RUTHZIL TRATOR COMERCIAL DE PEÇAS LTDA 11 97083-6812 ROLANDO CITRANGULO

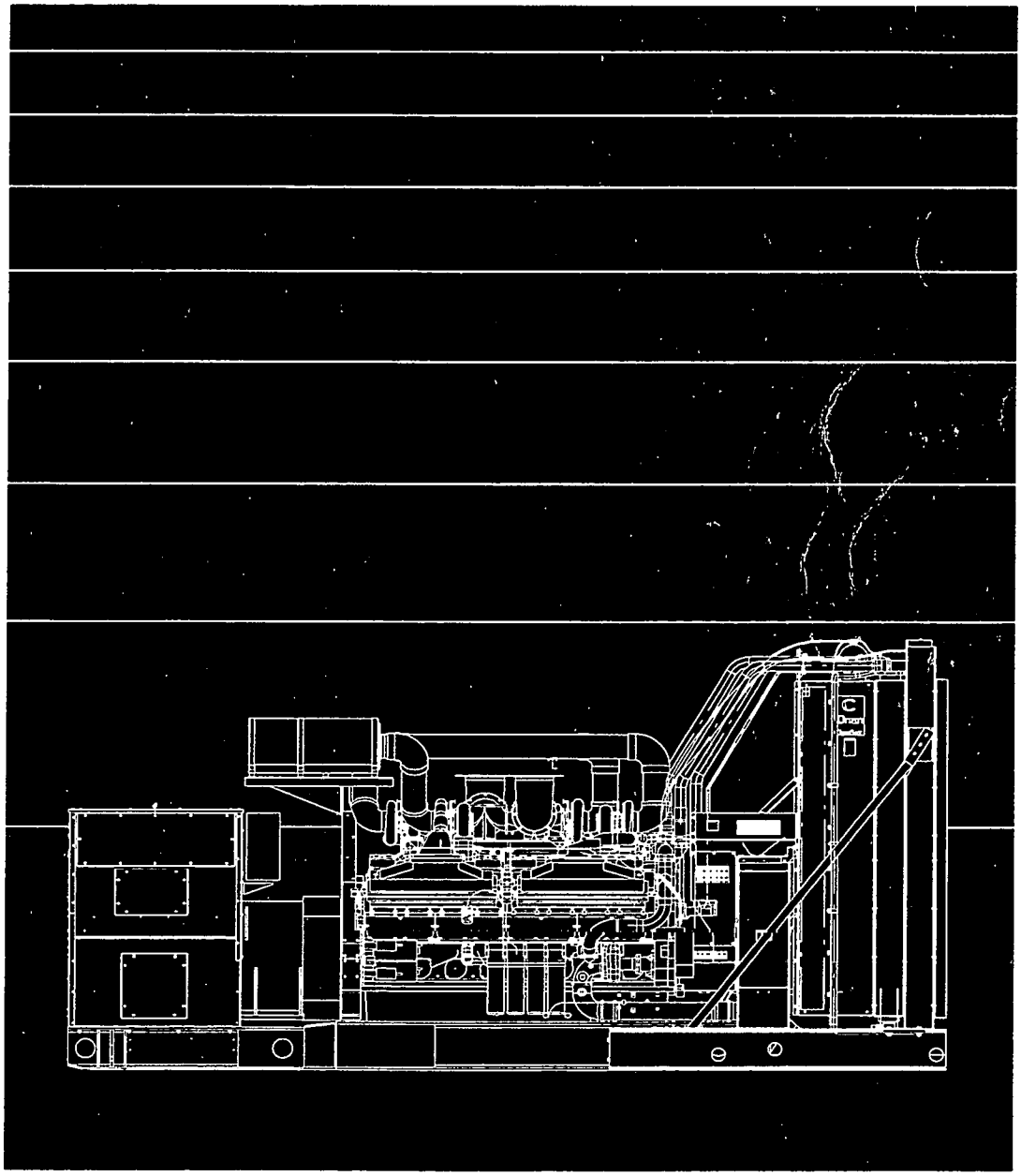
AGOSTO 1999

Onan

Parts Catalog

DQKB
DQKC

Generator Set



Printed in U.S.A.

960–0274 (Spec A) 8–99

MODEL IDENTIFICATION

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

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

_____
MODEL AND SPEC NO.

_____
SERIAL NO.

_____
DIGITAL CONTROL SOFTWARE VERSION AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

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

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

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

Replacement Engine

Onan/Cummins Generator Model	Cummins Engine Model
DQKB, DQKC (50 Hertz)	QSK60–G3 Technical Configuration Number D593002GX03
DQKB, DQKC (60 Hertz)	OSK60–G6 Technical Configuration Number D593002GX03

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

Generator Set Data Table

Model and Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
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

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Abbreviations

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

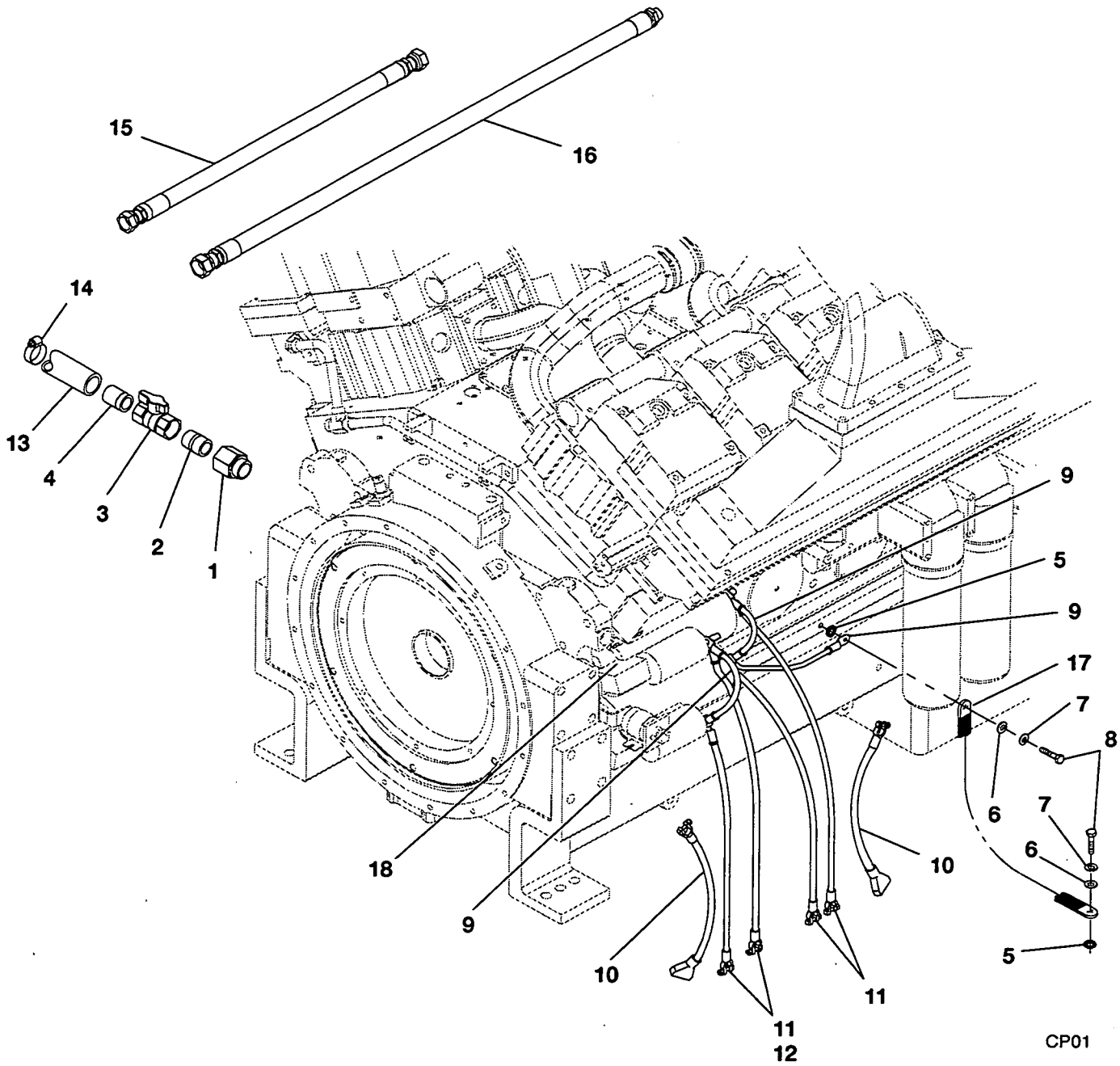
AC	Alternating Current	mm	Millimeter
Amp	Ampere	MOH	Mobile Off Highway
A/R	As Required	NFS	Not For Sale
AVR	Automatic Voltage Regulator	NPT	National Pipe Thread
AWG	American Wire Gauge	OD	Outside Diameter
DC	Direct Current	oz.	Ounce
Deg	Degree	PC	Printed Circuit
EFC	Electronic Fuel Control	Ph	Phase
EIT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

Paint and Thread Sealant

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

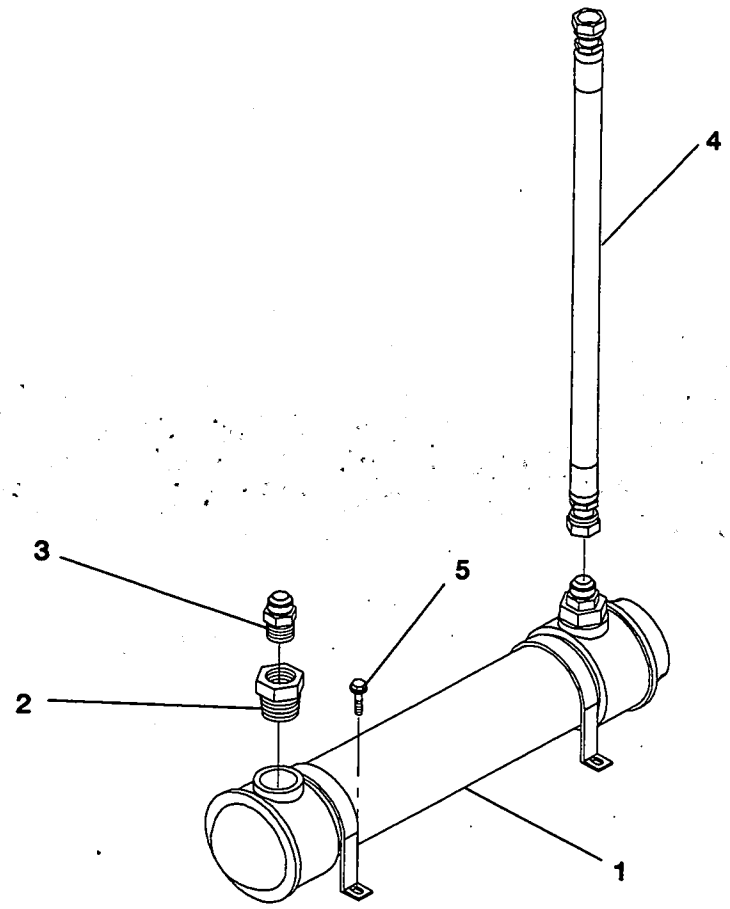
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	518–0601	–	Sealant, Thread (6 ml Tube)

Engine Accessories



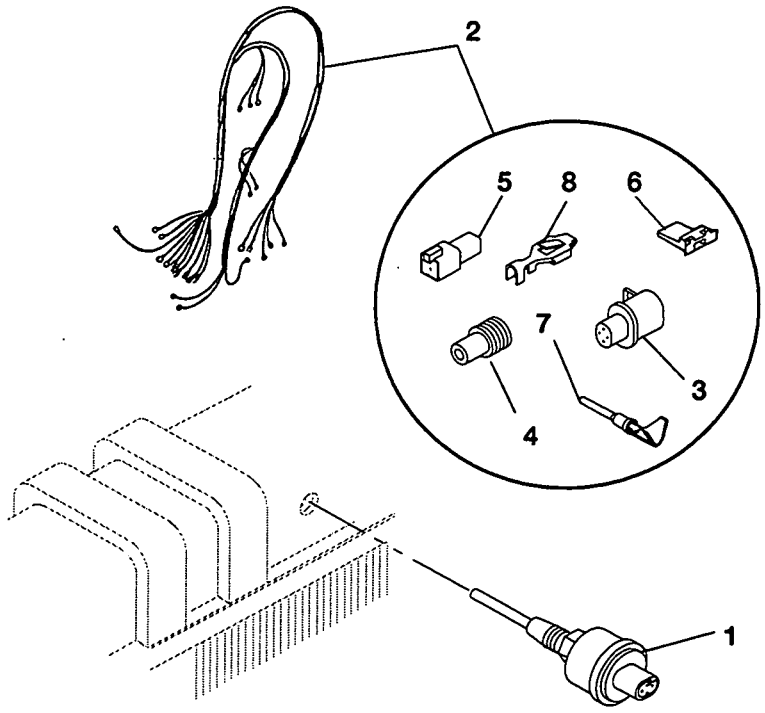
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505–1508	1	Adapter (3/4" Female to M27 Male) (Includes "O" Ring)
2	505–0102	1	Nipple, Pipe – Close (3/4")
3	504–0171	1	Valve, Shutoff (3/4")
4	505–0324	1	Nipple, Pipe – Half (3/4" x 2")
5	856–0013	2	Washer, Lock – EIT (1/2")
6	526–2140	2	Washer, Flat (M12)
7	850–2012	2	Washer, Lock – Spring (M12)
8	800–2111	2	Screw, Cap – Hex Head (M12 x 25mm)
9	416–0680	3	Cable, Battery (10")
10	416–0446	2	Cable, Battery (12–1/2")
11	416–0639	4	Cable, Battery (60")
12	416–1019	2	Boot, Battery (Red)
13	503–0249	–	Hose, Oil Drain – Bulk (3/4" ID) (Order By The Foot – 3 Feet Required)
14	503–0189	1	Clamp, Hose
15	501–0682	1	Line, Fuel – Flexible (Fuel In) (51")
16	501–0678–02	1	Line, Fuel – Flexible (Fuel Out) (96")
17	337–0090–01	1	Strap, Ground (27")
18	338–3894	1	Harness, Wiring – Diode – Starter

Fuel Cooler
Sets With Heat Exchanger Cooling
DQKC



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

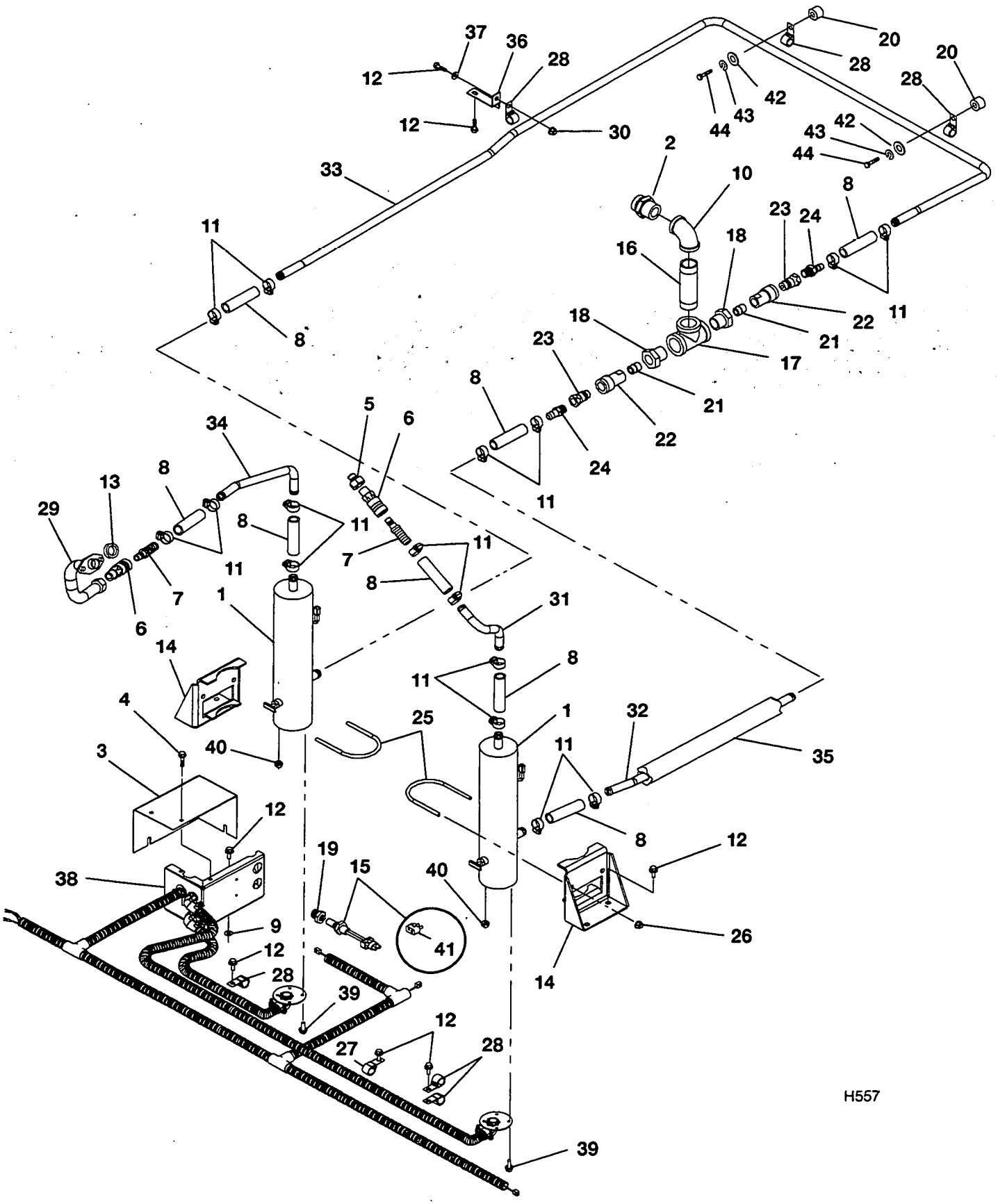
Low Coolant Level Sender
Generator Sets Without Remote Radiator



