



Parts Manual

Generator Set

with PowerCommand[®] 3200 Controller

DQKB (Spec A–F)

DQKC (Spec A–F)

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.

DANGER

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

WARNING

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

CAUTION

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

PRODUCT SAFETY PRECAUTIONS

WARNING

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.

WARNING

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.

WARNING

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!

WARNING

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 Models DQKB and DQKC 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.

Replacement Engine

Cummins Power Generation Generator Model	Cummins Engine Model
DQKB, DQKC (50 Hertz)	QSK60-G3
DQKB, DQKC (60 Hertz)	QSK60-G6

Contact your nearest Cummins distributor for replacement engines.

Generator Set Data Table

Model and Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
1500DQKB/*	1,500,000	#	50	12	3	24VDC
1650DQKC/*	1,650,000	#	50	12	3	24VDC
1750DQKB/*	1,750,000	#	60	12	3	24VDC
2000DQKC/*	2,000,000	#	60	12	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.

– Broad range reconnectible

Index

A

Adapter, Duct – Radiator – Spec A, **34**
Adapter, Male – Radiator Drain, **41**
Aftercooler – Spec A, **32**

B

Bearing, Fan, **50** , **52**
Bearing, Pillow Block – Radiator Fan – Spec A, **34**
Belt, Fan – 40 C – Begin Spec D, **52**
Belt, Fan – Radiator – Spec A, **30**
Block, Terminal – Engine Coolant Heater Control, **20**
Block, Terminal – Engine Coolant Heater Control – Spec A–D, **16**
Block, Terminal – Resistive Temperature Detectors, **75**
Board, Printed Circuit – Backplane, **72**
Board, Printed Circuit – Base, **72**
Board, Printed Circuit – Control, **70**
Board, Printed Circuit – Fuel, **72**
Board, Printed Circuit – Generator Interface, **72**
Board, Printed Circuit – Lonworks, **72**
Board, Printed Circuit – Parallel, **72**
Boot, Battery, **8**
Box, Control – Engine Coolant Heater – Spec A–D, **16**
Box, Control – Generator Set, **70**
Box, Entrance – 100% UL Rated, **59**
Box, Terminal – Generator Heater, **58**
Brace, Skid – Radiator – Spec A, **30**
Bracket, LTA, **38** , **39**
Bracket, Belt Guard – 40 C, **53**
Bracket, Control Mounting – Frame 7 Generators, **62**
Bracket, Guard – 50 C, **54**
Bracket, Isolator – Control, **70**
Bracket, Mounting – Coolant Heater – Spec A–D, **14**
Bracket, Mounting – Resistive Temperature Detectors, **75**
Bracket, PT Bus Mounting – Control, **70**
Bracket, Terminal Block – Control, **70**
Bracket, Water Heater, **18**
Breaker, Circuit – NSJ Amp 100% UL Rated, **88**

Breaker, Circuit – R–Frame 1600–2500 Amp 100% UL Rated, **92**
Breaker, Circuit –P–Frame 800–1200 Amp 100% UL Rated, **90**
Bulkhead, Drain Hose – Radiator, **41**
Bulkhead, Male – LTA Drain Hose, **38** , **39**
Bushing, Fan – Radiator – Spec A, **34**
Bushing, Fan Pulley – Radiator – Spec A, **34**

C

Cable, Battery, **8**
Cage, Card – Control, **72**
Cap, Expansion Tank – Radiator – Spec A, **34**
Cap, Radiator, **38** , **39** , **40** , **41**
Cap, Radiator – Heat Exchanger, **22**
Cap, Radiator – Spec A, **34**
Cartridge, Heater – Generator Heater, **58**
Clamp, Hose – Jacket Water, **37** , **41**
Clamp, Hose – Radiator, **40** , **50** , **52**
Cleaner, Air – Begin Spec F, **12**
Cleaner, Air – Spec A–E, **10**
Clip, Socket Mounting – Relay, **76**
Cock, Drain – Heat Exchanger, **22**
Control, Engine Coolant Heater, **20**
Control, Engine Coolant Heater – Spec A–D, **16**
Control, PowerCommand, **70**
Cooler, Fuel, **43** , **50** , **52**
Cooler, Fuel – Sets With Heat Exchanger Cooling, **55**
Cooler, Fuel – Sets With Radiator Cooling – Spec A, **34**
Core, Aftercooler – Spec A, **32**
Core, Jacketwater – Spec A, **31**
Core, Radiator, **40**
Core, Radiator – Jacket Water, 50 Hz & 60 Hz Begin Spec E, **41**
Core, Radiator – Jacket Water, Begin Spec D, **37**
Core, Radiator – Jacket Water, Spec B–C, **37**
Core, Radiator – LTA 40 C – Spec D, **39**
Core, Radiator – LTA 40 C, Begin Spec D, **38**
Cover, Box – Control, **70**
Cover, Card Cage, **72**

Index

Cover, Control – Engine Coolant Heater, **18**
Cover, Control Housing – Frame 7 Generators, **62**
Cover, Control Housing – Frame 8 Generators, **64**
Cover, Cutout – Control, **70**
Cover, Damper – Remote Radiator – Begin Spec D, **28**
Cover, Damper – Remote Radiator – Spec A–B, **24**
Cover, Damper – Remote Radiator – Spec C, **26**
Cover, Engine Coolant Heater – Spec A–D, **14**

D

Detectors, Resistive Temperature, **75**
Diode/Varistor Kit – Generator, **66**

E

Element, Replacement – Air Cleaner – Begin Spec F, **12**
Element, Replacement – Air Cleaner – Spec A–E, **10**
Engine Accessories, **8**
Exchanger, Heat, **22**
Exchanger, Heat – Fuel Cooler, **55**

F

Fan, Impeller – Begin Spec B, **52**
Fan, Radiator – Spec A, **34**
Fitting, Grease – Fan Shaft – Radiator – Spec A, **34**
Frame, Control Panel, **73**
Fuse – Printed Circuit Board – Generator Interface and Base Board, **72**

G

Gasket, Aftercooler – Spec A, **32**
Gasket, Core – Jacket Water, **41**
Gasket, Cover – Control, **70**
Gasket, Flange – Heat Exchanger, **22**
Gasket, Heatsink – Control, **70**
Gasket, Jacketwater – Spec A, **31**
Gasket, LTA, **38 , 39**
Gasket, Radiator, **40**

Gasket, Water Tube Outlet – Remote Radiator – Begin Spec D, **28**
Gasket, Water Tube Outlet – Remote Radiator – Spec C, **26**
Gauge, Restriction – Air Cleaner – Spec A–E, **10**
Gauge, Sight – Radiator – Spec A, **34**
Generator, **66 , 67 , 68**
Guard, Belt – 50 C, **54**
Guard, Damper – Remote Radiator – Begin Spec D, **28**
Guard, Damper – Remote Radiator – Spec A–B, **24**
Guard, Damper – Remote Radiator – Spec C, **26**
Guard, Fan Drive – Radiator – Spec A, **30**
Guard, Top Belt – 40 C, **53**

H

Harness, Wiring – AC, **78**
Harness, Wiring – AC – Engine Coolant Heater – Spec A–D, **16**
Harness, Wiring – Control, **79 , 80**
Harness, Wiring – Control Heater, **74**
Harness, Wiring – DC – Engine Coolant Heater – Spec A–D, **16**
Harness, Wiring – Engine Extension, **82**
Harness, Wiring – Lonworks, **72**
Harness, Wiring – Low Coolant Level Sender – Remote Radiator – Begin Spec D, **28**
Harness, Wiring – Low Coolant Level Sender – Remote Radiator – Spec A, B, **24**
Harness, Wiring – Low Coolant Level Sender – Remote Radiator – Spec C, **26**
Harness, Wiring – Low Coolant Level Sender – Sets Without Remote Radiator, **56**
Harness, Wiring – Parallel, **72**
Heater, Control, **74**
Heater, Coolant – Spec A–D, **14**
Heater, Engine Coolant, **18**
Heater, Generator, **58**
Heatsink, Genset – Control, **70**
Hose Assembly, Engine Coolant Heater, **18**
Hose, Drain – Jacket Water, **41**
Hose, Drain – LTA, **38 , 39**

Index

Hose, Engine Coolant Heater – Spec A–D, **14**
Hose, Expansion Tank – Radiator – Spec A, **34**
Hose, Fuel, **50** , **52**
Hose, Grease – Fan Shaft – Radiator – Spec A, **34**
Hose, Jacket Water, **41**
Hose, Jacket Water – 40 C – Spec D, **39**
Hose, Oil Drain, **8**
Hose, Overflow – Radiator – Spec A, **34**
Hose, Radiator, **40**
Hose, Radiator – Heat Exchanger, **22**
Hose, Radiator – Jacket Water, **37**
Housing, Control – Frame 7 Generators, **62**
Housing, Control – Frame 8 Generators, **64**
Hub, Fan – Radiator – Spec A, **34**

I

Impeller, Fan – 40 C – Spec B–C; 50 C – Begin Spec D, **50**
Isolator, Vibration – Control, **70**
Isolator, Vibration – Control Housing – Frame 7 Generators, **62**
Isolator, Vibration – Control Mounting Bracket – Frame 7 Generators, **62**

J

Jacketwater – Spec A, **31**

L

Labels, Circuit Breaker – 100% UL Rated, **93** , **94**
Line, Flexible – Fuel Cooler, **55**
Line, Fuel – Fuel Cooler – Spec A, **34**
Line, Fuel – Fuel In, Fuel Out, **8**
Line, Radiator Vent – Radiator – Spec A, **30**
Line, Radiator Vent – Spec A, **34**
Line, Vent – Remote Radiator – Begin Spec D, **28**
Line, Vent – Remote Radiator – Spec A, B, **24**
Line, Vent – Remote Radiator – Spec C, **26**

M

Manifold – Heat Exchanger, **22**

Manifold, Engine Coolant Heater, **18**
Module, Voltage Regulator – Control, **70**
Mounting Hardware – Generator to Engine, **65**

P

Paint, **7**
Panel, Control Housing – Frame 7 Generators, **62**
Panel, Control Housing – Frame 8 Generators, **64**
Panel, PowerCommand Control, **73**
Panel, Side – Belt Guard, 40 C, **53**
Pulley, Fan, **50** , **52**
Pulley, Fan – Radiator – Spec A, **34**

R

Radiator – 40 C – Begin Spec D, **52**
Radiator – Spec A, **34**
Radiator, 40 C – Spec B–C, **46**
Radiator, 50 C – Begin Spec D, **50**
Radiator, Remote – Begin Spec D, **28**
Radiator, Remote – Spec A–B, **24**
Radiator, Remote – Spec C, **26**
Relay, Alarm (K11, 12, 13, 14), **76**
Relay, Ground Fault, **83**
Relay, Power – Engine Coolant Heater Control, **20**
Relay, Power – Engine Coolant Heater Control – Spec A–D, **16**
Relay, Run, **76**

S

Seal, Radiator – Silicone, **38**
Sealant, Thread, **7**
Sender, Low Coolant Level – Radiator Cooling – Spec A, **36**
Sender, Low Coolant Level – Remote Radiator – Begin Spec D, **28**
Sender, Low Coolant Level – Remote Radiator – Spec A, B, **24**
Sender, Low Coolant Level – Remote Radiator – Spec C, **26**
Sender, Low Coolant Level – Sets Without Remote Radiator, **56**

Index

Shaft, Fan, **52**
Shaft, Fan – 40 C – Spec B–C; 50 C – Begin Spec D, **50**
Shaft, Fan Drive – Radiator – Spec A, **34**
Shim, Generator Mounting, **57**
Shroud, Fan – Radiator – Spec A, **34**
Sight Glass – Radiator, **38 , 39 , 41**
Sight Glass, Radiator, **40**
Skid, Generator Set, **57**
Skid, Heat Exchanger, **22**
Skid, Radiator – Spec A, **34**
Slab, Jacket Water – 50 C Begin Spec D, **50**
Slab, Jacket Water– 40 C – Begin Spec D, **52**
Slab, LTA – 40 C – Begin Spec D, **52**
Slab, LTA – 50 C – Begin Spec D, **50**
Socket, Relay, **76**
Spacer, Engine Mounting, **57**
Spacer, Generator Mounting, **57**
Strap, Ground – Circuit Breaker Box, **77**
Strap, Ground – Control Housing to Generator and Generator Control to Generator – Frame 7 Generators, **62**
Strap, Ground – Engine to Skid, **8**
Strap, Tank – Jacket Water, **37 , 41**
Strap, Tank – LTA, **38 , 39**
Strap, Tank – Radiator, **40**
Strip, Sealing – Radiator Tank, **40**
Switch, Trip Alarm or Auxiliary Contact – Circuit Breaker, **88 , 90 , 92**

T

Tank, Aftercooler – Spec A, **32**
Tank, Bottom – Jacket Water, **41**
Tank, Expansion – Heat Exchanger, **22**
Tank, Expansion – Radiator – Spec A, **34**
Tank, Jacketwater – Spec A, **31**
Thermostat – Engine Coolant Heater, **18**
Thermostat, Engine Coolant – Spec A–D, **14**

Transformer, Current, **84**
Transformer, Current – Differential, **86**
Trip, Shunt – Circuit Breaker, **88 , 90 , 92**
Tube Assembly, Engine Coolant Heater, **18**
Tube, Engine Coolant Heater – Spec A–D, **14**
Tube, Engine Coolant Heater, **18**
Tube, Radiator – Lower – Spec A, **36**
Tube, Radiator – Upper and Lower – Spec A, **30**
Tube, Water – Heat Exchanger, **22**
Tube, Water Inlet and Outlet – Remote Radiator – Begin Spec D, **28**
Tube, Water Inlet and Outlet – Remote Radiator – Spec A, B, **24**
Tube, Water Inlet and Outlet – Remote Radiator – Spec C, **26**

V

Valve, Ball – Engine Heater, **18**
Valve, Check – Heat Exchanger, **22**
Valve, Check – JW Vent Line, **46 , 50 , 52**
Valve, Check – Radiator Vent Line – Radiator – Spec A, **30**
Valve, Shutoff – Oil Drain, **8**
Valve, Shutoff – Radiator – Spec A, **36**
Valve, Shutoff – Remote Radiator – Begin Spec D, **28**

Valve, Shutoff – Remote Radiator – Spec A, B, **24**
Valve, Shutoff – Remote Radiator – Spec C, **26**
Valve, Solenoid – Heat Exchanger, **22**
Vent Line, Jacket Water – 40 C – Spec B–C; 50 C – Begin Spec D, **50**
Vent Line, Jacket Water – Begin Spec B, **52**
Vent Line, LTA – 40 C – Spec B–C; 50 C – Begin Spec D, **50**
Vent Line, LTA – Begin Spec B, **52**

W

Wrapper, Fan Shroud – Radiator – Spec A, **34**

Abbreviations

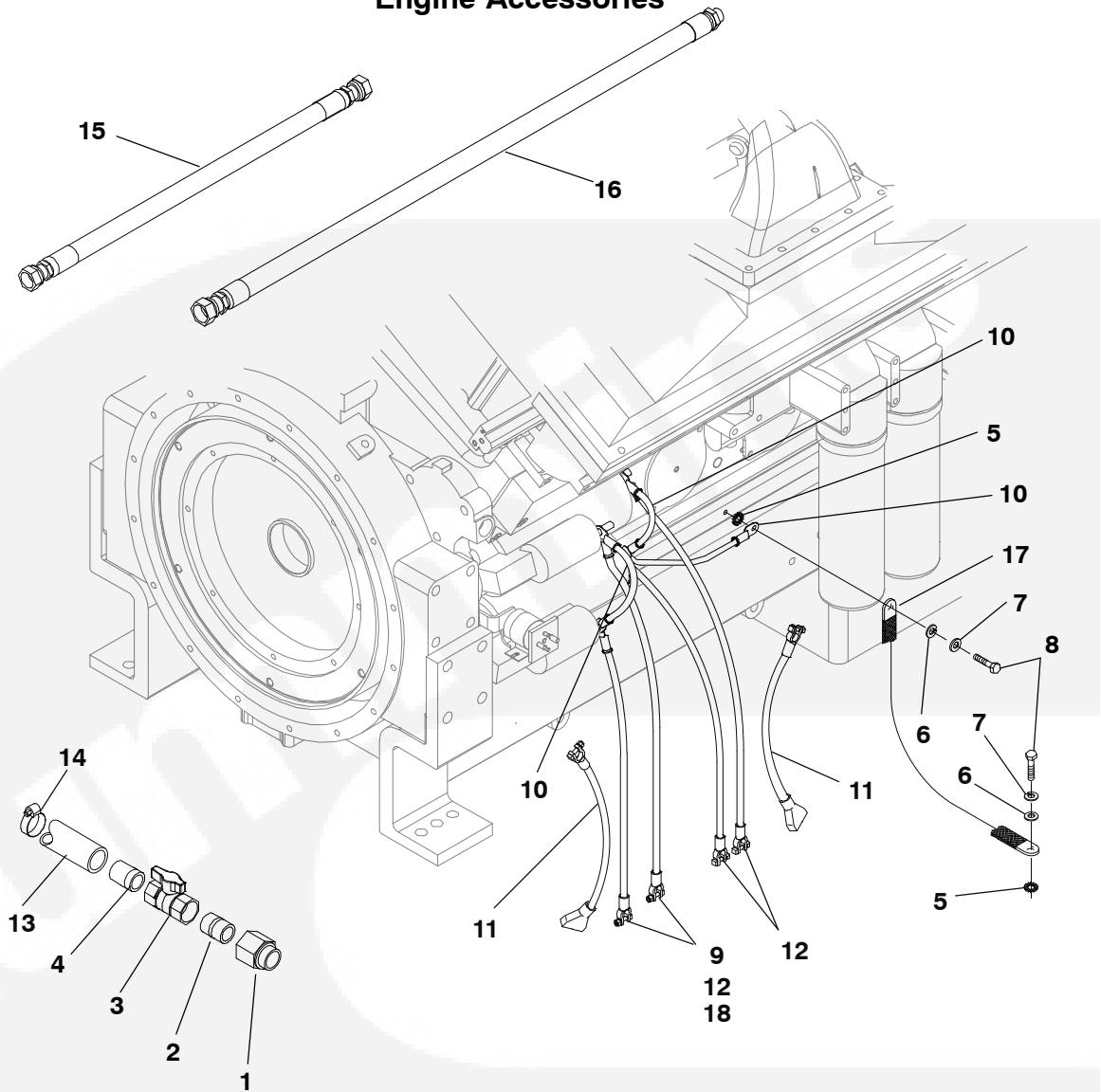
Some of the following abbreviations may be used throughout this Parts Catalog:

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)				
	525-0305	-	12 oz. Pressurized Spray Can				
	525-0306	-	Quart Can				
	525-0304	-	Gallon Can				
	518-0601	-	Sealant, Thread (6 ml Tube)				

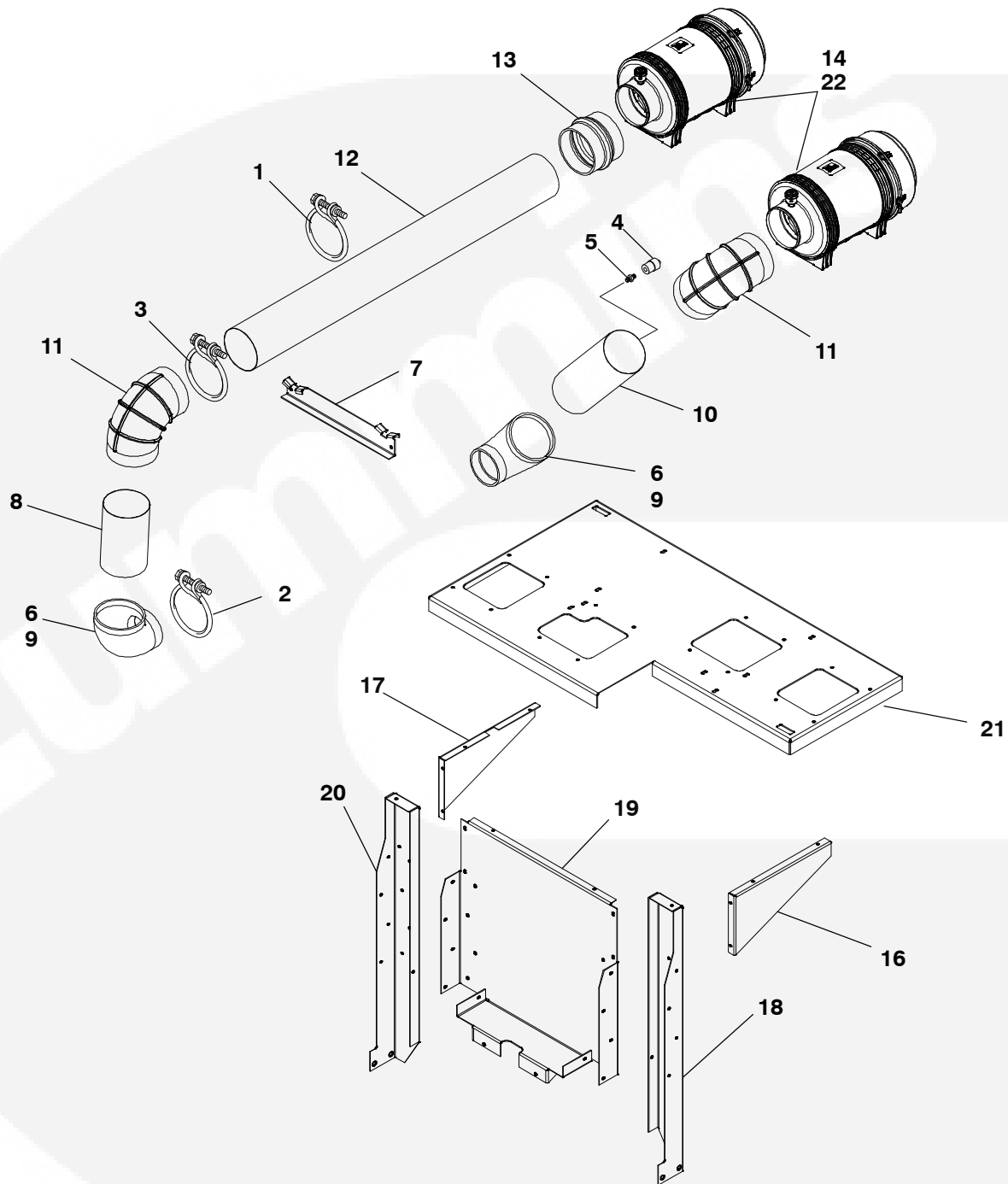
Engine Accessories



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-1508	1	Adapter (3/4" Female to M27 Male Includes O'Ring)
2	505-0102	1	Nipple, Pipe-Close(3/4")
3	504-0171	1	Valve, Shutoff (3/4")
4	505-0324	1	Nipple, Pipe (3/4"x 2")
5	856-0013	2	Washer, Lock EIT (1/2")
6	526-2140	2	Washer, Flat (M12)
7	850-2012	2	Washer, Lock Spring (M12)
8	800-2111	2	Screw, Cap Hex Head (M12 x 25mm)
9	416-1019	2	Boot, Battery (Red)
10	416-0680	3	Cable, Battery (10")
11			Cable, Battery (12x1/2")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	416-0446	2	Spec A-D
	416-1096	2	Begin Spec E
12	416-0639	4	Cable, Battery (60") Spec A-E
13	503-0249	-	Hose, Oil Drain Bulk (3/4" ID) (3')
14	503-1137	1	Clamp, Hose
15	501-0708	1	Line, Fuel Flexible
16			Line, Fuel - Flexible
	501-0697-02	1	With Heat Exchanger
	501-0697-04	1	Radiator Cooled
	501-0697-05	1	Remote Radiator
17	337-0090-01	1	Strap, Ground (27")
18	416-1084-01	2	Boot, Starter (Red)

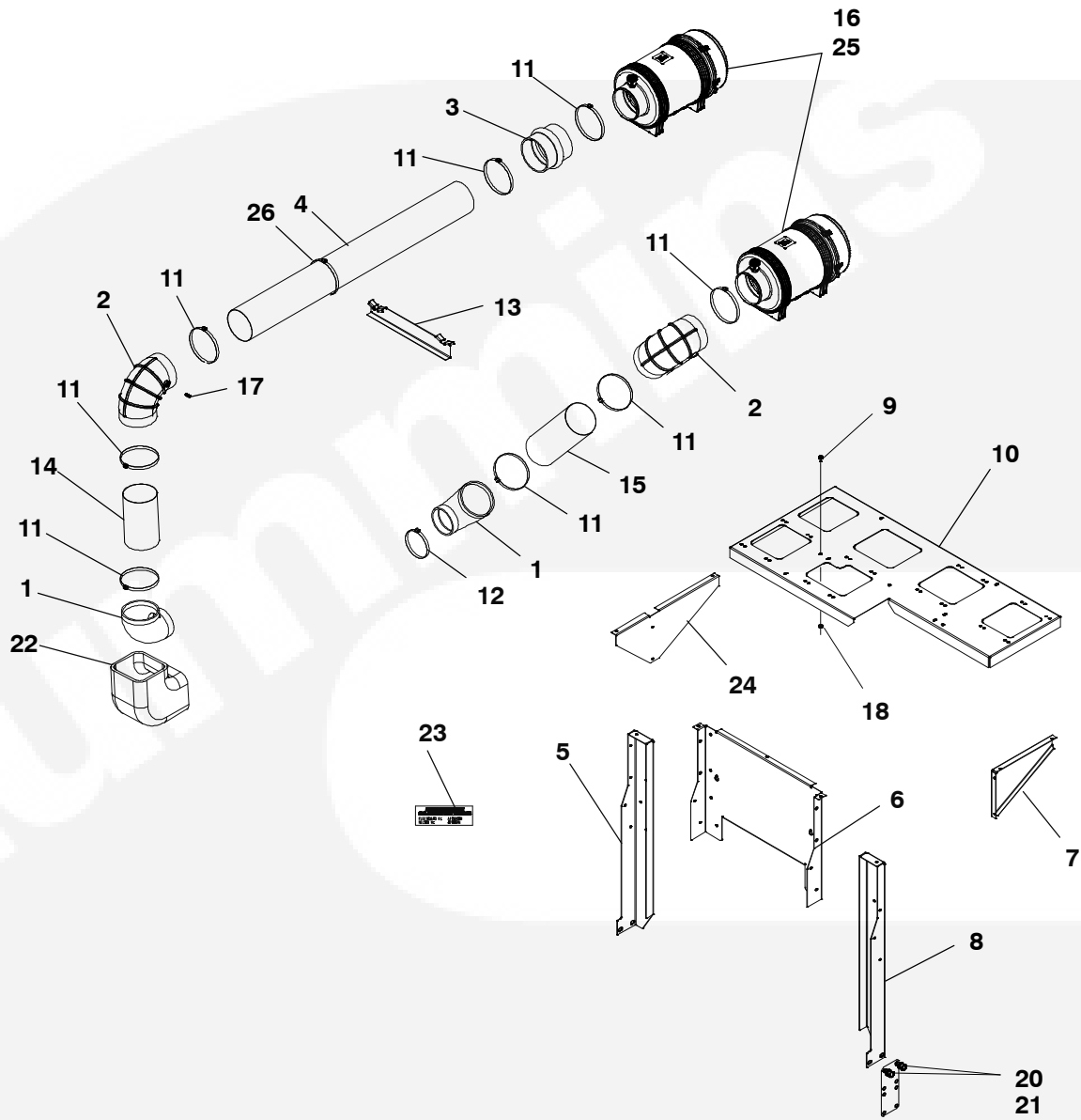
Air Cleaner Spec A-E



Air Cleaner Spec A-E

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-1872-12	2	Clamp, T-Bolt	14			Cleaner, Air
2			Clamp, T-Bolt	140-3963	4		Spec A-C (Metal)
	503-1872-10	4	50 Hz	140-3288-02	4		Spec D-E (Plastic)
	503-1872-11	4	60 Hz	15	184-0087	1	Clamp, Band
3	503-1872-14	16	Clamp, T-Bolt	16	184-0088	1	Bracket
4	140-1548	4	Gauge, Restriction	17	184-0089	1	Bracket
5	140-1260	4	Fitting, Pipe	18	184-0091	1	Brace
6	184-0078	2	Boot, Insulation	19	184-0092	1	Bracket
7	184-0079	1	Bracket	20	184-0093	1	Brace
8	184-0080	2	Tube, Air Inlet	21	130-5732	1	Plate
9			Elbow	22			Element, Replacement
	502-1462	4	50 Hz	AF25593	1		Spec A (Fleetguard Part Number)
	502-1461	4	60 Hz	AF25750	1		Spec B-C (Fleetguard Part Number)
10	184-0082	2	Tube, Air Inlet	AF25708M	1		Spec D-E (Fleetguard Part Number)
11	503-0970	4	Elbow				
12	184-0084	2	Tube, Air Inlet				
13	503-1705	2	Hump, Hose				

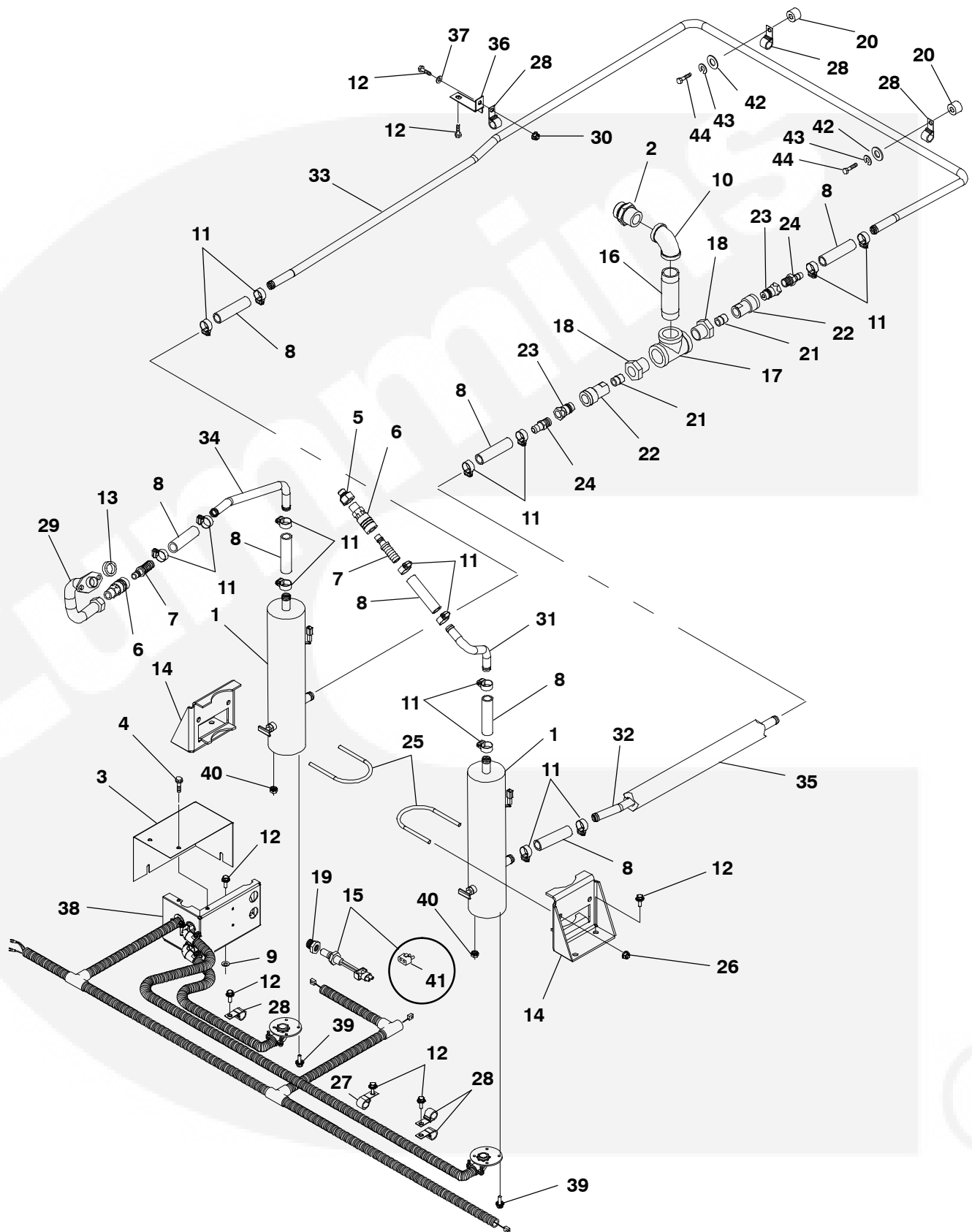
Air Cleaner **Begin Spec F**



Air Cleaner Begin Spec F

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-2102	4	Elbow, Reducer – 90°  60 Hz (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	140-3518-02	2	Tube, Air Cleaner	17	140-1260	4	Fitting, Safety Filter
5	140-3504-02	1	Bracket, Air Cleaner – Vertical Right	18	870-2065-03	3	Nut, Hex – Flange
6	140-3506-02	1	Bracket, Air Cleaner – Plate	19	517-0080	4	Plug, Tapered (Not Illustrated)
7	140-3507-02	1	Bracket, Air Cleaner – Angle	20	800-2201	4	Screw, Cap – Hex Head (M20 x 2.5 x 35)
8	140-3505-02	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	16	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	26	503-1870-13	2	Clamp, Hose

Coolant Heater Spec A-D



Coolant Heater Spec A-D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater, Coolant	21	505-0100	2	Nipple, Pipe (1/2" x 1-1/8")
	333-0634-01	2	4990 Watt	22	502-1260	2	Coupler, Brass (1/2")
	333-0634-02	2	6420 Watt	23	502-1261	2	Nipple, Brass (1/2")
2	502-1325	1	Adapter, Pipe (M42 x 1-1/4")	24	502-0827	2	Fitting, Hose – Barbed (1/2" ID Pipe to 3/4" ID Hose)
3	319-2815	1	Cover, Terminal Box	25	155-3021	2	Clamp, Mounting
4	821-5002-04	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	26	870-0550-09	4	Nut, Hex – Flange (3/8-16)
5	502-1315	1	Adapter, Brass (Includes "O" Ring) (1/2" Female to M18 Male)	27	518-0548-24	2	Clamp, Hose
6	502-1259	2	Coupler (1/2" Male)	28	327-0923	6	Clamp, "J"
7	502-1257	2	Connector, Hose – Barbed (Fits 3/4" ID Hose)	29	130-5089-02	1	Tube, Heater
8	503-3062-01	8	Hose, Rubber	30	870-2065-03	1	Nut, Hex – Flange (M8)
9	526-0017	2	Washer, Flat (15/32" ID x 1-1/2" OD x 1/4" Thk)	31	130-5079-02	1	Tube, Heater
10	505-0042	1	Elbow, Pipe (1-1/4")	32	130-5078-02	1	Tube, Heater
11	503-2157-02	16	Clamp, Hose	33	130-5077-02	1	Tube, Heater
12	821-6003-02	12	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)	34	130-5080-02	1	Tube, Heater
13	317755600	1	Seal	35	128-0108	–	Insulation, Hose – Bulk (Order By The Foot – 12 Feet Required)
14	130-4546	2	Bracket, Mounting – Coolant Heater	36	130-4538	1	Bracket, Support
15	309-0649	1	Thermostat (Opens at 110°F, Closes at 130°F) (Includes Connector Socket) (S11)	37	526-2100	1	Washer, Flat (M8)
16	505-0653	1	Nipple, Pipe (1-1/4" x 4")	38	–	1	Control Assembly, Coolant Heater (See Separate Page For Components)
17	505-0249	1	Tee, Pipe (1-1/4")	39	815-0539	6	Screw, Machine – Round Head – Cross Recessed W/IT (#8-32 x 5/8")
18	505-0127	2	Bushing, Pipe – Reducer (1-1/4" to 1/2")	40	870-0131	6	Nut, Hex – W/ET (#10-32)
19	502-1321	1	Adapter, Brass	41	323-1637	1	Socket, Connector (2 Place)
20	130-3660-03	2	Spacer (1/2" ID x 1-1/4" OD x 3/4" Thk)	42	526-2100	2	Washer, Flat (M8)
				43	850-2008	2	Washer, Lock – Spring (M8)
				44	718-1039	2	Screw, Cap – Hex Head (M8 x 35mm)

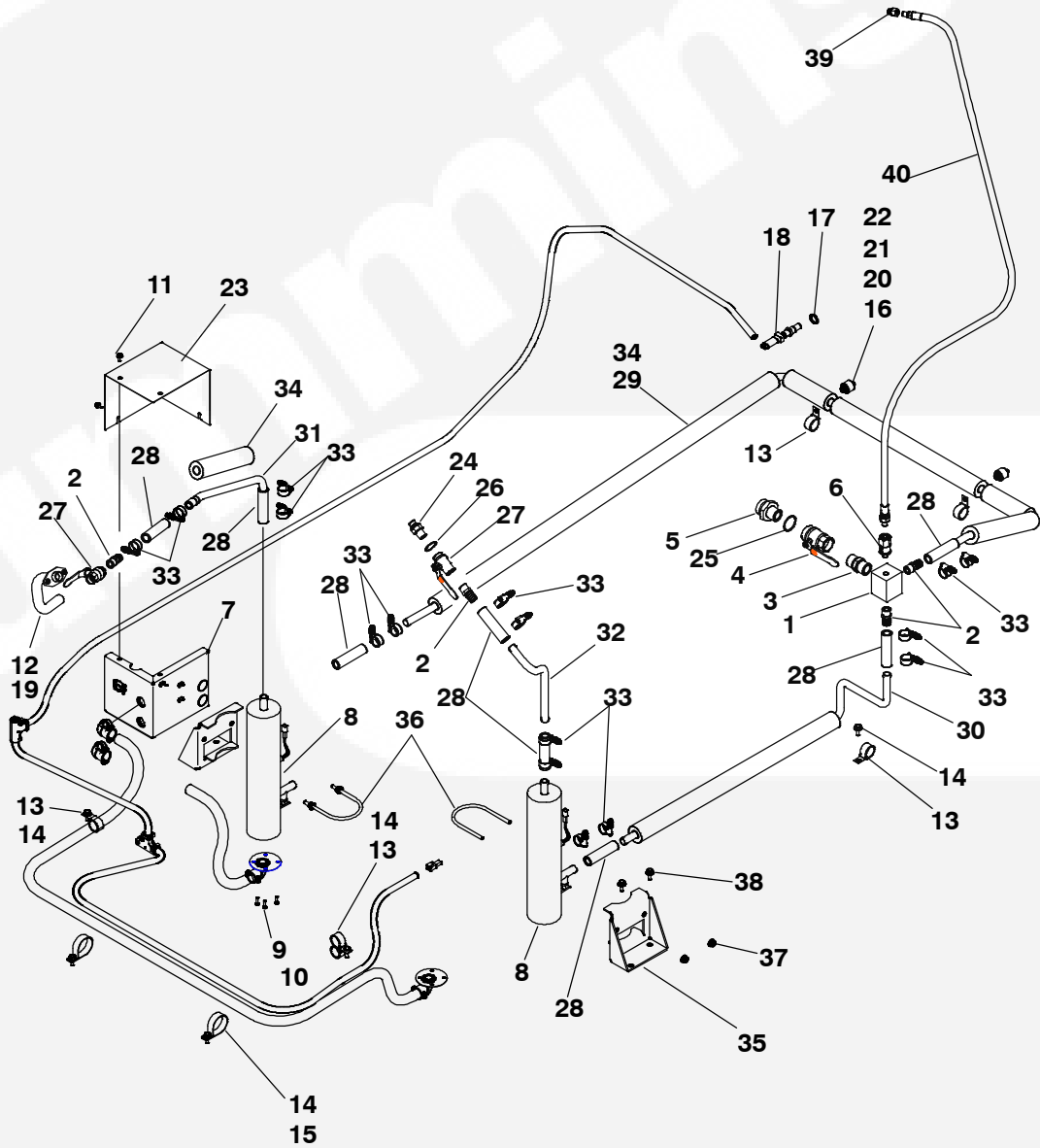
Diagram illustrating the rear panel components of the device, labeled 7 through 16. The components are arranged in a circular pattern around a central area. A large number 23 is visible in the bottom right corner of the page.

