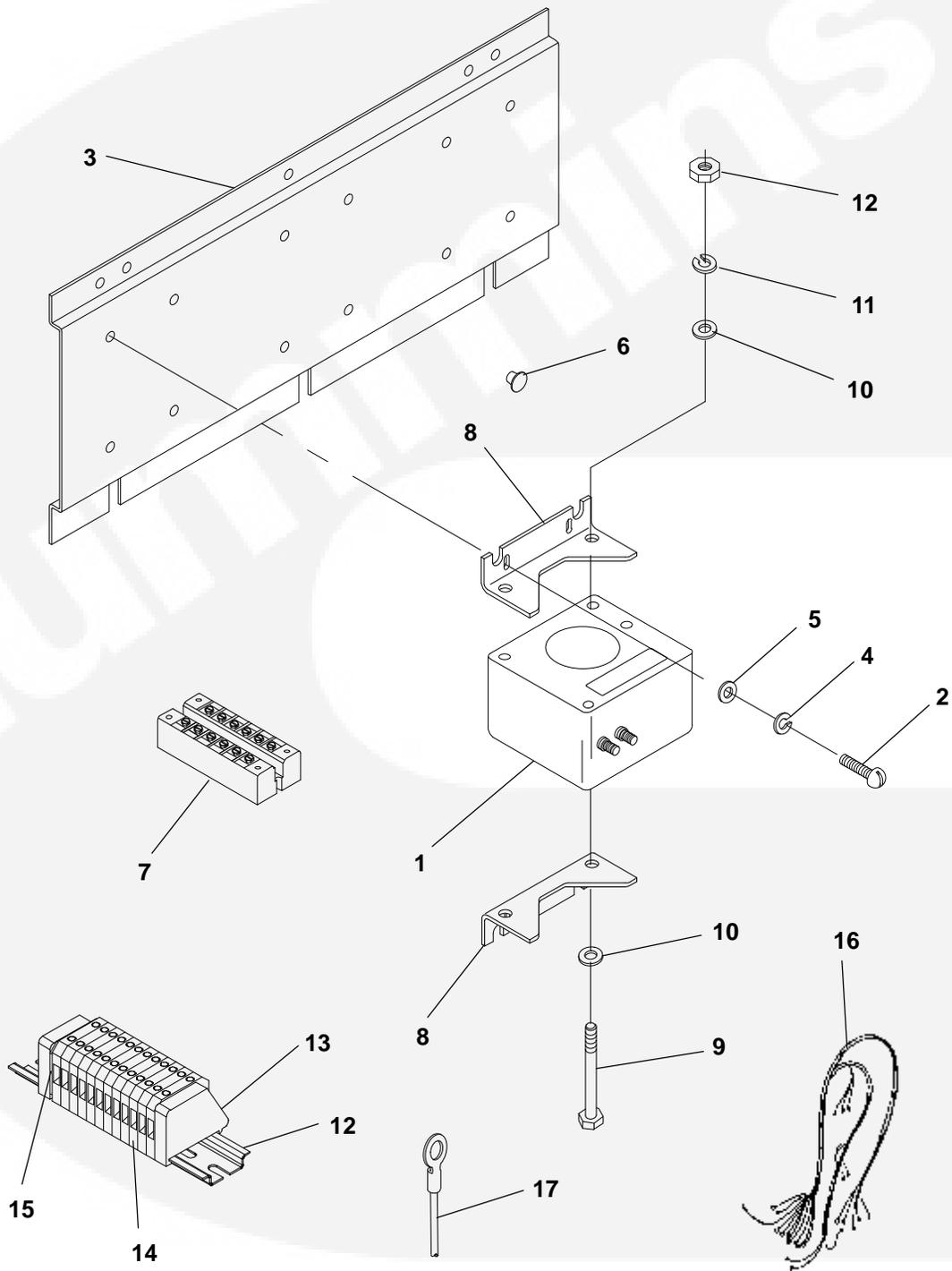
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Printed Circuit – Bus PT Module	2	870-2062	3	Nut, Nylon – Lock (M5)
	300-4985-01	1	120 Volts	3	872-0019-01	2	Standoff
	300-4985-02	1	240 Volts	4	319-5060	1	Guard, Electrical
	300-4985-03	1	346 Volts				
	300-4985-04	1	60 Volts				



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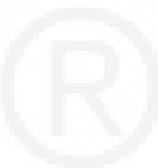


# Differential Current Transformer DQKB, DQKC

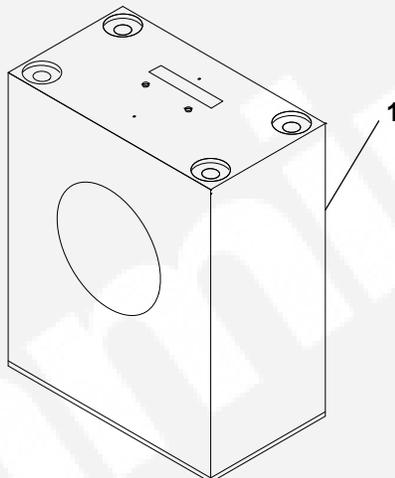


## Differential Current Transformer DQKB, DQKC

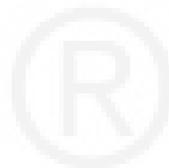
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1945-06	3	Transformer, Current – Ratio 400/5 (CT1,CT2,CT3)	9	526-0022	12	Washer, Flat (5/16")
2	813-0098	12	Screw, Machine – Round Head (#10-32 x 3/8")	10	850-0045	6	Washer, Lock – Spring (5/16")
3	319-1265	1	Bracket, Current Transformer	11	862-0015	6	Nut, Hex (5/16-18)
4	850-0030	12	Washer, Lock – Spring (#10)	12	332-2879-02	1	Rail, Terminal
5	526-0008	12	Washer, Flat (#10)	13	332-2878	2	Block, Terminal
6	517-0090	A/R	Plug, Hole (Fits 5/16" Hole) (Quantity Used As Required)	14	332-3125-01	6	Block, Terminal
7	319-3297	6	Bracket, Foot	15	332-3126-01	1	Block, Terminal
8	800-0039	6	Screw, Cap – Hex Head (5/16-18 x 3-1/2")	16	338-4475	1	Harness, Transfer – Differential
				17	226-4696	3	Lead – GND