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

* – Parts Included In 338–3832 Wiring Harness

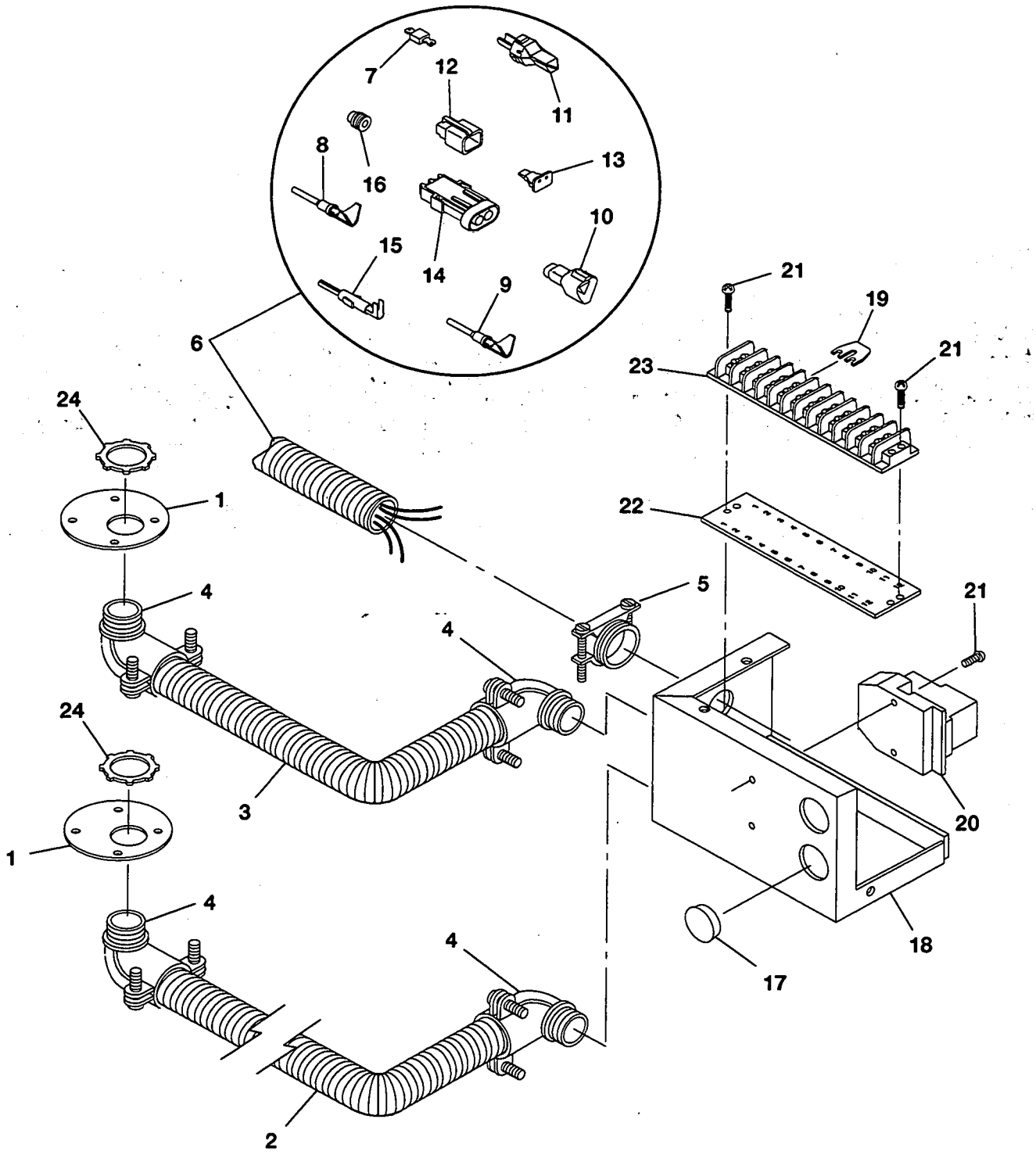
Coolant Heater



Coolant Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater, Coolant
	333–0634–01	2	4990 Watt
	333–0634–02	2	6420 Watt
2	502–1325	1	Adapter, Pipe (M42 x 1–1/4")
3	319–2815	1	Cover, Terminal Box
4	821–5002–03	4	Screw, Self–Locking – Hex Washer Head (1/4–20 x 1/2")
5	502–1315	1	Adapter, Brass (Includes "O" Ring) (1/2" Female to M18 Male)
6	502–1259	2	Coupler (1/2" Male)
7	502–1257	2	Connector, Hose – Barbed (Fits 3/4" ID Hose)
8	503–1634–01	8	Hose, Rubber (3/4" ID x 4")
9	526–0128	2	Washer, Flat (15/32" ID x 1–1/2" OD x 1/4" Thk)
10	505–0042	1	Elbow, Pipe (1–1/4")
11	503–1136	16	Clamp, Hose
12	821–6003–02	12	Screw, Self–Locking – Hex Washer Head (M8 x 20mm)
13	509–0283–01	1	Seal
14	130–4546	2	Bracket, Mounting – Coolant Heater
15	309–0649	1	Thermostat (Opens at 110 Deg F, Closes at 130 Deg F) (Includes Connector Socket) (S11)
16	505–0157	1	Nipple, Pipe (1–1/4" x 5")
17	505–0249	1	Tee, Pipe (1–1/4")
18	505–0127	2	Bushing, Pipe – Reducer (1–1/4" to 1/2")
19	502–1321	1	Adapter, Brass
20	130–3660–03	2	Spacer (1/2" ID x 1–1/4" OD x 3/4" Thk)
21	505–0100	2	Nipple, Pipe (1/2" x 1–1/8")
22	502–1260	2	Coupler, Brass (1/2")
23	502–1261	2	Nipple, Brass (1/2")
24	502–0827	2	Fitting, Hose – Barbed (1/2" ID Pipe to 3/4" ID Hose)
25	155–3021	2	Clamp, Mounting
26	870–0550–09	4	Nut, Hex – Flange (3/8–16)
27	518–0548–24	2	Clamp, Hose
28	332–2634	6	Clamp, "J"
29	130–5089–02	1	Tube, Heater
30	870–2065–03	1	Nut, Hex – Flange (M8)
31	130–5079–02	1	Tube, Heater
32	130–5078–02	1	Tube, Heater
33	130–5077–02	1	Tube, Heater
34	130–5080–02	1	Tube, Heater
35	128–0108	–	Insulation, Hose – Bulk (Order By The Foot – 12 Feet Required)
36	130–4538	1	Bracket, Support
37	526–2100	1	Washer, Flat (M8)
38	–	1	Control Assembly, Coolant Heater (See Separate Page For Components)
39	815–0539	6	Screw, Machine – Round Head – Cross Recessed W/IT (#8–32 x 5/8")
40	870–0131	6	Nut, Hex – W/ET (#10–32)
41	323–1637	1	Socket, Connector (2 Place)
42	526–2100	2	Washer, Flat (M8)
43	850–2008	2	Washer, Lock – Spring (M8)
44	800–2060	2	Screw, Cap – Hex Head (M8 x 35mm)

Coolant Heater Control

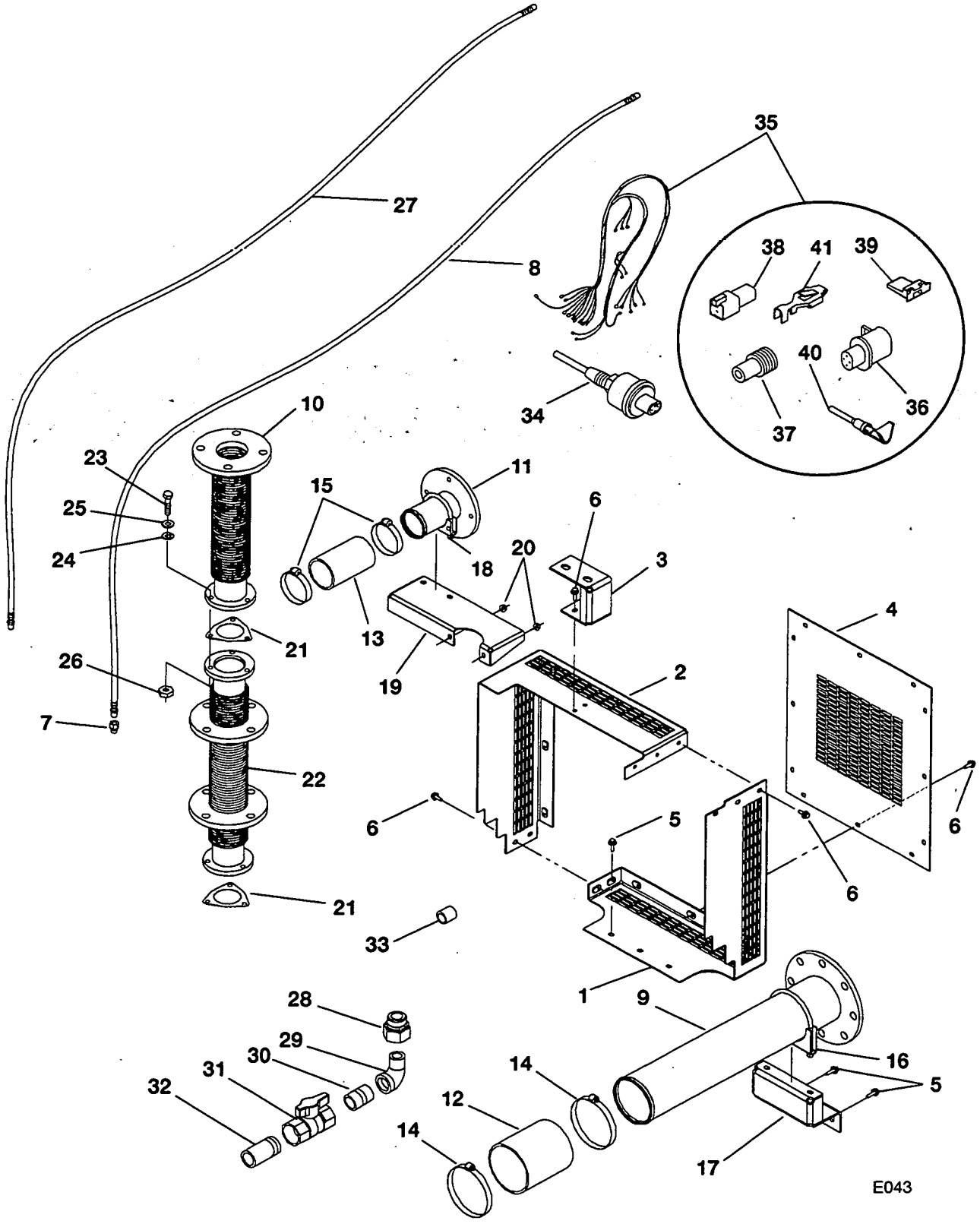


Coolant Heater Control

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

Remote Radiator

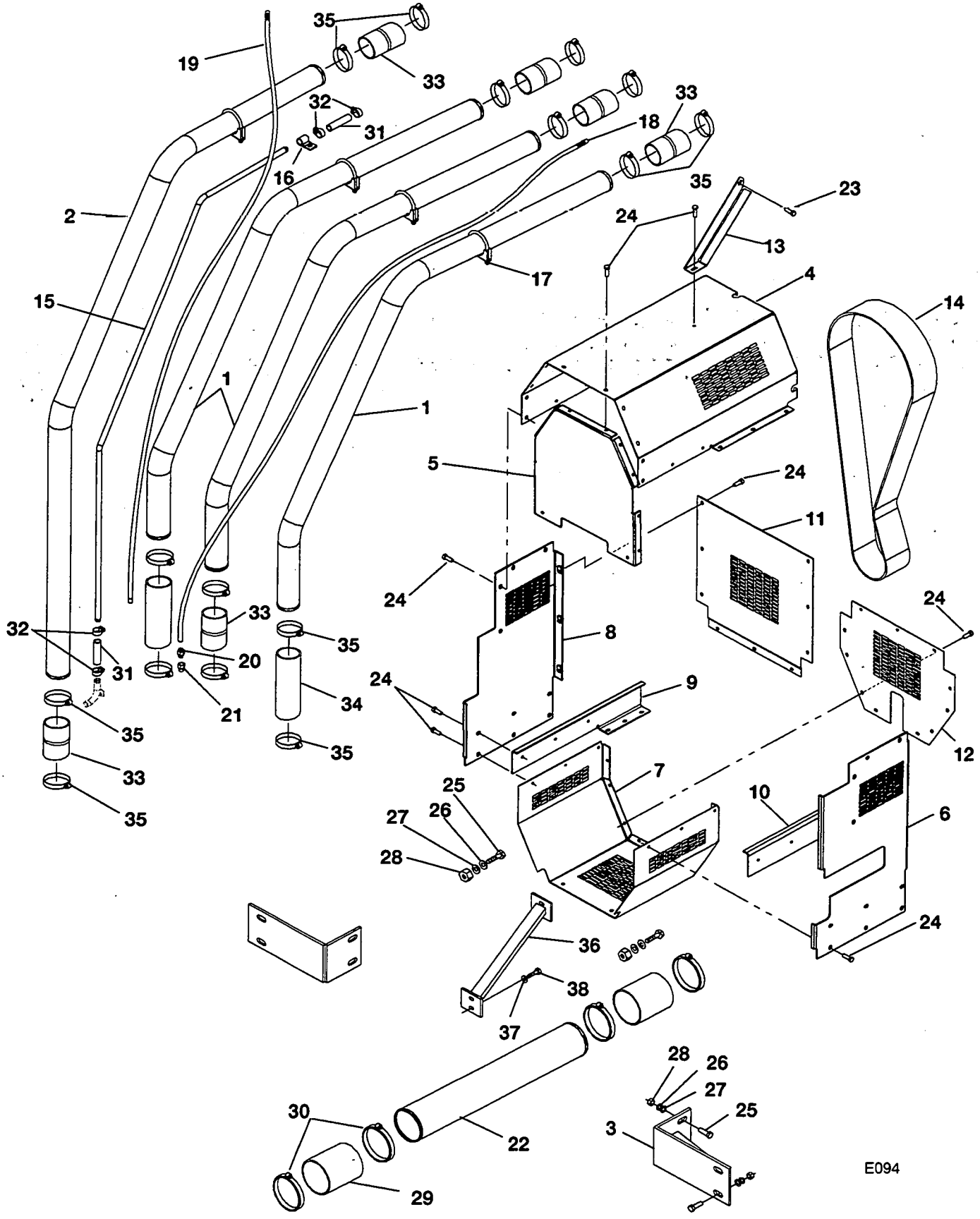


Remote Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130–5069–02	1	Guard, Damper (Left Side)
2	130–5071–02	1	Guard, Damper (Right Side)
3	130–5145–02	1	Bracket, Guard
4	130–5070–02	1	Cover, Damper
5	821–6003–03	5	Screw, Self–Locking – Hex Washer Head (M8 x 25mm)
6	821–6003–02	19	Screw, Self–Locking – Hex Washer Head (M8 x 20mm)
7	502–1318	1	Adapter, Pipe – Brass (M14 x 1/4" Pipe)
8	503–2129–04	1	Line, Vent – Flexible – With Two Male Pipe Swivel Fittings (1/4" ID x 94–1/2") Left Side
9	130–4517	1	Tube, Water Inlet (26" Long)
10	130–3687	3	Tube, Water Outlet – Flexible
11	130–5081–02	1	Tube, Water Inlet (5" Long)
12	503–1726	1	Hose (5" ID x 6")
13	503–1728	1	Hose (3" ID x 5–1/2")
14	503–1872–09	2	Clamp, Hose (5" ID)
15	503–1872–05	2	Clamp, Hose (3" ID)
16	155–3290	1	Clamp, Tube (5" ID)
17	130–5144–02	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	130–3684	6	Gasket
22	130–5084–02	3	Tube, Water Outlet – Flexible
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)
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
28	502–1326	1	Adapter, Pipe (M33 x 3/4")
29	505–0051	1	Elbow, Pipe – Street – 90 Deg (3/4")
30	505–0012	1	Nipple, Pipe (3/4" x 1–3/8")
31	504–0171	1	Valve, Shutoff (3/4")
32	505–0324	1	Nipple, Pipe – Half (3/4")
33	370–4081	8	Spacer (1/2" x 1/2") Used With Crankshaft Pulley Mounting Bolts
34	193–0486	1	Sender, Low Coolant Level
35	338–3832	1	Harness, Wiring – Low Coolant Level Sender (4 Wire, 169") (Includes Parts Marked *)
36	323–1765	1	* Connector, Housing – 4 Place (Station 20)
37	323–1708	4	* Seal, Cable (Used With Station 20)
38	323–1549	1	* Connector, Receptacle – 4 Place (Inline G)
39	323–1547	1	* Wedge, Receptacle (Used With Inline G)
40	323–1491	4	* Pin, Contact (Used With Inline G)
41	323–1709	4	* Socket, Contact (Used With Station 20)

* – Parts Included In 338–3832 Wiring Harness

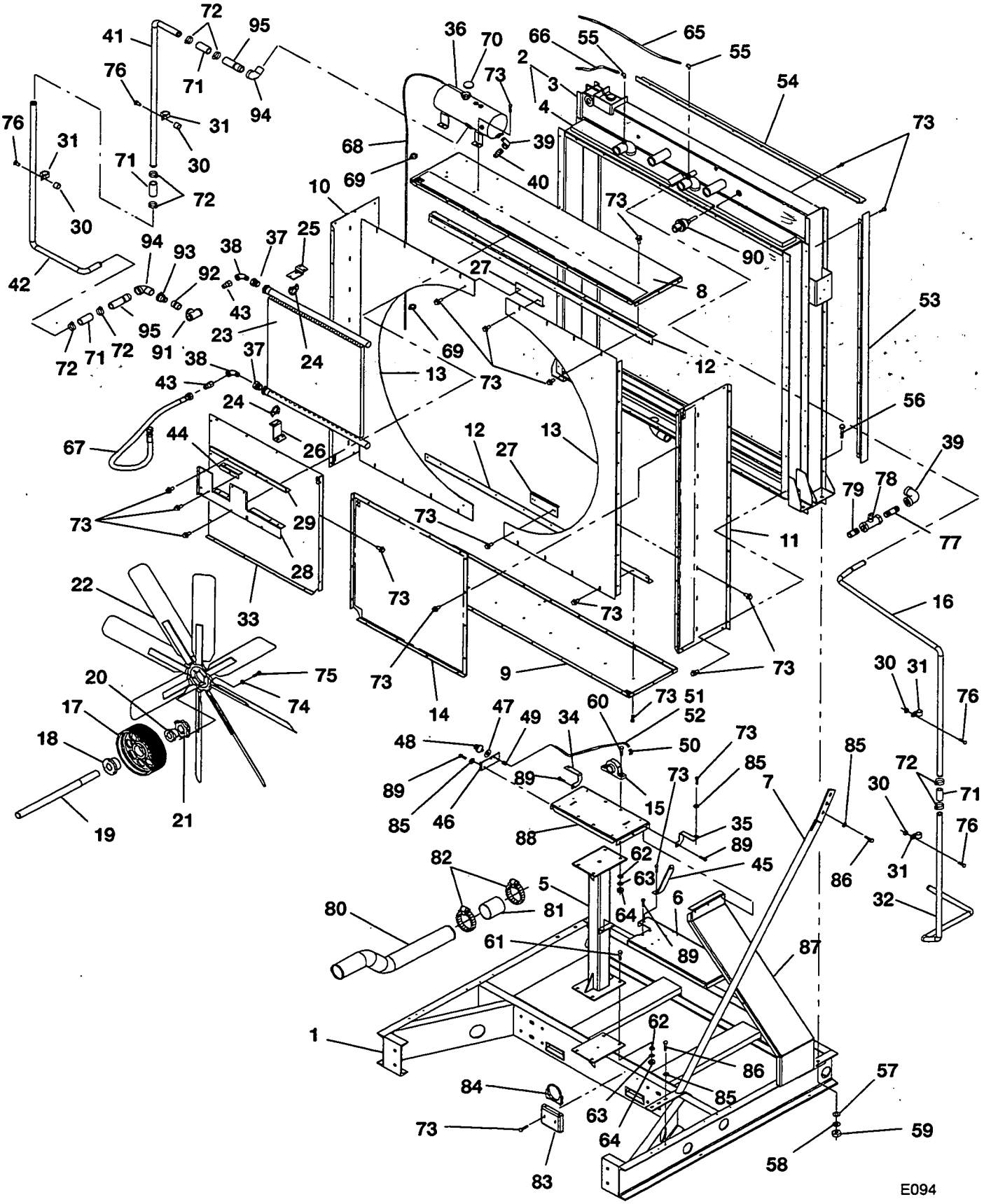
Radiator Tubes



Radiator Tubes

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130–4908–02	3	Tube, Radiator
2	130–4914–02	1	Tube, Radiator
3	130–4919–02	2	Brace, Skid
4	130–4921–02	1	Guard, Fan Drive – Upper
5	130–4934–02	1	Guard, Fan Drive – Rear
6	130–4936–02	1	Guard, Fan Drive – Left Side
7	130–4937–02	1	Guard, Fan Drive – Bottom
8	130–4935–02	1	Guard, Fan Drive – Right Side
9	130–4946–02	1	Bracket, Guard – Right Side
10	130–4947–02	1	Bracket, Guard – Left Side
11	130–4950–02	1	Guard, Fan Drive – Front – Upper
12	130–4951–02	1	Guard, Fan Drive – Front – Lower
13	130–4966–02	1	Bracket, Shroud Guard – Upper
14	511–0161–17	1	Belt, V Ribbed
15	130–5045–02	1	Tube, Fill
16	518–0548–19	1	Clamp, Retainer (3/4" ID)
17	155–3289	4	Clamp, Tube (3" ID)
18	503–2129–03	1	Line, Radiator Vent (1/4" ID x 101")
19	503–2129–05	1	Line, Radiator Vent (1/4" ID x 94–1/2")
20	309–0635–02	1	Valve, Check (1/4" Pipe to 3/8" Pipe)
21	502–1318	1	Adapter, Pipe (M14 x 1/4" Pipe)
22	130–5067–02	1	Tube, Radiator – Lower
23	821–6003–03	1	Screw, Self–Locking – Hex Washer Head (M8 x 25mm)
24	821–6003–02	56	Screw, Self–Locking – Hex Washer Head (M8 x 20mm)
25	720–1146	16	Screw, Cap – Hex Head (M20 x 60mm)
26	526–2203	16	Washer, Flat (M20)
27	850–2020	16	Washer, Lock – Spring (M20)
28	860–2013	16	Nut, Hex (M20)
29	503–1726	2	Hose, Radiator (5" ID x 6")
30	503–1872–09	4	Clamp, Hose
31	503–1634–01	2	Hose, Rubber (3/4" ID x 4")
32	503–1136	4	Clamp, Hose
33	503–1728	6	Hose, Radiator (3" ID x 5–1/2")
34	503–1727	2	Hose, Radiator (3" ID x 10")
35	503–1872–05	16	Clamp, Hose
36	130–5085–02	1	Bracket, Post
37	526–0399–62	4	Washer, Flat (M10)
38	800–3017–38	4	Screw, Cap – Hex Head (M10 x 30mm)