Coolant Heater Control Spec A-D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4552	2	Cover, Coolant Heater	11	323-1502	1	* Wedge, Receptacle (Used With Inline F)
2	338-3335-09	1	Harness, Wiring – AC – Coolant Heater (From Coolant Heater Bottom To Coolant Heater Control Box) (Includes Conduit Connectors) (108")	12	323-1504	2	* Connector, Plug (2 Pin) (Stations 18,19)
3	338-3335-01	1	Harness, Wiring – AC – Coolant Heater (From Coolant Heater Bottom To Coolant Heater Control Box) (Includes Conduit Connectors) (30")	13	323-1500	2	* Wedge, Plug (Used With Stations 18,19)
4	331-0554	4	Connector, Conduit – 90 Deg (3/4")	14	323-1652	1	* Connector, Plug – 2-Way (2 Pin) (Station 17)
5	331-0042	1	Connector, Wiring – DC – Romex (3/4")	15	323-1718	2	* Pin, Contact (Used In Station 17)
6	338-3831	1	Harness, Wiring – DC – Engine Heater (From Coolant Heater Control Box To Engine And Main Engine Harness) (Includes Parts Marked *)	16	323-1445	2	* Seal, Cable (Used With Station 17)
7	357-0030	1	* Rectifier (6 Amp) (Located At K11 End Of Harness) (CR11)	17	517-0138-02	2	Plug, Hole (Fits 1-1/8" Hole)
8	323-1491	3	* Pin, Contact (Used In Station Inline F)	18	319-2814	1	Box, Terminal
9	323-1492	4	* Socket, Contact (Used In Stations 18, 19)	19	332-3440	2	Jumper, Terminal
10	323-1494	1	* Connector, Receptacle (3 Pin) (Inline F)	20	307-2859	1	Relay, Power – 24VDC (K11)
				21	815-0447	4	Screw, Machine – Round Head – Cross Recessed W/IT – Thread Forming (#8-32 x 3/4")
				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)

* – Parts Included In 338-3831 DC Engine Heater Wiring Harness

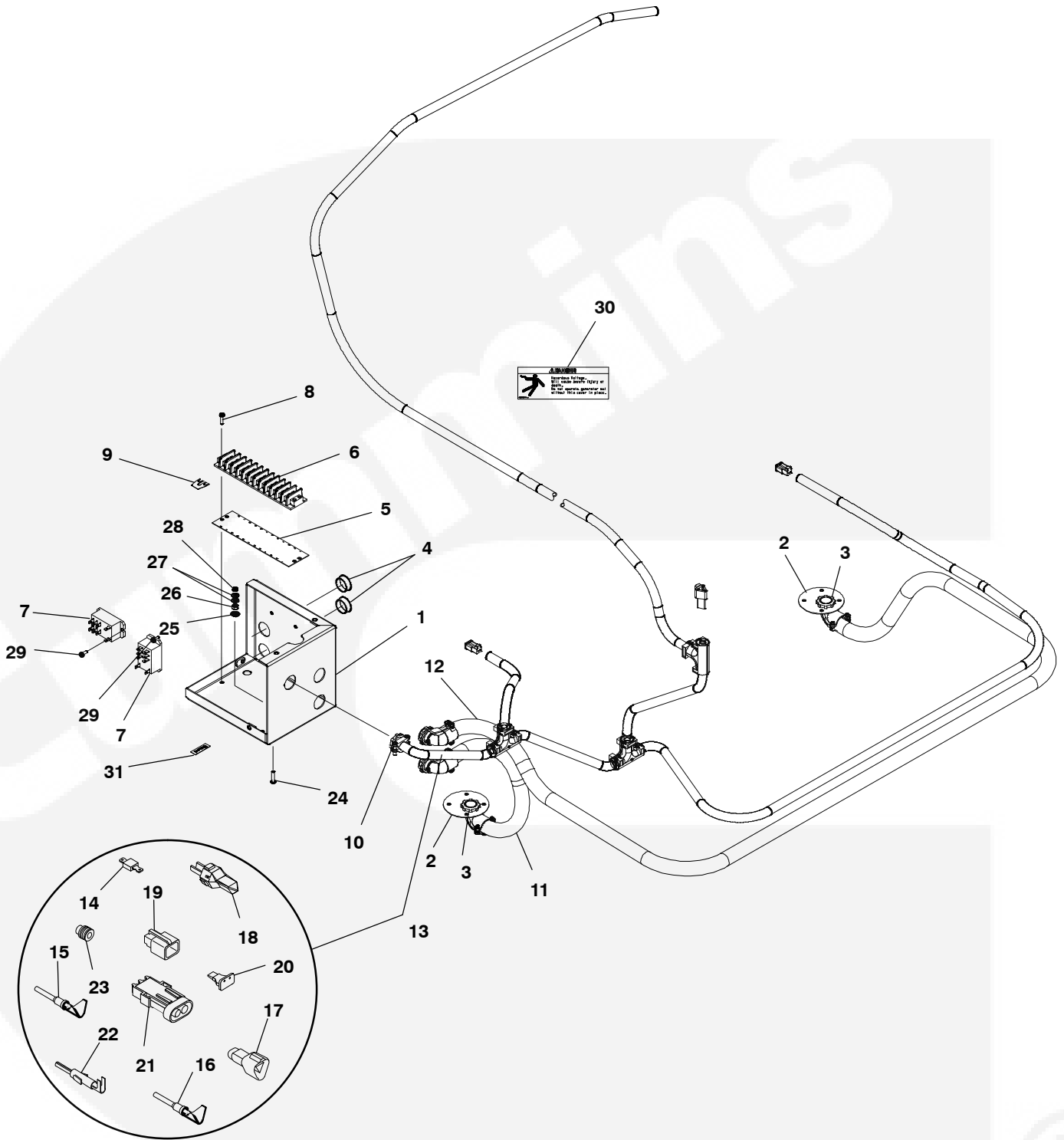
Engine Coolant Heater



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	502-0827	4	Hose, Barb	21	850-2008	2	Washer, Lock (M8)
3	505-1576-02	1	Nipple, Hex Pipe (1 NPT)	22	718-1039	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	526-0017	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	130-4546	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	821-5002-04	4	Screw, Hex Head SEMS (1/4-20 x 1/2")
18	309-0711	1	Thermostat	39	502-1318	1	Adapter, Pipe
19	317755600	1	Seal, Rect. Ring	40	501-0744-05	1	Hose Assembly, Coolant

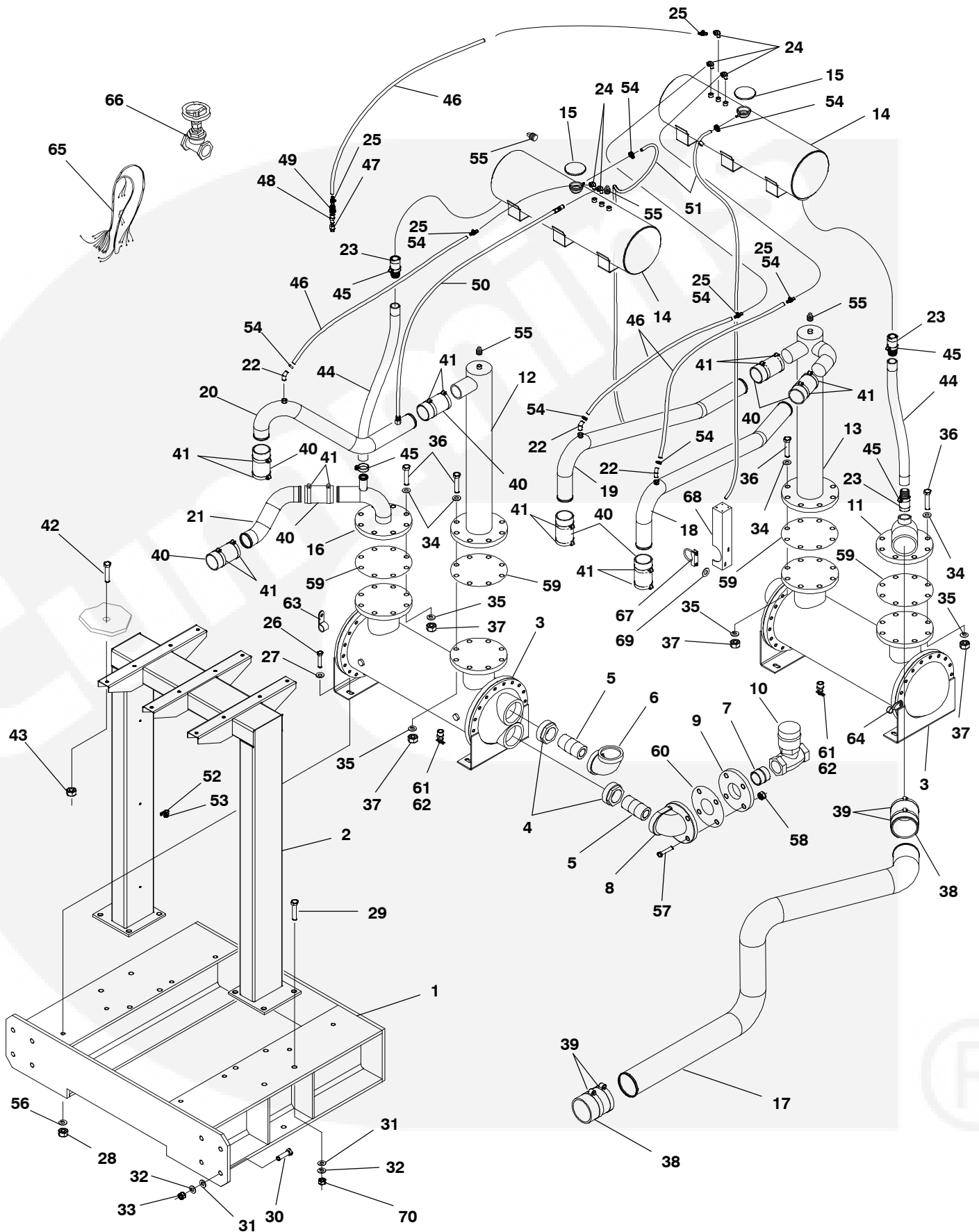
Coolant Heater Control



Coolant Heater Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4787	1	Box, Terminal	18	323-1502	1	* Wedge, Receptacle
2	130-4552	2	Cover, Coolant Heater	19	323-1504	2	* Connector, Plug (2 Pin)
3	331-0555	5	Nut, Connector Lock (3/4-14)	20	323-1500	2	* Wedge, Plug
4	517-0138-02	2	Plug, Hole (Fits 1-1/8" Hole)	21	323-1652	1	* Connector, Plug - 2-Way (2 Pin)
5	332-1469	1	Strip, Marker	22	323-1718	2	* Pin, Contact
6	332-1468	1	Block, Terminal - 12 Place (TB1)	23	323-1445	2	* Seal, Cable
7	307-3089	2	Relay, Power	24	815-0203	1	Screw, Machine - Round Head W/ET (#10-32 x 7/8")
8	815-0447	2	Screw, Machine - Round Head - Cross Recessed W/IT - (#8-32 x 3/4")	25	856-0003	1	Washer, ET Lock (#10)
9	332-3440	2	Jumper, Terminal	26	871-0010	1	Nut, Hex Brass (#10-32)
10	331-0042	1	Connector, Wiring - DC - Romex (3/4")	27	526-0049	2	Washer, Flat Brass (#10)
11	338-4995-03	1	Harness, Wiring - Eng.	28	870-0131	1	Nut, Hex w/ ET (#10-32)
12	338-4995-05	1	Harness, Wiring - Eng.	29	815-0446	4	Screw, Round Head - Cross Recessed - Thread Cutting - W/IT (#8-32 x .50)
13	338-4986	1	Harness, Wiring - (Includes Parts Marked *)	30	098-7244	1	Label, Danger
14	357-0030	1	* Rectifier (6 Amp)	31	098-2235-02	1	Label, Ground
15	323-1491	3	* Pin, Contact	* - Parts Included In 338-4986 Wiring Harness			
16	323-1492	4	* Socket, Contact				
17	323-1494	1	* Connector, Receptacle (3 Pin)				

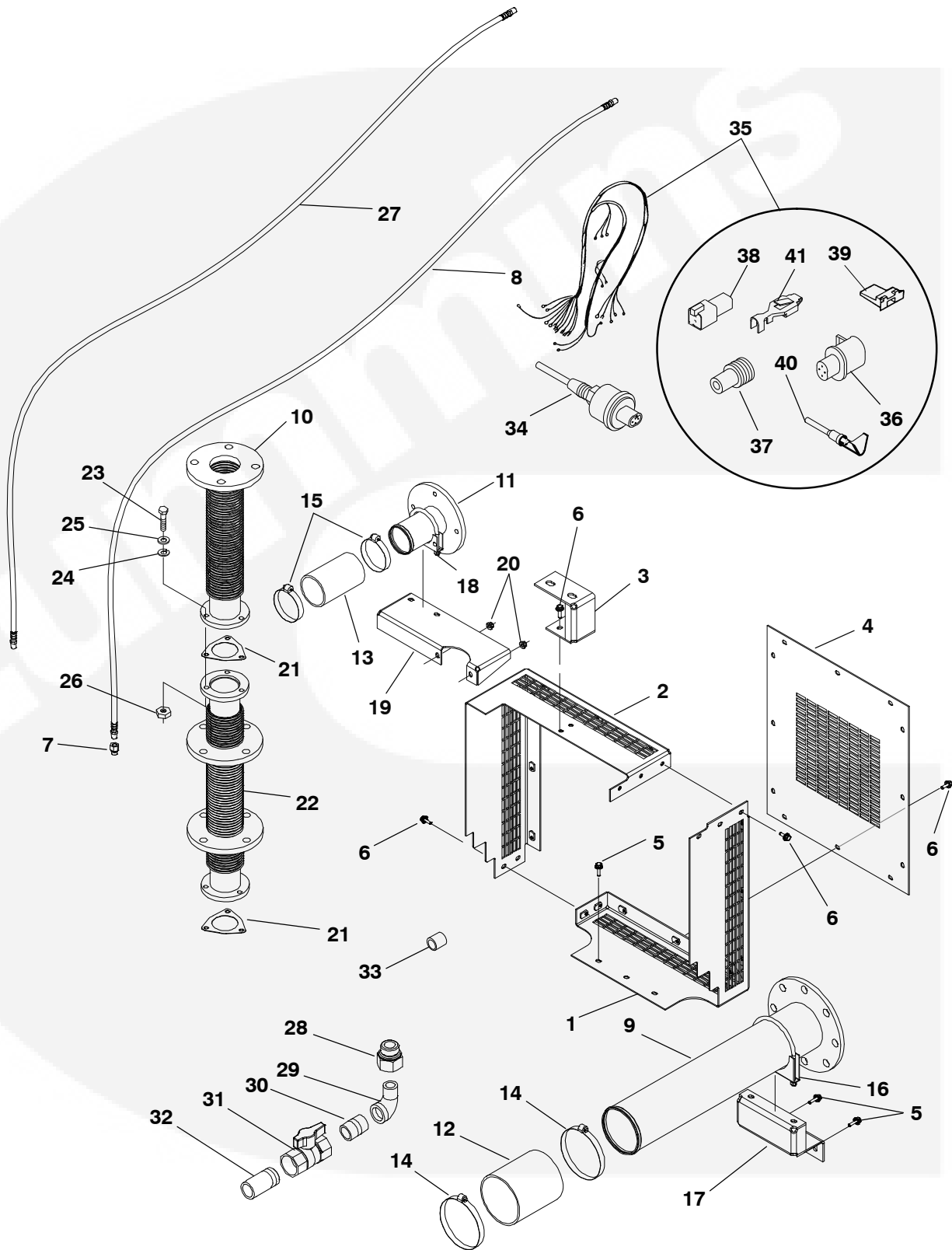
Heat Exchanger



Heat Exchanger

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	43	870-2065-03	12	Nut, Hex – Flange (M8 x 1.25)
7	505-0114	2	Nipple, Pipe (2-1/2 x 3.00)	44	503-1729	-	Hose, Radiator – Bulk (Order by the Foot – 5 Feet Required)
8	505-1442	2	Elbow – 90°	45	503-1872-02	4	Clamp, Hose
9	155-0899	2	Flange, Companion (2-1/2)	46	503-1620	-	Hose, Fuel – Bulk (Order by the Foot – 20 Feet Required)
10	307-2711	2	Valve, Solenoid (24V)	47	502-1318	1	Adapter, Pipe (M14 x 1/4)
11	130-3773	1	Elbow, Heat Exchanger Outlet	48	309-0635-02	1	Valve, Check
12	130-5265-02	1	Manifold, Heat Exchanger	49	505-0153	1	Coupling, Reducer (3/8 x 1/4)
13	130-3774	1	Manifold, Heat Exchanger Inlet	50	503-2129-06	1	Line, Radiator Vent
14	130-3766	2	Tank, Expansion	51	503-1418	-	Hose, Fuel – Bulk (Order by the Foot – 12 Feet Required)
15	130-0449	2	Cap, Radiator	52	518-0548-08	6	Clamp, Hose
16	130-5266-02	1	Elbow, Heat Exchanger Outlet	53	821-6003-02	6	Screw, Hex Head (M8 x 1.25 x 20)
17	130-5259-02	1	Tube, Water – Lower JW	54	503-0685	10	Clamp, Hose
18	130-5260-02	1	Tube, Water – Upper JW	55	505-0054	5	Plug, Square Head (1/4)
19	130-5261-02	1	Tube, Water – Upper JW	56	850-2016	8	Washer, Lock – Split (M16)
20	130-5262-02	1	Tube, Water – Upper LTA	57	800-0135	8	Screw, Cap – Hex Head (.625-11 x 2.25)
21	130-5263-02	1	Tube, Water – Lower LTA	58	862-0007	8	Nut, Hex (.63-11)
22	502-1146	3	Elbow – 45° (3/8 x 3/8)	59	155-2503	4	Gasket, Flange
23	505-1429	3	Nipple, Combination	60	155-2514	2	Gasket, Flange
24	505-0011	5	Elbow, Street – 90° (1/4)	61	505-0019	2	Bushing, Reducer (1/2 x 3/8)
25	502-1162	5	Fitting, Barbed Hose	62	504-0028	2	Cock, Drain (3/8)
26	C0720112300	8	Screw, Cap – Hex Head (M16 x 2 x 60)	63	332-2921	2	Clamp, J
27	526-0259-02	8	Washer, Flat (M16)	64	518-0561	2	Clamp
28	862-0026-58	8	Nut, Hex (M16 x 2)	65	338-3933	1	Harness, Heat Exchanger
29	720-1146	8	Screw, Cap – Hex Head (M20 x 2.5 x 60)	66	504-0175	2	Valve, Gate (2.5")
30	800-2208	8	Screw, Cap – Hex Head (M20 x 2.5 x 70)	67	155-3289	1	Clamp, Muffler (3")
31	526-0399-76	32	Washer, Flat (M20)	68	130-5305-02	1	Bracket, Vent Line
32	850-2020	16	Washer, Lock – Split (M20)	69	526-0026	2	Washer, Flat (3/8)
33	860-2013	8	Nut, Hex (M20 x 2.5)	70	860-2023-01	8	Nut, Hex (M20 x 2.5)
34	526-0027	64	Washer, Flat (3/4)				
35	850-0079	32	Washer, Lock (3/4)				
36	800-0160	32	Screw, Cap – Hex Head (3/4-10 x 3.25)				
37	862-0008	32	Nut, Hex (3/4-10)				

Remote Radiator Spec A-B

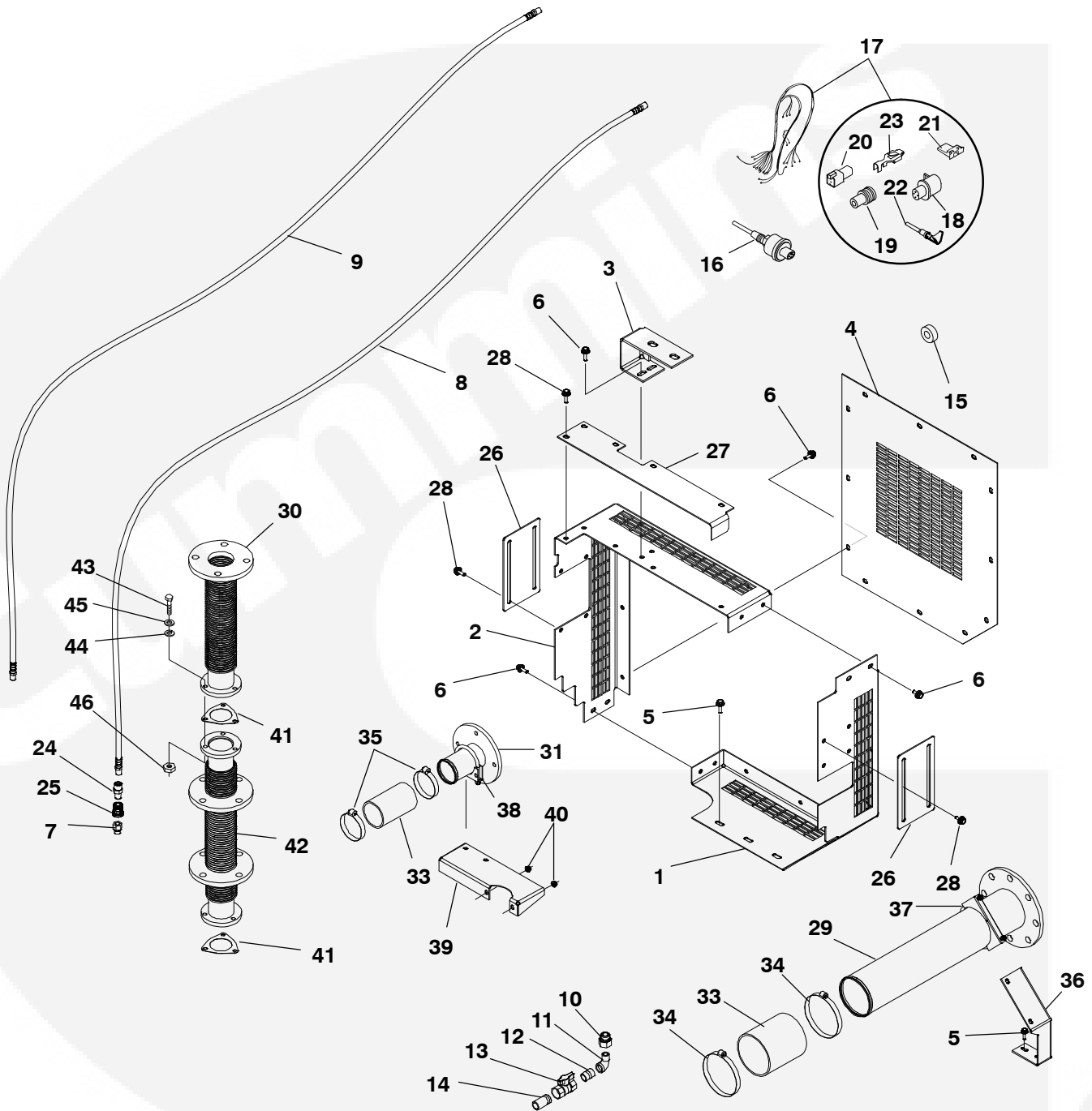


Remote Radiator Spec A-B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5069-02	1	Guard, Damper (Left Side)	27	503-2129-05	1	Line, Vent – Flexible – With One Male Pipe Swivel and One Female Pipe Swivel With O-Ring Face Seal (1/4" ID x 94-1/2") Right Side
2	130-5071-02	1	Guard, Damper (Right Side)	28	502-1326	1	Adapter, Pipe (M33 x 3/4")
3	130-5145-02	1	Bracket, Guard	29	505-0051	1	Elbow, Pipe – Street – 90 Deg (3/4")
4	130-5070-02	1	Cover, Damper	30	505-0057	1	Nipple, Pipe (3/4" x 1-3/8")
5	821-6003-03	5	Screw, Self-Locking – Hex Washer Head (M8 x 25mm)	31	504-0171	1	Valve, Shutoff (3/4")
6	821-6003-02	19	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)	32	505-0324	1	Nipple, Pipe – Half (3/4")
7	502-1318	1	Adapter, Pipe – Brass (M14 x 1/4" Pipe)	33	370-4081	8	Spacer (1/2" x 1/2") Used With Crankshaft Pulley Mounting Bolts
8	503-2129-04	1	Line, Vent – Flexible – With Two Male Pipe Swivel Fittings (1/4" ID x 94-1/2") Left Side	34	193-0486	1	Sender, Low Coolant Level
9	130-4517	1	Tube, Water Inlet (26" Long)	35	338-3832	1	Harness, Wiring – Low Coolant Level Sender (4 Wire, 169") (Includes Parts Marked *)
10	130-3687	3	Tube, Water Outlet	36	323-1765	1	* Connector, Housing – 4 Place (Station 20)
11	130-5081-02	1	Tube, Water Inlet (5" Long)	37	323-1708	4	* Seal, Cable (Used With Station 20)
12	503-1726	1	Hose (5" ID x 6")	38	323-1549	1	* Connector, Receptacle – 4 Place (Inline G)
13	503-1728	1	Hose (3" ID x 5-1/2")	39	323-1547	1	* Wedge, Receptacle (Used With Inline G)
14	503-1872-09	2	Clamp, Hose (5" ID)	40	323-1491	4	* Pin, Contact (Used With Inline G)
15	503-1872-05	2	Clamp, Hose (3" ID)	41	323-1709	4	* Socket, Contact (Used With Station 20)
16	155-3290	1	Clamp, Tube (5" ID)				
17	130-5168-02	1	Bracket, Tube				
18	155-3289	1	Clamp, Tube (3" ID)				
19	130-5082-02	1	Bracket, Mounting				
20	870-2065-03	2	Nut, Hex (M8)				
21	304936400	6	Gasket				
22	130-5084-02	3	Tube, Water Outlet				
23	800-3017-41	9	Screw, Cap – Hex Head (M10 x 45mm)				
24	526-0399-62	9	Washer, Flat (M10)				
25	850-0114-55	9	Washer, Lock – Spring (M10)				
26	862-0026-56	9	Nut, Hex (M10)				

* – Parts Included In 338-3832 Wiring Harness

Remote Radiator Spec C

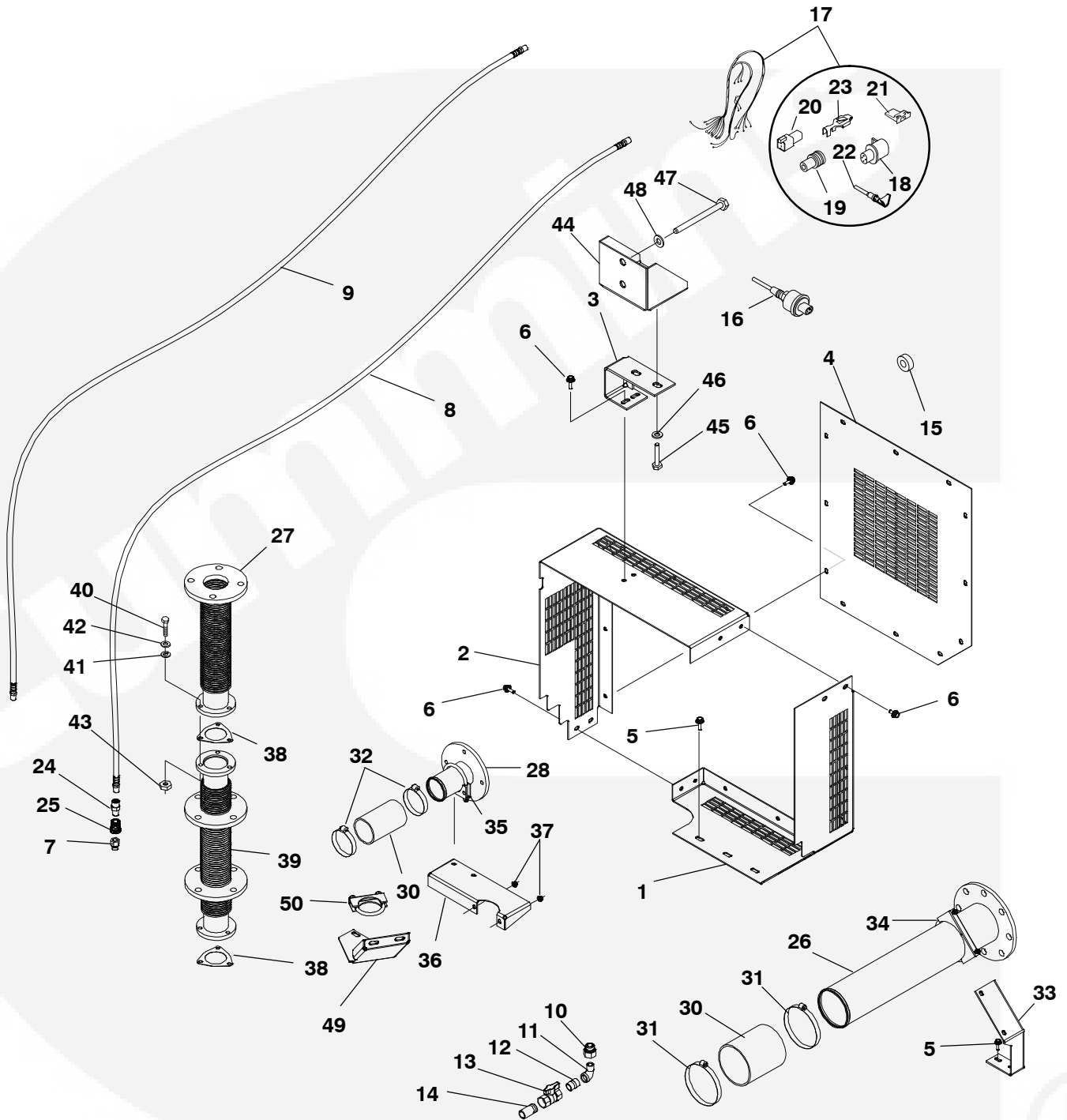


Remote Radiator Spec C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5279-02	1	Guard, Damper (Left Side)	23	323-1709	4	* Socket, Contact (Used With Station 20)
2	130-5280-02	1	Guard, Damper (Right Side)	24	309-0635-02	1	Valve, Check
3	130-5281-02	1	Bracket, Guard	25	505-0153	1	Coupling, Reducer (3/8 x 1/4)
4	130-5282-02	1	Cover, Damper	26	130-5390-02	2	Plate, Cover
5			Screw, Hex Head (M8 x 1.25 x 25)	27	130-5393-02	1	Plate, Cover (Top)
	821-6003-03	3	Without Flanges	28	821-6003-01	13	Screw, Hex Head (M8 x 1.25 x 16)
	821-6003-03	5	With Flanges	29	130-4517	1	Tube, Water Inlet
	821-6003-03	5	With Heat Exchanger	30	130-3687	3	Tube, Water Outlet
6	821-6003-02	18	Screw, Hex Head (M8 x 1.25 x 20)	31	130-5081-02	1	Tube, Water Inlet
7	502-1318	1	Adapter, Pipe (M14 x 1/4)	32	503-1726	1	Hose, Radiator (5.00 x 6.00)
8	503-2129-05	1	Line, Radiator Vent	33	503-1728	1	Hose, Radiator (3.00 x 5.50)
9	503-2129-04	1	Line, Radiator Vent	34	503-1872-09	2	Clamp, Hose
10	502-1326	1	Adapter, Pipe (M33 x 3/4)	35	503-1872-05	2	Clamp, Hose
11	505-0051	1	Elbow, Street - 90° (3/4)	36	130-5168-02	1	Bracket, Tube
12	505-0102	1	Nipple, Pipe (3/4 x 1.38)	37	155-3290	1	Clamp, Muffler (5")
13	504-0171	1	Valve	38	155-3289	1	Clamp, Muffler (3")
14	505-0324	1	Nipple, Half (3/4)	39	130-5082-02	1	Bracket, Water Inlet
15	370-4081	8	Spacer	40	870-2065-03	2	Nut, Hex - Flange (M8)
16	193-0486	1	Sender, Low Coolant Level	41	304936400	6	Gasket
17	338-3832	1	Harness, Wiring - Low Coolant Level Sender (4 Wire, 169") (Includes Parts Marked *)	42	130-5084-02	3	Tube, Water Outlet
18	323-1765	1	* Connector, Housing - 4 Place (Station 20)	43	800-3017-41	9	Screw, Cap - Hex Head (M10 x 1.5 x 45)
19	323-1708	4	* Seal, Cable (Used With Station 20)	44	526-0399-62	9	Washer, Flat (M10)
20	323-1549	1	* Connector, Receptacle - 4 Place (Inline G)	45	850-0114-55	9	Washer, Lock - Split (M10)
21	323-1547	1	* Wedge, Receptacle (Used With Inline G)	46	862-0026-56	9	Nut, Hex (M10 x 1.5)
22	323-1491	4	* Pin, Contact (Used With Inline G)				

* - Parts Included In 338-3832 Wiring Harness

Remote Radiator Begin Spec D

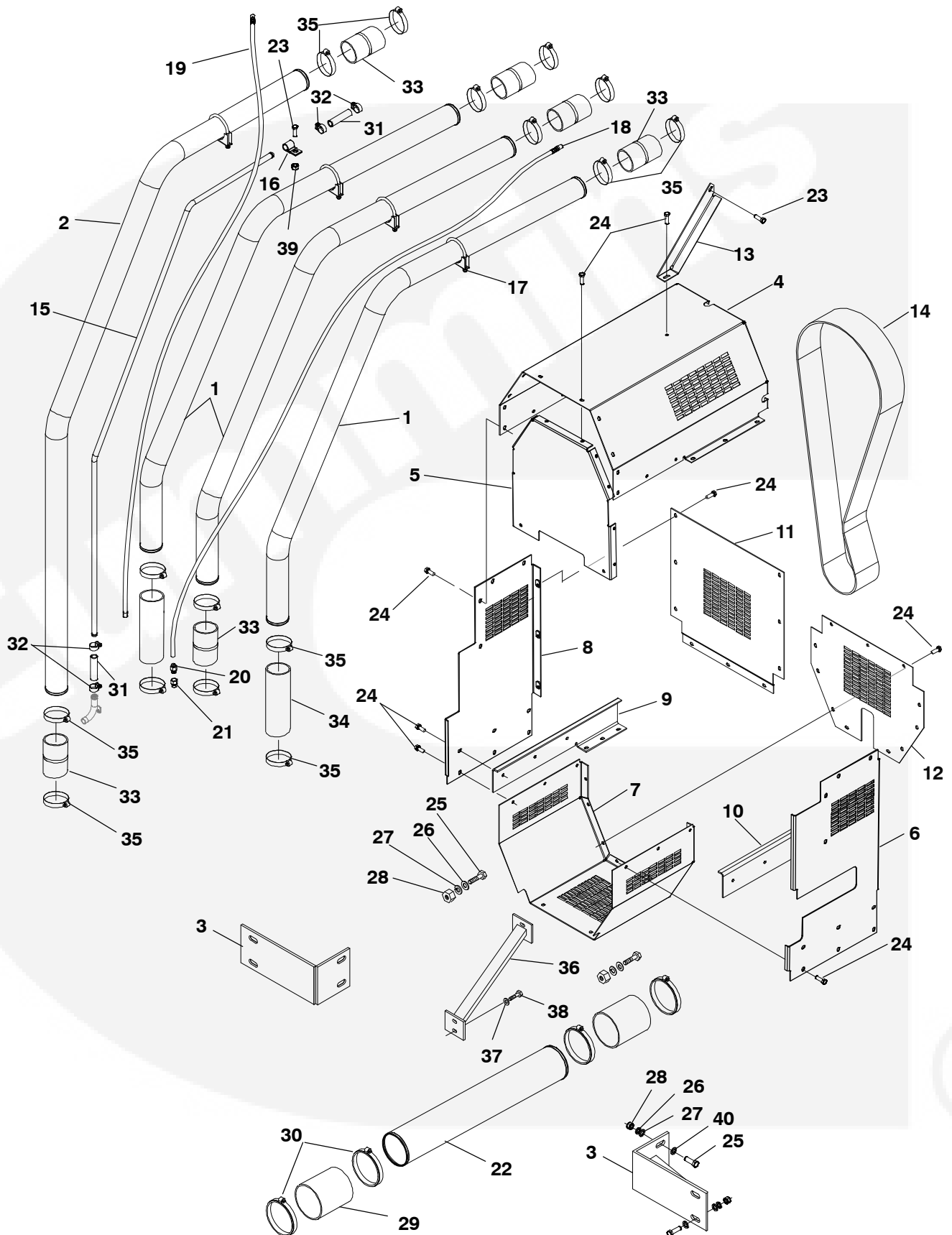


Remote Radiator Begin Spec D

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	505-0153	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
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	304936400	6	Gasket
13	504-0171	1	Valve	39	130-5084-02	3	Tube, Water Outlet
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) (With Flanges)
				50	155-4031	1	Clamp, Exhaust (2-1/8) (With Flanges)

