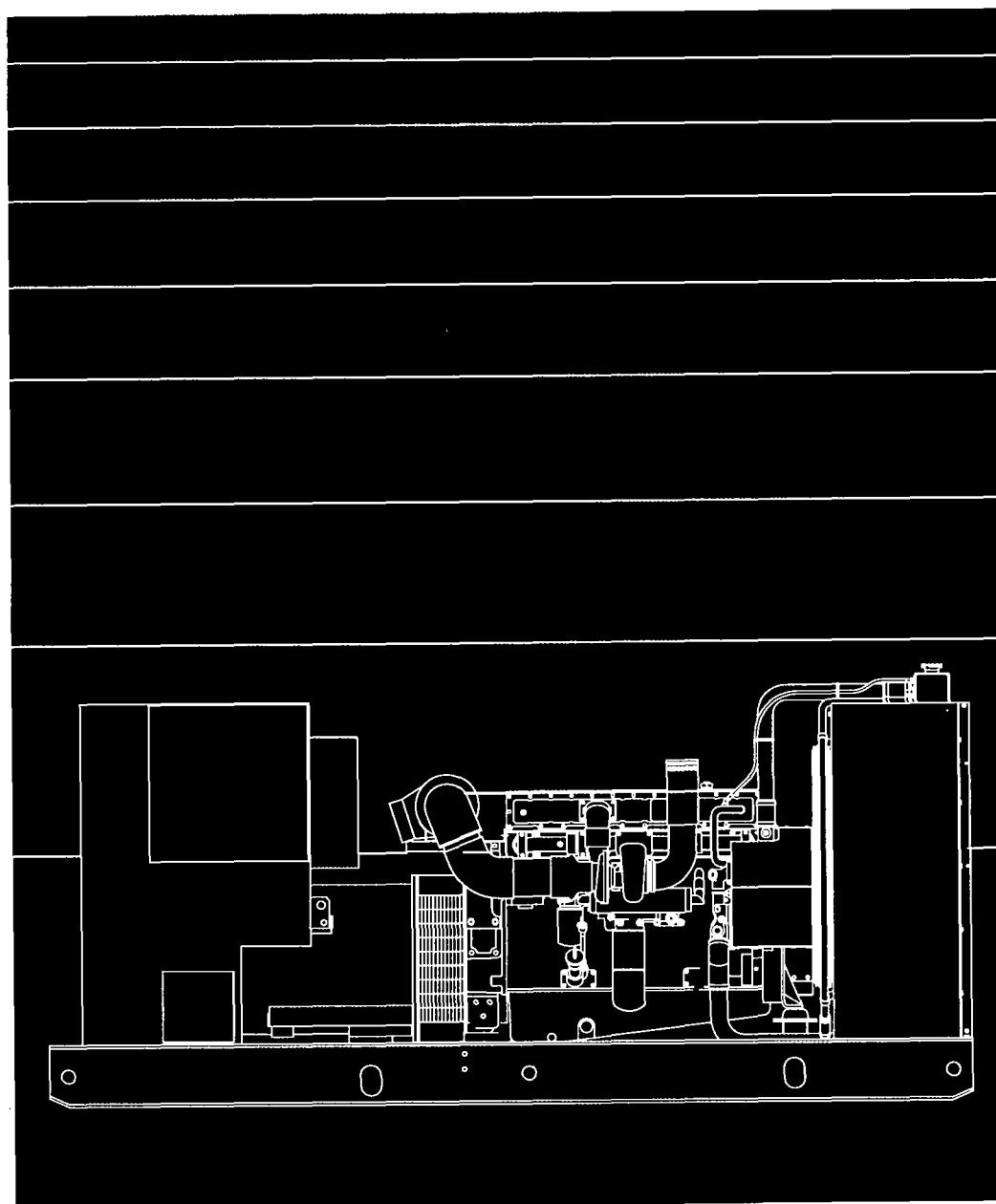




Parts Catalog

DFAA
DFAB
DFAC
Generator Set



Printed in U.S.A.

960-0260 (Spec A - G) 6-97
Replaces (Spec A) 8-92

Introduction

This catalog applies to Onan Generator Models DFAA, DFAB and DFAC 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
DFAA, DFAB, DFAC	LTA10-G1, Spec No. D343123GX02 LTA10-G3, Spec No. D343123GX02

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	
175DFAA/*	175,000	#	50	12	3	24VDC
200DFAA/*	200,000	#	60	12	3	24VDC
200DFAB/*	200,000	#	50	12	3	24VDC
230DFAB/*	230,000	#	60	12	3	24VDC
220DFAC/*	220,000	#	50	12	3	24VDC
250DFAC/*	250,000	#	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

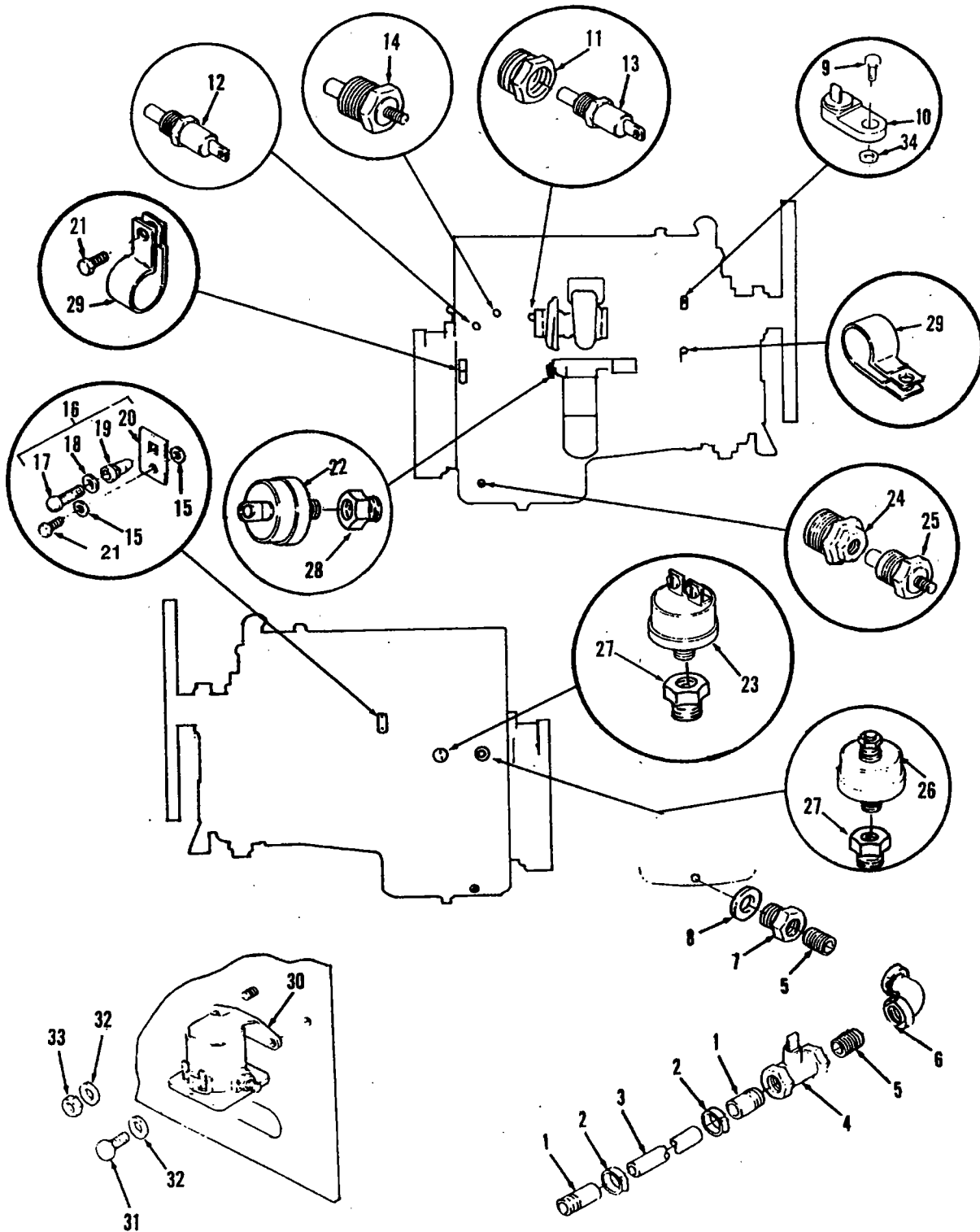
Some of the following abbreviations may be used throughout this Parts Catalog;

Alternating Current	AC	Millimeter	mm
Ampere	Amp	Not For Sale	NFS
As Required	A/R	Nominal Pipe Thread	NPT
Automatic Voltage Regulator	AVR	Outside Diameter	OD
American Wire Gauge	AWG	Ounce	oz.
Degree	Deg	Permanent Magnet Exciter	PMG
Direct Current	DC	Phase	Ph
External Tooth	ET	Printed Circuit	PC
External/Internal Tooth	EIT	Radio Frequency Interference	RFI
Ground Fault Interrupter	GFI	Right	RT
Inside Diameter	ID	Specification	Spec
Internal Tooth	IT	Thick	Thk
International Electrotechnical Commission	IEC	Underwriters Laboratories Inc.	UL
Kilowatt	KW	Union National Coarse	UNC
Liquid Petroleum Gas	LPG	Union National Fine	UNF
Left	LT	Volts Alternating Current	VAC
Meter	M(meter Number)	Volts Direct Current	VDC
		With	W/(ET, IT, EIT)

Paint and Thread Sealant

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

External Engine Parts Generator Sets With Detector Control Spec A and B



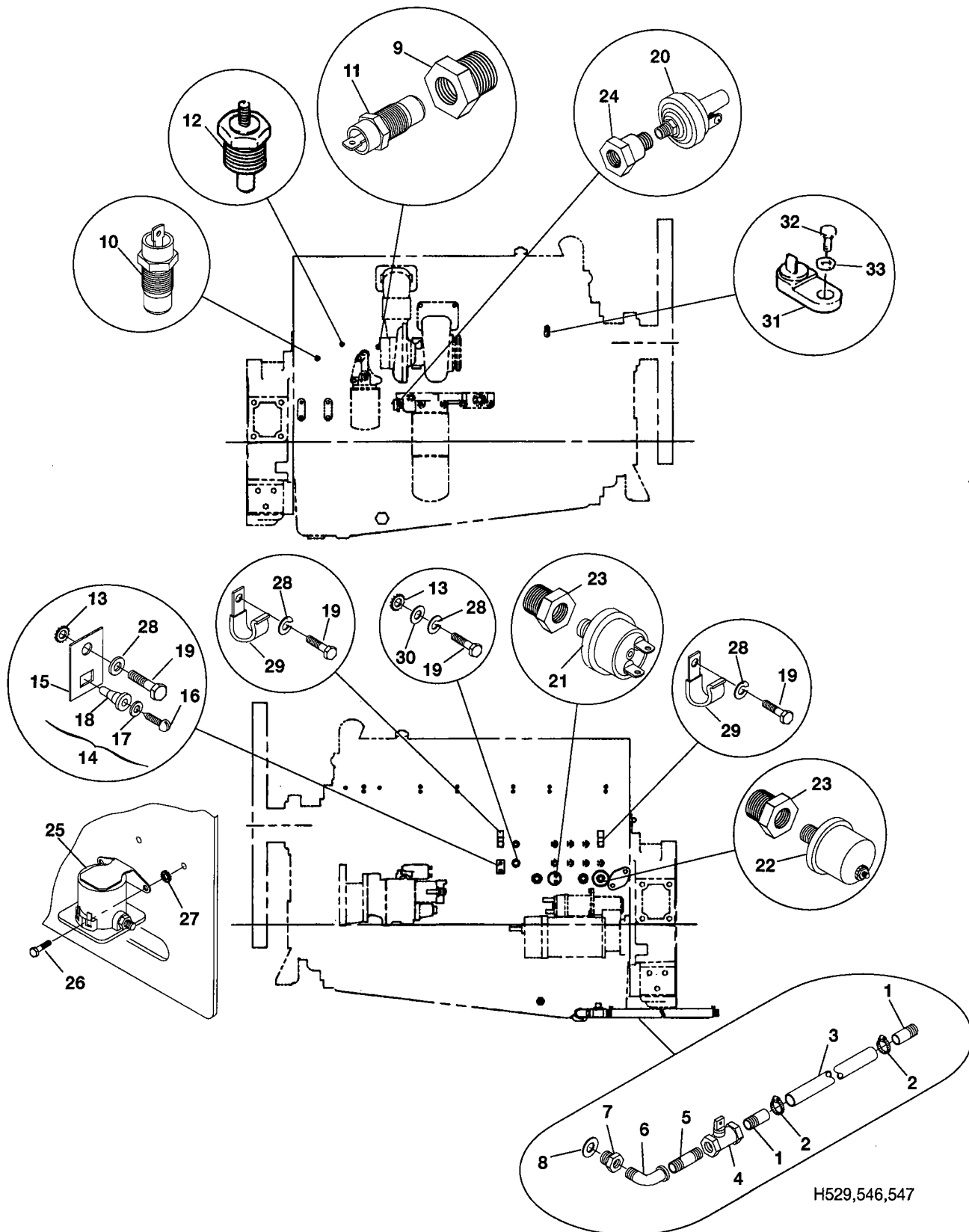
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**External Engine Parts
Generator Sets With Detector Control
Spec A and B**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0185	2	Nipple, Pipe – Half (1/2" x 1-1/2")	18	508-0015	1	*Washer, Fiber
2	503-0197	2	Clamp, Hose	19	870-0196	1	*Nut, Insulation
3	503-1013	1	Hose, Drain (3/4" ID)	20	332-1281	1	*Bracket, Terminal
4	504-0011	1	Valve, Shutoff (1/2")	21	800-2085	3	Screw, Cap – Hex Head (M10 x 20mm)
5	505-0100	2	Nipple, Pipe – Close (1/2")	22	309-0272	1	Switch, Oil Pressure (Closes At 20 Lbs Descending) (S5 – Pre-Alarm)
6	505-0040	1	Elbow, Pipe – 90 Deg (1/2")	23	309-0561	1	Switch, Oil Pressure (Closes At 14 Lbs Descending) (S1)
7	102-1335	1	Plug, Oil Drain	24	505-0151	1	Bushing, Pipe – Reducer (1/2" to 1/8")
8	508-0292	1	Washer, Sealing	25	193-0353	1	Sender, Oil Temperature (E4)
9	800-2107	1	Screw, Cap – Hex Head (M10 x 150mm)	26	193-0244	1	Sender, Oil Pressure (E1)
10	309-0269	1	Switch, Temperature – Low Engine Coolant (S4)	27	505-0007	2	Bushing, Pipe – Reducer (1/4" to 1/8")
11	505-0117	1	Bushing, Pipe – Reducer (1/2" to 3/8")	28	505-0151	1	Bushing, Pipe – Reducer (1/2" to 1/8")
12	309-0437	1	Switch, Thermostat – High Engine Coolant Temperature (Opens At 202 Deg F – Closes At 222 Deg F) (S2)	29	518-0548-08	3	Clamp
13	309-0179	1	Switch, Thermostat – High Engine Coolant Temperature (Opens At 190 Deg F – Closes At 215 Deg F) (S6 – Pre-Alarm)	30	307-2167	1	Relay, Start Solenoid (K2)
14	193-0375	1	Sender, Temperature – Water (E2)	31	821-0010	1	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
15	856-0010	3	Washer, Lock – EIT (3/8")	32	856-0006	2	Washer, Lock – EIT (1/4")
16	332-1292	1	Terminal Assembly (Includes Parts Marked *) (T26)	33	862-0013	1	Nut, Hex (1/4-20)
17	809-0036	1	*Screw, Sheet Metal – Round Head (#8 x 7/8")	34	850-2010	1	Washer, Lock – Spring (M10)

* – Parts Included In 332-1292 Terminal Assembly

External Engine Parts Generator Sets With Detector Control Spec C Through E

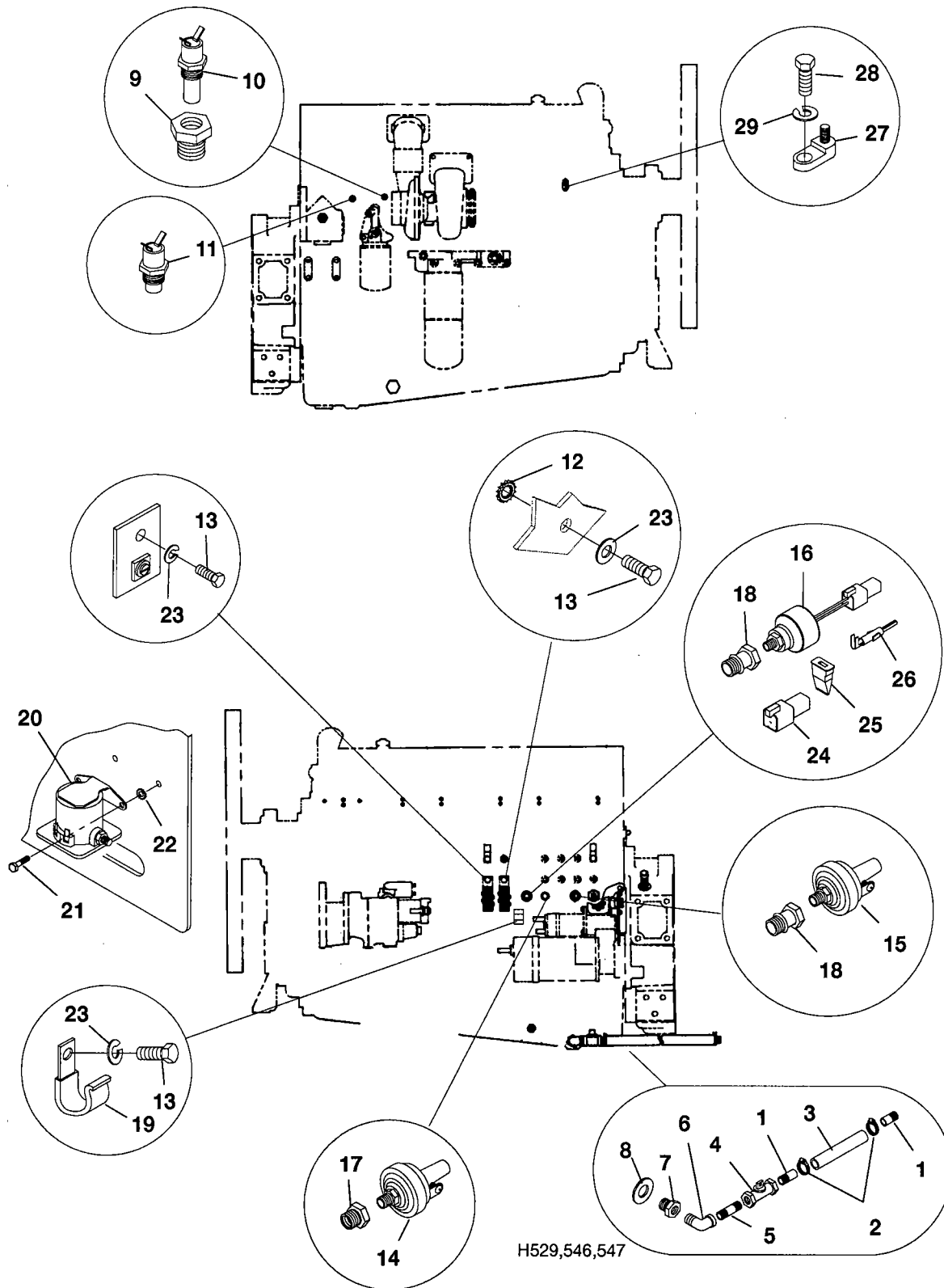


**External Engine Parts
Generator Sets With Detector Control
Spec C Through E**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0185	2	Nipple, Pipe – Half (1/2" x 1-1/2")	17	508-0015	1	*Washer, Fiber
2	503-0189	2	Clamp, Hose	18	870-0196	1	*Nut, Insulator
3	503-1013	1	Hose, Drain (3/4" ID)	19	800-2085	4	Screw, Cap – Hex Head (M10 x 20mm)
4	504-0011	1	Valve, Shutoff (1/2")	20	309-0641-07	1	Switch, Oil Pressure (Opens At 20 Lbs Decending) (S5 – Pre-Alarm)
5	505-0100	1	Nipple, Pipe – Close (1/2")	21	309-0561	1	Switch, Oil Pressure (Opens At 14 Lbs Decending) (S1)
6	505-0050	1	Elbow, Pipe – Street – 90 Deg (1/2")	22	193-0244	1	Sender, Oil Pressure (E1)
7	102-1335	1	Plug, Oil Drain	23	505-0007	2	Bushing, Pipe – Reducer (1/4" to 1/8")
8	508-0292	1	Washer, Sealing – Copper	24	502-1217-01	1	Adapter, Female – Brass
9	505-0019	1	Bushing, Pipe – Reducer (1/2" to 3/8")	25	307-2167	1	Relay, Start Solenoid (K2)
10	309-0437	1	Switch, Thermostat – High Engine Coolant Temperature (Opens At 202 Deg F – Closes At 222 Deg F) (S2)	26	821-0010	2	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
11	309-0436	1	Switch, Thermostat – High Engine Coolant Temperature (Opens At 196 Deg F – Closes At 216 Deg F) (S6 – Pre-Alarm)	27	856-0006	1	Washer, Lock – EIT (1/4")
12	193-0375	1	Sender, Water Temperature (E2)	28	850-2010	4	Washer, Lock – Spring (M10)
13	856-0010	2	Washer, Lock – EIT (3/8")	29	332-2634	2	Clamp, "J"
14	332-1292	1	Terminal Assembly (Includes Parts Marked *) (T26)	30	526-2120	1	Washer, Flat (#10)
15	332-1281	1	*Bracket, Mounting	31	309-0269	1	Switch, Temperature – Low Engine Coolant (S4)
16	809-0036	1	*Screw, Round Head – Sheet Metal (#8 x 7/8")	32	800-2107	1	Screw, Cap – Hex Head (M10 x 150mm)
				33	850-2010	1	Washer, Lock – Spring (M10)

* – Parts Included In 332-1292 Terminal Bracket Assembly

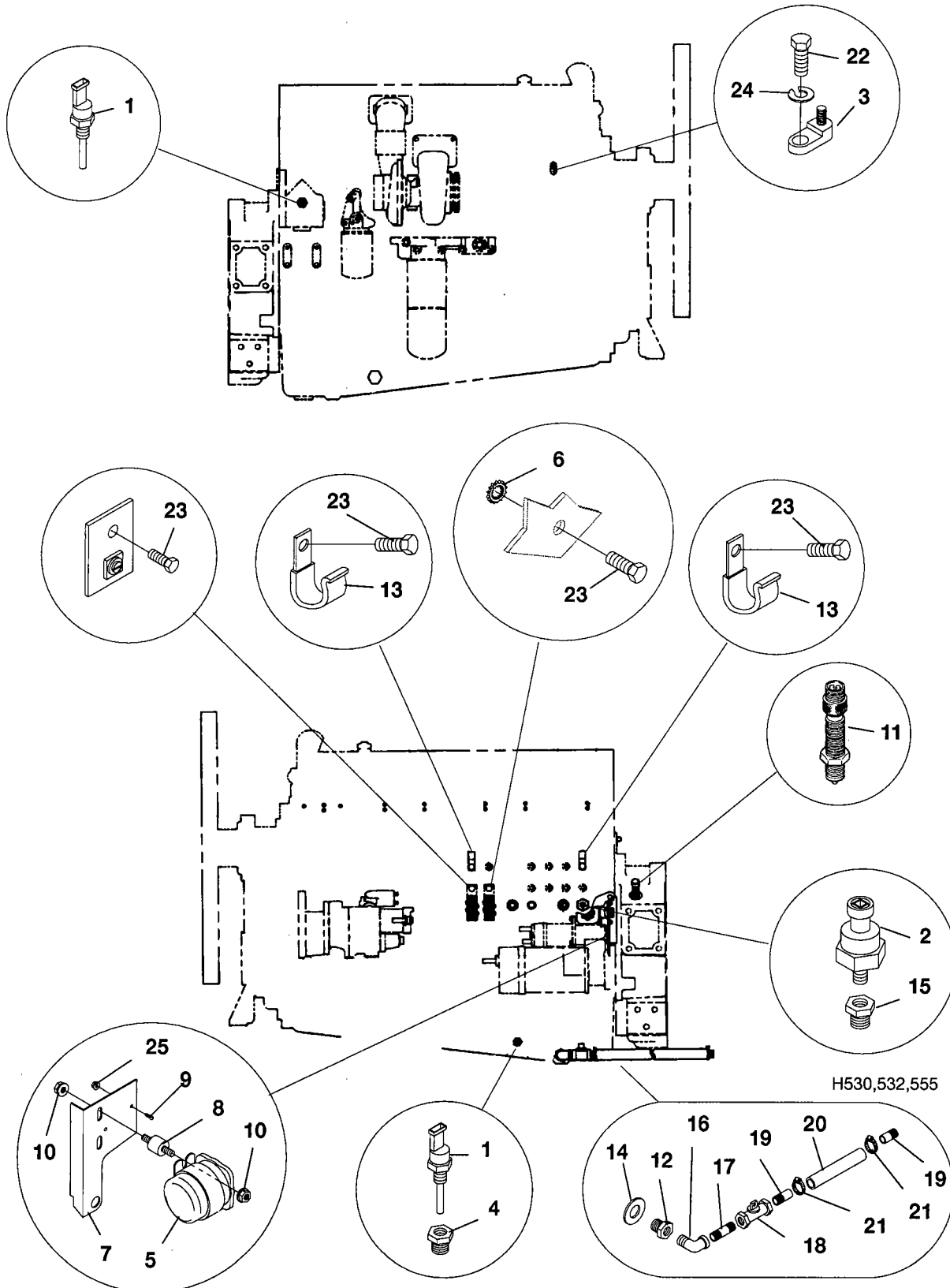
External Engine Parts Generator Sets With Detector Control Begin Spec F



**External Engine Parts
Generator Sets With Detector Control
Begin Spec F**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0185	2	Nipple, Pipe – Half (1/2" x 1-1/2")	16	193-0448	1	Sender, Oil Pressure (Includes Parts Marked *) (E1)
2	503-0189	2	Clamp, Hose	17	505-0007	1	Bushing, Pipe – Reducer (1/4" to 1/8")
3	503-1013	1	Hose, Drain (3/4" ID)	18	502-1217-01	2	Adapter, Female – Brass
4	504-0011	1	Valve, Shutoff (1/2")	19	332-2634	1	Clamp, "J"
5	505-0100	1	Nipple, Pipe – Close (1/2")	20	307-2167	1	Relay, Start Solenoid (K2)
6	505-0050	1	Elbow, Pipe – Street – 90 Deg (1/2")	21	821-0010	2	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
7	102-1335	1	Plug, Oil Drain	22	856-0006	1	Washer, Lock – EIT (1/4")
8	508-0292	1	Washer, Sealing – Copper	23	850-2010	3	Washer, Lock – Spring (M10)
9	505-0019	1	Bushing, Pipe – Reducer (1/2" to 3/8")	24	323-1549	1	*Connector, Receptacle – 4 Place
10	309-0651-01	1	Switch, Thermostat – High Engine Coolant Temperature (Opens At 202 Deg F – Closes At 222 Deg F) (S2)	25	323-1548	1	*Wedge, Receptacle
11	193-0447-01	1	Sender, Water Temperature (E2)	26	323-1492	4	*Socket, Contact
12	856-0010	1	Washer, Lock – EIT (3/8")	27	309-0269	1	Switch, Temperature – Low Engine Coolant (S4)
13	800-2085	3	Screw, Cap – Hex Head (M10 x 20mm)	28	800-2107	1	Screw, Cap – Hex Head (M10 x 150mm)
14	309-0641-07	1	Switch, Oil Pressure (Opens At 20 Lbs Decending) (S6 Pre-Alarm)	29	850-2010	1	Washer, Lock – Spring (M10)
15	309-0641-03	1	Switch, Oil Pressure (Opens At 14 Lbs Decending) (S1)	* – Parts Included In 193-0448 Oil Pressure Sender			

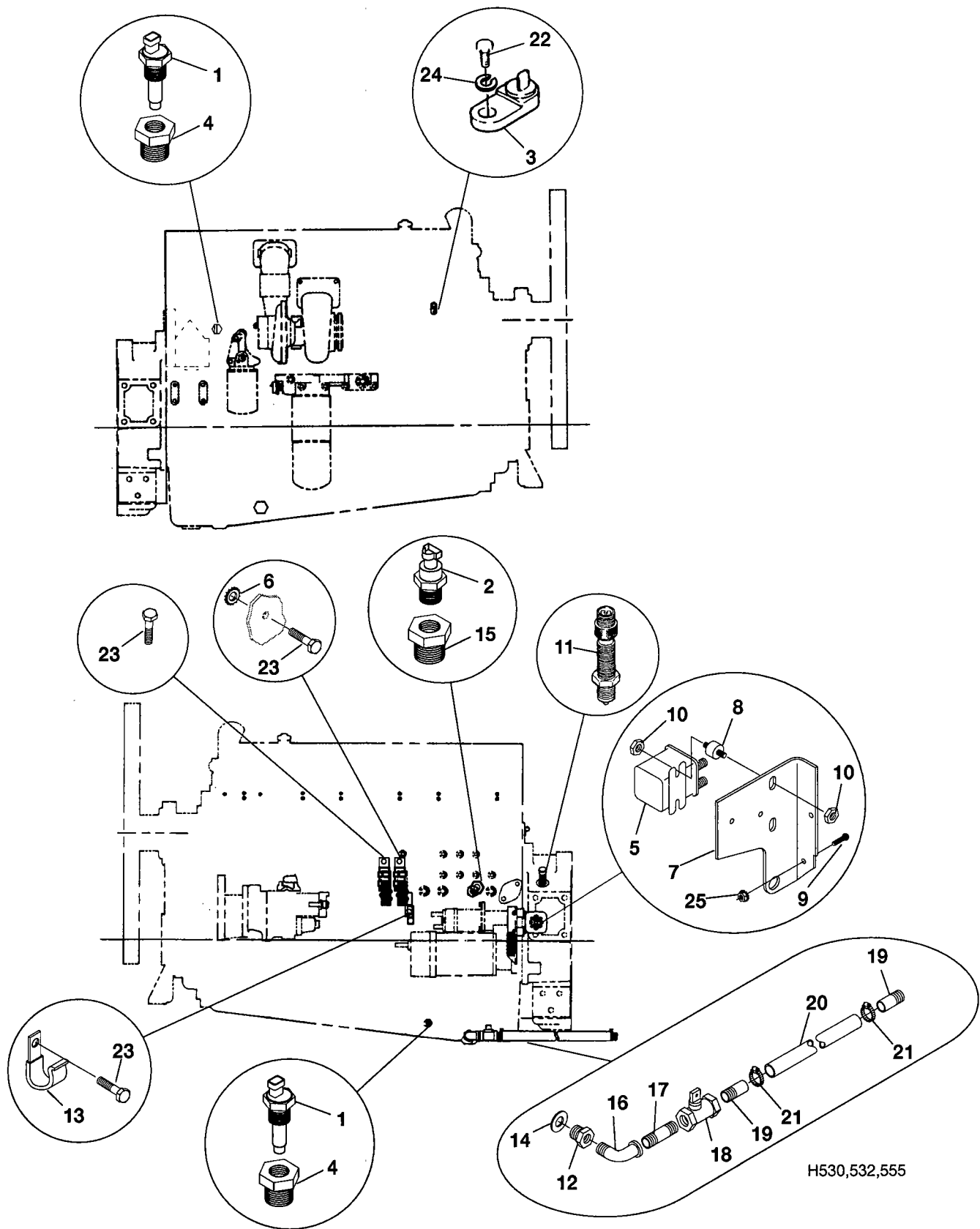
External Engine Parts **Generator Sets With PowerCommand Control** **Spec D and E**



**External Engine Parts
Generator Sets With PowerCommand Control
Spec D and E**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0432	2	Sender, Oil Temperature (E4)	15	505-0007	1	Bushing, Pipe – Reducer (1/4" to 1/8")
2	193-0444	1	Sender, Oil Pressure (S1)	16	505-0050	1	Elbow, Pipe – Street – 90 Deg (1/2")
3	309-0269	1	Switch, Temperature – Low Engine Coolant (S4)	17	505-0100	1	Nipple, Pipe – Close (1/2")
4	505-0019	1	Bushing, Pipe – Reducer (1/2" to 3/8")	18	504-0011	1	Valve, Shutoff (1/2")
5	307-2621-02	1	Solenoid, Pilot (K4)	19	505-0185	2	Nipple, Pipe – Half (1/2" x 1-1/2")
6	856-0010	1	Washer, Lock – EIT (3/8")	20	503-1013	1	Hose, Drain (3/4" ID)
7	319-2236	1	Bracket, Mounting	21	503-0189	2	Clamp, Hose
8	402-0610	2	Isolator, Vibration	22	800-2107	1	Screw, Cap – Hex Head (M10 x 150mm)
9	812-0067	2	Screw, Machine – Round Head (#6-32 x 7/8") Terminal Block Mounting	23	800-2060	4	Screw, Cap – Hex Head (M10 x 20mm)
10	870-0212	4	Nut, Locking – Hex Head (1/4-20)	24	850-2010	1	Washer, Lock – Spring (M10)
11	151-0411	1	Pickup, Magnetic	25	870-0183	2	Nut, Lock – Hex Head – W/ET Lock Washer (#6-32) Terminal Block Mounting
12	102-1335	1	Plug, Oil Drain				
13	332-2634	2	Clamp, "J"				
14	508-0292	1	Washer, Sealing – Copper				

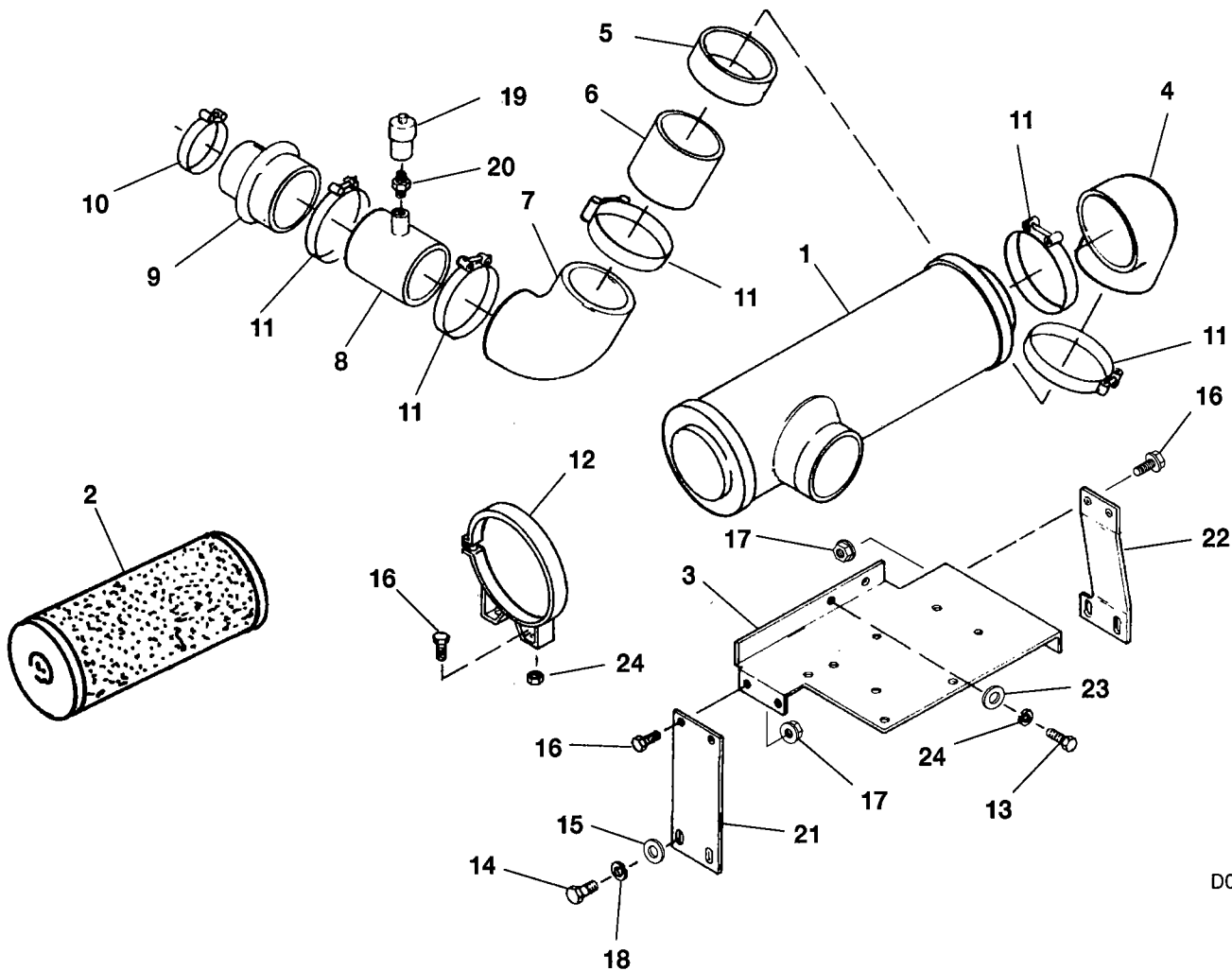
External Engine Parts **Generator Sets With PowerCommand Control** **Begin Spec F**



**External Engine Parts
Generator Sets With PowerCommand Control
Begin Spec F**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0432	2	Sender, Oil Temperature (E2 Engine Block, E4 Oil Pan)	14	508-0292	1	Washer, Sealing – Copper
2	193-0444	1	Sender, Oil Pressure (S1)	15	502-1217-01	1	Adapter, Female – Brass
3	309-0269	1	Switch, Temperature – Low Engine Coolant (S4)	16	505-0050	1	Elbow, Pipe – Street – 90 Deg (1/2")
4	505-0019	2	Bushing, Pipe – Reducer (1/2" to 3/8")	17	505-0100	1	Nipple, Pipe – Close (1/2")
5	307-2621-02	1	Solenoid, Pilot (K4)	18	504-0011	1	Valve, Shutoff (1/2")
6	856-0010	1	Washer, Lock – EIT (3/8")	19	505-0185	2	Nipple, Pipe – Half (1/2" x 1-1/2")
7	319-2236	1	Bracket, Mounting	20	503-1013	1	Hose, Drain (3/4" ID)
8	402-0610	2	Isolator, Vibration	21	503-0189	2	Clamp, Hose
9	812-0067	2	Screw, Machine – Round Head (#6-32 x 7/8") Terminal Block Mounting	22	800-2107	1	Screw, Cap – Hex Head (M10 x 150mm)
10	870-0212	4	Nut, Locking (1/4-20)	23	800-2060	3	Screw, Cap – Hex Head (M10 x 20mm)
11	151-0411	1	Pickup, Magnetic	24	850-2010	1	Washer, Lock – Spring (M10)
12	102-1335	1	Plug, Oil Drain	25	870-0183	2	Nut, Lock – Hex Head – W/ET Lock Washer (#6-32)
13	332-2634	1	Clamp, "J"				Terminal Block Mounting