Radiator

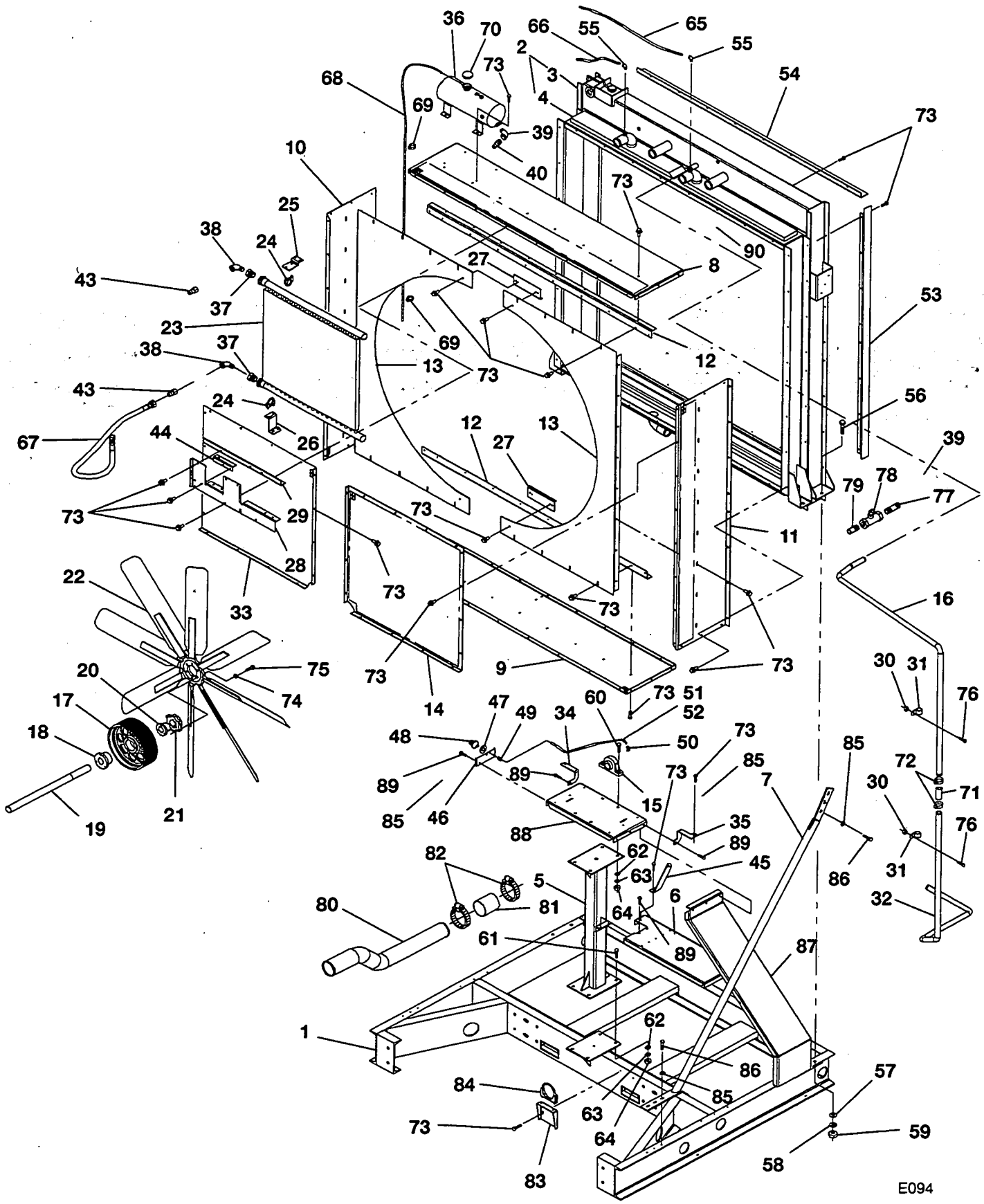


Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130–4896–02	1	Skid, Radiator
2	130–4885	1	Radiator (Includes Jacketwater, Aftercooler, Cap, Overflow Hose and Sight Gauge Sevice Parts)
	130–3588	1	Radiator Cap (Not Illustrated)
	503–1418	–	Overflow Hose – Bulk (1/4") (Order By The Foot – 11 Feet Required) (Not Illustrated)
	130–4362	1	Sight Gauge Service Parts (Includes Glass Bulb and "O" Ring) (Not Illustrated)
3	–	1	Jacketwater (See Separate Page For Components)
4	–	1	Aftercooler (See Separate Page For Components)
5	130–5037–02	1	Post, Fan Drive
6	130–5036–02	2	Tray, Fan Drive – Lower
7	130–4897–02	2	Support, Radiator
8	130–4900–02	1	Shroud, Fan – Top
9	130–4900–04	1	Shroud, Fan – Bottom
10	130–4901–04	1	Wrapper, Fan Shroud – Right Side
11	130–4901–02	1	Wrapper, Fan Shroud – Left Side
12	130–4902–02	2	Bracket, Fan Shroud
13	130–4903–02	2	Shroud, Fan Face
14	130–4904–02	2	Guard, Shroud
15	510–0194	2	Bearing, Pillow Block
16	130–4910–02	1	Tube, Fill – Upper
17	130–4888–02	1	Pulley, Fan
18	130–3652	1	Bushing, Pulley (Includes Mounting Hardware)
19	130–4920	1	Shaft, Fan Drive
20	512–0203	1	Bushing, Fan
21	130–4999	1	Hub, Fan
22	130–4940	1	Fan (8 Blade)
23	130–5064	1	Cooler, Fuel
24	155–3288	4	Clamp (2" ID)
25	130–4952–02	2	Bracket, Fuel Cooler – Upper
26	130–4953–02	2	Bracket, Fuel Cooler – Lower
27	130–4955–02	2	Support, Shroud
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)
31	518–0633	4	Clip, "J" (1–1/2" ID)
32	130–5032–02	1	Tube, Fill – Lower
33	130–5033–02	2	Guard, Shroud
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")
38	505–0003	2	Elbow, Pipe – Street (1")
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)
41	130–5119–02	1	Tube, Fill – Upper
42	130–5118–02	1	Tube, Fill – Lower
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	526–0346	2	Washer, Flat (3/8")
48	518–0064	2	Fitting, Grease
49	505–1435	2	Connector, Pipe – Female (1/8")
50	505–1436	2	Connector, Pipe – Elbow (1/8")
51	503–1745	–	Hose – Bulk – Front Grease Fitting (Order By The Foot – 2 Feet Required)
52	503–1745	–	Hose – Bulk – Rear Grease Fitting (Order By The Foot – 2 Feet Required)
53	130–4938–02	2	Adapter, Duct – Sides
54	130–4939–02	2	Adapter, Duct – Top and Bottom
55	505–0011	5	Elbow, Pipe – Street – 90 Deg (1/4")
56	800–2206	4	Screw, Cap – Hex Head (M20 x 60mm)
57	526–2203	4	Washer, Flat (M20)
58	850–2020	4	Washer, Lock – Spring (M20)
59	860–2013	4	Nut, Hex (M20)
60	800–2177	4	Screw, Cap – Hex Head (M16 x 60mm)
61	800–2174	4	Screw, Cap – Hex Head (M16 x 45mm)
62	526–2183	8	Washer, Flat (M16)
63	850–2016	8	Washer, Lock – Spring (M16)
64	860–2012	8	Nut, Hex (M16)
65	503–2129–02	1	Line, Radiator Vent (1/4" ID x 40")
66	503–2129–01	1	Line, Radiator Vent (1/4" ID x 15")
67	501–0678–01	1	Line, Fuel – Flexible (7/8" ID x 89")
68	503–1418	–	Hose, Rubber – Bulk (1/4" ID) (Order By The Foot – 11 Feet Required)
69	518–0548–25	2	Clamp, Hose (3/8" ID)
70	130–0449	1	Cap, Expansion Tank
71	503–1863	6	Hose, Radiator (1–1/2" ID x 4")
72	503–1872–02	12	Clamp, Hose

Continued...

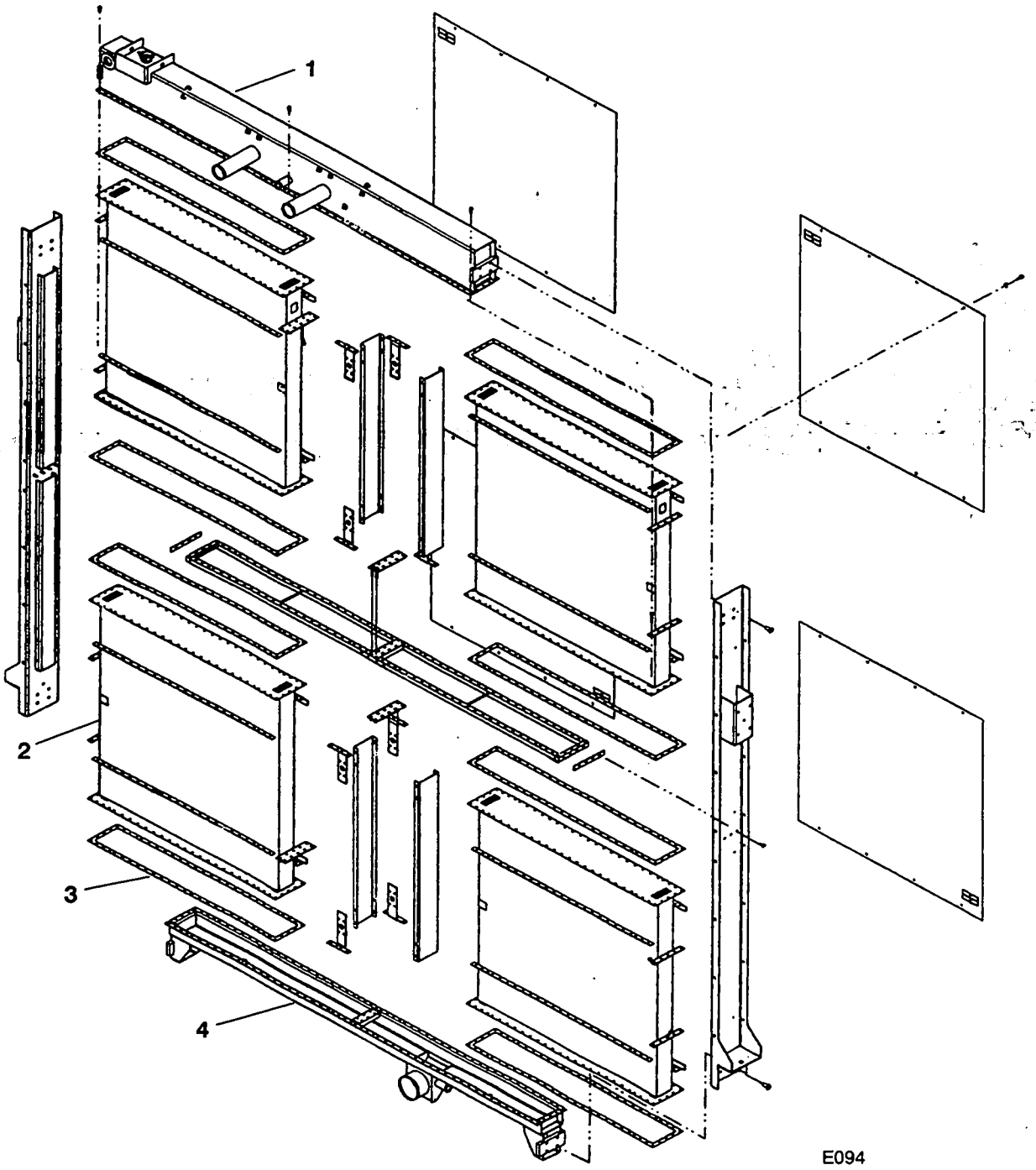
Radiator



Radiator

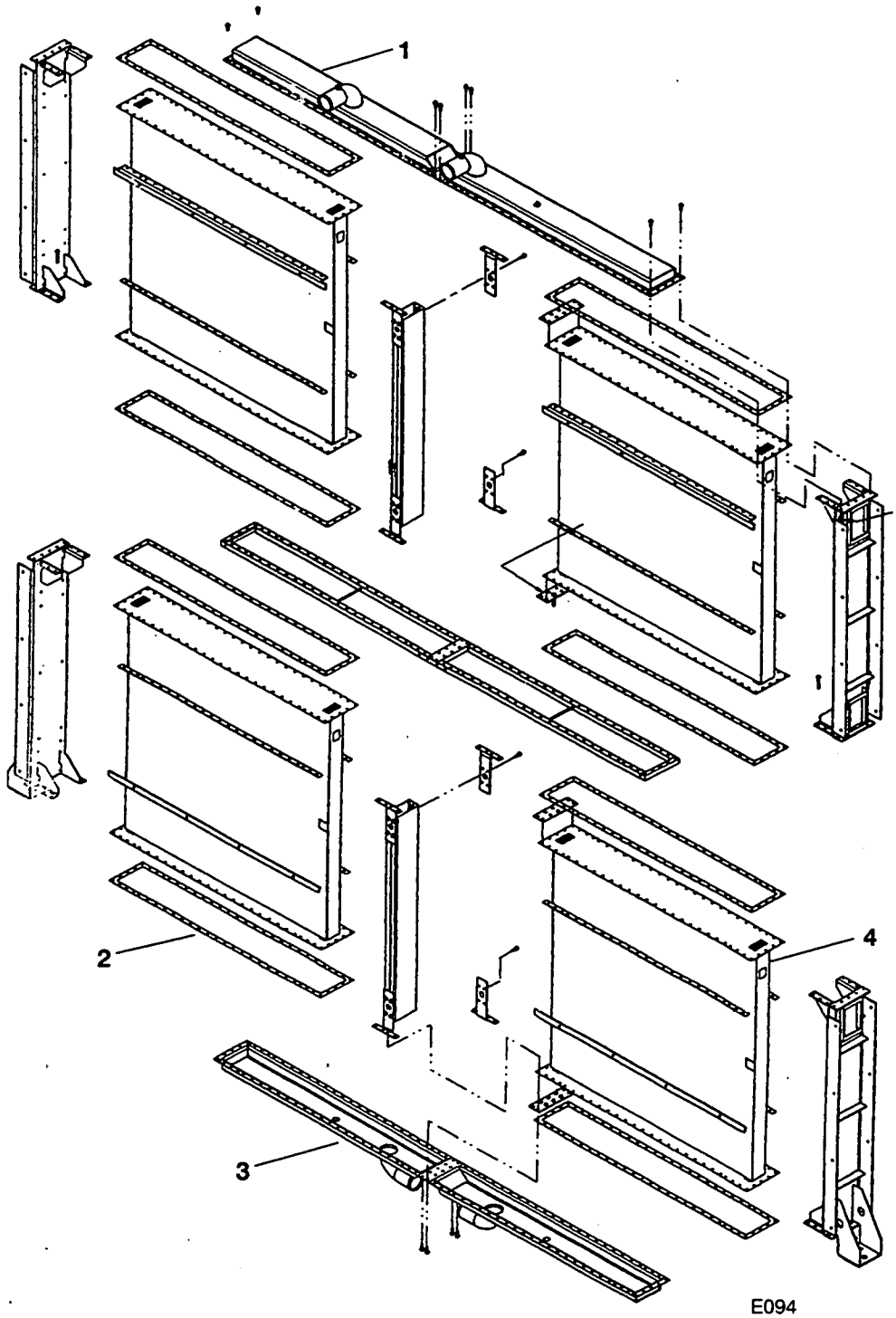
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...			
73	821–6003–02	175	Screw, Self–Locking – Hex Washer Head (M8 x 20mm)
74	526–0219	6	Washer, Flat (1/2")
75	800–0094	6	Screw, Cap – Hex Head (1/2–13 x 2")
76	821–6003–03	5	Screw, Self–Locking – Hex Washer Head (M8 x 25mm)
77	505–0012	3	Nipple, Pipe (3/4" x 1–3/8")
78	504–0171	2	Valve, Shutoff (3/4")
79	505–0324	2	Nipple, Pipe – Half (3/4")
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	130–5066–02	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)
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)
90	193–0486	1	Sender, Low Coolant Level
91	505–0060	1	Tee, Pipe (3/8")
92	505–0102	1	Nipple, Pipe – Close (3/4")
93	505–1561	1	Coupling, Pipe – Reducer (1–1/2" to 3/4")
94	505–0462	2	Elbow, Pipe – Street – 90 Deg (1–1/2")
95	505–1429	2	Nipple, Pipe – Combination (1–1/2" Pipe to 1–1/2" Hose)

Jacketwater



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

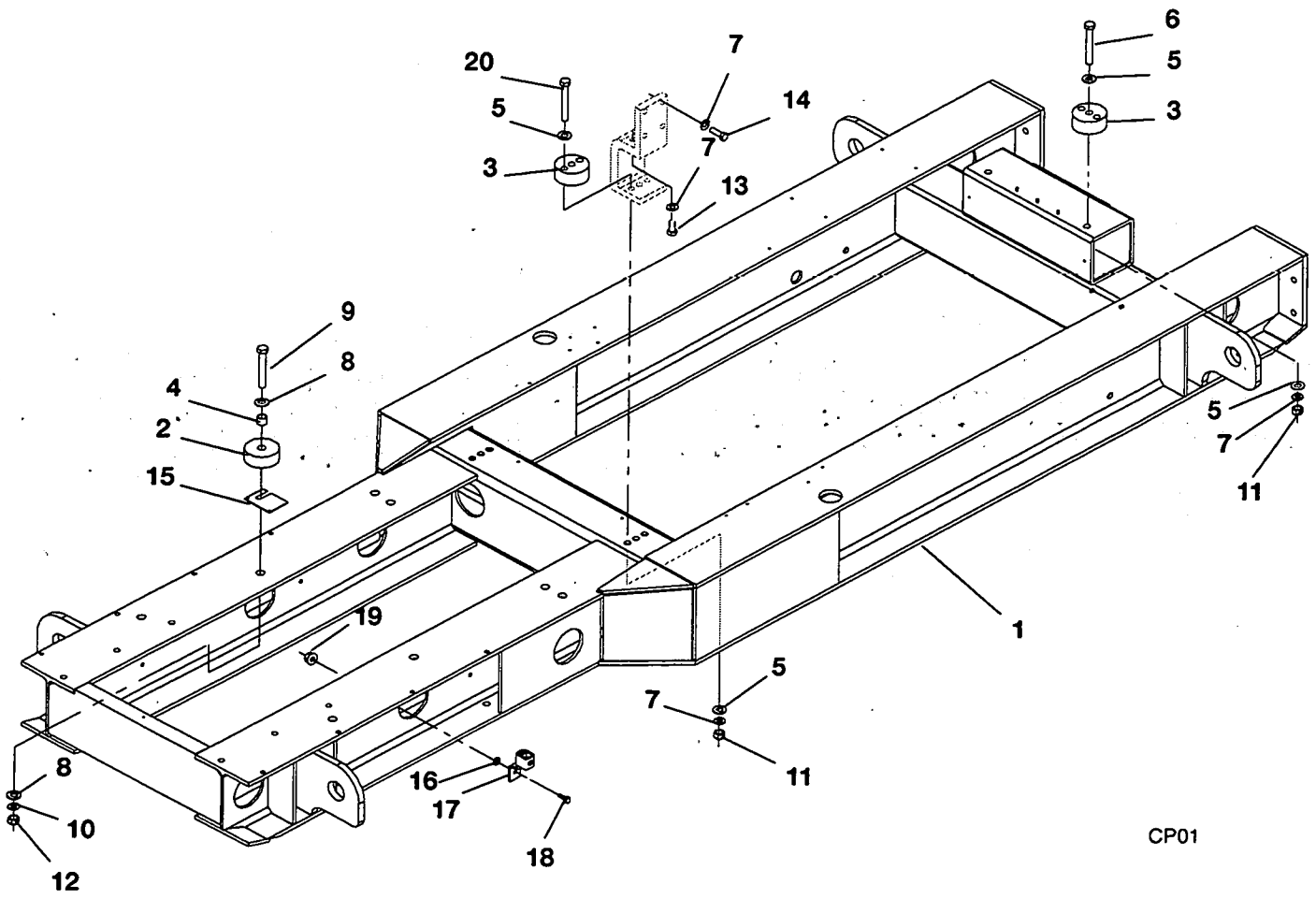
Aftercooler



E094

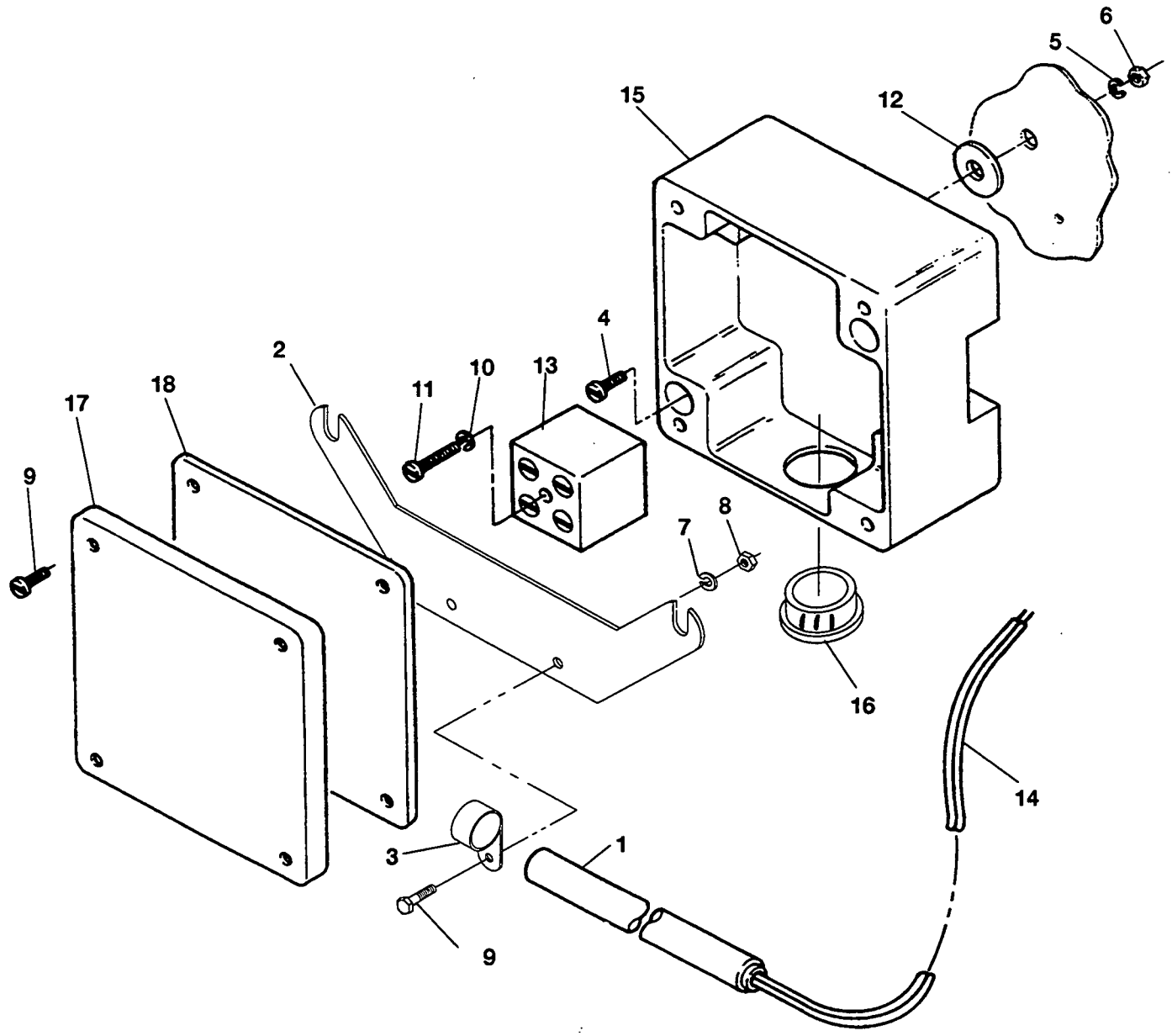
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	130–5102	1	Aftercooler – Complete (Includes Replaceable Parts Listed Below)
1	130–5104	1	Tank, Top
2	130–5099	8	Gasket
3	130–5103	1	Tank, Bottom
4	130–5105	4	Core