* - Parts Included In 338-3832 Wiring Harness

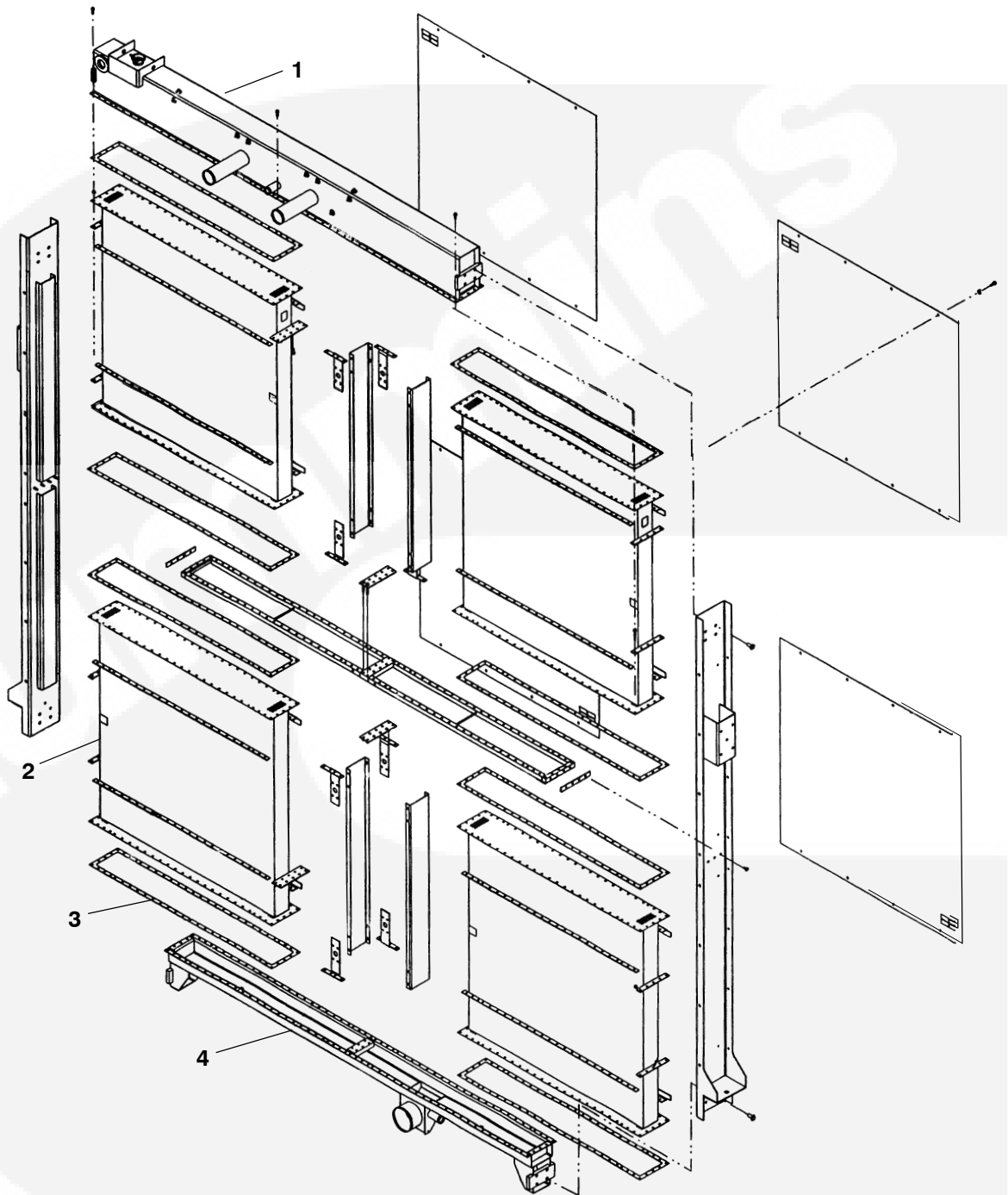
Radiator Tubes Spec A



Radiator Tubes Spec A

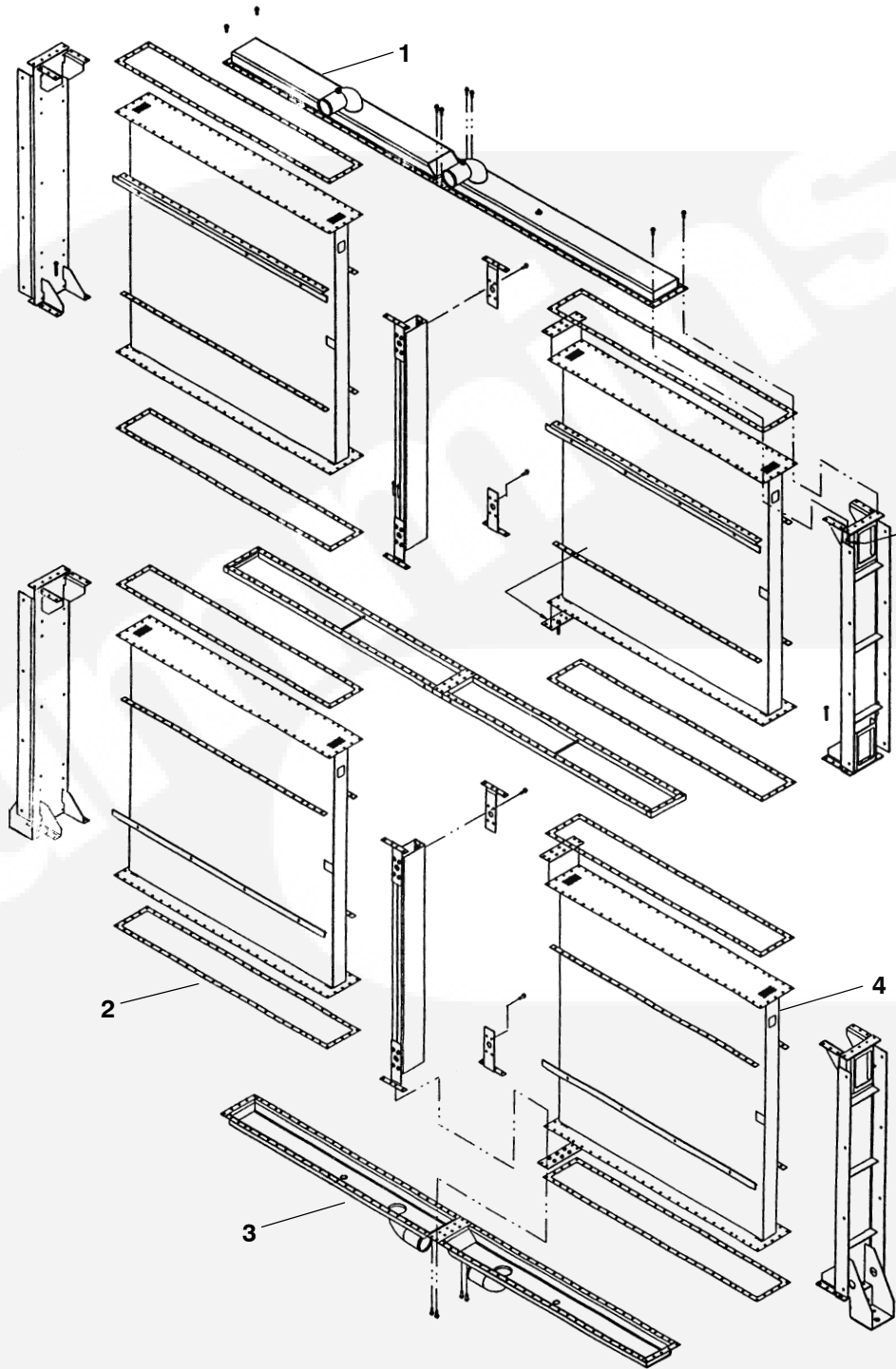
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4908-02	3	Tube, Radiator	21	502-1318	1	Adapter, Pipe (M14 x 1/4" Pipe)
2	130-4914-02	1	Tube, Radiator	22	130-5067-02	1	Tube, Radiator - Lower
3	130-4919-02	2	Brace, Skid	23	821-6003-03	2	Screw, Self-Locking - Hex Washer Head (M8 x 25mm)
4	130-4921-02	1	Guard, Fan Drive - Upper	24	821-6003-02	56	Screw, Self-Locking - Hex Washer Head (M8 x 20mm)
5	130-4934-02	1	Guard, Fan Drive - Rear	25	720-1146	16	Screw, Cap - Hex Head (M20 x 60mm)
6	130-4936-02	1	Guard, Fan Drive - Left Side	26	526-2203	8	Washer, Flat (M20)
7	130-4937-02	1	Guard, Fan Drive - Bottom	27	850-2020	16	Washer, Lock - Spring (M20)
8	130-4935-02	1	Guard, Fan Drive - Right Side	28	860-2013	16	Nut, Hex (M20)
9	130-4946-02	1	Bracket, Guard - Right Side	29	503-1726	2	Hose, Radiator (5" ID x 6")
10	130-4947-02	1	Bracket, Guard - Left Side	30	503-1872-09	4	Clamp, Hose
11	130-4950-02	1	Guard, Fan Drive - Front - Upper	31	503-3062-01	2	Hose, Rubber
12	130-4951-02	1	Guard, Fan Drive - Front - Lower	32	503-1136	4	Clamp, Hose
13	130-4966-02	1	Bracket, Shroud Guard - Upper	33	503-1728	6	Hose, Radiator (3" ID x 5-1/2")
14	511-0161-17	1	Belt, V Ribbed	34	503-1727	2	Hose, Radiator (3" ID x 10")
15	130-5045-02	1	Tube, Fill	35	503-1872-05	16	Clamp, Hose
16	518-0548-19	1	Clamp, Retainer (3/4" ID)	36	130-5085-02	1	Bracket, Post
17	155-3289	4	Clamp, Tube (3" ID)	37	526-0399-62	4	Washer, Flat (M10)
18	503-2129-03	1	Line, Radiator Vent (1/4" ID x 101")	38	800-3017-38	4	Screw, Cap - Hex Head (M10 x 30mm)
19	503-2129-05	1	Line, Radiator Vent (1/4" ID x 94-1/2")	39	870-2065-03	1	Nut, Hex (M8 x 1.25)
20	309-0635-02	1	Valve, Check (1/4" Pipe to 3/8" Pipe)	40	526-0238-01	8	Washer, Flat

Jacketwater Spec A



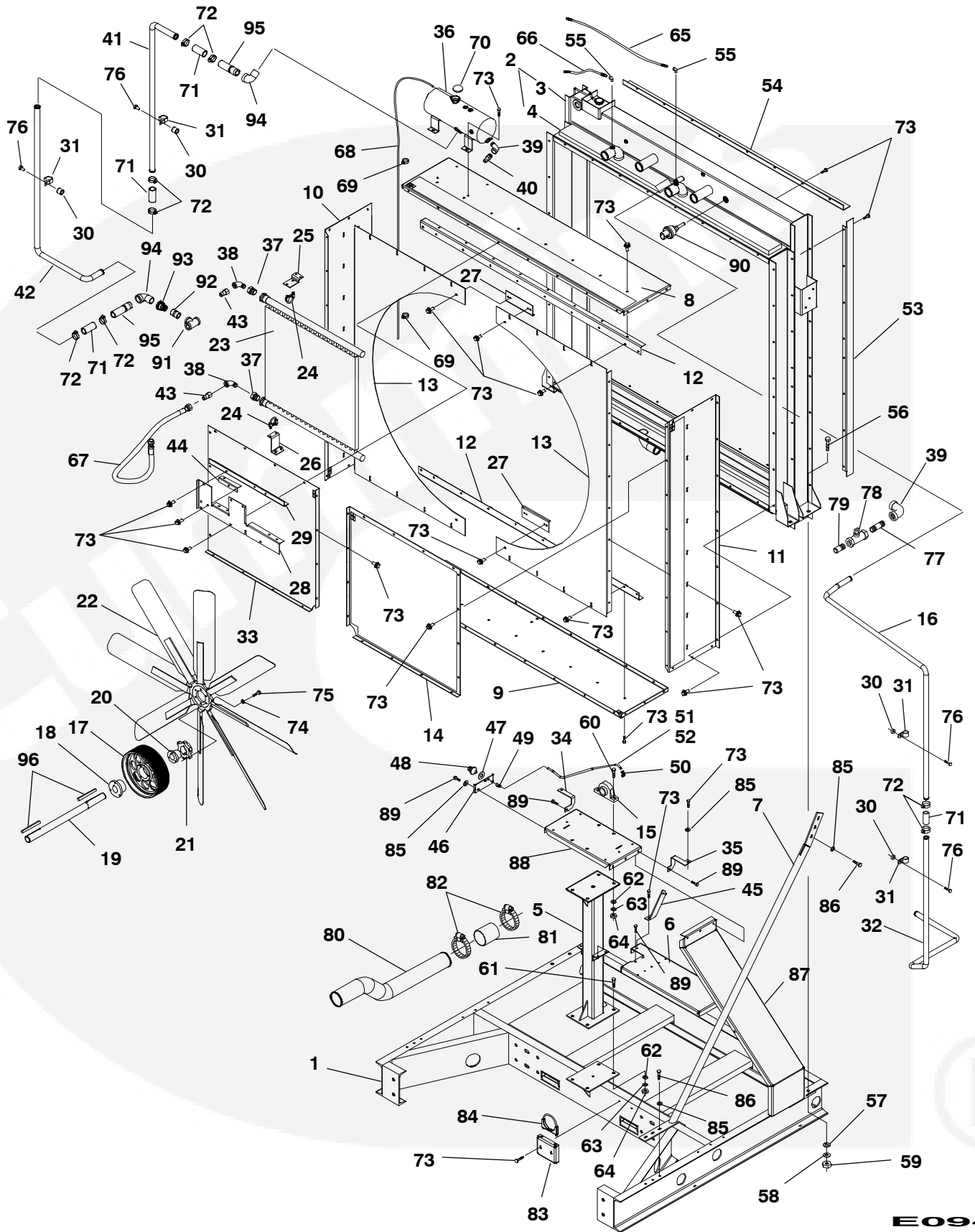
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	130-5101	1	Jacketwater – Complete (Includes Replaceable Parts Listed Below)	2	130-5096	4	Core
1	130-5097	1	Tank, Top	3	130-5099	8	Gasket
				4	130-5098	1	Tank, Bottom

Aftercooler Spec A



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	130-5102	1	Aftercooler – Complete (Includes Replaceable Parts Listed Below)	2	130-5099	8	Gasket
1	130-5104	1	Tank, Top	3	130-5103	1	Tank, Bottom
				4	130-5105	4	Core

Radiator Spec A



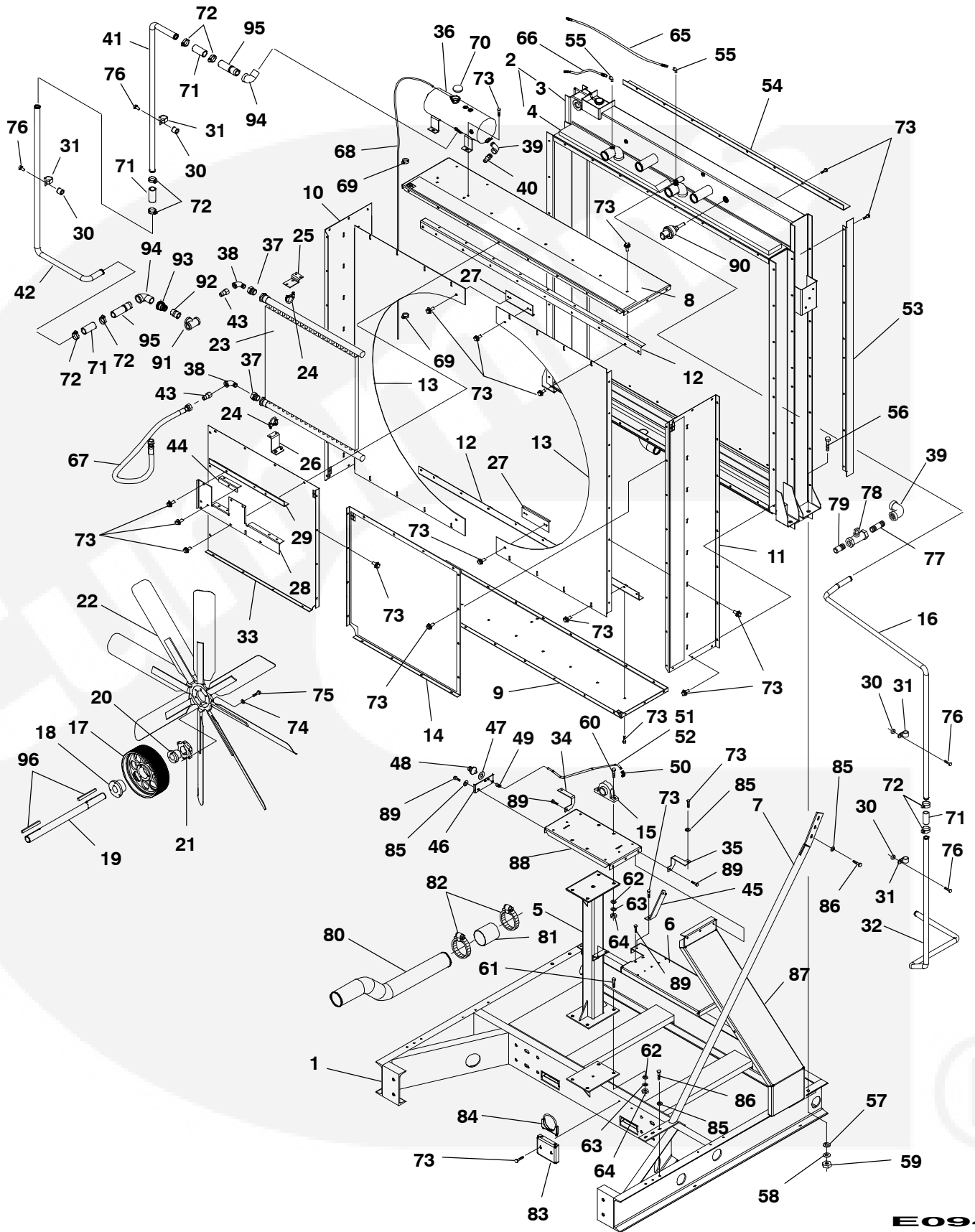
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Radiator Spec A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4896-02	1	Skid, Radiator	38	505-0003	2	Elbow, Pipe – Street (1")
2	130-4885	1	Radiator (Includes Jacketwater, Aftercooler, Cap, Overflow Hose and Sight Gauge Service Parts)	39	505-0051	3	Elbow, Pipe – 90 Deg (3/4")
				40	502-0836	1	Fitting, Brass – Hose – Barbed (3/4" Pipe to 3/4" Hose)
	130-3588	1	Radiator Cap (Not Illustrated)	41	130-5119-02	1	Tube, Fill – Upper
				42	130-5118-02	1	Tube, Fill – Lower
	503-1418	–	Overflow Hose – Bulk (1/4") (Order By The Foot – 11 Feet Required) (Not Illustrated)	43	502-0656	2	Adapter, Male (1-5/16-12 Tubing to 1" Pipe)
				44	130-4976-02	1	Bracket, Clamp
				45	130-4967-02	1	Bracket, Shroud Guard – Lower
				46	130-5061-02	1	Bracket, Lube
				47	S00060200	2	Washer, Flat (3/8")
	130-4362	1	Sight Gauge Service Parts (Includes Glass Bulb and "O" Ring) (Not Illustrated)	48	518-0064	2	Fitting, Grease
				49	505-1435	2	Connector, Pipe – Female (1/8")
				50	505-1436	2	Connector, Pipe – Elbow (1/8")
3	–	1	Jacketwater (See Separate Page For Components)	51	503-1745	–	Hose – Bulk – Front Grease Fitting (Order By The Foot – 2 Feet Required)
4	–	1	Aftercooler (See Separate Page For Components)	52	503-1745	–	Hose – Bulk – Rear Grease Fitting (Order By The Foot – 2 Feet Required)
5	130-5037-02	1	Post, Fan Drive				
6	130-5036-02	2	Tray, Fan Drive – Lower				
7	130-4897-02	2	Support, Radiator	53	130-4938-02	2	Adapter, Duct – Sides
8	130-4900-02	1	Shroud, Fan – Top	54	130-4939-02	2	Adapter, Duct – Top and Bottom
9	130-4900-04	1	Shroud, Fan – Bottom				
10	130-4901-04	1	Wrapper, Fan Shroud – Right Side	55	505-0011	5	Elbow, Pipe – Street – 90 Deg (1/4")
11	130-4901-02	1	Wrapper, Fan Shroud – Left Side	56	800-2206	4	Screw, Cap – Hex Head (M20 x 60mm)
12	130-4902-02	2	Bracket, Fan Shroud	57	526-2203	4	Washer, Flat (M20)
13	130-4903-02	2	Shroud, Fan Face	58	850-2020	4	Washer, Lock – Spring (M20)
14	130-4904-02	2	Guard, Shroud	59	860-2013	4	Nut, Hex (M20)
15	510-0194	2	Bearing, Pillow Block	60	800-2177	4	Screw, Cap – Hex Head (M16 x 60mm)
16	130-4910-02	1	Tube, Fill – Upper				
17	130-4888-02	1	Pulley, Fan	61	800-2174	4	Screw, Cap – Hex Head (M16 x 45mm)
18	130-3652	1	Bushing, Pulley (Includes Mounting Hardware)	62	526-2183	8	Washer, Flat (M16)
19	130-4920	1	Shaft, Fan Drive	63	850-2016	8	Washer, Lock – Spring (M16)
20	512-0203	1	Bushing, Fan	64	860-2012	8	Nut, Hex (M16)
21	130-4940	1	Hub, Fan	65	503-2129-02	1	Line, Radiator Vent (1/4" ID x 40")
22	130-4940	1	Fan (8 Blade)				
23	130-5064	1	Cooler, Fuel	66	503-2129-01	1	Line, Radiator Vent (1/4" ID x 15")
24	155-3288	4	Clamp (2" ID)				
25	130-4952-02	2	Bracket, Fuel Cooler – Upper	67	501-0678-01	1	Line, Fuel – Flexible (7/8" ID x 89")
26	130-4953-02	2	Bracket, Fuel Cooler – Lower				
27	130-4955-02	2	Support, Shroud	68	503-1418	–	Hose, Rubber – Bulk (1/4" ID) (Order By The Foot – 11 Feet Required)
28	130-4974-02	1	Bracket, Clamp				
29	130-4975-02	1	Bracket, Clamp				
30	130-3660	4	Spacer (1/2" ID x 1-1/4" OD x 3/8" Thk)	69	518-0548-25	2	Clamp, Hose (3/8" ID)
31	518-0633	4	Clip, "J" (1-1/2" ID)	70	130-0449	1	Cap, Expansion Tank
32	130-5032-02	1	Tube, Fill – Lower	71	503-1863	6	Hose, Radiator (1-1/2" ID x 4")
33	130-5033-02	2	Guard, Shroud	72	503-1872-02	12	Clamp, Hose
34	130-5046-02	1	Stiffener, Guard – Right Side				
35	130-5047-02	1	Stiffener, Guard – Left Side				
36	130-5062-02	1	Tank, Expansion				
37	505-0394	2	Bushing, Pipe – Reducer (2" to 1")				

Continued...

Radiator Spec A

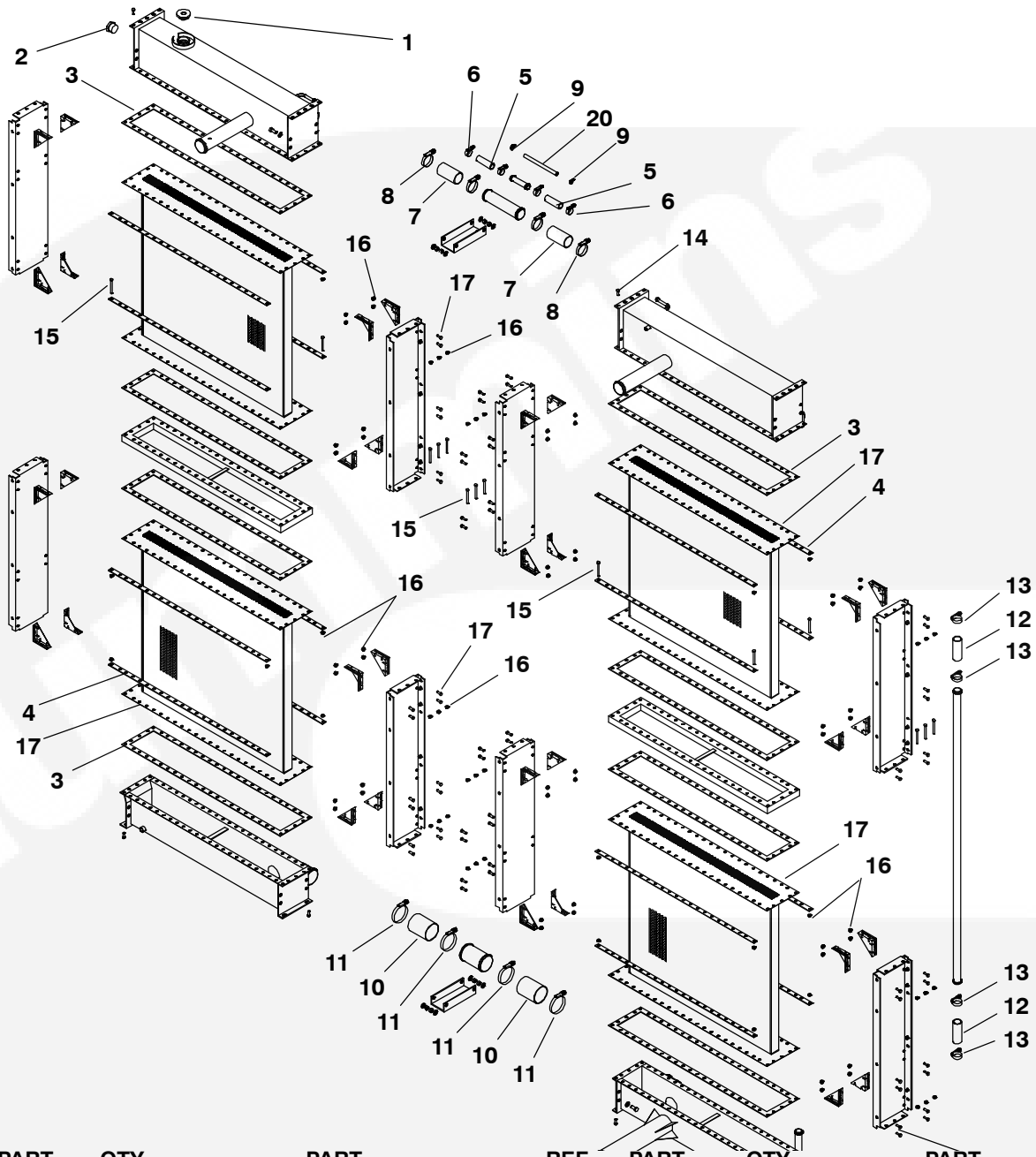


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Radiator Spec A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				87	130-5034-02	2	Mount, Fan Drive – Side
				88	130-5035-02	1	Tray, Fan Drive – Upper
				89	800-3017-37	20	Screw, Cap – Hex Head (M10 x 25mm)
73	821-6003-02	175	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)	90	193-0486	1	Sender, Low Coolant Level
74	526-0219	6	Washer, Flat (1/2")	91	505-0060	1	Tee, Pipe (3/8")
75	800-0094	6	Screw, Cap – Hex Head (1/2-13 x 2")	92	505-0102	1	Nipple, Pipe – Close (3/4")
76	821-6003-03	5	Screw, Self-Locking – Hex Washer Head (M8 x 25mm)	93	505-1561	1	Coupling, Pipe – Reducer (1-1/2" to 3/4")
77	505-0057	3	Nipple, Pipe (3/4" x 1-3/8")	94	505-0462	2	Elbow, Pipe – Street – 90 Deg (1-1/2")
78	504-0171	2	Valve, Shutoff (3/4")	95	505-1429	2	Nipple, Pipe – Combination (1-1/2" Pipe to 1-1/2" Hose)
79	505-0324	2	Nipple, Pipe – Half (3/4")	96	515-0220	2	Key (1/2" x 1/2")
80	130-4907-02	1	Tube, Lower Radiator				
81	503-1726	1	Hose, Radiator (5" ID x 6")				
82	503-1872-09	2	Clamp, Hose				
83	130-5168-02	1	Bracket, Radiator Tube				
84	155-3290	1	Clamp, Tube (5" ID)				
85	526-0399-62	32	Washer, Flat (M10)				
86	800-3017-38	12	Screw, Cap – Hex Head (M10 x 30mm)				

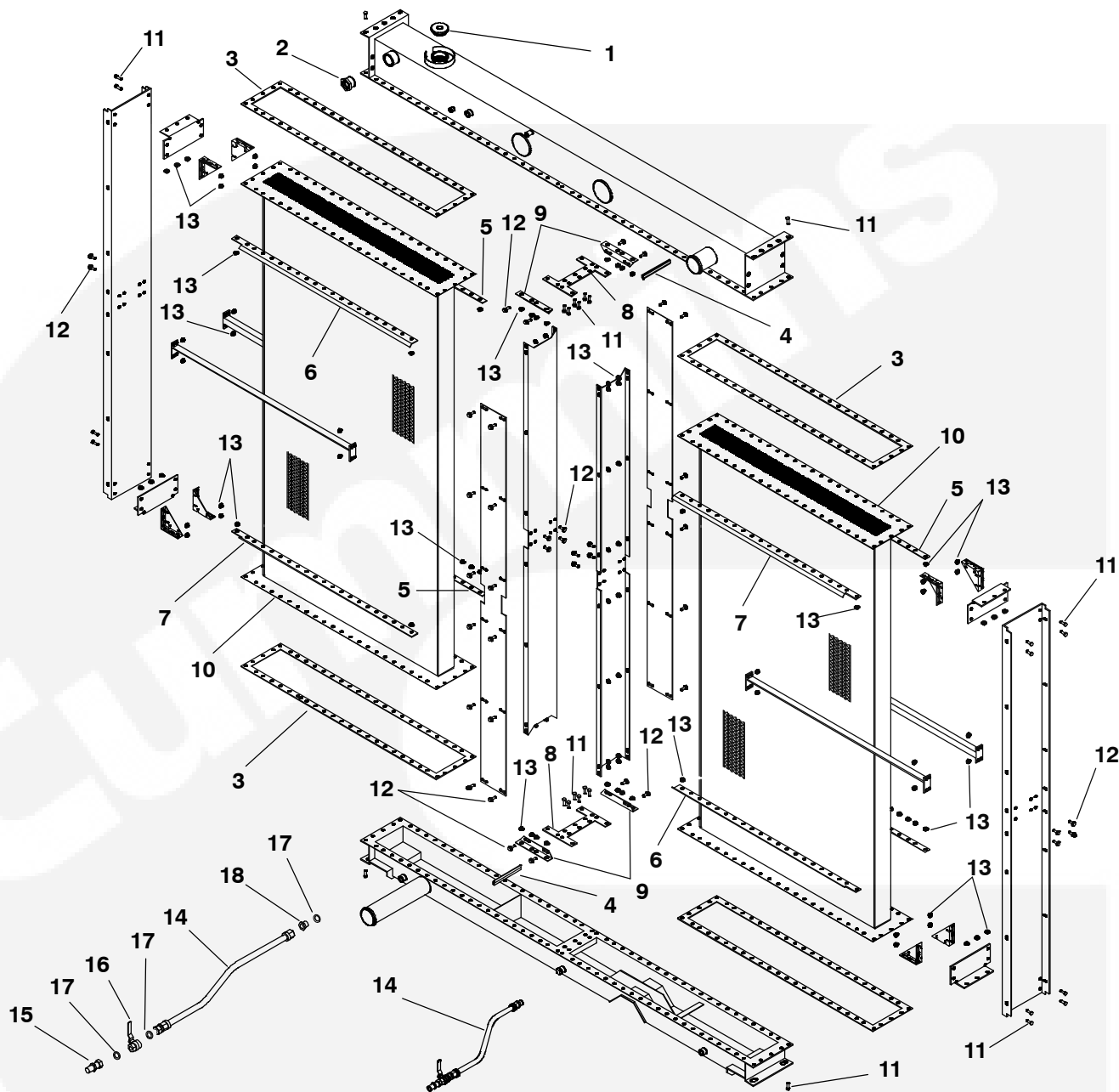
Jacket Water
40°C – Spec B-C; 50°C – Begin Spec D



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5325	1	Cap, Radiator
2	130-5342	1	Sight Glass 1-1/2" NPT
3	130-5326	8	Gasket, NBC
4	130-5327	16	Strap, Tank
5	503-2452	2	Hose – 25.4 ID
6	503-1872-01	4	Clamp, Hose (25-44)
7	503-2451	2	Hose – 57.2 ID
8	503-1872-04	4	Clamp, Hose (57-80)
9	503-1133	2	Clamp, Hose
10	503-2453	2	Hose – 88.9 ID
11	503-1872-07	4	Clamp, Hose (95-117)
12	503-2450	2	Hose – 38.1 ID

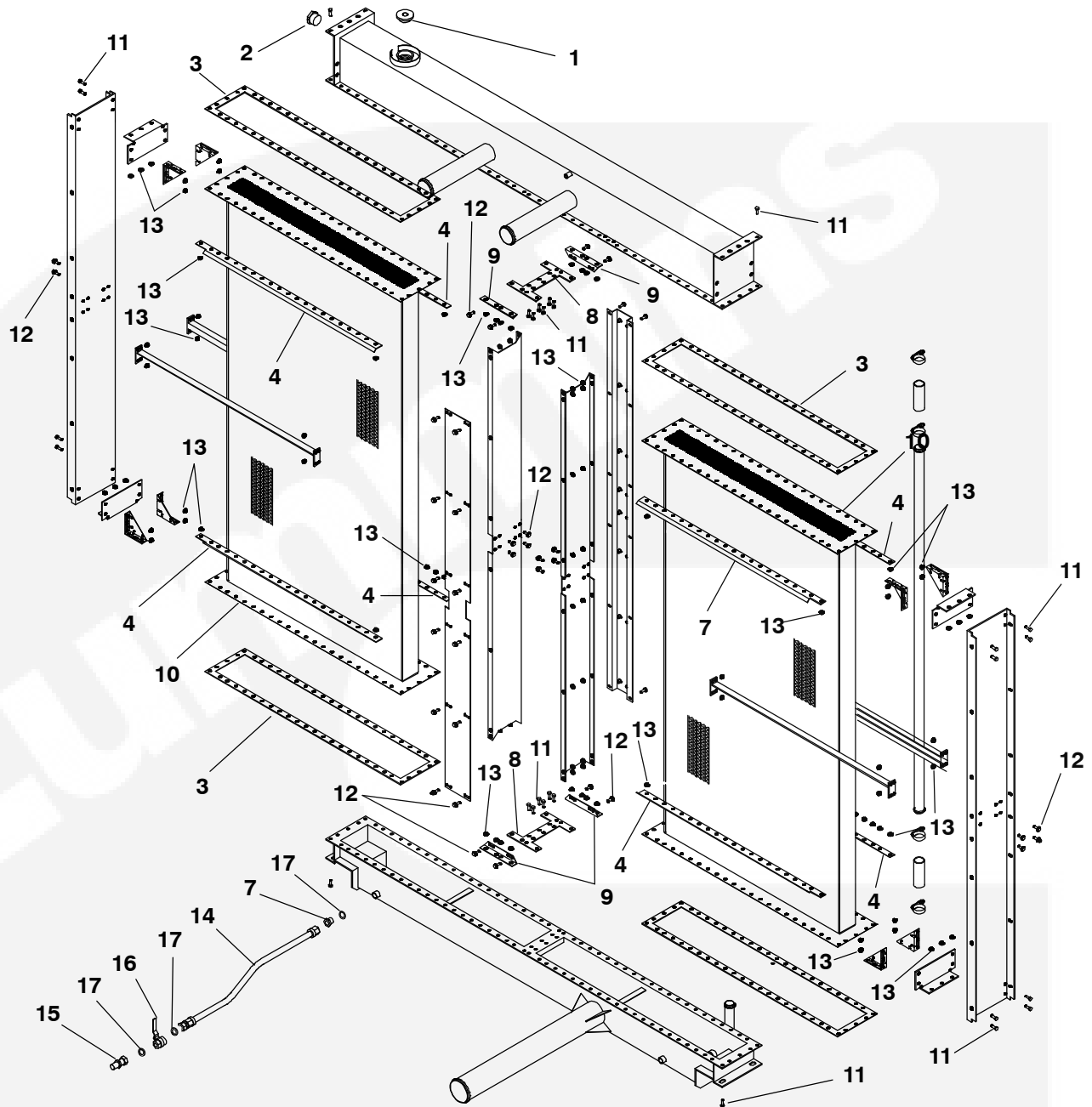
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
13	503-1872-02	4	Clamp, Hose (32-54)
14	800-2058	304	Screw, Set (M8 x 25)
15	800-2069	104	Bolt (M8 x 80)
16	130-5419	408	Nut (M8)
17			Core, Radiator
	130-5968	4	Spec B-C
	130-5709	4	Begin Spec D
18	503-2380	2	Hose – 4" – 8 Deg. – Not Shown
19	130-5323	1	Tube, Vent – Not Shown
20	130-5346	1	Tube, Vent

**LTA 40°C
Begin Spec D**



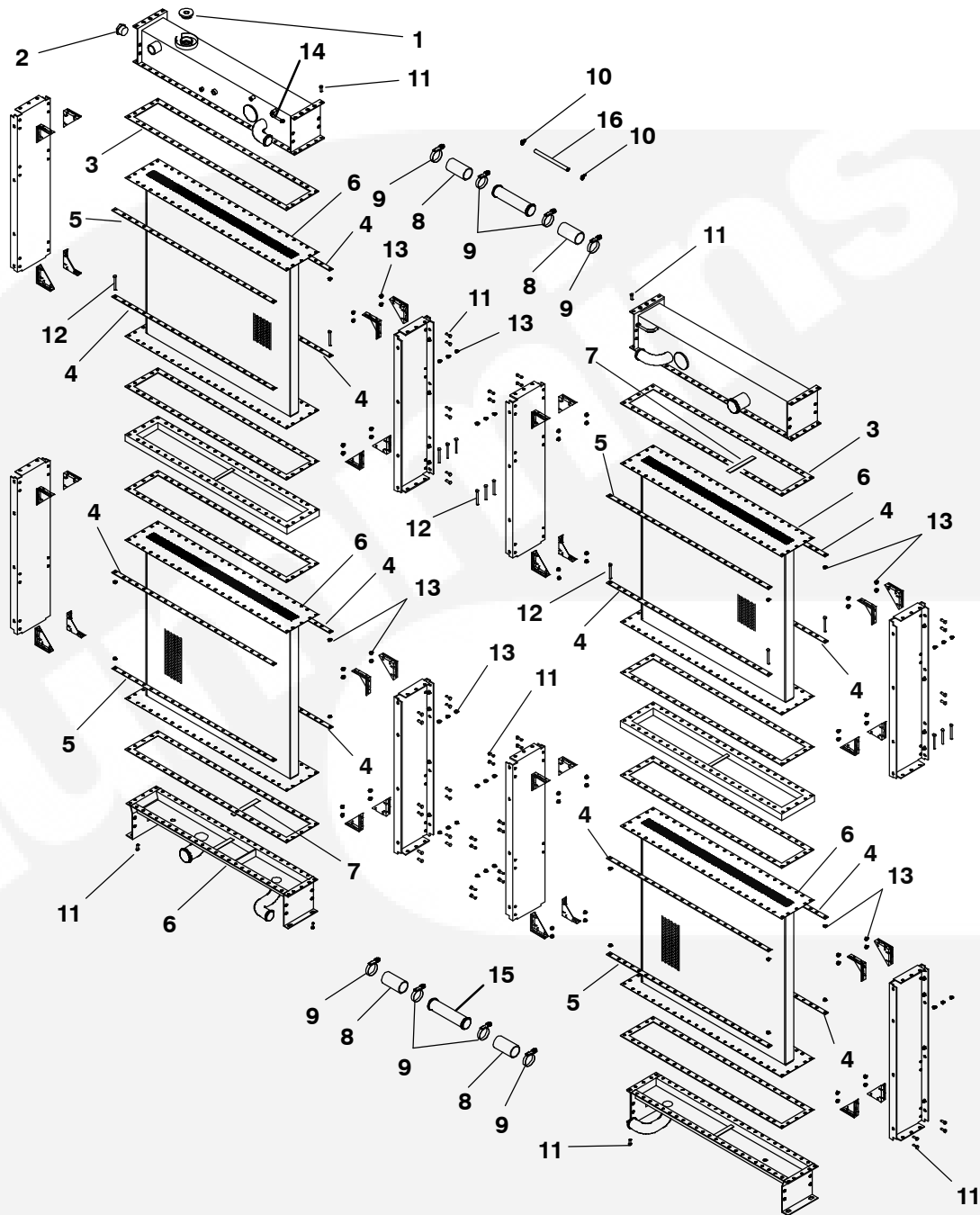
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5325	1	Cap, Radiator	10			Core, Radiator
2	130-5342	1	Sight Glass 1-1/2" NPT	130-5716	2		Spec D (50 Hz & 60 Hz)
3	130-5549	4	Gasket - NBC	130-5969	2		Begin Spec E (50 Hz)
4	130-5973	2	Seal, Radiator (Silicone)	130-5955	2		Begin Spec E (60 Hz)
5	130-5550	4	Strap, Tank	11	800-2058	224	Screw, Set (M8 x 25)
6	130-5551	2	Strap, Tank	12	130-5420	48	Bolt (M8 x 25)
7	130-5552	2	Strap, Tank	13	130-5419	260	Nut (M8)
8	130-5971	2	Plate, Support	14	503-2448	2	Hose, Drain - LTA 1/2"
9	130-5972	4	Bracket - Spec D	15	405-7717	2	Bulkhead, Male 1/2" BSPP
				16	504-0308	2	Valve, Ball 1/2" BSPP
				17	509-0389	6	Washer, Sealing
				18	505-2159	2	Adapter, Male