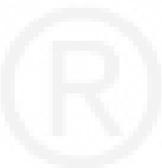
## Current Transformer DQKH Spec A



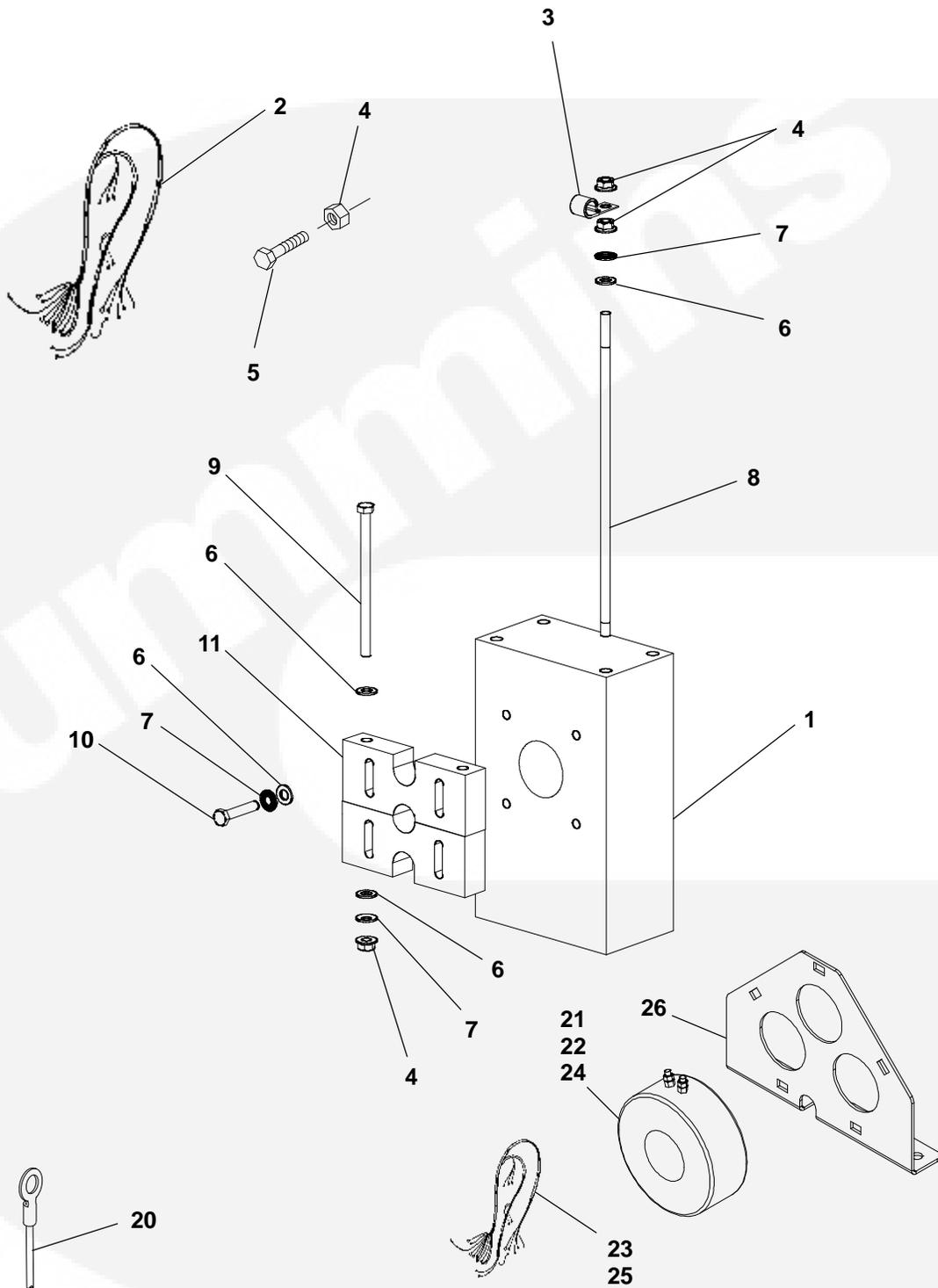
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current				<b>P80 MV/HV Alternators</b>
			<b>P80 LV Alternators</b>				Ratio 1000/1
	315-1609-01	A/R	Ratio 8000/1		315-1608-02	A/R	Ratio 800/1
	315-1609-02	A/R	Ratio 7000/1		315-1608-03	A/R	Ratio 500/1
	315-1609-03	A/R	Ratio 6000/1		315-1608-04	A/R	Ratio 300/1
	315-1616-01	A/R	Ratio 5000/5		315-1608-06	A/R	Ratio 250/1
	315-1616-02	A/R	Ratio 4000/5		315-1608-07	A/R	Ratio 700/5
	315-1616-04	A/R	Ratio 3000/5		315-1617-02	A/R	Ratio 600/5
					315-1617-03	A/R	Ratio 500/5
					315-1617-04	A/R	Ratio 300/5
					315-1617-06	A/R	Ratio 300/5
					315-1617-08	A/R	Ratio 200/5
					315-1617-09	A/R	Ratio 150/5
							<b>P6/P7 Alternators</b>
					315-1610-01	A/R	Ratio 8000/1
					315-1610-02	A/R	Ratio 7000/1
					315-1610-06	A/R	Ratio 3500/1
					315-1619-01	A/R	Ratio 4000/5 or 8000/1
					315-1619-03	A/R	Ratio 3000/5 or 6000/1
					315-1618-01	A/R	Ratio 4000/5
					315-1618-03	A/R	Ratio 3000/5



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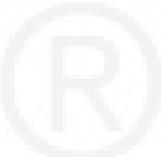