Skid



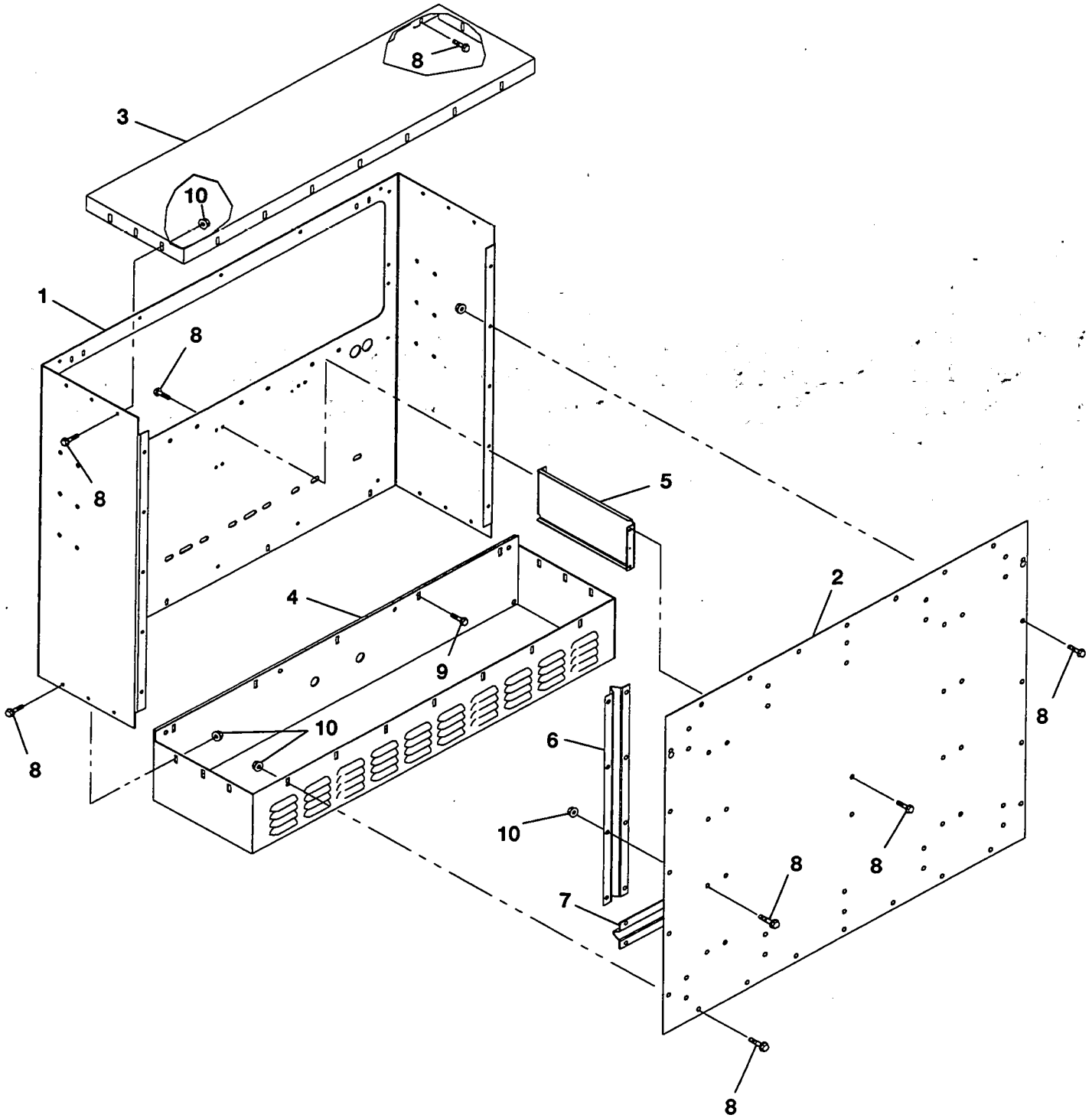
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403–4351–02	1	Skid
2	232–4061	4	Spacer, Generator Mounting (1–1/16" ID x 5" OD x 2–1/8" Thk)
3	403–4332	4	Spacer, Engine Mounting (1" ID x 5" OD x 2–9/32" Thk)
4			Bushing
	403–4303–01	4	Frame 7 Generators (1–1/16" ID x 1–5/16" OD x 1–3/16" Long)
	403–4303–02	4	Frame 8 Generators (1–1/16" ID x 1–19/32" OD x 1–3/8" Long)
5	526–0399–76	12	Washer, Flat (M20)
6	800–3047–02	2	Screw, Cap – Hex Head (M20 x 160mm)
7	850–2020	18	Washer, Lock – Spring (M20)
8	526–0399–78	8	Washer, Flat (M24)
9	800–3048–02	4	Screw, Cap – Hex Head (M24 x 160mm)
10	850–2024	4	Washer, Lock – Spring (M24)
11	860–2023–01	6	Nut, Hex (M20)
12	860–2024–01	4	Nut, Hex (M24)
13	800–2208	4	Screw, Cap – Hex Head (M20 x 70mm)
14	800–2206	8	Screw, Cap – Hex Head (M20 x 60mm)
15			Shim, Generator Mounting (Quantity Used As Required)
	232–3710–01	1	1/64" Thk
	232–3710–02	1	5/64" Thk
	232–3710–03	1	7/64" Thk
16	856–0010	1	Washer, Lock – W/EIT (3/8")
17	332–2001	1	Lug, Solderless
18	800–0051	1	Screw, Cap – Hex Head (3/8–16 x 1–1/4")
19	870–0550–09	1	Nut, Hex (3/8–16)
20	800–3047–03	4	Screw, Cap – Hex Head (M20 x 130mm)

Generator Heater



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

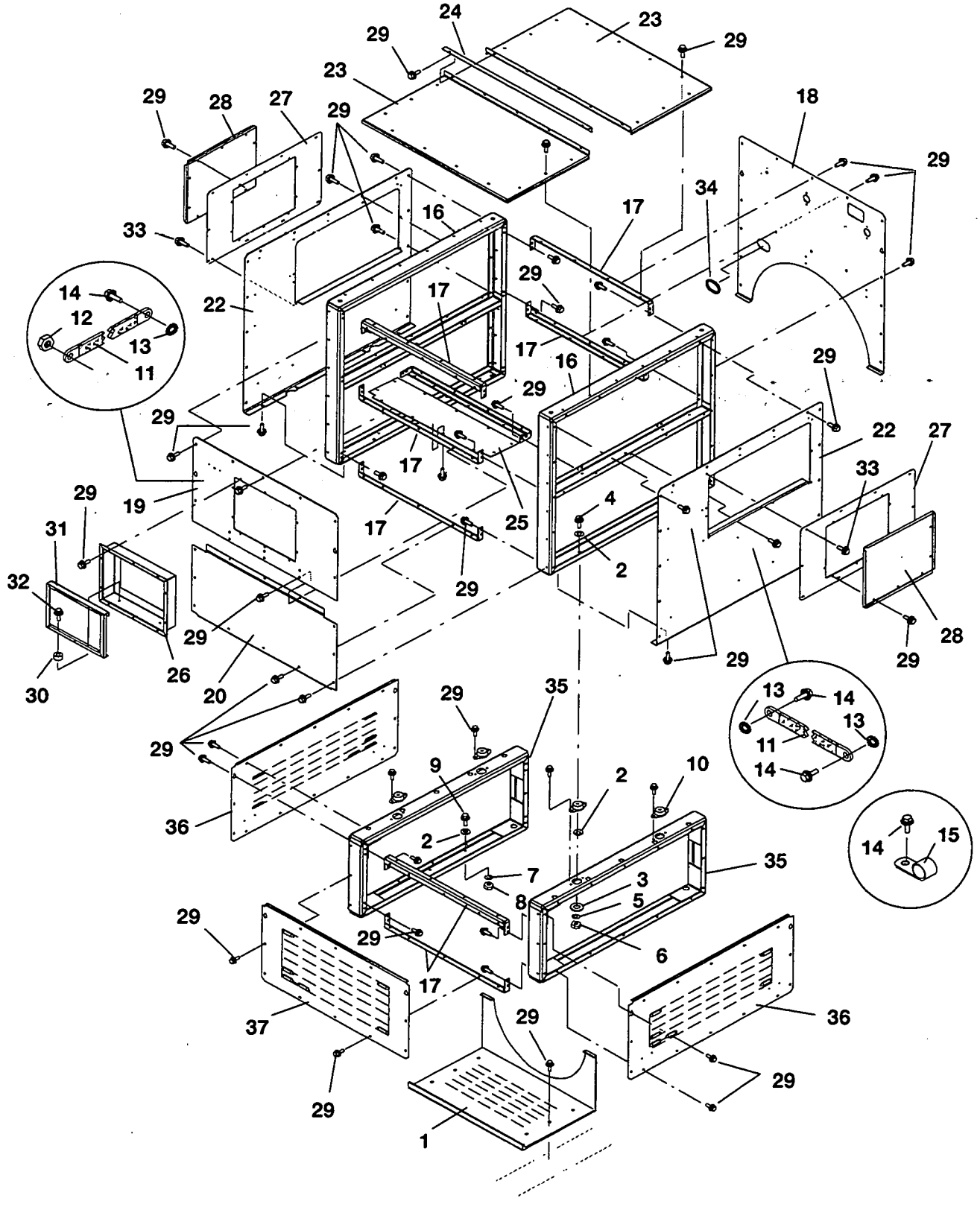
Entrance Box



Entrance Box

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

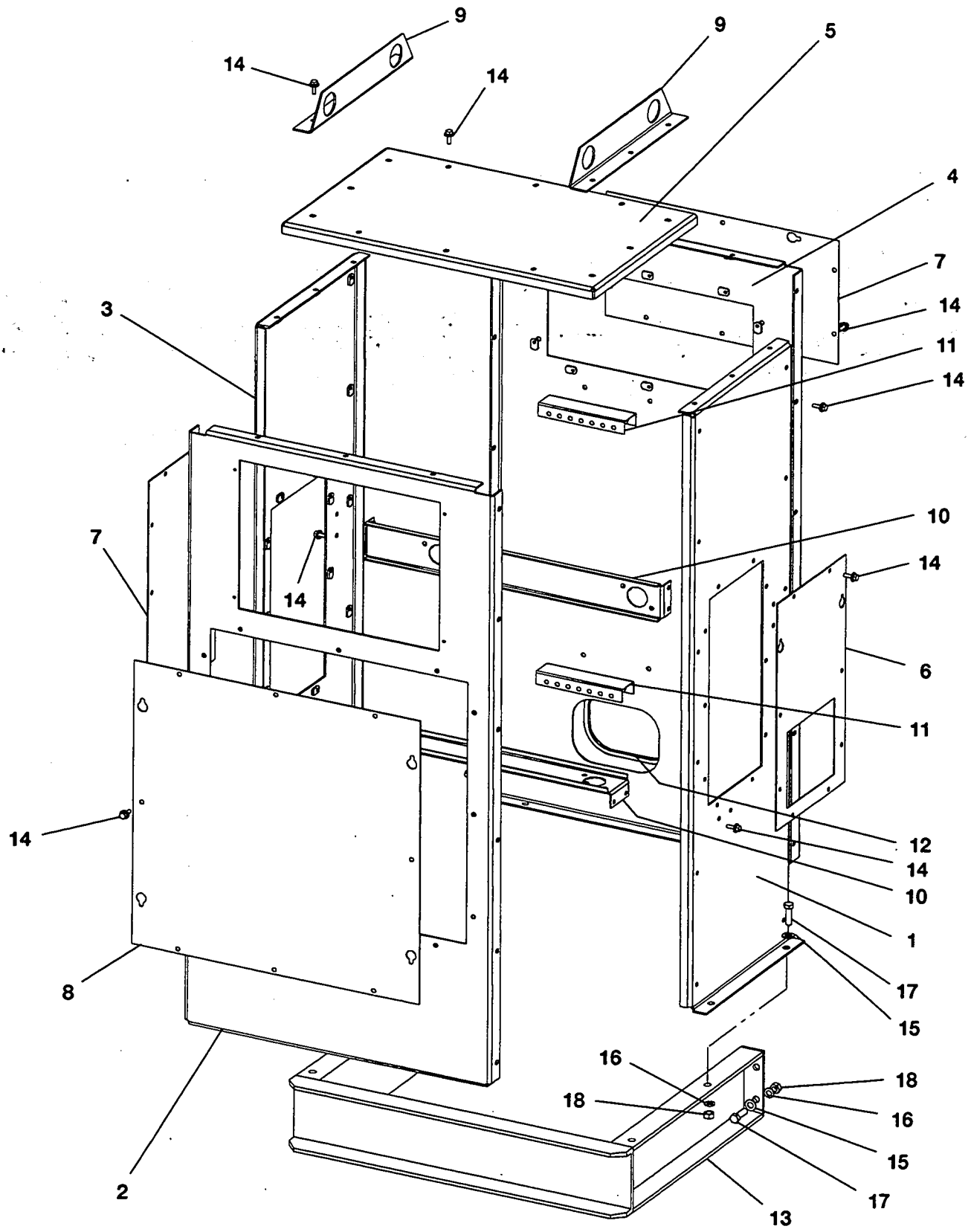
Control Housing
Frame 7 Generators



Control Housing
Frame 7 Generators

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319–4126–02	1	Panel, Bottom
2	526–0399–64	24	Washer, Flat (M12)
3	526–0172	4	Washer, Flat (1/2")
4	800–2121	4	Screw, Cap – Hex Head (M12 x 75mm)
5	850–2012	4	Washer, Lock – Spring (M12)
6	860–2010	4	Nut, Hex (M12)
7	850–0114–56	8	Washer, Lock – Spring (M12)
8	862–0026–57	8	Nut, Hex (M12)
9	800–3017–58	8	Screw, Cap – Hex Head (M12 x 50mm)
10	403–4091	4	Isolator, Vibration
11	337–3466–01	2	Strap, Ground
12	870–2203	1	Nut, Locking – Hex Flange Head (M10)
13	856–0010	4	Washer, Lock – EIT (3/8")
14	821–6004–01	7	Screw, Self–Locking – Hex Washer Head (M10 x 20mm)
15	332–2634	3	Clamp, "J"
16	319–3995–02	2	Frame, Side – Upper
17	319–3996–02	8	Separator, Frame
18	319–3997–02	1	Panel, Front
19	319–3998–02	1	Panel, Rear – Upper
20	319–4138–02	1	Panel, Rear – Center
21	319–3999–02	1	Panel, Side – Upper – Right Side
22	319–4000–02	1	Panel, Side – Upper – Left Side
23	319–4001–02	2	Panel, Top
24	319–4002–02	1	Rail, Drip
25	319–4007–02	1	Panel, Inner
26	319–3672–02	1	Panel, Control Mounting
27	319–4003–02	2	Cover, Housing – Breaker
28	319–4004–02	2	Cover, Housing – Control
29	821–6003–02	238	Screw, Self–Locking – Hex Washer Head (M8 x 20mm)
30	402–0527	4	Isolator, Vibration
31	319–3786–02	1	Bracket, Control Mounting
32	800–0310–17	8	Screw, Cap – Hex Head (5/16–18 x 1/2")
33	821–6002–04	20	Screw, Self–Locking – Hex Washer Head (M6 x 20mm)
34	508–1090	1	Grommet
35	319–3994–02	2	Frame, Side – Lower
36	319–4006–02	2	Panel, Side – Lower
37	319–4005–02	1	Panel, Rear – Lower

Control Housing
Frame 8 Generators

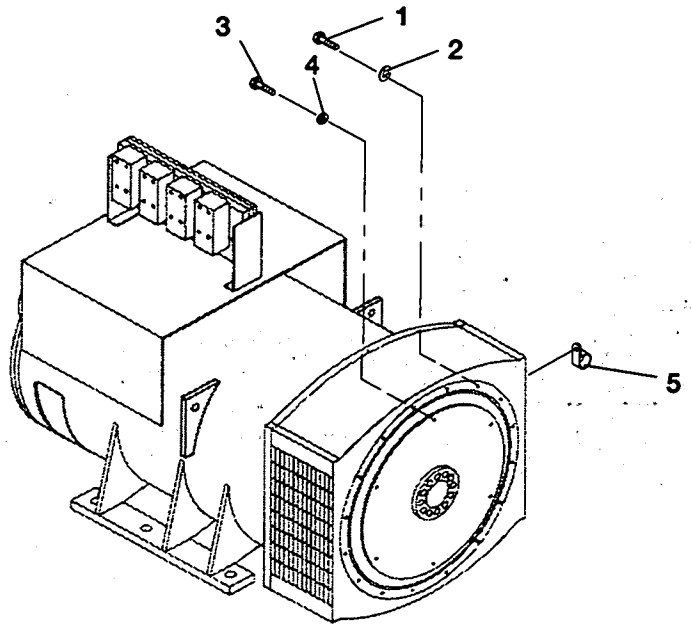


Control Housing
Frame 8 Generators

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319–3910–02	1	Panel, Control – Left Side
2	319–3912–02	1	Panel, Control – Rear
3	319–3911–02	1	Panel Control – Right Side
4	319–3913–02	1	Panel, Control – Front
5	319–3916–02	1	Roof
6	319–3914–02	1	Cover, Side – Left Side
7	319–3915–02	2	Cover – Right Side and Front
8	319–3920–02	1	Cover, Rear
9	319–3919–02	2	Support, Housing
10	319–3917–02	2	Shelf
11	319–3921–02	2	Guide, Wire
12	508–1088	1	Edging (37–3/4")
13	403–4357–02	1	* Frame, Mounting – Control
14	821–6003–02	90	Screw, Self–Locking – Hex Washer Head (M8 x 20mm)
15	526–0399–64	8	* Washer, Flat (M12)
16	850–0114–56	8	* Washer, Lock – Spring (M12)
17	800–3017–56	8	* Screw, Cap – Hex Head (M12 x 40mm)
18	862–0026–77	8	* Nut, Hex (M12)

* – Not Used On All Models

Generator Mounting



CP01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800–2543–08	16	Screw, Cap – Hex Head (M12 x 55mm) Grade 10.9
2	850–2012	16	Washer, Lock – Spring (M12)
3	805–2022	6	Bolt, Place (M16 x 35mm) Grade 10.9
4	526–0416	6	Washer, Flat (5/8")
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 Onan. Refer to the Newage nameplate and supply all available information. Contact your nearest Newage distributor for assistance in ordering component parts. For COMPLETE generator replacement use the 249–XXXX–XX Onan identification number listed below.

Onan Identification Number	Generator Model Number
249–5092–01	HC734E
249–5092–02	HC734F
249–5092–03	HC734E
249–5092–04	HC734F
249–5092–05	HC734G
249–5092–06	HC734G
249–5092–07	HC734H
249–5092–08	HC734H
249–5092–09	HC734E
249–5092–10	HC734F
249–5092–11	HC734G
249–5092–12	HC734H
249–5092–13	HC734E
249–5092–14	HC734F
249–5092–15	HC734G
249–5092–16	HC734H
249–5095–01	MV734WE
249–5095–02	MV734WF
249–5095–03	MV734WG
249–5095–04	MV734WE
249–5095–05	MV734WF
249–5095–06	MV734WG
249–5095–07	MV734WH
249–5095–08	MV734WH
249–5104–01	LVS1814C1
249–5104–02	LVS1814D1
249–5104–03	LVS1814F1
249–5104–04	LVS1814F1
Continued...	