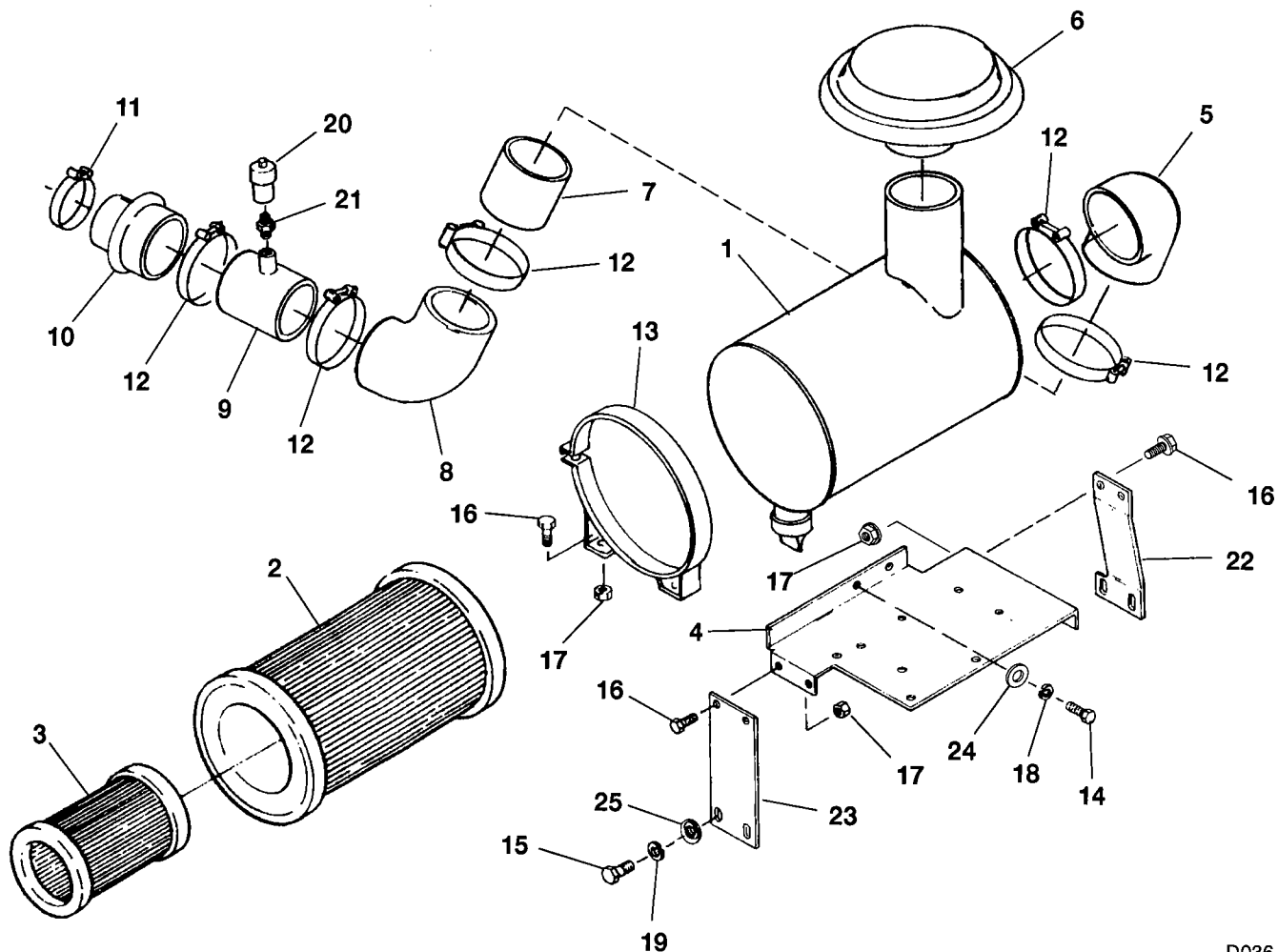
Air Cleaner Standard



D041

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2634	1	Cleaner, Air (Includes Element)	14	800-0130	4	Screw, Cap -- Hex Head (5/8-11 x 1")
2	140-2635	1	Element	15	526-0112	4	Washer, Flat (5/8")
3	140-2632	1	Bracket, Mounting	16	821-0029	8	Screw, Self-Locking -- Hex Washer Head (3/8-16 x 3/4")
4	503-1461	1	Elbow, Hose -- 90 Deg	17	870-0281	8	Nut, Hex -- Locking (3/8-16)
5	503-1720	1	Insert, Reducer	18	850-0070	4	Washer, Lock -- Spring (5/8")
6	140-2633-02	1	Tube, Air Inlet	19	140-1548	1	Indicator, Service
7	503-1788	1	Elbow, Hose -- 68 Deg	20	140-1260	1	Fitting, Service Indicator
8	140-2607-03	1	Tube, Air Inlet	21	140-2655	1	Bracket, Mounting
9	140-1899	1	Tube, Reducer (5-1/2" to 4")	22	140-2656	1	Bracket, Mounting
10	503-1870-08	1	Clamp, Hose	23	526-2140	2	Washer, Flat (M12)
11	503-1870-11	5	Clamp, Hose	24	850-2012	2	Washer, Lock -- Spring (M12)
12	140-1599	2	Band, Mounting				
13	800-2111	2	Screw, Cap -- Hex Head (M12 x 25mm)				

Air Cleaner Heavy Duty

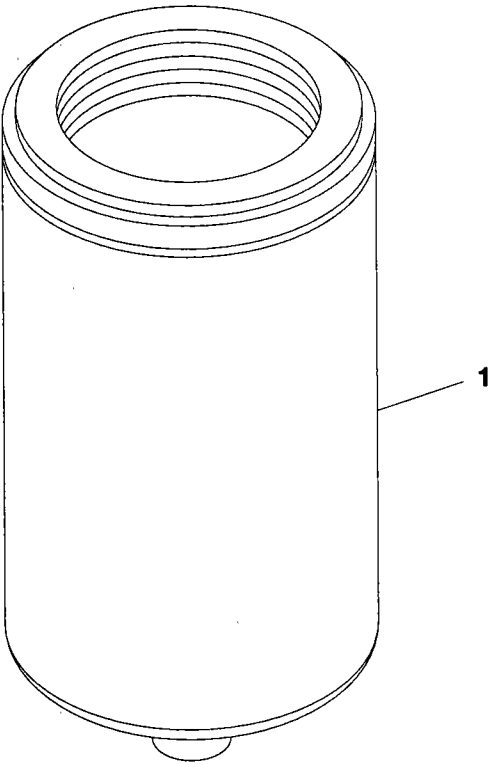


D036

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2637	1	Cleaner, Air (Includes Elements)
2	140-2636	1	Element, Filter (Outer)
3	140-2638	1	Element, Filter (Inner)
4	140-2632	1	Bracket, Mounting
5	140-1415	1	Elbow, Hose - 90 Deg
6	140-1347	1	Hood, Air Inlet
7	140-2633-01	1	Tube, Air Inlet
8	503-1788	1	Elbow, Hose - 68 Deg
9	140-2607-03	1	Tube, Air Inlet
10	140-1899	1	Tube, Reducer (5-1/2" to 4")
11	503-1870-07	1	Clamp, Hose
12	503-1870-11	5	Clamp, Hose
13	140-0757	2	Band, Mounting
14	800-2111	2	Screw, Cap - Hex Head (M12 x 25mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
15	800-0130	4	Screw, Cap - Hex Head (5/8-11 x 1")
16	821-0029	8	Screw, Self-Locking - Hex Washer Head (3/8-16 x 3/4")
17	870-0281	8	Nut, Hex - Locking (3/8-16)
18	850-2012	2	Washer, Lock - Spring (M12)
19	850-0070	4	Washer, Lock - Spring (5/8")
20	140-1548	1	Indicator, Service
21	140-1260	1	Fitting, Service Indicator
22	140-2656	1	Bracket, Mounting
23	140-2655	1	Bracket, Mounting
24	526-2140	2	Washer, Flat (M12)
25	526-0112	4	Washer, Flat (5/8")

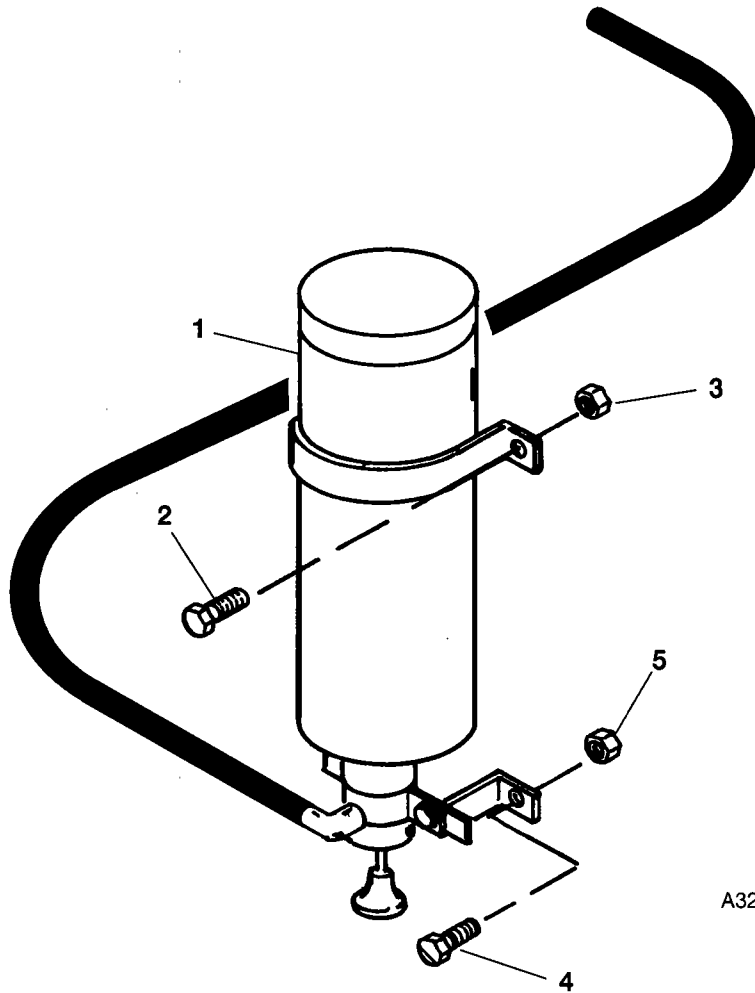
Fuel/Water Separator



C127

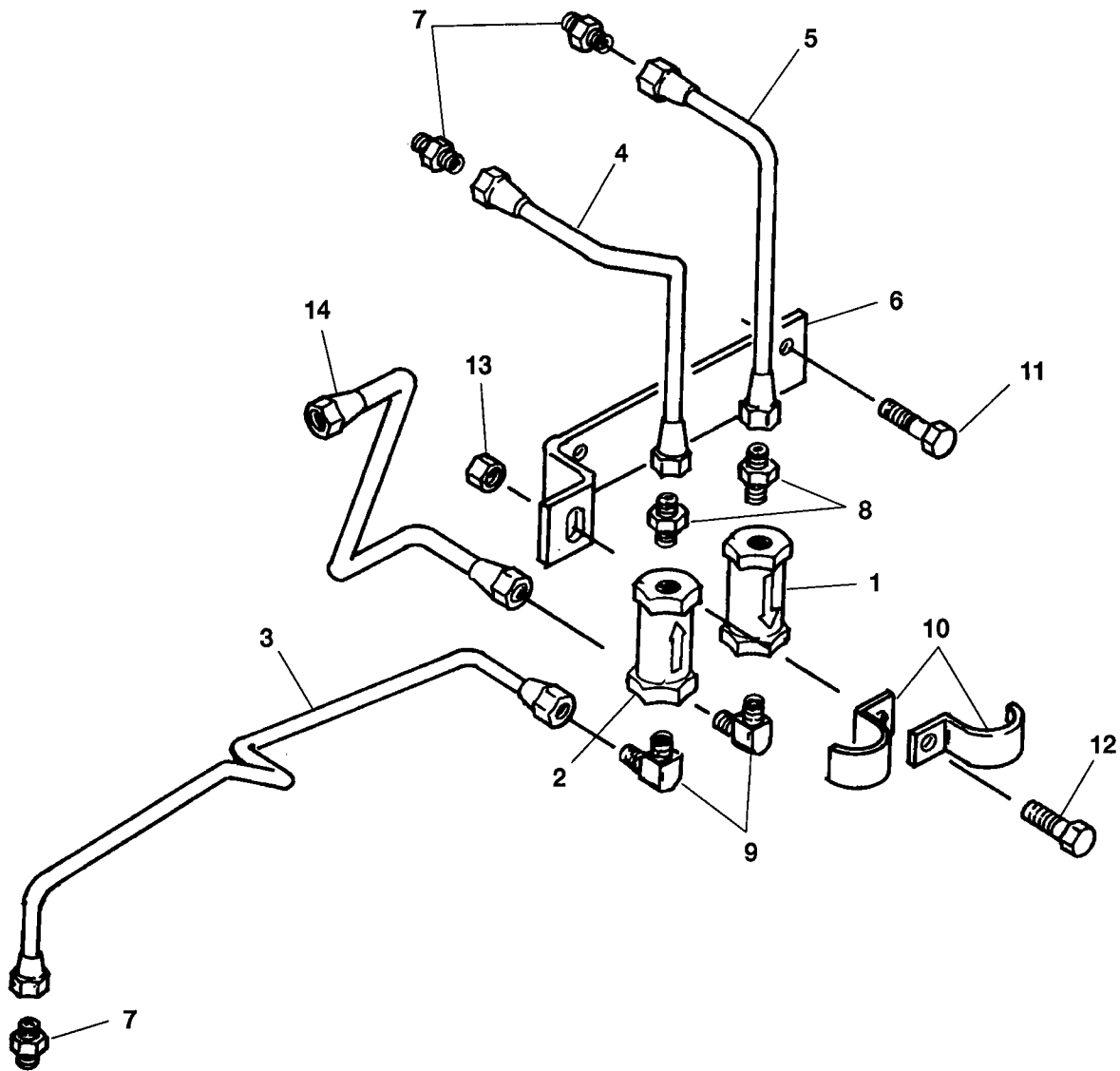
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2278	1	Separator, Fuel/Water				

Starting Aid



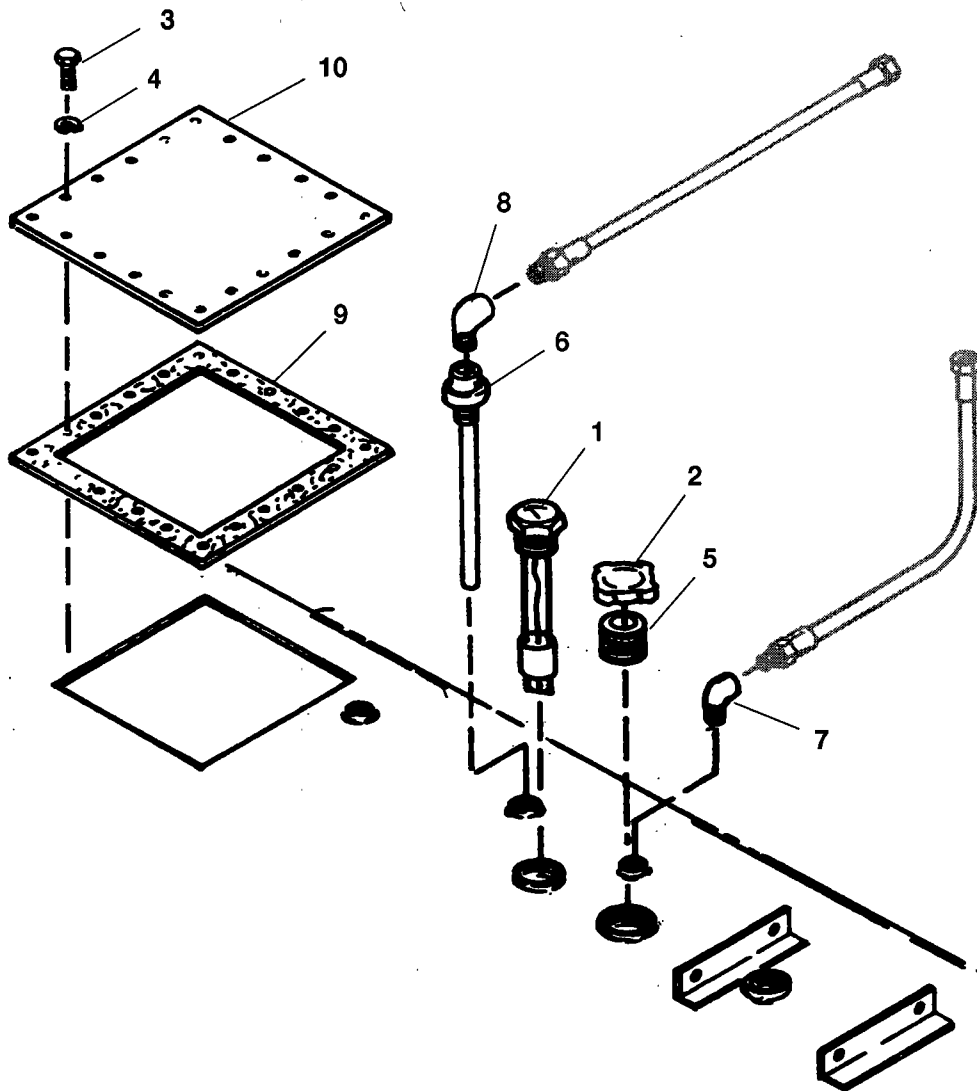
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2306-01	1	Aid, Starting (Includes Valve Assembly, 48" Nylon Tube, Cylinder Clamp, Atomizer, Instructions and Label)	3	870-0257	2	Nut, Hex – Locking (5/16-18)
2	821-0016	2	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")	4	821-0018	2	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")
				5	870-0212	2	Nut, Hex – Locking (1/4-20)

Fuel Check Valve Spec A and B



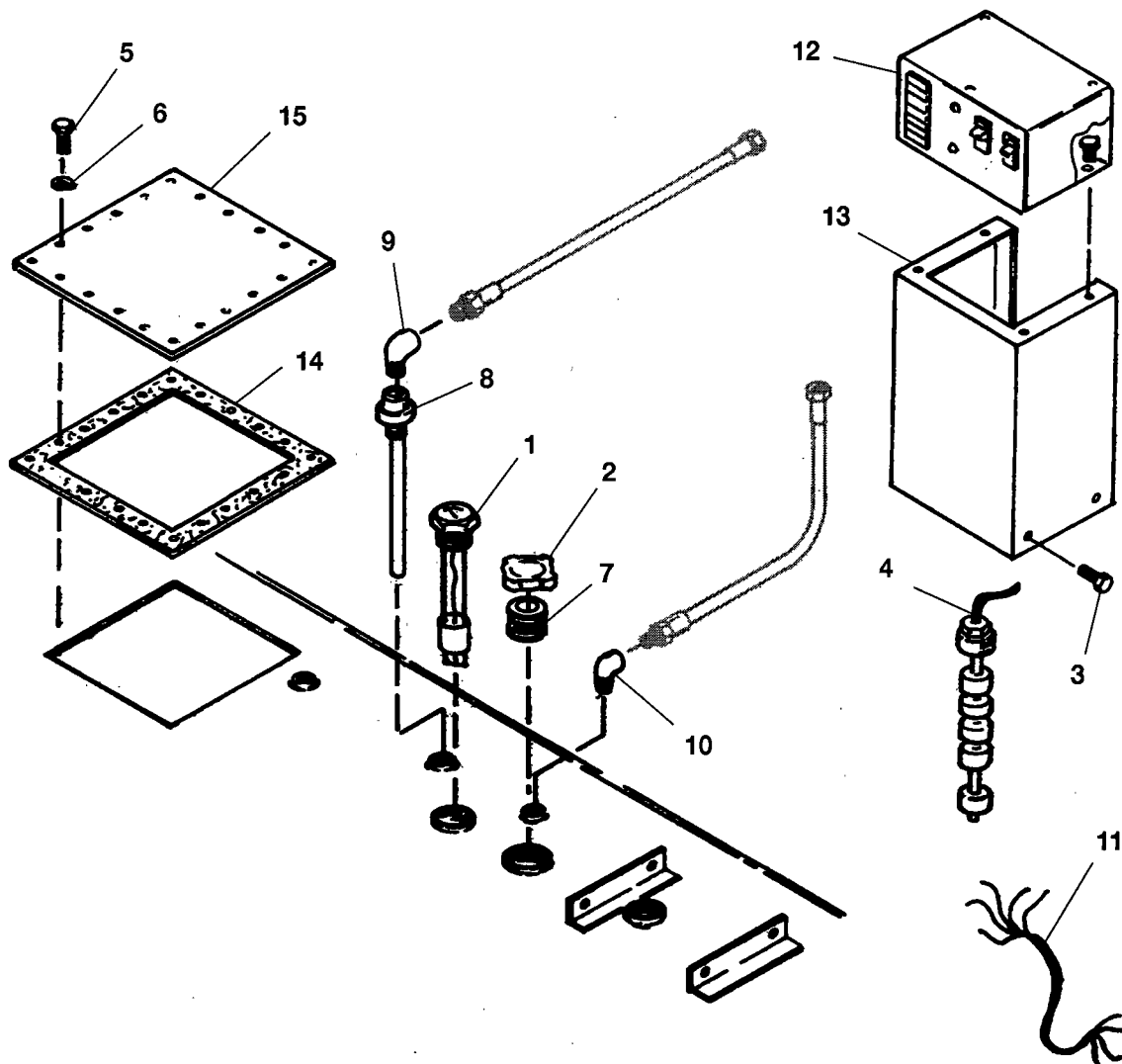
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2167-03	1	Valve, Check (Fuel Drain)	9	502-1072-16	2	Elbow, Male Union
2	149-2167-04	1	Valve, Check (Fuel Supply)	10	518-0548-02	2	Clip, Retainer
3	149-2343	1	Tube, Fuel - Supply	11	821-2060	2	Screw, Self-Locking - Hex Washer Head (M10 x 20mm)
4	149-2342	1	Tube, Fuel - Supply	12	821-0034	1	Screw, Self-Locking - Hex Washer Head (3/8-16 x 5/8")
5	149-2344	1	Tube, Fuel - Drain	13	870-0281	1	Nut, Hex - Locking (3/8-16)
6	149-2345	1	Bracket, Mounting	14	149-2355	1	Tube, Fuel - Drain
7	502-0018	3	Connector, Inverted Male				
8	502-1062-11	2	Union, Male				

**Skid Tank – Rugged
Without Control
Spec A and B**



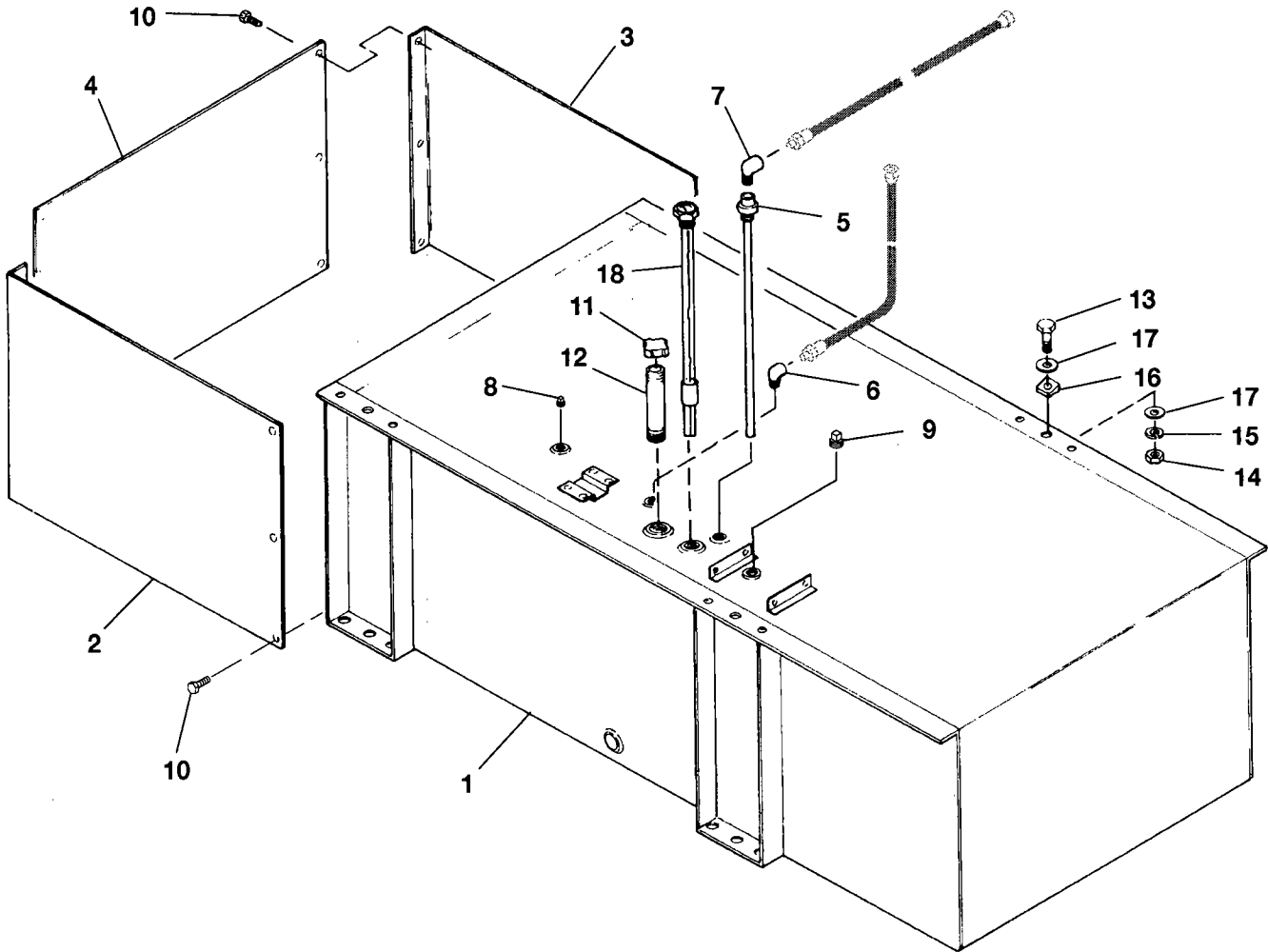
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	415-0565-09	1	Gauge, Liquid Level	7	505-0120	1	Elbow, Pipe – Street (3/8" x 90 Deg)
2	159-1208	1	Cap, Fuel	8	505-0050	1	Elbow, Pipe – Street (1/2" x 90 Deg)
3	813-0098	20	Screw, Machine – Round Head (#10-32 x 3/8")	9	415-0687	1	Gasket, Cover
4	850-0050	20	Washer, Lock – Spring (#10)	10	415-0688	1	Cover, Tank Access
5	505-0172	1	Nipple, Pipe – Close (2")				
6	415-0566-16	1	Pipe, Suction				

Skid Tank – Rugged With Control Spec A and B



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	415-0565-09	1	Gauge, Liquid Level	10	505-0120	1	Elbow, Pipe – Street (3/8" x 90 Deg)
2	159-1208	1	Cap, Fuel	11	338-2511	1	Harness, Wiring – Control
3	821-0018	8	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")	12	625-2141-01	1	Control, Fuel Tank (See Separate Page For Components)
4	308-0913-07	1	Switch, Float (5 Float)	13	319-0863-01	1	Bracket, Mounting
5	813-0098	20	Screw, Machine – Round Head (#10-32 x 3/8")	14	415-0687	1	Gasket, Cover
6	850-0050	20	Washer, Lock – Spring (#10)	15	415-0688	1	Cover, Tank Access
7	505-0172	1	Nipple, Pipe – Close (2")				
8	415-0566-16	1	Pipe, Suction				
9	505-0050	1	Elbow, Pipe – Street (1/2" x 90 Deg)				

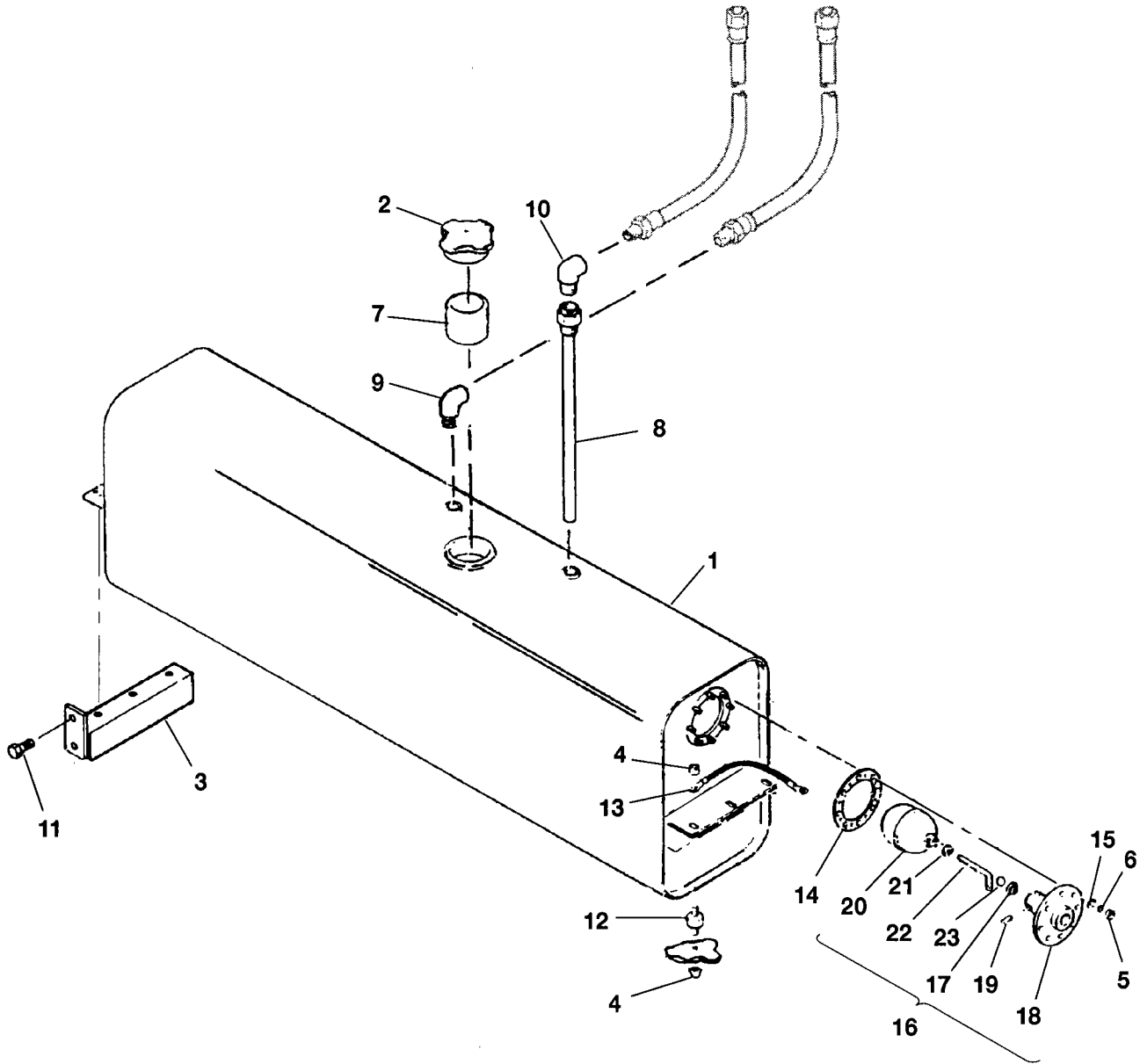
Subbase Fuel Tank



C150

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	159-1300	1	Tank, Fuel (169 Gallon)	10	821-5002-04	12	Screw, Self-Locking – Hex Washer Head – W/Captive Washer (1/4-20 x 5/8")
2	159-1249-01	1	Wrapper, Fuel Tank (Left Side)	11	159-1208-01	1	Cap, Fuel
3	159-1249-02	1	Wrapper, Fuel Tank (Right Side)	12	505-0748	1	Nipple, Pipe (2" x 9")
4	159-1244	1	Cap, End – Fuel Tank	13	800-0135	4	Screw, Cap – Hex Head (5/8-11 x 2-1/4")
5	415-0566-09	1	Pipe, Suction	14	862-0007	4	Nut, Hex (5/8-11)
6	505-0120	1	Elbow, Pipe – Street – 90 Deg (3/8")	15	850-0070	4	Washer, Lock – Spring (5/8")
7	505-0050	1	Elbow, Pipe – Street – 90 Deg (1/2")	16	403-3362	4	Washer, Bevel
8	505-0110	1	Plug, Pipe – Square Head (3/8")	17	526-0112	4	Washer, Flat (5/8")
9	505-0359	1	Plug, Pipe – Square Head (1-1/4")	18	415-0565-09	1	Gauge, Liquid Level

Day Tank Without Pump and Control



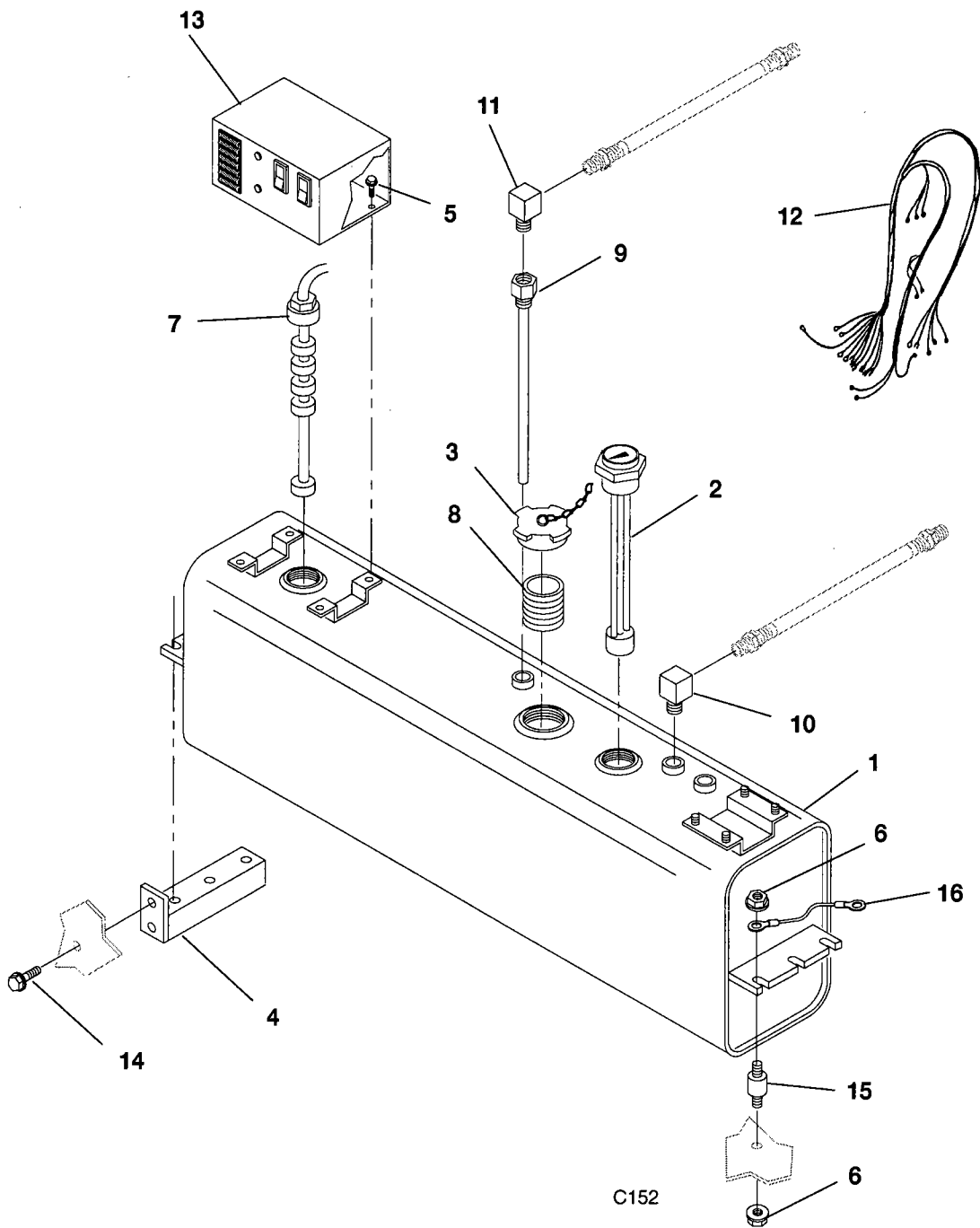
C153

Day Tank Without Pump and Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	415-0728	1	Tank, Day (19 Gallons)	13	337-2402	1	Cable, Ground (5-1/2")
2			Cap, Fuel	14	415-0660	1	Gasket
	159-1208	1	Spec A,B	15	526-0008	8	Washer, Flat (#10)
	159-1208-01	1	Begin Spec C	16	415-0657	1	Valve Assembly, Float
3	159-1299	1	Bracket, Mounting				(Includes Parts Marked *)
4	870-0212	9	Nut, Locking - Hex Head (1/4-20)	17	415-0656-21	1	* Seal, Ring
5	867-0028	8	Nut, Hex (#10-32)	18	415-0650-01	1	* Body, Valve
6	853-1008	8	Washer, Lock - W/ET (#10)	19	415-0651-19	1	* Pin, Roll
7	505-0172	1	Nipple, Pipe - Close (2")	20	415-0652	1	* Ball, Float
8	415-0566-15	1	Pipe, Suction	21	864-0011	1	* Nut, Jam (1/4-20)
9	505-0120	1	Elbow, Street - 90 Deg (3/8")	22	415-0654	1	* Arm, Float
10	505-0050	1	Elbow, Street - 90 Deg (1/2")	23	415-0655	1	* Ball, Steel
11	821-0030	2	Screw, Self-Locking - Hex Washer Head (3/8-16 x 1")				
12	402-0610	6	Isolator, Vibration				

* - Parts Included in 415-0657 Float Valve Assembly

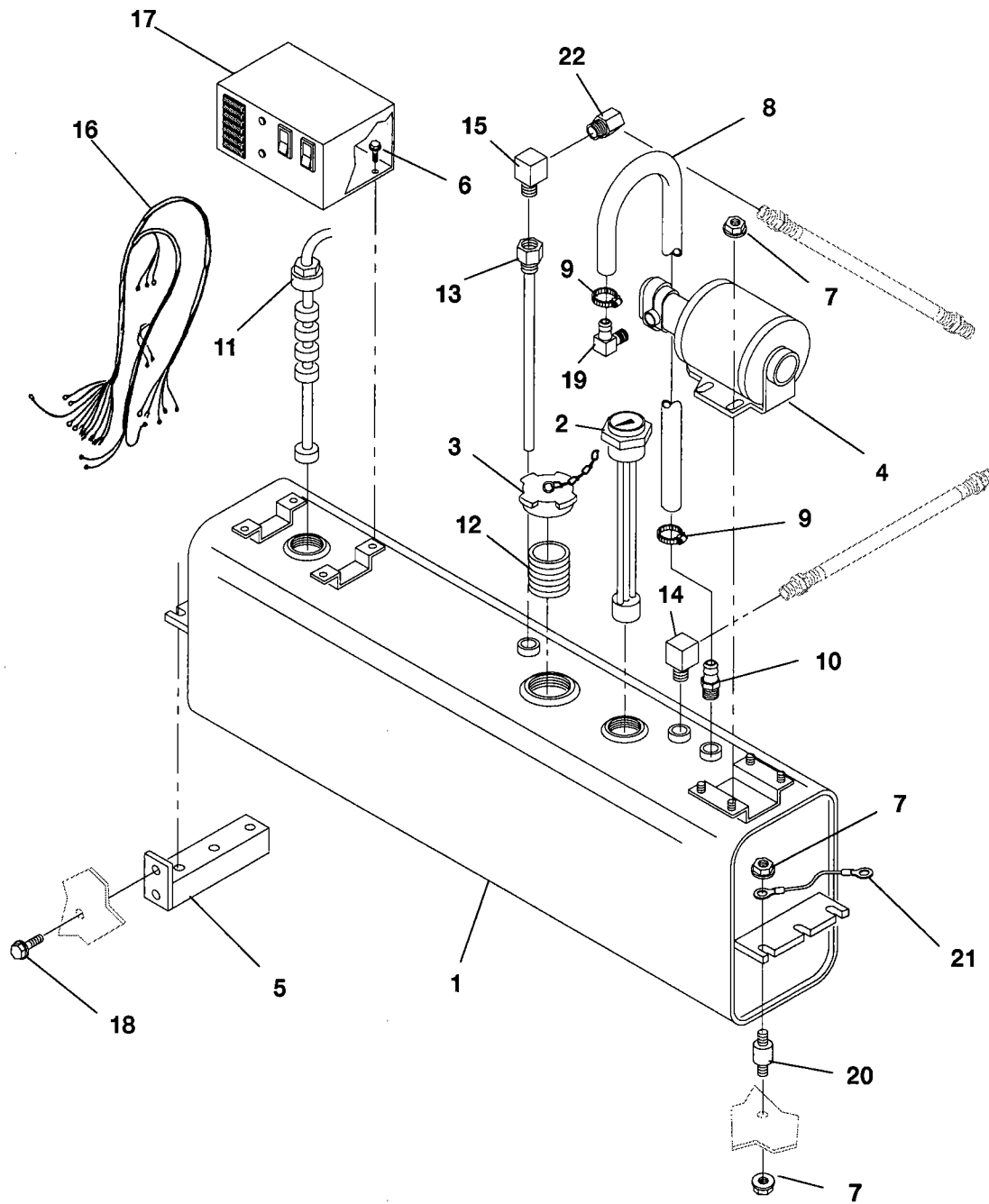
Day Tank With Control



Day Tank With Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	415-0727	1	Tank, Day (19 Gallons)	10	505-0120	1	Elbow, Pipe – Street (3/8" x 90 Deg)
2	415-0565-15	1	Gauge, Liquid Level	11	505-0050	1	Elbow, Pipe – Street (1/2" x 90 Deg)
3	159-1208	1	Cap, Fuel Spec A,B	12	338-2809	1	Harness, Wiring – Fuel Tank Control to Starter (2 Wire, 70")
	159-1208-01	1	Begin Spec C	13	625-2141-01	1	Control, Fuel Tank (See Separate Page For Components)
4	159-1299	1	Bracket, Mounting	14	821-0030	2	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")
5	821-5002-04	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")	15	402-0610	6	Isolator, Vibration
6	870-0212	9	Nut, Locking – Hex Head (1/4-20)	16	337-2402	1	Cable, Ground (5-1/2")
7	308-0913-06	1	Switch, Float (5 Float)				
8	505-0172	1	Nipple, Pipe – Close (2")				
9	415-0566-15	1	Pipe, Suction				