**Jacket Water 40°C, 50 Hz and 60 Hz
Spec D**



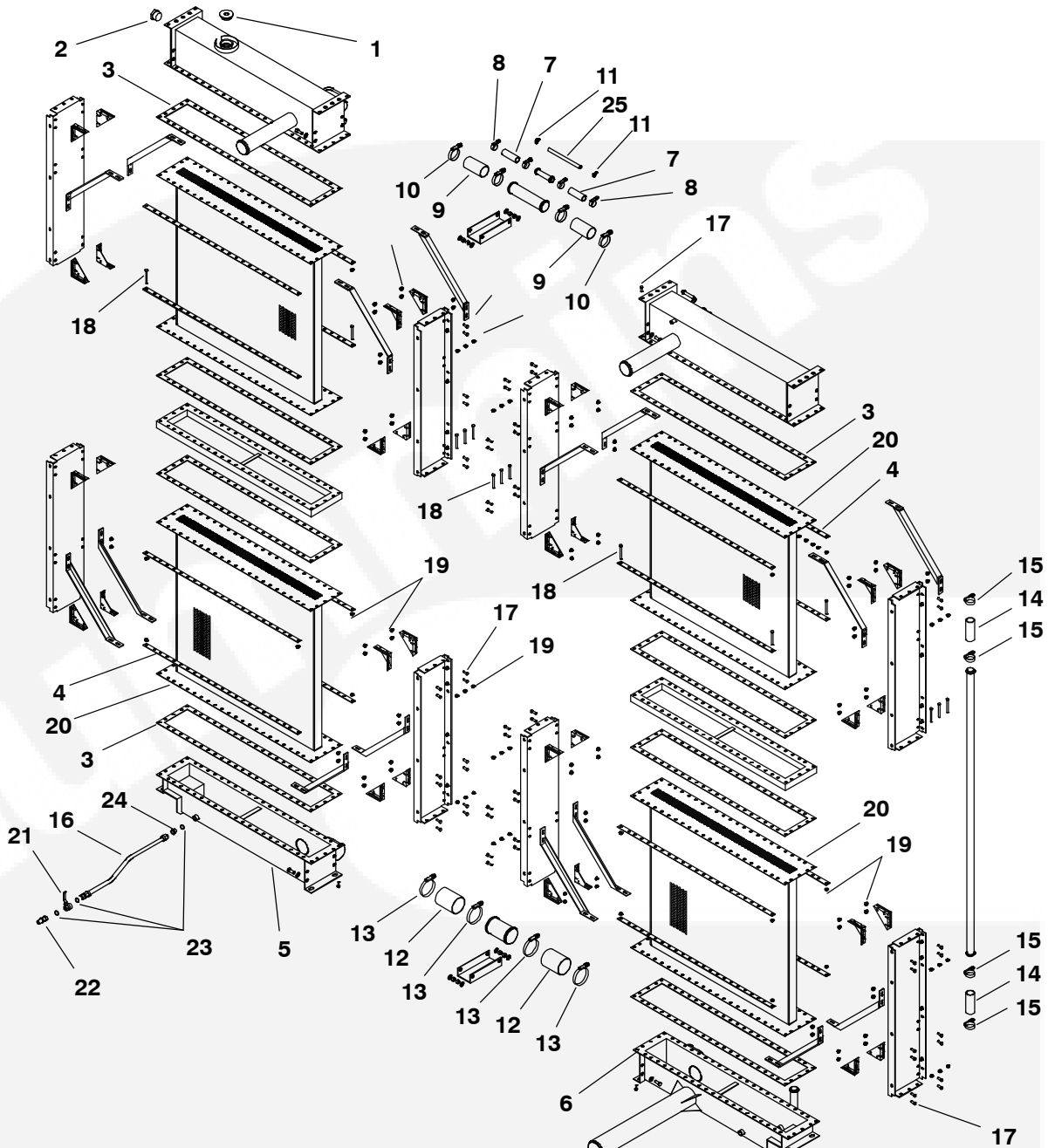
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5325	1	Cap, Radiator	11	800-2058	224	Screw, Set (M8 x 25)
2	130-5342	1	Sight Glass 1-1/2" NPT	12	130-5420	48	Bolt (M8 x 25)
3	130-5326	4	Gasket - NBC	13	130-5419	260	Nut (M8)
4	130-5550	8	Strap, Tank	14	503-2448	2	Hose, Drain - LTA 1/2"
5	503-2450	2	Hose	15	405-7717	2	Bulkhead, Male 1/2" BSPP
6	503-1872-02	4	Clamp	16	504-0308	2	Valve, Ball 1/2" BSPP
7	505-2159	2	Adapter, Male	17	509-0389	6	Washer, Sealing
8	130-5971	2	Plate, Support				
9	130-5972	4	Bracket				
10			Core, Radiator				
	130-5964	2	50 Hz				
	130-5962	2	60 Hz				

LTA Radiator Core
40°C – Spec B-C; 50°C – Begin Spec D



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	503-1133	2	Clamp, Hose
4	130-5327	12	Strap, Tank	11	800-2058	288	Screw, Set (M8 x 25)
5			Strap, Tank	12	800-2069	112	Bolt (M8 x 80)
	130-5328	4	Spec B-C	13	130-5419	400	Nut (M8)
	130-5970	4	Begin Spec D	14	130-5350	1	Tube, Vent
6	130-5710	4	Core, Radiator	15	503-2271	1	Hose, Radiator
7	130-5973	2	Strip, Sealing	16	130-5346	2	Tube, Vent

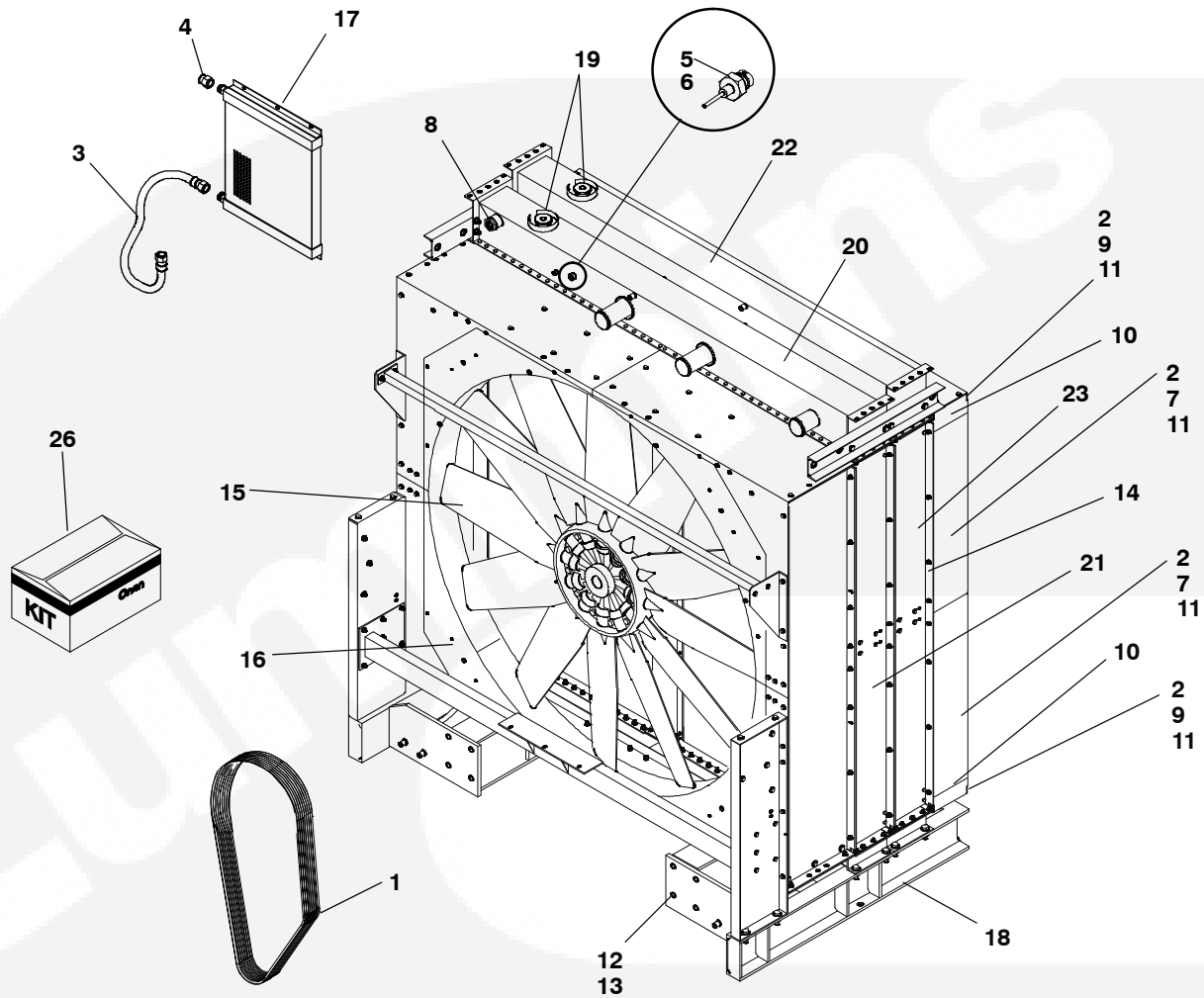
**Jacket Water 40°C, 50 Hz and 60 Hz
Begin Spec E**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5325	1	Cap, Radiator
2	130-5342	1	Sight Glass 1-1/2" NPT
3	130-5549	8	Gasket, NBC
4	130-5959	16	Strap, Tank
5	130-5960	1	Tank, Bottom LH
6	130-5961	1	Tank, Bottom RH
7	503-2452	2	Hose
8	503-1872-01	4	Clamp, Hose
9	503-2451	2	Hose
10	503-1872-04	4	Clamp, Hose
11	503-1133	2	Clamp, Hose
12	503-2453	2	Hose
13	503-1872-07	4	Clamp, Hose
14	503-2450	2	Hose

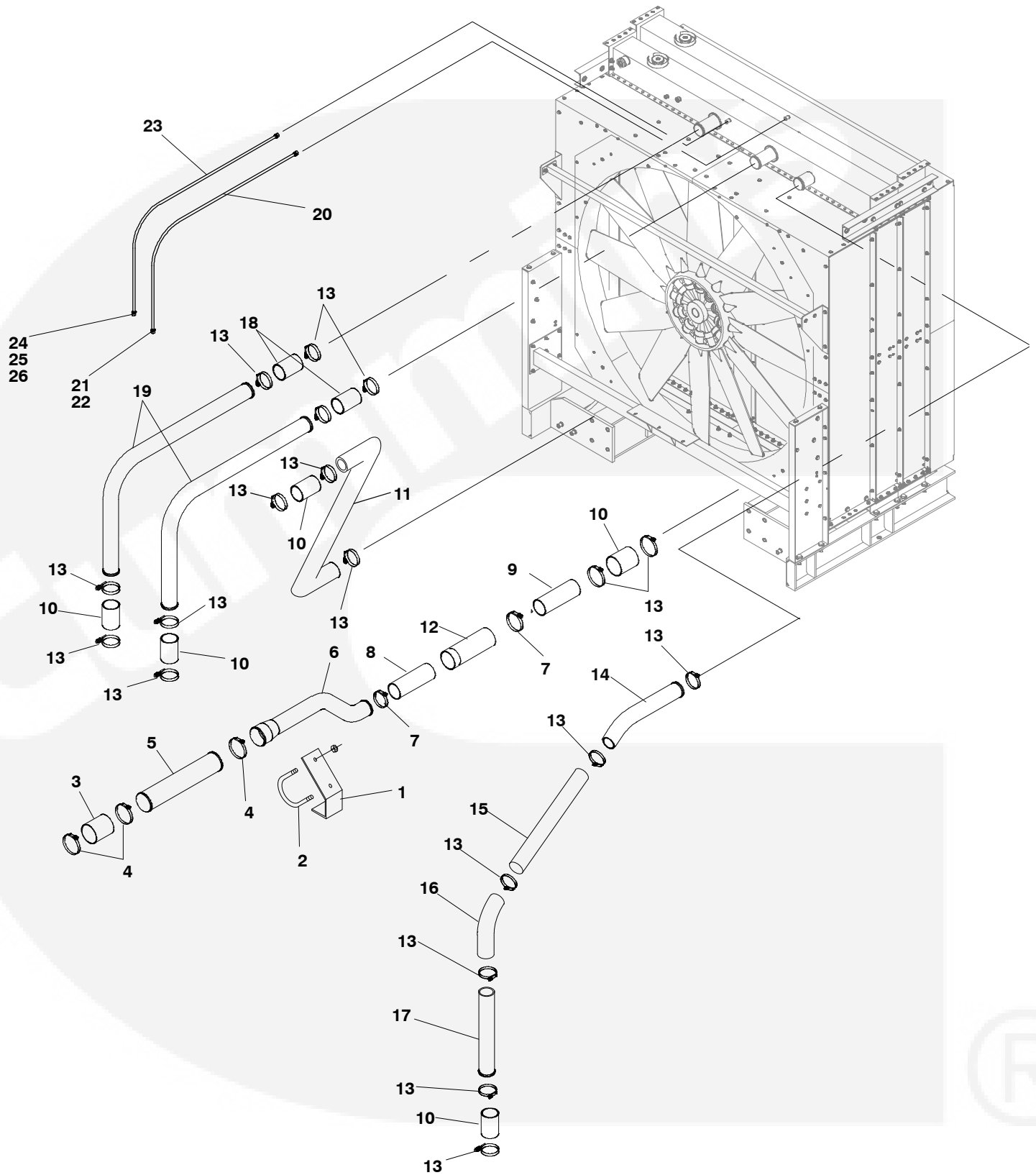
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
15	503-1872-02	4	Clamp, Hose
16	503-2449	1	Hose, Drain (1/2" JW)
17	800-2058	304	Screw, Set (M8 x 25)
18	800-2069	104	Bolt (M8 x 80)
19	130-5419	408	Nut (M8)
20	130-5956	4	Core, Radiator
	130-5953	4	50 Hz
21	504-0308	1	Valve, Ball 1/2"
22	405-7717	1	Bulkhead
23	509-0389	3	Washer, Sealing
24	505-2159	1	Adapter, Male 1/2"
25	130-5346	2	Tube, Vent

Radiator **40°C – Spec B-C**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	179-2801	1	Radiator	13	860-2035	8	Nut, Hex – Nyloc (M20)
1	SP1821220803	1	Belt	14	130-6764	4	Stoneguard
2	130-5420	25	Bolt (M8 x 25)	15	130-5335	1	Fan, Impeller (75")
3	130-5416	1	Line, Fuel	16	130-6765	1	Guard, Radiator Fan
4	130-5417	1	Adapter, Pipe – 1" BSP	17	130-5339	1	Cooler, Fuel
5	309-0713	1	Sender, Low Coolant Level	18	A030S245	1	Frame, Radiator Base
6	338-4694	1	Harness, Low Coolant Level Sender	19	130-5325	2	Cap, Radiator (110KPA)
7	130-6748	4	Duct, Radiator	20	130-8139	1	Slab, LTA
8	130-6749	2	Gauge, Sight	21	130-5710	4	Core, LTA
9	130-6750	4	Duct, Radiator	22	130-8144	1	Slab, J/W
10	130-6751	2	Bracket, Radiator	23	130-5968	4	Core, J/W
11	130-5419	19	Nut, Comby (M8)	24	130-8153	1	Tank, J/W Bottom (LH) (Not Illustrated)
12	526-2304	16	Washer, Flat (M20)	25	130-8154	1	Tank, J/W Bottom (RH) (Not Illustrated)
				26	541-1684	1	Kit, Gasket (J/W & LTA)

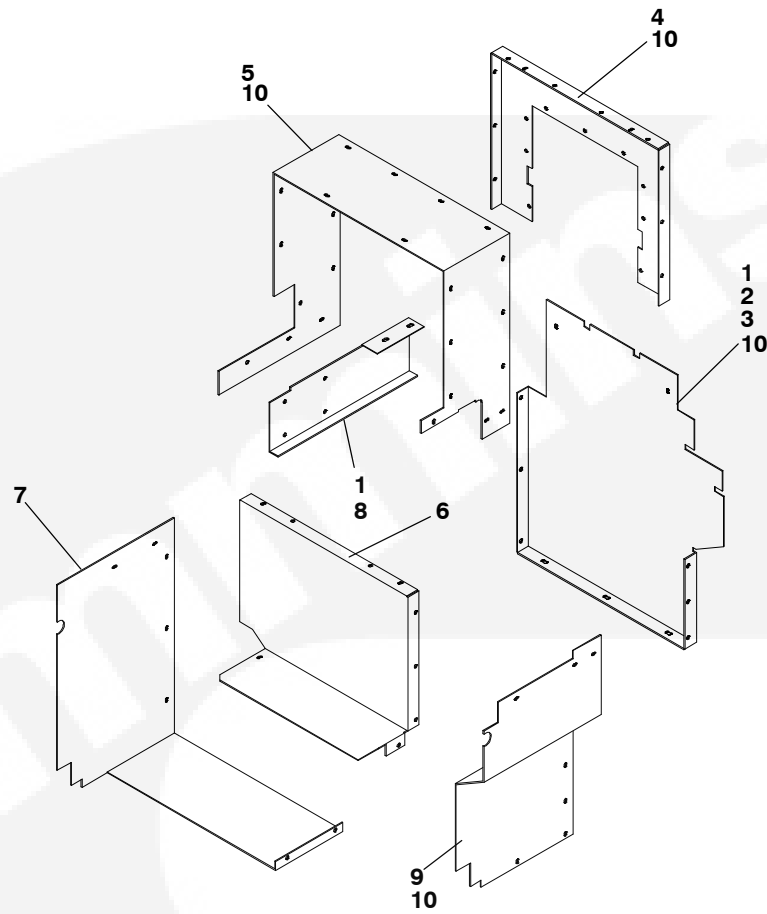
Radiator Hoses **40°C Radiator – Spec B-C**



Radiator Hoses **40°C Radiator – Spec B-C**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6734	1	Bracket, Pipe Support	14	130-5357	1	Hose, LTA Top Pipe – Elbow (Radiator)
2	503-2691	1	Clamp, U-Bolt (5")	15	A030S269	1	Pipe, LTA (76.2 OD)
3	130-5356	1	Hose, J/W – 127 ID (5")	16	130-5358	1	Hose, LTA Top Pipe (Engine)
4	503-2692	3	Clip (133-155)	17	A030S266	1	Pipe, LTA (76.2 OD)
5	130-6770	1	Pipe, J/W – 127 OD	18	503-2280	2	Hose, J/W – 8° (76 ID)
6	503-2454	1	Hose, J/W Reducing (127-101.6)	19	A030S239	2	Pipe, J/W Top – Assy
7	503-2661	3	Clip (95-117)	20	130-5323	1	Line, J/W Vent
8	A030S268	1	Tube, J/W Radiator (101.6 OD)	21	309-0635-02	1	Valve, Check
9	130-5354	1	Hose, J/W (101.6 ID)	22	502-1318	1	Adapter – M14 x 1/4" NPT M/F
10	A030C716	5	Tube, Radiator (76.2 ID x 122mm)	23	130-5323	1	Line, LTA Vent
11	503-2271	1	Hose, LTA Bottom Pipe	24	130-5355	1	Adapter – 1/4 BSPT x 1/4 BSPP M/M
12	A030S262	1	Pipe, LTA (76.2 OD)	25	130-5414	1	Socket, Hex (1/4")
13	503-2641	20	Clip (70-92)	26	130-5415	1	Adapter – 11/16" ORFS – 1/4" BSP F/M

Radiator Guards **40°C Radiator – Spec B-C**



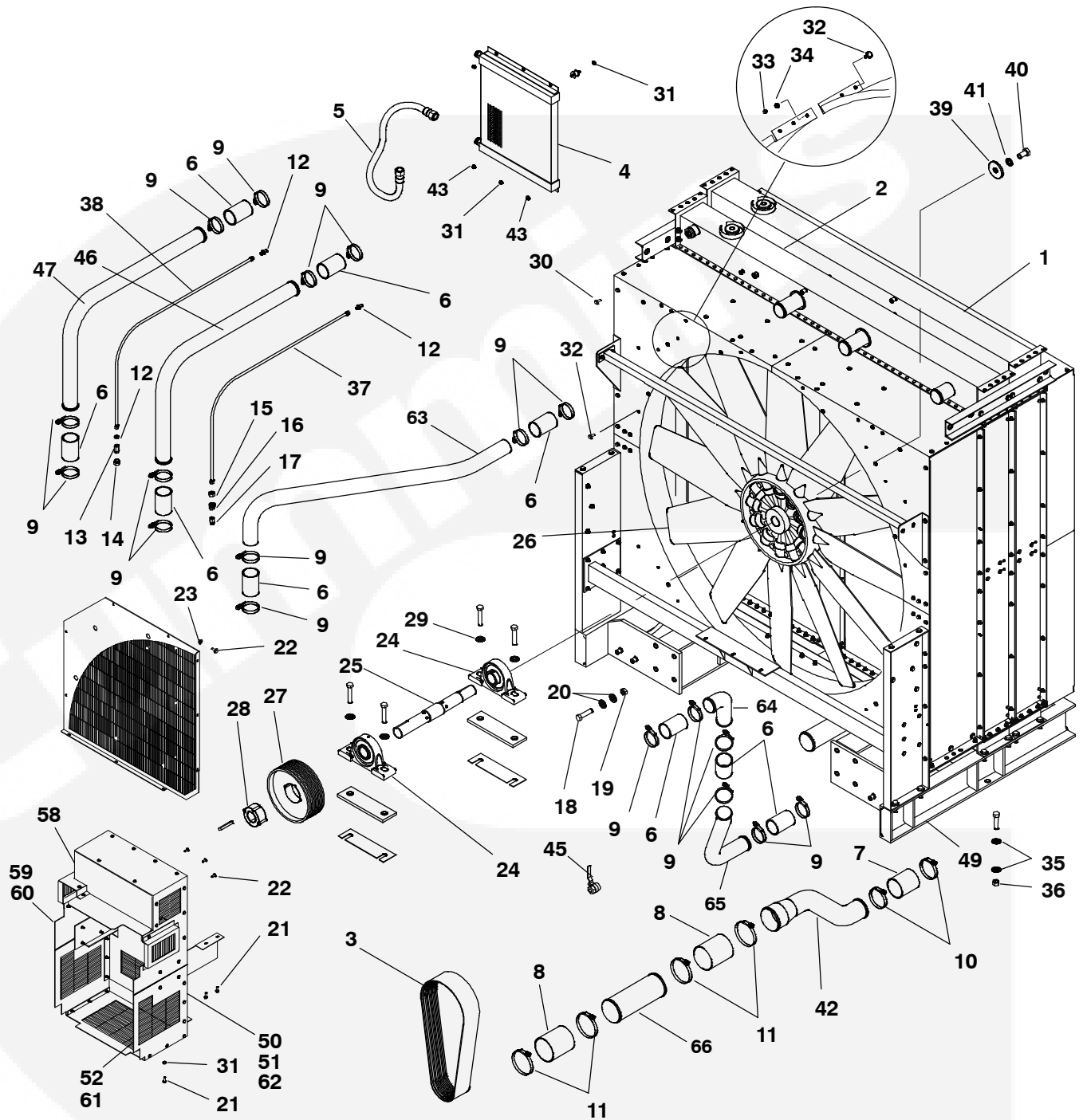
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5420	25	Bolt (M8 x 25)	6	A030S255	1	Guard, Front Panel
2	130-5419	19	Nut, Comby (M8)	7	A030S257	1	Guard, Bottom Panel
3	A030S247	1	Guard, Lower Rear Panel	8	A030S258	1	Guard, Side Bracket – LH
4	A030S250	1	Guard, Upper Rear Panel	9	A030S260	1	Guard, Side Bracket – RH
5	A030S254	1	Guard, Top Panel	10	130-5418	43	Bolt (M6 x 20)



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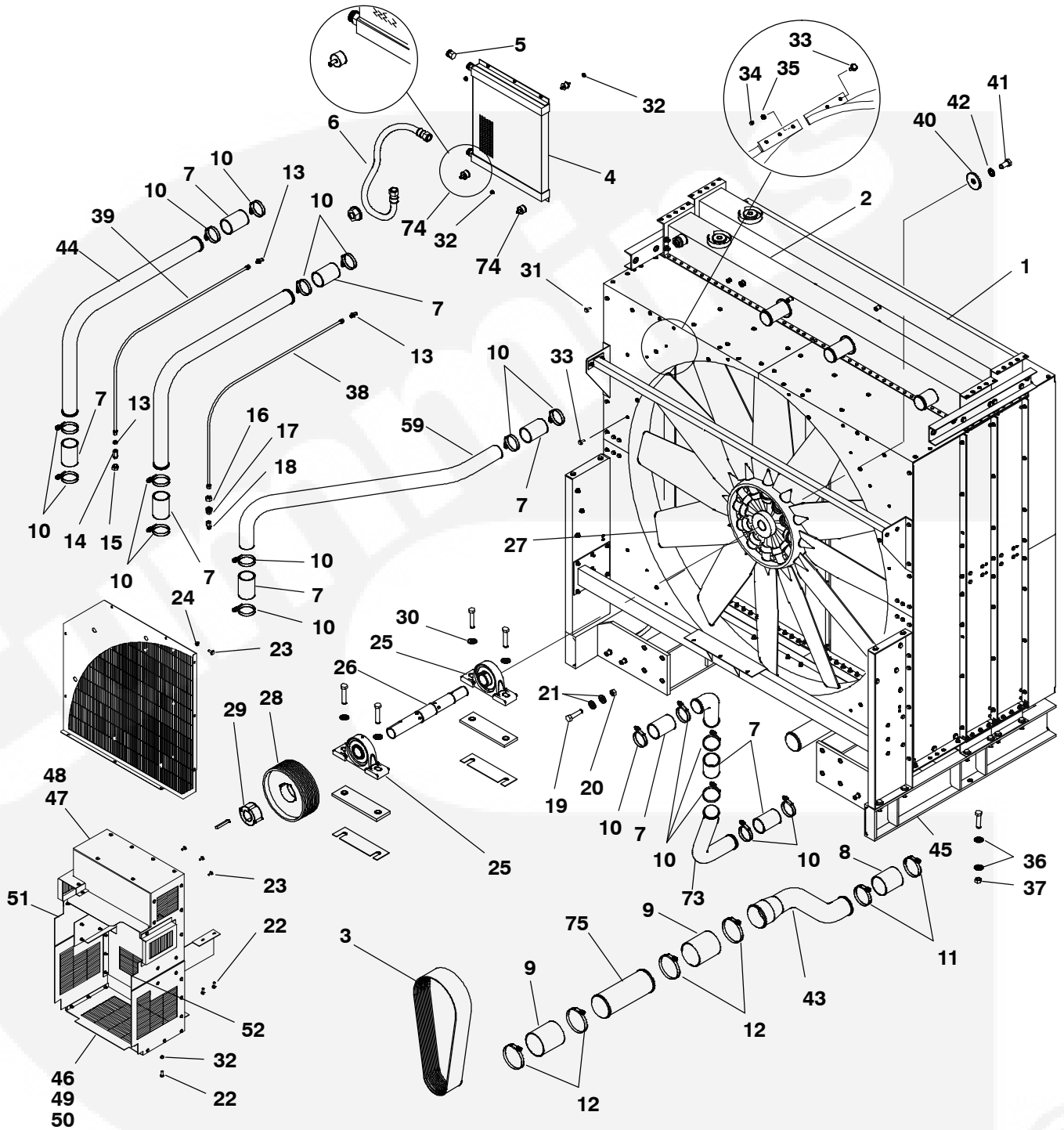
Radiator **50°C – Begin Spec D**



Radiator 50°C – Begin Spec D

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)	37	130-5713	1	Vent Line, Jacket Water
	179-2862	1	50°C, Begin Spec D	38	130-5714	1	Vent Line, LTA
	179-2988	1	50°C, Begin Spec E	39	130-5332	1	Washer, Fan – Machined
1			Slab, Jacket Water – (See Separate Page For Components)	40	130-5334	1	Screw, Set (M20 x 40)
	130-5706	1	Left Side	41	130-5333	1	Washer, Spring (M20)
	130-5705	1	Right Side	42	503-2454	1	Hose, "S" (4" to 5" ID)
2			Slab, LTA (See Separate Page For Components)	43	130-5340	2	Isolator, Vibration (Fuel Cooler)
	130-5708	1	Left Side	44	130-5346	1	Tube, Vent (Interconnection) – Not Shown
	130-5707	1	Right Side	45	504-0308	2	Valve, Ball (1/2" BSP)
3	511-0161-20	1	Belt, Fan	46	130-5358	1	Hose, LTA Top Pipe (Engine)
4	130-5339	1	Cooler, Fuel	47	130-5357	1	Hose, LTA Top Pipe (Radiator)
5	130-5416	1	Hose, Fuel	48	A030S239	2	Pipe, Assy
6	130-5353	5	Hose 3"	49	A030S245	1	Frame, Base
7	130-5354	1	Hose 4"	50	A030S247	1	Panel, Guard (Rear)
8	130-5356	1	Hose, JW 5"	51	A030S250	1	Panel, (Extra Guard)
9	503-1872-05	18	Clamp, Hose	52	A030S258	1	Panel, Guard (Side)
10	503-1872-07	2	Clamp, Hose	53	A030S778	1	* Fancowl Assy
11	503-1872-10	4	Clamp, Hose	54	A030S262	1	* Pipe, Assy (LTA Bottom)
12	130-5355	1	Adapter – 1/4 BSPT x 1/4 BSPP M/M	55	A030S266	1	* Pipe, LTA (O.D. 76.2)
13	130-5414	1	Socket, Hex	56	A030S268	1	* Pipe, J/W (O.D. 101.6)
14	130-5415	1	Adapter – 11/16" ORFS – 1/4" BSP F/M	57	A030S269	1	* Pipe, LTA (O.D. 76.2)
15	505-2160	1	Adapter – 1/4" BSP x 3/8" NPT M/F	58	A030S270	1	Panel, Guard (Top)
16	309-0635-02	1	Valve, Check	59	A030S271	1	Panel, Guard (Front)
17	502-1318	1	Adapter – M14 x 1/4" NPT M/F	60	A030S273	1	Panel, Infill (RH)
18	800-6317	8	Screw, Hex Head (M20 x 50 CL 10.9)	61	A030S281	1	Panel, Guard (Bottom)
19	860-2035	8	Nut, Hex (M20 CL10 Nyloc)	62	A030S282	1	Panel, Guard (Side RH)
20	526-2304	16	Washer, Flat (M20 CL10)	63	SP42268	1	Hose, Radiator
21	821-6003-03	19	Bolt (M8 x 25 CL 8.8)	64	SP42278	1	Hose, Radiator
22	821-6002-04	39	Bolt (M6 x 20 CL 6.6)	65	SP42277	1	Hose, Radiator
23	860-2033	13	Nut, Hex (M6)	66	SP400980330P	1	Hose, Radiator
24			Bearing, Fan	* – Items not shown			
	130-5329	2	UCP312				
	130-6245	2	UCP313				
25	130-5331	1	Shaft, Fan				
26	130-5335	1	Fan, Impeller	KITS: NOT SHOWN			
27	130-5336	1	Pulley, Fan				
28	130-5337	1	Bushing, Taper Lock				
29	526-2304	8	Washer, Flat (M20)				
30	130-5420	25	Bolt (M8 x 25)	130-5351	1	Kit, Fill Pipe	
31	130-5419	19	Nut, Hex (M8)	130-5348	1	Kit, Conn Pipe (LTA Tank)	
32	130-5418	43	Bolt (M6 x 20)	130-5347	1	Kit, Conn Pipe (JW Bottom Tank)	
33	870-0506	28	Nut, Nyloc – (M6)	130-5345	1	Kit, Conn Pipe (JW Top Tank)	
34		28	Washer, Flat (M6)	130-5344	1	Kit, Conn Pipe (JW Baffle)	
35	860-2034	12	Nut, Nyloc (M16)	130-5341	1	Kit, Bearing Lube	
36	526-0038	24	Washer, Flat (M16)	Note: The 130-5329 bearing has been replaced by one of two bearing and shaft assemblies. For models DQKB/KC with cooling packages 179-2801, 179-2862, 179-2988 and 179-3455 use the 130-6245 kit. For models DQKB/KC with cooling packages 179-2852, 179-3173 and 179-3291 or sets built begin 2005 use the 130-6244 kit.			