Generator

Onan Identification Number	Generator Model Number
Continued...	
249–5104–05	LVS1814G1
249–5104–06	LVS1814H1
249–5104–07	LVS1814C1
249–5104–08	LVS1814D1
249–5104–09	LVS1814E1
249–5104–10	LVS1814F1
249–5104–11	LVS1814G1
249–5104–12	LVS1814H1
249–5104–13	MVS1814C1
249–5104–14	MVS1814D1
249–5104–15	MVS1814E1
249–5104–16	MVS1814F1
249–5104–17	MVS1814G1
249–5104–18	MVS1814H1
249–5104–19	HVS1814C1
249–5104–20	HVS1814D1
249–5104–21	HVS1814E1
249–5104–22	HVS1814F1
249–5104–23	HVS1814G1
249–5104–24	HVS1814H1
249–5104–25	LVS1814C1
249–5104–26	LVS1814D1
249–5104–27	LVS1814E1
249–5104–28	LVS1814C1
249–5104–29	LVS1814D1
249–5104–30	LVS1814E1
249–5104–31	HVS1814C1
249–5104–32	HVS1814D1
249–5104–33	HVS1814E1
Continued...	

Generator

Onan Identification Number	Generator Model Number
Continued...	
249–5104–34	HVS1814C1
249–5104–35	HVS1814D1
249–5104–36	HVS1814E1
249–5104–37	HVS1814C1
249–5104–38	HVS1814D1
249–5104–39	HVS1814E1
249–5104–40	LVS1814C1
249–5104–41	LVS1814D1
249–5104–42	LVS1814E1
249–5104–43	LVS1814C1
249–5104–44	LVS1814D1
249–5104–45	LVS1814E1
249–5104–46	HVS1814C1
249–5104–47	HVS1814D1
249–5104–48	HVS1814E1
249–5104–49	MVS1814C1
249–5104–50	MVS1814D1
249–5104–51	MVS1814E1
249–5107–01	LVS1814C1
249–5107–02	LVS1814D1
249–5107–03	LVS1814E1
249–5107–04	LVS1814F1
249–5107–05	LVS1814G1
249–5107–06	LVS1814H1
249–5107–07	LVS1814C1
249–5107–08	LVS1814D1
249–5107–09	LVS1814E1
249–5107–10	LVS1814F1
249–5107–11	LVS1814G1
Continued...	

Generator

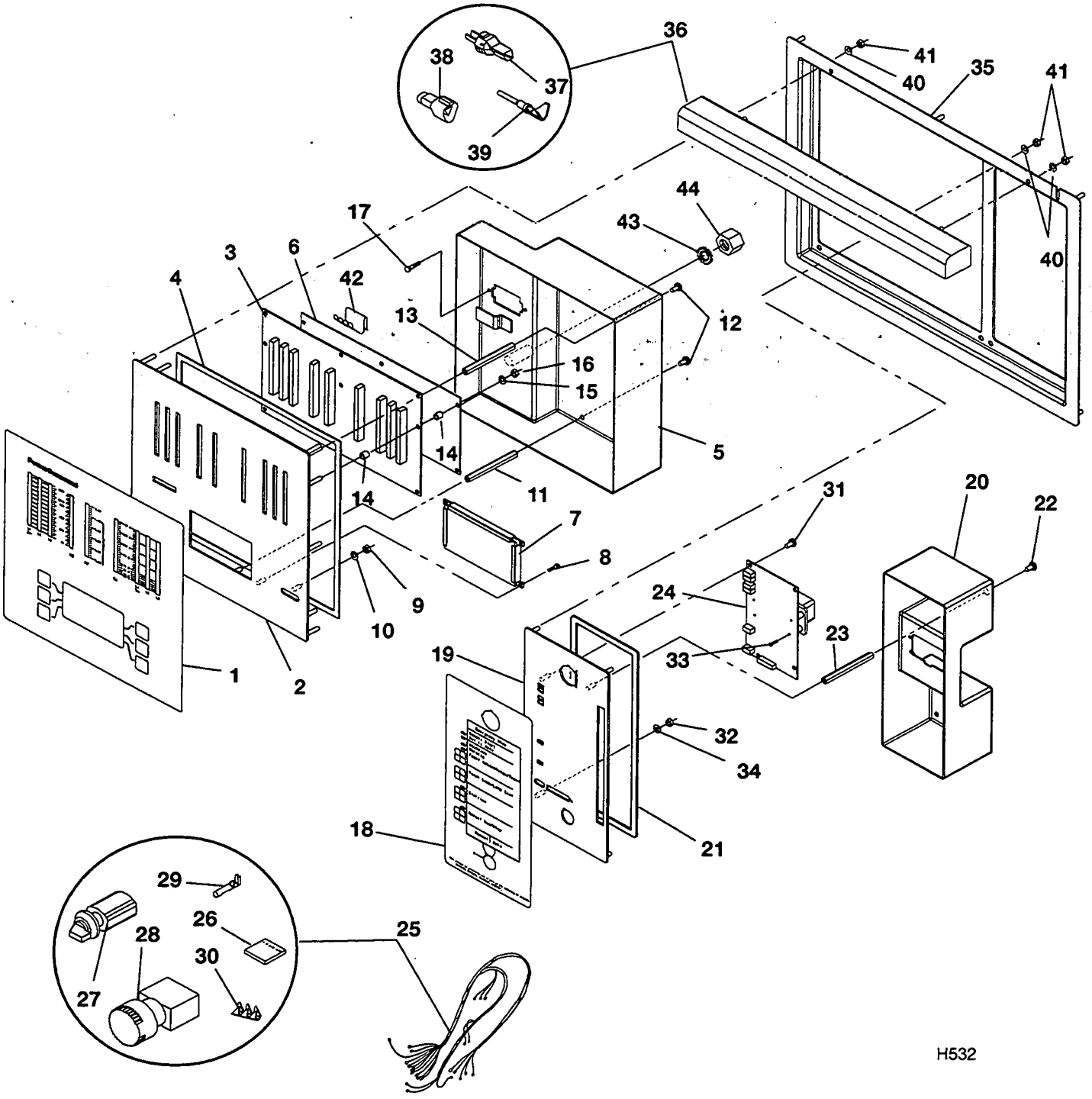
Onan Identification Number	Generator Model Number
Continued...	
249–5107–12	LVS1814H1
249–5107–13	MVS1814C1
249–5107–14	MVS1814D1
249–5107–15	MVS1814E1
249–5107–16	MVS1814F1
249–5107–17	MVS1814G1
249–5107–18	MVS1814H1
249–5107–19	HVS1814C1
249–5107–20	HVS1814D1
249–5107–21	HVS1814E1
249–5107–22	HVS1814F1
249–5107–23	HVS1814G1
249–5107–24	HVS1814H1
249–5107–25	LVS1814C1
249–5107–26	LVS1814D1
249–5107–27	LVS1814E1
249–5107–28	LVS1814C1
249–5107–29	LVS1814D1
249–5107–30	LVS1814E1
249–5107–31	HVS1814C1
249–5107–32	HVS1814D1
249–5107–33	HVS1814E1
249–5107–34	HVS1814C1
249–5107–35	HVS1814D1
249–5107–36	HVS1814E1
249–5107–37	HVS1814C1
249–5107–38	HVS1814D1
249–5107–39	HVS1814E1
249–5107–40	LVS1814C1
Continued...	

Generator

Onan Identification Number	Generator Model Number
Continued...	
249–5107–41	LVS1814D1
249–5107–42	LVS1814E1
249–5107–43	LVS1814C1
249–5107–44	LVS1814D1
249–5107–45	LVS1814E1
249–5107–46	HVS1814C1
249–5107–47	HVS1814D1
249–5107–48	HVS1814E1
249–5107–49	MVS1814C1
249–5107–50	MVS1814D1
249–5107–51	MVS1814E1

B280,312,461,462

PowerCommand Control Panel

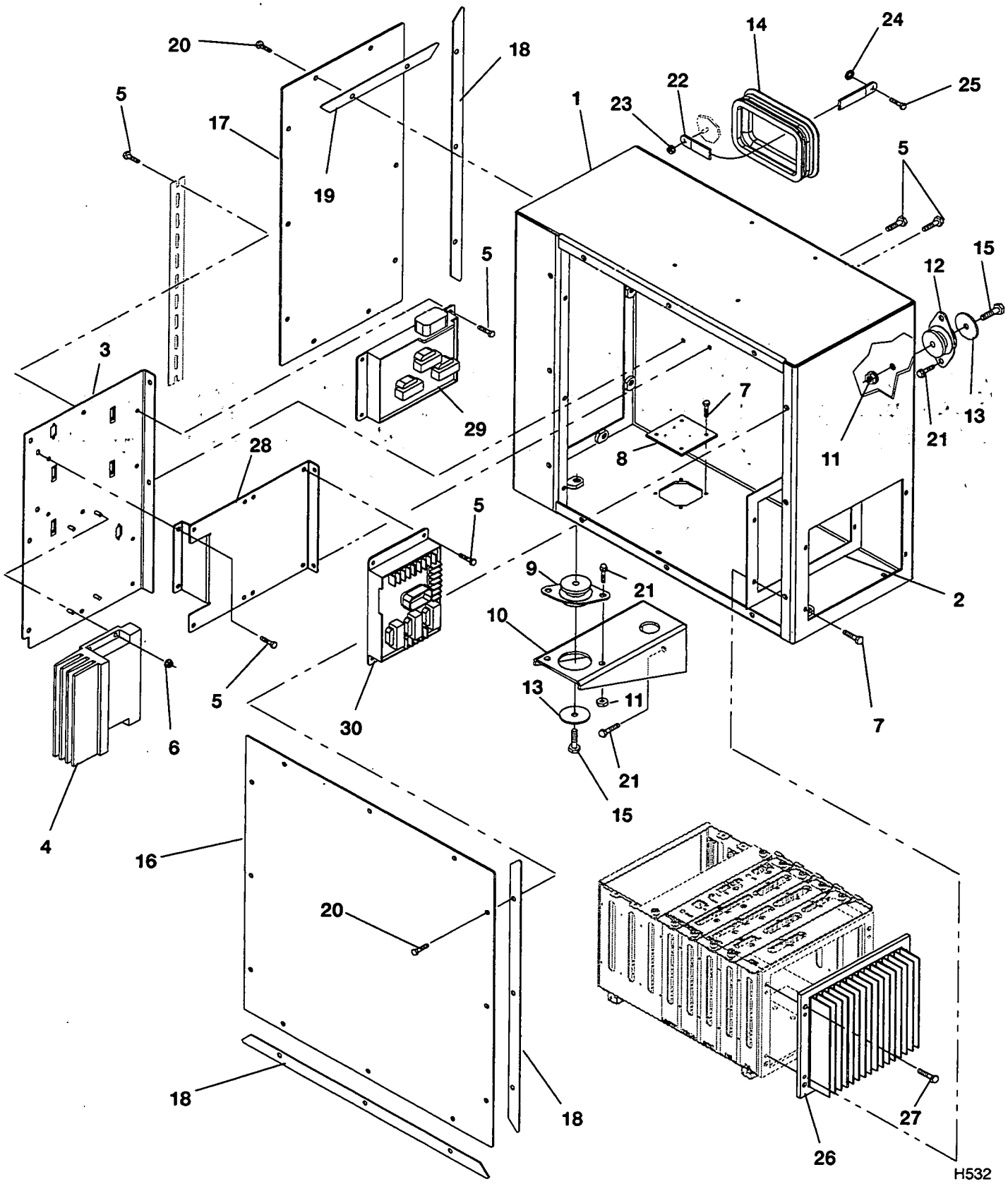


PowerCommand Control Panel

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300–5195	1	Membrane, Operator Panel
2	319–3924–02	1	Panel, Operator
3	300–5180	1	Board, Printed Circuit – Bar Graph
4	319–3950	1	Gasket, Operator Panel
5	319–3923–02	1	Housing, Operator Panel
6	300–5179	1	Board, Printed Circuit – Operator Panel Diagram
7	326–0230	1	Display, Graphic
8	823–0001–01	4	Screw, Torx (M3 x 6)
9	860–2003	2	Nut, Hex (M3)
10	850–0020	2	Washer, Lock (#6)
11	332–3642	1	Standoff
12	823–0002–01	2	Screw, Torx (M4 x 6)
13	332–3643	1	Standoff
14	332–3644	14	Spacer
15	850–2004	7	Washer, Lock (M4)
16	860–2005	7	Nut, Hex (M4)
17	815–0872	2	Screw, Pan Head (#6 x 5/16")
18	300–5196–01	1	Membrane, Switch Panel
19	319–3926–02	1	Panel, Switch
20	319–3925–02	1	Housing, Switch Panel
21	319–3951	1	Gasket, Switch Panel
22	823–0002–01	4	Screw, Torx (M4 x 6)
23	332–3642	4	Standoff
24	300–5181	1	Board, Printed Circuit – Switch Panel (23)
25	338–3801	1	Harness, Wiring – Switch Panel (Includes Parts Marked *)
26	323–1839	1	* Connector – 6 Pin (P1)
27	308–1085	1	* Switch, Selector (S12)
28	308–0999	1	* Switch, Emergency Stop (S13)
29	323–1688	6	* Socket, Contact (Used In P1)
30	332–3491–01	6	* Terminal, Wire Pin (Used In S12, S13)
31	823–0001–01	4	Screw, Hex Head – Thread Forming (M3 x 6)
32	860–2003	1	Nut, Hex (M3)
33	815–0796	4	Screw, Pan Head – Thread Forming (#4–24 x 5/16")
34	850–0020	1	Washer, Lock (#6)
35	300–5280–02	1	Frame, Control Panel
36	300–5291	1	Rail, Operator Panel Light (Includes Parts Marked #)
37	323–1502	1	# Wedge, Receptacle
38	323–1494	1	# Connector, Receptacle (3 Pin)
39	323–1491	3	# Pin, Contact
40	850–2004	16	Washer, Lock (M4)
41	860–2005	16	Nut, Hex (M4 x .7)
42	332–3234–02	1	Connector, Finger
43	856–0010	1	Washer, Lock – W/EIT (3/8")
44	860–2009	1	Nut, Hex (M10)

* – Parts Included in 338–3801 Wiring Harness
# – Parts Included in 300–5291 Operator Panel Light Rail

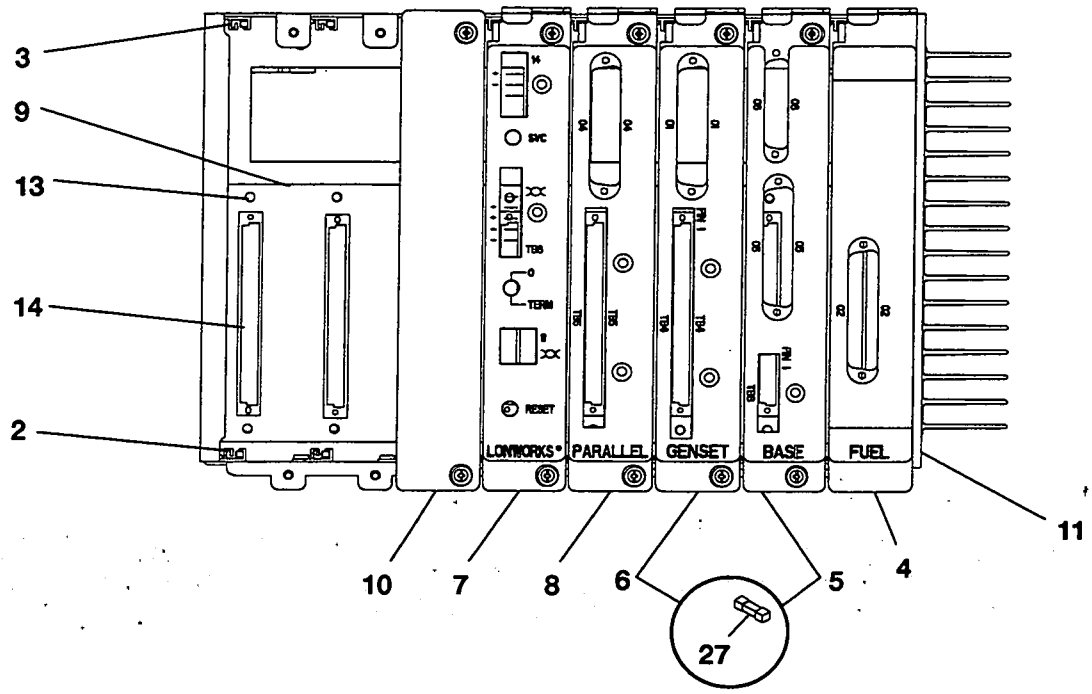
PowerCommand Control

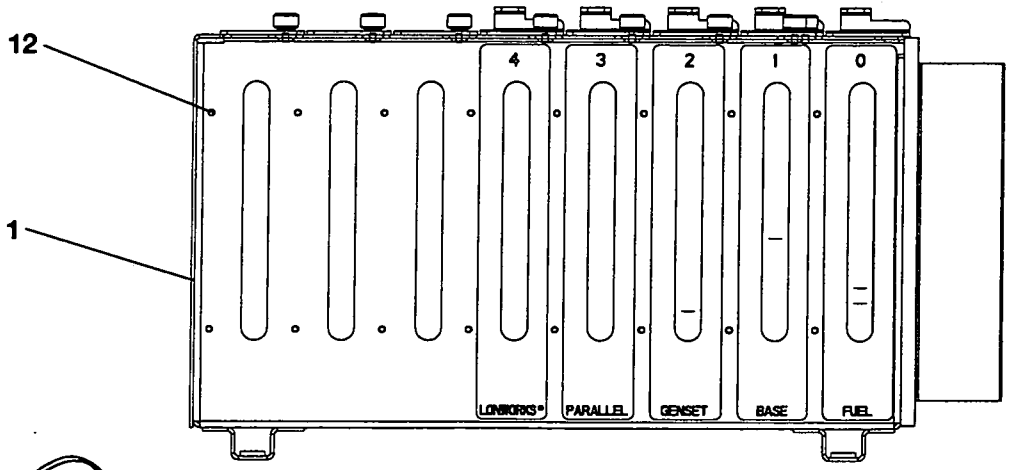


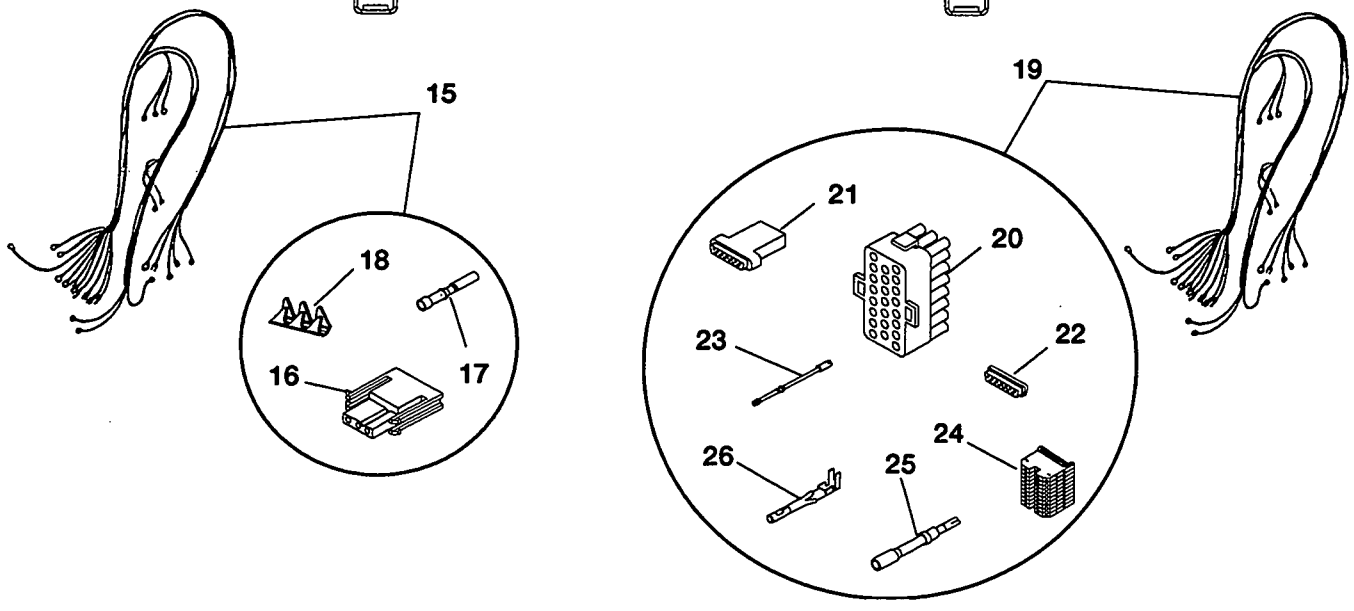
PowerCommand Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319–3586	1	Box, Control
2	363–0189	1	Gasket, Heatsink
3	319–3650	1	Bracket, Terminal Block
4	300–4306	1	Module, Voltage Regulator (AVR)
5	821–6001–02	24	Screw, Hex Head (M5 x 12)
6	870–2208	4	Nut, Flange (M5)
7	815–0828–04	8	Screw, Hex Head (M4 x 16)
8	319–3968	1	Cover, Cutout
9	402–0748	2	Isolator, Vibration
10	319–3583	2	Bracket, Isolator
11	870–2055	4	Nut, Lock (M8)
12	402–0751	2	Isolator, Vibration
13	402–0749	4	Washer, Vibration Isolator
14	332–3629	1	Bellows
15	815–0829–02	4	Screw, Flange Head (M8 x 50)
16	319–3585	1	Cover, Box – Main
17	319–3584	1	Cover, Box – Side
18	363–0188	6	Gasket, Cover
19	363–0187	2	Gasket, Cover
20	821–6002–02	22	Screw, Hex Head (M6 x 12)
21	821–6003–01	12	Screw, Hex Head (M8 x 16)
22	337–3466–02	1	Strap, Bond
23	870–2203	1	Nut, Locking (M10)
24	856–0010	1	Washer – W/ET (M10)
25	821–6004–01	1	Screw, Hex Head (M10 x 1.5 x 20)
26	363–0183	1	Heatsink, Genset
27	823–0002–04	8	Screw, Hex Head – Thread Forming (M4 x 12)
28	319–3649	1	Bracket, PT Bus Mounting
29			Board, Printed Circuit – PT/CT
	300–4308–01	1	120 Volt
	300–4308–02	1	240 Volt
30			Board, Printed Circuit – Power Transformer Bus
	300–4309–01	1	120 Volt
	300–4309–02	1	240 Volt