# Current Transformer DQKB, DQKC, DQKD, DQKH Begin Spec B

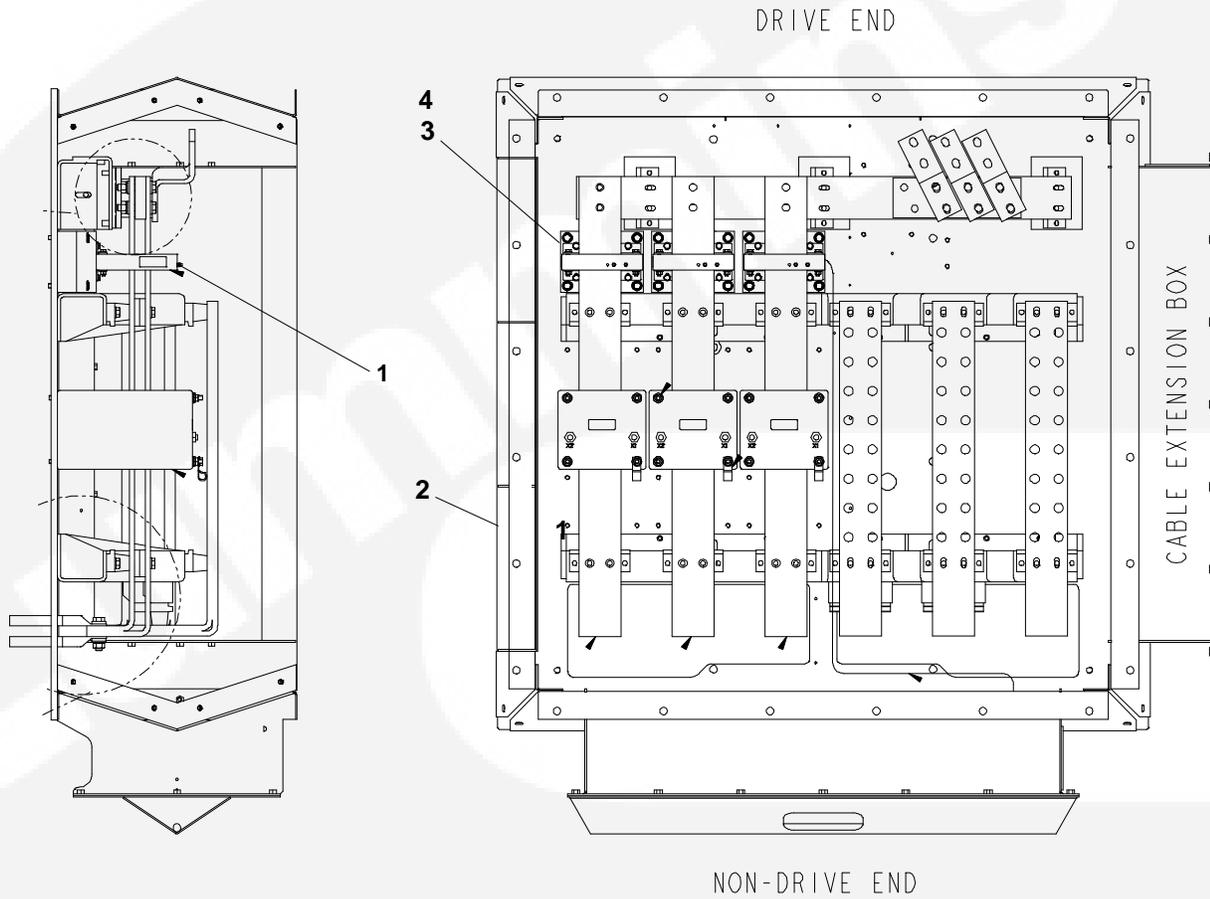


**Current Transformer**  
**DQKB, DQKC, DQKD, DQKH Begin Spec B**

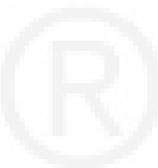
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current	2			Harness, AC
			<b>P80 LV Alternators</b>		338-4470	1	Metering CTS
	315-1609-01	A/R	Ratio 8000/1		338-4471	1	Differential CTS
	315-1609-02	A/R	Ratio 7000/1	3	518-0515	5	Clip, Wire
	315-1609-03	A/R	Ratio 6000/1	4	870-2065-03	A/R	Nut, Hex - Flange
	315-1609-04	A/R	Ratio 5000/1	5	821-6003-02	A/R	Screw, Hex Head (M8 x 1.25 x 20)
	315-1616-01	A/R	Ratio 5000/5				
	315-1616-02	A/R	Ratio 4000/5	6	526-0399-60	A/R	Washer, Flat
	315-1616-03	A/R	Ratio 3500/5	7	851-0048-01	A/R	Washer, Belleville
	315-1616-04	A/R	Ratio 3000/5	8	520-2651-01	A/R	Stud (M8 x 1.25)
	315-1616-05	A/R	Ratio 6000/5	9	800-2075	A/R	Screw, Cap - Hex Head (M8 x 1.25 x 130)
			<b>P80 MV/HV Alternators</b>	10	800-2061	A/R	Screw, Cap - Hex Head (M8 x 1.25 x 40)
	315-1608-02	A/R	Ratio 1000/1	11	332-4043	A/R	Clamp, Cable
	315-1608-03	A/R	Ratio 440/1	12	332-4044	3	Jumper, Terminal (Not Illustrated)
	315-1608-04	A/R	Ratio 500/1				
	315-1608-05	A/R	Ratio 400/1	13	332-2879-02	1	Rail, Terminal
	315-1608-06	A/R	Ratio 300/1	14	332-2878	2	Block, Terminal
	315-1608-07	A/R	Ratio 250/1	15	332-3125-01	12	Block, Terminal
	315-1617-01	A/R	Ratio 800/5	16	332-3126-01	1	Block, Terminal
	315-1617-02	A/R	Ratio 700/5	17	821-6001-03	2	Screw, Hex Head
	315-1617-03	A/R	Ratio 600/5	18	850-0114-52	2	Washer, Lock
	315-1617-04	A/R	Ratio 500/5	19	862-0026-53	2	Nut, Hex
	315-1617-05	A/R	Ratio 400/5	20	226-4696	6	Lead - Ground
	315-1617-06	A/R	Ratio 300/5	21	302-2058-31	3	Transformer, Current - Ratio 6250/1 - P7 Alternators, UL2200 - Metering CTS
	315-1617-07	A/R	Ratio 250/5				
	315-1617-08	A/R	Ratio 200/5	22	302-2058-32	3	Transformer, Current - Ratio 5750/1 - P7 Alternators, UL2200 - Metering CTS
	315-1617-09	A/R	Ratio 150/5				
	315-1617-10	A/R	Ratio 120/5				
			<b>P7 Alternators</b>	23	338-4463-02	1	Harness, AC - Used with Item 21
	315-1610-01	A/R	Ratio 8000/1				
	315-1610-02	A/R	Ratio 7000/1	24	302-2058-36	3	Transformer, Current - Ratio 670/1 - P7 Alternators, UL2200 - Metering CTS
	315-1610-03	A/R	Ratio 6000/1				
	315-1610-04	A/R	Ratio 5000/1				
	315-1610-06	A/R	Ratio 3500/1	25	338-4494	1	Harness, AC - Used with Item 23
	315-1619-01	A/R	Ratio 4000/5 or 8000/1				
	315-1619-03	A/R	Ratio 3000/5 or 6000/1	26	319-5487-02	1	Base, Transformer
	315-1618-01	A/R	Ratio 4000/5				
	315-1618-03	A/R	Ratio 3000/5				
	315-1640-01	A/R	Ratio 5000/5				
	315-1618-05	A/R	Ratio 5000/5				
	315-1640-02	A/R	Ratio 4000/5				
	315-1640-03	A/R	Ratio 5000/5				
	315-1640-04	A/R	Ratio 4000/5				
	315-1618-01	A/R	Ratio 4000/5				
	315-1640-05	A/R	Ratio 3500/5				
	315-1618-02	A/R	Ratio 3500/5				
	315-1640-06	A/R	Ratio 3500/5				
	315-1640-07	A/R	Ratio 3000/5				
	315-1618-03	A/R	Ratio 3000/5				