**Radiator 40°C, 50 Hz & 60 Hz
Begin Spec D**



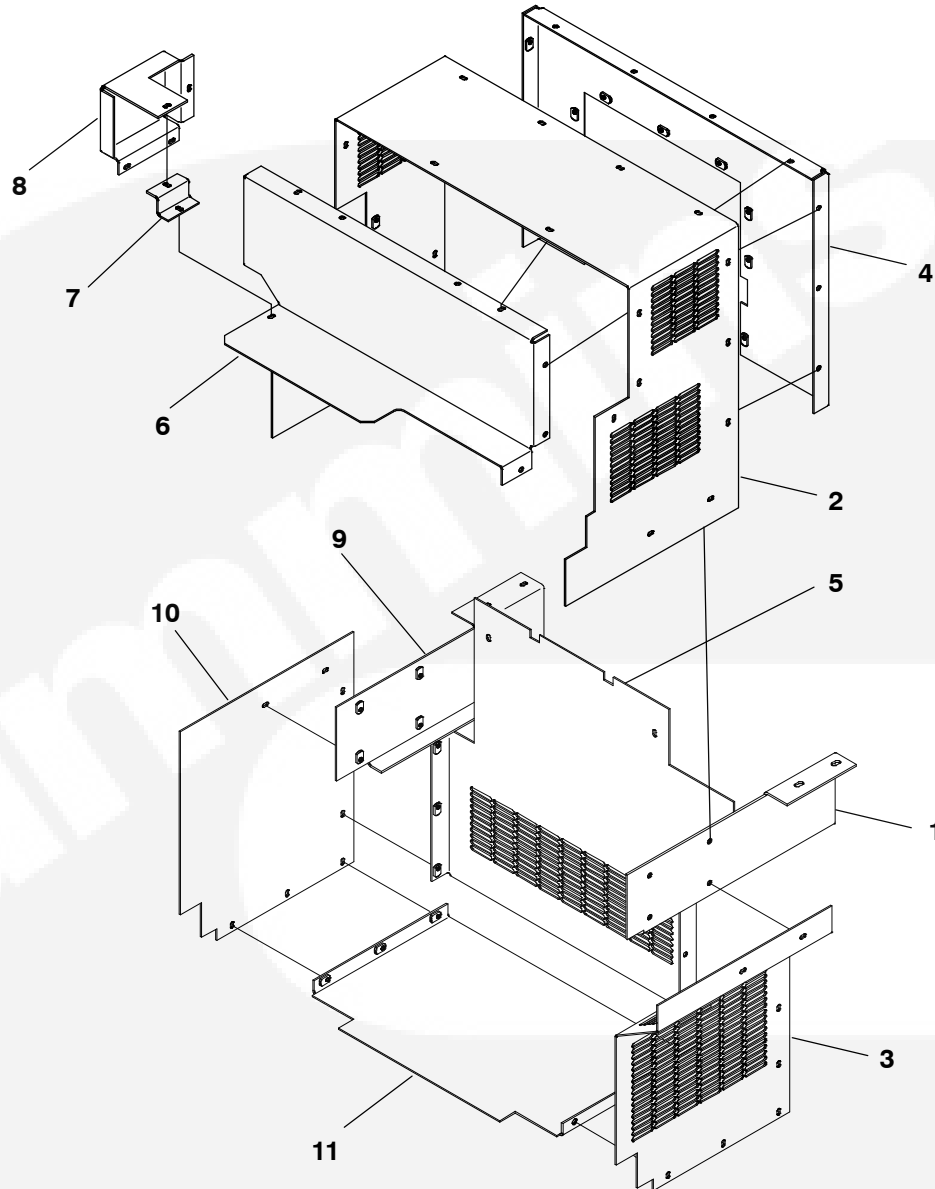
Radiator 40°C, 50 Hz & 60 Hz **Begin Spec D**

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)	35		28	Washer, Flat (M6)
	179-2852	1	Spec D	36	860-2034	12	Nut, Nyloc (M16)
	179-3291	1	50 Hz, Spec E	37	526-0038	24	Washer, Flat (M16)
	179-3173	1	60 Hz, Spec E	38	130-5555	1	Vent Line, Jacket Water
1		1	Slab, Jacket Water – (See Separate Page For Components)	39	130-5556	1	Vent Line, LTA
			Left Side	40	130-5332	1	Washer, Fan – Machined
	130-5964	1	50 Hz	41	130-5334	1	Screw, Set (M20 x 40)
	130-5962	1	60 Hz	42	130-5333	1	Washer, Spring (M20)
			Right Side	43	503-2454	1	Hose, “S” (4” to 5” ID)
	130-5965	1	50 Hz	44	A030S239	2	Pipe, Assy
	130-5963	1	60 Hz	45	A030S245	1	Frame, Base
2			Slab, LTA (See Separate Page For Components)	46	A030S247	1	Panel, Guard (Lower Rear)
			Spec D	47	A030S250	1	Panel, Guard (Extra Guard)
	130-5716	1	Spec E, 50 Hz	48	A030S254	1	Panel, Guard (Top)
	130-5967	1	Spec E, 60 Hz	49	A030S255	1	Panel, Guard (Front)
	130-5966	1		50	A030S257	1	Panel, Guard (Bottom)
3	511-0161-22	1	Belt, Fan	51	A030S258	1	Bracket, Guard (LH Side)
4	130-5339	1	Cooler, Fuel	52	A030S260	1	Bracket, Guard (RH Side)
5	130-5417	1	Adapter, Pipe (Spec D)	53	A030S775	1	* Fancowl, Assy (40 Spec D)
6	501-0814	1	Hose, Fuel	54	SP80912	1	* Fancowl, Assy (50 Spec E,F)
7	130-5359	9	Hose 3”	55	A030S777	1	* Fancowl, Assy (40 Spec E,F)
8	130-5354	1	Hose 4”	56	A030S262	1	* Pipe, Assy (LTA Bottom)
9	130-5356	2	Hose, JW 5”	57	A030S266	1	* Pipe, LTA (O.D. 76.2)
10	503-1872-05	18	Clamp, Hose	58	A030S268	1	* Pipe, J/W (O.D. 101.6)
11	503-1872-07	2	Clamp, Hose	59	A030S269	1	Pipe, LTA (O.D. 76.2)
12	503-1872-10	4	Clamp, Hose	60	A030S286		* StoneGuard
13	130-5355	3	Adapter – 1/4 BSPT x 1/4 BSPP M/M			1	40 Spec D
14	130-5414	1	Socket, Hex	61	A030S307	1	40 Spec E,F
15	130-5415	1	Adapter – 11/16” ORFS – 1/4” BSP F/M			1	* Panel, Infill
16	505-2160	1	Adapter – 1/4” BSP x 3/8” NPT M/F	62		1	40 Spec D
17	309-0635-02	1	Valve, Check			1	50 Spec D
18	502-1318	1	Adapter – M14 x 1/4” NPT M/F	63	A030S308	1	* Guard, Side (Bottom Spec D)
19	800-6317	8	Screw, Hex Head (M20 x 50 CL 10.9)	64	A030S309	1	* Pipe, Bottom (LTA Spec D)
20	860-2035	8	Nut, Hex (M20 CL10 Nyloc)	65	A030S310	1	* Panel, Guard (Top Spec D)
21	526-2304	16	Washer, Flat (M20 CL10)	66	A030S311	1	* Panel, Guard (Front Spec D)
22	821-6003-03	19	Bolt (M8 x 25 CL 8.8)	67	A030S314	1	* Bracket, Guard (Side Spec D)
23	821-6002-04	39	Bolt (M6 x 20 CL 6.6)	68	A030S315	1	* Panel, Guard (Rear Spec D)
24	860-2033	13	Nut, Hex (M6)	69	A030S316		* Fan Drive (K Pitch)
25			Bearing, Fan			1	50 Spec E,F
	130-5329	2	UCP312			1	40 Spec E,F
	130-6245	2	UCP313	70	A030S317	1	* Fan Drive (L Pitch)
26	130-6244	1	Shaft, Fan	71	A030S318	1	* Belt (L Pitch)
27	130-5554	1	Fan, Impeller	72	A030S319	1	* Fan Drive (L Pitch Spec E,F)
28	130-5336	1	Pulley, Fan	73	130-5721	1	Hose, Radiator
29	130-5557	1	Bushing, Taper Lock	74	130-5340	2	Isolator, Vibration (Fuel Cooler)
30	526-2304	8	Washer, Flat (M20)	75	130-6770	1	Tube, Radiator
31	130-5420	78	Bolt (M8 x 25)				
32	130-5419	46	Nut, Hex (M8)				
33	130-5418	32	Bolt (M6 x 20)				
34	870-0506	28	Nut, Nyloc – (M6)				

* – Items not shown

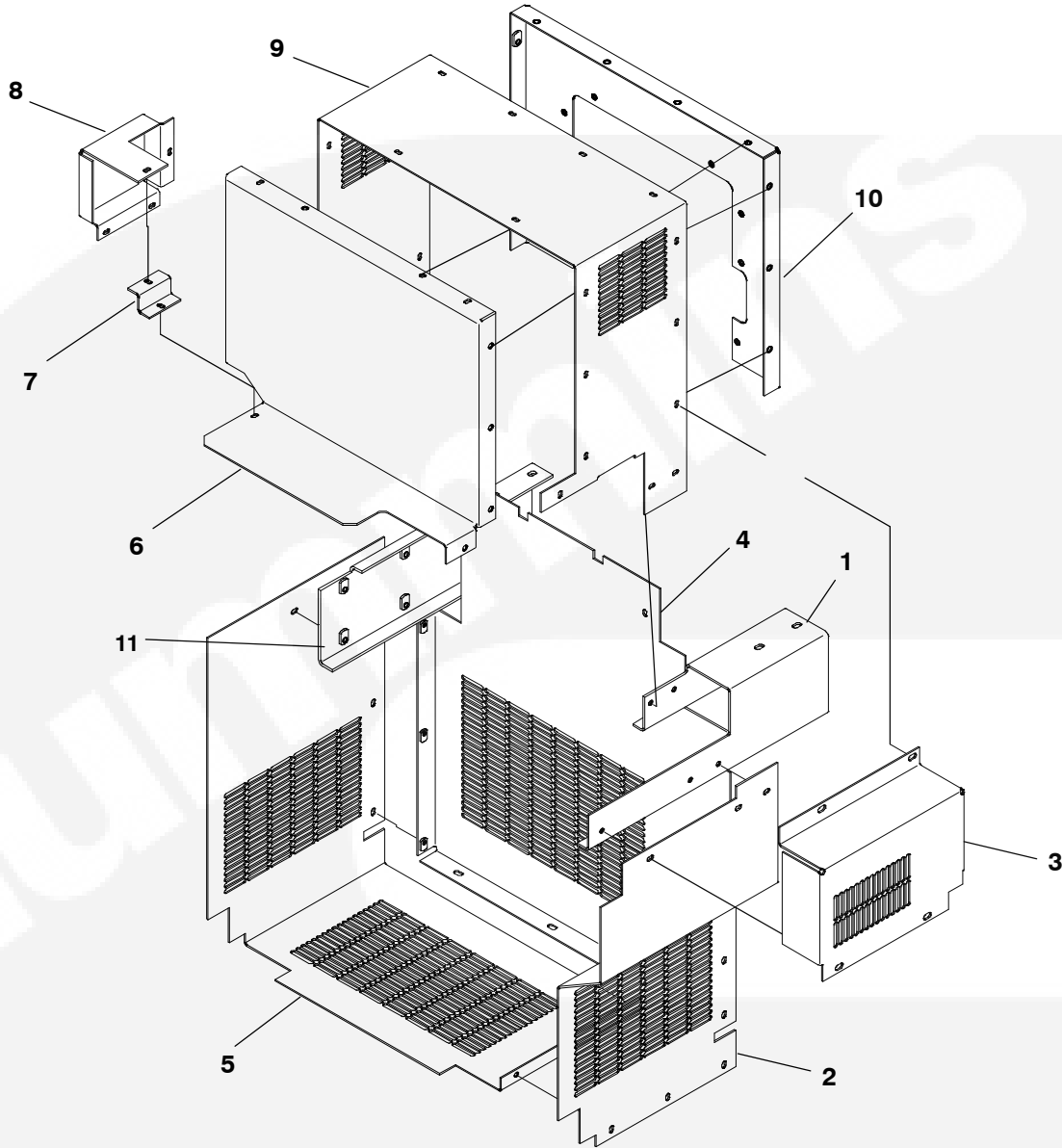
Note: The 130-5329 bearing has been replaced by one of two bearing and shaft assemblies. For models DQKB/KC with cooling packages 179-2842, 179-2862, 179-2988 and 179-3455 use the 130-6245 kit. For models DQKB/KC with cooling packages 179-2852, 179-3173 and 179-3291 or sets built begin 2005 use the 130-6244 kit.

**Belt Guard, 40°C
Begin Spec D**



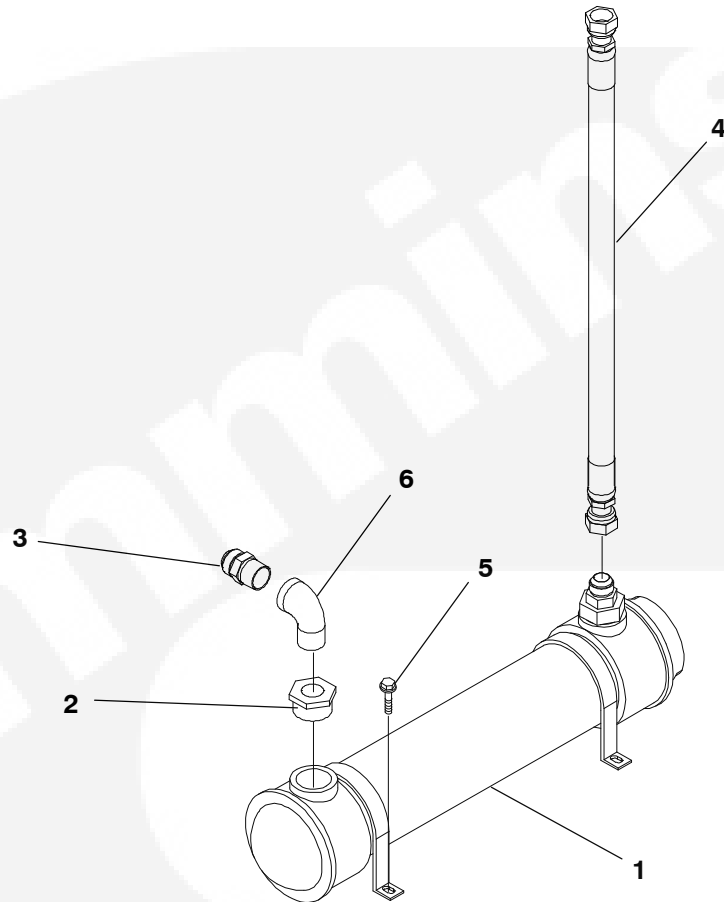
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5860-02	1	Bracket, Side - RH	7	130-5849	1	Angle, LH
2	130-5859-02	1	Guard, Top	8	130-5848	1	Panel, Extension - LH
3	130-5861-02	1	Panel, Side - RH	9	130-5845	1	Bracket, Fan Guard
4	130-5862-02	1	Panel, Upper Rear	10	130-5850	1	Panel, Side - LH
5	130-5863-02	1	Panel, Lower Rear	11	130-5844	1	Panel, Bottom
6	130-5864-02	1	Panel, Front				

Belt Guard
40°C – Spec B-C; 50°C – Begin Spec D



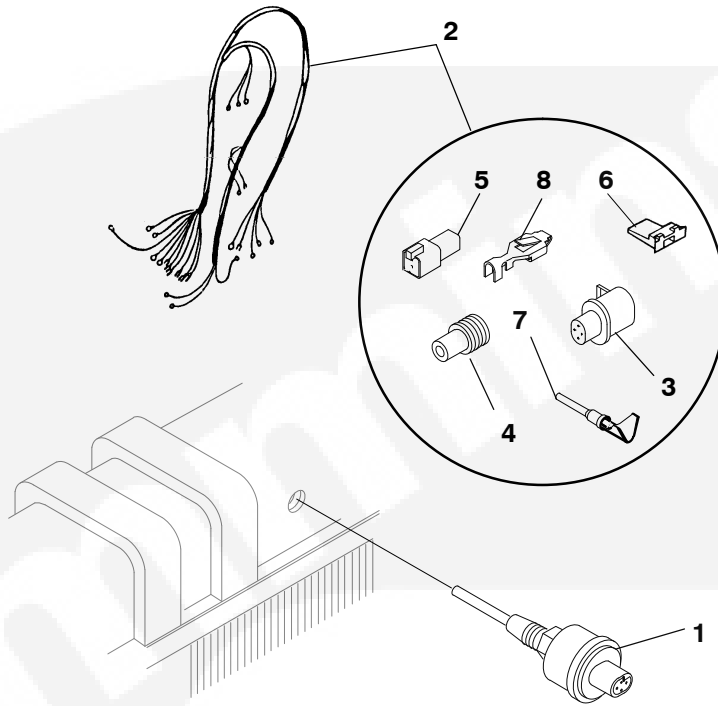
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5886-02	1	Bracket, RH Side	7	130-5849	1	Angle, LH
2	130-5889-02	1	Panel, Side – RH	8	130-5848	1	Panel, Extension – LH
3	130-5887-02	1	Panel, Extension – RH	9	130-5842	1	Panel, Top
4	130-5888-02	1	Guard, Belt – Lower Rear	10	130-5841	1	Panel, Upper Rear
5	130-5890-02	1	Guard, Belt – Bottom	11	130-5846	1	Guard, Belt
6	130-5843	1	Guard, Belt – Front				

Fuel Cooler Sets With Heat Exchanger Cooling



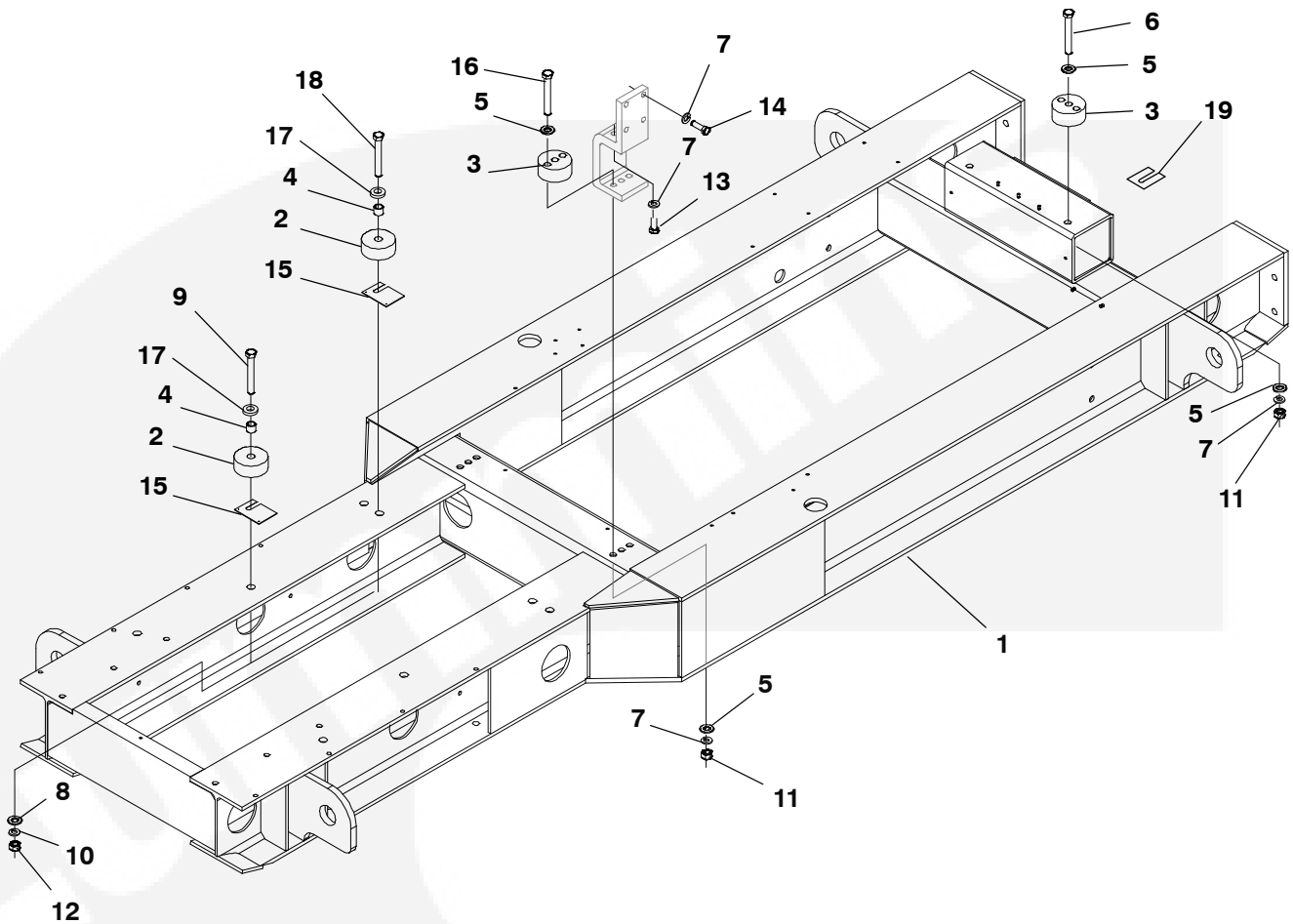
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5090	1	Exchanger, Heat - Fuel	4	501-0678-03	1	Line, Flexible (7/8" ID x 28")
2	505-0024	2	Bushing, Reducer - Pipe (1-1/2" to 1")	5	821-6003-03	4	Screw, Self-Locking - Hex Washer Head (M8 x 25mm)
3	502-0656	2	Adapter, Male - Brass (1-5/16" x 1")	6	505-0003	1	Elbow, Street - 90°

Low Coolant Level Sender Generator Sets Without Remote Radiator



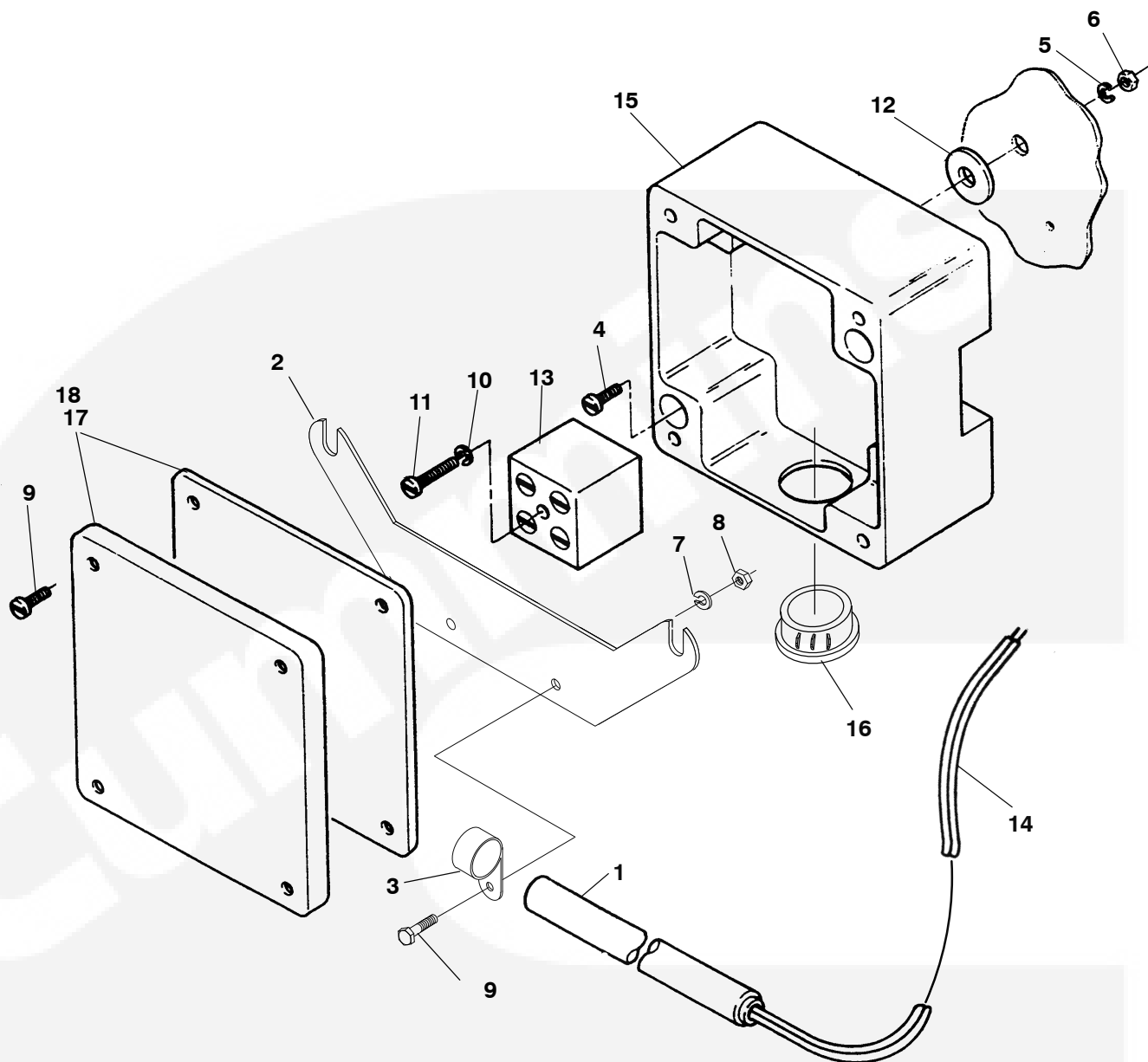
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0486	1	Sender, Low Coolant Level	6	323-1547	1	* Wedge, Receptacle (Used With Inline G)
2	338-3832	1	Harness, Wiring – Low Coolant Level Sender (4 Wire, 169”) (Includes Parts Marked *)	7	323-1491	4	* Pin, Contact (Used With Inline G)
3	323-1765	1	* Connector, Housing – 4 Place (Station 20)	8	323-1709	4	* Socket, Contact (Used With Station 20)
4	323-1708	4	* Seal, Cable (Used With Station 20)	* – Parts Included In 338-3832 Wiring Harness			
5	323-1549	1	* Connector, Receptacle – 4 Place (Inline G)				

Skid



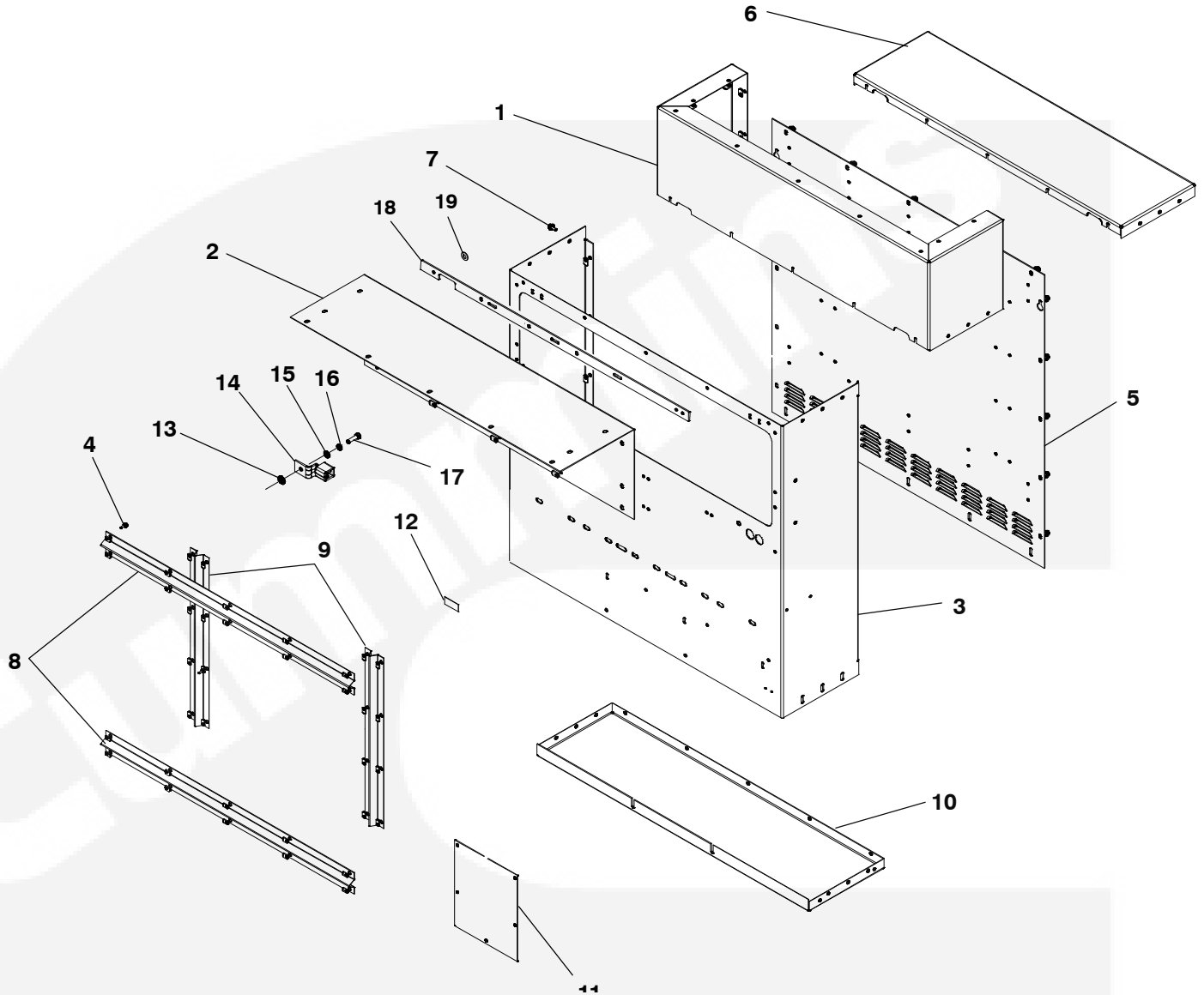
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4351-02	1	Skid	10	850-2024	4	Washer, Lock - Spring (M24)
2	232-4061	4	Spacer, Generator Mounting (1-1/16" ID x 5" OD x 2-1/8" Thk)	11	860-2023-01	6	Nut, Hex (M20)
3	403-4332	4	Spacer, Engine Mounting (1" ID x 5" OD x 2-9/32" Thk)	12	860-2024-01	4	Nut, Hex (M24)
4			Bushing	13	800-2208	4	Screw, Cap - Hex Head (M20 x 70mm)
	403-4303-01	4	Frame 7 Generators (1-1/16" ID x 1-5/16" OD x 1-3/16" Long)	14	800-2206	8	Screw, Cap - Hex Head (M20 x 60mm)
	403-4303-02	4	Frame 8 Generators (1-1/16" ID x 1-19/32" OD x 1-3/8" Long)	15			Shim, Generator Mounting (Quantity Used As Required)
5	526-0399-76	12	Washer, Flat (M20)		232-3710-01	1	.0239" Thk
6	800-3047-02	2	Screw, Cap - Hex Head (M20 x 160mm)		232-3710-02	1	.0747" Thk
7	850-2020	18	Washer, Lock - Spring (M20)		232-3710-03	1	.1345" Thk
8	526-0399-78	4	Washer, Flat (M24)		232-3710-07	1	.0149" Thk
9	800-3048-01	2	Screw, Cap - Hex Head (M24 x 3 x 170mm)	16	800-3047-03	4	Screw, Cap - Hex Head (M20 x 2.5 x 130mm)
				17	526-0460-02	4	Washer, Generator Mounting
				18	800-3048-02	2	Screw, Cap - Hex Head (M20 x 3 x 160mm)
				19	232-4139-02 A/R		Shim, Generator

Generator Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0438-05	1	Cartridge, Heater (300 Watt) 120 Volt	10	850-2003	1	Washer, Lock – Spring (M3)
	333-0438-06	1	240 Volt	11	822-3047	1	Screw, Machine – Pan Head (M3 x 20mm)
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	6	Screw, Machine – Slotted Pan Head (M4 x 16mm)	14	898-1254-25	1	Sleeving – Heater Leads (59")
5	850-2004	2	Washer, Lock – Spring (M4)	15	330-0142	1	Box, Terminal
6	860-2005	2	Nut, Hex (M4)	16	517-0021	1	Plug, Dot Button
7	850-2005	2	Washer, Lock – Spring (M5)	17	330-0141-01	1	Cover, Box
8	860-2006	2	Nut, Hex (M5)	18	330-0141-01	1	Gasket, Cover
9	800-2008	2	Screw, Cap – Hex Head (M5 x 16mm)				

**Entrance Box
100% UL
Rated**



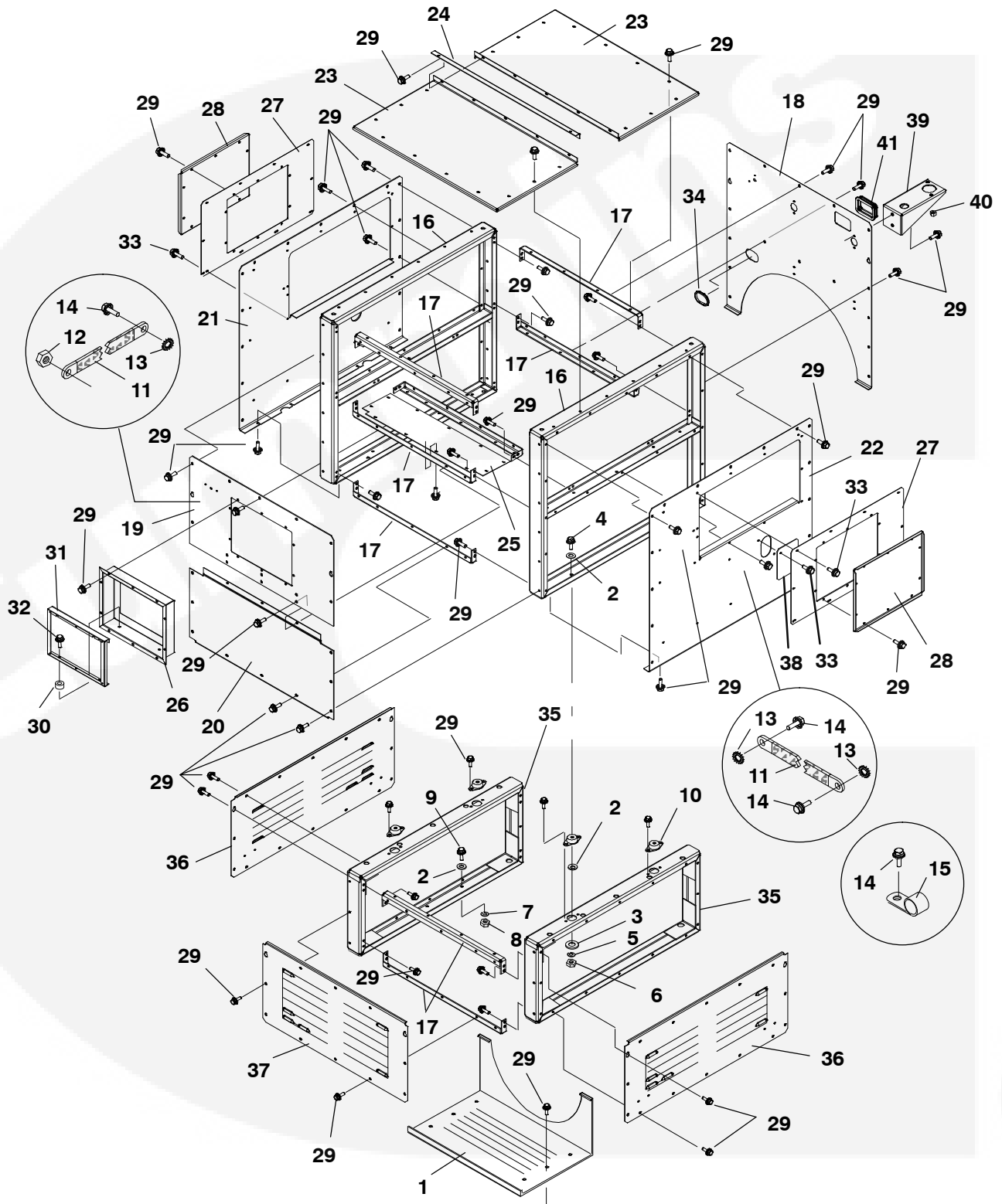
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5162-02	1	Cover, Circuit Breaker – Top (Top and Bottom Entrance)	9	319-3286	2	Brace, Access Door
2	319-5163-02	1	Cover, Circuit Breaker – Top (Top and Bottom Entrance)	10	319-5088-02	1	Cover, Circuit Breaker
3	319-5062-02	1	Box, Circuit Breaker	11	319-7709-02	1	Cover, Access
4			Screw, Hex Head (M6 x 1 x 16)	12	098-6635	1	Label, Ground
	821-6002-03	42	Bottom Entrance	13	856-0010	1	Washer, Lock – W/EIT (3/8)
	821-6002-03	55	Top and Bottom Entrance	14	332-2001	1	Lug, Solderless
5	319-5176-06	1	Cover, Circuit Breaker	15	526-2120	1	Washer, Flat (M10)
6	319-5087-02	1	Cover, Circuit Breaker (Bottom Entrance)	16	850-2010	1	Washer, Lock – Split (M10)
7	821-6003-01	34	Screw, Hex Head (M8 x 1.25 x 16)	17	800-2088	1	Screw, Cap – Hex Head (M10 x 1.5 x 35)
8	319-3288	2	Brace, Access Door	18	319-5155-02	4	Spacer, Circuit Breaker Box
				19	526-0399-58	9	Washer, Flat (M6) (Used With Spacer)



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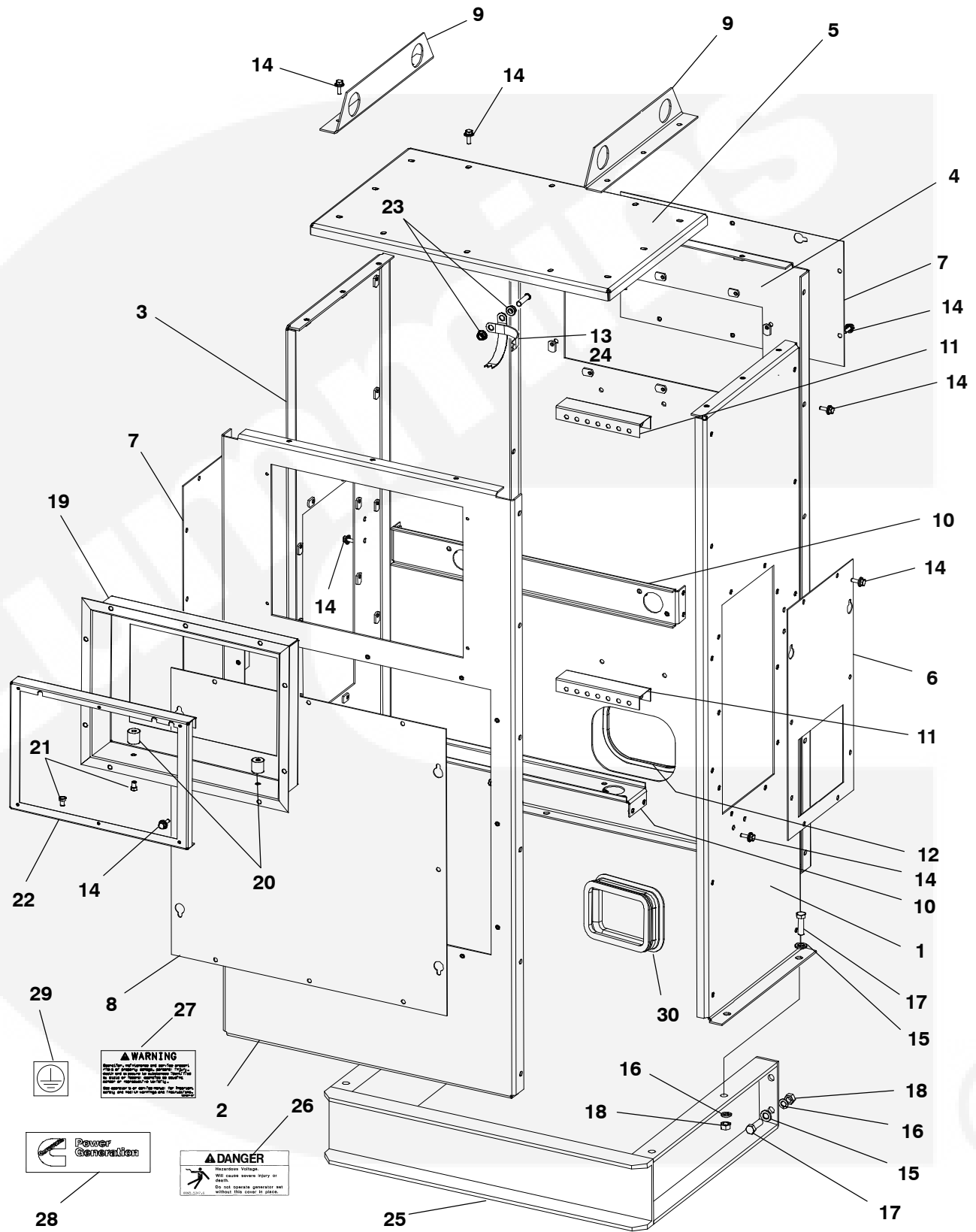
Control Housing Frame 7 Generators



Control Housing Frame 7 Generators

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4126-02	1	Panel, Bottom	22	319-4000-02	1	Panel, Side – Upper – Left Side
2	526-0399-64	24	Washer, Flat (M12)	23	319-4001-02	2	Panel, Top
3	526-0172	4	Washer, Flat (1/2")	24	319-4002-02	1	Rail, Drip
4	800-2121	4	Screw, Cap – Hex Head (M12 x 75mm)	25	319-4007-02	1	Panel, Inner
5	850-2012	4	Washer, Lock – Spring (M12)	26	319-3672-02	1	Panel, Control Mounting
6	860-2010	4	Nut, Hex (M12)	27	319-4003-02	2	Cover, Housing – Breaker
7	850-0114-56	8	Washer, Lock – Spring (M12)	28	319-4004-02	2	Cover, Housing – Control
8	862-0026-57	8	Nut, Hex (M12)	29	821-6003-02	242	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)
9	800-3017-58	8	Screw, Cap – Hex Head (M12 x 50mm)	30	402-0527	4	Isolator, Vibration
10	403-4091	4	Isolator, Vibration	31	319-3786-02	1	Bracket, Control Mounting
11	337-3466-01	2	Strap, Ground	32	800-0024	8	Screw, Cap – Hex Head (5/16-18 x 1/2")
12	870-2203	1	Nut, Locking – Hex Flange Head (M10)	33	821-6002-04	24	Screw, Self-Locking – Hex Washer Head (M6 x 20mm)
13	856-0010	4	Washer, Lock – EIT (3/8")	34	508-1090	1	Grommet
14	821-6004-01	7	Screw, Self-Locking – Hex Washer Head (M10 x 20mm)	35	319-3994-02	2	Frame, Side – Lower
15	327-0923	3	Clamp, "J"	36	319-4006-02	2	Panel, Side – Lower
16	319-3995-02	2	Frame, Side – Upper	37	319-4005-02	1	Panel, Rear – Lower
17	319-3996-02	8	Separator, Frame	38	319-4455-02	2	Cover – Ground
18	319-3997-02	1	Panel, Front	39	319-3583-02	2	Bracket, Isolator
19	319-3998-02	1	Panel, Rear – Upper	40	870-2055	4	Nut, Lock (M8)
20	319-4138-02	1	Panel, Rear – Center	41	332-3629	1	Bellows, Electronic Box
21	319-3999-02	1	Panel, Side – Upper – Right Side				

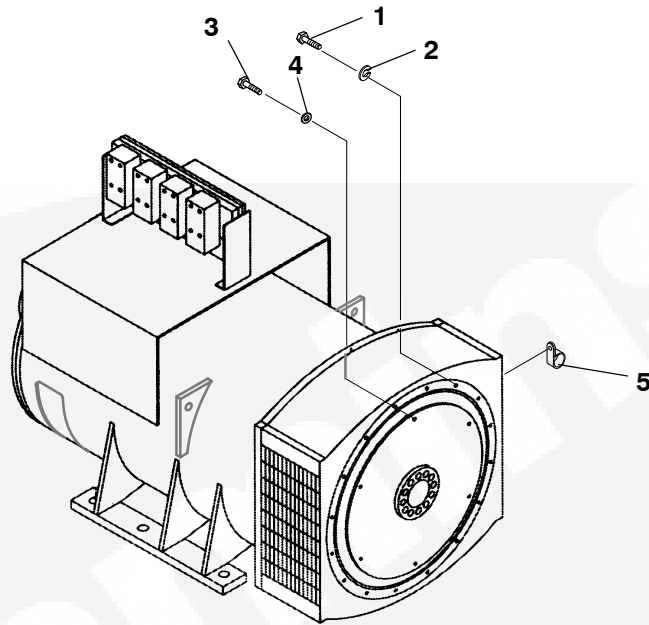
Control Housing Frame 8 Generators



Control Housing Frame 8 Generators

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3910-02	1	Panel, Control – Left Side	18	862-0026-57	4	* Nut, Hex (M12)
2	319-3912-02	1	Panel, Control – Rear	19	319-3672-02	1	Panel, Control – Control Mounting
3	319-3911-02	1	Panel Control – Right Side				
4	319-3913-02	1	Panel, Control – Front	20	402-0527	4	Isolator, Vibration
5	319-3916-02	1	Roof	21	800-0024	8	Screw, Hex Head
6	319-3914-02	1	Cover, Side – Left Side	22	319-3786-02	1	Bracket, Control Mounting
7	319-3915-02	2	Cover – Right Side and Front	23	870-0550-09	2	Nut, Hex – Flange (3/8-16)
8	319-3920-02	1	Cover, Rear	24	337-3466-01	1	Strap, Bond
9	319-3919-02	2	Support, Housing	25	403-4357-01	1	Frame, Control Mounting
10	319-3917-02	2	Shelf	26	098-5347	9	Label, Danger
11	319-3921-02	1	Guide, Wire	27	098-6074-02	1	Label, Warning
12	508-1088-S0	1	Edging (37-3/4")	28	098-7902-03	1	Label, Logo
13	856-0010	1	Nut, Hex – Flange – Locking (M10 x 1.5)	29	098-6537	1	Label, Ground
				30	332-3629	1	Bellows, Elex Box
14	821-6003-02	98	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)				
15	526-0399-64	8	* Washer, Flat (M12)				* – Not Used On All Models
16	850-0114-56	8	* Washer, Lock – Spring (M12)				
17	800-3017-56	8	* Screw, Cap – Hex Head (M12 x 40mm)				

Generator Mounting



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	249-0798	1	Kit Varistor	3	805-2022	6	Bolt, Place (M16 x 35mm)
1	800-2543-08	16	Screw, Cap - Hex Head (M12 x 55mm) Grade 10.9	4	526-0416	6	Washer, Flat (5/8")
2	850-2012	16	Washer, Lock - Spring (M12)	5	332-3196	1	Clamp, "J"

Generator

Frame 7 (with two 1-1/4" thick x 32-11/16" long mounting feet) and Frame 8 (with four 1-9/16" thick x 6-1/2" long mounting feet) 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 or 249-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
200-3128-06	HC734G
200-3054-06	HC734G
200-3128-06	HC734H
200-3054-08	HC734H
200-3055-05	HC734G
200-3055-06	HC734G
200-3055-11	HC734G
200-3128-06	HC1734G
249-5092-06	HC1734G
249-5092-07	HC1734H
249-5092-08	HC1734H
200-3055-05	HC1734G
249-5093-06	HC1734G
249-5093-07	HC1734H
249-5093-08	HC1734H
249-5095-06	MV734WG
249-5095-08	MV734WH
249-5104-01	LVSI814C1
249-5104-02	LVSI814D1
249-5104-07	LVSI814C1
249-5104-08	LVSI814D1
249-5104-13	MVSI814C1
249-5104-14	MVSI814D1
249-5104-19	HVSI814C1
249-5104-20	HVSI814D1
249-5104-21	HVSI814E1
Continued...	