Card Cage


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LONWORKS®
PARALLEL
GENSET
BASE
FUEL
SVC
TERM
RESET


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LONWORKS®
PARALLEL
GENSET
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FUEL

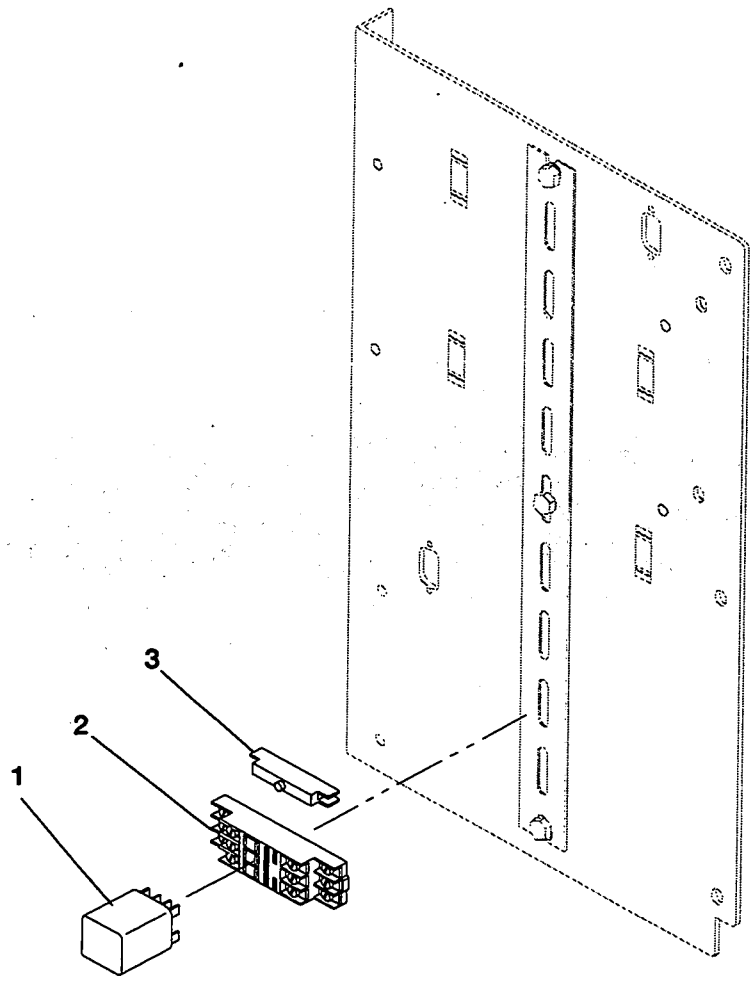

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Card Cage

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

* – Parts Included in 338–3828 Wiring Harness
# – Parts Included in 338–3827 Wiring Harness

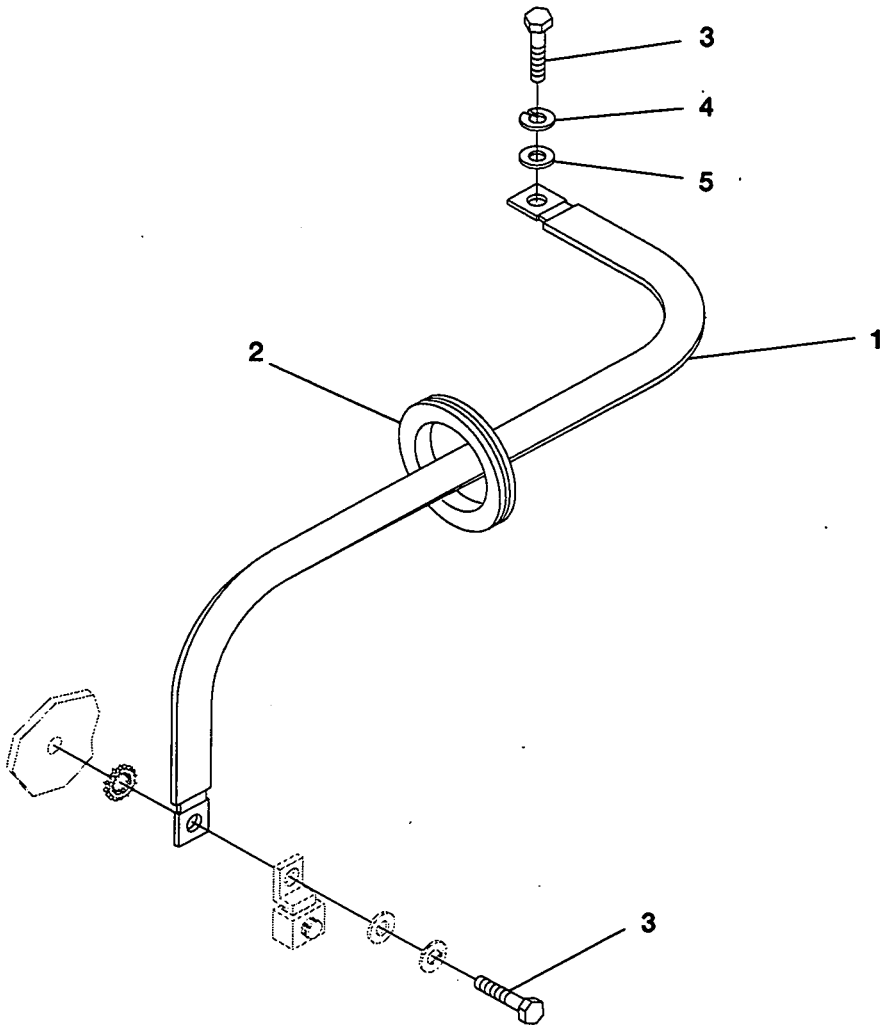
Relay



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Relay
			Alarm Relay (K14)
	307–1058–01	1	12 Volt
	307–1056–01	1	24 Volt
			Run Relay (K11,12,13)
	307–1058–01	3	12 Volt
	307–1056–01	3	24 Volt

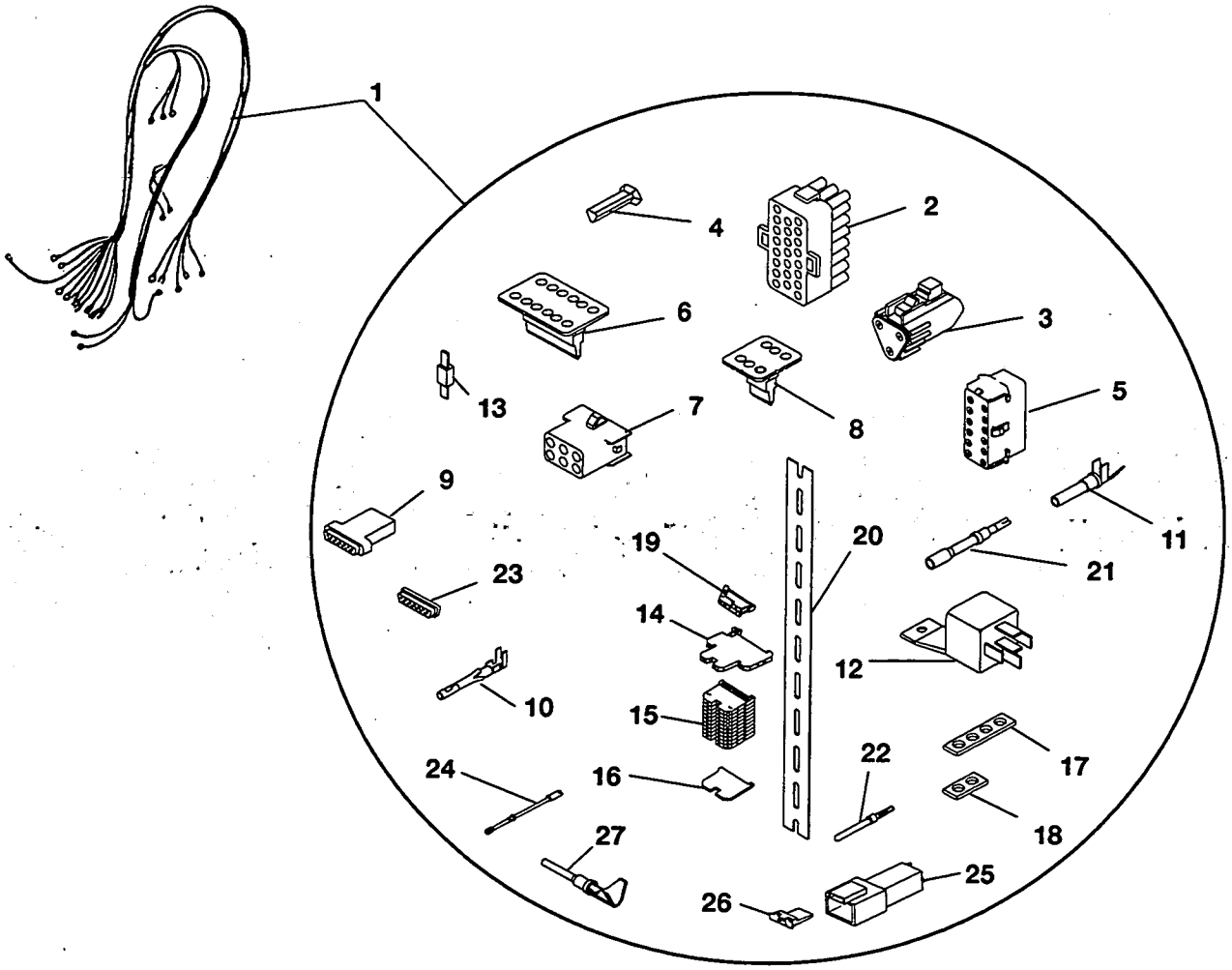
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2			Socket, Relay
	323–1410–01	1	Alarm Relay
	323–1410–01	3	Run Relay
3	323–1411–01	2	Clip, Socket Mounting

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	2	Screw, Cap – Hex Head (M10 x 35mm)				

Wiring Harness
Control

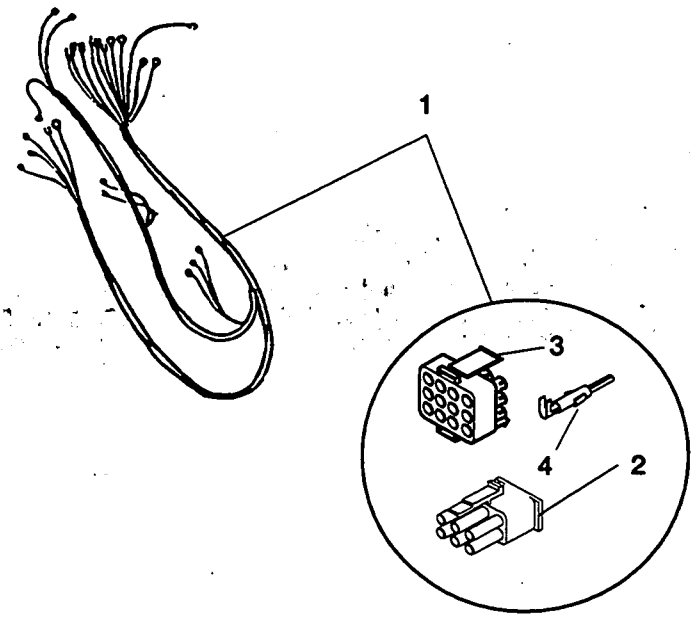


CP01

Wiring Harness
Control

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

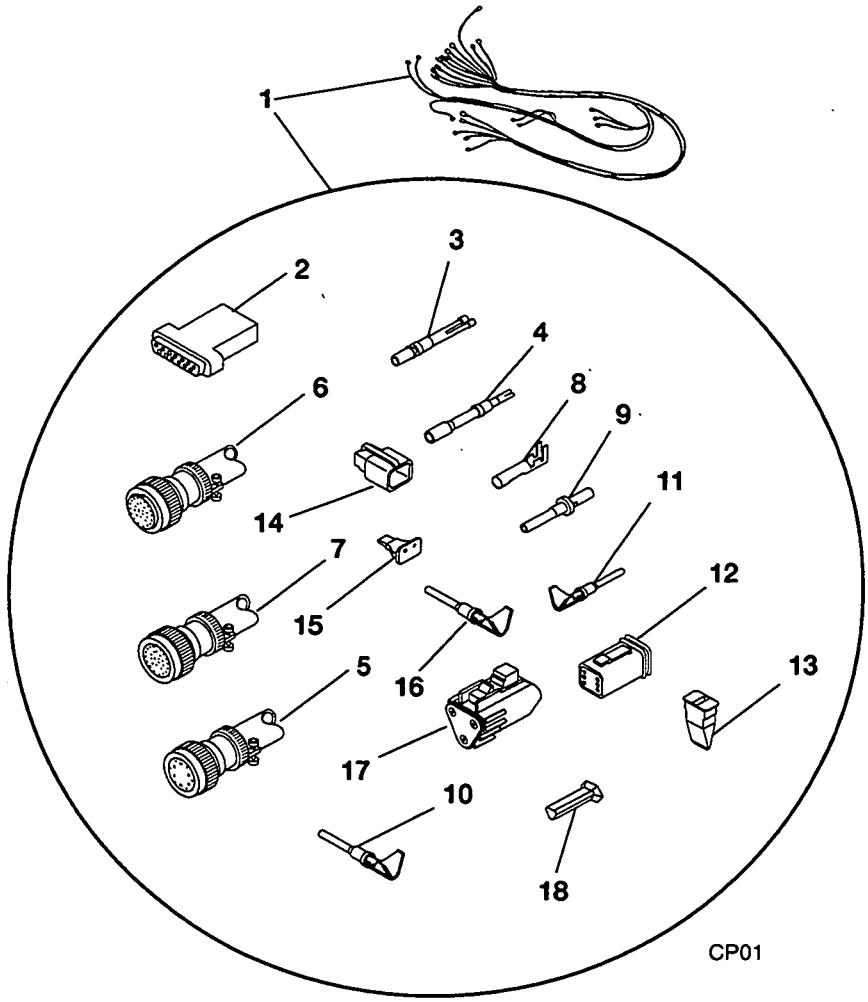
Wiring Harness
AC



CP01

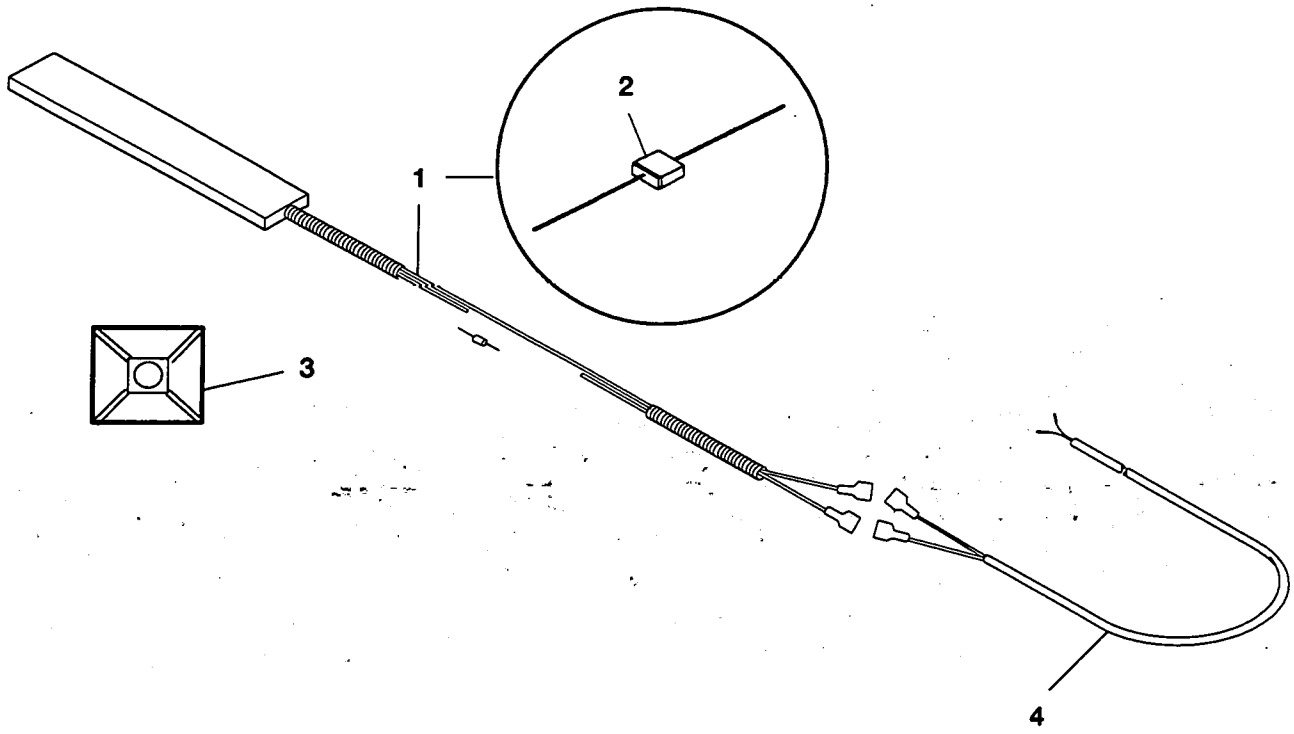
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – AC (15 Wire) (Includes Parts Listed Below)
			Standard – Frame 7 Generators (Without Remote Control) (09, 10 to PMG, X, XX, 5, 6, 7, 8, CT21, 22, 23) (82")
	338–3805	1	Low Voltage
	338–3873	1	Medium Voltage
			Remote Control Frame 7 Generators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

Wiring Harness
Engine Extension



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338–3800	1	Harness, Wiring – Engine Extension (Includes All Parts Listed Below) (C1,C2,C3 to J2,J5,J14,J15,J16,)
2			Connector, Contact
	323–1841	1	9 Place (Includes Screws and Locknuts) (Connector 13)
	323–1837	2	50 Place (Includes Backshell and Hardware) (Connector 2 and 5)
3	323–1835–01	20	Socket; Contact (5/8" Long)
4	323–1835–02	125	Socket, Contact (7/8" Long)
5	323–1833	1	Plug, Connector (19 Place) (Inline C)
6	323–1832	1	Plug, Connector (33 Place) (With Center Collar) (Inline A)
7	323–1831	1	Plug, Connector (33 Place) (Without Center Collar) (Inline B)
8	323–1752	30	Socket, Contact
9	323–1838	6	Pin, Contact
10	323–1491	12	Pin, Contact (Used With 323–1625 Housing)
11	323–1834	30	Pin, Contact
12	323–1625	1	Housing, Connector (6 Place) (Inline D)
13	323–1626	1	Wedge (Used With 323–1625 Housing)
14	323–1504	4	Plug, Connector (2 Place)
15	323–1500	4	Wedge
16	323–1492	8	Socket, Contact
17	323–1493	1	Plug, Connector (3 Place)
18	323–1503	1	Wedge