Day Tank With Pump and Control

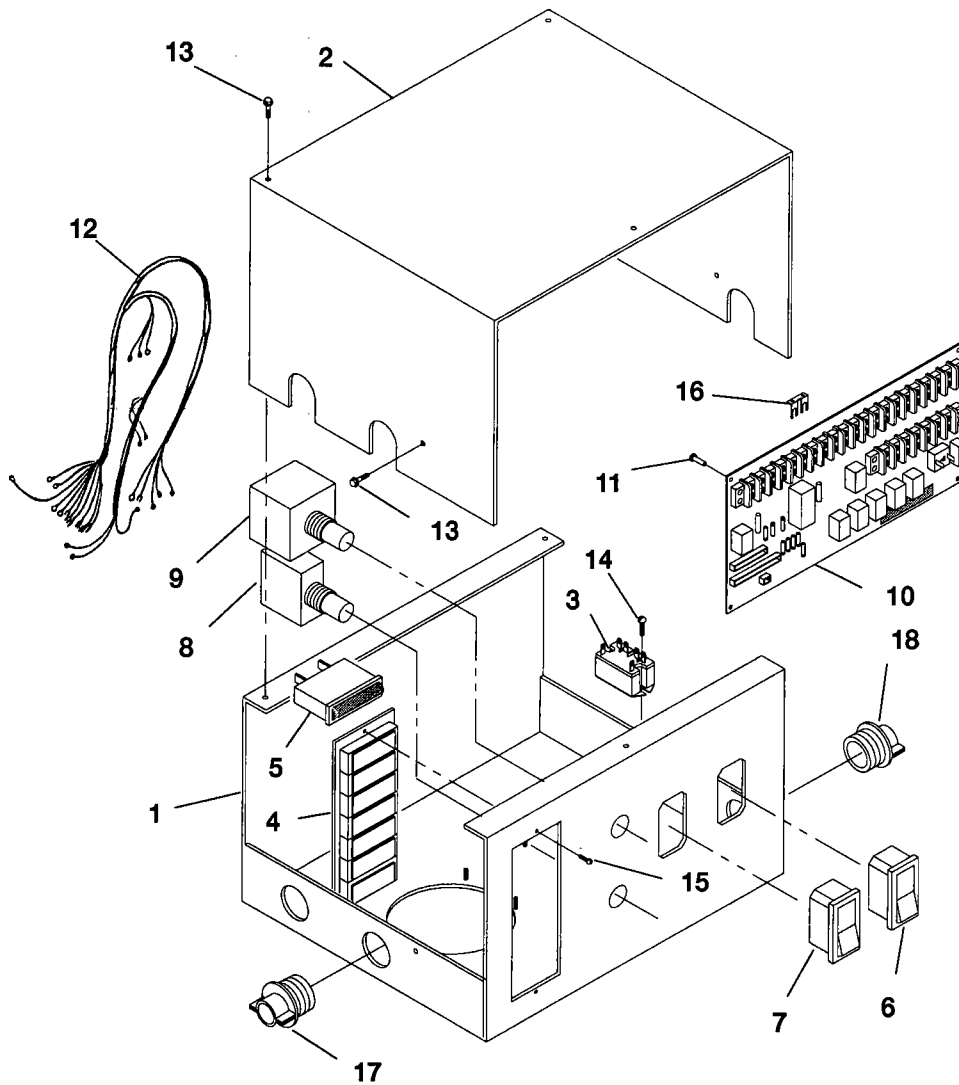


C024

Day Tank With Pump and Control

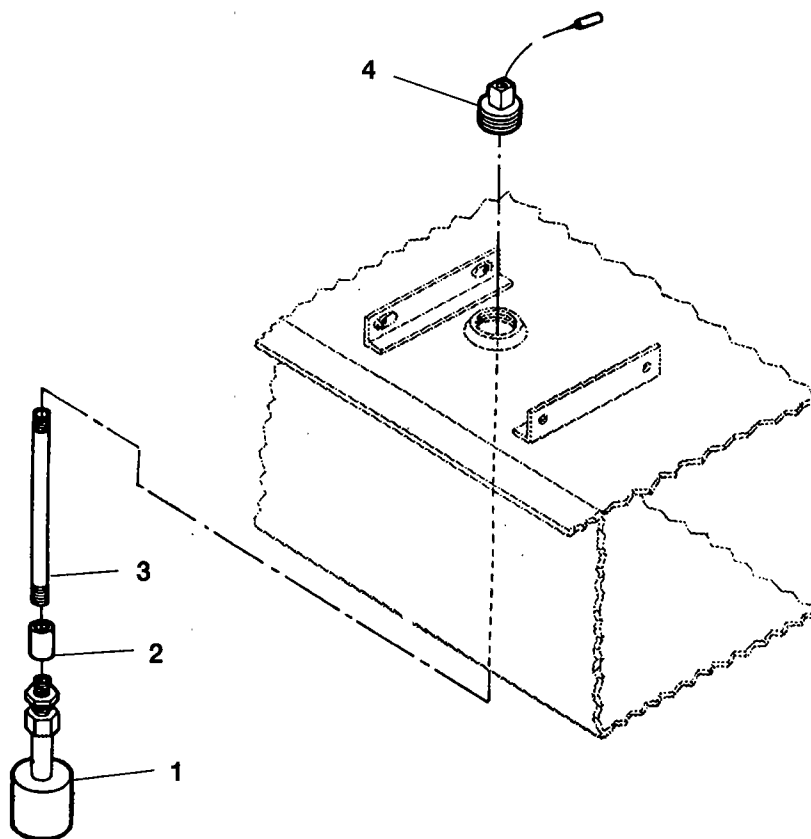
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	415-0727	1	Tank, Day (19 Gallons)	10	502-0943	1	Connector, Hose
2	415-0565-15	1	Gauge, Liquid Level	11	308-0913-06	1	Switch, Float (5 Float)
3			Cap, Fuel	12	505-0172	1	Nipple, Pipe – Close (2")
	159-1208	1	Spec A,B	13	415-0566-15	1	Pipe, Suction
	159-1208-01	1	Begin Spec C	14	505-0120	1	Elbow, Pipe – Street (3/8" x 90 Deg)
4	399-0117	1	Pump, Fuel Transfer (Includes Coupler) (P103)	15	505-0050	1	Elbow, Pipe – Street (1/2" x 90 Deg)
	399-0121	1	Kit, Repair – Fuel Tank Pump (Includes Lip Seal, Bearings, Gasket, Drive Gear, Idle Gear and Coupler) (Not Illustrated)	16			Harness, Wiring
					338-2800	1	Fuel Transfer Pump to Fuel Tank Control (5 Wire, 49-1/2")
	399-0122	1	Coupler, Pump (Drive Piece Between Motor and Pump) (Not Illustrated)		338-2809	1	Fuel Tank Control to Starter (2 Wire, 70")
	399-0123	1	Pump (Not Illustrated)	17	625-2141-01	1	Control, Fuel Tank (See Separate Page For Components)
	399-0124	1	Motor (Not Illustrated)				
5	159-1299	1	Bracket, Mounting	18	821-0030	2	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")
6	821-5002-04	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")	19	502-0942	1	Elbow, Hose – Brass – Barbed
7	870-0212	13	Nut, Locking – Hex Head (1/4-20)	20	402-0610	6	Isolator, Vibration
8	503-1660-04	1	Hose, Fuel (5/8" ID x 18")	21	337-2402	1	Cable, Ground (5-1/2")
9	503-0183	2	Clamp, Hose	22	505-0248	1	Elbow, Pipe – Street (1/2" x 45 Deg)

Fuel Tank Control



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

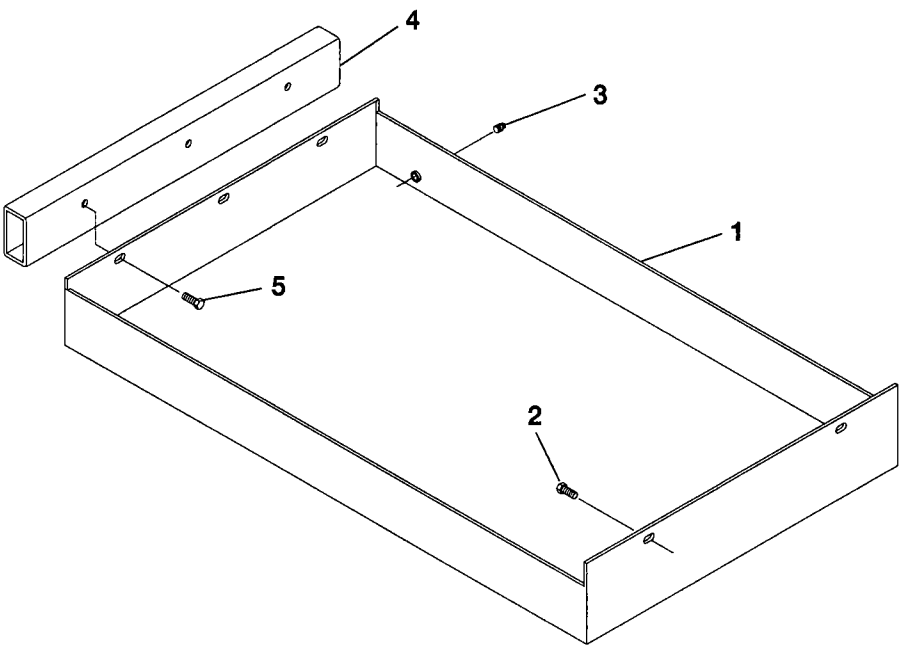
Low Fuel Alarm



C157

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	308-0963-01	1	Switch, Basin	4	505-1050	1	Plug, Pipe – Square Head (1-1/4")
2	505-0026	1	Coupling, Pipe (1/8")				
3	505-1458-04		Nipple, Pipe (1/8")				

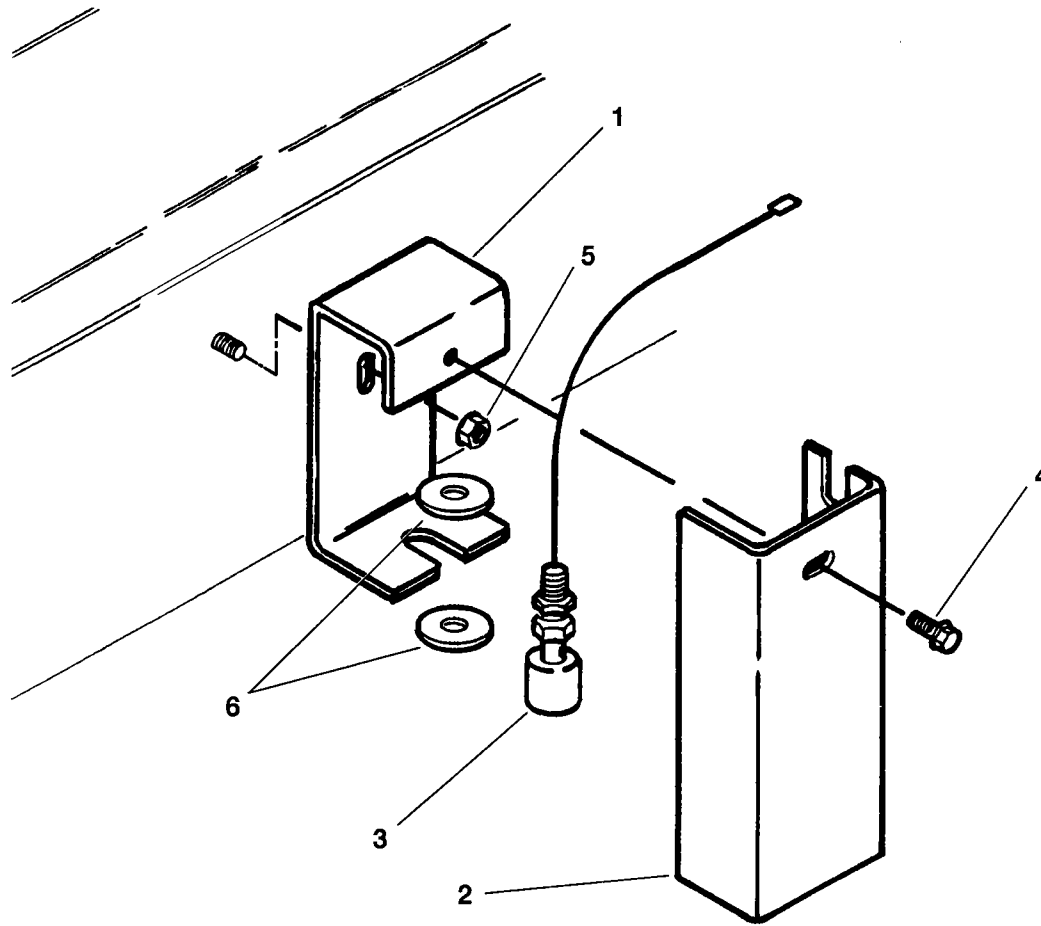
Rupture Basin



C142

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	159-1390	1	Basin, Rupture	4	415-0806	1	Spacer, Mounting
2	815-0236	2	Screw, Cap - Hex Head - Thread Forming (5/16-18 x 5/8")	5	815-0836	3	Screw, Cap - Hex Head - Thread Forming (5/16-18 x 1-1/2")
3	505-0055	1	Plug, Pipe - Square Head (1/4")				

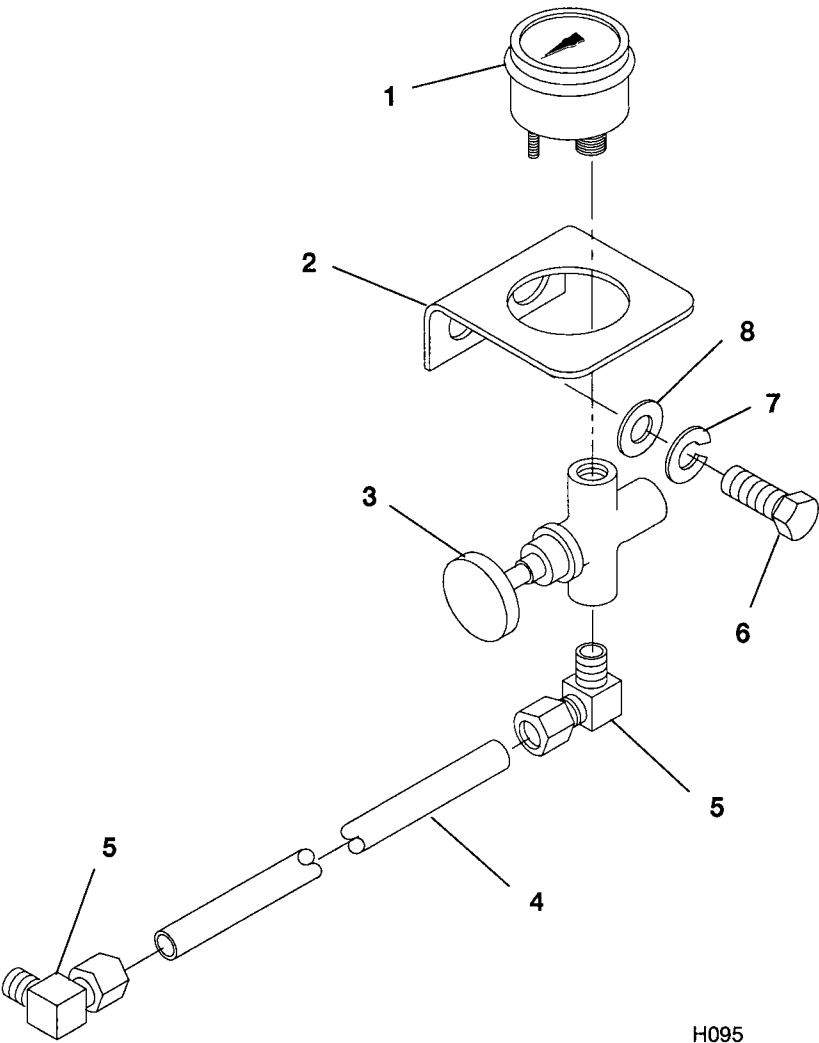
Float Switch



C158

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

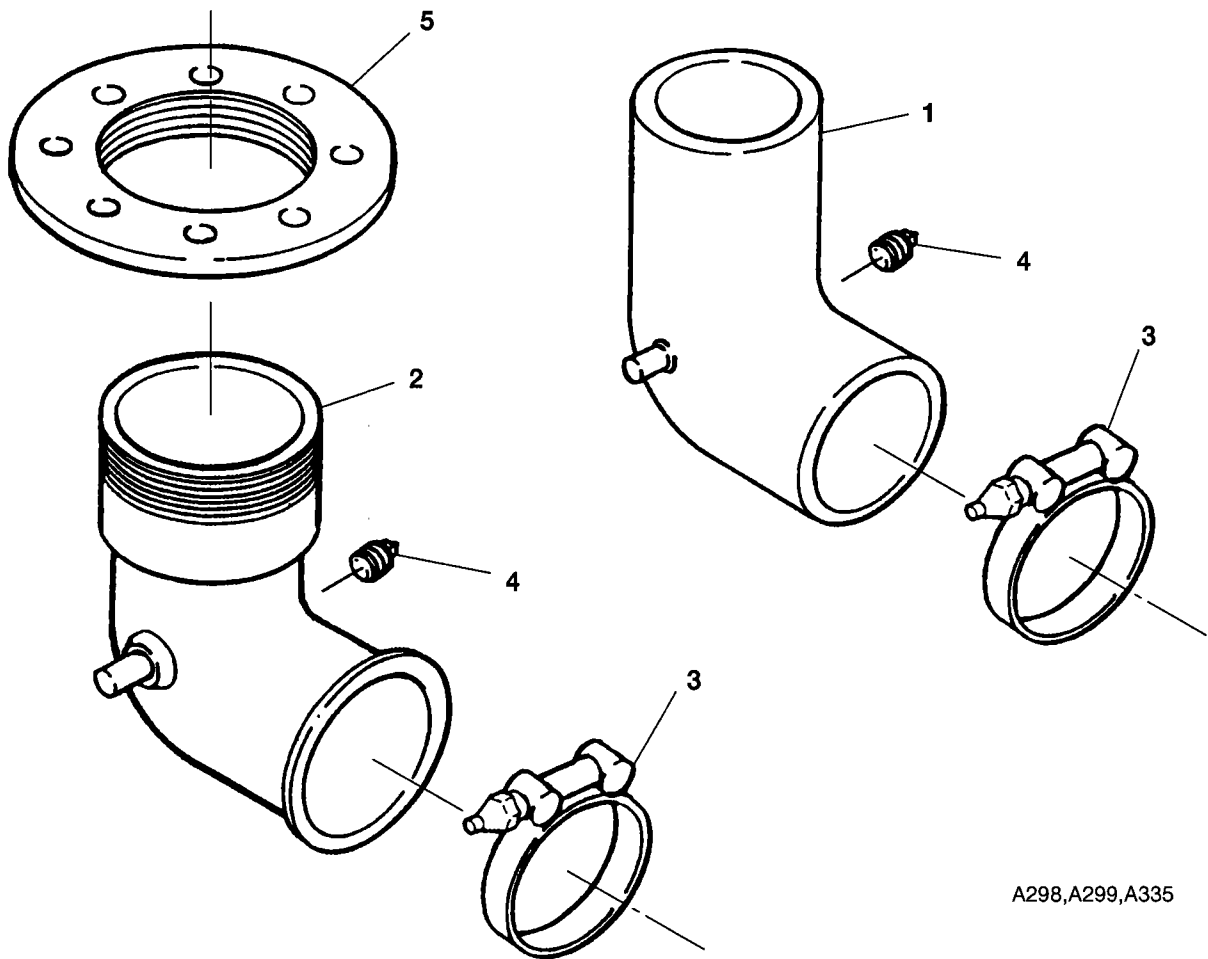
Fuel Pressure Gauge



H095

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0128	1	Gauge, Fuel Pressure (0-200 Lbs) (Includes Mounting Hardware)	5	502-0034	2	Elbow, Male - Compression
2	193-0029	1	Bracket, Mounting	6	800-2085	1	Screw, Cap - Hex Head (M10 x 20mm)
3	504-0064	1	Valve	7	850-2010	1	Washer, Lock - Spring (M10)
4	370-4003	1	Tube, Copper (7')	8	526-0029	1	Washer, Flat (3/8")

Exhaust Elbow

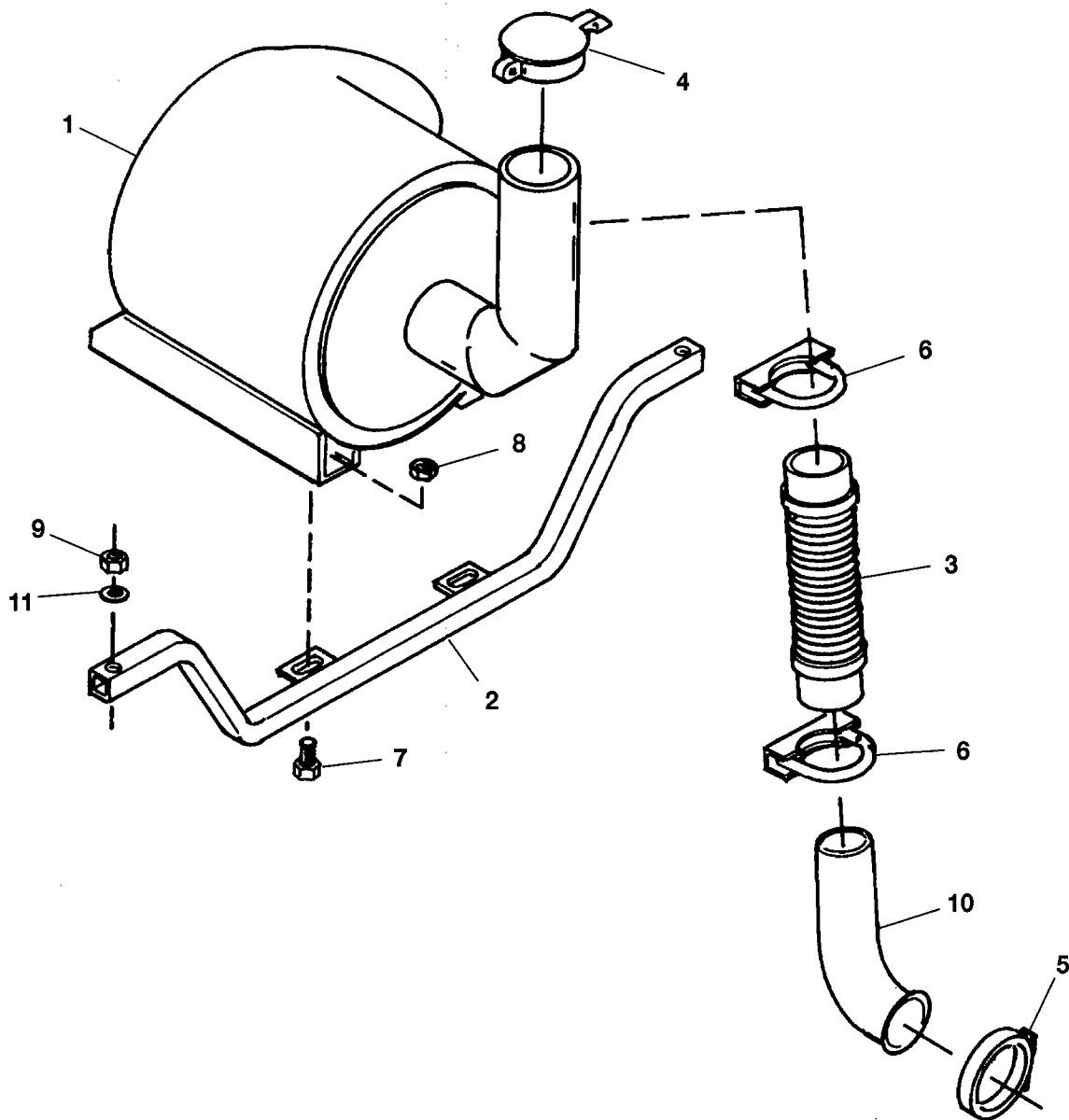


A298,A299,A335

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-2599	1	Elbow, Exhaust (4" OD Without Threads)
2	155-2600	1	Elbow, Exhaust (4" OD With Threads)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	503-1575-01	1	Clamp, V-Band
4	502-0080	1	Plug, Square Head (1/8")
5	155-0663	1	Flange, Companion (4") (Not Use On All Models)

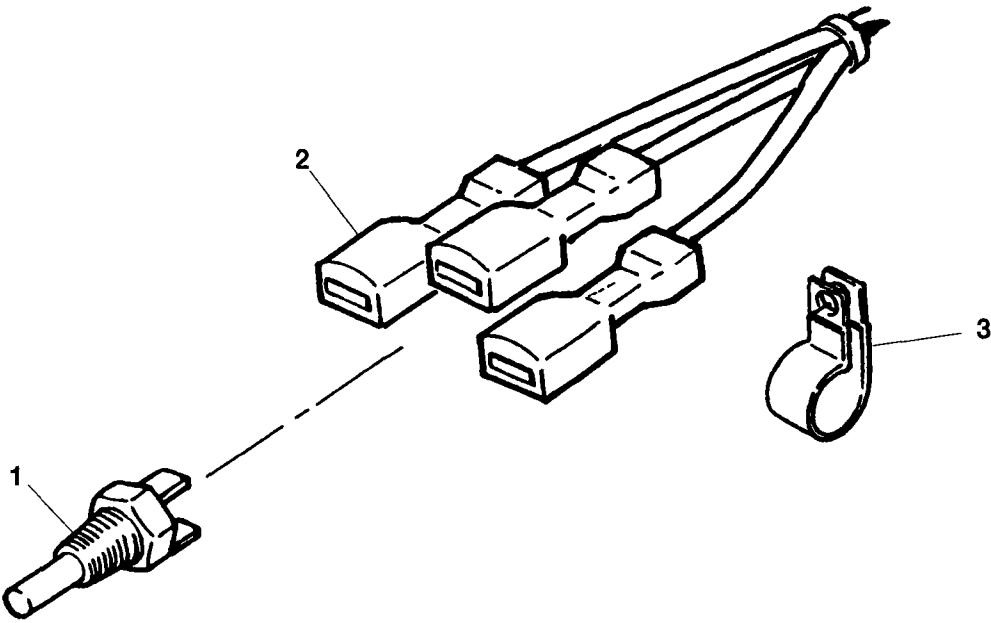
Muffler



A076

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-2583	1	Muffler	8	870-0437	4	Nut, Lock (7/16-14)
2	155-2582	2	Bracket, Mounting	9	870-0453	4	Nut, Lock - Nylon (3/8-16)
3	155-2584	1	Tubing, Flexible	10	155-2599	1	Elbow
4	155-2062-05	1	Cap, Rain	11	526-0026	4	Washer, Flat (3/8")
5	503-1575-01	1	Clamp, V-Band				
6	155-2305	2	Clamp, Muffler				
7	821-0033	4	Screw, Self-Locking - Hex Washer Head (7/16-14 x 3/4")				

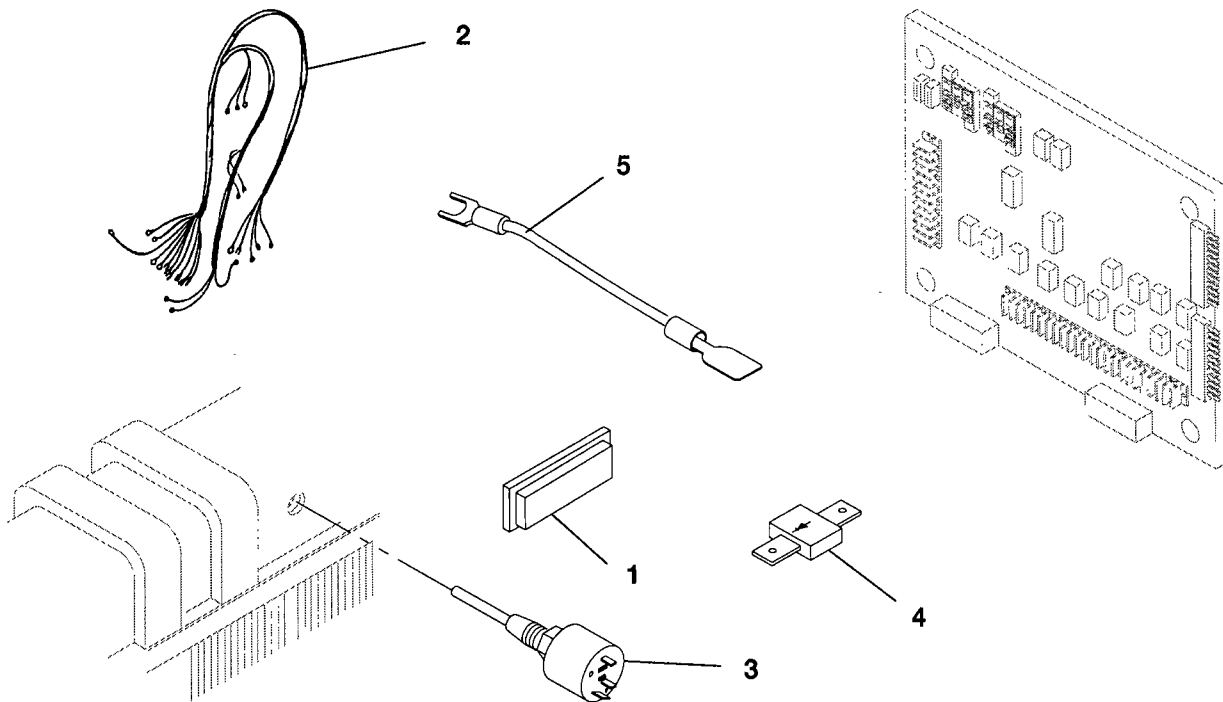
**Low Coolant Level Sender
Without Continuously Monitored Low Coolant Level**



H389,H527

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0467	1	Sender, Low Coolant Level (S7)	2	338-2727	1	Harness, Wiring – Spec A
				3	518-0548-15	4	Clamp

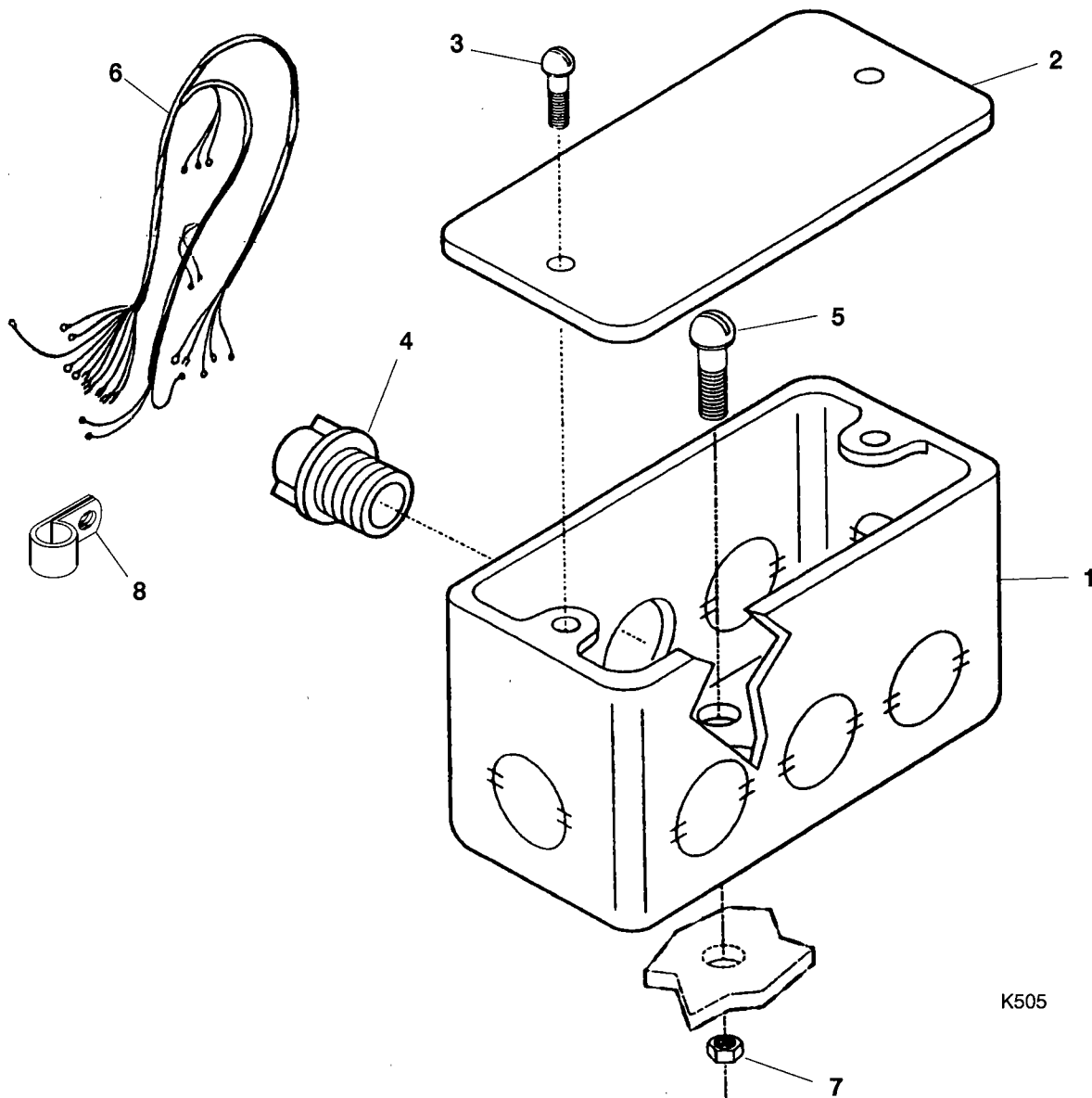
**Low Coolant Level Sender
With Continuously Monitored Low Coolant Level
12 Light Indicator Controls
Begin Spec C**



H389,H542

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	322-0431-07	1	Lens, Indicator Light (Marked "Coolant Lo")	4	357-0030	1	Diode (6 Amp)
2	338-3035-02	1	Harness, Wiring (3 Wire) (300") (S7 to A11)	5	226-4661-02	2	Lead (4") (No Markings) (A11TB2-1 to Diode and A11TB2-16 to Diode)
3	193-0467	1	Sender, Low Coolant Level (S7)				

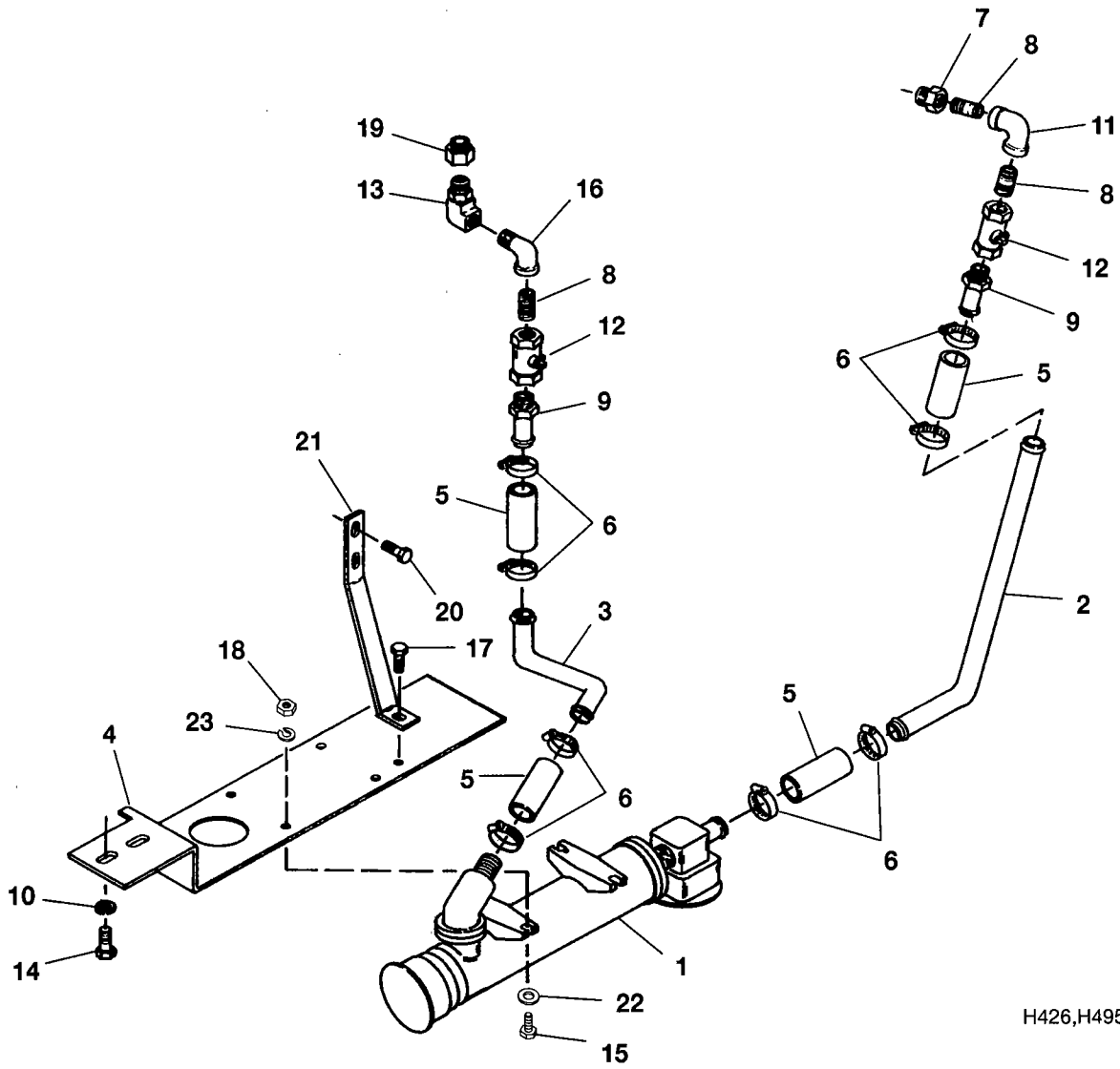
Junction Box Engine Coolant Heater Spec A Through E



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	330-0005	1	Box, Junction
2	330-0004	1	Cover, Junction Box
3	812-0079	2	Screw, Machine - Round Head (#8-32 x 1/2")
4	331-0027	3	Connector, Knockout
5	813-0105	2	Screw, Cap - Hex Head (#10-32 x 1")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	338-2446	1	Harness, Wiring - Junction Box to Coolant Heater (3 Wire)
7	870-0131	2	Nut, Lock - W/EIT (#10-32)
8	518-0548-08	2	Clamp, Retaining