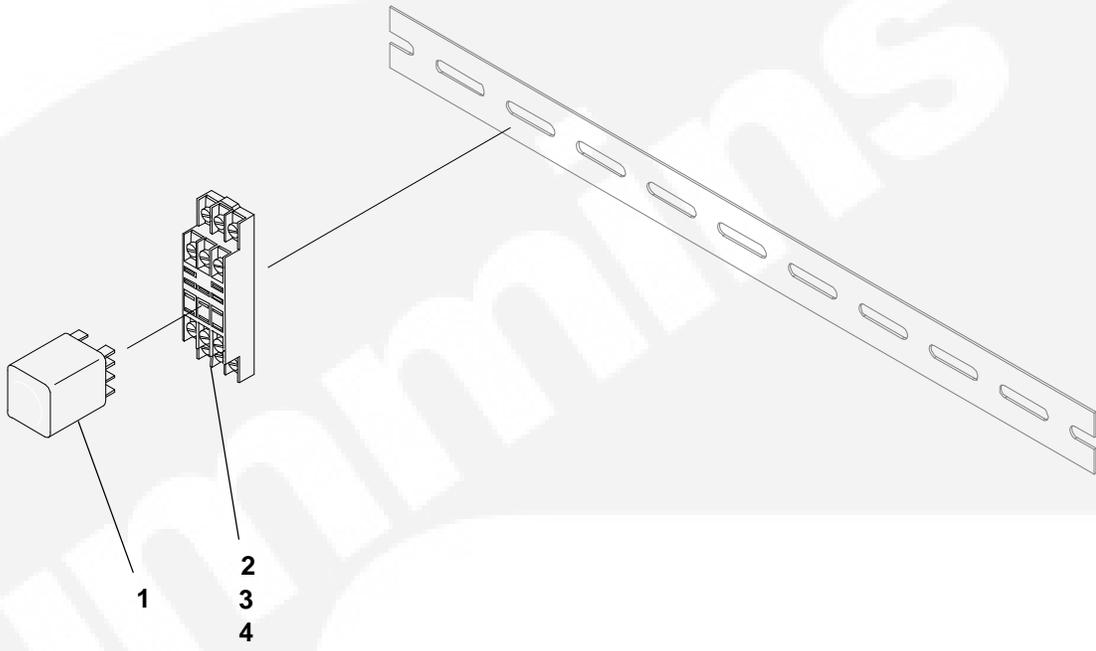
## Differential Current Transformer DQLA, DQLB



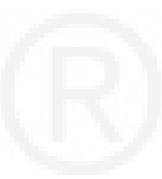
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current Support				
	315-1673	3	Transformer, Current Support				
	315-1674	3	Transformer, Current Support				
2	300-5951-02	1	Panel, Control				
3	306-5320-02	2	Shield, Bus				
4	306-5319-02	2	Shield, Bus				



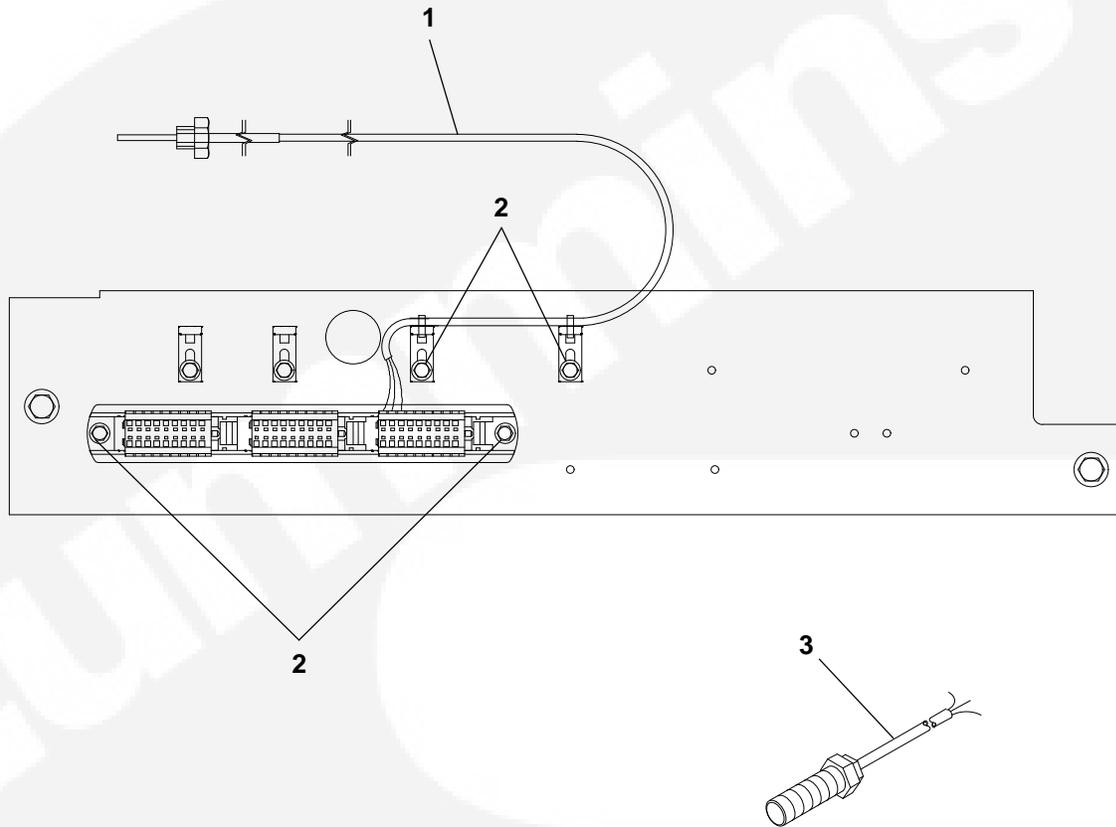
## Customer Relays



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Relay (24 Volt)	2			Socket, Relay
	307-1056-01	1	Alarm Relay (K16)		323-1410-01	1	Alarm Relay
	307-1056-01	3	Run Relay (K11,12,13)		323-1410-01	3	Run Relay
				3	226-4883-04	1	Lead
				4	226-4883-05	1	Lead