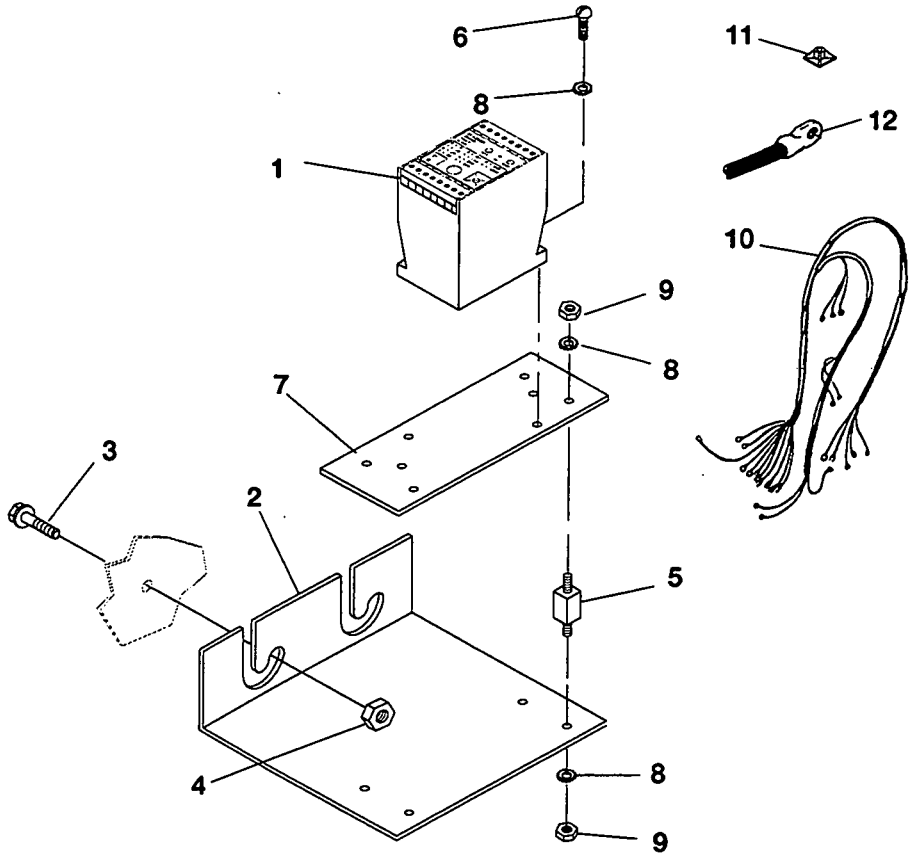
Control Heater



A362

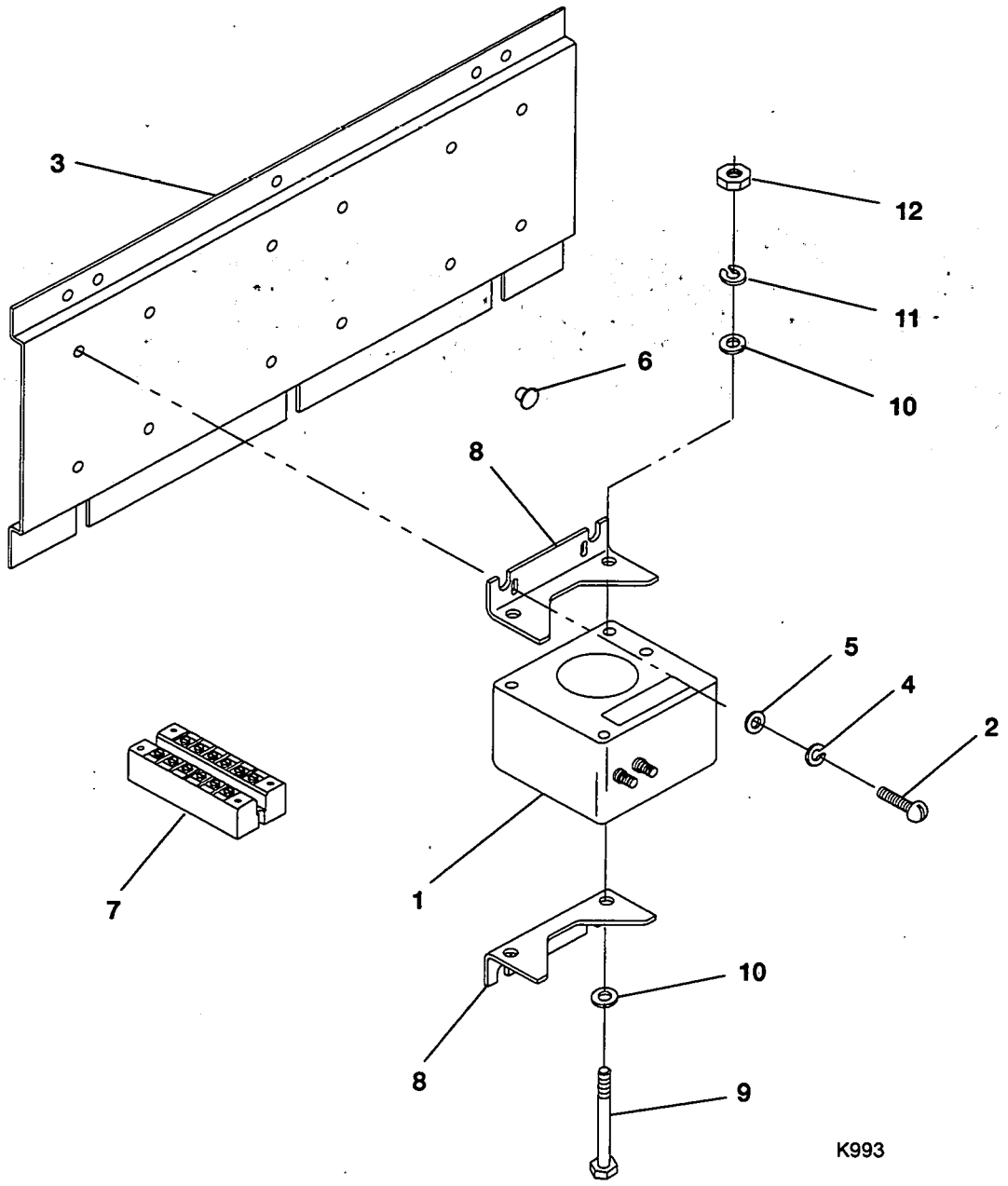
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater Assembly, Control – 100 Watt (Includes Rectifier)
	300–4515–01	1	120 Volt
	300–4515–02	1	240 Volt
2	357–0114	1	Rectifier (3 Amp)
3	332–3338	2	Mount, Cable
4	338–3829	1	Harness, Wiring – Control Heater (120 Volt)

Ground Fault Relay



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307–2843	1	Relay (GFA)
2	301–6987	1	Bracket, Mounting
3	821–0017	2	Screw, Self–Locking – Hex Washer Head (5/16–18 x 1/2")
4	870–0257	2	Nut, Hex – Self–Locking (5/16–18)
5	402–0354	4	Mount, Shock
6	812–0081	2	Screw, Machine – Round Head (#8–32 x 5/8")
7	319–0030	1	Plate, Mounting
8	853–0005	8	Washer, Lock – ET (#8)
9	870–0221	10	Nut, Hex – W/ET (#8–32)
10	338–3233	1	Harness, Wiring (GFA to TB1, GEN NEUTRAL and GND) (5 Wire, 119")
11	332–2420	2	Mount, Cable Tie
12	226–4406–06	2	Cable, Generator (Generator Neutral to Generator Grounding Bolt) (24")

Differential Current Transformer



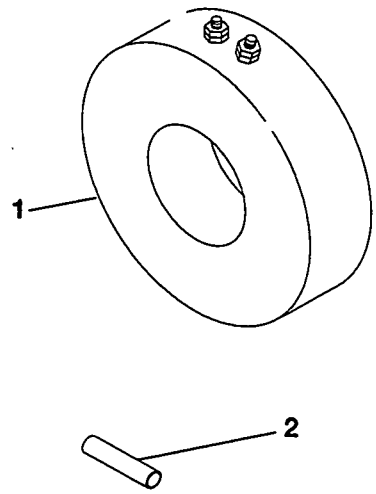
Differential Current Transformer

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT1,CT2,CT3)
			5kV
	302–1945–10	3	Ratio 75/5
	302–1945–03	3	Ratio 100/5
	302–1945–02	3	Ratio 150/5
	302–1945–01	3	Ratio 200/5
	302–1945–04	3	Ratio 250/5
	302–1945–05	3	Ratio 300/5
	302–1945–06	3	Ratio 400/5
	302–1945–07	3	Ratio 500/5
	302–1945–08	3	Ratio 600/5
	302–1945–09	3	Ratio 750/5
	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
	302–1961–10	3	Ratio 1200/5
	302–1961–11	3	Ratio 1500/5
	302–1961–12	3	Ratio 1600/5
	302–1961–13	3	Ratio 1800/5
	302–1961–14	3	Ratio 2000/5
	302–1961–15	3	Ratio 2500/5
	302–1961–16	3	Ratio 3000/5

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	813–0098	12	* Screw, Machine – Round Head (#10–32 x 3/8")
3	319–1265	1	* Bracket, Current Transformer
4	850–0030	12	* Washer, Lock – Spring (#10)
5	526–0008	12	* Washer, Flat (#10)
6	517–0090	1	Plug, Hole (Fits 5/16" Hole) (Quantity Used As Required)
7	332–3178–01	1	Block, Terminal (6 Place) (SCB)
8	319–3297	6	* Bracket, Foot
9	800–0039	6	* Screw, Cap – Hex Head (5/16–18 x 3–1/2")
10	526–0022	12	* Washer, Flat (5/16")
11	850–0045	6	* Washer, Lock – Spring (5/16")
12	862–0015	6	* Nut, Hex (5/16–18)

* – Mounting Hardware Used With 5kV Current Transformers

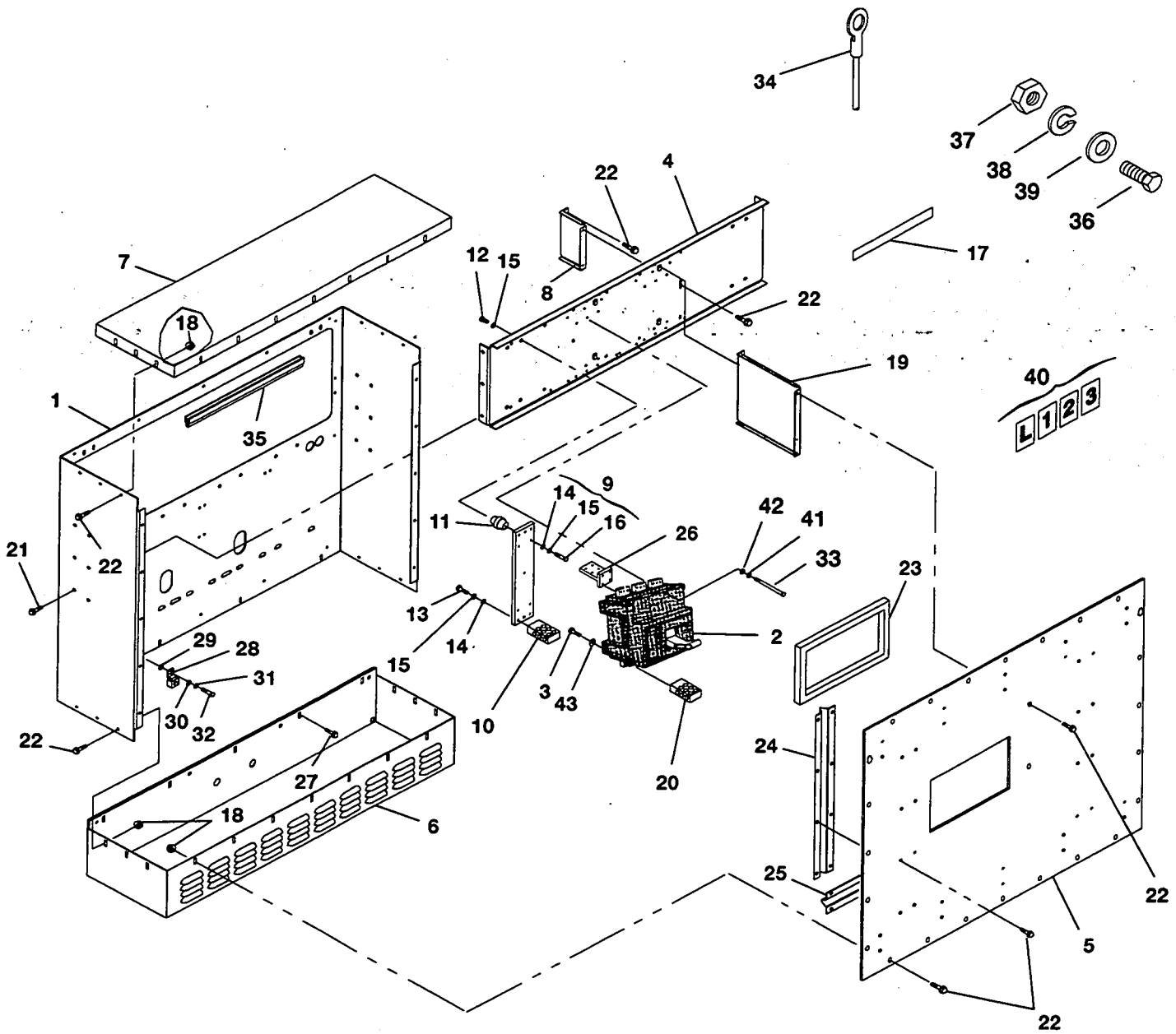
Current Transformer



CP01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT21, CT22, CT23)
	302–1926–36	3	Ratio 670/1
	302–1926–37	3	Ratio 1150/1
	302–1926–34	3	Ratio 4200/1
	302–1926–32	3	Ratio 5750/1
	302–1926–31	3	Ratio 6250/1
2	898–1329	3	Sleeving, Insulation – Used On Neutral Ends Of Generator Phase Conductors (2400, 1905 DELTA and 4160, 3300 WYE) (5–1/2")

Circuit Breaker
UL Listed



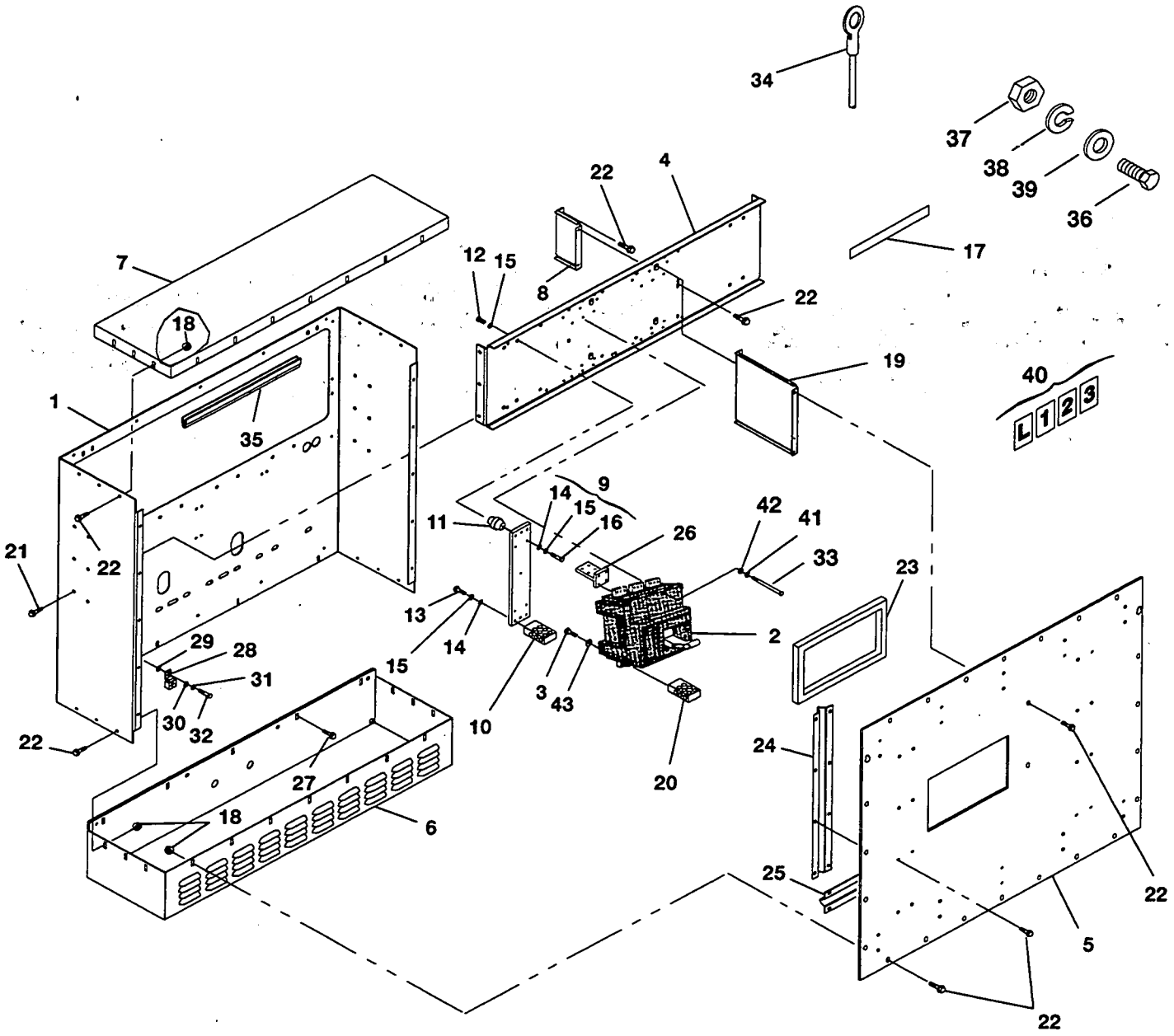
Circuit Breaker
UL Listed

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319–3184	1	Box, Circuit Breaker
2			Breaker, Circuit – 3 Pole, 100% Rated (Includes Mounting Screws) Frame Size CM2000–HH Circuit Breakers Include Bus Bars (T–bars) (CB21)
			Standard
	320–1783–01	1	Frame Size CM1250–HH
	320–1783	1	Frame Size CM1600–HH
	320–1783–02	1	Frame Size CM2000–HH
	320–1783–03	1	Frame Size CM2500–HH
			With 24 Volt Shunt Trip
	320–1783–05	1	Frame Size CM1250–HH
	320–1783–04	1	Frame Size CM1600–HH
	320–1783–06	1	Frame Size CM2000–HH
	320–1783–07	1	Frame Size CM2500–HH
			With Auxiliary Contacts and Bell Alarm
	320–1783–18	1	Frame Size CM1250–HH
	320–1783–17	1	Frame Size CM1600–HH
	320–1783–19	1	Frame Size CM2000–HH
	320–1783–20	1	Frame Size CM2500–HH
			With Auxiliary Contacts, Bell Alarm and 24 Volt Shunt Trip
	320–1783–09	1	Frame Size CM1250–HH
	320–1783–08	1	Frame Size CM1600–HH
	320–1783–10	1	Frame Size CM2000–HH
	320–1783–11	1	Frame Size CM2500–HH
3	800–2089	9	Screw, Cap – Hex Head (M10 x 40mm) CM1250–HH, CM1600–HH Breakers
4	319–3153	1	Bracket, Mounting
5	319–3266–01	1	Cover, Circuit Breaker
6	319–1925	1	Panel – Bottom
7	319–1961	1	Panel – Top
8	319–3253–02	1	Brace, Mounting – Circuit Breaker
9	300–4480–01	1	Bar Assembly, Neutral (Includes Neutral Bars, Labels and Parts Marked *)
10	332–3303–01	1	* Lug, Solderless
11	332–2744–07	4	* Standoff, Insulator
12	800–0048	4	* Screw, Cap – Hex Head (3/8–16 x 3/4")
13	800–2089	3	* Screw, Cap – Hex Head (M10 x 40mm)
14	526–2120	7	* Washer, Flat (M10)
15	850–2010	11	* Washer, Lock – Spring (M10)
16	800–0052	4	* Screw, Cap – Hex Head (3/8–16 x 1–1/2")
17	091–0002	1	* Strip, Copper (Used for wrapping ends of leads before securing to neutral bar lugs) (Quantity Used As Required)
18	870–0504	26	Nut, Self–Retaining (M6)
19	319–3252–02	1	Brace, Cover
20	332–3303–01	3	Lug, Solderless
21	821–6003–02	6	Screw, Self–Locking – Hex Washer Head (M8 x 20mm)
22	821–6002–03	85	Screw, Self–Locking – Hex Washer Head (M6 x 16mm)
23	895–0182	–	Stripping, Weather – Bulk (Order By The Foot – 4 Feet Required)
24	319–3286	2	Brace, Cover (Vertical)
25	319–3288	2	Brace, Cover (Horizontal)
26			Bar, Bus (T–Bar) (Includes Mounting Hardware)
	337–2789	4	Sets With CM1250–HH, CM1600–HH Breakers
	337–2789	1	Sets With CM2000–HH, CM2500–HH Breakers
27	821–2035	5	Screw, Self–Locking – Hex Washer Head (M6 x 25mm)
28	332–2001	1	Lug, Solderless
29	856–0010	1	Washer, Lock – EIT (3/8")
30	526–2120	1	Washer, Flat (M10)
31	850–2010	1	Washer, Lock – Spring (M10)
32	800–2086	1	Screw, Cap – Hex Head (M10 x 25mm)

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

Continued...