Coolant Heater Spec A Through E



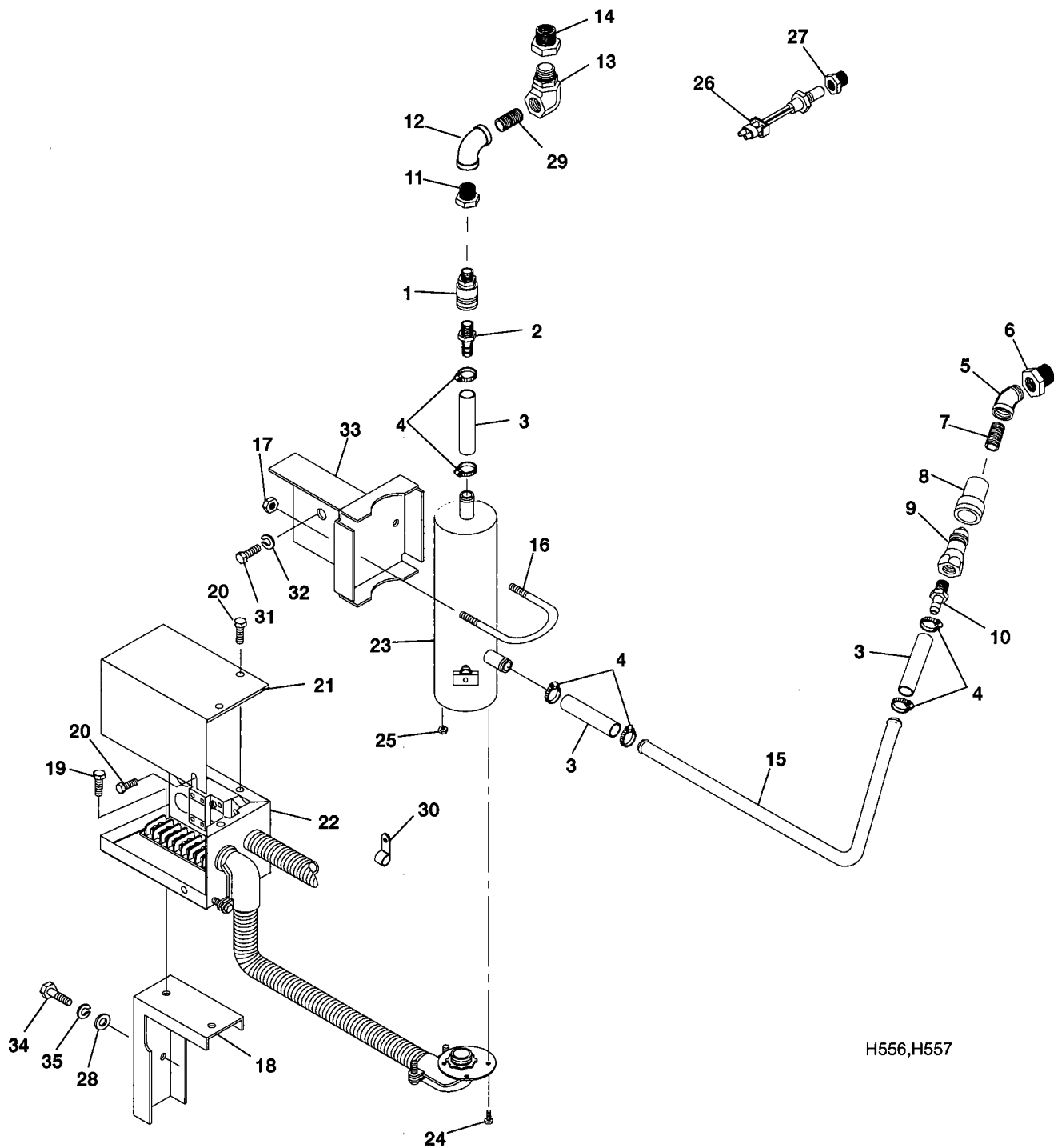
Coolant Heater Spec A Through E

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater Assembly, Coolant (2500 Watt)	8	505-0102	3	Nipple, Pipe – Close (3/4")
	333-0581-01	1	120, 208, 240 Volts (Includes Indented Parts Listed Below Marked *)	9	502-0971	2	Connector, Hose (Beaded)
	333-0582-01	1	480 Volts (Includes Indented Parts Listed Below Marked #)	10	850-0070	2	Washer, Lock – Spring (5/8")
			Harness, Heater	11	505-0132	1	Elbow, Pipe – 90 Deg (3/4")
	333-0581-02	1	* 120, 208, 240 Volts	12	504-0171	2	Valve, Shutoff
	333-0582-02	1	# 480 Volts	13	505-1476	1	Elbow, Pipe –90 Deg (Special)
			Thermostat, Heater	14	800-0130	2	Screw, Cap – Hex Head (5/8-11 x 1")
	333-0581-03	1	* 120, 208, 240 Volts	15	800-0006	4	Screw, Cap – Hex Head (1/4-20 x 7/8")
	333-0582-03	1	# 480 Volts	16	505-0051	1	Elbow, Pipe – 90 Deg (3/4")
			Element, Heater	17	821-5003-03	1	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
	333-0581-04	1	* 120, 208, 240 Volts	18	862-0001	4	Nut, Hex (1/4-20)
	333-0582-04	1	# 480 Volts	19	502-1192	1	Bushing, Adapter – Brass
			Elbow, Outlet	20	821-2062	2	Screw, Self-Locking – Hex Washer Head (M10 x 30mm)
	333-0581-05	1	* 120, 208, 240 Volts	21	130-4116	1	Bracket, Support
	333-0582-05	1	# 480 Volts	22	526-0018	4	Washer, Flat (1/4")
2	130-4112	1	Tube, Heater	23	850-0040	4	Washer, Lock – Spring (1/4")
3	130-4113	1	Tube, Heater				
4	130-3955	1	Bracket, Mounting				
5	503-1634	4	Hose, Rubber (1" ID x 4")				
6	503-1872-01	8	Clamp, Hose				
7	505-0129	1	Bushing, Pipe – Reducer (1" to 3/4")				

*-Parts Included in 333-0581-01 Coolant Heater Assembly

#-Parts Included in 333-0582-01 Coolant Heater Assembly

Coolant Heater Begin Spec F

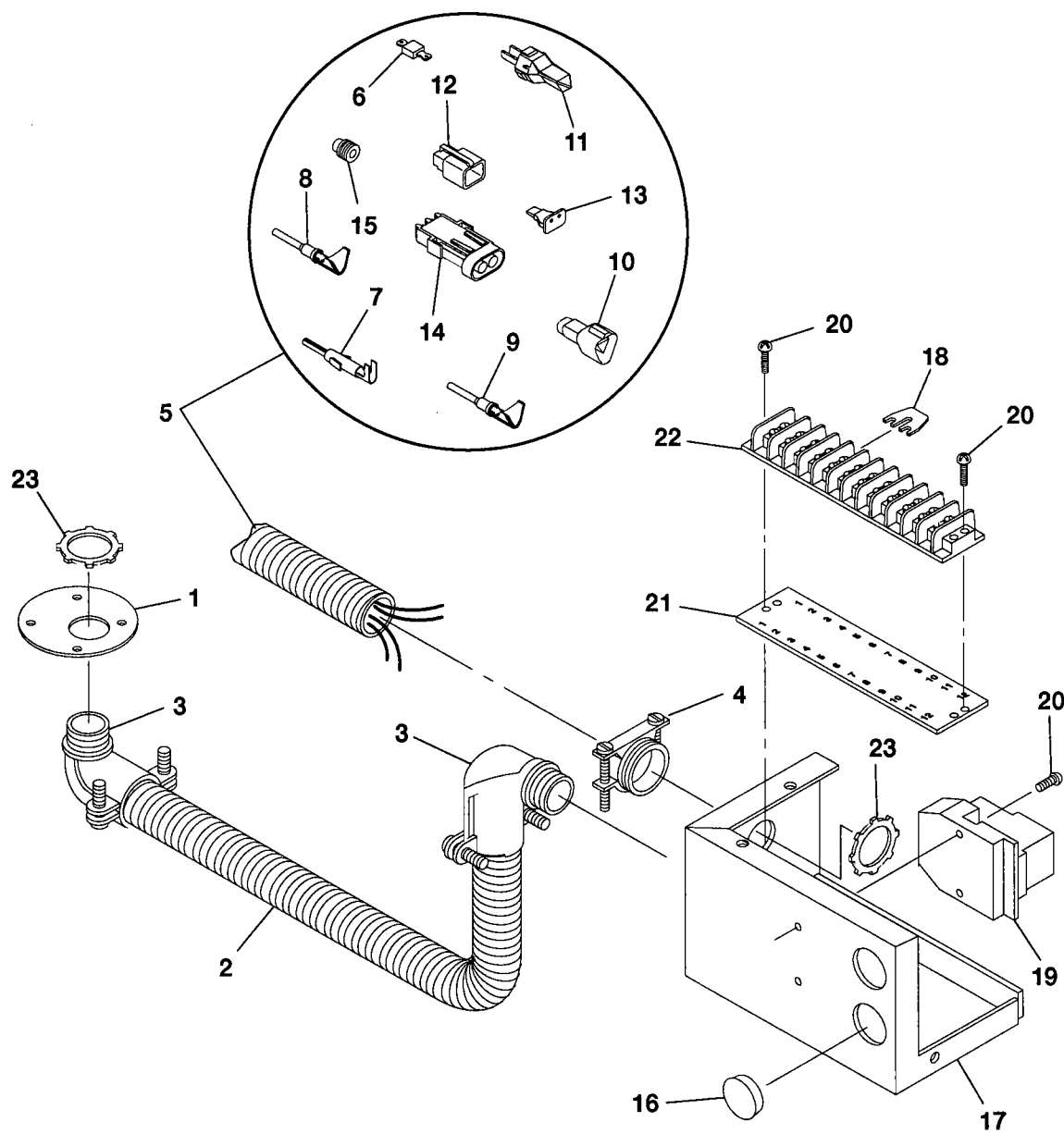


H556,H557

Coolant Heater Begin Spec F

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-1259	1	Coupler, Coolant Heater (1/2")	22	—	1	Control Assembly, Coolant Heater (See Separate Page For Components)
2	502-1257	1	Connector, Hose Barb (For 3/4" ID Hose)				Heater, Coolant
3	503-1634-01	3	Hose, Silicon Rubber (3/4" ID x 4")	23			4990 Watt
4	503-1136	6	Clamp, Hose		333-0569-01	1	6420 Watt
5	505-0050	1	Elbow, Pipe – 90 Deg (1/2")		333-0569-02	1	
6	505-0022	1	Bushing, Reducer (1" to 1/2")	24	815-0539	3	Screw, Machine – Round Head Cross Recessed W/IT (#8-32 x 5/8")
7	505-0100	1	Nipple, Pipe (1/2")				
8	502-1260	1	Coupler, Coolant Heater	25	870-0131	3	Nut, Hex W/ET (#10-32)
9	502-1261	1	Nipple, Coolant Heater (1/2")	26	309-0649	1	Thermostat (S11)
10	502-0827	1	Connector, Hose Barb (For 3/4" ID Hose)	27	505-0019	1	Bushing, Reducer (1/2" x 3/8")
11	505-0021	1	Bushing, Reducer (3/4" x 1/2")	28	526-0029	2	Washer, Flat (3/8")
12	505-0132	1	Elbow, Pipe – 90 Deg (3/4")	29	505-0085	1	Nipple, Pipe (3/4")
13	505-1476	1	Elbow, 90 Deg (3/4")	30	332-3196	1	Clamp, "J" – Retainer – Wiring Harness (Coolant Heater Control Box Wiring Harness To Engine and Main Engine Harness)
14	502-1192	1	Bushing, Reducer				
15	130-4543	1	Tube, Coolant Heater				
16	155-3021	1	Clamp, Coolant Heater				
17	870-0550-09	2	Nut, Hex Flange (3/8-16)	31	800-0130	3	Screw, Cap – Hex Head (5/8-11 x 1")
18	319-2918	1	Bracket, Terminal Block	32	850-0070	3	Washer, Lock – Spring (5/8")
19	821-5004-02	2	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")	33	130-4549	1	Bracket, Coolant Heater
20	821-5002-03	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	34	800-0054	2	Screw, Cap – Hex Head (3/8-16 x 2")
21	319-2815	1	Cover, Control	35	850-0103	2	Washer, Lock – Spring (3/8")

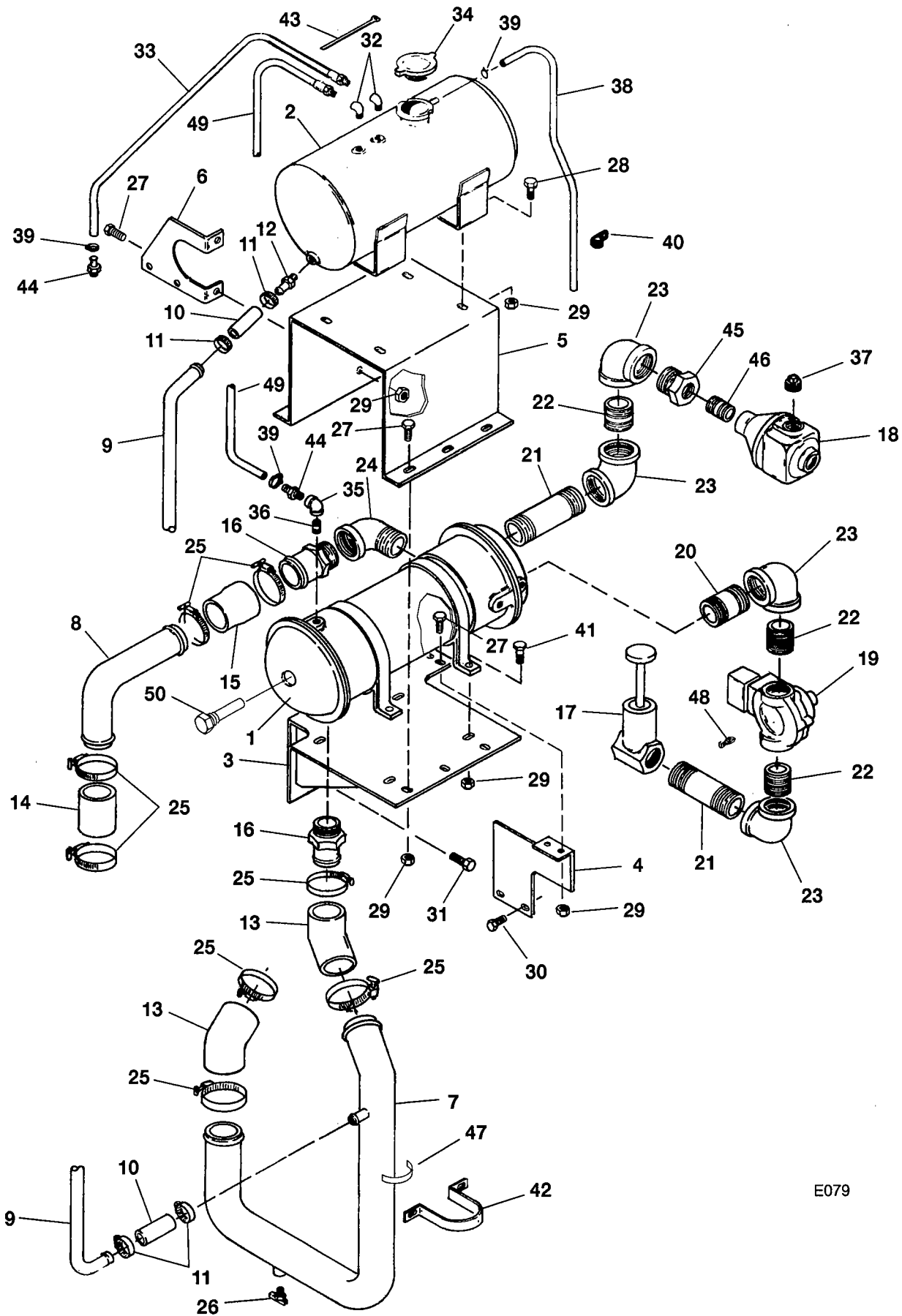
Coolant Heater Control
Begin Spec F



Coolant Heater Control Begin Spec F

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4552	1	Cover, Coolant Heater	11	323-1502	1	*Wedge, Receptacle (Used With J3)
2	338-3335-04	1	Harness, Wiring – AC – Coolant Heater (From Coolant Heater Bottom To Coolant Heater Control Box) (Includes Conduit Connectors) (23")	12	323-1504	1	*Connector, Plug (2 Pin) (P4)
3	331-0554	2	Connector, Conduit – 90 Deg (3/4")	13	323-1500	1	*Wedge, Plug (Used With P4)
4	331-0042	1	Connector, Wiring – DC – Romex (3/4")	14	323-1652	1	*Connector, Plug – 2-Way (2 Pin) (P11)
5	338-3385	1	Harness, Wiring – DC – Engine Heater (From Coolant Heater Control Box To Engine And Main Engine Harness) (Includes Parts Marked *)	15	323-1445	2	*Seal, Cable (Used With P11)
6	357-0030	1	*Rectifier (6 Amp) (Located at K11 end of harness)	16	517-0138-02	3	Plug, Hole (Fits 1-1/8" Hole)
7	323-1718	2	*Pin, Contact	17	319-2814	1	Box, Terminal
8	323-1491	3	*Pin, Contact	18	332-3440	1	Jumper, Terminal
9	323-1492	2	*Socket, Contact	19	307-2859	1	Relay, Power – 24VDC (K11)
10	323-1494	1	*Connector, Receptacle (3 Pin) (J3)	20	815-0447	4	Screw, Machine – Round Head – Cross Recessed W/IT – Thread Forming (#8-32 x 3/4")
				21	332-1469	1	Strip, Marker
				22	332-1468	1	Block, Terminal – 12 Place (TB1)
				23	331-0555	2	Nut, Connector Lock (3/4-14)
				*–Parts Included in 338-3385 DC Engine Heater Wiring Harness			

Heat Exchanger

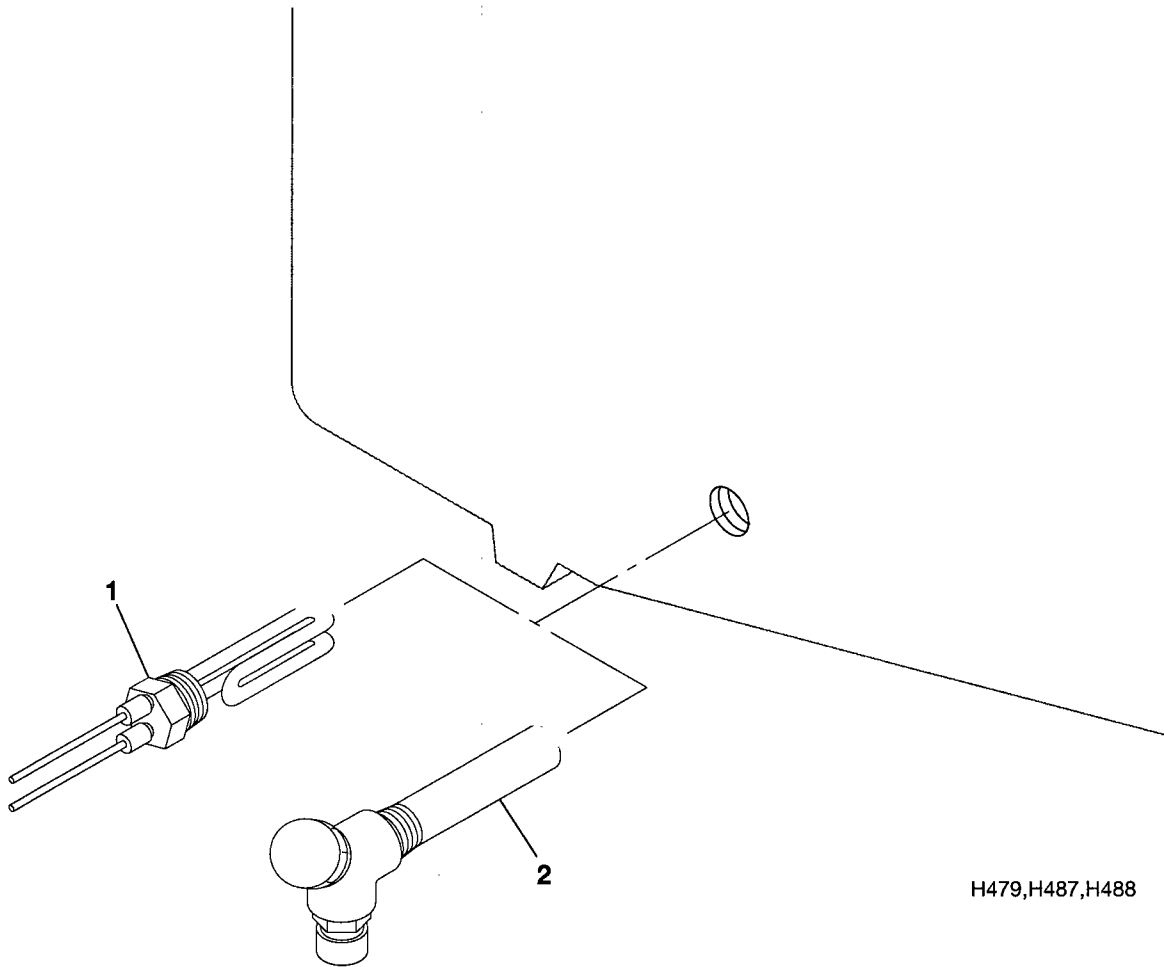


E079

Heat Exchanger

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3970	1	Exchanger, Heat (Includes Anode)	28	821-0034	4	Screw, Self -Locking - Hex Washer Head (3/8-16 x 5/8")
2	130-3969	1	Tank, Expansion	29	870-0281	17	Nut, Lock (3/8-16)
3	130-3980	1	Bracket, Mounting - Heat Exchanger	30	821-2060	2	Screw, Self-Locking - Hex Washer Head (M10 x 20mm)
4	130-3978	1	Bracket, Support - Heat Exchanger	31	800-2112	3	Screw, Cap - Hex Head (M12 x 30mm)
5	130-3968	1	Bracket, Mounting - Expansion Tank	32	505-0011	2	Elbow, Pipe - Street - 90 Deg (1/4")
6	130-3979	1	Bracket, Support - Expansion Tank	33	501-0551	1	# Line, Flexible (1/4" x 24-1/2")
7	130-3981	1	Tube, Heat Exchanger (2-1/2" OD)	34	130-0449	1	Cap, Expansion Tank
8	130-3975	1	Tube, Heat Exchanger (2-1/4" OD)	35	505-1043	1	Elbow, Pipe - Reducer - 90 Deg (1/4" to 1/8")
9	130-3976	1	Tube, Heat Exchanger (1" OD)	36	505-0099	1	Nipple, Pipe (1/4")
10	503-1634	2	Hose, Rubber (1" x 4")	37	505-0140	1	Plug, Pipe - Square Head (1")
11	503-0189	4	Clamp, Hose	38	501-0568	1	Hose, Overflow (1/4" x 91")
12	502-0971	1	Connector, Hose - Beaded (3/4")	39	503-0685	3	Clamp, Hose
13	503-1811	2	Elbow, Radiator - 30 Deg (2-1/2" ID)	40	518-0548-08	2	Clip, Retaining - Insulated
14	503-1379-02	1	Hose, Rubber (2-1/4" x 4-1/2")	41	800-0051	4	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
15	503-1068	1	Hose, Reducer (2-1/2" to 2-1/4")	42	130-4066	1	Bracket, Retaining - Heat Exchanger Tube
16	130-3977	2	Connector, Hose	43	332-0941	1	Tie, Cable (Quantity Used As Required)
17	504-0057	1	Valve, Gate	44	502-0395	2	Connector, Hose (1/8")
18	505-1301	1	Valve, Water Saver (Not Used On All Models)	45	505-0394	1	*Bushing, Reducer (2" to 1")
19	307-0844	1	Valve, Solenoid - Water	46	505-0004	1	*Nipple, Pipe - Close (1")
20	505-0645	1	Nipple, Pipe (2" x 3")	47	895-0170	-	Tape - Bulk (3/8" x 3/4") (Order By The Foot - 1 Foot Required)
21	505-0401	2	Nipple, Pipe (2" x 6")	48	332-2238	2	Terminal, Connector (Water Solenoid Valve Leads)
22	505-0172	3	Nipple, Pipe (2" x 2")	49	501-0551	1	# Line, Flexible (1/4" x 17-1/2")
23	505-0175	4	Elbow, Pipe - 90 Deg (2")	50	130-4840	1	Anode, Zinc
24	505-0201	1	Elbow, Pipe - Street - 90 Deg (2")				
25	503-1870-04	8	Clamp, Hose	#-Cut Off and Discard The Non-Swiveling End Of The Hose Leaving The Length As Indicated Above			
26	504-0028	1	Cock, Drain (3/8")				
27	821-0030	9	Screw, Self-Locking - Hex Washer Head (3/8-16 x 1")	*-Used On Sets With Water Saver Valve			

Oil Pan Heater

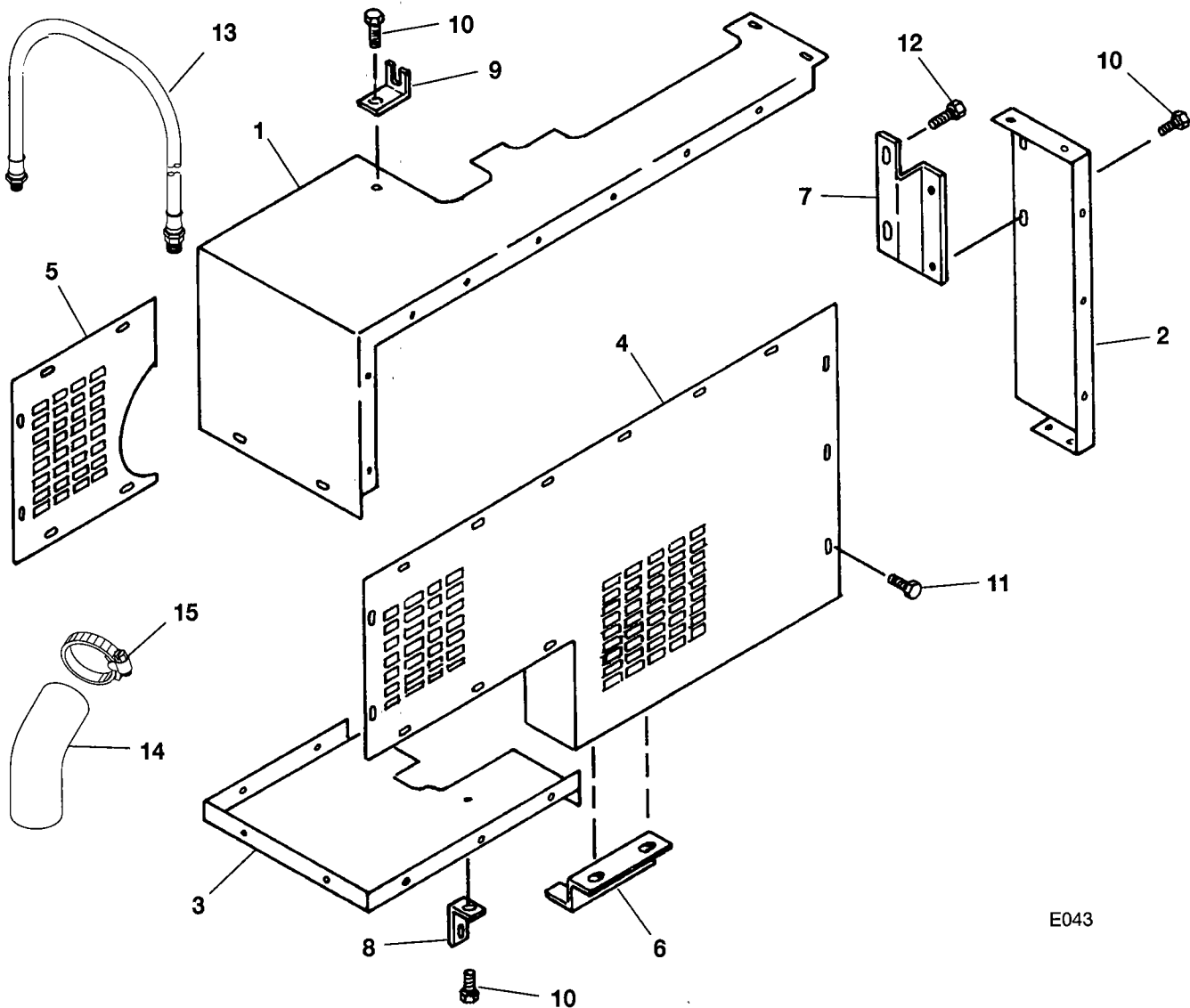


H479,H487,H488

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

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

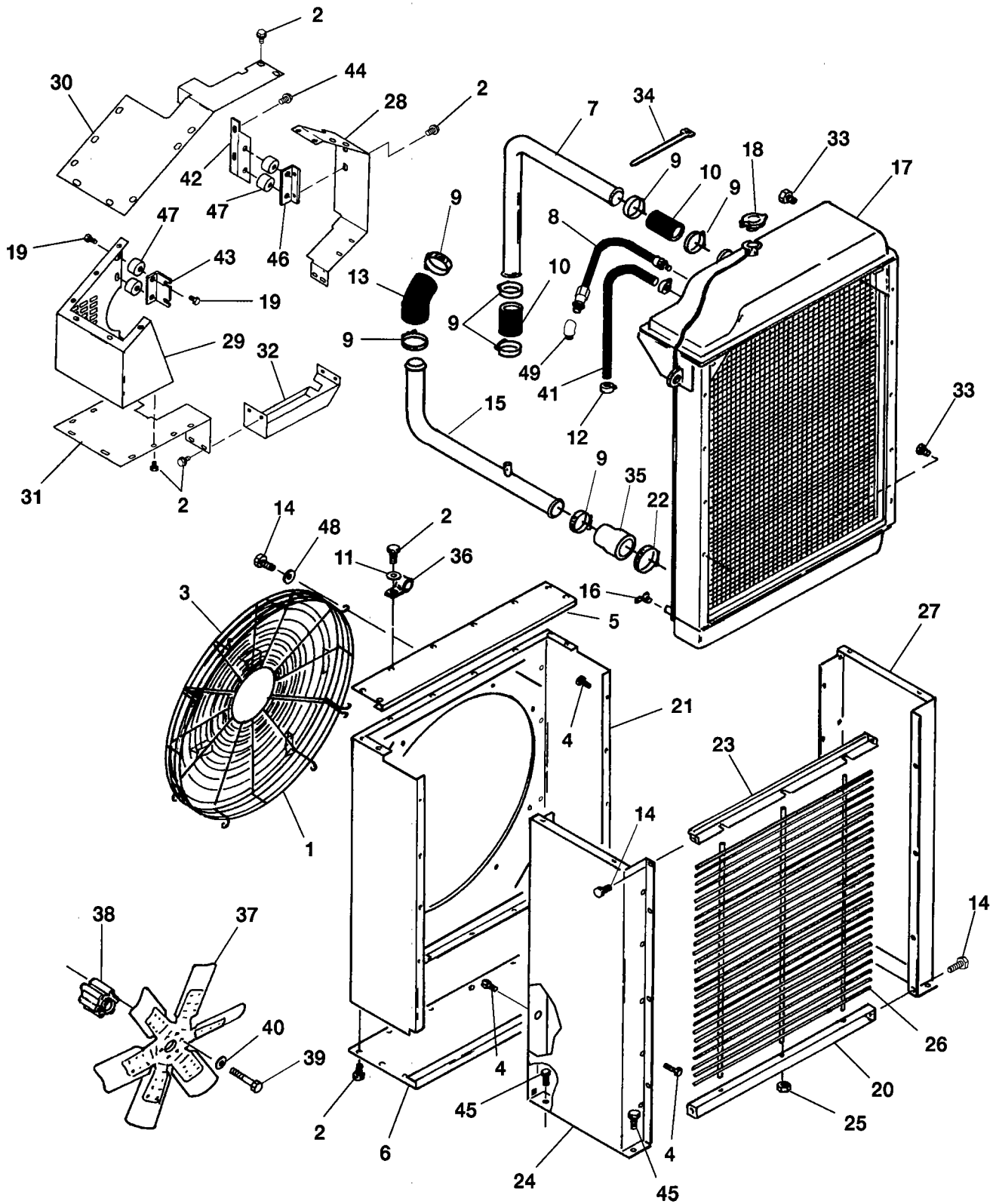
Remote Radiator



E043

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3945	1	Guard, Belt (Top)	11			Screw, Self-Locking - Hex Washer Head (1/4-20 x 1 1/2")
2	130-3944	1	Guard, Belt (Side)		821-0010	28	Spec A,B
3	130-3943	1	Guard, Belt (Bottom)		821-5002-03	34	Begin Spec C
4	130-3942	1	Guard, Belt (Front)	12	821-2060	2	Screw, Self-Locking - Hex Washer Head (M10 x 20mm)
5	130-3954	1	Guard, Belt (Rear)	13	501-0247	1	Line, Flexible (69")
6	130-3952	1	Bracket, Guard	14	503-1811	1	Elbow - 30 Deg (2-1/2" ID)
7	130-3953	1	Bracket, Guard	15	503-1872-04	1	Clamp, Hose
8	130-3946	1	Bracket, Guard				
9	130-3947	1	Bracket, Guard				
10			Screw, Self-Locking - Hex Washer Head				
	821-0018	6	Spec A,B (1/4-20 x 5/8")				
	821-5002-04	6	Spec C,D (1/4-20 x 5/8")				
	821-5002-03	6	Spec E,F (1/4-20 x 1/2")				

Radiator **Spec A Through C**



E074

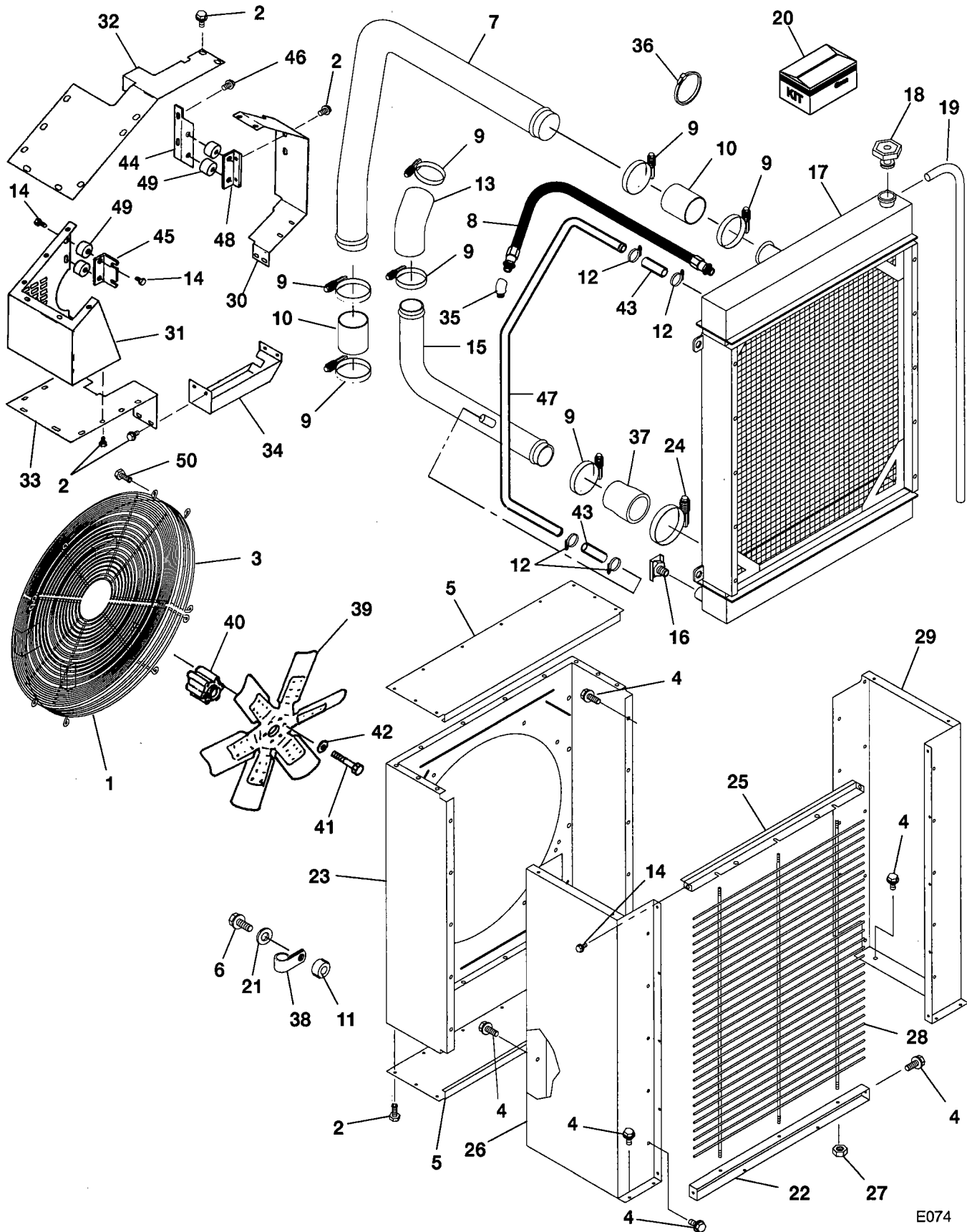
Radiator Spec A Through C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3932-02	1	Guard, Fan (Left Side) (Bottom)	33	502-0153	2	Plug, Pipe – Hex Head (1/4-18)
2	821-0018	47	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")	34	332-2262	1	Tie, Cable (Quantity Used As Required)
3	130-3932-01	1	Guard, Fan (Right Side) (Top)	35	503-1026	1	Hose, Reducer (2-3/4" to 2-1/2")
4	821-0029	30	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")	36	518-0548-29	2	Clip, Retainer
5	130-4017	1	Shroud, Fan (Top)	37			Fan, Radiator (6 Blade)
6	130-4018	1	Shroud, Fan (Bottom)		130-3188	1	* Spec A,B
7	130-3923	1	Tube, Radiator (Inlet)		130-4534	1	# Spec C
8	501-0551-01	1	Line, Flexible (34")	38			Spacer, Fan
9	503-1872-04	7	Clamp, Hose		130-3931	1	* Spec A,B
10	503-1379-02	2	Hose, Radiator (2-1/4" ID)		130-3931-01	1	# Spec C
11	526-0018	1	Washer, Flat (1/4")	39	800-0062	6	Screw, Cap – Hex Head (3/8-16 x 4")
12	503-1136	2	Clamp, Hose				Washer (3/8")
13	503-1811	1	Elbow, Radiator	40			Spec A,B (Lock – Spring)
14			Screw, Self-Locking – Hex Washer Head		850-0050	6	Spec C (Flat)
	821-0014	14	Spec A,B (5/16-18 x 1/2")	41	526-0026	6	Hose, (3/4" x 58")
	821-0016	14	Spec C (5/16-18 x 3/4")	42	503-1467-09	1	Bracket, Guard (Right Side)
15	130-3922	1	Tube, Radiator (Outlet)	43	130-4075	1	Bracket, Guard (Left Side)
16	504-0028	1	Cock, Drain (3/8")	44	130-3951	1	Screw (M10 x 20mm)
17	130-3555	1	Radiator (Includes Overflow Hose and Radiator Cap)		821-2060	2	Spec A,B (Self-Locking – Hex Washer Head)
18	130-3721	1	Cap, Radiator		800-2085	2	Spec C (Cap – Hex Head)
19	821-0014	8	Screw, Self-Locking – Hex Head (5/16-18 x 1/2")	45			Screw (3/8-16 x 3/4")
20	130-3529	1	Support, Grille (Lower)		815-0384	6	Spec A,B (Hex Head – Thread Forming)
21	130-4016	1	Wrapper, Fan Shroud				Spec C (Self-Locking – Hex Washer Head)
22	503-1872-05	1	Clamp, Hose		821-0029	4	Sets With 44" Wide Skid
23	130-3528	1	Support, Grille (Upper)		821-0029	6	Sets With 50" Wide Skid
24			Guard, Radiator (Left Side)	46	130-4074	1	Bracket, Belt Guard (Right Side)
	130-3749-02	1	Sets With 44" Wide Skid	47	402-0070	4	Dampener, Vibration
	130-3532-02	1	Sets With 50" Wide Skid	48	526-0115	10	Washer, Flat (5/16")
25	870-0281	9	Nut, Self-Locking – Hex Head (3/8-16)	49	502-0053	1	Elbow, Pipe – Street – 45 Deg – Spec C
26	130-3530	1	Grille				
27			Guard, Radiator (Right Side)				
	130-3749-01	1	Sets With 44" Wide Skid				
	130-3532-01	1	Sets With 50" Wide Skid				
28	130-3937	1	Guard, Belt (Right Side)				
29	130-3936	1	Guard, Belt (Left Side)				
30	130-3935	1	Guard, Belt (Top)				
31	130-3934	1	Guard, Belt (Left Side – Bottom)				
32	130-3933	1	Guard, Belt (Bottom)				