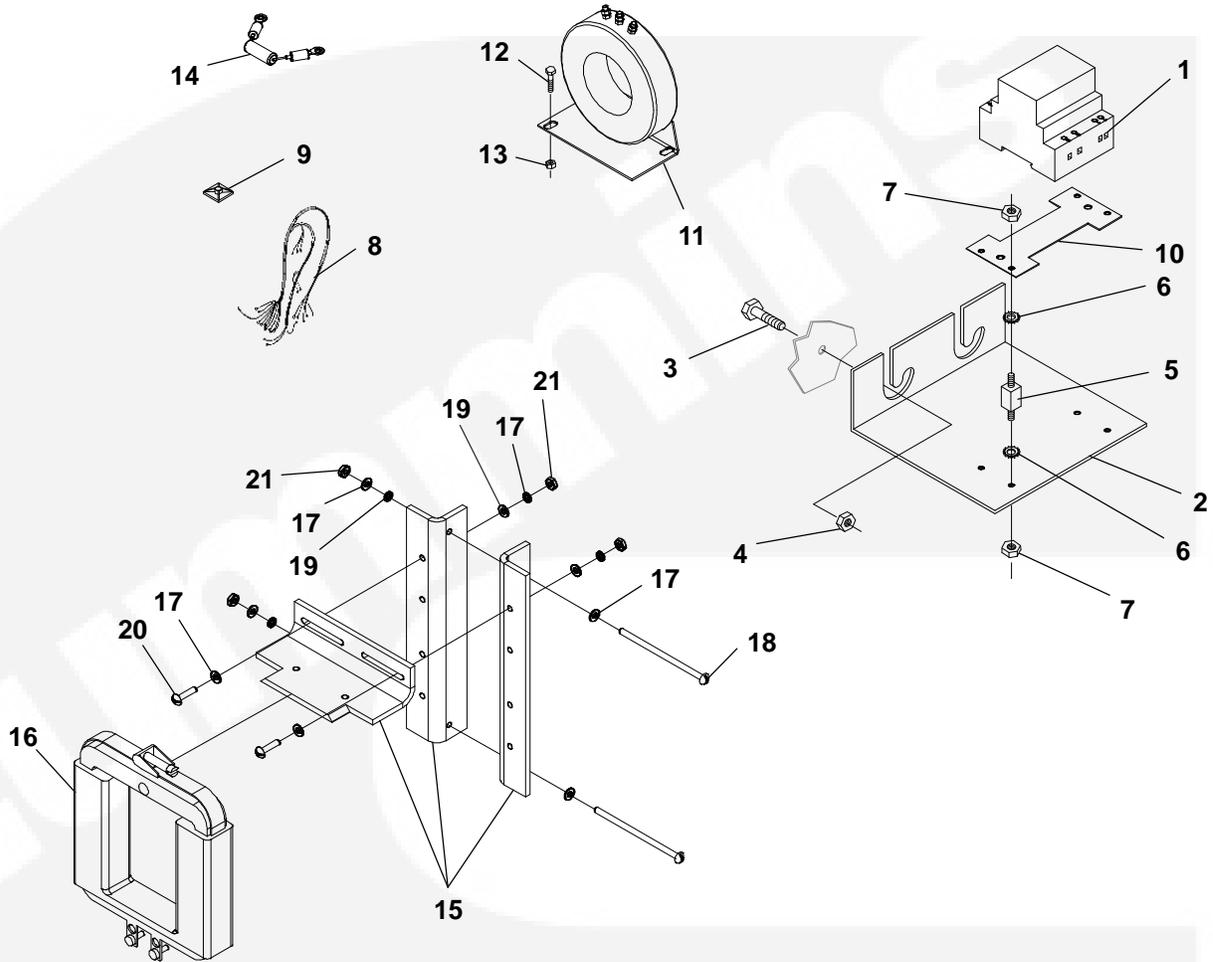


## Resistive Temperature Detectors



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Detectors, Resistive Detectors - Package - P7	2			Screw, Cap - Hex Head - P7
	179-3696-02	1	Without Mounting Plate		821-6001-02	2	Without Mounting Plate
	179-3696-02	1	With Mounting Plate		821-6001-02	4	With Mounting Plate
				3	193-0458-02	1	Detector, Temperature - Frame
						8	