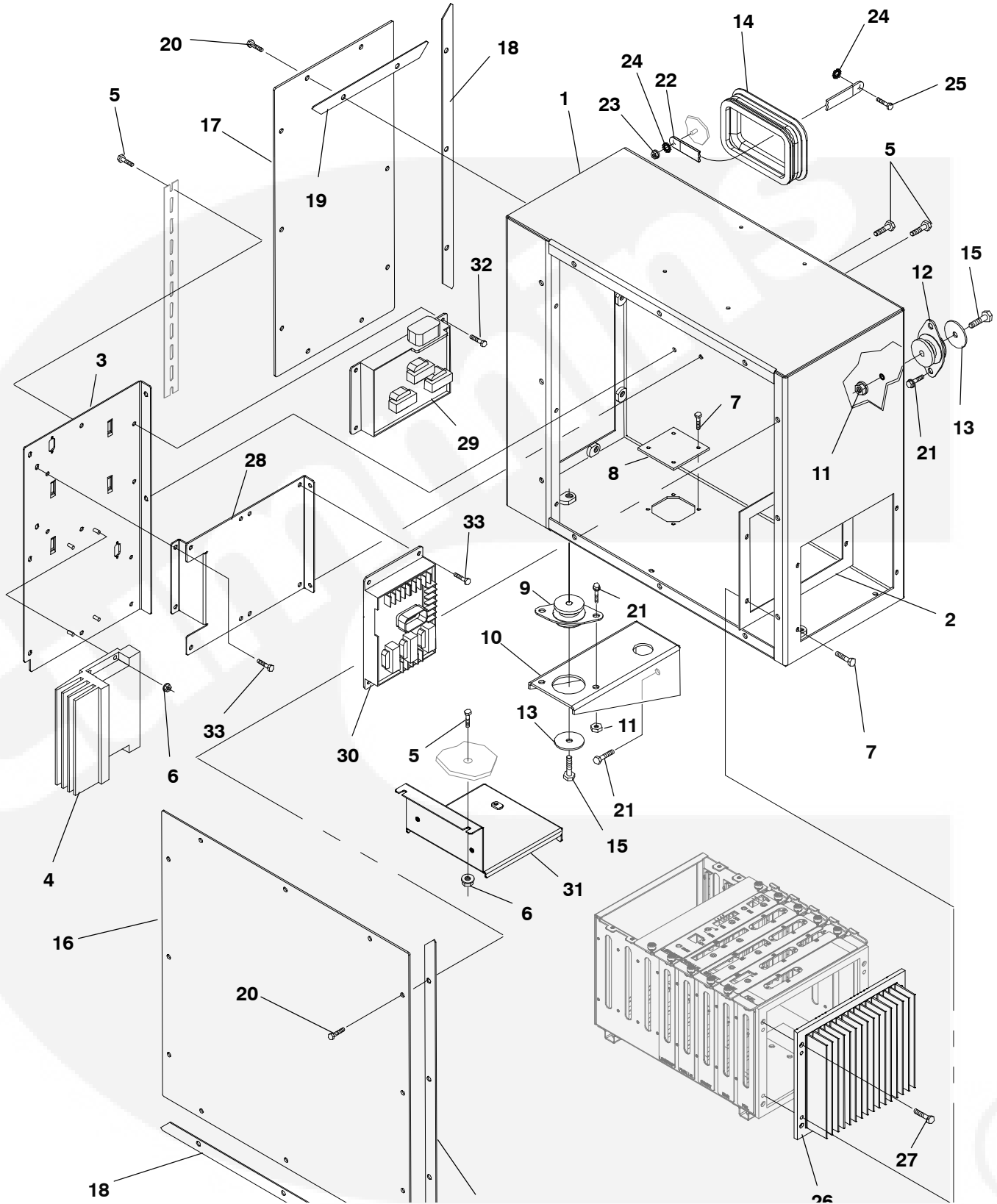
Generator

Cummins Power Generation Identification Number	Generator Model Number
Continued...	
249-5104-25	LVSI814C1
249-5104-26	LVSI814D1
249-5104-28	LVSI814C1
249-5104-29	LVSI814D1
249-5104-31	HVSI814C1
249-5104-32	HVSI814D1
249-5104-33	HVSI814E1
249-5104-34	HVSI814C1
249-5104-35	HVSI814D1
249-5104-36	HVSI814E1
249-5104-40	LVSI814C1
249-5104-41	LVSI814D1
249-5104-43	LVSI814C1
249-5104-44	LVSI814D1
249-5104-46	HVSI814C1
249-5104-47	HVSI814D1
249-5104-48	HVSI814E1
249-5104-54	HVSI814E1
249-5107-01	LVSI814C1
249-5107-02	LVSI814D1
249-5107-07	LVSI814C1
249-5107-08	LVSI814D1
249-5107-13	MVSI814C1
249-5107-14	MVSI814D1
249-5107-19	HVSI814C1
249-5107-20	HVSI814D1
249-5107-21	HVSI814E1
249-5107-25	LVSI814C1
249-5107-26	LVSI814D1
249-5107-28	LVSI814C1
249-5107-29	LVSI814D1
Continued...	

Generator

Cummins Power Generation Identification Number	Generator Model Number
Continued...	
249-5107-31	HVSI814C1
249-5107-32	HVSI814D1
249-5107-33	HVSI814E1
249-5107-34	HVSI814C1

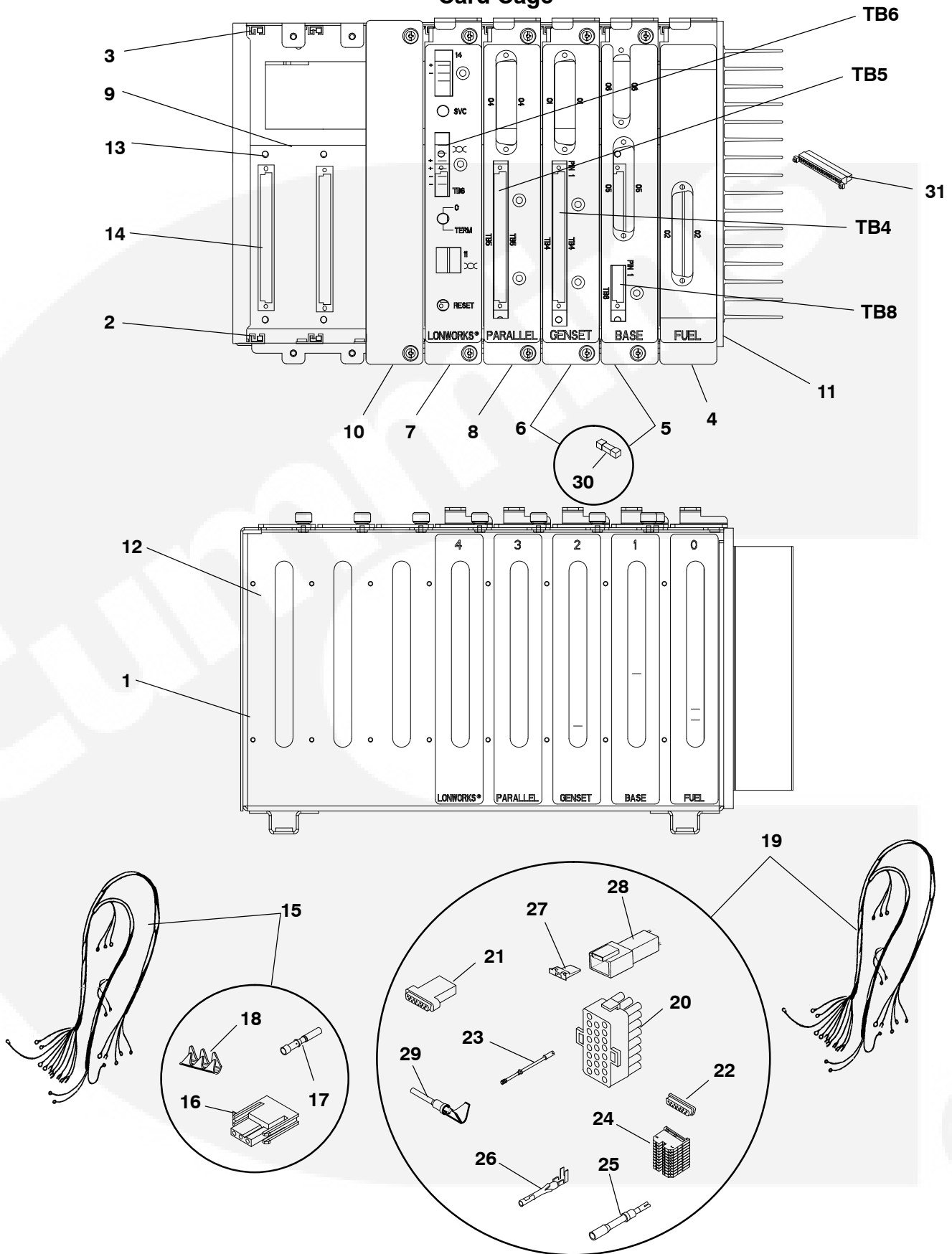
PowerCommand Control



PowerCommand Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3586-02	1	Box, Control	23	870-2203	1	Nut, Locking (M10)
2	363-0189	1	Gasket, Heatsink	24	856-0010	2	Washer – W/ET (M10)
3	319-3650-02	1	Bracket, Terminal Block	25	821-6004-01	1	Screw, Hex Head (M10 x 1.5 x 20)
4	300-4306	1	Module, Voltage Regulator (AVR)	26	363-0183	1	Heatsink, Genset
5	821-6001-02	16	Screw, Hex Head (M5 x 12)	27	823-0002-04	8	Screw, Hex Head – Thread Forming (M4 x 12)
6	870-2208	6	Nut, Flange (M5)	28	319-3649-02	1	Bracket, PT Bus Mounting
7	815-0828-04	8	Screw, Hex Head (M4 x 16)	29			Board, Printed Circuit – PT/CT
8	319-3968-02	1	Cover, Cutout		300-4308-01	1	120 Volt
9	402-0748	2	Isolator, Vibration		300-4308-02	1	240 Volt
10	319-3583-02	2	Bracket, Isolator		300-4308-03	1	346 Volt
11	870-2055	4	Nut, Lock (M8)	30			Board, Printed Circuit – Power Transformer Bus
12	402-0751	2	Isolator, Vibration		300-4309-01	1	120 Volt
13	402-0749	4	Washer, Vibration Isolator		300-4309-02	1	240 Volt
14	332-3629	1	Bellows		300-4309-03	1	346 Volt
15	800-2063	4	Bolt, Flange Head (M8 x 50)		300-4309-04	1	69 Volt
16	319-3585-02	1	Cover, Box – Main	31	319-4141-02	1	Bracket, PT Bus Mounting
17	319-3584-02	1	Cover, Box – Side	32	821-6001-03	4	Screw, Hex Head (M5 x 16)
18	363-0188	6	Gasket, Cover	33	821-6001-03	8	Screw, Machine – Round Head (M5 x 12)
19	363-0187	2	Gasket, Cover				
20	821-6002-02	22	Screw, Hex Head (M6 x 12)				
21	821-6003-02	12	Screw, Hex Head (M8 x 16)				
22	337-3466-02	1	Strap, Bond				

Card Cage

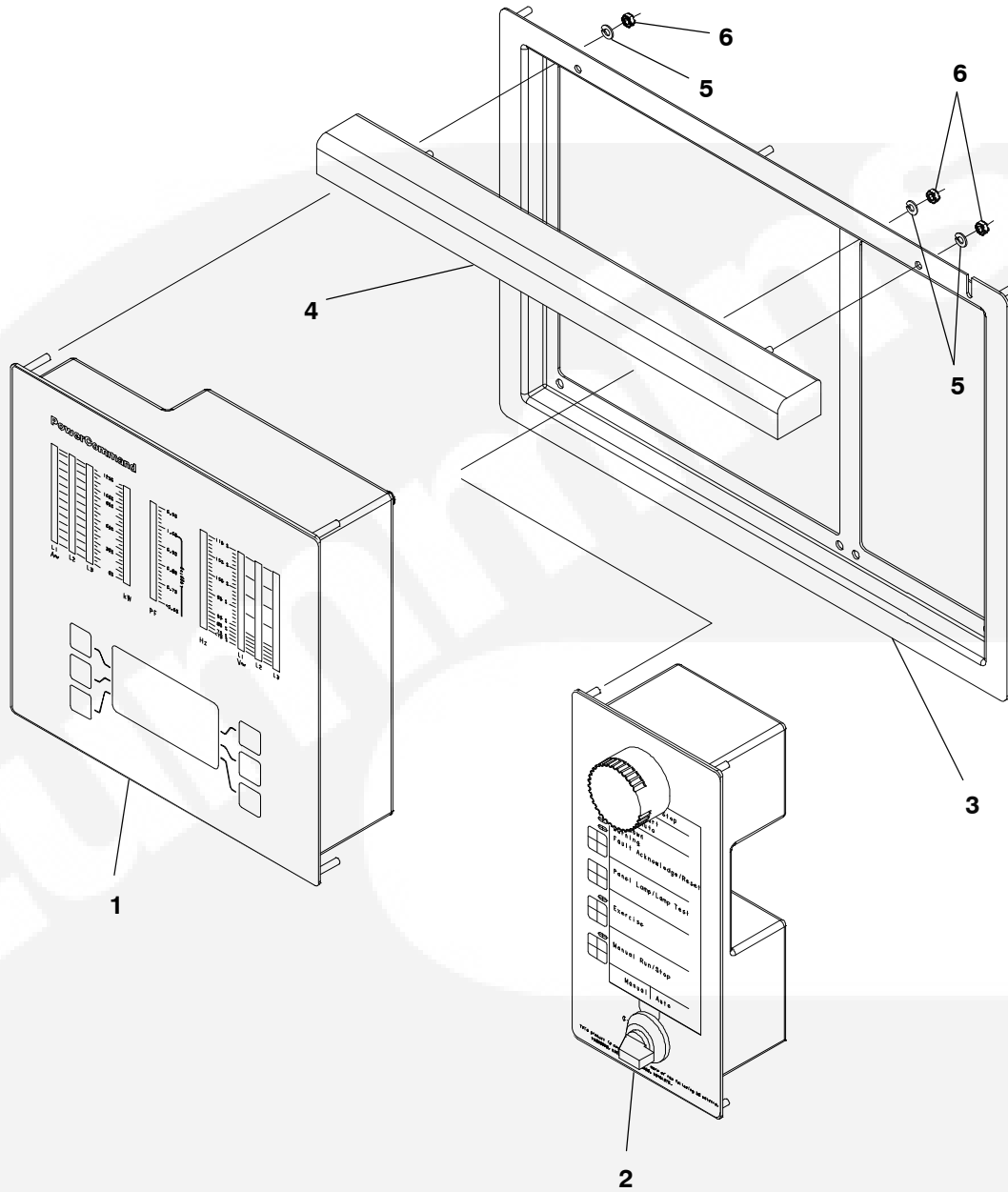


Card Cage

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3606-02	1	Cage, Card – Genset	17	323-1850	2	* Socket, Contact (Used With Station 14)
2	406-0916	8	Guide, Metal Card – Left	18	332-3491-01	2	◇* Pin, Contact (Used With B+ and GND)
3	406-0917	8	Guide, Metal Card – Right	19	338-3827	1	Harness, Wiring – Parallel (Includes Parts Marked #)
4	300-4970	1	Board, Printed Circuit – Fuel	20	323-1605-03	1	# Plug (23 Pin) (Station 8)
5	300-4969	1	Board, Printed Circuit – Base (Includes Fuse)	21	323-1837	1	# Connector, Contact (50 Pin) (Station 4)
6	300-5187	1	Board, Printed Circuit – Generator Interface (Includes Fuses)	22	323-1843	1	# Grommet (50 Place)
7			Board, Printed Circuit – Lonworks	23	323-1844	2	# Jackscrew
	300-5241	1	Spec A–D	24	332-3125-02	1	# Block, Terminal (10 Pole) (TB3)
	541-0809	1	Begin Spec E	25	323-1835-01	34	# Socket, Contact (Used With Station 4)
8	300-5270	1	Board, Printed Circuit – Parallel	26	323-1614-01	12	# Pin, Contact (Used With Station 8)
9	300-4968	1	Board, Printed Circuit – Backplane	27	323-1501	1	◇# Wedge, Plug (2 Place) (Used With Inline J)
10	319-3605-02	5	Cover, Card Cage – Blank With Base Board	28	323-1505	1	◇# Connector, Plug (2 Place) (Used With Inline J)
	319-3605-02	4	With Base and Lonworks Boards	29	323-1491	2	◇# Socket, Contact
	319-3605-02	3	With Base, Lonworks and Parallel Boards	30	340-0475-14	7	Fuse (5 Amp) (Five Used On Generator Interface Board and Two Used On Base Board)
11	815-0947	6	Screw, Hex Head (Used to Mount Fuel Board W/Heatsink to Card Cage) (M3 x 10)	31			Connector, Plug
12	815-0949	32	Screw, Hex Head (4–40 x 1/4)		323-1846-01 A/R		5 Positions – Coding Key Positions 2, 4 – TB8
13	815-0948	16	Screw, Hex Head (M4 x 6)		323-1846-02 A/R		6 Positions – Coding Key Positions 1, 6 – TB6
14			Cover, Header – 96 Pin		323-1846-03 A/R		18 Positions – Coding Key Positions 3, 16 – TB4
	323-1848	5	With Base Board		323-1846-04 A/R		18 Positions – Coding Key Positions 1, 18 – TB5
	323-1848	4	With Base and Lonworks Boards				
	323-1848	3	With Base, Lonworks and Parallel Boards				
15			Harness, Wiring – Lonworks				
	338-3828	1	Spec A–D (Includes Parts Marked *)				
	338-4258	1	Begin Spec E (Includes Parts Marked ◇)				
16	323-1849	1	* Connector, Contact (3 Pin) (Station 14)				

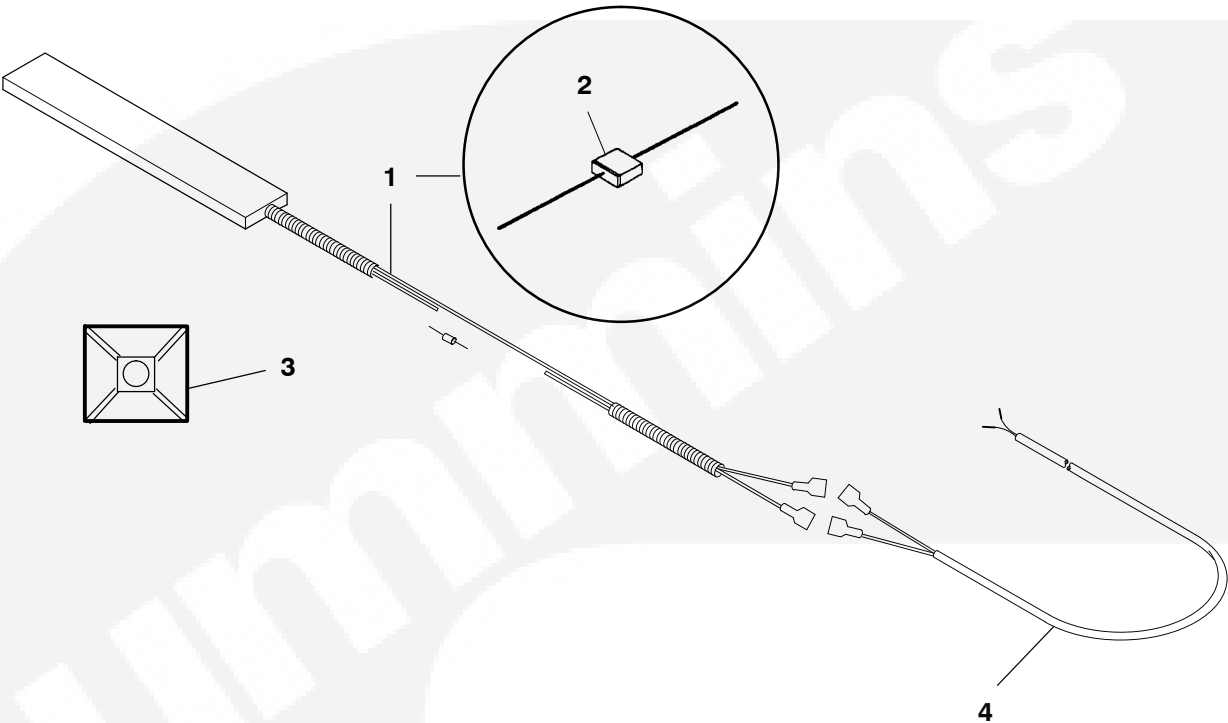
* – Parts Included in 338-3828 Wiring Harness
– Parts Included in 338-3827 Wiring Harness
◇ – Parts Included in 338-4258 Wiring Harness

PowerCommand Control Panel



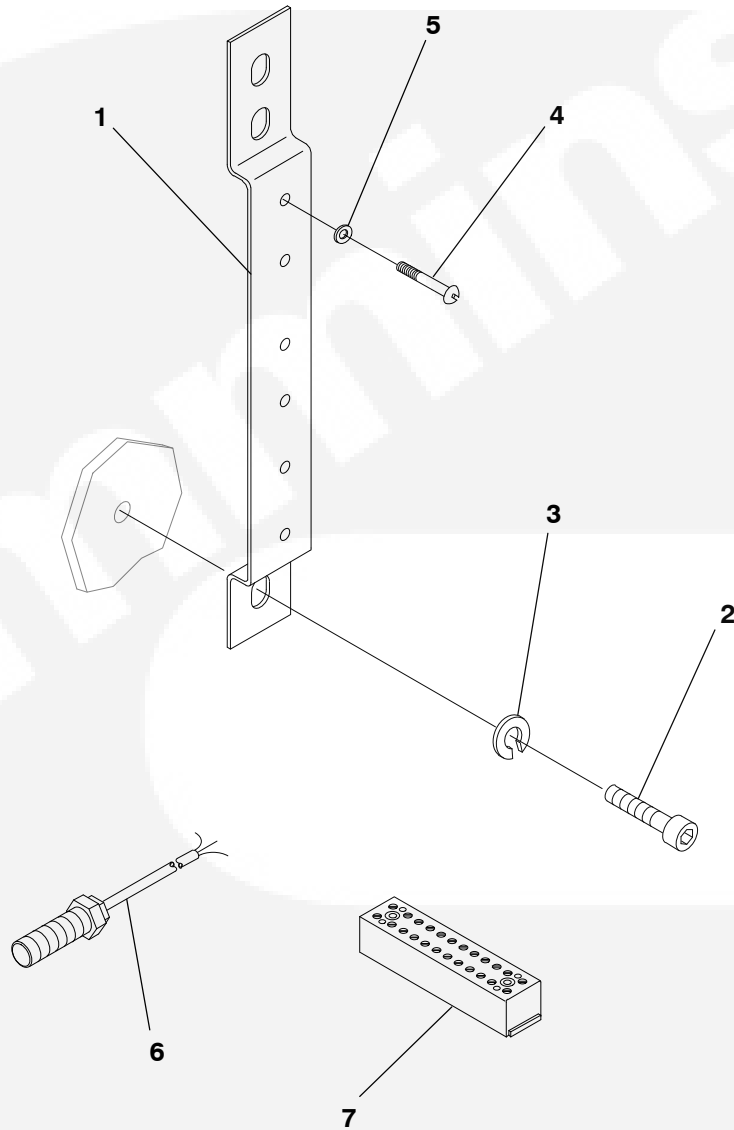
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-5312-S0	1	Display Assembly	3	300-5280-02	1	Frame, Control Panel
2	300-5311-S0	1	Panel Assembly	4	300-5291	1	Rail, Operator Panel Light
	300-5311-S1	1	Keyless Selector Switch	5	850-2004	16	Washer, Lock (M4)
			Keyed Selector Switch	6	860-2005	16	Nut, Hex (M4 x .7)

Control Heater



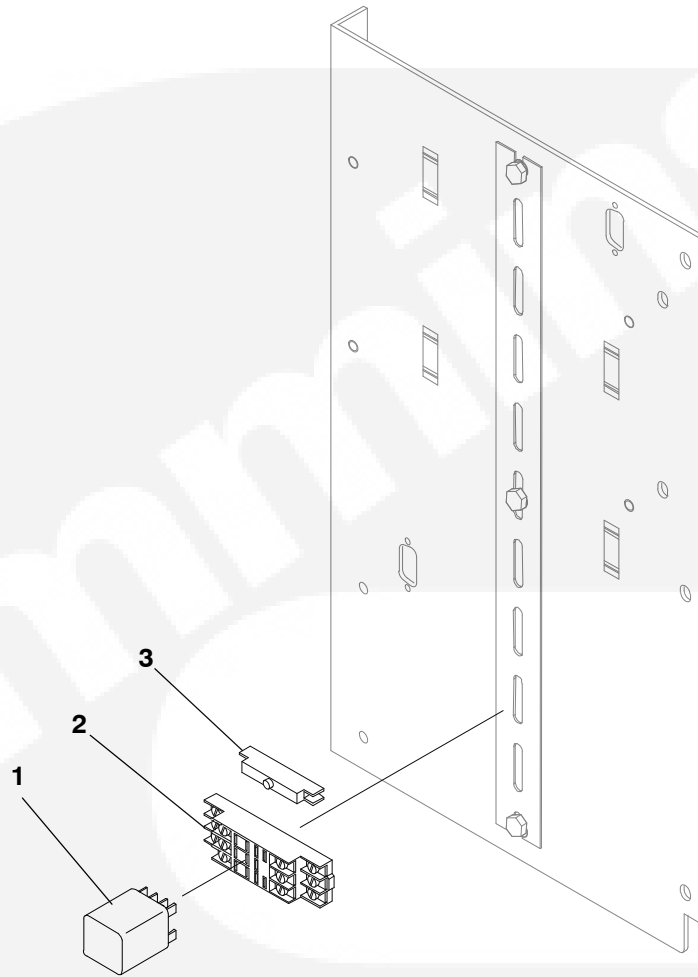
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater Assembly, Control – 100 Watt (Includes Rectifier)	2	357-0114	1	Rectifier (3 Amp)
	300-4515-01	1	120 Volt	3	332-2420	2	Mount, Cable
	300-4515-02	1	240 Volt	4	338-3829	1	Harness, Wiring – Control Heater (120 Volt)

Resistive Temperature Detectors



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1293	1	Bracket	5	526-0002	4	Washer, Flat (#6)
2	800-2080	2	Screw, Cap - Hex Head (M10 x 12mm)	6	193-0458-02	1	Detector, Temperature
3	850-2010	2	Washer, Lock - Spring (M10)	7	332-3134	1	Block, Terminal
4	812-0070	4	Screw, Machine - Round Head (#6-32 x 1-1/4")				

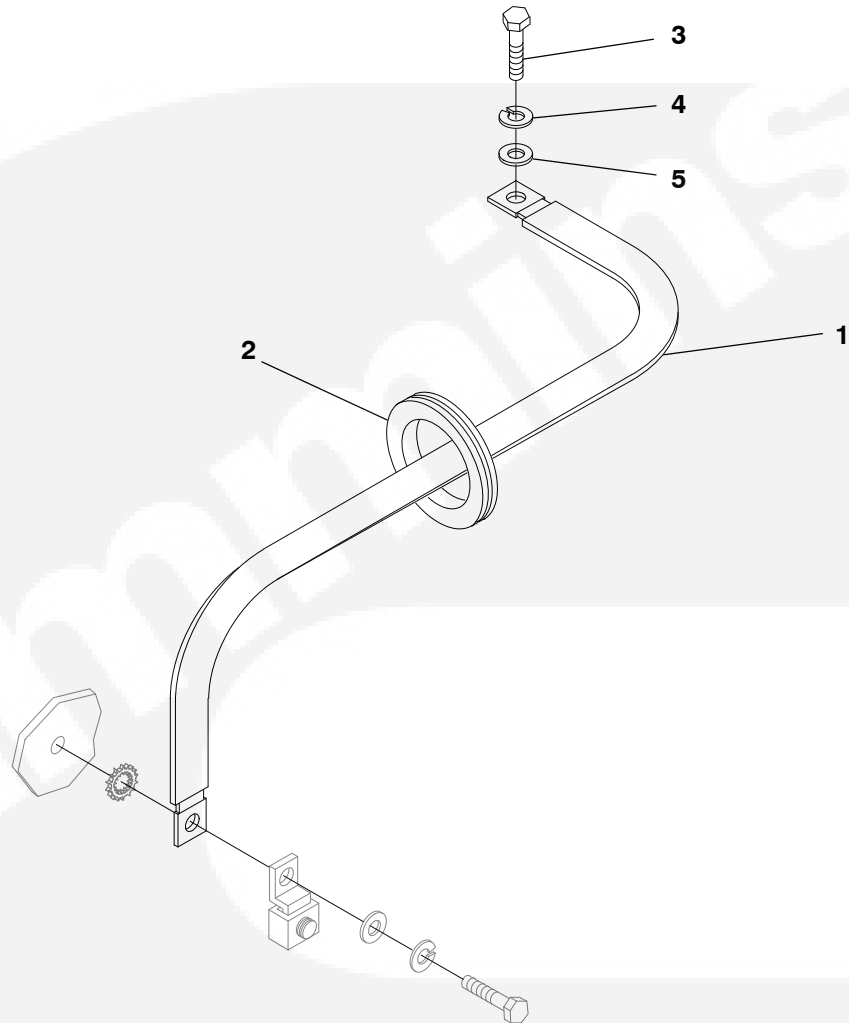
Relay



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Relay
	307-1058	1	Alarm Relay (K14)
			12 Volt
	307-1056	1	24 Volt
			Run Relay (K11,12,13)
	307-1058	3	12 Volt
	307-1056	3	24 Volt

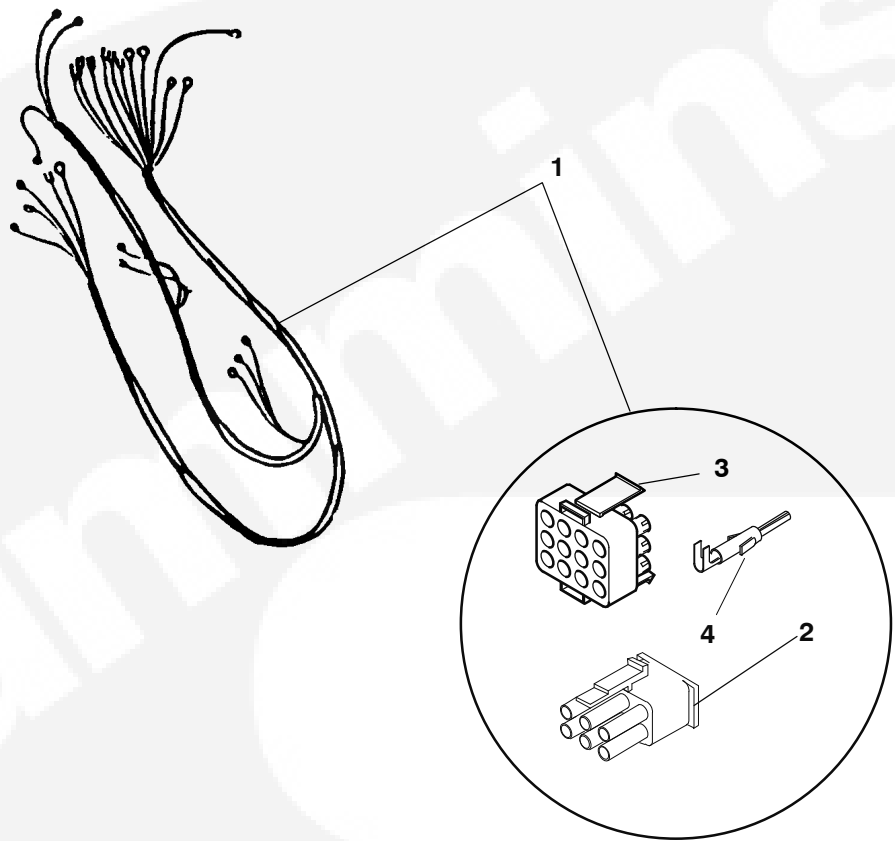
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2			Socket, Relay
	323-1410-01	1	Alarm Relay
	323-1410-01	3	Run Relay
3	323-1411-01	2	Clip, Socket Mounting

Ground Strap Circuit Breaker Box



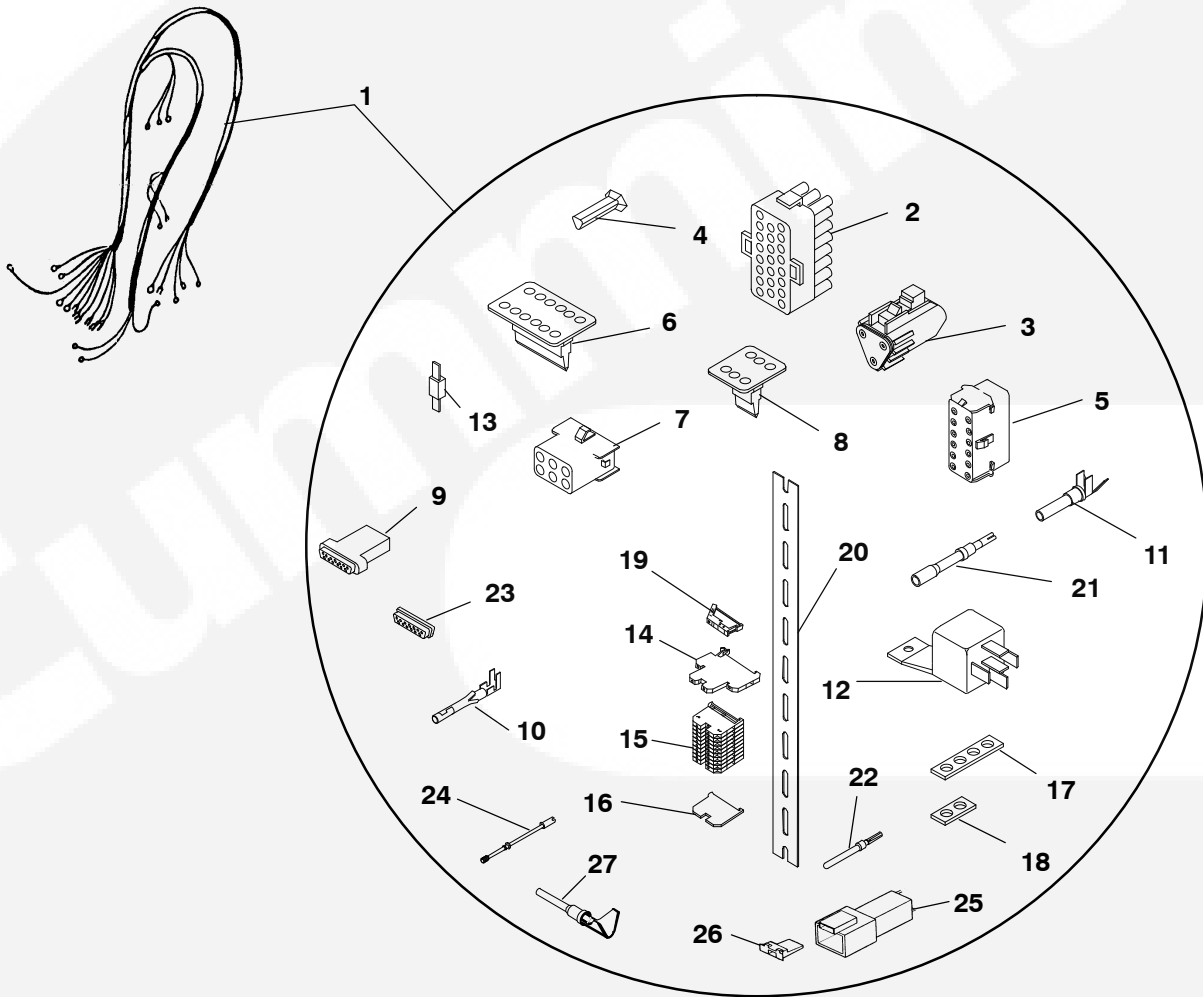
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	337-3465	1	Strap, Ground (25")	4	850-2010	1	Washer, Lock – Spring (M10)
2	508-1090	1	Grommet (Fits 3-1/4" Hole)	5	526-2120	1	Washer, Flat (M10)
3	800-2088	1	Screw, Cap – Hex Head (M10 x 35mm)				