* – Must be used as a set

– Must be used as a set

Radiator **Begin Spec D**

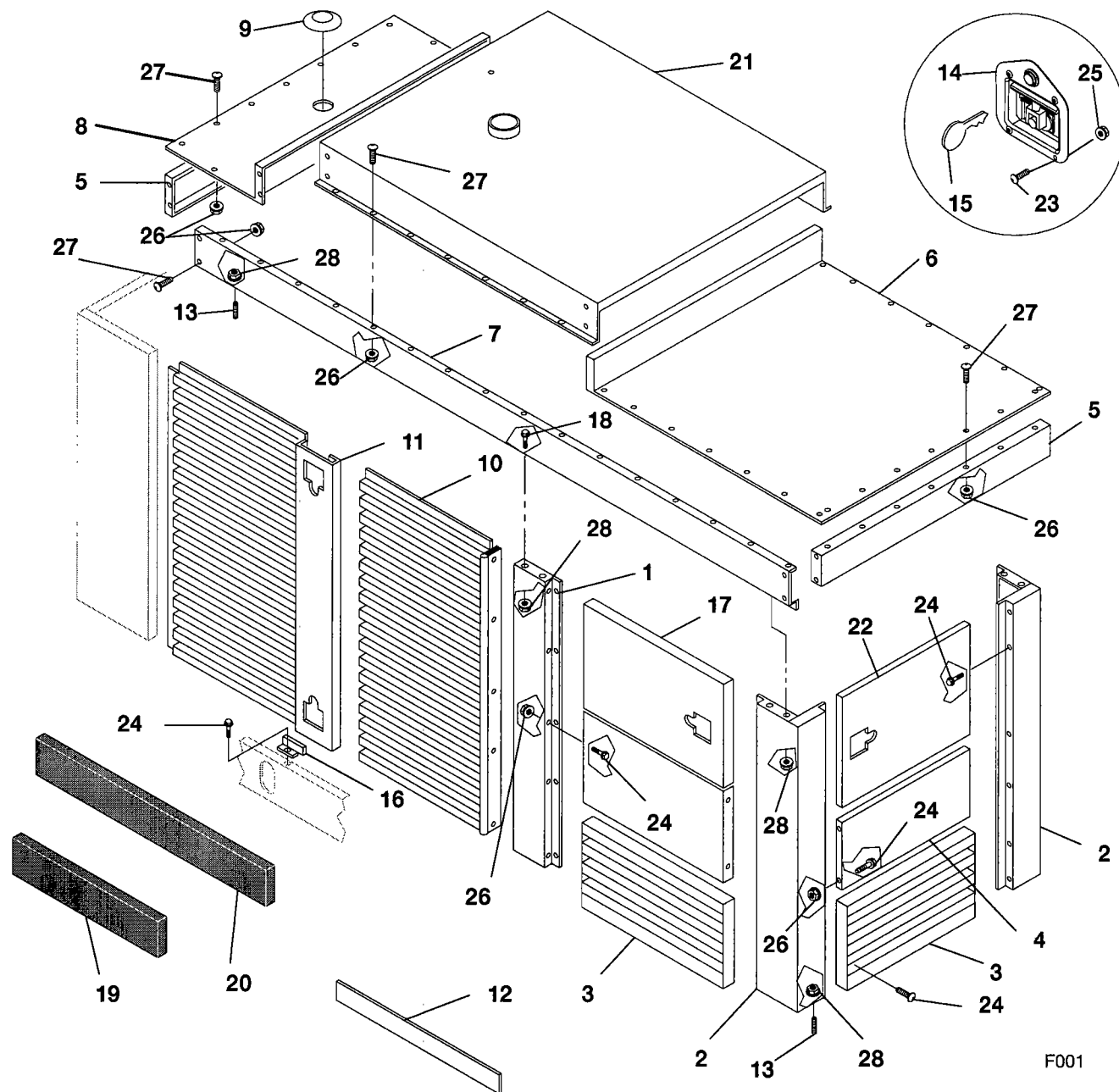


E074

Radiator Begin Spec D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3932-02	1	Guard, Fan (Left Side) (Bottom)	26			Guard, Radiator (Left Side) Sets With 44" Wide Skid
2	821-5002-04	49	Screw, Self-Locking – Hex Washer Head (1/4–20 x 5/8")		130-4384-02	1	Sets With 50" Wide Skid
3	130-3932-01	1	Guard, Fan (Right Side) (Top)	27	870-0550-09	12	Nut, Self-Locking – Hex Head (3/8–16)
4			Screw, Self-Locking – Hex Washer Head (3/8–16 x 3/4")	28	130-4385	1	Grille
	821-5004-02	34	Sets With 44" Wide Skid	29			Guard, Radiator (Right Side) Sets With 44" Wide Skid
	821-5004-02	36	Sets With 50" Wide Skid		130-4384-01	1	Sets With 50" Wide Skid
5	130-4373	2	Shroud, Fan	30	130-3937	1	Guard, Belt (Right Side)
6	800-0052	2	Screw, Cap – Hex Head (3/8–16 x 1–1/2")	31	130-3936	1	Guard, Belt (Left Side)
7	130-4378	1	Tube, Radiator (Inlet)	32	130-3935	1	Guard, Belt (Top)
8	501-0551-02	1	Line, Flexible (39")	33	130-3934	1	Guard, Belt (Left Side – Bottom)
9	503-1872-04	7	Clamp, Hose	34	130-3933	1	Guard, Belt (Bottom)
10			Hose, Radiator (2–1/4" ID) Spec D (5–1/2")	35	502-0053	1	Elbow, Street Pipe – 45 Deg
	503-1379-01	2	Begin Spec E (4–1/2")	36	332-2262	1	Tie, Cable (Quantity Used As Required)
11	130-3660-01	2	Spacer	37	503-1026	1	Hose, Reducer (2–3/4" to 2–1/2")
12	503-1872-01	4	Clamp, Hose	38	518-0548-20	2	Clamp, Hose
13	503-1811	1	Elbow, Radiator – 30 Deg	39	130-4534	1	Fan, Radiator (6 Blade)
14	821-5003-01	12	Screw, Self-Locking – Hex Washer Head (5/16–18 x 1/2")	40	130-3931-01	1	Spacer, Fan
15	130-4377	1	Tube, Radiator (Outlet)	41	800-0062	6	Screw, Cap – Hex Head (3/8–16 x 4")
16	504-0028	1	Cock, Drain (3/8")	42	526-0026	6	Washer, Flat (3/8")
17	130-4355	1	Radiator (Includes Radiator Cap, Overflow Hose, and Safety Sight Gauge Kit)	43	503-1634	2	Hose, Rubber (1" ID x 4")
18	130-3588	1	Cap, Radiator	44	130-4075	1	Bracket, Belt Guard (Right Side – Rear)
19	503-1418	–	Hose – Bulk (1/4" ID) (Order By The Foot – 6 Feet Required)	45	130-3951	1	Bracket, Belt Guard (Left Side)
20	130-4362	1	Kit, Gauge – Safety Sight – Radiator (Includes Glass Bulb and O-Ring)	46	800-2085	2	Screw, Cap – Hex Head (M10 x 20mm)
21	526-0029	2	Washer, Flat (3/8")	47	130-4376	1	Tube, Radiator Fill
22	130-4386	1	Support, Grille (Lower)	48	130-4074	1	Bracket, Belt Guard (Right Side – Front)
23	130-4374	1	Wrapper, Fan Shroud	49	402-0070	4	Dampener, Vibration
24	503-1872-05	1	Clamp, Hose	50	821-5003-03	10	Screw, Self-Locking – Hex Washer Head (5/16–18 x 3/4")
25	130-4387	1	Support, Grille (Upper)				

Housing

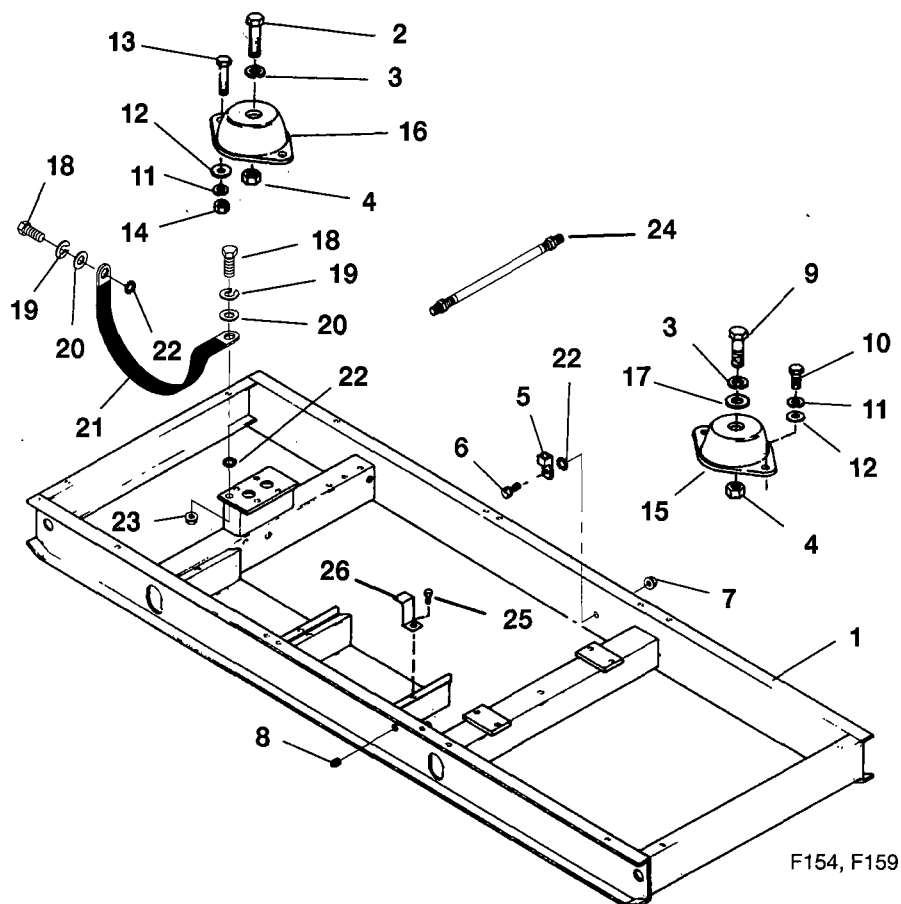


F001

Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-4110	2	Post – Center	19	128-0118	1	Insulation, Foam (24" x 5-3/4" x 1/4")
2	405-4111	2	Post – Rear	20	128-0154	4	Insulation, Foam (58" x 6-3/4" x 1/4")
3	405-4104	3	Grille	21	405-4438-01	1	Roof – Center
4	405-4112	3	Panel – Rear and Side	22	405-4106	1	Door, Control
5	405-4401	2	Cap, End – Front and Rear	23			Fastener
6	405-4439	1	Roof – Rear		815-0607	28	Screw, Machine – Round Head (#8-32 x 3/8") Spec A Through C
7	405-4395-02	2	Rail – Side				Rivet – Begin Spec D
8			Roof – Front		818-0231-02	28	Screw, Self-Locking – Hex Washer Head 5/16-18 x 1/2" – Spec A Through C
	405-4397	1	Spec A Through C				5/16-18 x 3/4" – Begin Spec D
	405-5196	1	Begin Spec D	24			Nut, Locking – Hex (#8-32) Spec A Through C
9	517-0245	1	Plug		821-5003-01	45	Begin Spec D
10	405-4404	2	Door – Side – Without Opening For Door Handles (Right Side Center Location And Left Side Front Location)		821-5003-03	45	Nut, Locking – Hex (5/16-18) Spec A Through C
11	405-4405	2	Door – Side – With Opening For Door Handles (Right Side Front Location And Left Side Center Location)	25	870-0235	28	Bolt, Carriage (5/16-18 x 5/8")
12	895-0308	–	Tape, Sealing – Bulk (1/8" Thk x 1" Wide) (Order By The Foot – 6 Feet Required)	26			Nut, Locking – Hex (3/8-16) Spec A Through C
13	520-0544	14	Stud (3/8-16 x 1-3/16")		870-0257	71	Begin Spec D
14	406-0626	7	Handle, Door (Includes Key)		870-0550-07	71	Bolt, Carriage (5/16-18 x 5/8")
15	406-0639	7	Key, Handle	27	816-0098	59	Nut, Locking – Hex (3/8-16) Spec A Through C
16	405-3980	2	Stop, Door	28			Begin Spec D
17	405-4107	2	Door – Side		870-0281	32	
18			Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")		870-0550-09	32	
	821-0029	10	Spec A Through C				
	821-5004-02	10	Begin Spec D				

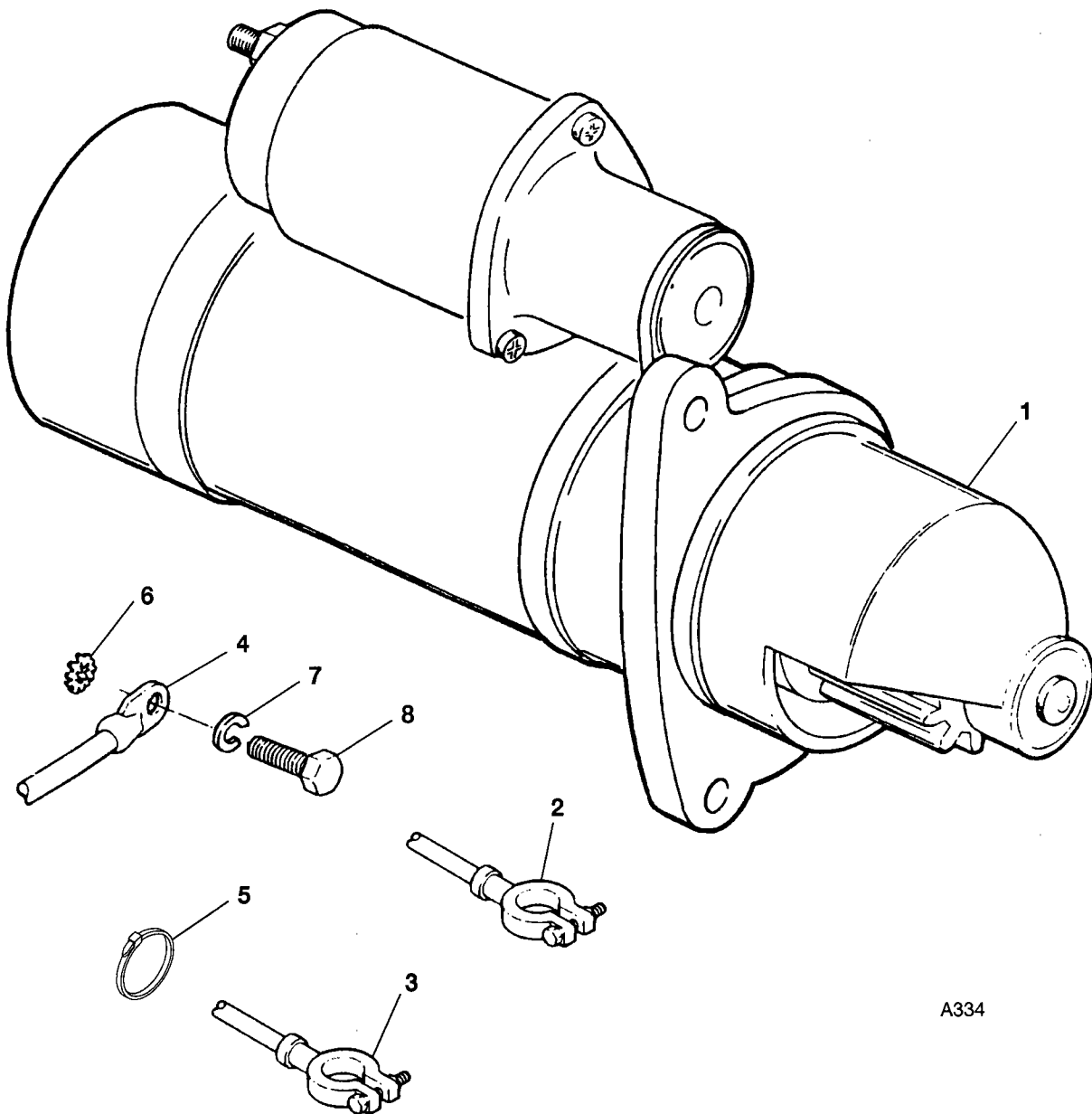
Skid



F154, F159

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-3248	1	Skid	14	862-0016	4	Nut, Hex (1/2-13)
	403-3234	1	Sets With 44" Wide Skid	15	402-0568	2	Cushion, Vibration - Generator End
2	800-0156	2	Sets With 50" Wide Skid	16	402-0030	2	Cushion, Vibration - Engine End
3	850-0079	4	Screw, Cap - Hex Head (3/4-10 x 2-1/4")	17	526-0238	2	Washer, Flat (3/4")
4	862-0008	4	Washer, Lock - Spring (3/4")	18	800-2086	2	Screw, Cap - Hex Head (M10 x 25mm)
5	332-1473	1	Nut, Hex (3/4-10)	19	850-2010	2	Washer, Lock - Spring (M10)
6	800-0027	1	Lug, Solderless - Grounding	20	526-0030	2	Washer, Flat (3/8")
7	870-0257	1	Screw, Cap - Hex Head (5/16-18 x 7/8")	21	337-0090	1	Strap, Ground
8	505-1379	1	Nut, Self-Locking - Hex Head (5/16-18)	22	856-0010	3	Washer, Lock - EIT (3/8")
9	800-0155	2	Plug, Pipe (1/2")	23	870-2056	1	Nut, Self-Locking - Hex Head (M10)
10	800-0090	4	Screw, Cap - Hex Head (3/4-10 x 2")	24			Line, Fuel - Flexible
11	850-0060	8	Screw, Cap - Hex Head (1/2-13 x 1")		501-0602	1	Fuel In (1/2" ID x 42")
12	526-0219	8	Washer, Lock - Spring (1/2")		501-0603	1	Fuel Out (3/8" ID x 58-1/2")
13	800-0091	4	Washer, Flat (1/2")	25	800-0048	4	Screw, Cap - Hex Head (3/8-16 x 3/4")
			Screw, Cap - Hex Head (1/2-13 x 1-1/4")	26	416-0850	4	Bracket, Retaining - Battery

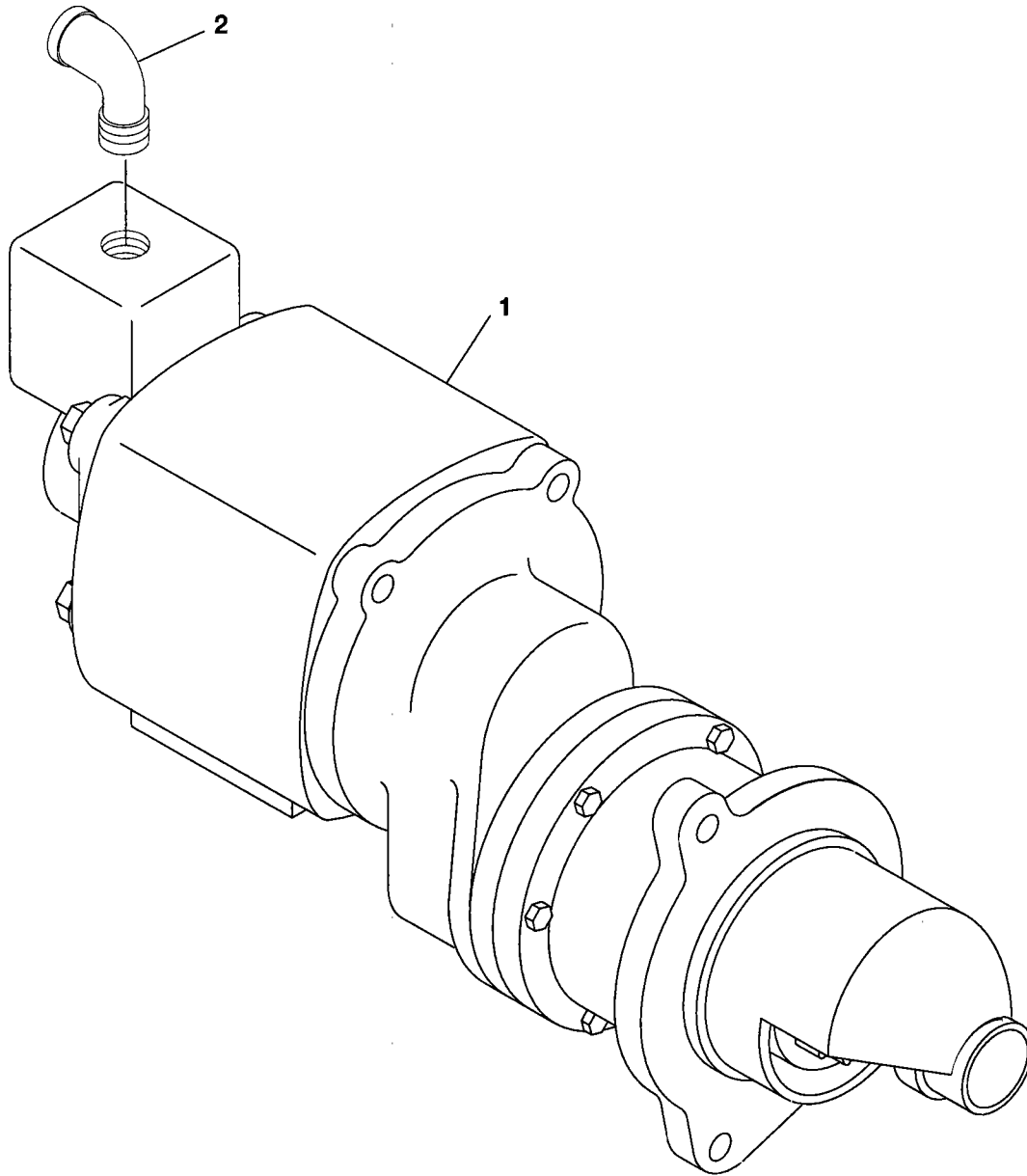
Electric Starter



A334

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-2087	1	Starter (24VDC)	4	416-0680	1	Cable, Battery – Starter to Ground (14-1/2")
2	416-0619	2	Cable, Battery 18" – Sets With 50" Wide Skid	5	332-0941	2	Tie, Cable
	416-0444	2	44" – Sets With 44" Wide Skid	6	856-0010	1	Washer, Lock – W/EIT (3/8")
				7	850-2010	1	Washer, Lock – Spring (M10)
3	416-0446	1	Cable, Battery – Jumper (12-1/2")	8	800-2085	1	Screw, Cap – Hex Head (M10 x 20mm)

**Air Starter
Begin Spec C**

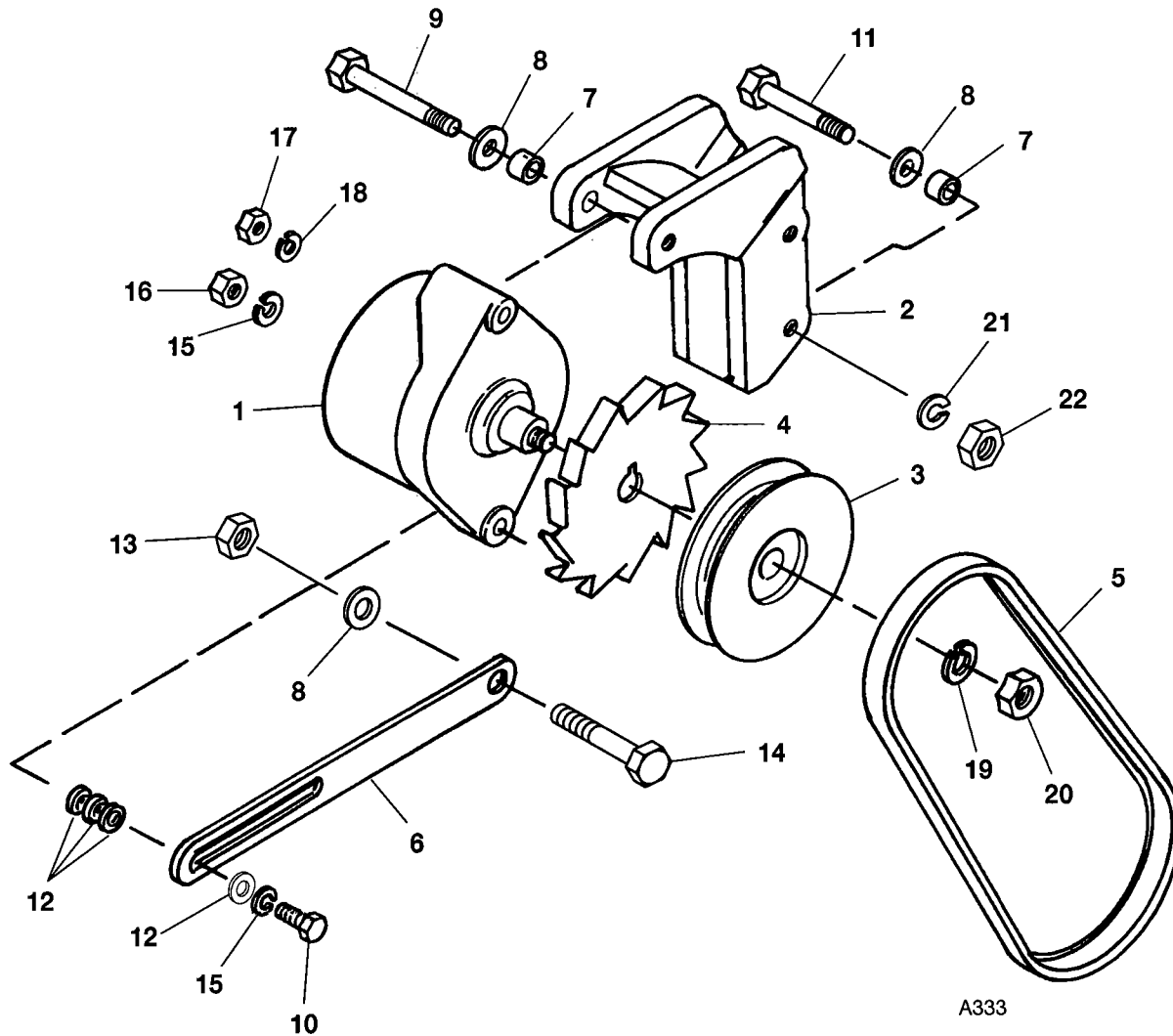


A300

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	127-0387-02	1	Starter, Air

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	502-1054-07	1	Elbow, Street Pipe – 90 Deg

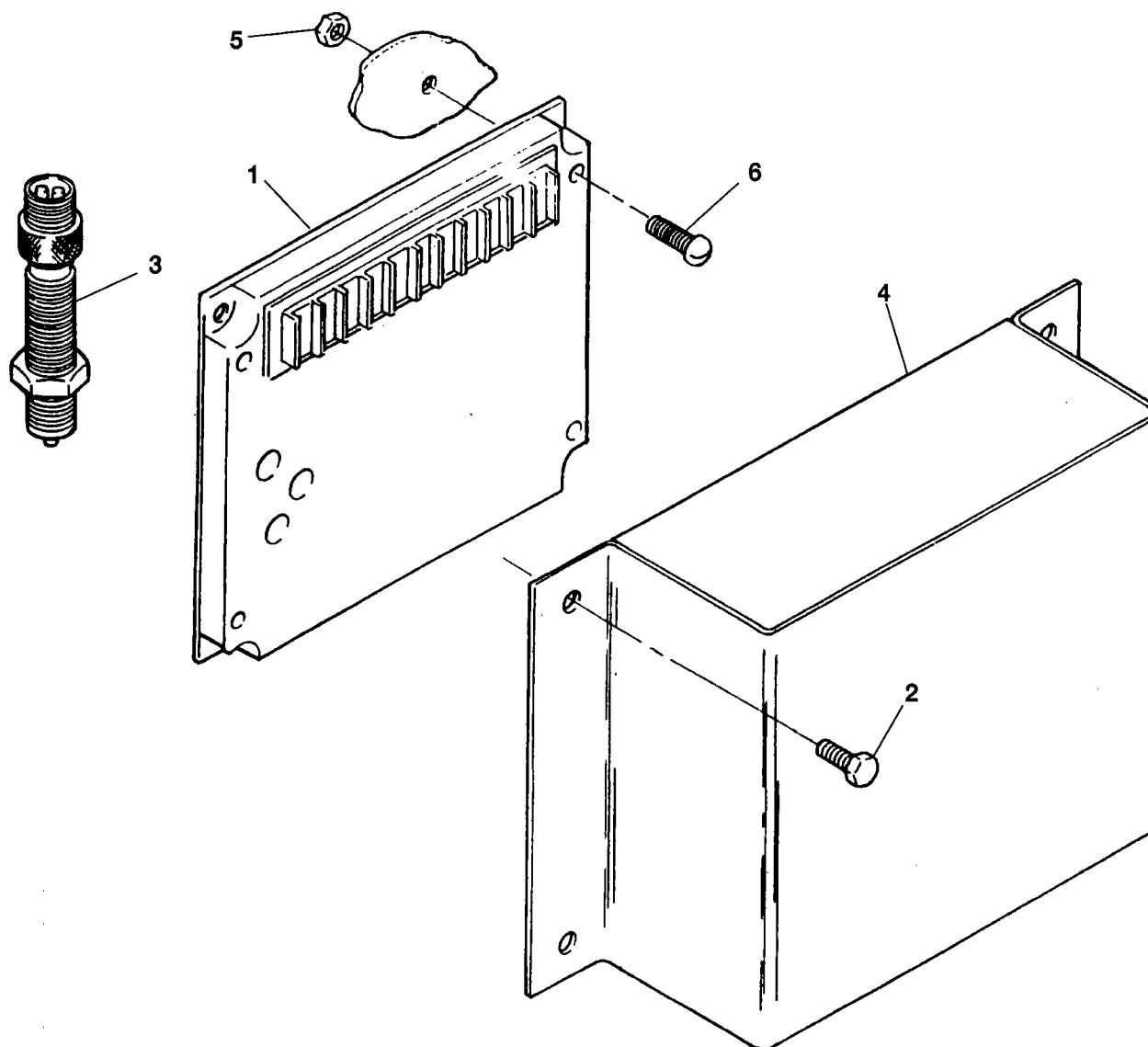
Alternator



A333

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-1983-02	1	Alternator (24 Volt DC - 45 Amp)	12	526-0030	4	Washer, Flat (M8)
2	191-2072	1	Bracket, Alternator	13	870-2056	1	Nut, Lock (M10)
3	191-1984	1	Pulley, Alternator	14	800-2093	1	Screw, Cap - Hex Head (M10 x 60mm)
4	191-1981	1	Fan, Alternator	15	850-2008	2	Washer, Lock - Spring (M8)
5	511-0161-02	1	Belt, V-Ribbed	16	860-2008	1	Nut, Hex (M8)
6	191-1977	1	Bracket, Alternator Adjusting	17	850-2005	2	Washer, Lock - Spring (M5)
7	191-1989-07	3	Spacer, Mounting	18	860-2006	2	Nut, Hex (M5)
8	526-2120	4	Washer, Flat (M10)	19	851-0039	1	Washer, Lock - Spring (M16)
9	718-1067	1	Screw, Cap - Hex Head (M10 x 90mm)	20	870-2161	1	Nut, Hex (M16)
10	800-2060	1	Screw, Cap - Hex Head (M8 x 35mm)	21	850-2010	2	Washer, Lock - Spring (M10)
11	718-1067	2	Screw Cap - Hex Head (M10 x 90mm)	22	860-2009	2	Nut, Hex (M10)

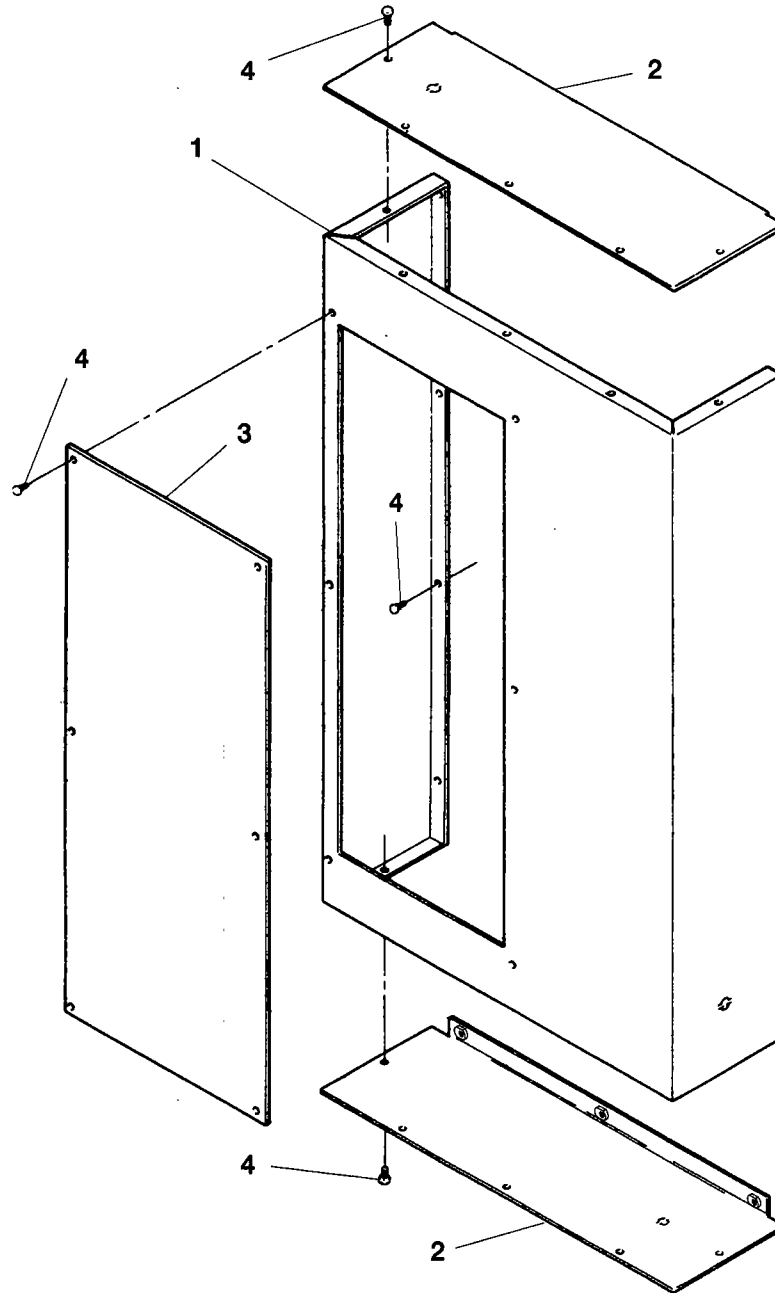
Electronic Governor



A332,H529,546,547

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	151-0637-01	1	Control, Governor	6			Screw
2			Screw, Self-Locking - Hex Washer Head	813-0103	4		Machine - Round Head (#10-32 x 3/4") Spec A Through F
	821-5002-03	4	1/4-20 x 1/2" - Spec A Through F	821-6001-03	4		Self-Locking - Hex Washer Head (M5 x 16mm) Begin Spec G
	821-6002-03	4	M6 x 20mm - Begin Spec G				
3	151-0411	1	Pickup, Magnetic				
4	150-2213	1	Cover, Governor Control				
5	870-0131	4	Nut, Hex - W/ET (#10-32) Spec A Through F				

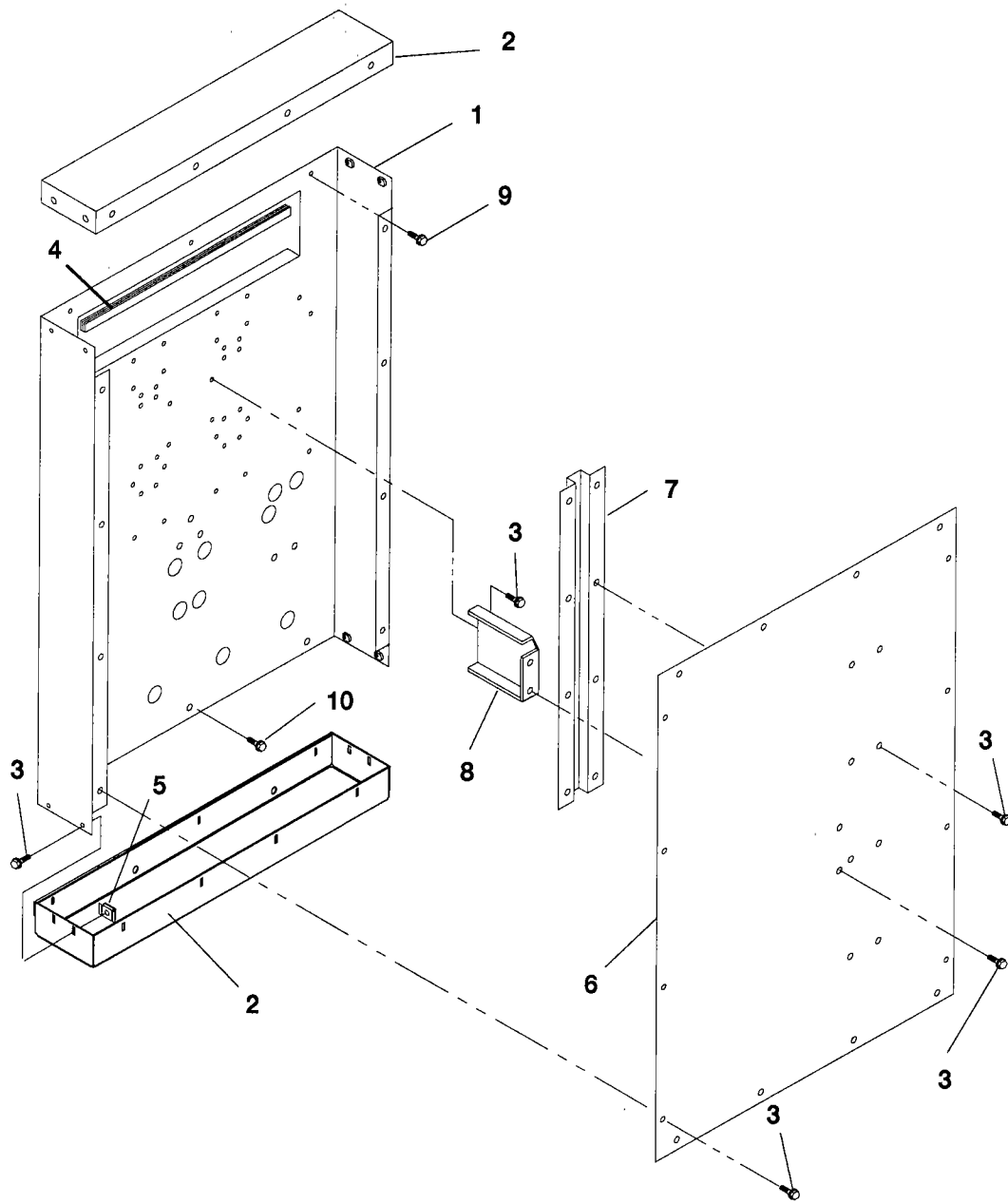
Entrance Box Spec A and B



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9655	1	Box, Entrance
2	319-1355	2	Panel
3	301-9698	1	Cover

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	821-5002-03	22	Screw, Self-Locking – Hex Washer Head (1/4–20 x 1/2")

**Entrance Box
Begin Spec C**

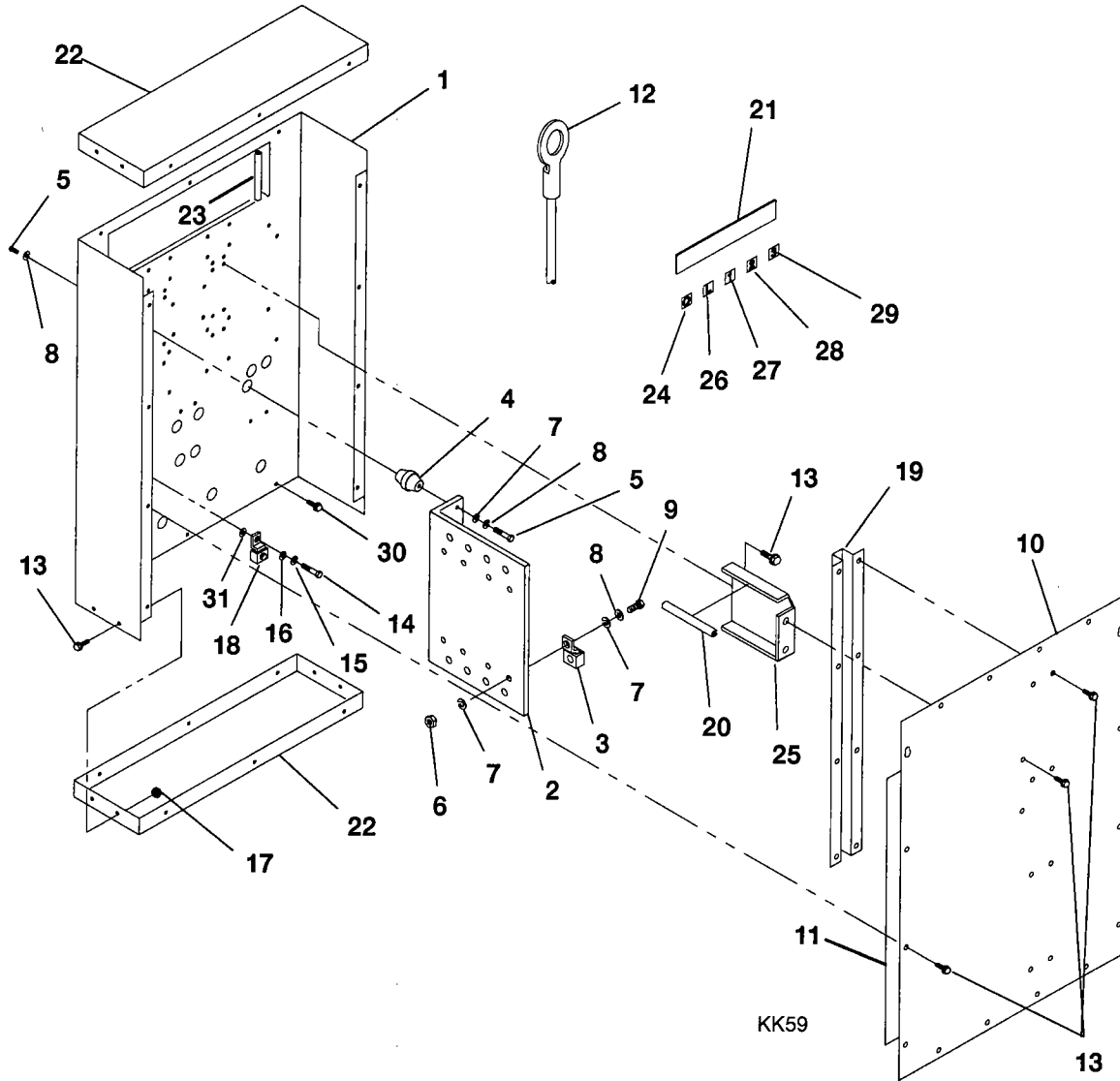


K882

Entrance Box Begin Spec C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Box, Entrance	6	319-1916	1	Cover
	319-2432	1	Spec C Through F	7			Brace, Cover
	319-3169	1	Begin Spec G		319-1918	1	Spec C Through F
2	319-1915	1	Panel (Top)		319-3284	1	Begin Spec G
3			Screw, Self-Locking – Hex	8			Brace, Cover
			Washer Head		319-1927	1	Spec C Through F
	821-5002-03	41	Spec C Through F		319-3251	1	Begin Spec G
			(1/4-20 x 1/2")	9	821-5002-04	4	Screw, Self-Locking – Hex
	821-6002-03	44	Begin Spec G (M6 x 16mm)				Washer Head (1/4-20 x 5/8")
4			Edging – Bulk (Order By The				Spec C Through F
			Foot)	10			Screw, Self-Locking – Hex
	508-1092	–	Spec C Through F – 3 Feet				Washer Head
			Required		821-0009	1	Spec C Through F
	508-1092	–	Begin Spec G – 2 Feet				(1/4-20 x 3/8")
			Required		821-2035	2	Begin Spec G (M6 x 25mm)
5			Nut, Self-Retaining	11			Panel (Bottom)
	870-0494	16	Spec C Through F (1/4-20)		319-1915	1	Spec C Through F
			Floating		319-3183	1	Begin Spec G
	870-0504	16	Begin Spec G (M6)				