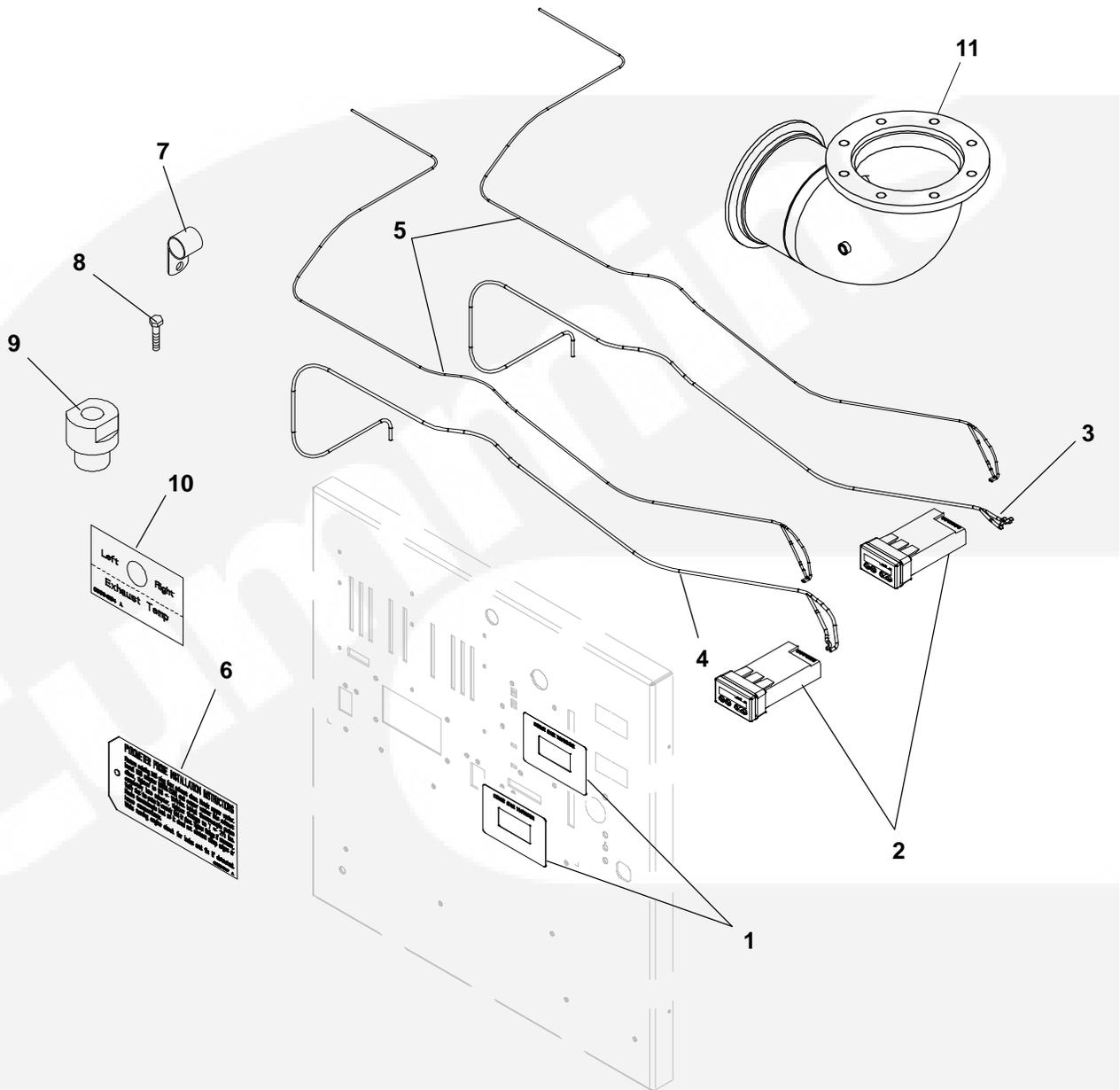
## Ground Fault Relay



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

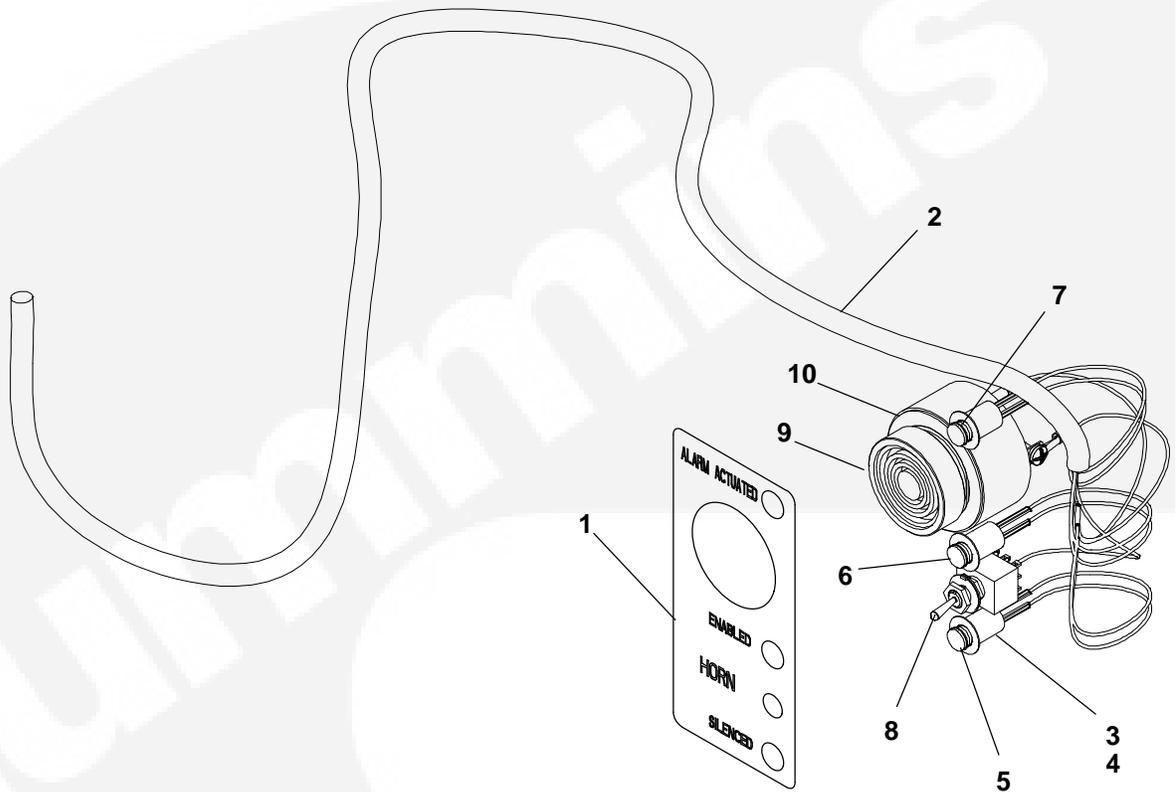
\* Used With 3 Pole Non-Separately Derived Transfer Switch

## Pyrometer DQKB, DQKC, DQKD, DQKH Begin Spec B



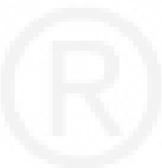
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-7720-01	2	Label, Exhaust - Pyrometer	6	098-8157	3	Label, Instruction
2	300-5796	2	Pyrometer, Exhaust	7	518-0350	9	Clamp
3	338-4340-01	1	Harness, Meter - Pyrometer (Labeled)	8	821-6003-01	9	Screw
4	338-4340-02	1	Harness, Meter - Pyrometer (Labeled)	9	505-2138	2	Adapter, Pipe (1/8 x M16)
5	193-0493-01	2	Sender, Temperature	10	098-8184	1	Label, Instruction (Switch)
				11	155-4529	1	Elbow, Exhaust (Outlet)

**Audible Alarm Module**  
**DQKB, DQKC, DQKD, DQKH Begin Spec B**

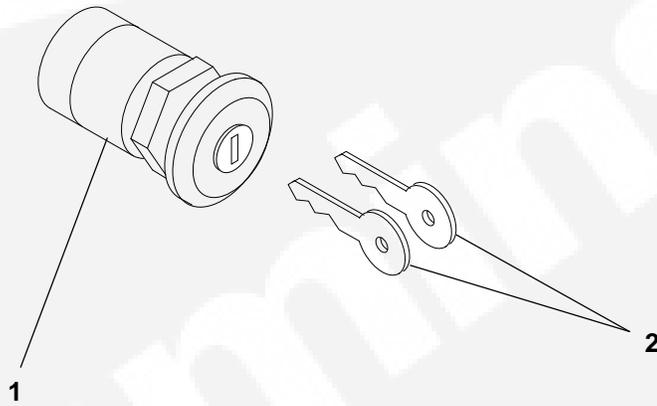


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-7719-01	1	Label, Alarm	6	322-0493-04	1	Lens, LED (Green)
2	338-4351	1	Harness, Alarm (Includes the Following Parts)	7	322-0493-06	1	Lens, LED (Red)
3	323-1899-01	3	Connector, LED	8	308-1105	1	Switch, Toggle
4	322-0491	3	Lamp, LED - High Intensity	9	333-0654	1	Alarm, Audible
5	322-0493-05	1	Lens, LED (Amber)	10	895-0401	1	Gasket, Audible Alarm