Wiring Harness
AC



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – AC (15 Wire) (Includes Parts Listed Below)				43, 48, 49, 54, 55, 65, 66, 67, 68) High Voltage (176")
			Standard – Frame 7	2	323-1643-01	1	Plug, Connector (6 Place) (P10)
			Generators (Without	3	323-1644-03	1	Housing, Connector (12 Place) (P9)
			Remote Control) (09, 10 to	4	323-1648	15	Socket, Contract (10 Each Used In P9, 5 Each Used In P10)
			PMG, X, XX, 5, 6, 7, 8, CT21,				
			22, 23) (82")				
338-3805	1		Low Voltage				
338-3873	1		Medium Voltage				
			Remote Control				
			Frame 7 Generators (09,				
			10 to PMG, X, XX, 5, 6, 7,				
			8, CT21, 22, 23)				
338-3834	1		Low Voltage (188")				
338-3874	1		Medium Voltage (188")				
338-3806	1		Frame 8 Generators (P9,				
			P10 to 8, 9, 10, 13, 14, 42,				

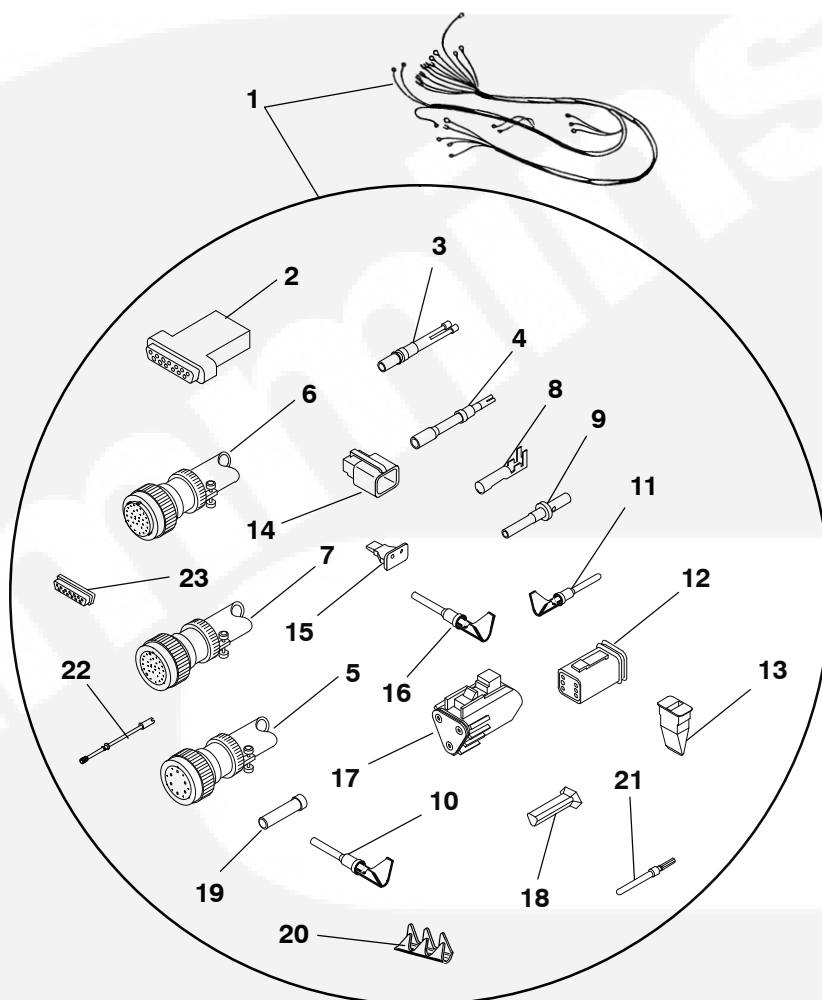
Wiring Harness Control



Wiring Harness Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3808	1	Harness, Control (Includes Parts Listed Below)	12	307-2817-02	2	Relay (24 Volt) (K14, K15)
2			Plug, Connector (23 Place)	13	357-0030	1	Rectifier, Silicon
	323-1605-01	1	Colored Black (Station 23)	14	332-3125-04	10	Block, Terminal (Single)
	323-1605-03	1	Colored Grey (Station 8)	15	332-3125-02	1	Block, Terminal (10 Terms)
3	323-1493	1	Plug, Connector (3 Place)	16	332-3126-02	3	Spacer
			(Station 22)	17	332-2843-07	2	Jumper, Terminal (4 Pole)
4	323-1503	1	Wedge (3 Place) (Used With Station 22)	18	332-2843-05	1	Jumper, Terminal (2 Pole)
5	323-1582	1	Plug, Connector (12 Place)	19	332-2878	2	Bracket, Terminal End
			(Station 21)	20	332-3637	1	Rail, Terminal (18.46")
6	323-1583	1	Wedge (12 Place) (Used With Station 21)	21	323-1835-01	53	Socket, Contact (10 Used With Station 6, 43 Used With Station 1)
7	323-1623	2	Plug, Connector (6 Place)	22	323-1847-01	4	Pin, Contact (Used With Station 12)
			(Station 7, Station Inline D)	23			Grommet
8	323-1624	2	Wedge (6 Place) (Used With Stations 7 and Inline D)		323-1843	1	50 Place
					323-1845	1	25 Place
9			Contact, Connector	24	323-1844	4	JackscREW
	323-1841	1	9 Place (Station RS232)	25	323-1505	1	Plug, Connector (2 Place)
	323-1836	1	25 Place (Station 6)				(Inline H)
	323-1837	1	50 Place (Station 1)	26	323-1501	1	Wedge (2 Place) (Used With Inline H)
10	323-1614-01	29	Pin, Contact (17 Used With Station 23, 12 Used With Station 8)	27	323-1491	2	Pin, Contact (Used With Inline H)
11	323-1492	26	Socket, Contact (11 Used With Station 21, 2 Used Station 22, 6 Used With Station 7, 5 Used With Station Inline D, 2 Used With Station 6)				

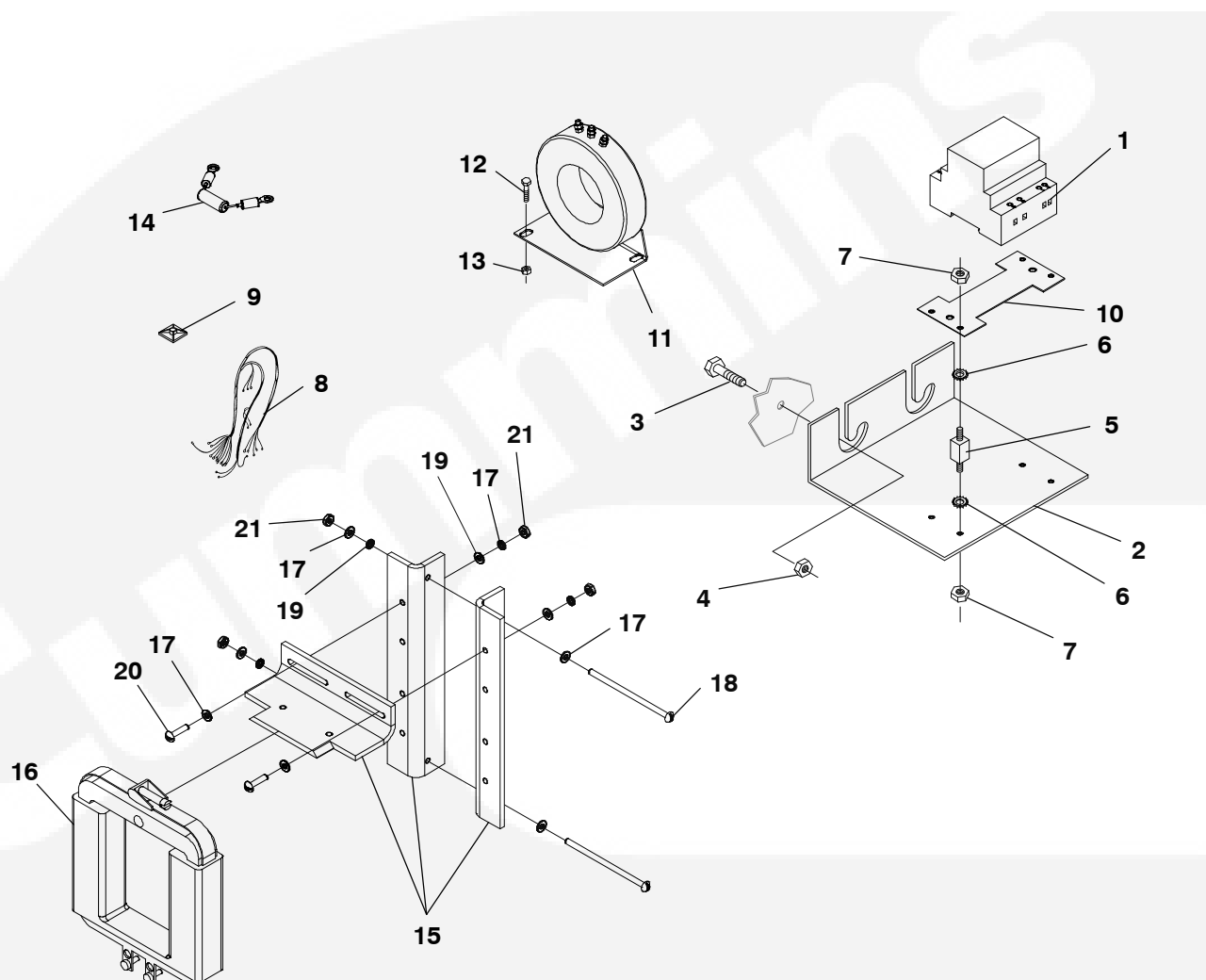
Wiring Harness Engine Extension



Wiring Harness Engine Extension

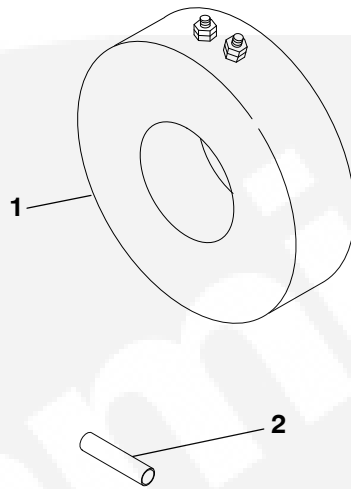
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Engine Extension (Includes All Parts Listed Below)	7			Plug, Connector (33 Place) (Without Center Collar) (Inline B)
			Set-Mounted Control		323-1831	1	Spec A-D
	338-3800	1	Spec A-D		323-2050	1	Begin Spec E
	338-4306	1	Begin Spec E	8	323-1752	30	Socket, Contact
			Free-Standing Control	9	323-1838	6	Pin, Contact
	338-3895	1	Spec A-D	10	323-1491	12	Pin, Contact (Used With 323-1625 Housing)
	338-4327	1	Begin Spec E				
2			Connector, Contact	11	323-1834	30	Pin, Contact
	323-1841	1	9 Place (Includes Screws and Locknuts) (Connector 13)	12	323-1625	1	Housing, Connector (6 Place) (Inline D)
	323-1837	2	50 Place (Includes Backshell and Hardware) (Connector 2 and 5)	13	323-1626	1	Wedge (Used With 323-1625 Housing)
3	323-1835-01	20	Socket, Contact (5/8" Long)	14	323-1504	4	Plug, Connector (2 Place)
4	323-1835-02	125	Socket, Contact (7/8" Long)	15	323-1500	4	Wedge
5			Plug, Connector (19 Place) (Inline C)	16	323-1492	8	Socket, Contact
			Spec A-D	17	323-1493	1	Plug, Connector (3 Place)
	323-1833	1	Begin Spec E	18	323-1503	1	Wedge
	323-2052	1		19	323-1591	A/R	Plug
6			Plug, Connector (33 Place) (With Center Collar) (Inline A)	20	332-3491-01	2	Pin, Contact
			Spec A-D	21	323-1847-01	9	Pin, Connector
	323-1832	1	Begin Spec E	22	323-1844	2	Jackscrew
	323-2051	1		23	323-1843	2	Grommet

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

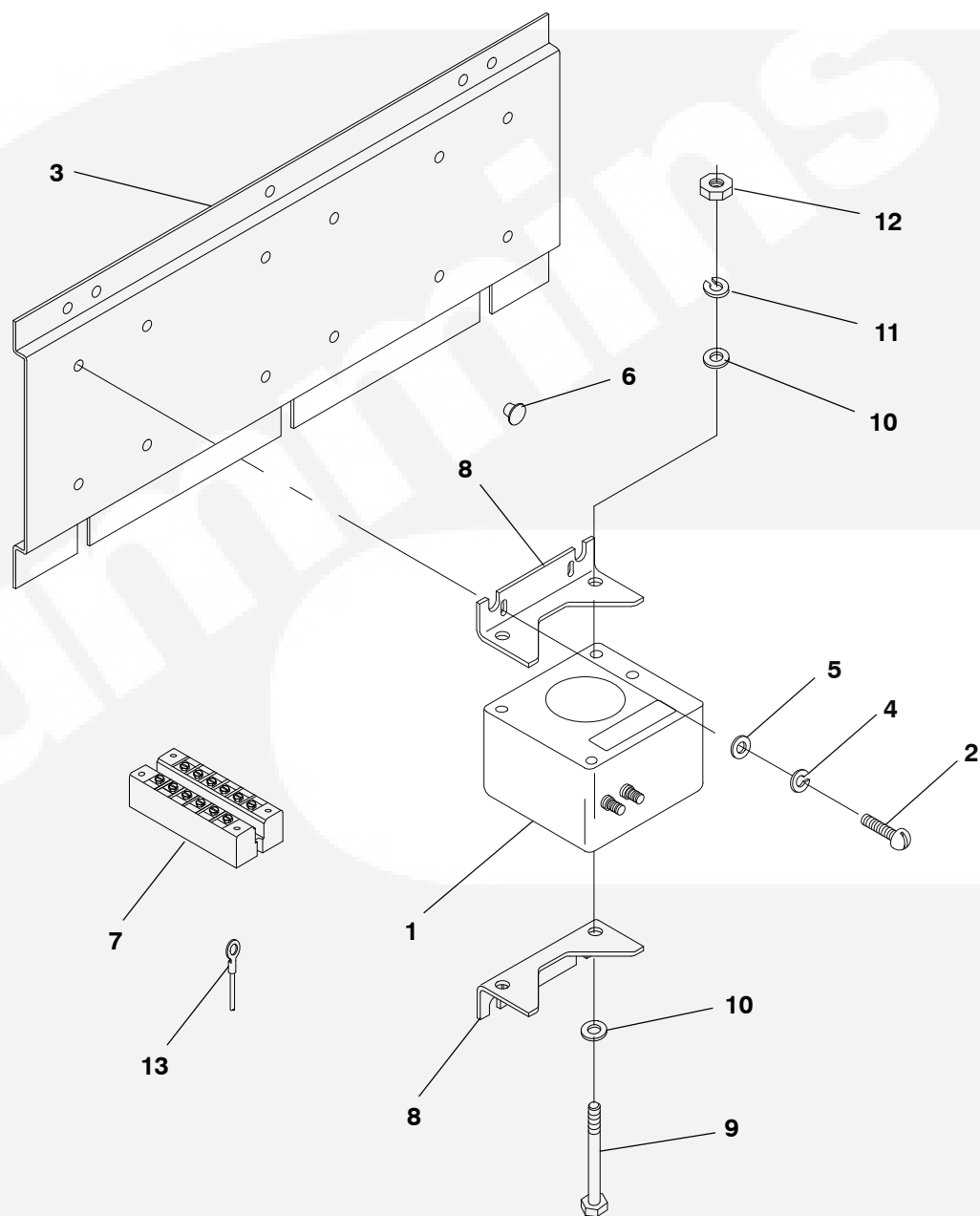
Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT21, CT22, CT23)
	302-2058-36	3	Ratio 670/1
	302-2058-37	3	Ratio 1150/1
	302-1926-34	3	Ratio 4200/1
	302-2058-34	3	Ratio 4200/1
	302-2058-32	3	Ratio 5750/1
	302-2058-31	3	Ratio 6250/1

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	898-1329	3	Sleeving, Insulation – Used On Neutral Ends Of Generator Phase Conductors (2400, 1905 DELTA and 4160, 3300 WYE) (5-1/2")

Differential Current Transformer

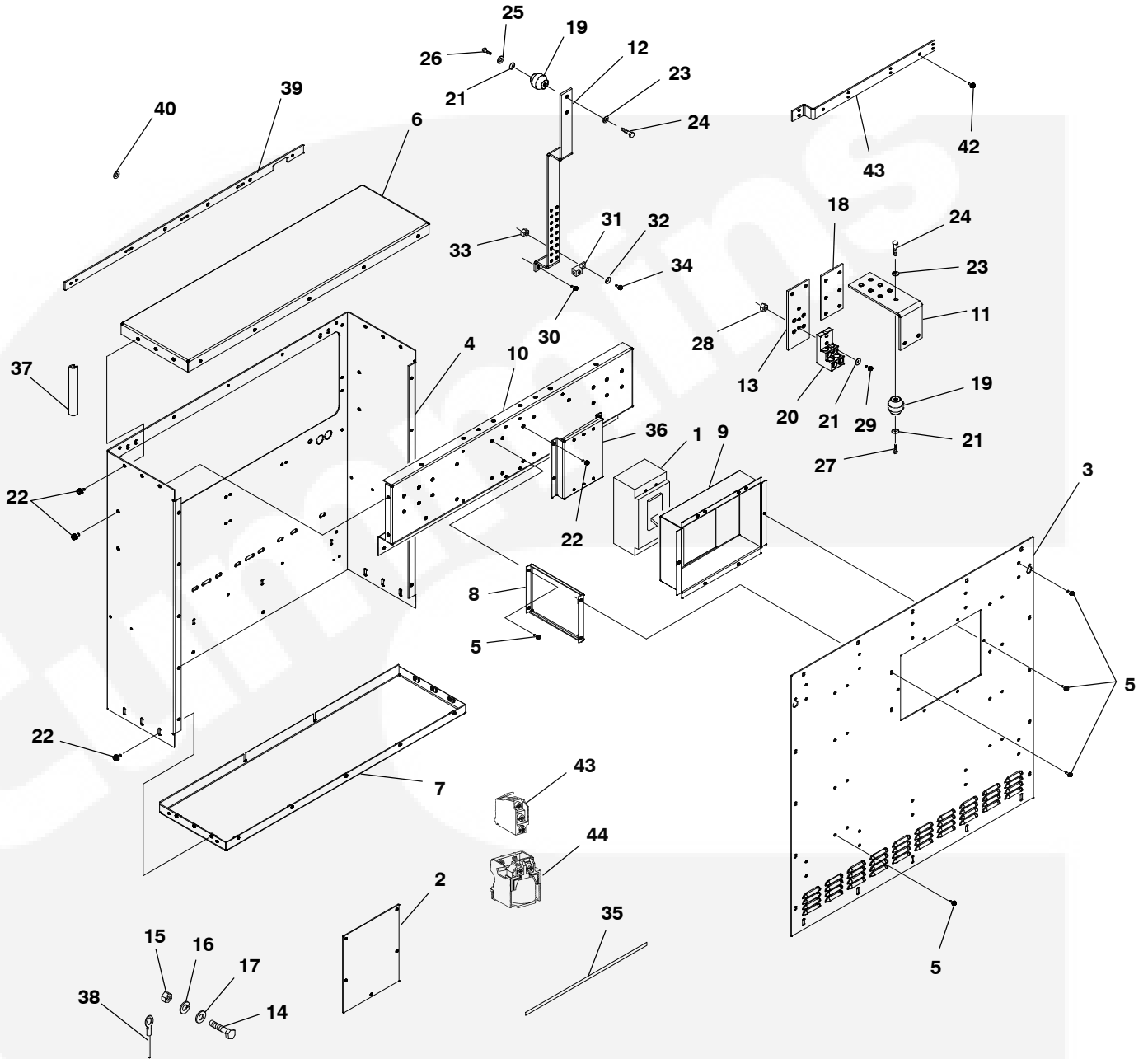


Differential Current Transformer

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT1,CT2,CT3)	2	813-0098	12	* Screw, Machine – Round Head (#10-32 x 3/8")
			5kV	3	319-1265	1	* Bracket, Current Transformer
302-1945-10	3		Ratio 75/5	4	850-0030	12	* Washer, Lock – Spring (#10)
302-1945-03	3		Ratio 100/5	5	526-0008	12	* Washer, Flat (#10)
302-1945-02	3		Ratio 150/5	6	517-0090	1	Plug, Hole (Fits 5/16" Hole) (Quantity Used As Required)
302-1945-01	3		Ratio 200/5	7	332-3178-01	1	Block, Terminal (6 Place) (SCB)
302-1945-04	3		Ratio 250/5	8	319-3297	6	* Bracket, Foot
302-1945-05	3		Ratio 300/5	9	800-0039	6	* Screw, Cap – Hex Head (5/16-18 x 3-1/2")
302-1945-06	3		Ratio 400/5	10	526-0022	12	* Washer, Flat (5/16")
302-1945-07	3		Ratio 500/5	11	850-0045	6	* Washer, Lock – Spring (5/16")
302-1945-08	3		Ratio 600/5	12	862-0015	6	* Nut, Hex (5/16-18)
302-1945-09	3		Ratio 750/5	13	226-4825	3	Jumper
302-1945-11	3		Ratio 800/5				
302-1945-12	3		Ratio 1000/5				
302-1945-13	3		Ratio 1200/5				
302-1945-14	3		Ratio 1500/5				
302-1945-15	3		Ratio 1600/5				
			600V				
302-1961-01	3		Ratio 200/5				
302-1961-02	3		Ratio 250/5				
302-1961-03	3		Ratio 300/5				
302-1961-04	3		Ratio 400/5				
302-1961-05	3		Ratio 500/5				
302-1961-06	3		Ratio 600/5				
302-1961-07	3		Ratio 750/5				
302-1961-08	3		Ratio 800/5				
302-1961-09	3		Ratio 1000/5				
302-2060-01	3		Ratio 1200/5				
302-2060-02	3		Ratio 1500/5				
302-2060-03	3		Ratio 1600/5				
302-2060-04	3		Ratio 1800/5				
302-2060-05	3		Ratio 2000/5				
302-2060-06	3		Ratio 2500/5				
302-2060-07	3		Ratio 3000/5				

* – Mounting Hardware Used With 5kV Current Transformers

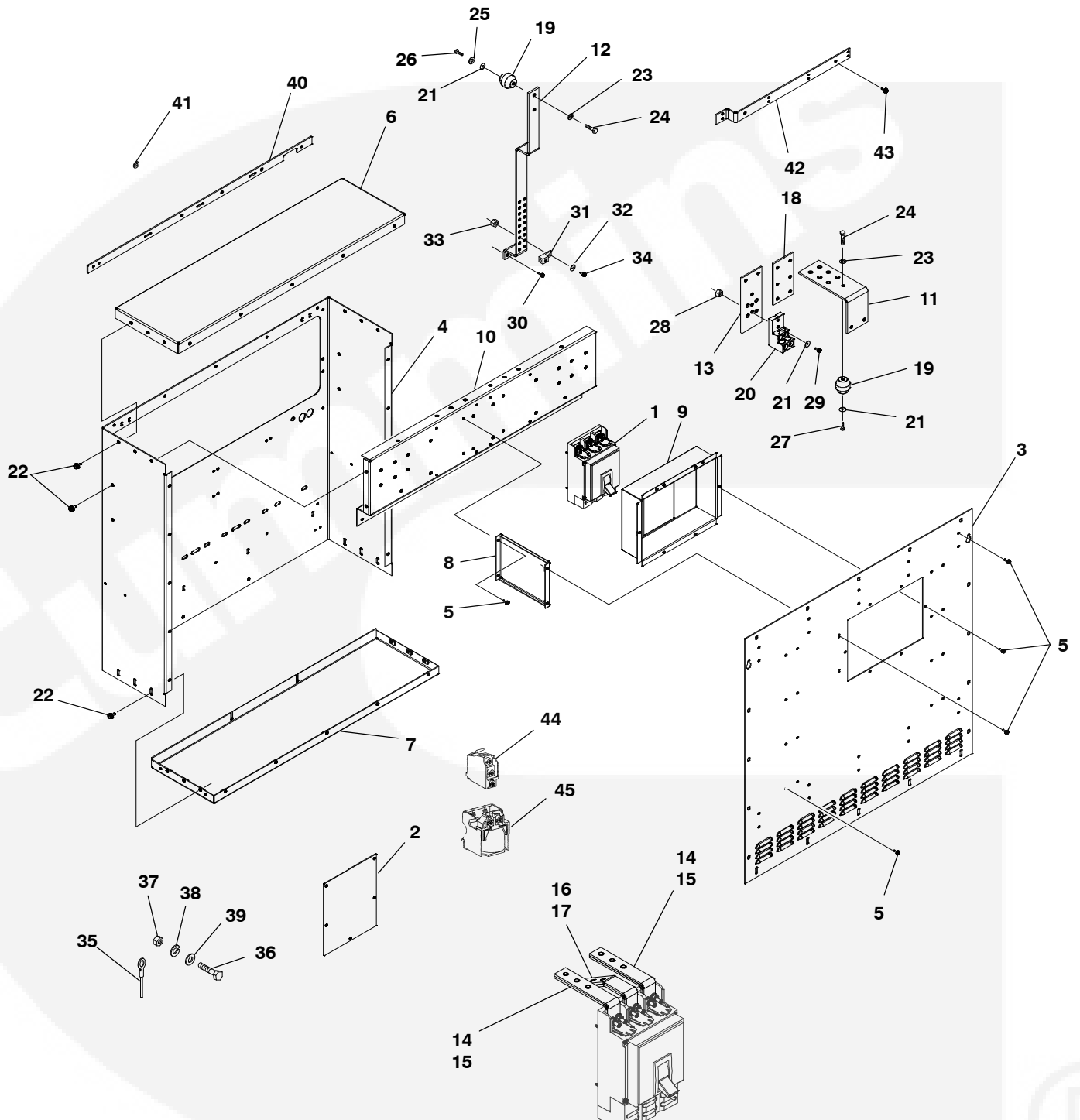
**Circuit Breaker
NSJ 600 Amp
100% UL Rated**



**Circuit Breaker
NSJ 600 Amp
100% UL Rated**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	320-1960-01	1	Breaker, Circuit – 600 Amp 3 Pole (UL & IEC) (Includes Mounting Hardware)	28	862-0003	2	Nut, Hex (3/8)
2	405-7709-02	1	Cover, Access	29	800-0053	2	Screw, Cap – Hex Head (3/8-16 x 1.75)
3			Cover, Circuit Breaker	30	815-0261	2	Screw, Hex Washer Head – Thread Forming (1/4-20 x .50)
	319-5176-04	1	Left Side Installation	31	332-3039	3	Lug, Solderless
	319-5176-05	1	Right Side Installation	32	851-0048-01	3	Washer, Belleville (5/16)
4	319-5062-02	1	Box, Circuit Breaker	33	862-0015	3	Nut, Hex (5/16)
5	821-6002-04	33	Screw, Hex Head (M6 x 1 x 20)	34	800-0028	1	Screw, Cap – Hex Head (5/16-18 x 1")
6	319-5087-02	1	Cover, Circuit Breaker	35	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers and disconnect switches) (Quantity Used As Required)
7	319-5088-02	1	Cover, Circuit Breaker	36	319-5128-02	1	Bracket, Circuit Breaker
8	319-5102-04	1	Stiffener, Cover	37	508-1109	-	Edging – Bulk (Order by the Foot – 4 Feet Required)
9	319-5078-06	1	Cup, Switch	38			Lead (Quantity Used As Required)
10	319-5123-02	1	Bracket, Circuit Breaker		226-4894-01	1	34"
11	337-3623	1	Bus, Bar – Neutral		226-4894-02	1	18"
12	337-3632	1	Bus, Bar – Ground		226-4894-05	1	38"
13	337-3631	1	Bus, Bar – Neutral		226-4894-06	1	25"
14	800-2114	5	Screw, Cap – Hex Head (M12 x 1.75 x 40)	39	319-5155-02	4	Spacer, Circuit Breaker Box
15	860-2010	5	Nut, Hex (M12)	40	526-0399-58	9	Washer, Flat (M6) (Used With Spacer)
16	850-2012	5	Washer, Lock – Split (M12)	41	337-3736	1	Bus, Bar – Ground
17	526-2140	10	Washer, Flat (M12)	42	800-0030	2	Screw, Cap – Hex Head (5/18-18 x 1-1/4)
18	337-3625	1	Bus, Bar – Jumper				Accessories, Circuit Breaker:
19	332-2512	8	Standoff, Insulator	43	320-1981-01	2	Switch – Used as a Trip
20	332-1557	1	Lug	44	320-1981-03	1	Alarm or Auxiliary Contact
21	851-0048-02	10	Washer, Belleville (3/8)				24 Volt Shunt Trip
22	821-6003-01	42	Screw, Hex Head (M8 x 1.25 x 16)				
23	850-0050	8	Washer, Lock – Split (3/8)				
24	800-0048	8	Screw, Cap – Hex Head (3/8-16 x .75)				
25	526-0077	2	Washer, Flat				
26	800-0050	6	Screw, Cap – Hex Head (3/8-16 x 1")				
27	800-0049	2	Screw, Cap – Hex Head (3/8-16 x .88)				

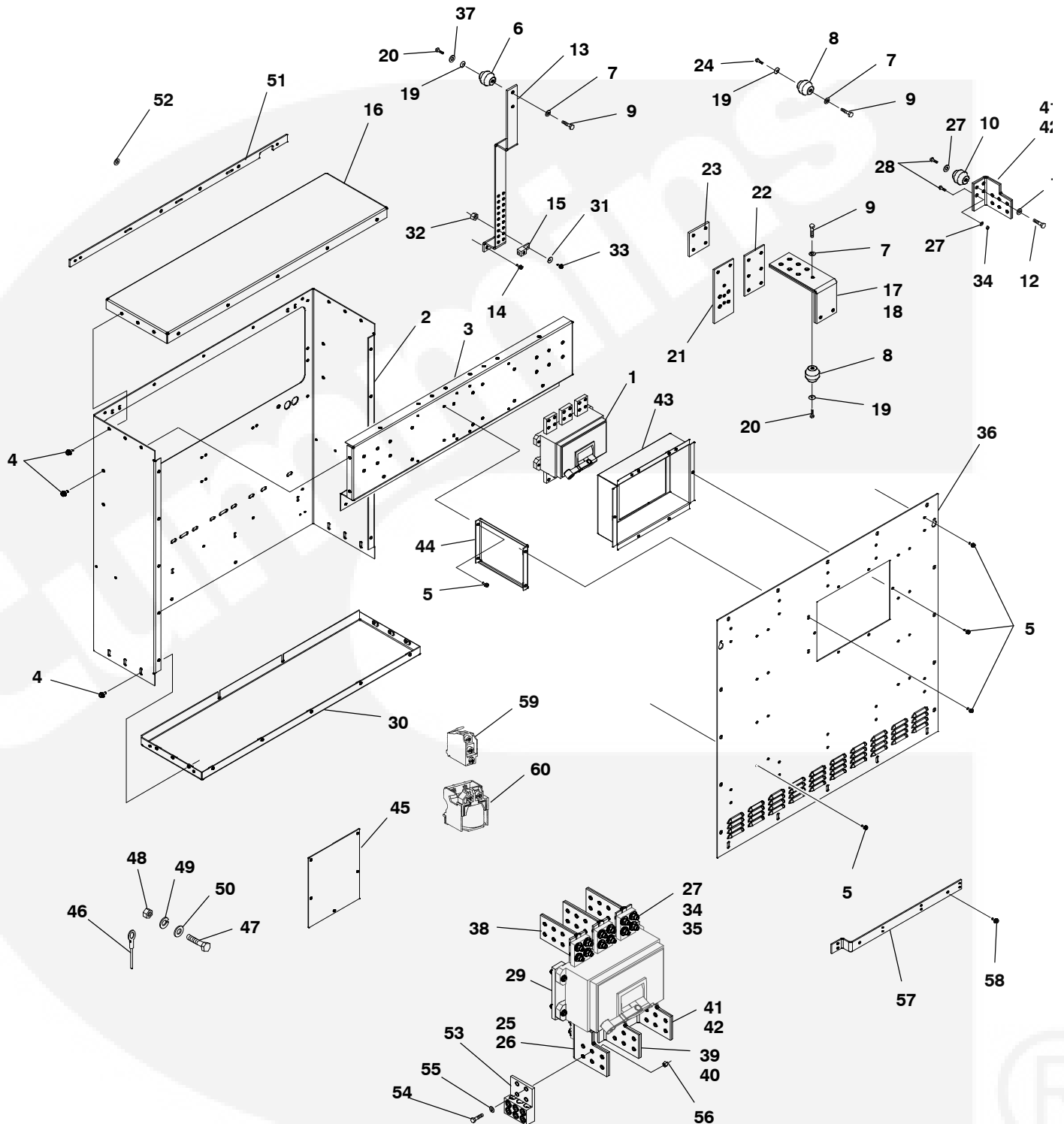
**Circuit Breaker
P-Frame 800–1200 Amp
100% UL
Rated**



Circuit Breaker
P-Frame 800–1200 Amp
100% UL Rated

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit – 3 Pole (UL & IEC) (Includes Mounting Hardware)	27	800–0049	2	Screw, Cap – Hex Head (3/8–16 x .88)
	320–2182	1	800 Amp	28	862–0003	2	Nut, Hex (3/8)
	320–2183	1	1200 Amp	29	800–0053	2	Screw, Cap – Hex Head (3/8–16 x 1.75)
2	405–7709–02	1	Cover, Access	30	815–0261	2	Screw, Hex Washer Head – Thread Forming (1/4–20 x .50)
3			Cover, Circuit Breaker				
	319–5176–04	1	Left Side Installation	31	332–3039	5	Lug, Solderless
	319–5176–05	1	Right Side Installation	32	851–0048–01	5	Washer, Belleville (5/16)
4	319–5062–02	1	Box, Circuit Breaker	33	862–0015	5	Nut, Hex (5/16)
5	821–6002–04	33	Screw, Hex Head (M6 x 1 x 20)	34	800–0028	3	Screw, Cap – Hex Head (5/16–18 x 1")
6	319–5087–02	1	Cover, Circuit Breaker				Lead (Quantity Used As Required)
7	319–5088–02	1	Cover, Circuit Breaker	35			36"
8	319–5102–04	1	Stiffener, Cover		226–4894–03	1	18"
9	319–5078–05	1	Cup, Switch		226–4894–02	1	
10	319–5123–02	1	Bracket, Circuit Breaker	36	800–2114	24	Screw, Cap – Hex Head (M12 x 1.75 x 40)
11	337–3623	1	Bus, Bar – Neutral				Nut, Hex (M12)
12	337–3632	1	Bus, Bar – Ground	37	860–2010	24	Washer, Lock – Split (M12)
13	337–3631	1	Bus, Bar – Neutral	38	850–2012	24	Washer, Flat (M12)
14	337–3629–01	2	Bus, Bar – Breaker	39	526–2140	A/R	Spacer, Circuit Breaker Box
15	337–3629–02	2	Bus, Bar – Breaker	40	319–5155–02	4	Washer, Flat (M6) (Used With Spacer)
16	337–3628–01	1	Bus, Bar – Breaker	41	526–0399–58	9	Bus, Bar – Ground
17	337–3628–02	1	Bus, Bar – Breaker	42	337–3736	1	Screw, Cap – Hex Head (5/18–18 x 1-1/4)
18	337–3625	1	Bus, Bar – Jumper	43	800–0030	2	Accessories, Circuit Breaker:
19	332–2512	8	Standoff, Insulator	44	320–2196–01	2	Switch – Used as a Trip
20	332–1557	1	Lug	45	320–2196–02	1	Alarm or Auxiliary Contact
21	851–0048–02	10	Washer, Belleville (3/8)				24 Volt Shunt Trip
22	821–6003–02	38	Screw, Hex Head (M8 x 1.25 x 20)				
23	850–0050	8	Washer, Lock – Split (3/8)				
24	800–0048	8	Screw, Cap – Hex Head (3/8–16 x .75)				
25	526–0077	2	Washer, Flat				
26	800–0050	6	Screw, Cap – Hex Head (3/8–16 x 1")				

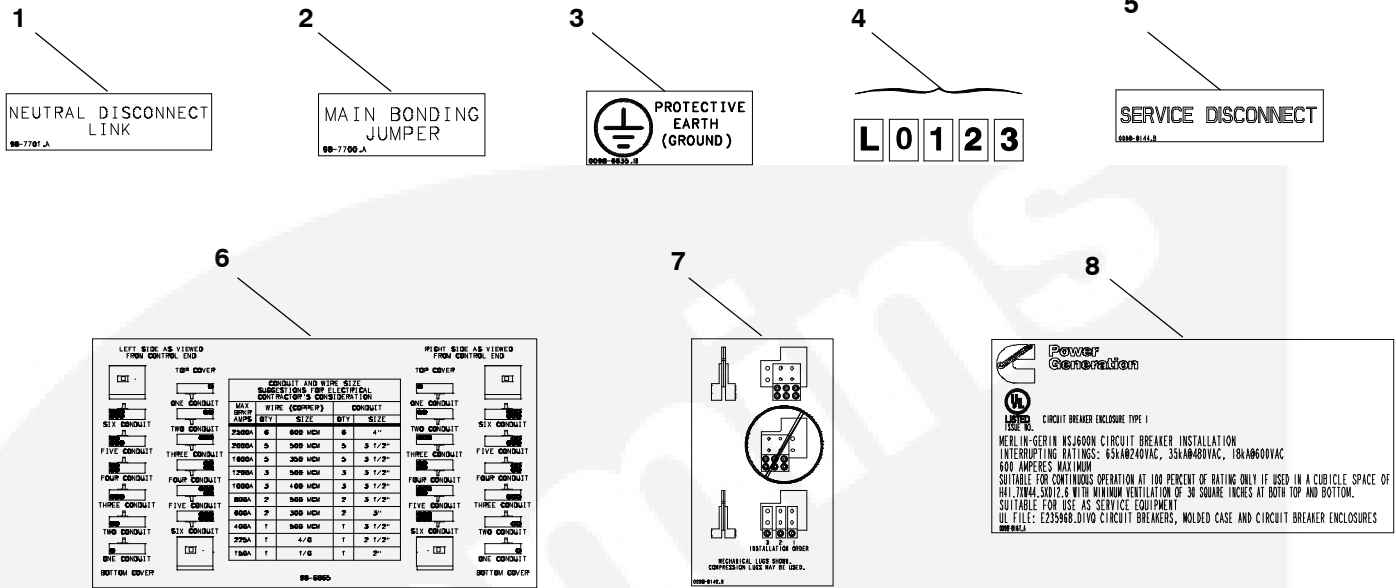
**Circuit Breaker
R-Frame 1600-2500 Amp
100% UL
Rated**