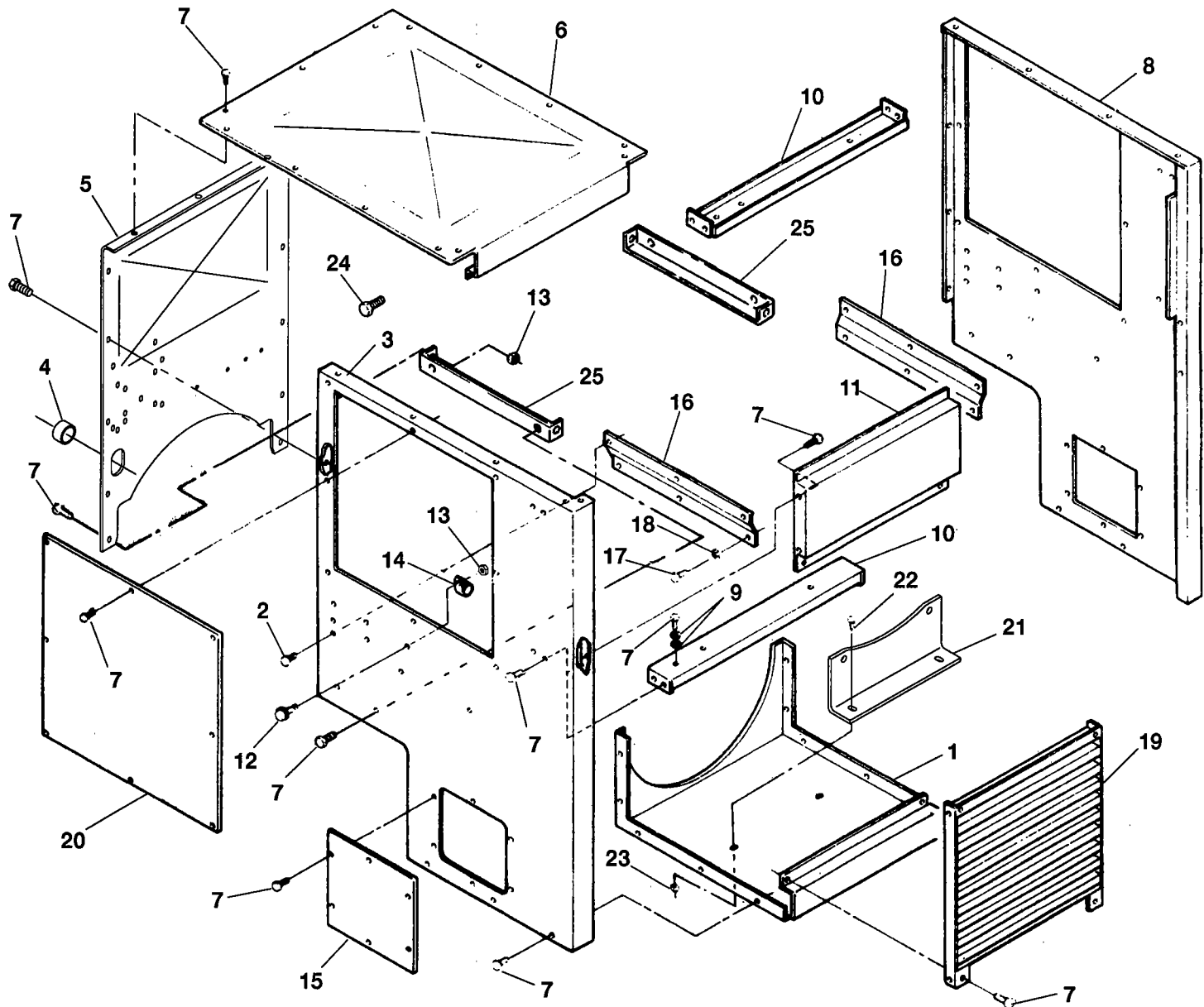
Bus Box **Begin Spec E**



Bus Box **Begin Spec E**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2727	1	Box, Bus	19	319-1918	1	Brace, Cover
2	337-2868	4	Bus, Load Connection	20	508-1107	2	Edging (8")
3	332-2001	16	Lug, Solderless	21	091-0002	1	Strip, Copper (Used For Wrapping Ends Of Leads) (Quantity Used As Required)
4	332-2744-02	8	Standoff, Insulator	22	319-1915	2	Panel
5	800-0047	16	Screw, Cap - Hex Head (3/8-16 x 5/8")	23	508-1092	-	Edging - Bulk (Order By The Foot - 3 Feet Required)
6	862-0003	16	Nut, Hex (3/8")	24	098-5854-10	1	Label, Marker (10 Characters Per Card) Marked "0"
7	526-0029	40	Washer, Flat (3/8")	25	319-1927	1	Brace, Cover
8	850-0050	32	Washer, Lock - Spring (3/8")	26	098-5854-06	4	Label, Marker (10 Characters Per Card) Marked "L"
9	800-0051	16	Screw, Cap - Hex Head (3/8-16 x 1-1/4")	27	098-5854-07	1	Label, Marker (10 Characters Per Card) Marked "1"
10	319-2726	1	Cover, Bus Box	28	098-5854-08	1	Label, Marker (10 Characters Per Card) Marked "2"
11	878-0367	1	Insulator (12" x 16")	29	098-5854-09	1	Label, Marker (10 Characters Per Card) Marked "3"
12	226-4406-08	24	Lead (36")	30	821-0018	5	Screw, Self-Locking - Hex Washer Head (1/4-20 x 5/8")
13	821-0010	40	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")	31	856-0010	1	Washer, Lock - EIT (3/8")
14	800-0050	1	Screw, Cap - Hex Head (3/8-16 x 1")				
15	850-0050	1	Washer, Lock - Spring (3/8")				
16	526-0029	1	Washer, Flat (3/8")				
17	870-0494	16	Nut, Self-Retaining - Floating (1/4-20)				
18	332-2001	1	Lug, Solderless (Grounding)				

Control Housing Spec A Through C

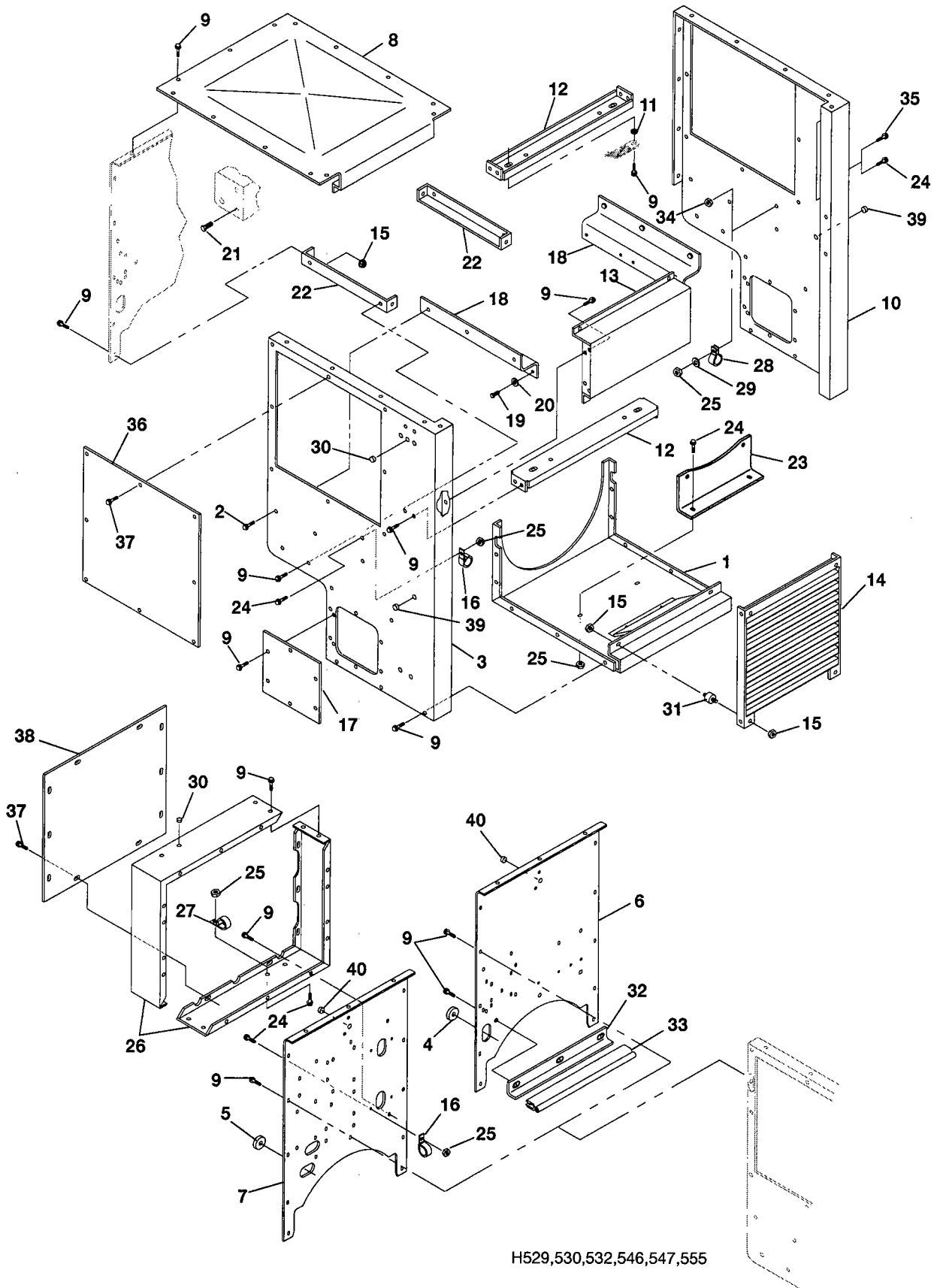


CP01

Control Housing Spec A Through C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0736	1	Panel – Bottom	14	332-2634	1	Clamp, "J"
2	821-0029	6	Screw, Self-Locking – Hex Washer Head (3/8–16 x 3/4")	15	301-9629	2	Cover, Side – Lower
3	319-0739-01	1	Panel – Right Side	16	319-0743	2	Bracket, Mounting
4	508-0051	1	Grommet, Rubber	17	800-2111	6	Screw, Cap – Hex Head (M12 x 25mm)
5	319-0737	1	Panel – Front	18	850-2012	6	Washer, Lock – Spring (M12)
6	301-9512	1	Cover, Top	19	234-0883	1	Grille
7	821-0010	88	Screw, Self-Locking – Hex Washer Head (1/4–20 x 1/2")	20	301-9511	2	Cover, Side – Upper
8	319-0739-02	1	Panel – Left Side	21	319-1345	1	Bracket, Panel
9	856-0006	2	Washer, Lock – EIT (1/4")	22	821-0016	2	Screw, Self-Locking – Hex Washer Head (5/16–18 x 3/4")
10	301-9510	2	Support, Control Box	23	870-0257	2	Nut, Locking – Hex Head (5/16–18)
11	319-0738	1	Panel – Rear	24	800-2114	2	Screw, Cap – Hex Head (M12 x 40mm)
12	821-0018	1	Screw, Self-Locking – Hex Washer Head (1/4–20 x 5/8")	25	319-0748	2	Panel, Support
13	870-0212	3	Nut, Locking – Hex Head (1/4–20)				

Control Housing Begin Spec D



H529,530,532,546,547,555

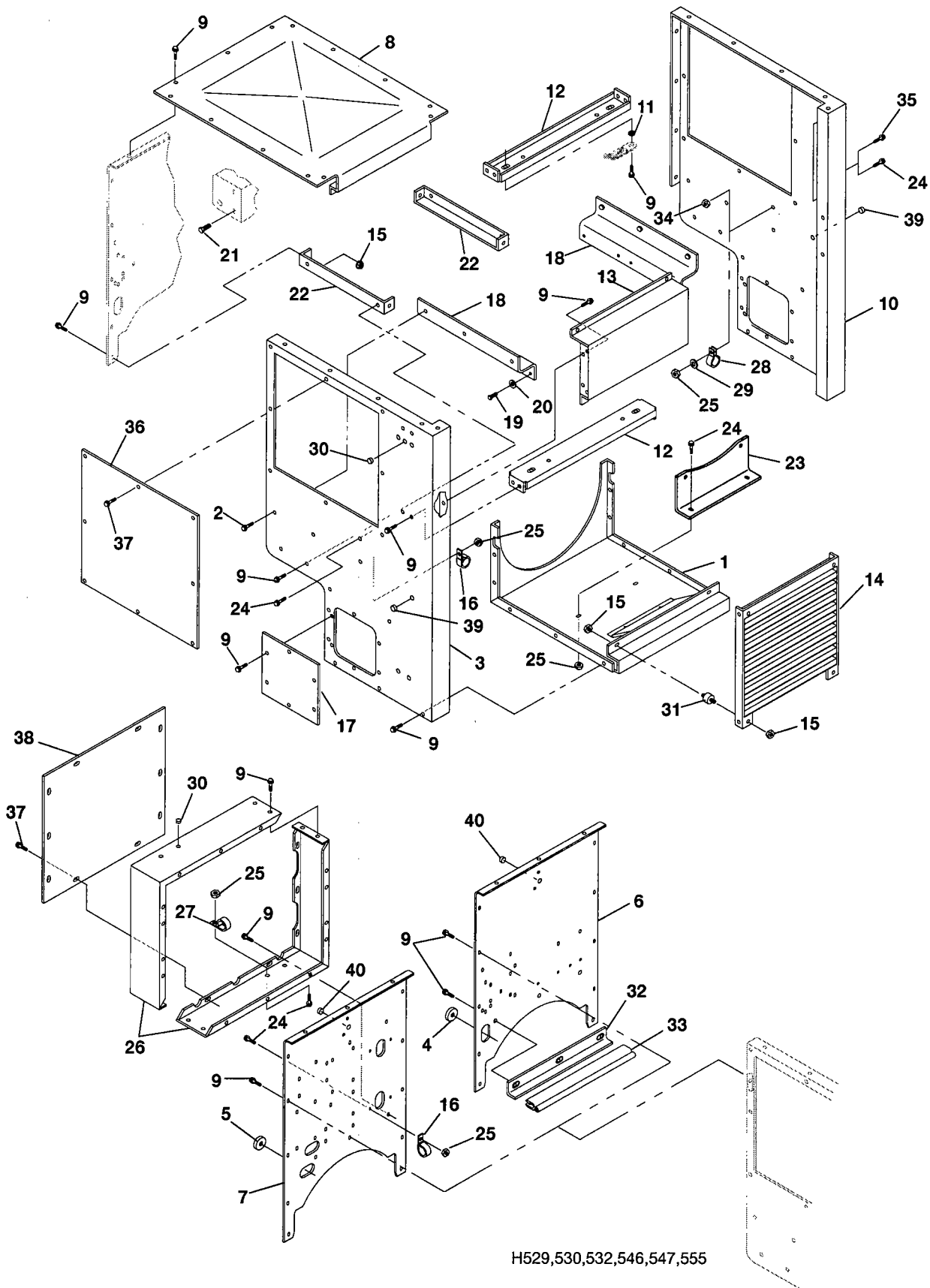
Control Housing Begin Spec D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Panel – Bottom	18			Bracket, Mounting
	319-2771-01	1	Spec D Through F		319-0743	2	Spec D Through F
	319-3270-01	1	Begin Spec G		319-3255	2	Begin Spec G
2			Screw, Self-Locking – Hex	19	800-2111	6	Screw, Cap – Hex Head
			Washer Head				(M12 x 25mm)
	821-5004-02	6	Spec D Through F	20	850-2012	6	Washer, Lock – Spring (M12)
			(3/8-16 x 3/4")	21	800-2114	1	Screw, Cap – Hex Head
	821-6004-01	6	Begin Spec G (M10 x 20mm)				(M12 x 40mm)
3			Panel – Right Side	22			Panel, Support
	319-2784-01	1	Spec D Through F		319-0748	2	Spec D Through F
	319-3287-01	1	Begin Spec G		319-3257	2	Begin Spec G
4	508-1057	1	* Grommet, Rubber	23	319-1345	1	Bracket, Panel
			(Fits 2-1/4" Hole)	24			Screw, Self-Locking – Hex
5	508-1090	4	# Grommet, Rubber				Washer Head
			(Fits 3-1/4" Hole)				Sets With Detector Control
6			Panel – Front		821-5003-03	4	* Spec D Through F
	319-2785	1	* Spec D Through F				(5/16-18 x 3/4")
	319-3289	1	* Begin Spec G		821-6003-02	4	* Begin Spec G (M8 x 20mm)
7			Panel – Front				Sets With PowerCommand Control
	319-2218	1	# Spec D Through F		821-5003-03	6	# Spec D Through F
	319-3274	1	# Begin Spec G				(5/16-18 x 3/4")
8	301-9512	1	Cover, Top		821-6003-02	6	# Begin Spec G
9			Screw, Self-Locking – Hex				(M8 x 20mm)
			Washer Head				Nut, Locking – Hex Head
			Sets With Detector Control	25			Sets With Detector Control
	821-5002-03	62	* Spec D Through F		870-0257	4	* Spec D Through F (5/16-18)
			(1/4-20 x 1/2")		870-2055	4	* Begin Spec G (M8)
	821-6002-03	62	* Begin Spec G (M6 x 16mm)				Sets With PowerCommand Control
			Sets With PowerCommand Control				Sets With PowerCommand Control
	821-5002-03	69	# Spec D Through F		870-0257	6	# Spec D Through F
			(1/4-20 x 1/2")				(5/16-18)
	821-6002-03	69	# Begin Spec G		870-2055	6	# Begin Spec G (M8)
			(M6 x 16mm)	26			Wrapper, Control Box
10			Panel – Left Side		319-2476	2	# Spec D Through F
	319-2784-02	1	Spec D Through F		319-3278	2	# Begin Spec G
	319-3287-02	1	Begin Spec G	27	332-2634	2	# Clamp, "J"
11			Washer, Lock – W/EIT (1/4")	28	518-0548-24	1	# Clamp, Retainer
	856-0006	1	* Sets With Detector Control	29			Washer, Flat
	856-0006	2	# Sets With PowerCommand Control		526-0399-16	1	# Spec D Through F (5/16")
					526-2100	1	# Begin Spec G (M8)
12			Support, Control Box				Plug, Hole (Fits 3/8" Hole)
	301-9510	2	Spec D Through F	30	517-0131	1	* Sets With Detector Control –
	319-3294	2	Begin Spec G				Begin Spec G
13	319-2776	1	Panel – Rear				Sets With PowerCommand
14	319-2768	1	Grille				Control
15			Nut, Locking – Hex Flange Head		517-0131	2	# Spec D Through F
	870-0550-05	10	Spec D Through F (1/4-20)		517-0131	3	# Begin Spec G
	870-2054	8	Begin Spec G (M6)				
16			Clamp, "J"				
	332-2634	2	* Sets With Detector Control				
	332-2634	1	# Sets With PowerCommand Control				
17	301-9629	2	Cover, Side – Lower				

* – Parts Used On Sets With Detector Control
– Parts Used On Sets With PowerCommand Control

Continued...

Control Housing Begin Spec D



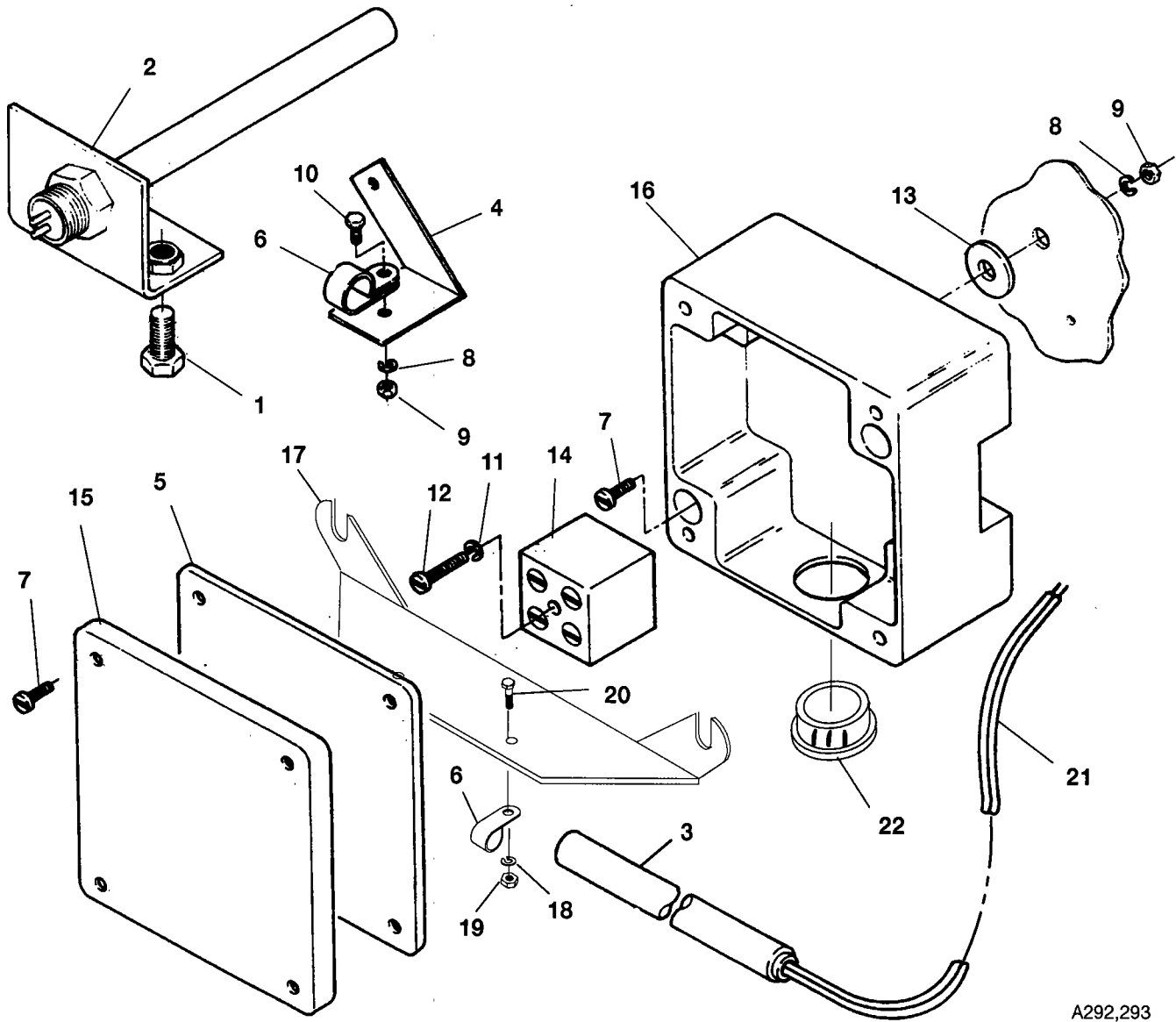
H529,530,532,546,547,555

Control Housing Begin Spec D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				38	319-2220	1	#Cover, Control Box
				39	517-0136	2	Plug, Hole (Fits 3/4" Hole) Begin Spec G
31	402-0508	4	Isolator, Vibration Spec D Through F	40	517-0135	1	Plug, Hole (Fits 5/8" Hole) Begin Spec G
	402-0729	4	Begin Spec G				
32			Angle, Stiffener				
	319-2787	1	* Spec D Through F				
	319-3291	1	* Begin Spec G				
33	508-1109	-	*Edging - Bulk (1/4") (Order By The Foot - 1 Foot Required)				
34			Nut, Locking - Hex Head (Used As A Plug)				
	870-0257	1	* Spec D Through F (5/16-18)				
	870-2055	1	* Begin Spec G (M8)				
35			Screw, Self-Locking - Hex Washer Head (Used As A Plug)				
	821-5003-03	1	* Spec D Through F (5/16-18 x 3/4")				
	821-6003-02	1	* Begin Spec G (M8 x 20mm)				
36			Cover, Side - Upper				
	301-9511	2	Without Circuit Breaker, Entrance Box or BUS Box				
	301-9511	1	With Circuit Breaker, Entrance Box or BUS Box				
37			Screw, Self-Locking - Hex Washer Head				
			Sets With Detector Control				
			Without Circuit Breaker, Entrance Box or BUS Box				
	821-5002-03	16	* Spec D Through F (1/4-20 x 1/2")				
	821-6002-03	16	* Begin Spec G (M6 x 20mm)				
			With Circuit Breaker, Entrance Box or BUS Box				
	821-5002-03	8	* Spec D Through F (1/4-20 x 1/2")				
	821-6002-03	8	* Begin Spec G (M6 x 20mm)				
			Sets With PowerCommand Control				
			Without Circuit Breaker, Entrance Box or BUS Box				
	821-5002-03	26	# Spec D Through F (1/4-20 x 1/2")				
	821-6002-03	26	# Begin Spec G (M6 x 20mm)				
			With Circuit Breaker, Entrance Box or BUS Box				
	821-5002-03	18	# Spec D Through F (1/4-20 x 1/2")				
	821-6002-03	18	# Begin Spec G (M6 x 20mm)				

* - Parts Used On Sets With Detector Control
- Parts Used On Sets With PowerCommand Control

Generator Heater

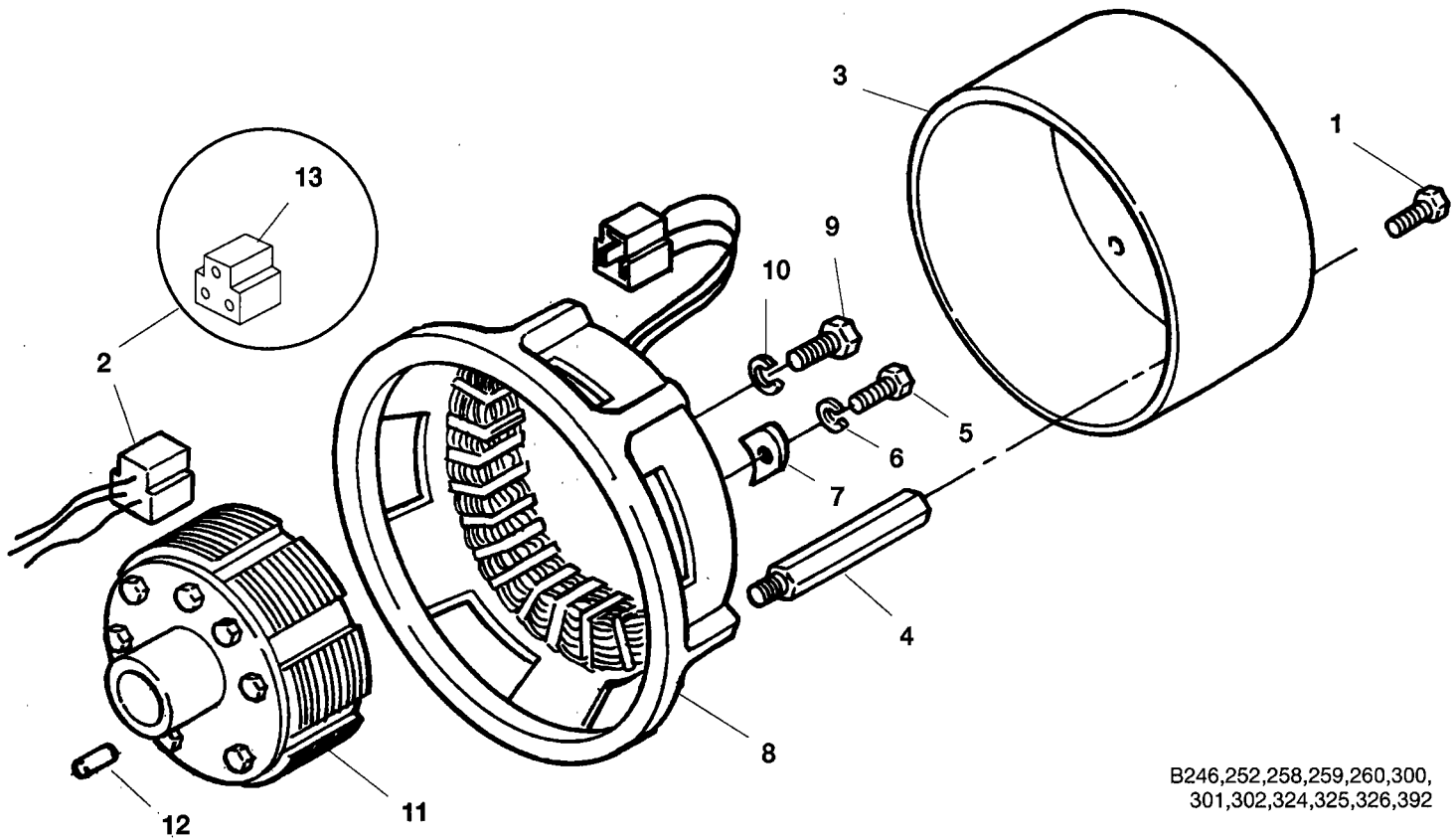


A292,293

Generator Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-2010	4	Screw, Cap – Hex Head (M5 x 20mm) (Used On Some Early Models)	10	800-4074	2	Screw, Machine – Hex Head (M4 x 13mm) Used Approximately During Spec A And B)
2			Heater, Generator (Includes Mounting Brackets And Terminal Block) (Used On Some Early Models)	11	850-2003	1	Washer, Lock – Spring (M3)
	333-0382-02	1	120 Volt	12	822-3047	1	Screw, Machine – Pan Head (M3 x 20mm)
	333-0382-07	1	240 Volt	13	508-0228	1	Grommet
3			Cartridge, Heater (150 Watt)	14	332-3023	1	Block, Terminal
	333-0438-03	2	120 Volt	15	330-0141-03	1	Cover, Box
	333-0438-04	2	240 Volt	16	330-0142	1	Box, Terminal
4			Bracket, Mounting – Heater (Used Approximately During Spec A And B)	17	232-3850	1	Bracket, Mounting – Heater (Used Approximately Beginning With Spec C)
	232-3543	1	Left Side	18	850-2005	2	Washer, Lock – Spring (M5) (Used Approximately Beginning With Spec C)
	232-3544	1	Right Side	19	860-2006	2	Nut, Hex (M5) (Used Approximately Beginning With Spec C)
5	330-0141-04	1	Gasket, Cover	20	800-2008	2	Screw, Cap – Hex Head (M5 x 16mm) (Used Approximately Beginning With Spec C)
6			Clamp, Loop	21	898-1254-25	1	Sleeving – Heater Leads (59") (Used Approximately Beginning With Spec C)
	332-3024-14	2	Used Approximately During Spec A And B	22	517-0021	1	Plug, Dot Button (Used Approximately Beginning With Spec C)
	332-3024-14	4	Used Approximately Beginning With Spec C				
7	822-3075	6	Screw, Machine – Slotted Pan Head (M4 x 16mm)				
8			Washer, Lock – Spring (M4)				
	850-2004	4	Used Approximately During Spec A And B				
	850-2004	2	Used Approximately Beginning With Spec C				
9			Nut, Hex (M4)				
	860-2005	4	Used Approximately During Spec A And B				
	860-2005	2	Used Approximately Beginning With Spec C				

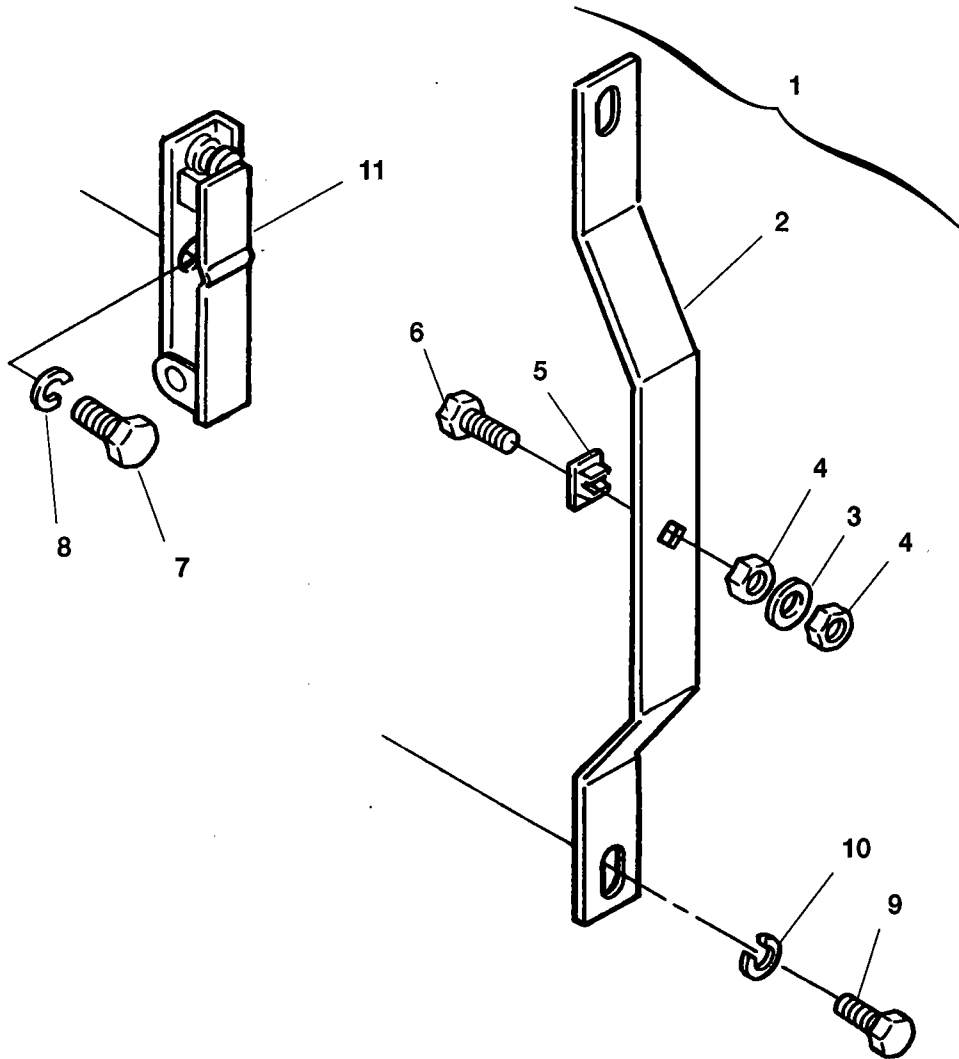
Permanent Magnet Exciter



B246,252,258,259,260,300,
301,302,324,325,326,392

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-6001-02	3	Screw, Self-Locking – Hex Washer Head (M5 x 12mm)	4	232-3527	3	Spacer, Mounting
2	249-0642	1	Harness, Wiring – PMG Spec A and B – Permanent Magnet Exciter To AUX Terminal Strip (Universal Replacement)	5	800-3017-18	4	Screw, Cap – Hex Head (M8 x 16mm)
	338-2508	1	Begin Spec C (3 Wire, 30") (Includes Housing Connector) (P2, P3, P4 to P2, P3, P4)	6	850-0114-54	4	Washer, Lock – Spring (M8)
3	234-0890	1	Cover	7	232-3526	4	Clamp, Stator
				8	220-4249	1	Stator, Exciter – PMG
				9	815-0761	1	Bolt, Hex Head (M10 x 110mm)
				10	850-2010	1	Washer, Lock – Spring (M10)
				11	201-3455	1	Rotor, Exciter – PMG
				12	775-0049	1	Pin
				13	332-3021	1	Connector, Housing (3 Place) Begin Spec C

Overspeed Switch Spec A and B

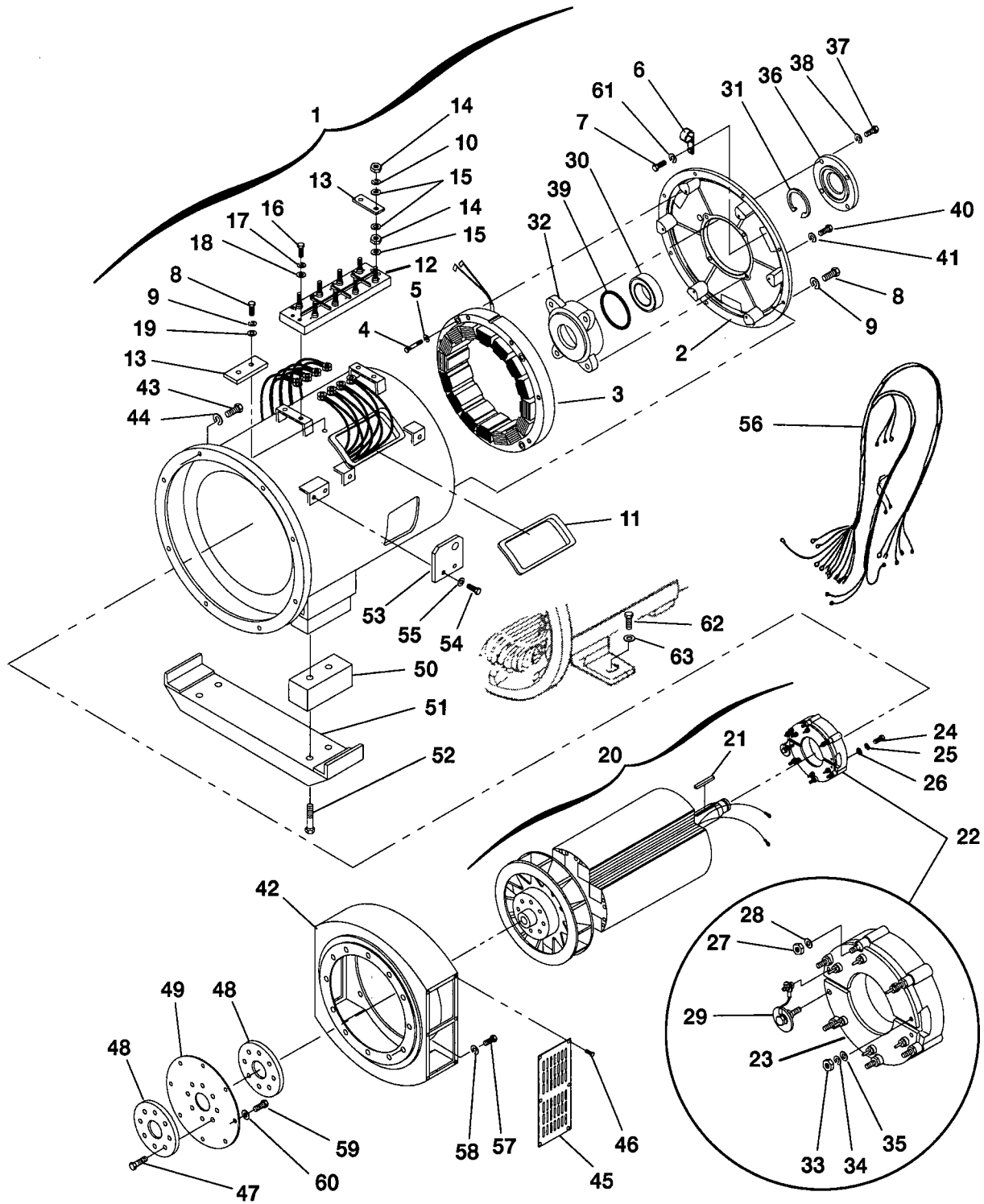


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2139	1	Bracket and Point Assembly (Includes Parts Marked *)
2	150-2138	1	*Bracket, Mounting
3	853-0013	1	*Washer, Lock – ET (1/4")
4	862-0001	2	*Nut, Hex (1/4-20)
5	870-0250	1	*Nut, Insulator
6	150-0723	1	*Point, Contact
7	800-2088	1	Screw, Cap – Hex Head (M10 x 35mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	850-2010	1	Washer, Lock – Spring (M10)
9	800-2056	2	Screw, Cap – Hex Head (M8 x 16mm)
10	850-2008	2	Washer, Lock – Spring (M8)
11	150-0956	1	Switch, Overspeed (S3)