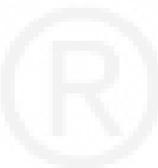
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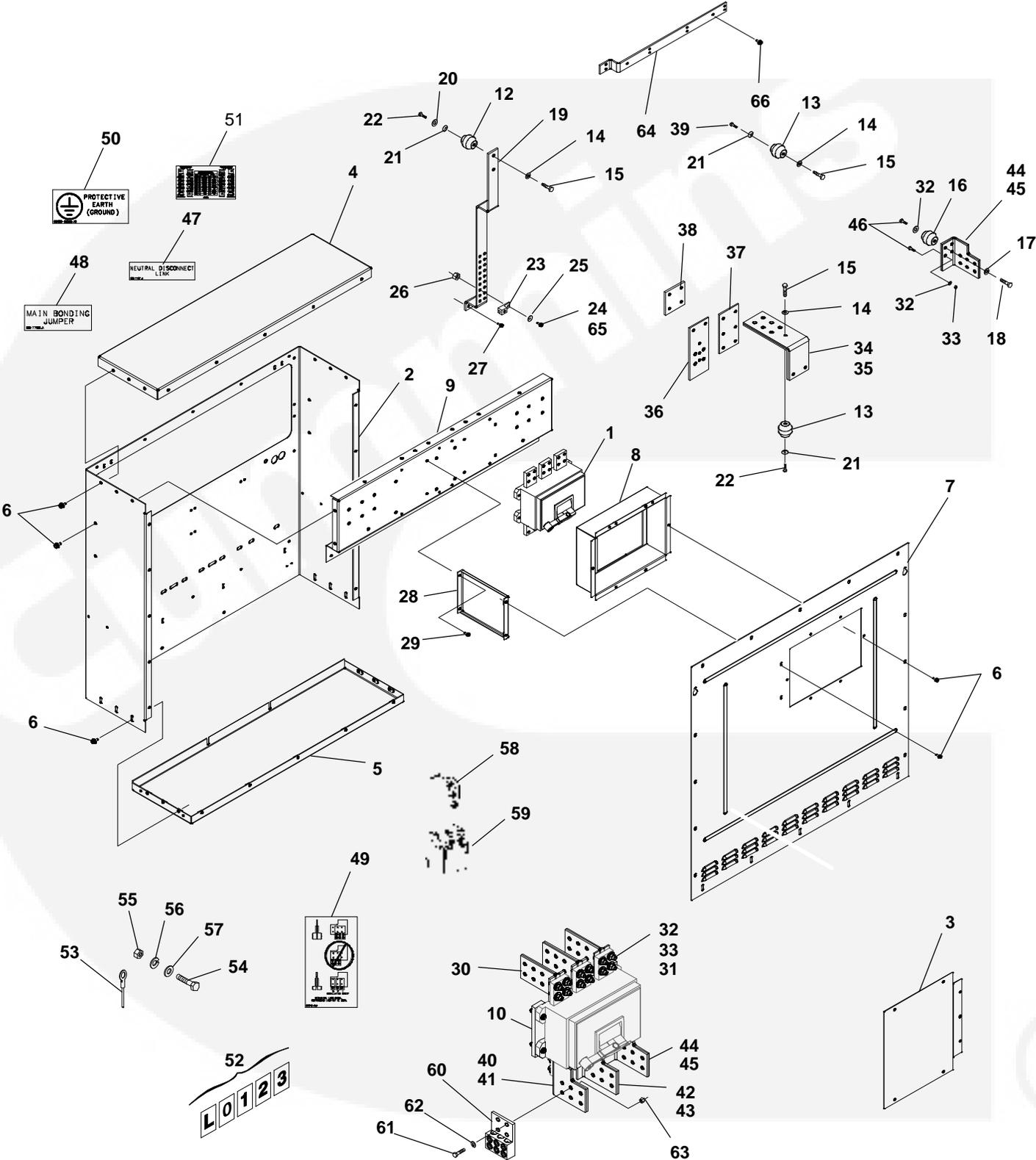
## Key Operator Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4564	1	Key, Operator Installation	2	308-1046	2	Key
1	308-1045	1	Switch, Key Operator				