Circuit Breaker
R-Frame 1600–2500 Amp
100% UL Rated

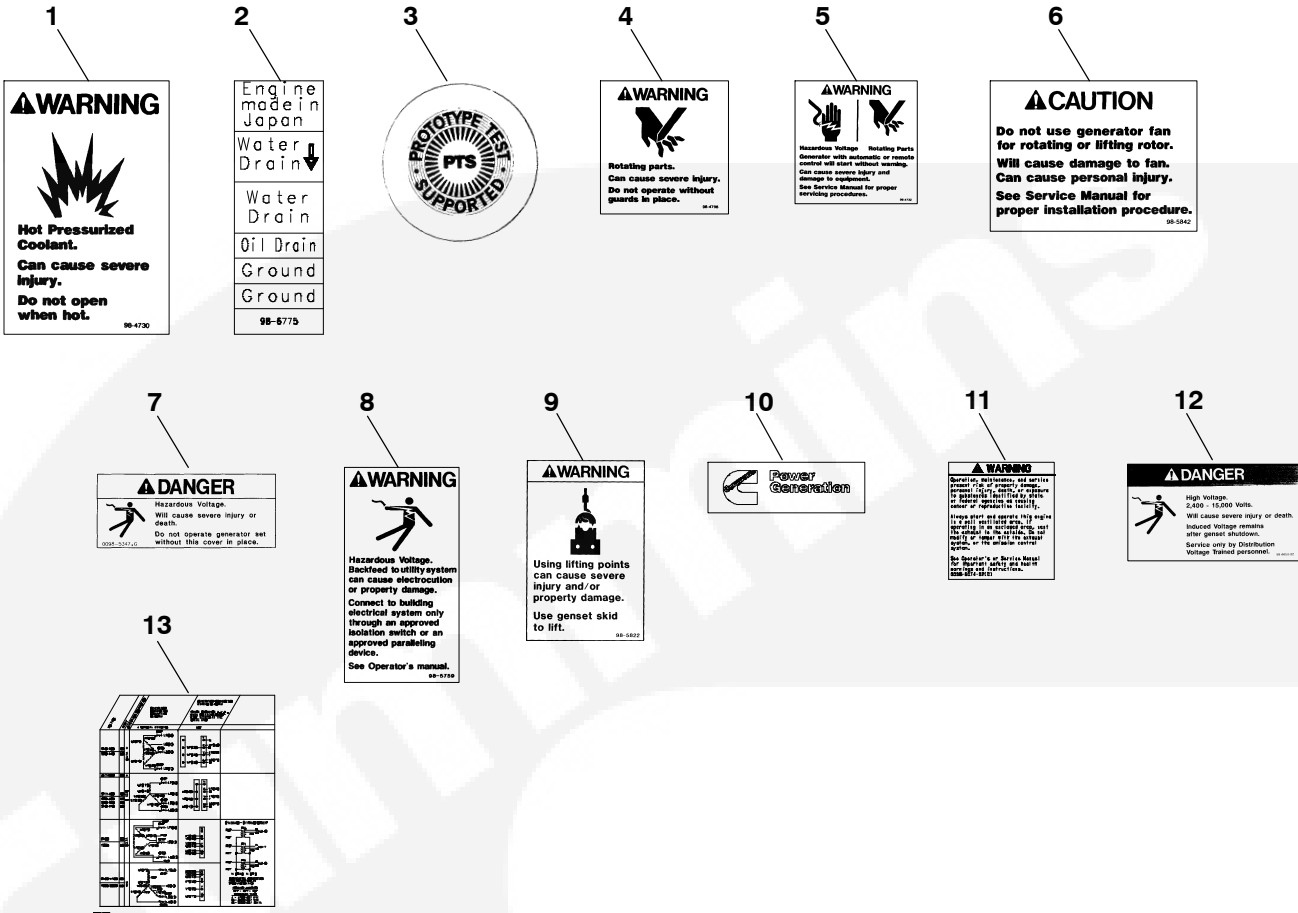
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit – 3 Pole (UL & IEC) (Includes Mounting Hardware)	31	851-0048-01	7	Washer, Belleville (5/16)
	320-2164-03	1	1600 Amp	32	862-0015	7	Nut, Hex (5/16)
	320-2164-02	1	2000 Amp	33	800-0028	5	Screw, Cap – Hex Head (5/16–18 x 1")
	320-2164-01	1	2500 Amp	34	862-0005	27	Nut, Hex (1/2)
2	319-5062-02	1	Box, Circuit Breaker	35	800-0094	27	Screw, Cap – Hex Head (1/2–13 x 2)
3	319-5065-02	1	Bracket, Circuit Breaker	36			Cover, Circuit Breaker
4	821-6003-02	38	Screw, Hex Head (M8 x 1.25 x 20)		319-5176-04	1	Left Side Installation
					319-5176-05	1	Right Side Installation
5	821-6002-04	33	Screw, Hex Head (M6 x 1 x 20)	37	526-0077	2	Washer, Flat
6	332-2744-07	1	Standoff, Insulator	38	337-3618	6	Bus, Bar – Breaker
7	850-0050	11	Washer, Lock – Split (3/8)	39	337-3619-01	1	Bus, Bar – Breaker
8	332-2512	5	Standoff, Insulator	40	337-3619-02	1	Bus, Bar – Breaker
9	800-0048	7	Screw, Cap – Hex Head (3/8–16 x .75)	41			Bus, Bar – Breaker
					337-3620-01	1	Left Side Insulation
10	332-2743-07	1	Standoff, Insulator		337-3620-01	2	Right Side Insulation
11	850-0060	1	Washer, Lock – Split (1/2)	42			Bus, Bar – Breaker
12	800-0090	1	Screw, Cap – Hex Head (1/2–13 x 1.00)		337-3621-01	1	Left Side Insulation
					337-3621-01	2	Right Side Insulation
13	337-3626	1	Bus, Bar – Ground	43	319-5078-04	1	Cup, Switch
14	815-0261	2	Screw, Hex Washer Head – Thread Forming (1/4–20 x .50)	44	319-5102-03	1	Stiffener, Cover
				45	405-7709-02	1	Cover, Access
				46			Lead (Quantity Used As Required)
15	332-3039	7	Lug, Solderless		226-4894-03	1	36"
16	319-5087-02	1	Cover, Circuit Breaker – Top		226-4894-02	1	18"
17	337-3623	1	Bus, Bar – Neutral	47	800-2114	A/R	Screw, Cap – Hex Head (M12 x 1.75 x 40)
18	337-3624	1	Bus, Bar – Neutral	48	860-2010	A/R	Nut, Hex (M12)
19	851-0048-02	7	Washer, Belleville (3/8)	49	850-2012	A/R	Washer, Lock – Split (M12)
20	800-0050	3	Screw, Cap – Hex Head (3/8–16 x 1")	50	526-2140	A/R	Washer, Flat (M12)
21	337-3631	2	Bus, Bar – Neutral	51	319-5155-02	4	Spacer, Circuit Breaker Box
22	337-3625	1	Bus, Bar – Jumper	52	526-0399-58	9	Washer, Flat (M6) (Used With Spacer)
23	337-3627	1	Bus, Bar – Neutral	53	332-3949	8	Lug, Cable – Solderless
24	800-0052	4	Screw, Cap – Hex Head (3/8–16 x 1.5)	54	800-0054	16	Screw, Cap – Hex Head (3/8–16 x 2.00)
25			Bus, Bar – Breaker	55	851-0022	16	Washer, Spring (3/8)
	337-3620-02	2	Left Side Insulation	56	862-0003	16	Nut, Hex (3/8)
	337-3620-02	1	Right Side Insulation	57	337-3736	1	Bus, Bar – Ground
26			Bus, Bar – Breaker	58	800-0030	2	Screw, Cap – Hex Head (5/18–18 x 1-1/4)
	337-3621-02	2	Left Side Insulation				Accessories, Circuit Breaker:
	337-3621-02	1	Right Side Insulation	59	320-2196-01	2	Switch – Used as a Trip
27	851-0048-03	28	Washer, Belleville (1/2)				Alarm or Auxiliary Contact
28	800-0093	4	Screw, Cap – Hex Head (1/2–13 x 1.75)	60	320-2196-02	1	24 Volt Shunt Trip
29	232-4131	2	Spacer, Mounting Foot				
30	319-5088-02	1	Cover, Circuit Breaker – Bottom				

Labels – Circuit Breaker 100% UL Rated



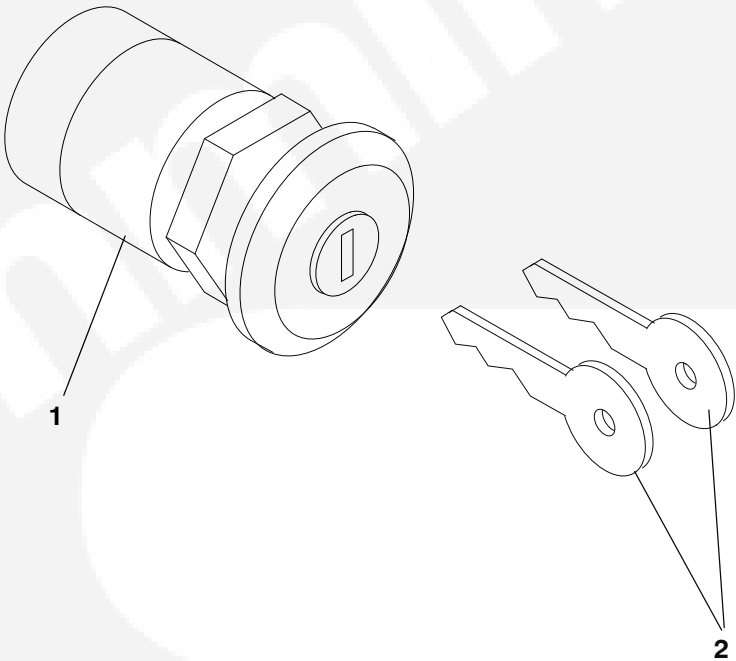
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-7701	1	Label, Neutral Disconnect Link	8			Label, Information
2	098-7700	1	Label, Bonding Jumper	098-8169	1		P-Frame – 1200 Amp (150V Line to Neutral Maximum)
3	098-6635	1	Label, Ground				
4			Label, Marker (10 Characters Per Card) (Quantity Used As Required)				
	098-5854-06	1	Marked "L"				
	098-5854-07	1	Marked "1"				
	098-5854-08	1	Marked "2"				
	098-5854-09	1	Marked "3"				
	098-5854-10	1	Marked "0"				
5	098-8144	1	Label, Information (Service Disconnect)				
6	098-6865	1	Label, Conduit Location				
7	098-8149	1	Label, Information (Lug Installation)				

Labels Miscellaneous



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-4730	A/R	Label, Warning	9	098-7614	A/R	Label, Warning
2	098-6775	1	Label, Water Drain and Oil Drain	10	098-7902-03 A/R		Label, Logo
3	098-4500	1	Label, Prototype Tested		098-7902-04 A/R		100mm x 310mm
4	098-4798	A/R	Label, Warning				152mm x 471mm
5	098-4732	A/R	Label, Warning	11	098-6074-02 A/R		Label, Warning
6	098-5842	A/R	Label, Caution	12			Label, Danger
7	098-5347	A/R	Label, Danger		098-6650-01 A/R		6.75 x 4.00
8	098-5759	A/R	Label, Warning		098-6650-02 A/R		9.00 x 5.00
				13	098-7619	A/R	Label, Generator Connection

Key Operator Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	308-1045	1	Switch, Key Operator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	308-1046	2	Key



Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
091-0002, 88		130-4362, 34		130-5032-02, 34		130-5261-02, 22	
098-2235-02, 20		130-4517, 24 , 26 , 28		130-5033-02, 34		130-5262-02, 22	
098-4500, 94		130-4538, 14		130-5034-02, 36		130-5263-02, 22	
098-4730, 94		130-4546, 14 , 18		130-5035-02, 36		130-5265-02, 22	
098-4732, 94		130-4552, 16 , 20		130-5036-02, 34		130-5266-02, 22	
098-4798, 94		130-4787, 20		130-5037-02, 34		130-5279-02, 26	
098-5347, 64 , 94		130-4885, 34		130-5045-02, 30		130-5280-02, 26	
098-5759, 94		130-4888-02, 34		130-5046-02, 34		130-5281-02, 26 , 28	
098-5842, 94		130-4896-02, 34		130-5047-02, 34		130-5282-02, 26 , 28	
098-5854-06, 93		130-4897-02, 34		130-5061-02, 34		130-5305-02, 22	
098-5854-07, 93		130-4900-02, 34		130-5062-02, 34		130-5323, 37 , 46	
098-5854-08, 93		130-4900-04, 34		130-5064, 34		130-5325, 37 , 38 , 39 , 40 , 41 , 43	
098-5854-09, 93		130-4901-02, 34		130-5067-02, 30		130-5326, 37 , 39 , 40	
098-5854-10, 93		130-4901-04, 34		130-5069-02, 24		130-5327, 37 , 40	
098-6074-02, 64 , 94		130-4902-02, 34		130-5070-02, 24		130-5328, 40	
098-6537, 64		130-4903-02, 34		130-5071-02, 24		130-5329, 50 , 52	
098-6635, 59 , 93		130-4904-02, 34		130-5077-02, 14		130-5331, 50	
098-6650-01, 94		130-4907-02, 36		130-5078-02, 14		130-5332, 50 , 52	
098-6650-02, 94		130-4908-02, 30		130-5079-02, 14		130-5333, 50 , 52	
098-6775, 94		130-4910-02, 34		130-5080-02, 14		130-5334, 50 , 52	
098-6865, 93		130-4914-02, 30		130-5081-02, 24 , 26 , 28		130-5335, 43 , 50	
098-7244, 20		130-4919-02, 30		130-5082-02, 24 , 26 , 28		130-5336, 50 , 52	
098-7614, 94		130-4920, 34		130-5084-02, 24 , 26 , 28		130-5337, 50	
098-7619, 94		130-4921-02, 30		130-5085-02, 30		130-5339, 43 , 50 , 52	
098-7700, 93		130-4934-02, 30		130-5089-02, 14		130-5340, 50 , 52	
098-7701, 93		130-4935-02, 30		130-5089-04, 18		130-5341, 50	
098-7902-03, 64 , 94		130-4936-02, 30		130-5090, 55		130-5342, 37 , 38 , 39 , 40 , 41	
098-7902-04, 94		130-4937-02, 30		130-5096, 31		130-5344, 50	
098-7954, 12		130-4938-02, 34		130-5097, 31		130-5345, 50	
098-8144, 93		130-4939-02, 34		130-5098, 31		130-5346, 37 , 40 , 41 , 50	
098-8149, 93		130-4940, 34		130-5099, 31 , 32		130-5347, 50	
098-8169, 93		130-4946-02, 30		130-5101, 31		130-5348, 50	
128-0108, 14 , 18		130-4947-02, 30		130-5102, 32		130-5350, 40	
130-0449, 22 , 34		130-4950-02, 30		130-5103, 32		130-5351, 50	
130-3588, 34		130-4951-02, 30		130-5104, 32		130-5353, 50	
130-3652, 34		130-4952-02, 34		130-5105, 32		130-5354, 46 , 50 , 52	
130-3660, 34		130-4953-02, 34		130-5118-02, 34		130-5355, 46 , 50 , 52	
130-3660-03, 14 , 18		130-4955-02, 34		130-5119-02, 34		130-5356, 46 , 50 , 52	
130-3687, 24 , 26 , 28		130-4966-02, 30		130-5145-02, 24		130-5357, 46 , 50	
130-3766, 22		130-4967-02, 34		130-5168-02, 24 , 26 , 28 , 36		130-5358, 46 , 50	
130-3772, 22		130-4974-02, 34		130-5259-02, 22		130-5359, 52	
130-3773, 22		130-4975-02, 34		130-5260-02, 22			
130-3774, 22		130-4976-02, 34					

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
130-5390-02, 26		130-5846, 54		130-8139, 43		184-0091, 10	
130-5393-02, 26		130-5848, 53, 54		130-8144, 43		184-0092, 10	
130-5414, 46, 50, 52		130-5849, 53, 54		130-8153, 43		184-0093, 10	
130-5415, 46, 50, 52		130-5850, 53		130-8154, 43		193-0458-02, 75	
130-5416, 43, 50		130-5859-02, 53		133-0226, 18		193-0486, 24, 26, 28, 36, 56	
130-5417, 43, 52		130-5860-02, 53		140-1260, 10, 12		200-3054-06, 66	
130-5418, 47, 50, 52		130-5861-02, 53		140-1548, 10		200-3054-08, 66	
130-5419, 37, 38, 39, 40, 41, 43, 47, 50, 52		130-5862-02, 53		140-3288-02, 10, 12		200-3055-05, 66	
130-5420, 38, 39, 43, 47, 50, 52		130-5863-02, 53		140-3504-02, 12		200-3055-06, 66	
130-5458-02, 28		130-5864-02, 53		140-3505-02, 12		200-3055-11, 66	
130-5549, 38, 41		130-5886-02, 54		140-3506-02, 12		200-3128-06, 66	
130-5550, 38, 39		130-5887-02, 54		140-3507-02, 12		226-4825, 86	
130-5551, 38		130-5888-02, 54		140-3508-02, 12		226-4894-01, 88	
130-5552, 38		130-5889-02, 54		140-3515-02, 12		226-4894-02, 88, 90, 92	
130-5554, 52		130-5890-02, 54		140-3516-02, 12		226-4894-03, 90, 92	
130-5555, 52		130-5953, 41		140-3517-02, 12		226-4894-05, 88	
130-5556, 52		130-5955, 38		140-3518-02, 12		226-4894-06, 88	
130-5557, 52		130-5956, 41		140-3546-02, 12		232-3710-01, 57	
130-5641-02, 28		130-5959, 41		140-3963, 10		232-3710-02, 57	
130-5642-02, 28		130-5960, 41		155-0899, 22		232-3710-03, 57	
130-5705, 50		130-5961, 41		155-2503, 22		232-3710-07, 57	
130-5706, 50		130-5962, 39, 52		155-2514, 22		232-3849, 58	
130-5707, 50		130-5963, 52		155-3021, 14, 18		232-4061, 57	
130-5708, 50		130-5964, 39, 52		155-3288, 34		232-4131, 92	
130-5709, 37		130-5965, 52		155-3289, 22, 24, 26, 28, 30		232-4139-02, 57	
130-5710, 40, 43		130-5966, 52		155-3290, 24, 26, 28, 36		249-0798, 65	
130-5713, 50		130-5967, 52		155-4031, 28		249-5092-05, 66	
130-5714, 50		130-5968, 37, 43		155-4101, 12		249-5092-06, 66	
130-5716, 38, 52		130-5969, 38		179-2801, 43		249-5092-07, 66	
130-5721, 52		130-5970, 40		179-2852, 52		249-5092-08, 66	
130-5732, 10		130-5971, 38, 39		179-2862, 50		249-5093-06, 66	
130-5770-02, 18		130-5972, 38, 39		179-2988, 50		249-5093-07, 66	
130-5771-02, 18		130-5973, 38, 40		179-3173, 52		249-5093-08, 66	
130-5772-02, 18		130-6244, 52		179-3291, 52		249-5095-06, 66	
130-5773-02, 18		130-6245, 50, 52		184-0078, 10		249-5095-08, 66	
130-5774-02, 28		130-6734, 46		184-0079, 10		249-5104-01, 66	
130-5841, 54		130-6748, 43		184-0080, 10		249-5104-02, 66	
130-5842, 54		130-6749, 43		184-0082, 10		249-5104-07, 66	
130-5843, 54		130-6750, 43		184-0084, 10		249-5104-08, 66	
130-5844, 53		130-6751, 43		184-0087, 10		249-5104-13, 66	
130-5845, 53		130-6764, 43		184-0088, 10		249-5104-14, 66	
		130-6765, 43		184-0089, 10		249-5104-19, 66	
		130-6770, 46, 52					

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
249-5104-20, 66		300-4309-03, 70		302-2058-34, 84		319-3650-02, 70	
249-5104-21, 66		300-4309-04, 70		302-2058-36, 84		319-3672-02, 62 , 64	
249-5104-25, 67		300-4515-01, 74		302-2058-37, 84		319-3786-02, 62 , 64	
249-5104-26, 67		300-4515-02, 74		302-2060-01, 86		319-3910-02, 64	
249-5104-28, 67		300-4968, 72		302-2060-02, 86		319-3911-02, 64	
249-5104-29, 67		300-4969, 72		302-2060-03, 86		319-3912-02, 64	
249-5104-31, 67		300-4970, 72		302-2060-04, 86		319-3913-02, 64	
249-5104-32, 67		300-5187, 72		302-2060-05, 86		319-3914-02, 64	
249-5104-33, 67		300-5241, 72		302-2060-06, 86		319-3915-02, 64	
249-5104-34, 67		300-5270, 72		302-2060-07, 86		319-3916-02, 64	
249-5104-35, 67		300-5280-02, 73		304936400, 24 , 26 , 28		319-3917-02, 64	
249-5104-36, 67		300-5291, 73		307-1056, 76		319-3919-02, 64	
249-5104-40, 67		300-5311-S0, 73		307-1058, 76		319-3920-02, 64	
249-5104-41, 67		300-5311-S1, 73		307-2711, 22		319-3921-02, 64	
249-5104-43, 67		300-5312-S0, 73		307-2817-02, 80		319-3968-02, 70	
249-5104-44, 67		301-6987, 83		307-2859, 16		319-3994-02, 62	
249-5104-46, 67		302-1926-34, 84		307-3003-01, 83		319-3995-02, 62	
249-5104-47, 67		302-1945-01, 86		307-3089, 20		319-3996-02, 62	
249-5104-48, 67		302-1945-02, 86		308-1045, 95		319-3997-02, 62	
249-5104-54, 67		302-1945-03, 86		308-1046, 95		319-3998-02, 62	
249-5107-01, 67		302-1945-04, 86		309-0635-02, 22 , 26 , 28 , 30 , 46 , 50 , 52		319-3999-02, 62	
249-5107-02, 67		302-1945-05, 86		309-0649, 14		319-4000-02, 62	
249-5107-07, 67		302-1945-06, 86		309-0711, 18		319-4001-02, 62	
249-5107-08, 67		302-1945-07, 86		309-0713, 43		319-4002-02, 62	
249-5107-13, 67		302-1945-08, 86		315-1605-01, 83		319-4003-02, 62	
249-5107-14, 67		302-1945-09, 86		315-1621, 83		319-4004-02, 62	
249-5107-19, 67		302-1945-10, 86		315-1622, 83		319-4005-02, 62	
249-5107-20, 67		302-1945-11, 86		317755600, 14 , 18		319-4006-02, 62	
249-5107-21, 67		302-1945-12, 86		319-1265, 86		319-4007-02, 62	
249-5107-25, 67		302-1945-13, 86		319-1293, 75		319-4126-02, 62	
249-5107-26, 67		302-1945-14, 86		319-2814, 16		319-4138-02, 62	
249-5107-28, 67		302-1945-15, 86		319-2815, 14		319-4141-02, 70	
249-5107-29, 67		302-1961-01, 86		319-3286, 59		319-4455-02, 62	
249-5107-31, 68		302-1961-02, 86		319-3288, 59		319-5038-02, 83	
249-5107-32, 68		302-1961-03, 86		319-3297, 86		319-5062-02, 59 , 88 , 90 , 92	
249-5107-33, 68		302-1961-04, 86		319-3583-02, 62 , 70		319-5065-02, 92	
249-5107-34, 68		302-1961-05, 86		319-3584-02, 70		319-5078-04, 92	
300-4306, 70		302-1961-06, 86		319-3585-02, 70		319-5078-05, 90	
300-4308-01, 70		302-1961-07, 86		319-3586-02, 70		319-5078-06, 88	
300-4308-02, 70		302-1961-08, 86		319-3605-02, 72		319-5087-02, 59 , 88 , 90 , 92	
300-4308-03, 70		302-1961-09, 86		319-3606-02, 72		319-5088-02, 59 , 88 , 90 , 92	
300-4309-01, 70		302-2058-31, 84		319-3649-02, 70			
300-4309-02, 70		302-2058-32, 84					

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
319-5102-03, 92		323-1614-01, 72 , 80		331-0554, 16		337-3620-02, 92	
319-5102-04, 88 , 90		323-1623, 80		331-0555, 16 , 20		337-3621-01, 92	
319-5123-02, 88 , 90		323-1624, 80		332-1468, 16 , 20		337-3621-02, 92	
319-5128-02, 88		323-1625, 82		332-1469, 16 , 20		337-3623, 88 , 90 , 92	
319-5155-02, 59 , 88 , 90 , 92		323-1626, 82		332-1557, 88 , 90		337-3624, 92	
319-5162-02, 59		323-1637, 14		332-2001, 59		337-3625, 88 , 90 , 92	
319-5163-02, 59		323-1643-01, 78		332-2420, 74 , 83		337-3626, 92	
319-5176-04, 88 , 90 , 92		323-1644-03, 78		332-2512, 88 , 90 , 92		337-3627, 92	
319-5176-05, 88 , 90 , 92		323-1648, 78		332-2634, 18		337-3628-01, 90	
319-5176-06, 59		323-1652, 16 , 20		332-2743-07, 92		337-3628-02, 90	
319-6838, 18		323-1708, 24 , 26 , 28 , 56		332-2744-07, 92		337-3629-01, 90	
320-1960-01, 88		323-1709, 24 , 26 , 28 , 56		332-2843-05, 80		337-3629-02, 90	
320-1981-01, 88		323-1718, 16 , 20		332-2843-07, 80		337-3631, 88 , 90 , 92	
320-1981-03, 88		323-1752, 82		332-2878, 80		337-3632, 88 , 90	
320-2164-01, 92		323-1765, 24 , 26 , 28 , 56		332-2921, 22		337-3736, 88 , 90 , 92	
320-2164-02, 92		323-1831, 82		332-3023, 58		338-3335-01, 16	
320-2164-03, 92		323-1832, 82		332-3024-14, 58		338-3335-09, 16	
320-2182, 90		323-1833, 82		332-3039, 88 , 90 , 92		338-3800, 82	
320-2183, 90		323-1834, 82		332-3125-02, 72 , 80		338-3805, 78	
320-2196-01, 90 , 92		323-1835-01, 72 , 80 , 82		332-3125-04, 80		338-3806, 78	
320-2196-02, 90 , 92		323-1835-02, 82		332-3126-02, 80		338-3808, 80	
323-1410-01, 76		323-1836, 80		332-3134, 75		338-3827, 72	
323-1411-01, 76		323-1837, 72 , 80 , 82		332-3178-01, 86		338-3828, 72	
323-1445, 16 , 20		323-1838, 82		332-3196, 65		338-3829, 74	
323-1491, 16 , 20 , 24 , 26 , 28 , 56 , 72 , 80 , 82		323-1841, 80 , 82		332-3440, 16 , 20		338-3831, 16	
323-1492, 16 , 20 , 80 , 82		323-1843, 72 , 80 , 82		332-3491-01, 72 , 82		338-3832, 24 , 26 , 28 , 56	
323-1493, 80 , 82		323-1844, 72 , 80 , 82		332-3629, 62 , 64 , 70		338-3834, 78	
323-1494, 16 , 20		323-1845, 80		332-3637, 80		338-3873, 78	
323-1500, 16 , 20 , 82		323-1846-01, 72		332-3949, 92		338-3874, 78	
323-1501, 72 , 80		323-1846-02, 72		333-0438-05, 58		338-3895, 82	
323-1502, 16 , 20		323-1846-03, 72		333-0438-06, 58		338-3933, 22	
323-1503, 80 , 82		323-1846-04, 72		333-0634-01, 14		338-4258, 72	
323-1504, 16 , 20 , 82		323-1847-01, 80 , 82		333-0634-02, 14		338-4306, 82	
323-1505, 72 , 80		323-1848, 72		333-0677-01, 18		338-4327, 82	
323-1547, 24 , 26 , 28 , 56		323-1849, 72		333-0677-02, 18		338-4386, 83	
323-1549, 24 , 26 , 28 , 56		323-1850, 72		337-0090-01, 8		338-4408, 83	
323-1582, 80		323-2050, 82		337-3465, 77		338-4694, 43	
323-1583, 80		323-2051, 82		337-3466-01, 62 , 64		338-4986, 20	
323-1591, 82		323-2052, 82		337-3466-02, 70		338-4995-03, 20	
323-1605-01, 80		327-0923, 14 , 62		337-3618, 92		338-4995-05, 20	
323-1605-03, 72 , 80		330-0141-01, 58		337-3619-01, 92		340-0475-14, 72	
		330-0142, 58		337-3619-02, 92		357-0030, 16 , 20 , 80	
		331-0042, 16 , 20		337-3620-01, 92		357-0114, 74	

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
363-0183, 70		502-1259, 14		503-1872-14, 10		505-0100, 14	
363-0187, 70		502-1260, 14		503-2102, 12		505-0102, 8 , 26 , 28 , 36	
363-0188, 70		502-1261, 14		503-2129-01, 34		505-0103, 22	
363-0189, 70		502-1315, 14		503-2129-02, 34		505-0114, 22	
370-4081, 24 , 26 , 28		502-1318, 18 , 22 , 24 , 26 , 28 , 30 , 46 , 50 , 52		503-2129-03, 30		505-0127, 14	
402-0354, 83		502-1321, 14		503-2129-04, 24 , 26 , 28		505-0153, 22 , 26 , 28	
402-0527, 62 , 64		502-1325, 14		503-2129-05, 24 , 26 , 28 , 30		505-0249, 14	
402-0748, 70		502-1326, 24 , 26 , 28		503-2129-06, 22		505-0324, 8 , 24 , 26 , 28 , 36	
402-0749, 70		502-1461, 10		503-2157-02, 14 , 18		505-0394, 34	
402-0751, 70		502-1462, 10		503-2271, 40 , 46		505-0462, 36	
403-4091, 62		503-0249, 8		503-2280, 46		505-0653, 14	
403-4303-01, 57		503-0685, 22		503-2380, 37		505-1429, 22 , 36	
403-4303-02, 57		503-0970, 10		503-2448, 38 , 39		505-1435, 34	
403-4332, 57		503-0970-01, 12		503-2449, 41		505-1436, 34	
403-4351-02, 57		503-1133, 37 , 40 , 41		503-2450, 37 , 39 , 41		505-1441, 22	
403-4357-01, 64		503-1136, 30		503-2451, 37 , 40 , 41		505-1442, 22	
403-4473-02, 22		503-1137, 8		503-2452, 37 , 41		505-1508, 8	
403-4479-02, 22		503-1418, 22 , 34		503-2453, 37 , 41		505-1561, 36	
405-7177, 38 , 39 , 41		503-1620, 22		503-2454, 46 , 50 , 52		505-1576-02, 18	
405-7709-02, 59 , 88 , 90 , 92		503-1705, 10 , 12		503-2641, 46		505-2112, 18	
406-0916, 72		503-1726, 22 , 24 , 26 , 28 , 30 , 36		503-2661, 46		505-2113, 18	
406-0917, 72		503-1727, 30		503-2691, 46		505-2159, 38 , 39 , 41	
416-0446, 8		503-1728, 22 , 24 , 26 , 28 , 30		503-2692, 46		505-2160, 50 , 52	
416-0639, 8		503-1729, 22		503-3062-01, 14 , 18 , 30		508-0228, 58	
416-0680, 8		503-1745, 34		504-0028, 22		508-1088-S0, 64	
416-1019, 8		503-1863, 34		504-0171, 8 , 24 , 26 , 28 , 36		508-1090, 62 , 77	
416-1084-01, 8		503-1870-11, 12		504-0175, 22		508-1109, 88	
416-1096, 8		503-1870-13, 12		504-0213, 18		509-0378, 18	
501-0678-01, 34		503-1870-14, 12		504-0214, 18		509-0379, 18	
501-0678-03, 55		503-1872-01, 37 , 41		504-0215, 18		509-0389, 38 , 39 , 41	
501-0697-02, 8		503-1872-02, 22 , 34 , 37 , 39 , 41		504-0308, 38 , 39 , 41 , 50		509-0408-04, 18	
501-0697-04, 8		503-1872-04, 37 , 40 , 41		505-0003, 34 , 55		510-0194, 34	
501-0697-05, 8		503-1872-05, 22 , 24 , 26 , 28 , 30 , 50 , 52		505-0011, 22 , 34		511-0161-17, 30	
501-0708, 8		503-1872-07, 37 , 41 , 50 , 52		505-0019, 22		511-0161-20, 50	
501-0744-05, 18		503-1872-09, 22 , 24 , 26 , 28 , 30 , 36		505-0024, 55		511-0161-22, 52	
501-0814, 52		503-1872-10, 10 , 50 , 52		505-0042, 14		512-0203, 34	
502-0656, 34 , 55		503-1872-11, 10		505-0044, 22		515-0220, 36	
502-0827, 14 , 18		503-1872-12, 10		505-0051, 24 , 26 , 28 , 34		517-0021, 58	
502-0836, 34				505-0054, 22		517-0080, 12	
502-1146, 22				505-0057, 24 , 36		517-0090, 86	
502-1162, 22				505-0060, 36		517-0138-02, 16 , 20	
502-1257, 14						518-0064, 34	

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
518-0548-08, 22		720-1146, 22 , 30		800-6317, 50 , 52		850-2004, 58 , 73	
518-0548-19, 30		800-0024, 62 , 64		805-2022, 65		850-2005, 58	
518-0548-24, 14 , 18		800-0028, 88 , 90 , 92		812-0070, 75		850-2008, 14 , 18	
518-0548-25, 34		800-0030, 88 , 90 , 92		812-0082, 83		850-2010, 59 , 75 , 77	
518-0561, 22		800-0039, 86		812-0094, 83		850-2012, 8 , 62 , 65 , 88 , 90 , 92	
518-0601, 7		800-0048, 88 , 90 , 92		813-0098, 86		850-2016, 22 , 34	
518-0633, 34		800-0049, 88 , 90		815-0203, 20		850-2020, 12 , 22 , 30 , 34 , 57	
525-0304, 7		800-0050, 88 , 90 , 92		815-0261, 88 , 90 , 92		850-2024, 57	
525-0305, 7		800-0052, 92		815-0446, 20		851-0022, 92	
525-0306, 7		800-0053, 88 , 90		815-0447, 16 , 20		851-0048-01, 88 , 90 , 92	
526-0002, 75		800-0054, 92		815-0539, 14 , 18		851-0048-02, 88 , 90 , 92	
526-0003, 83		800-0090, 92		815-0828-04, 70		851-0048-03, 92	
526-0008, 86		800-0093, 92		815-0947, 72		853-0005, 83	
526-0017, 14 , 18		800-0094, 36 , 92		815-0948, 72		856-0003, 20	
526-0022, 86		800-0135, 22		815-0949, 72		856-0010, 59 , 62 , 64 , 70	
526-0026, 22		800-0160, 22		821-0010, 83		856-0013, 8	
526-0027, 22		800-2008, 58		821-0017, 83		860-0008, 83	
526-0038, 50 , 52		800-2058, 37 , 38 , 39 , 40 , 41		821-5002-04, 14 , 18		860-2005, 58 , 73	
526-0049, 20		800-2063, 70		821-6001-02, 70		860-2006, 58	
526-0077, 88 , 90 , 92		800-2069, 37 , 40 , 41		821-6001-03, 70		860-2010, 62 , 88 , 90 , 92	
526-0172, 62		800-2080, 75		821-6002-02, 70		860-2012, 34	
526-0219, 36		800-2088, 59 , 77		821-6002-03, 59		860-2013, 22 , 30 , 34	
526-0238-01, 30		800-2111, 8		821-6002-04, 50 , 52 , 62 , 88 , 90 , 92		860-2023-01, 22 , 57	
526-0259-02, 22		800-2114, 88 , 90 , 92		821-6003-01, 26 , 28 , 59 , 88		860-2024-01, 57	
526-0399-58, 59 , 88 , 90 , 92		800-2121, 62		821-6003-02, 12 , 14 , 18 , 22 , 24 , 26 , 30 , 36 , 62 , 64 , 70 , 90 , 92		860-2033, 50 , 52	
526-0399-62, 24 , 26 , 28 , 30 , 36		800-2174, 34		821-6003-03, 22 , 24 , 26 , 28 , 30 , 36 , 50 , 52 , 55		860-2034, 50 , 52	
526-0399-64, 28 , 62 , 64		800-2177, 34		821-6004-01, 62 , 70		860-2035, 43 , 50 , 52	
526-0399-75, 28		800-2201, 12		822-3047, 58		862-0003, 88 , 90 , 92	
526-0399-76, 22 , 57		800-2206, 34 , 57		822-3075, 58		862-0005, 92	
526-0399-78, 57		800-2208, 22 , 57		823-0002-04, 70		862-0007, 22	
526-0416, 65		800-2543-08, 65		850-0025, 83		862-0008, 22	
526-0460-02, 57		800-3017-37, 36		850-0030, 86		862-0015, 86 , 88 , 90 , 92	
526-2100, 14 , 18		800-3017-38, 30 , 36		850-0045, 86		862-0026-56, 24 , 26 , 28	
526-2120, 59 , 77		800-3017-41, 24 , 26 , 28		850-0050, 88 , 90 , 92		862-0026-57, 62 , 64	
526-2140, 8 , 88 , 90 , 92		800-3017-54, 28		850-0060, 92		862-0026-58, 22	
526-2183, 34		800-3017-56, 64		850-0079, 22		870-0131, 14 , 18 , 20	
526-2203, 30 , 34		800-3017-58, 62		850-0114-55, 24 , 26 , 28		870-0212, 83	
526-2304, 43 , 50 , 52		800-3047-02, 57		850-0114-56, 62 , 64		870-0221, 83	
541-0809, 72		800-3047-03, 57		850-2003, 58		870-0257, 83	
541-1684, 43		800-3048-01, 57				870-0506, 50 , 52	
718-1039, 14 , 18		800-3048-02, 57				870-0550-09, 14 , 18 , 64	
		800-6284-01, 28					

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
870-2055,	62 , 70	S00060200,	34				
870-2065-03,	12 , 14 , 22 ,	SP1821220803,	43				
24 , 26 , 28 ,	30	SP400980330P,	50				
870-2203,	62 , 70	SP42268,	50				
870-2208,	70	SP42277,	50				
871-0010,	20	SP42278,	50				
898-1254-25,	58	SP80912,	52				
898-1329,	84						
A030C716,	46						
A030S239,	46 , 50 , 52						
A030S245,	43 , 50 , 52						
A030S247,	47 , 50 , 52						
A030S250,	47 , 50 , 52						
A030S254,	47 , 52						
A030S255,	47 , 52						
A030S257,	47 , 52						
A030S258,	47 , 50 , 52						
A030S260,	47 , 52						
A030S262,	46 , 50 , 52						
A030S266,	46 , 50 , 52						
A030S268,	46 , 50 , 52						
A030S269,	46 , 50 , 52						
A030S270,	50						
A030S271,	50						
A030S273,	50						
A030S281,	50						
A030S282,	50						
A030S286,	52						
A030S307,	52						
A030S308,	52						
A030S309,	52						
A030S310,	52						
A030S311,	52						
A030S314,	52						
A030S315,	52						
A030S316,	52						
A030S317,	52						
A030S318,	52						
A030S319,	52						
A030S775,	52						
A030S777,	52						
A030S778,	50						
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