* – Parts Included In 150-2139 Bracket And Point Assembly

Generator

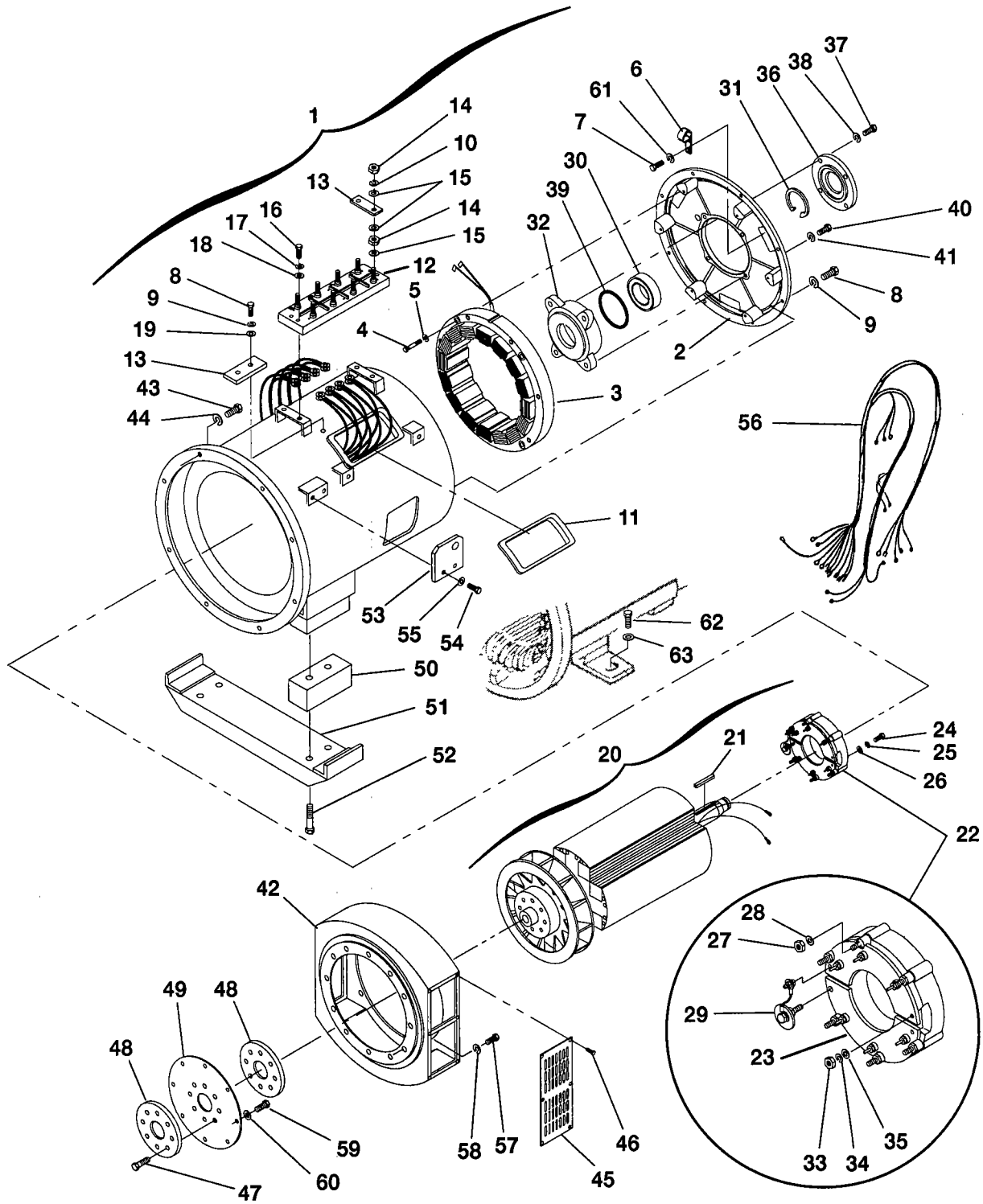


B246,252,258,259,260,300,
301,302,324,325,326,392

Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	—	1	Stator Assembly, Generator – Complete (See Separate Page For Part Numbers) (Includes Parts Marked *) Begin Spec C	29	249–0797	1	Kit, Diode (Includes Varistor And All Diodes) Begin Spec C
2	211–0431	1	*Bell, End – Begin Spec C	30	510–0168	1	#Bearing, Ball
3	220–4248	1	*Stator, Exciter	31	518–0018	1	#Ring, Retaining
4			*Screw, Cap – Hex Head	32	232–3518–01	1	#Housing, Bearing
	800–2043	6	M6 x 65mm – Spec A,B	33	860–2006	2	#Nut, Hex (M5) Begin Spec C
	800–2066	6	M8 x 65mm – Begin Spec C	34	850–2005	2	#Washer, Lock – Spring (M5) Begin Spec C
5			*Washer, Lock – Spring	35	526–2060	2	#Washer, Flat (M5) Begin Spec C
	850–2006	6	M6 – Spec A,B	36			Cover, Bearing Housing
	850–2008	6	M8 – Begin Spec C		232–3519–01	1	Spec A,B
6	425–1799	1	*Clamp, Cable – Begin Spec C		232–3981–01	1	# Begin Spec C
7	800–2004	1	*Screw, Cap – Hex Head (M5 x 12mm) Begin Spec C	37	800–2087	4	#Screw, Cap – Hex Head (M10 x 30mm)
8	800–3017–39	9	*Screw, Cap – Hex Head (M10 x 35mm)	38	850–2010	4	#Washer, Lock – Spring (M10)
9	850–0114–55	9	*Washer, Lock – Spring (M10)	39	509–0266–03	1	#O–Ring – Begin Spec C
10	850–2012	8	*Washer, Lock – Spring (M12) Begin Spec C	40			Screw, Cap – Hex Head
11	508–0306	2	*Grommet – Begin Spec C		800–2528	4	M10 x 30mm – Spec A,B
12	232–3482	1	*Panel, Terminal – Begin Spec C		800–2091	4	M10 x 50mm – Begin Spec C
13	332–3009	4	*Link, Terminal – Begin Spec C	41	850–2010	4	Washer, Lock – Spring (M10)
14	860–2010	16	*Nut, Hex (M12) Begin Spec C	42	231–0322	1	Adapter, Generator – Begin Spec C
15	526–2140	24	*Washer, Flat (M12) Begin Spec C	43			Screw – Begin Spec C
16	800–2061	4	*Screw, Cap – Hex Head (M8 x 40mm) Begin Spec C		800–3017–56	6	Cap – Hex Head (M12 x 40mm)
17	850–2008	4	*Washer, Lock – Spring (M8) Begin Spec C		725–1103	2	Socket Head (M12 x 40mm) (Bottom Holes)
18	526–2100	4	*Washer, Flat (M8) Begin Spec C	44	850–0114–56	8	Washer, Lock – Spring (M12) Begin Spec C
19	526–2120	1	*Washer, Flat (M10) Begin Spec C	45	234–0889	2	Guard, Fan – Begin Spec C
20	—	1	Rotor Assembly, Generator – Complete (See Separate Page For Part Numbers) (Includes Parts Marked #) Begin Spec C	46	821–6001–02	12	Screw, Self–Locking – Hex Washer Head (M5 x 12mm) Begin Spec C
21	515–0300–01	1	#Key	47	720–1146	8	Screw, Cap – Hex Head (M20 x 60mm) Begin Spec C
22			Rotor Assembly, Exciter	* – Parts Included In Generator Stator Assemblies Begin Spec C # – Parts Included In Generator Rotor Assemblies Begin Spec C ^ – Parts Included In 201–3460 Exciter Rotor Assembly Begin Spec C			
	201–3454	1	Spec A,B				
	201–3460	1	# Begin Spec C (Includes Parts Marked^)				
23	357–0093	1	#^Rectifier Assembly (Includes Diodes and Varistor)	Continued...			
24			Screw, Cap – Hex Head				
	800–2043	4	M6 x 65mm – Spec A,B				
	800–2042	4	#^ M6 x 60mm – Begin Spec C				
25	850–2006	4	#^Washer, Lock – Spring (M6)				
26	526–2080	4	#^Washer, Flat (M6)				
27			Nut, Hex				
	860–2006	6	M5 – Spec A,B				
	870–2064–02	6	#^ M5 – Begin Spec C				
28			Washer				
	850–2005	6	Lock – Spring (M5) Spec A,B				
	526–2060	6	#^ Flat (M5) Begin Spec C				

Generator

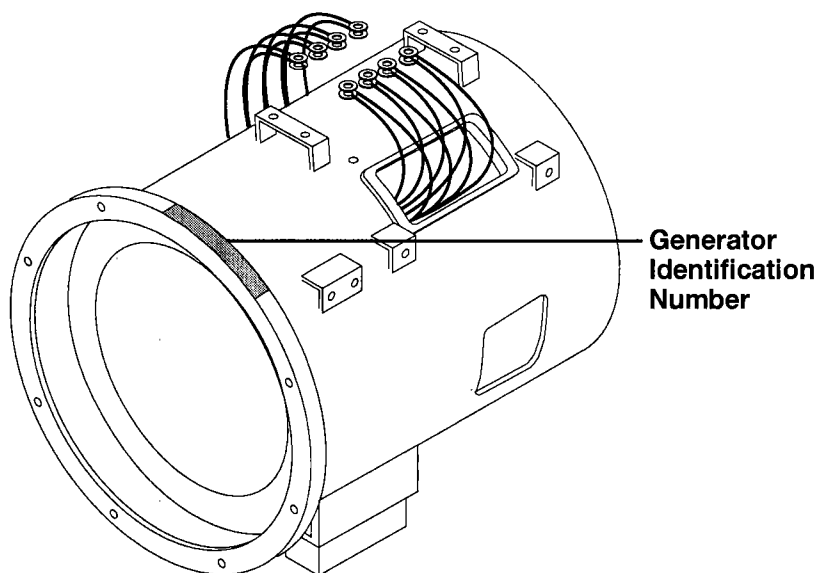


B246,252,258,259,260,300,
301,302,324,325,326,392

Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				57			Screw, Cap – Hex Head
				800-0073	12		7/16-14 x 1-1/2" – Spec A,B
				800-0074	12		7/16-14 x 1-3/4" – Begin Spec C
48	232-3520-01	2	Spacer, Drive Disc – Begin Spec C	58	850-0055	12	Washer, Lock – Spring (7/16")
49	232-3522	4	Disc, Drive – Begin Spec C	59	805-0032	8	Bolt, Place (1/2-13 x 1-1/4")
50	232-3524	2	Spacer, Generator Foot – Begin Spec C	60	526-0035	8	Washer, Flat (1/2")
51	232-3722	1	Foot, Generator – Begin Spec C	61	850-2005	1	*Washer, Lock – Spring (M5) Begin Spec C
52	800-2244	4	Screw, Cap – Hex Head (M24 x 80mm) Begin Spec C	62	800-0183	2	Screw, Cap – Hex Head (1-8 x 2-1/2") Spec A,B
53	232-3523	2	Bracket, Generator Lifting – Begin Spec C	63	850-0086	2	Washer, Lock – Spring (1") Spec A,B
54	800-3017-55	4	Screw, Cap – Hex Head (M12 x 35mm) Begin Spec C	* – Parts Included In Generator Stator Assemblies Begin Spec C # – Parts Included In Generator Rotor Assemblies Begin Spec C ^ – Parts Included In 201-3460 Exciter Rotor Assembly Begin Spec C			
55	850-0114-56	4	Washer, Lock – Spring (M12) Begin Spec C				
56	338-3348	1	Harness, Wiring (5 Wire, 23") (4,5,6,7,8 to 4,5,6,7,8) (Not Used On All Models) Begin Spec C				

Generator Rotor and Stator Part Numbers Begin Spec C

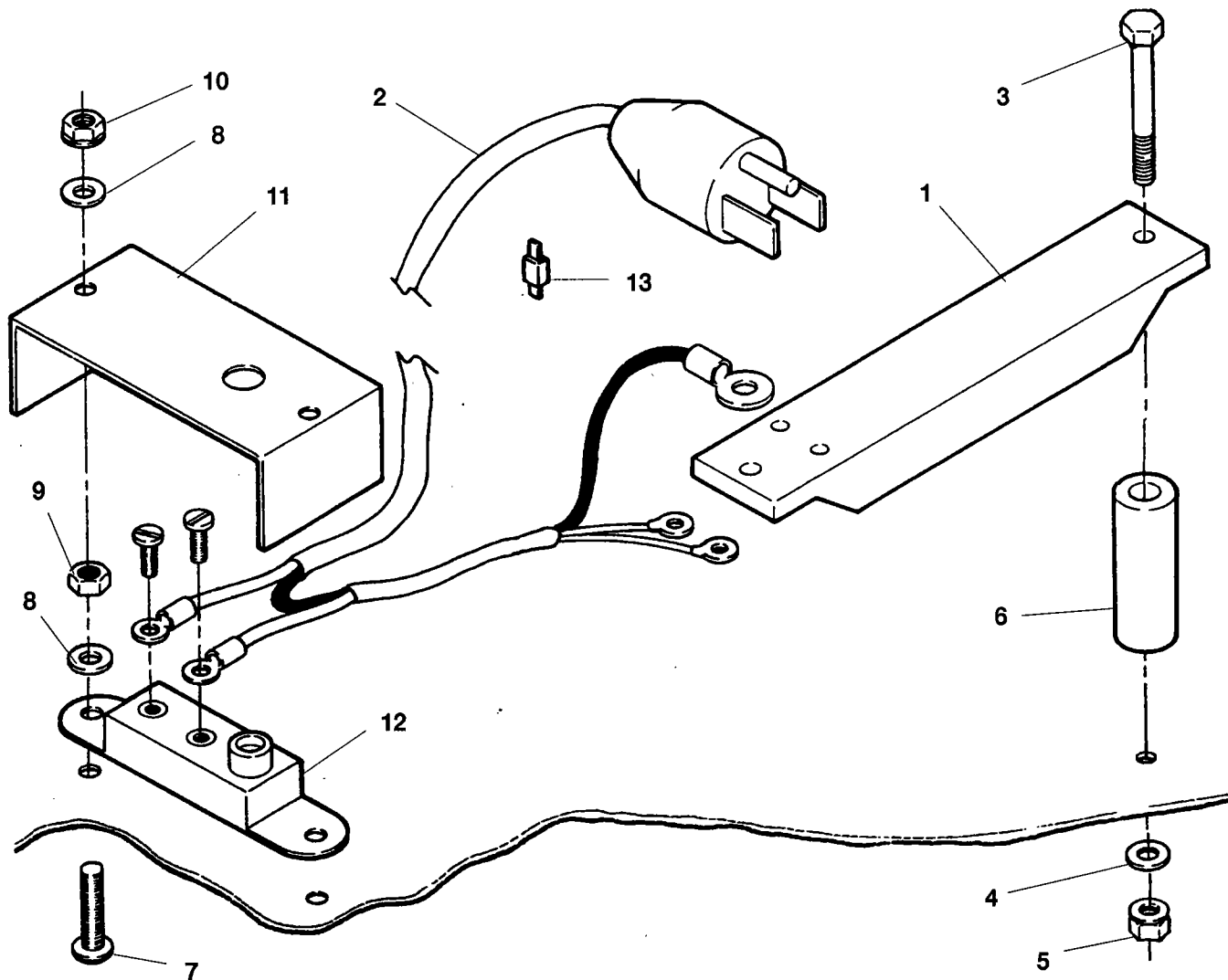


Service replacement part numbers for the main generator stator and rotor can be determined by locating the Cummins/Onan 249-XXXX-XX generator identification number. This number is stamped on the engine end of the main stator adapter ring in the area shown in the above illustration. Find the corresponding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

Component parts that are included with the main stator and rotor are listed on the Generator pages of this catalog.

Cummins/Onan Identification Number	Stator Assembly Part Number	Rotor Assembly Part Number
249-0168-02	220-4252-01	201-3459-01
249-0168-03	220-4252-02	201-3459-02
249-0168-04	220-4252-03	201-3459-03
249-0168-05	220-4252-04	201-3459-04
249-0171-02	220-4252-07	201-3459-01
249-0171-03	220-4252-08	201-3459-02
249-0171-04	220-4252-09	201-3459-03
249-5080-02	220-4468-01	201-3459-01
249-5080-03	220-4468-02	201-3459-02
249-5080-04	220-4468-03	201-3459-03
249-5080-05	220-4468-04	201-3459-04
249-5081-02	220-4468-07	201-3459-01
249-5081-03	220-4468-08	201-3459-02
249-5081-04	220-4468-09	201-3459-03

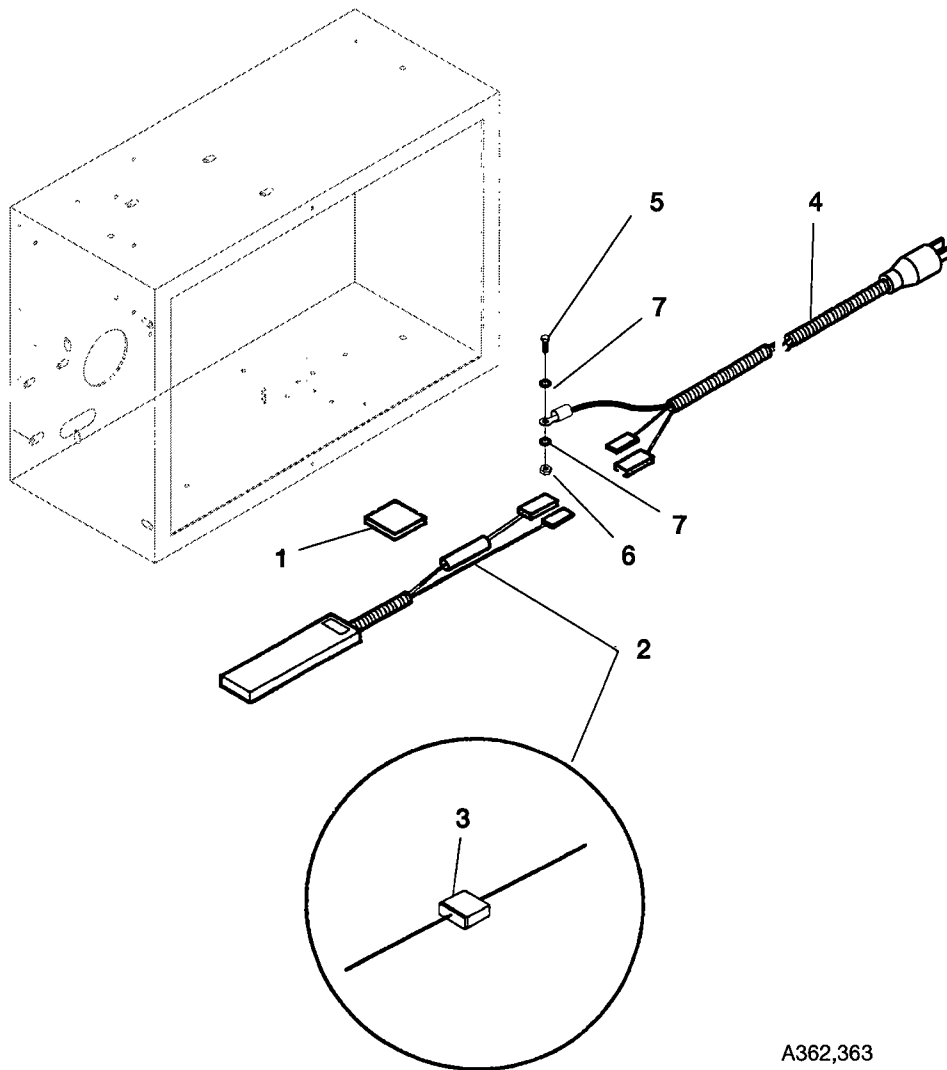
**Control Heater
Generator Sets With Detector Control
Spec A through C**



A167

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0151	1	Heater (HR1)	5	870-0257	2	Nut, Self-Locking - Hex Head (5/16-18)
	333-0378	1	75 Watt, 120 Volt	6	130-1107	2	Spacer
2			150 Watt, 240 Volt	7	812-0070	2	Screw, Machine - Round Head (#6-32 x 1-1/4")
	335-0161	1	Harness, Wiring (P1)	8	854-0006	4	Washer, Lock - IT (#6)
	338-2181	1	120 Volt Heater (7")	9	860-0006	2	Nut, Hex (#6-32)
			240 Volt Heater - Includes Diode (Three Prong Plug Not Included)	10	870-0183	2	Nut, Hex - W/ET (#6-32)
3	800-0034	2		11	301-1886	1	Cover
			Screw, Cap - Hex Head (5/16-18 x 2-1/4")	12	309-0128	1	Thermostat - Adjustable (S1)
4	526-0113	2		13	357-0013	1	Diode (3 Amp, 400 Volt DC)
			Washer, Flat (5/16")				

**Control Heater
Generator Sets With Detector Control
Begin Spec D**

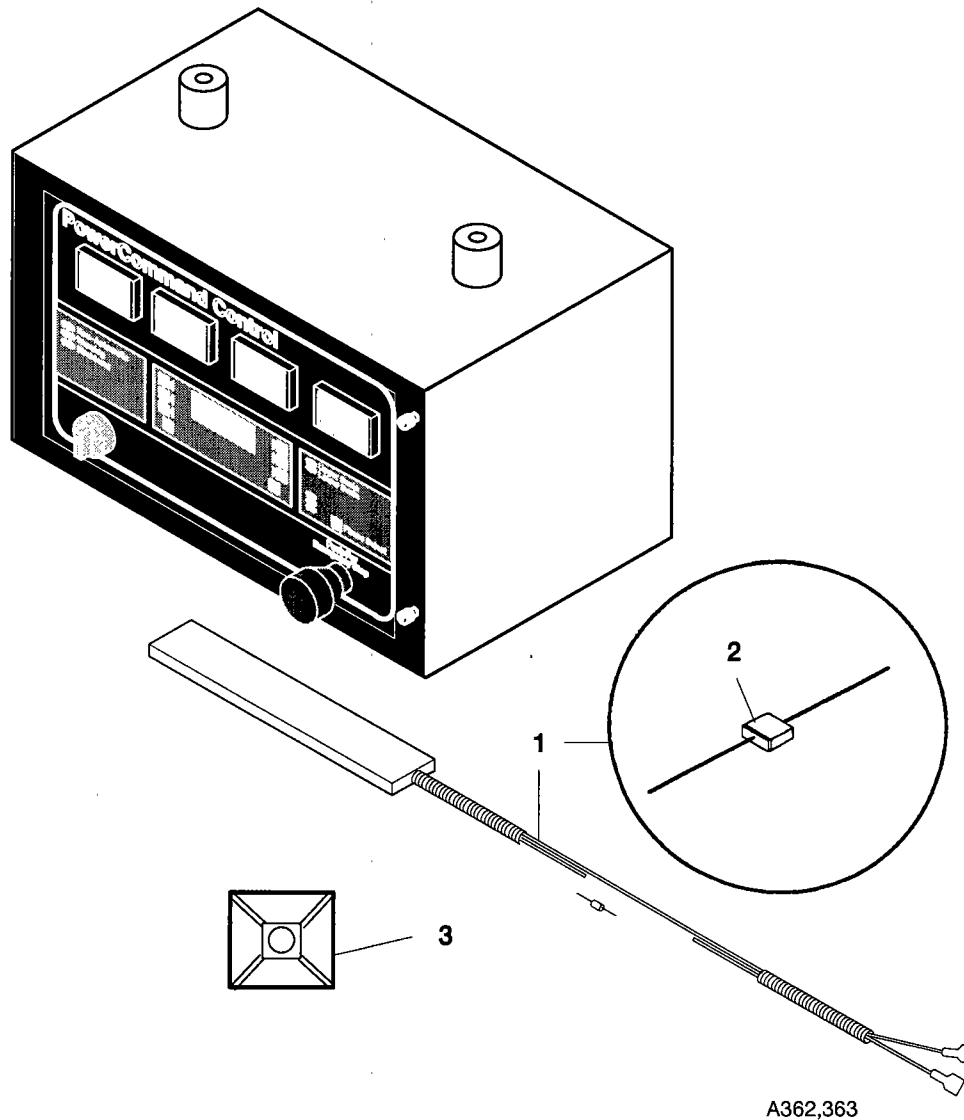


A362,363

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

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

**Control Heater
Generator Sets With PowerCommand Control
Begin Spec D**



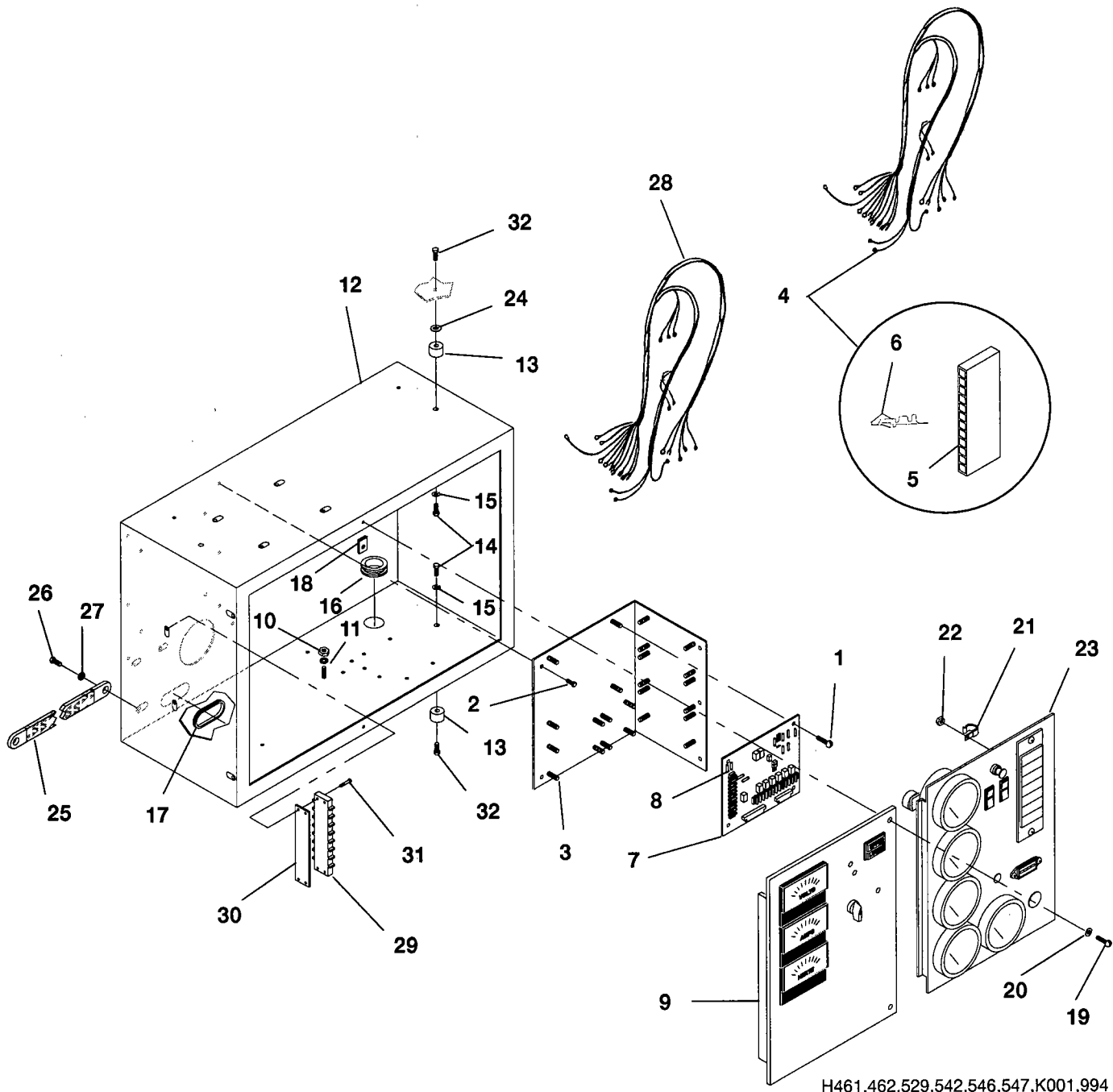
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater Assembly, Control – 100 Watt (Includes Rectifier)	2	357-0114	1	Rectifier (3 Amp)
	300-4515-01	1	120 Volt	3	332-3338	1	Mount, Cable
	300-4515-02	1	240 Volt				

This exploded view diagram illustrates the assembly of a 19-inch rack-mountable power supply unit. The main components are labeled with numbers 1 through 23. The diagram shows the front panel (1) being attached to the rear of the power supply unit (2) using screws (13, 14, 16, 17, 18, 19, 20, 21). The power supply unit (2) is shown with its internal components, including the main power supply (3) and the control board (4). The control board (4) is connected to the power supply unit (2) via a cable (5) and a connector (6). The power supply unit (2) is also connected to the main power supply (3) via a cable (7) and a connector (8). The main power supply (3) is connected to the control board (4) via a cable (9) and a connector (10). The control board (4) is connected to the power supply unit (2) via a cable (11) and a connector (12). The power supply unit (2) is connected to the main power supply (3) via a cable (13) and a connector (14). The main power supply (3) is connected to the control board (4) via a cable (15) and a connector (16). The control board (4) is connected to the power supply unit (2) via a cable (17) and a connector (18). The power supply unit (2) is connected to the main power supply (3) via a cable (19) and a connector (20). The main power supply (3) is connected to the control board (4) via a cable (21) and a connector (22). The control board (4) is connected to the power supply unit (2) via a cable (23) and a connector (24).

Remote Control Spec A and B

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

Detector Control

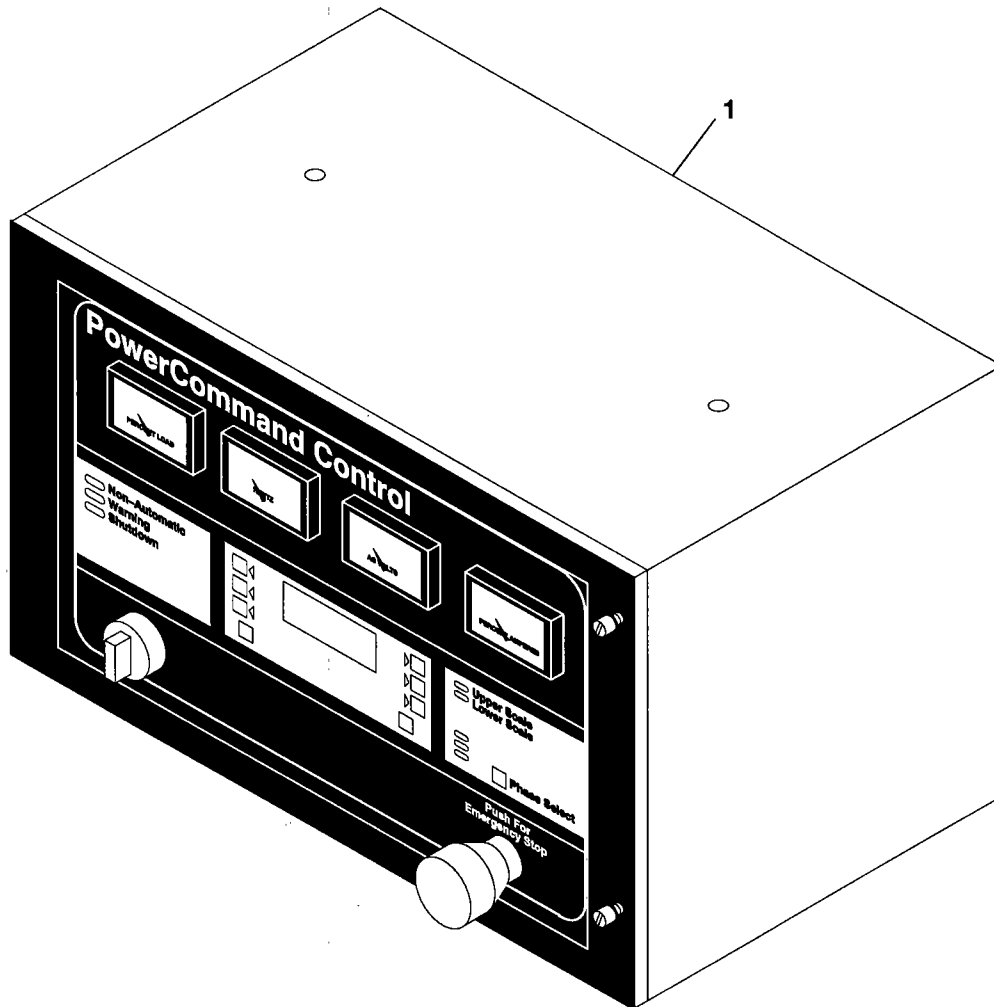


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Detector Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0544	4	Screw, Machine – Round Head – Cross Recessed W/IT (#6-32 x 1/2")	10	871-0015	1	Nut, Hex (1/4-20)
2	821-0004	8	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16")	11	853-0013	1	Washer, Lock – W/ET (1/4")
3	301-8851	1	Bracket, Mounting	12	301-8065	1	Box, Control
4			Harness, Wiring – DC Control	13	402-0527	4	Isolator, Vibration
			Door Assembly to Engine	14	800-0045	4	Screw, Cap – Hex Head (5/16-18 x 3/8")
			Monitor Board (Includes Connector Housing and Contact Pins)	15	850-0045	4	Washer, Lock – Spring (5/16")
	338-2277	1	Spec A and B	16	508-0001	1	Grommet (Fits 1-1/16" Hole)
	338-3252	1	Begin Spec C	17	508-0051	1	Grommet (Fits 2" Hole)
5	323-1308	1	Housing, Connector (12 Place) (J4)	18	406-0332	2	Receptacle, Fastener
6			Pin, Contact	19	406-0333	2	Stud, Fastener
	323-1302	12	Spec A and B	20	406-0334	2	Washer, Stud Retainer
	323-1302	11	Begin Spec C	21	332-0052	2	Clip, Wire
7			Board Assembly, Printed Circuit – Engine Monitor (Includes Fuses) (A11)	22	870-0131	6	Nut, Hex – W/ET (#10-32)
	300-4295	1	7 Light Control	23	–	–	Door, Assembly – Control – DC (See Separate Page For Components)
	300-4297	1	12 Light Control	24	526-0013	2	Washer, Flat (25/64")
8			Fuse	25			Strap, Ground
			Cylinder Shaped (Used Approximately During Spec A and B)		337-0049	1	Spec A and B
	321-0270	2	20 Amp (F1,F2)		337-0049	3	Begin Spec C
	321-0231	1	15 Amp (F3)	26	800-0024	3	Screw, Cap – Hex Head (5/16-18 x 1/2")
	321-0094	2	5 Amp (F4,F5)	27	856-0008	3	Washer, Lock – W/EIT (5/16")
			U Shaped (Used Approximately Begin Spec C)	28	338-2278	1	Harness, Wiring – AC Control Door Assembly to TB21 Terminal Block (Includes TB21 Terminal Block)
	321-0307-03	2	5 Amp (Tan) (F4, F5)	29	332-0607	1	Block, Terminal – 12 Place (TB21)
	321-0307-06	1	15 Amp (Light Blue) (F3)	30	332-2723	1	Strip, Marker
	321-0307-07	2	20 Amp (Yellow) (F1, F2)	31	812-0065	2	Screw, Machine – Hex Head (#6-32 x 5/8")
9	–	–	Door Assembly – Control – AC (See Separate Page For Components)	32	821-0014	4	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")

PowerCommand Control Begin Spec D



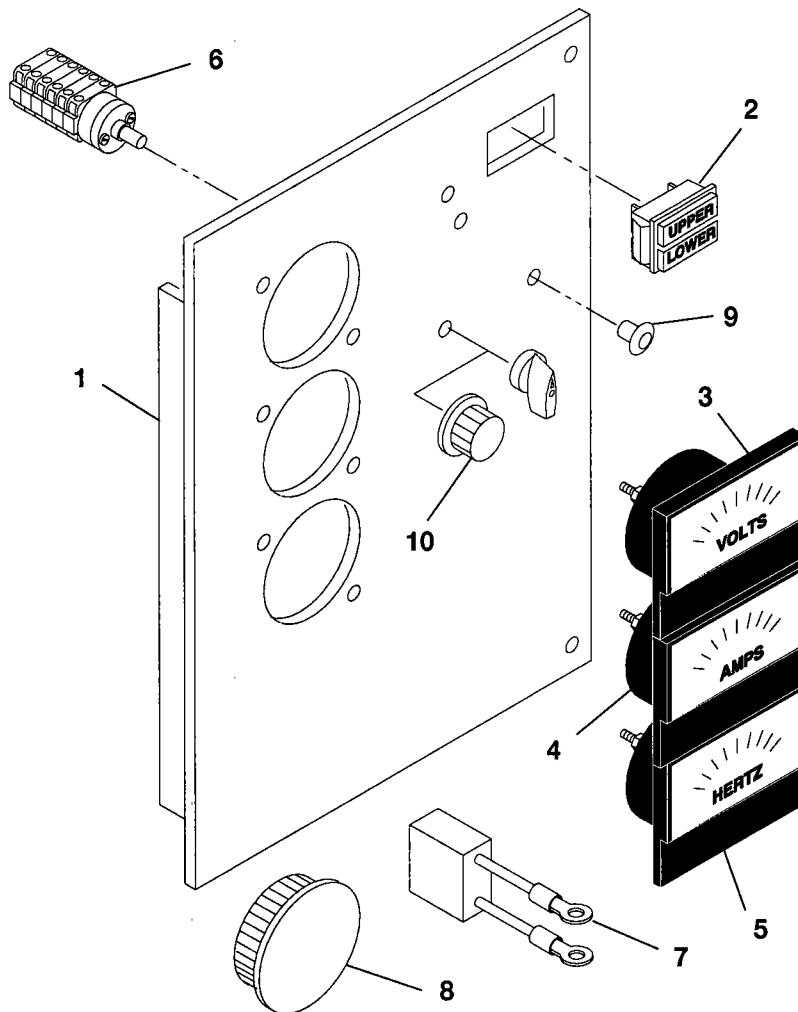
H530,532,555

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

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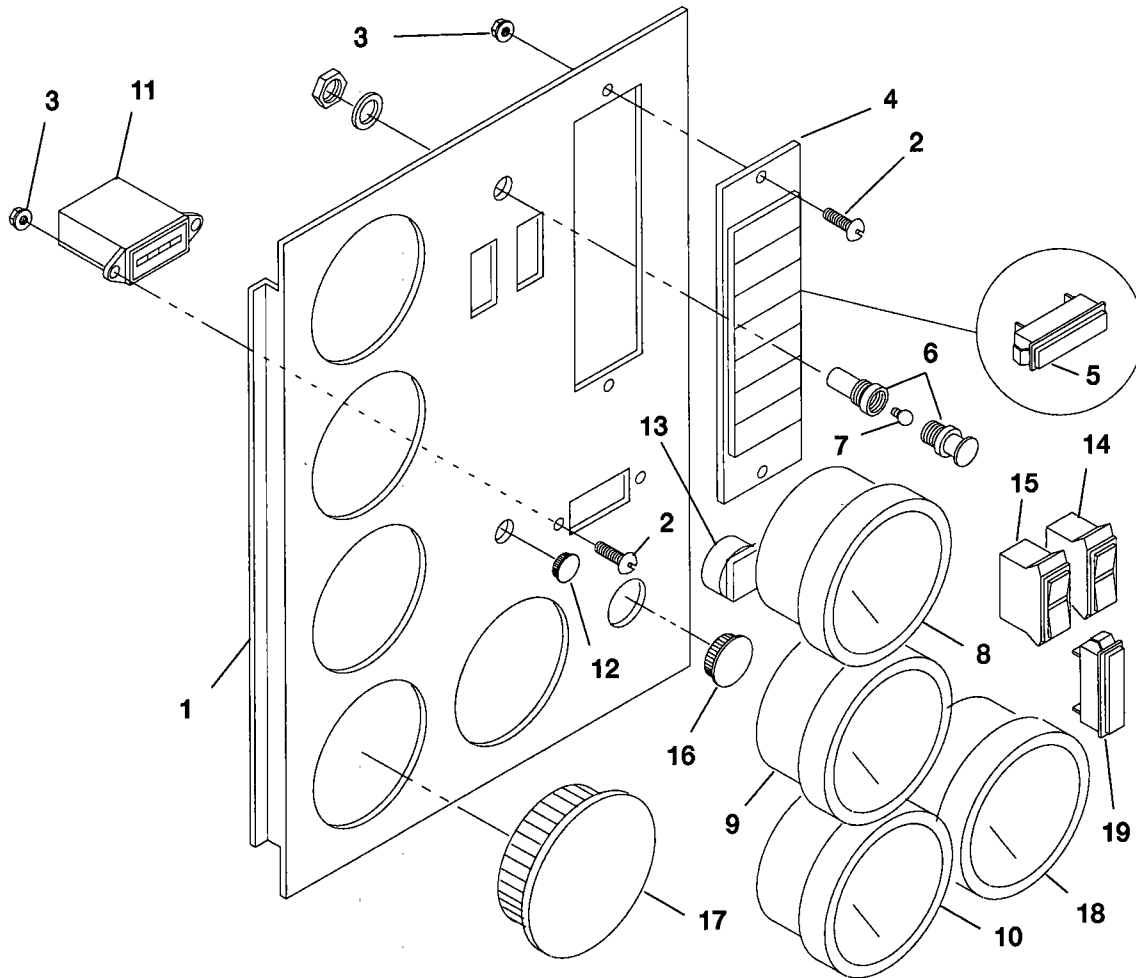
Note: For PowerCommand Control Service Replacement Parts, Order PowerCommand Control For Generator Sets Parts Catalog Number 960-0205.