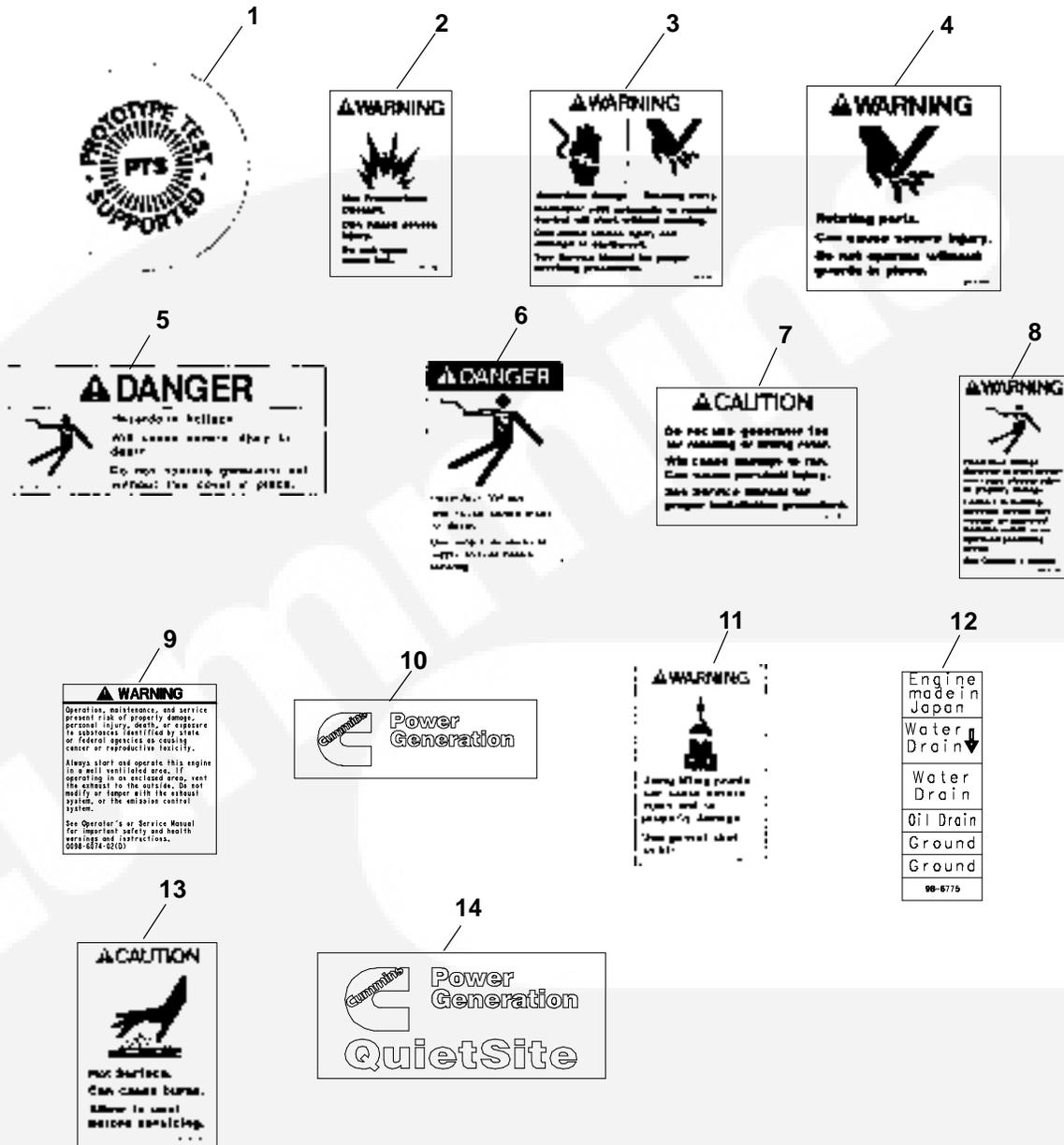
# Circuit Breaker



## Circuit Breaker

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	
1			Breaker, Circuit – 3 Pole (UL & IEC) (Includes Mounting Hardware)	40			Bus, Bar – Breaker	
	320-2164-03	1	1600 Amp		337-3620-02	2	Left Side Insulation	
	320-2164-02	1	2000 Amp		337-3620-02	1	Right Side Insulation	
	320-2164-01	1	2500 Amp	41			Bus, Bar – Breaker	
2	319-5161-02	1	Box, Circuit Breaker		337-3621-02	2	Left Side Insulation	
3	319-5084-02	1	Panel, Terminal		337-3621-02	1	Right Side Insulation	
4	319-5171-02	1	Cover, Circuit Breaker – Top	42	337-3619-01	1	Bus, Bar – Breaker	
5	319-5088-02	1	Cover, Circuit Breaker – Bottom	43	337-3619-02	1	Bus, Bar – Breaker	
6	821-6003-02	54	Screw, Hex Head (M8 x 1.25 x 20)	44			Bus, Bar – Breaker	
7			Cover, Circuit Breaker		337-3620-01	1	Left Side Insulation	
	319-5176-04	1	Left Side Installation		337-3620-01	2	Right Side Insulation	
	319-5176-05	1	Right Side Installation	45			Bus, Bar – Breaker	
8	319-5078-04	1	Cup, Switch	46	800-0093	4	Screw, Cap – Hex Head (1/2-13 x 1.75)	
9	319-5177-02	1	Bracket, Circuit Breaker	47	098-7701	1	Label, Neutral Disconnect	
10	232-4131	2	Spacer, Mounting Foot	48	098-7700	1	Label, Bonding – Jumper	
11	098-8144	1	Label, Information – Service Disconnect	49	098-8149	1	Label, Information – Lug Installation	
12	332-2744-07	2	Standoff, Insulator	50	098-6635	1	Label, Ground	
13	332-2512	5	Standoff, Insulator	51	098-6865	1	Label, Conduit Location	
14	850-0050	7	Washer, Lock – Split (3/8)	52			Label, Marker (10 Characters Per Card) (Quantity Used As Required)	
15	800-0048	7	Screw, Cap – Hex Head (3/8-16 x .75)		098-5854-06	4	Marked “L”	
16	332-2743-07	1	Standoff, Insulator		098-5854-07	1	Marked “1”	
17	850-0060	1	Washer, Lock – Split (1/2)		098-5854-08	1	Marked “2”	
18	800-0090	1	Screw, Cap – Hex Head (1/2-13 x 1.00)		098-5854-09	1	Marked “3”	
19	337-3626	1	Bus, Bar – Ground		098-5854-10	1	Marked “0”	
20	526-0423	2	Washer, Flat	53			Lead (Quantity Used As Required)	
21	851-0048-02	7	Washer, Belleville (3/8)		226-4894-08	1	23”	
22	800-0050	3	Screw, Cap – Hex Head (3/8-16 x 1”)		226-4894-02	1	18”	
23	332-3039	7	Lug, Solderless	54	800-2114	30	Screw, Cap – Hex Head (M12 x 1.75 x 40)	
24	800-0028	5	Screw, Cap – Hex Head (5/16-18 x 1”)		55	860-2010	30	Nut, Hex (M12)
25	851-0048-01	7	Washer, Belleville (5/16)		56	850-2012	30	Washer, Lock – Split (M12)
26	862-0015	7	Nut, Hex (5/16)		57	526-2140	30	Washer, Flat (M12)
27	815-0261	2	Screw, Hex Washer Head – Thread Forming (1/4-20 x .50)		58	320-2196-01	2	<b>Accessories, Circuit Breaker:</b> Switch – Used as a Trip Alarm or Auxiliary Contact
28	319-5102-03	1	Stiffener, Cover		59	320-2196-02	1	24 Volt Shunt Trip
29	821-6002-04	10	Screw, Hex Head (M6 x 1 x 20)		60	332-3949	8	Lug, Cable – Solderless
30	337-3618	6	Bus, Bar – Breaker		61	800-0054	16	Screw, Cap – Hex Head (3/8-16 x 2.00)
31	800-0094	24	Screw, Cap – Hex Head (1/2-13 x 2)		62	851-0022	16	Washer, Spring (3/8)
32	851-0048-03	28	Washer, Belleville (1/2)		63	862-0003	16	Nut, Hex (3/8)
33	862-0005	27	Nut, Hex (1/2)		64	337-3736	1	Bus, Bar – Ground
34	337-3623	1	Bus, Bar – Neutral		65	800-0030	2	Screw, Cap – Hex Head (5/16-18 x 1-1/4)
35	337-3624	1	Bus, Bar – Neutral		66	800-2063	2	Screw, Cap – Hex Head (M8 x 50)
36	337-3631	2	Bus, Bar – Neutral					
37	337-3625	1	Bus, Bar – Jumper					
38	337-3627	1	Bus, Bar – Neutral					
39	800-0052	4	Screw, Cap – Hex Head (3/8-16 x 1.5)					

## Labels



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-4500	2	Label, Prototype Tested	18	098-5822	8	* Label, Warning
2	098-4730	A/R	Label, Warning	19	098-6460	1	* Tag, Battery
3	098-4732	1	Label, Warning	20	098-7048	1	* Tag, Oil Fill
4	098-4798	3	Label, Warning	21	098-7646	1	* Tag, Battery
5	098-5347	A/R	Label, Danger	22	098-8204	2	* Label, Warning
6	098-5387	2	Label, Danger	23	098-8220	2	* Label, Information (White)
7	098-5842	1	Label, Caution	24	098-8445	1	* Label, Information
8	098-5759	1	Label, Warning	25	098-6118	1	* Label, Cabinet
9	098-6074-02	1	Label, Warning	26	098-7594-01	1	* Label, Fuel BD CONN
10	098-7902-03	A/R	Label, Logo	27	098-7594-02	1	* Label, Base BD CONN
11	098-5822	2	Label, Warning	28	098-8064	1	* Label, Information
12	098-6775	1	Label	29	098-8143	1	* Label, Information
13	098-6195	A/R	Label, Caution	30	098-8184	1	* Label, Instruction (Switch)
14	098-7913	A/R	Label, Logo	31	098-8708	1	* Label, Information
15	098-2124	1	* Tag, Caution				
16	098-3171	1	* Tag, Fuel Line				
17	098-3172	1	* Tag, Fuel Line				

\* - Item not shown

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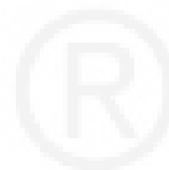
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