Circuit Breaker
UL Listed

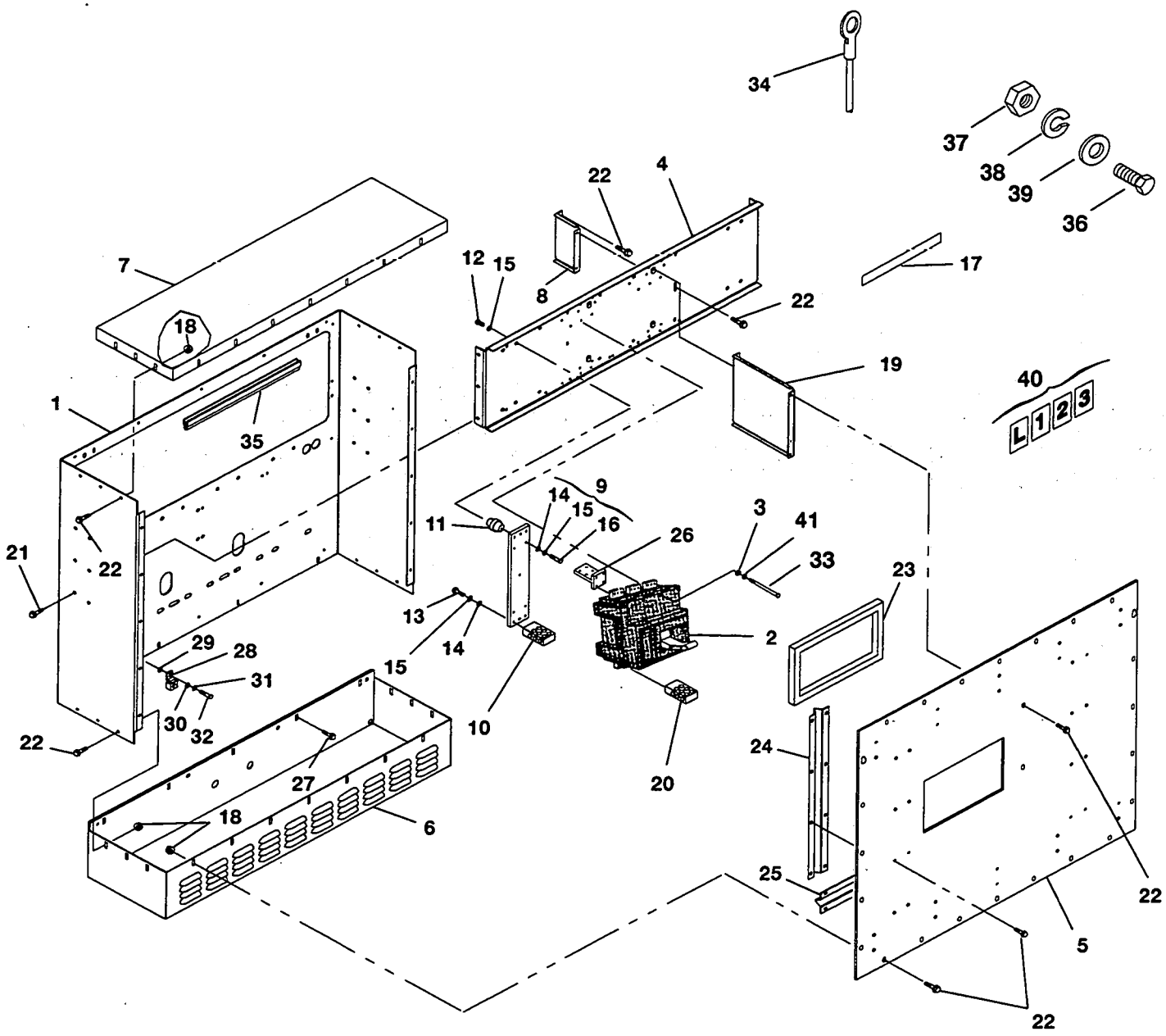


Circuit Breaker
UL Listed

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...			
33	800–2063	4	Screw, Cap – Hex Head (M8 x 50mm)
34	226–4406–08	1	Lead – Circuit Breaker (Quantity Used As Required) 36" (Without Markings) (#1/0 Wire)
35	508–1109	–	Edging – Bulk (Order By The Foot – 3 Feet Required)
			The following four hardware items are used to fasten the load leads to the generator, neutral bar and circuit breaker.
36	800–2116	24	Screw, Cap – Hex Head (M12 x 50mm)
37	860–2010	24	Nut, Hex (M12)
38	850–2012	24	Washer, Lock – Spring (M12)
39	526–2140	48	Washer, Flat (M12)
40			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
	098–5854–06	3	Marked "L"
	098–5854–07	1	Marked "1"
	098–5854–08	1	Marked "2"
	098–5854–09	1	Marked "3"
41	850–2008	4	Washer, Lock – Spring (M8)
42	526–2100	4	Washer, Flat (M8)
43	850–2010	9	Washer, Lock – Spring (M10) CM1250–HH, CM1600–HH Breakers

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

Disconnect Switch
Molded Case
UL Listed

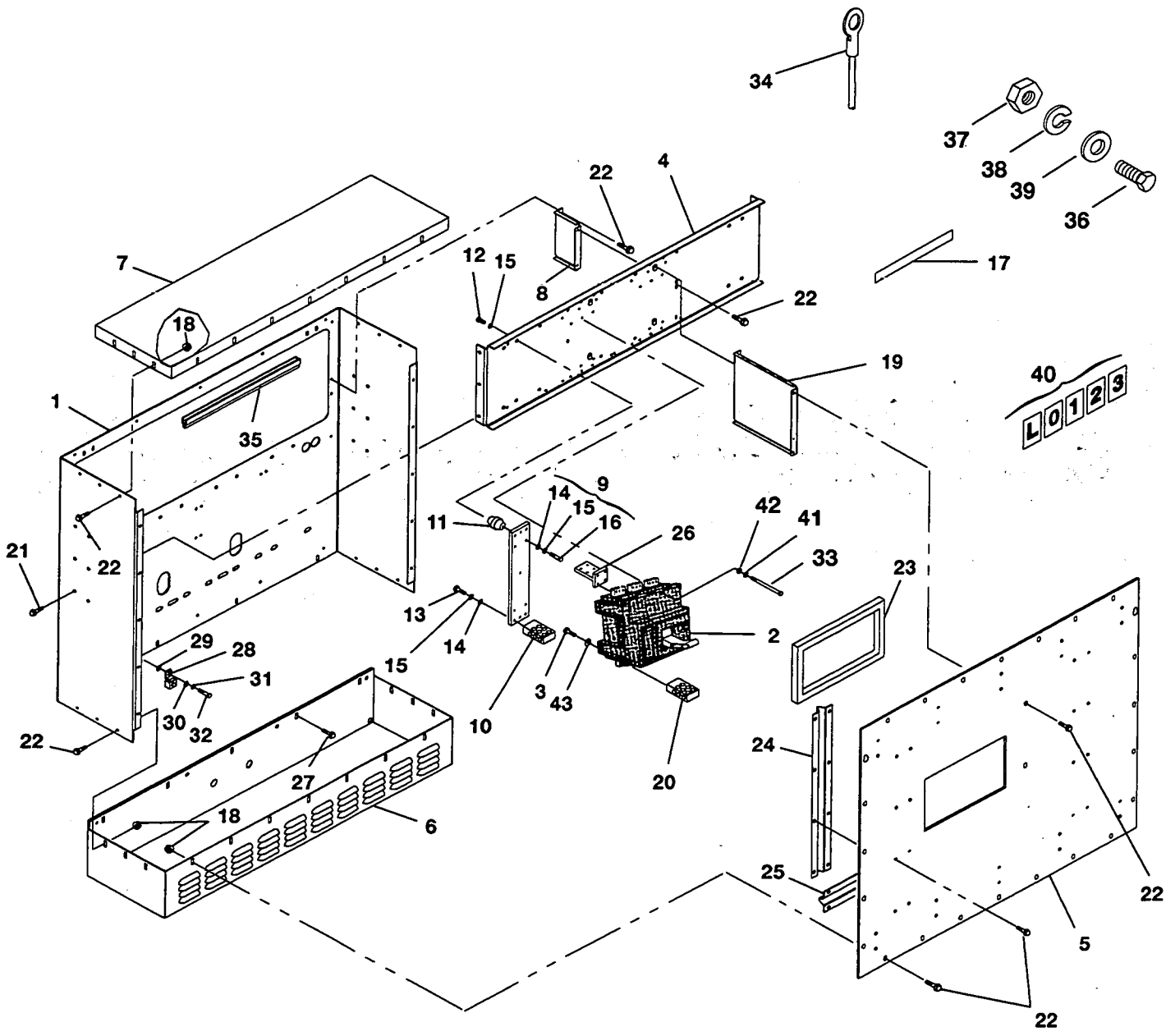


Disconnect Switch
Molded Case
UL Listed

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319–3184	1	Box, Disconnect Switch
2	320–1907–02	1	Switch, Disconnect – 2000 Amp, 3 Pole (Includes Mounting Screws) (CB21)
3	526–2100	4	Washer, Flat (M8)
4	319–3153	1	Bracket, Mounting
5	319–3266–01	1	Cover, Disconnect Switch
6	319–1925	1	Panel – Bottom
7	319–1961	1	Panel – Top
8	319–3253–02	1	Brace, Mounting – Disconnect Switch
9	300–4480–01	1	Bar Assembly, Neutral (Includes Neutral Bars, Labels and Parts Marked *)
10	332–3303–01	1	* Lug, Solderless
11	332–2744–07	4	* Standoff, Insulator
12	800–0048	4	* Screw, Cap – Hex Head (3/8–16 x 3/4")
13	800–2089	3	* Screw, Cap – Hex Head (M10 x 40mm)
14	526–2120	7	* Washer, Flat (M10)
15	850–2010	11	* Washer, Lock – Spring (M10)
16	800–0052	4	* Screw, Cap – Hex Head (3/8–16 x 1–1/2")
17	091–0002	1	* Strip, Copper (Used for wrapping ends of leads before securing to neutral bar lugs) (Quantity Used As Required)
18	870–0504	26	Nut, Self–Retaining (M6)
19	319–3252–02	1	Brace, Cover
20	332–3303–01	3	Lug, Solderless
21	821–6003–02	6	Screw, Self–Locking – Hex Washer Head (M8 x 20mm)
22	821–6002–03	89	Screw, Self–Locking – Hex Washer Head (M6 x 16mm)
23	895–0182	–	Stripping, Weather – Bulk (Order By The Foot – 4 Feet Required)
24	319–3286	2	Brace, Cover (Vertical)
25	319–3288	2	Brace, Cover (Horizontal)
26	337–2789	1	Bar, Bus (T–Bar) (Includes Mounting Hardware)
27	821–2035	5	Screw, Self–Locking – Hex Washer Head (M6 x 25mm)
28	332–2001	1	Lug, Solderless
29	856–0010	1	Washer, Lock – EIT (3/8")
30	526–2120	1	Washer, Flat (M10)
31	850–2010	1	Washer, Lock – Spring (M10)
32	800–2086	1	Screw, Cap – Hex Head (M10 x 25mm)
33	800–2063	4	Screw, Cap – Hex Head (M8 x 50mm)
34	226–4406–08	1	Lead – Disconnect Switch (Quantity Used As Required) 36" (Without Markings) (#1/0 Wire)
35	508–1109	–	Edging – Bulk (Order By The Foot – 3 Feet Required) **The following four hardware items are used to fasten the load leads to the generator, neutral bar and circuit breaker.**
36	800–2116	24	Screw, Cap – Hex Head (M12 x 50mm)
37	860–2010	24	Nut, Hex (M12)
38	850–2012	24	Washer, Lock – Spring (M12)
39	526–2140	48	Washer, Flat (M12)
40			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
	098–5854–06	3	Marked "L"
	098–5854–07	1	Marked "1"
	098–5854–08	1	Marked "2"
	098–5854–09	1	Marked "3"
41	850–2008	4	Washer, Lock – Spring (M8)

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

Circuit Breaker
Non–UL Listed



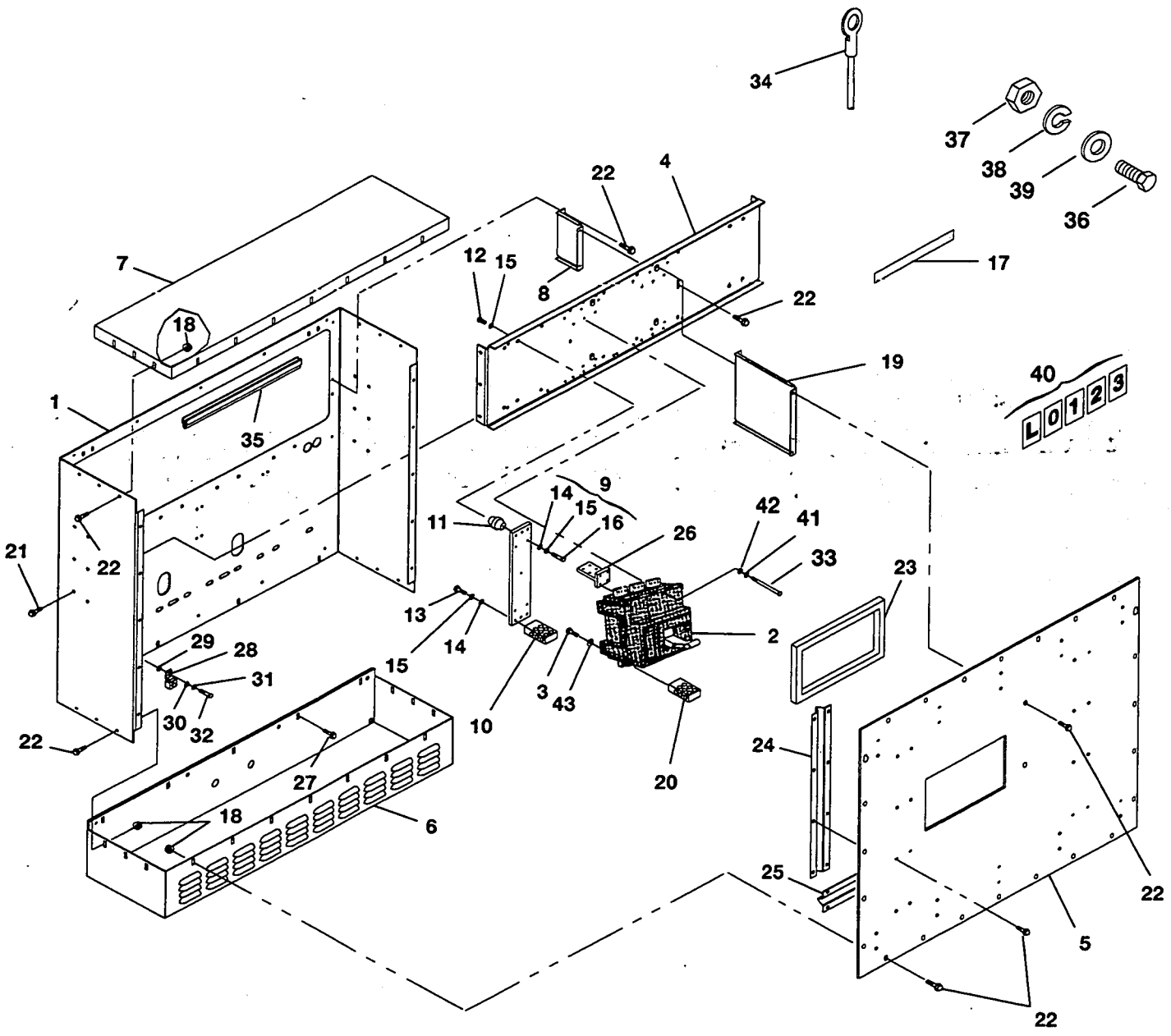
Circuit Breaker
Non–UL Listed

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319–3184	1	Box, Circuit Breaker
2			Breaker, Circuit (Includes Mounting Screws) (CB21)
			Three Pole Breakers
			Standard
	320–1699–01	1	Frame Size CM1250
	320–1699	1	Frame Size CM1600
	320–1699–02	1	Frame Size CM2000
			With 24 Volt Shunt Trip
	320–1699–05	1	Frame Size CM1250
	320–1699–04	1	Frame Size CM1600
	320–1699–06	1	Frame Size CM2000
			With Auxiliary Contacts, Bell Alarm and 24 Volt Shunt Trip
	320–1699–09	1	Frame Size CM1250
	320–1699–08	1	Frame Size CM1600
	320–1699–10	1	Frame Size CM2000
			Four Pole Breakers
			Standard
	320–1699–22	1	Frame Size CM1250
	320–1699–21	1	Frame Size CM1600
	320–1699–23	1	Frame Size CM2000
			With 24 Volt Shunt Trip
	320–1699–26	1	Frame Size CM1250
	320–1699–25	1	Frame Size CM1600
	320–1699–27	1	Frame Size CM2000
			With Auxiliary Contacts, Bell Alarm and 24 Volt Shunt Trip
	320–1699–30	1	Frame Size CM1250
	320–1699–29	1	Frame Size CM1600
	320–1699–31	1	Frame Size CM2000
3			Screw, Cap – Hex Head (M10 x 40mm)
	800–2089	9	Sets With 3 Pole Circuit Breakers
	800–2089	12	Sets With 4 Pole Circuit Breakers
4	319–3153	1	Bracket, Mounting
5			Cover, Circuit Breaker
	319–3266–01	1	Sets With 3 Pole Circuit Breakers
	319–3266–02	1	Sets With 4 Pole Circuit Breakers
6	319–1925	1	Panel – Bottom
7	319–1961	1	Panel – Top
8	319–3253–02	1	Brace, Mounting – Circuit Breaker
9	300–4480–01	1	Bar Assembly, Neutral (Includes Neutral Bars, Labels and Parts Marked *) (Used With 3 Pole Circuit Breakers)
10	332–3303–01	1	* Lug, Solderless
11	332–2744–07	4	* Standoff, Insulator
12	800–0048	4	* Screw, Cap – Hex Head (3/8–16 x 3/4")
13	800–2089	3	* Screw, Cap – Hex Head (M10 x 40mm)
14	526–2120	7	* Washer, Flat (M10)
15	850–2010	11	* Washer, Lock – Spring (M10)
16	800–0052	4	* Screw, Cap – Hex Head (3/8–16 x 1–1/2")
17	091–0002	1	* Strip, Copper (Used for wrapping ends of leads before securing to neutral bar lugs) (Quantity Used As Required)
18	870–0504	26	Nut, Self–Retaining (M6)
19	319–3252–02	1	Brace, Cover
20			Lug, Solderless
	332–3303–01	3	Sets With 3 Pole Circuit Breakers
	332–3303–01	4	Sets With 4 Pole Circuit Breakers
21	821–6003–02	6	Screw, Self–Locking – Hex Washer Head (M8 x 20mm)
22			Screw, Self–Locking – Hex Washer Head (M6 x 16mm)
	821–6002–03	89	Sets With 3 Pole Circuit Breakers
	821–6002–03	81	Sets With 4 Pole Circuit Breakers

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

Continued...

Circuit Breaker
Non–UL Listed



Circuit Breaker
Non–UL Listed

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...			
23			Stripping, Weather – Bulk (Order By The Foot)
	895–0182	–	Sets With 3 Pole Circuit Breakers (4 Feet Required)
	895–0182	–	Sets With 4 Pole Circuit Breakers (6 Feet Required)
24			Brace, Cover (Vertical)
	319–3286	2	Sets With 3 Pole Circuit Breakers
	319–3286	1	Sets With 4 Pole Circuit Breakers
25	319–3288	2	Brace, Cover (Horizontal)
26			Bar, Bus (T–Bar) (Includes Mounting Hardware)
	337–2789	4	Sets With Frame Size CM1250 and CM1600 Circuit Breakers
	337–2789	1	Sets With Frame Size CM2000 Circuit Breakers
27	821–2035	5	Screw, Self–Locking – Hex Washer Head (M6 x 25mm)
28	332–2001	1	Lug, Solderless
29	856–0010	1	Washer, Lock – EIT (3/8")
30	526–2120	1	Washer, Flat (M10)
31	850–2010	1	Washer, Lock – Spring (M10)
32	800–2086	1	Screw, Cap – Hex Head (M10 x 25mm)
33	800–2063	4	Screw, Cap – Hex Head (M8 x 50mm)
34	226–4406–08	1	Lead – Circuit Breaker (Quantity Used As Required) 36" (Without Markings) (#1/0 Wire)
35	508–1109	–	Edging – Bulk (Order By The Foot – 3 Feet Required) **The following four hardware items are used to fasten the load leads to the generator.**
36	800–2116	24	Screw, Cap – Hex Head (M12 x 50mm)
37	860–2010	24	Nut, Hex (M12)
38	850–2012	24	Washer, Lock – Spring (M12)
39	526–2140	48	Washer, Flat (M12)
40			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
			Marked "L"
	098–5854–06	3	Sets With 3 Pole Circuit Breakers
	098–5854–06	4	Sets With 4 Pole Circuit Breakers
	098–5854–07	1	Marked "1"
	098–5854–08	1	Marked "2"
	098–5854–09	1	Marked "3"
	098–5854–10	1	Marked "0" (Sets With 4 Pole Circuit Breakers)
41	850–2008	4	Washer, Lock – Spring (M8)
42	526–2100	4	Washer, Flat (M8)
43			Washer, Lock – Spring (M10)
	850–2010	9	Sets With 3 Pole Circuit Breakers
	850–2010	12	Sets With 4 Pole Circuit Breakers

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

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