AC Control Door Assembly Generator Sets With Detector Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9054-03	1	Door, Control - AC Without Meter Holes	6	308-1052	1	Switch, Rotary - Voltmeter/ Ammeter (Includes Knob) (S21)
	301-9054-02	1	With Three Meter Holes	7	355-0189	1	Capacitor - Voltmeter (.1 Mfd., 500 WVDC) (C21)
	301-9054-01	1	With Four Meter Holes	8	517-0302	1	Plug, Hole (Fits 2-1/4" Hole)
	301-9054-04	1	With Six Meter Holes	9	517-0131	1	Plug, Hole (Fits 3/8" Hole) Used Approximately During Spec A And B
2	322-0363	1	Light, Indicator - Upper/ Lower Scale (DS21, DS22)	10	303-0032	1	Knob, Rotary Switch (Earlier Round Style) Used Approximately During Spec A And B
3	302-1148	1	Voltmeter (M21) Scale Reads 0-300/600				
	302-1753	1	Scale Reads 0-750				
	302-1938	1	Scale Reads 0-5200				
4	302-1725	1	Ammeter (M22) Scale Reads 0-375/750				
	302-1726	1	Scale Reads 0-400/800				
	302-1727	1	Scale Reads 0-500/1000				
	302-1728	1	Scale Reads 0-600/1200				
	302-1729	1	Scale Reads 0-750/1500				
	302-1798	1	Scale Reads 0-1000/2000				
	302-1799	1	Scale Reads 0-1500/3000				
5	302-1968	1	Meter, Frequency (M23)				

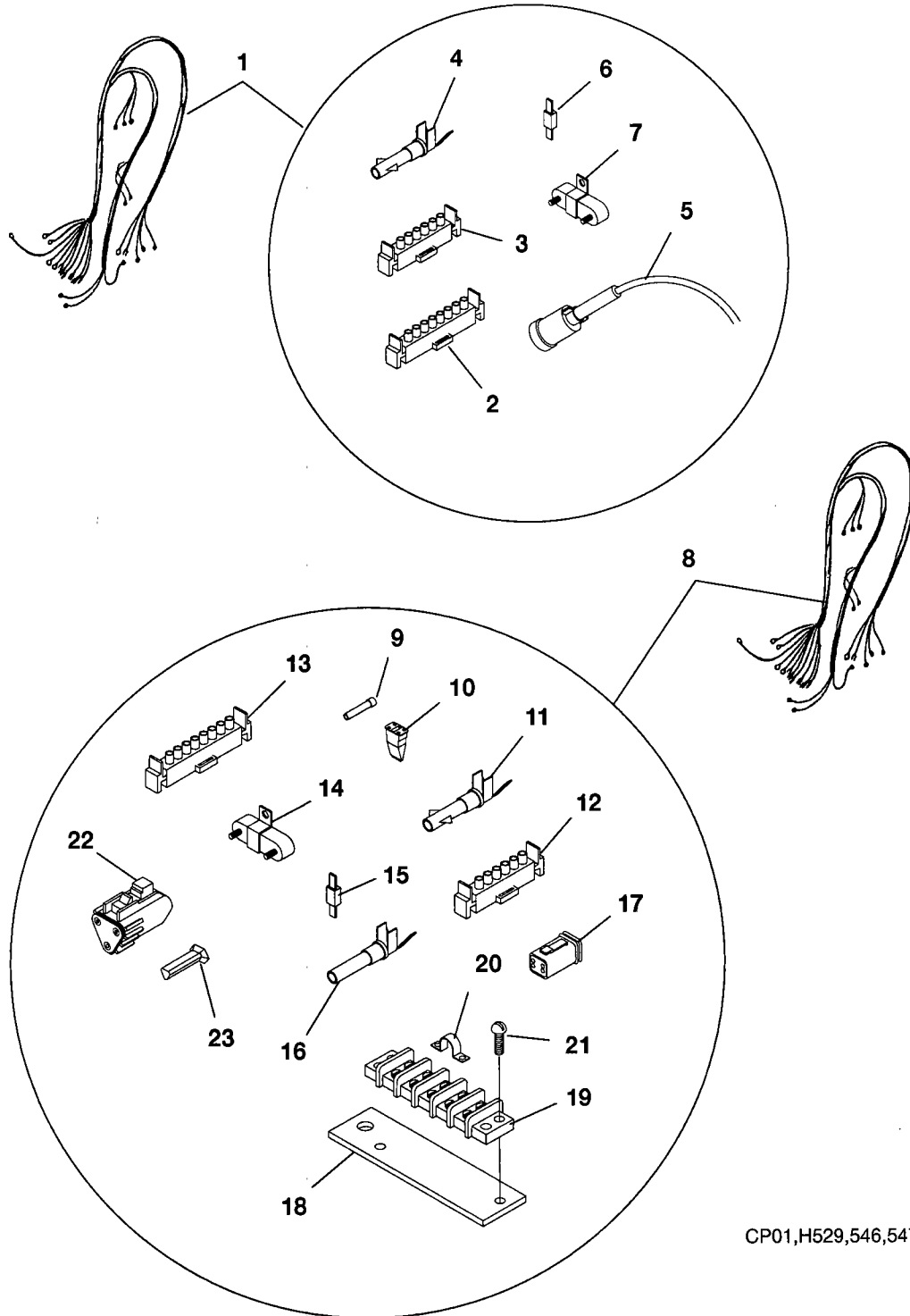
DC Control Door Assembly Generator Sets With Detector Control



DC Control Door Assembly Generator Sets With Detector Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9055-02	1	Door, Control – DC Doors With Three Round Gauge Holes	14			Switch, Rocker – Lamp Test/Reset Panel Lamp – Preheat (S11)
	301-9055-01	1	Doors With Five Round Gauge Holes	308-0892	1		Used Approximately During Spec A And B
2	815-0385	4	Screw, Machine – Round Head (#6-32 x 1/2")	308-1010	1		Used Approximately Begin Spec C
3	870-0183	4	Nut, Hex – W/ET (#6-32)	15			Switch, Rocker – Run/Stop/Remote (S12)
4			Light Assembly, Indicator (Includes Wiring Harness and Connector Housing) (A12)	308-0784	1		Used Approximately During Spec A And B
	322-0359-02	1	7 Light Assembly	308-1011	1		Used Approximately Begin Spec C
	322-0360-02	1	12 Light Assembly				
5	322-0369-02	1	Light, Indicator – Replacement	16	517-0137	1	Plug, Hole (Fits 7/8" Hole)
6	322-0361	1	Light, Panel (DS11)	17	517-0301	2	Plug, Hole (Fits 2" Hole)
7	322-0017	1	Bulb, Panel Light – Replacement	18	302-1723	1	Ammeter – Blank Scale (Used Approximately During Spec A And B) (Quantity Used As Required)
8	193-0466	1	Gauge, Oil Pressure (M11)				
9	193-0351	1	Gauge, Water Temperature (M12)	19	301-6257	1	Switch – Blank (Used Approximately During Spec A And B)
10	302-1642	1	Voltmeter (M13)				
11	302-0885	1	Meter, Time Totalizing (M14)				
12	517-0131	1	Plug, Hole (Fits 3/8" Hole)				
13	193-0250	2	Resistor (Mounted on Oil Pressure and Water Temperature Gauges) (R12, R13) (R11, R12 Designation Used Approximately During Spec A And B)				

Wiring Harness Engine to Control Generator Sets With Detector Control



CP01,H529,546,547

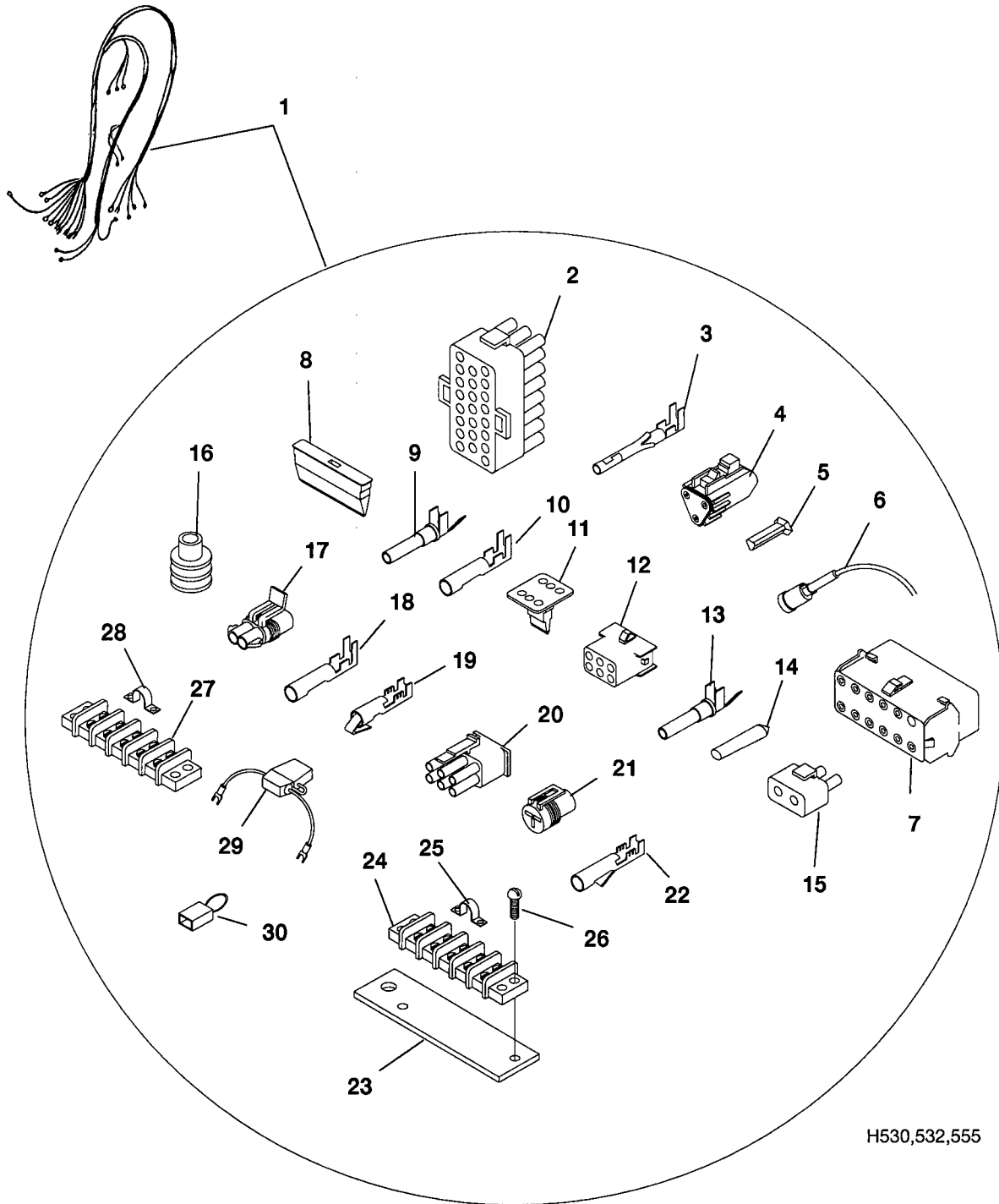
Wiring Harness Engine to Control Generator Sets With Detector Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Engine To Control – Generator Sets With Detector Control (Includes Parts Marked *)	13	323–1306	1	#Housing, Connector (8 Place) (J1)
	338–2726	1	Spec A	14	353–0094–01	1	#Resistor (R1)
	338–2947	1	Spec B Through E	15	357–0030	1	#Rectifier (CR1)
2	323–1306	1	*Housing, Connector (8 Place) (J1)	16	323–1492	6	#Socket, Contact (Used In E1, P3)
3	323–1304	1	*Housing, Connector (6 Place) (J2)	17	323–1546	1	#Plug, Connector (4 Place) (E1)
4	323–1200	11	*Socket, Contact (Used in J1, J2)	18			Bracket, Mounting – Terminal
5	151–0629	1	*Cable, Magnetic Pickup (36") (P1)		319–2006–01	1	# Marked "26" (T26)
6	357–0030	1	*Rectifier (CR1)		319–2006–02	1	# Marked "GND" (GND–ENG)
7	353–0094–01	1	*Resistor (R1)	19	332–0604	2	#Block, Terminal (5 Place)
8	338–3342	1	Harness, Wiring – Engine To Control – Generator Sets With Detector Control – Begin Spec F (Includes Parts Marked #)	20	332–1043	8	#Jumper
9	323–1591	1	#Plug, Seal (Used In E1)	21	815–0538	4	#Screw, Machine – Round Head – W/IT (#8–32 x 1/2")
10	323–1548	1	#Wedge (Used in E1)	22	323–1493	1	#Plug, Connector (3 Place) (P3)
11	323–1200	11	#Socket, Contact (Used In J1, J2)	23	323–1503	1	#Wedge (Used In P3)
12	323–1304	1	#Housing, Connector (6 Place) (J2)				

* – Parts Included In 338–2726 And 338–2947 Wiring Harnesses

– Parts Included In 338–3342 Wiring Harness

**Wiring Harness
Engine to Control
Generator Sets With PowerCommand Control
Begin Spec D**

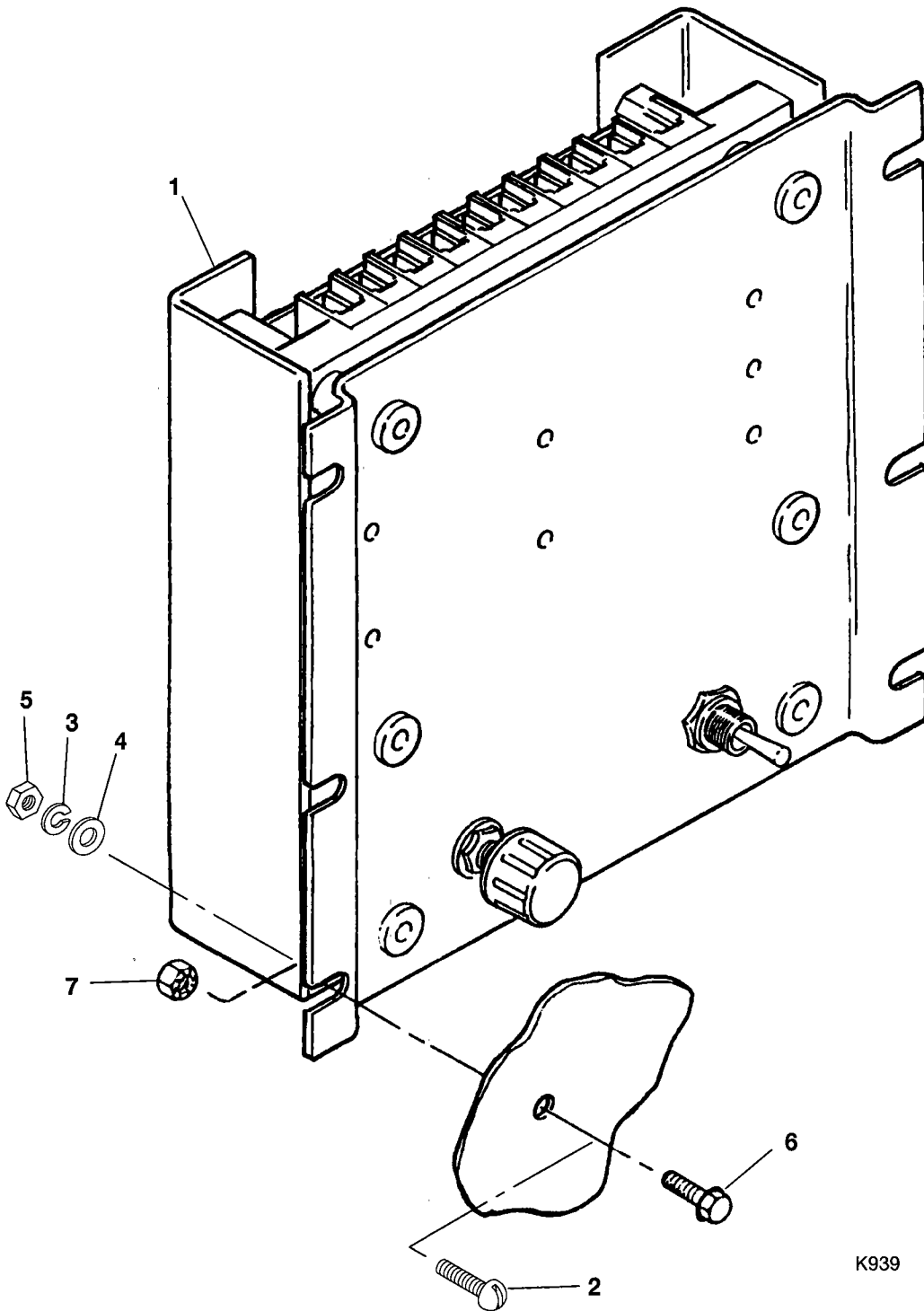


**Wiring Harness
Engine to Control
Generator Sets With PowerCommand Control
Begin Spec D**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Engine To Control – Generator Sets With PowerCommand Control	17	323–1540	2	*#Socket, Connector (2 Place) (E2, E4)
	338–2938	1	Spec D And E (Includes Parts Marked *)	18	323–1444	2	*#Socket, Contact (Used In E6)
	338–3393	1	Begin Spec F (Includes Parts Marked #)	19	332–3096–01	4	*#Socket, Contact (Used In E2, E4)
2			Plug, Connector (23 Place)	20	323–1643–01	1	*#Plug, Connector (6 Place) (P10)
	323–1605–03	1	*# Colored Grey (P5)	21	323–1666	1	*#Socket, Connector (3 Place) (E1)
	323–1605–02	2	*# Colored Natural (P4, P6)	22	323–1667	3	*#Socket, Contact (Used In E1) Bracket, Mounting – Terminal
3	323–1614–01	50	*#Socket, Contact (Used In P4, P5, P6)	23	319–2006–01	1	*# Marked "26" (T26)
4	323–1493	1	#Plug, Connector (3 Place) (P3)		319–2006–02	1	*# Marked "GND" (GND–ENG)
5	323–1503	1	#Wedge (Used In P3)	24	332–0604	2	*#Block, Terminal (5 Place)
6	338–2592–01	1	*#Cable, Magnetic Pickup (84") (Includes Indented Sockets Listed Below) (P1)	25	332–1043	8	*#Jumper
	323–1614–01	3	Socket, Contact	26	815–0538	4	*#Screw, Machine – Round Head – W/IT (#8–32 x 1/2")
7	323–1580	1	*#Housing, Connector (12 Place) (J12)	27	332–0604	1	*#Block, Terminal (5 Place) (TB–BAT)
8	323–1581	1	*#Wedge (Used In J12)	28	332–1043	3	*#Jumper (Used On TB–BAT)
9	323–1491	6	*#Pin, Contact (Used In J12)	29	321–0339	1	*#Holder Assembly, Fuse (Used On TB–BAT) (Includes Indented Parts Listed Below)
10	323–1648	5	*#Socket, Contact (Used In P10)		321–0325	1	Holder, Fuse
11	323–1624	1	*#Wedge (Used In P7)		321–0307–07	1	Fuse – 20 Amp (Colored Yellow)
12	323–1623	1	*#Plug, Connector (6 Place) (P7)	30	338–3285	1	*#Harness Assembly, Jumper (Includes Parts Indented Below) (E6)
13			Socket, Contact		323–1652	1	Socket, Connector (2 Place)
	323–1492	6	* Wiring Harness 338–2938 (Used In P7)		323–1445	2	Seal
	323–1492	9	# Wiring Harness 338–3393 (Used In P3, P7)		323–1718	2	Pin, Contact
14	323–1615	1	*#Plug (Used On P4, P5, P6) (Quantity Used As Required)				
15	323–1637	1	*#Socket, Connector (2 Place) (E6)				
16	323–1445	3	*#Seal (Used On E2, E4, E6)				

* – Parts Included In 338–2938 Wiring Harness
– Parts Included In 338–3393 Wiring Harness

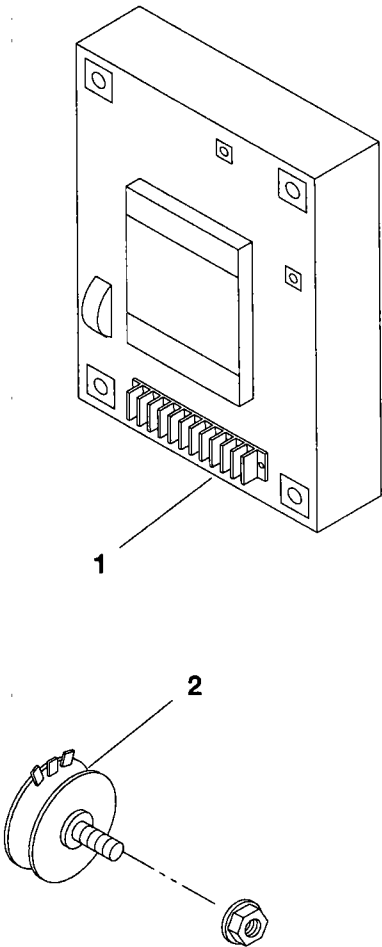
Manual Voltage Regulator



K939

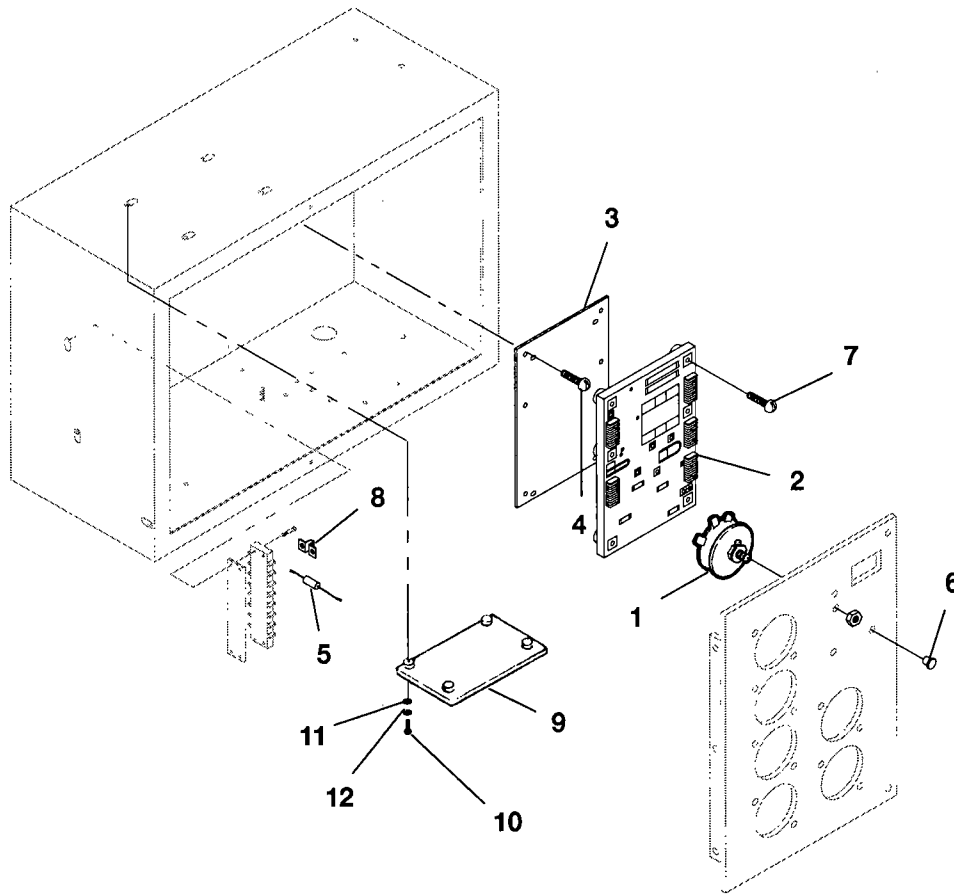
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305-0817	1	Regulator, Voltage – Manual	5	871-0010	4	Nut, Hex (#10-32) Spec A,B
2	813-0100	4	Screw, Machine – Round Head (#10-32 x 1/2") Spec A,B	6	821-0005	4	Screw, Self-Locking – Hex Washer Head (#10-32 x 1/2") Begin Spec C
3	850-0030	4	Washer, Lock – Spring (#10) Spec A,B	7	870-0131	4	Nut, Hex – W/ET (#10-32) Begin Spec C
4	526-0008	4	Washer, Flat (#10) Spec A,B				

**Remote Mounted Voltage Regulator
Spec A and B**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305-0823	1	Regulator, Voltage (VR21)	2	303-0285	1	Potentiometer (R21)

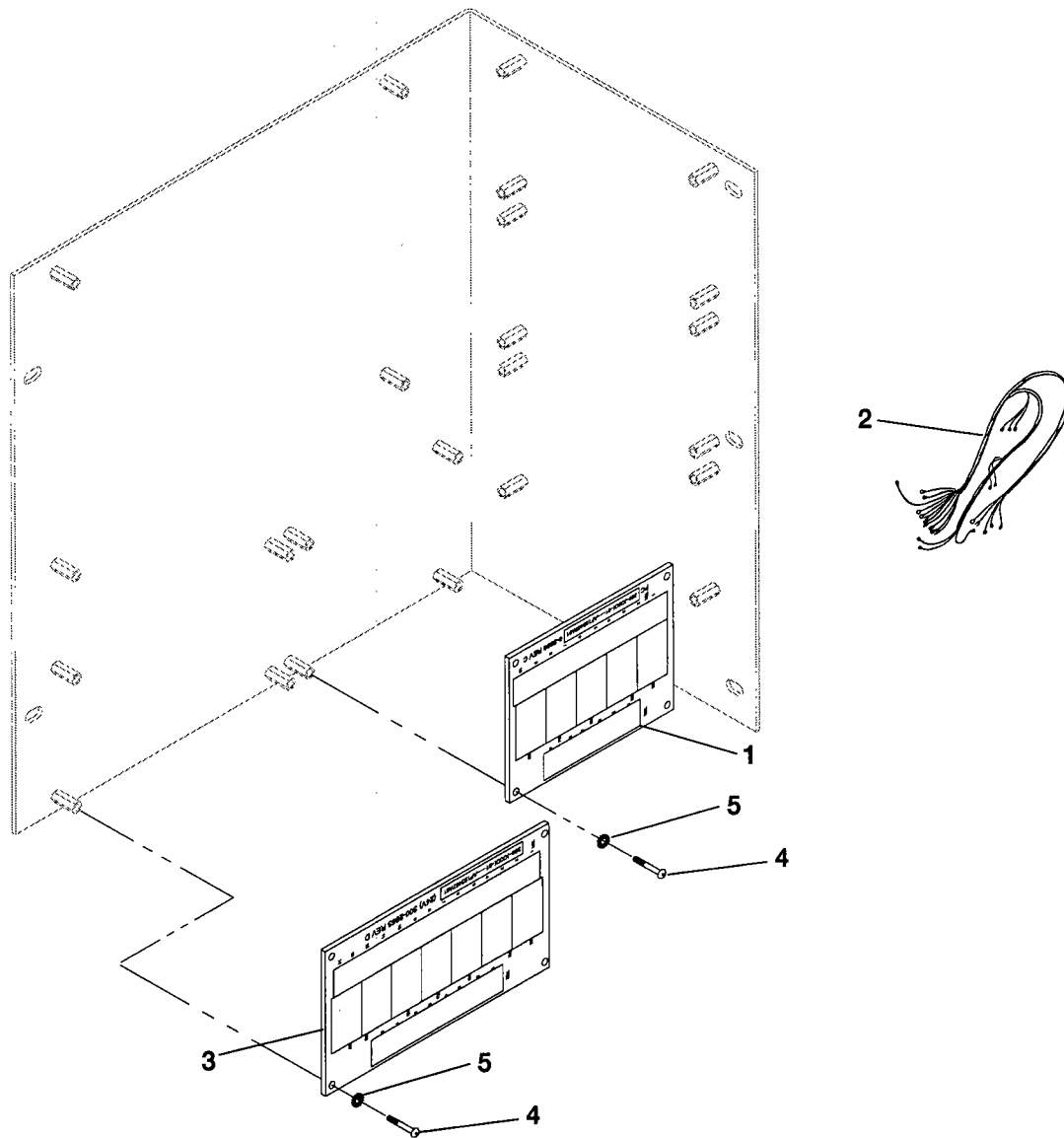
Voltage Regulator Generator Sets With Detector Control



H529,546,547,K001

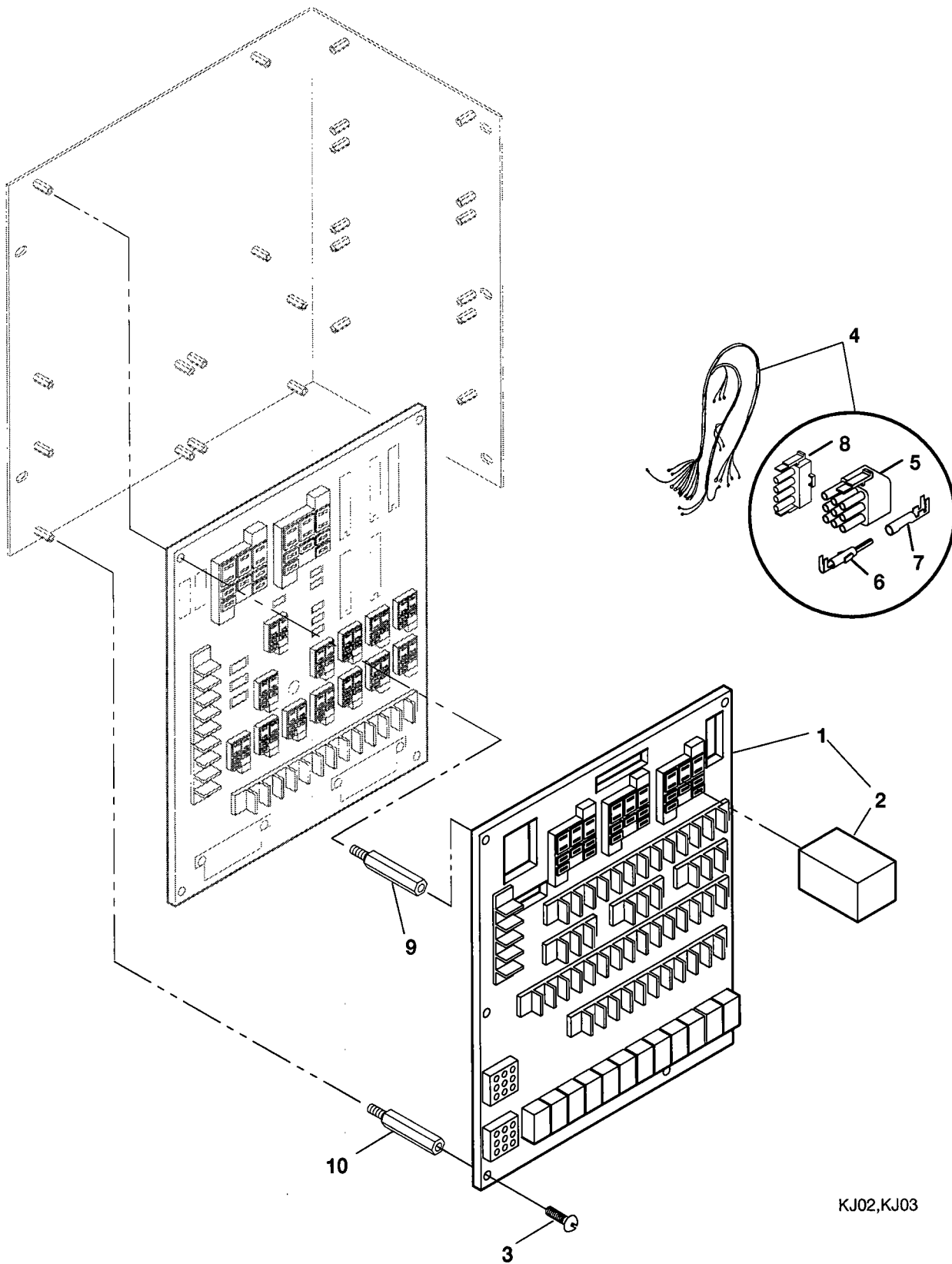
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			*Potentiometer – Voltage Adjust (R21)	6	517-0131	1	Plug, Hole (Fits 3/8" Hole)
	303-0261	1	1.5K Ohms (Used With Model SX440 Voltage Regulator)	7	812-0084	4	Screw, Machine – Round Head (#8-32 x 1")
	303-0285	1	5K Ohms (Used With Model MX321 Voltage Regulator)	8	332-1043	1	Jumper (Used On TB21)
2	305-0823	1	Board, Printed Circuit – Voltage Regulator (MX321) (VR21)	9	305-0868	1	*Board, Printed Circuit – Isolation Transformer (T30)
3	319-0652	1	Plate, Mounting	10	813-0108	4	*Screw, Machine – Round Head (#10-32 x 1-1/2")
4	815-0544	6	Screw, Machine – Round Head – Cross Recessed W/IT (#6-32 x 1/2")	11	526-0008	4	*Washer, Flat (#10)
5	350-1222	1	Resistor (1.5K Ohms) (Used On TB21)	12	850-0030	4	*Washer, Lock – Spring (#10)
				* – Not Used On All Models			

Alarm Relay Board Spec A



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-2856	1	Board, Printed Circuit – Alarm Relay – 12 Light Control (A14)	4			Screw, Machine – Round Head (#6-32 x 1/2")
2	338-1835	1	Harness, Wiring A13 to A11TB1 and TB2 (8 Wire)	812-0063	4		Used With A13 Printed Circuit Board
	338-1836	1	A14 to A11TB2 (5 Wire)	812-0063	8		Used With A13 and A14 Printed Circuit Board
3	300-2863	1	Board, Printed Circuit – Alarm Relay – 7 and 12 Light Control (A13)	5	853-0003	8	Washer, Lock – W/ET (#6)

Alarm Relay Board Begin Spec B



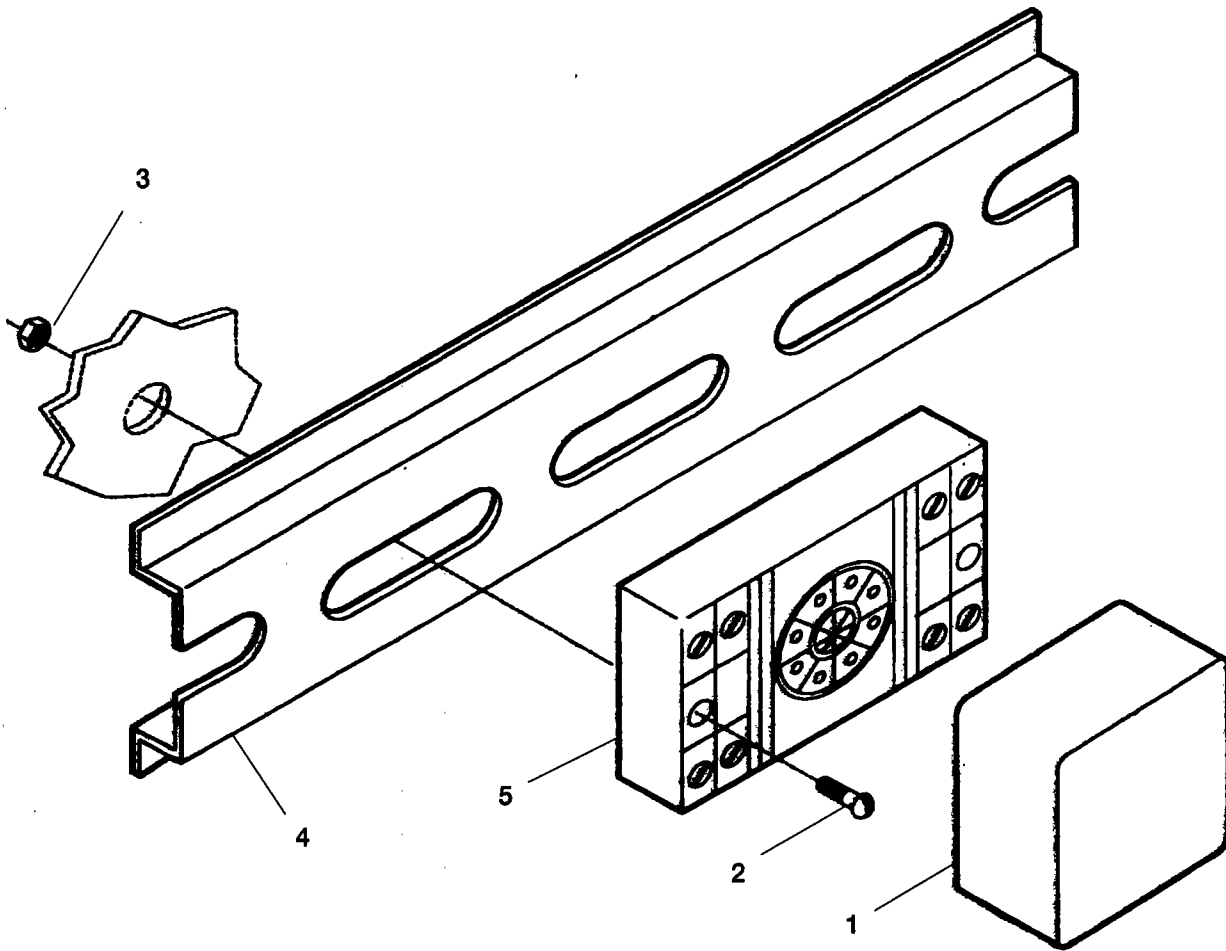
KJ02,KJ03

Alarm Relay Board Begin Spec B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Printed Circuit – Alarm Relay (Includes Relay)	5	323-1291	2	* Plug – 9 Place (P1,P2)
	300-4111-02	1	Without Form C Relays	6	323-1199	9	* Pin, Contact
	300-4111-04	1	With Form C Relays	7	323-1200	12	* Socket, Contact
2	307-1056	1	Relay (Quantity Used As Required (K1,K2,K3)	8	323-1292	1	* Plug – 4 Place (P3)
3	815-0544	6	Screw, Machine – Round Head – Cross Recessed W/IT (#6-32 x 1/2")	9	870-0517-01	4	Standoff (Clear) (1-15/16")
4	338-2875	1	Harness, Wiring (Includes Parts Marked *) (A11TB1, TB2 To Alarm Relay Board)	10	870-0517-02	2	Standoff (Yellow) (2")

* – Parts Included in 338-2875 Wiring Harness

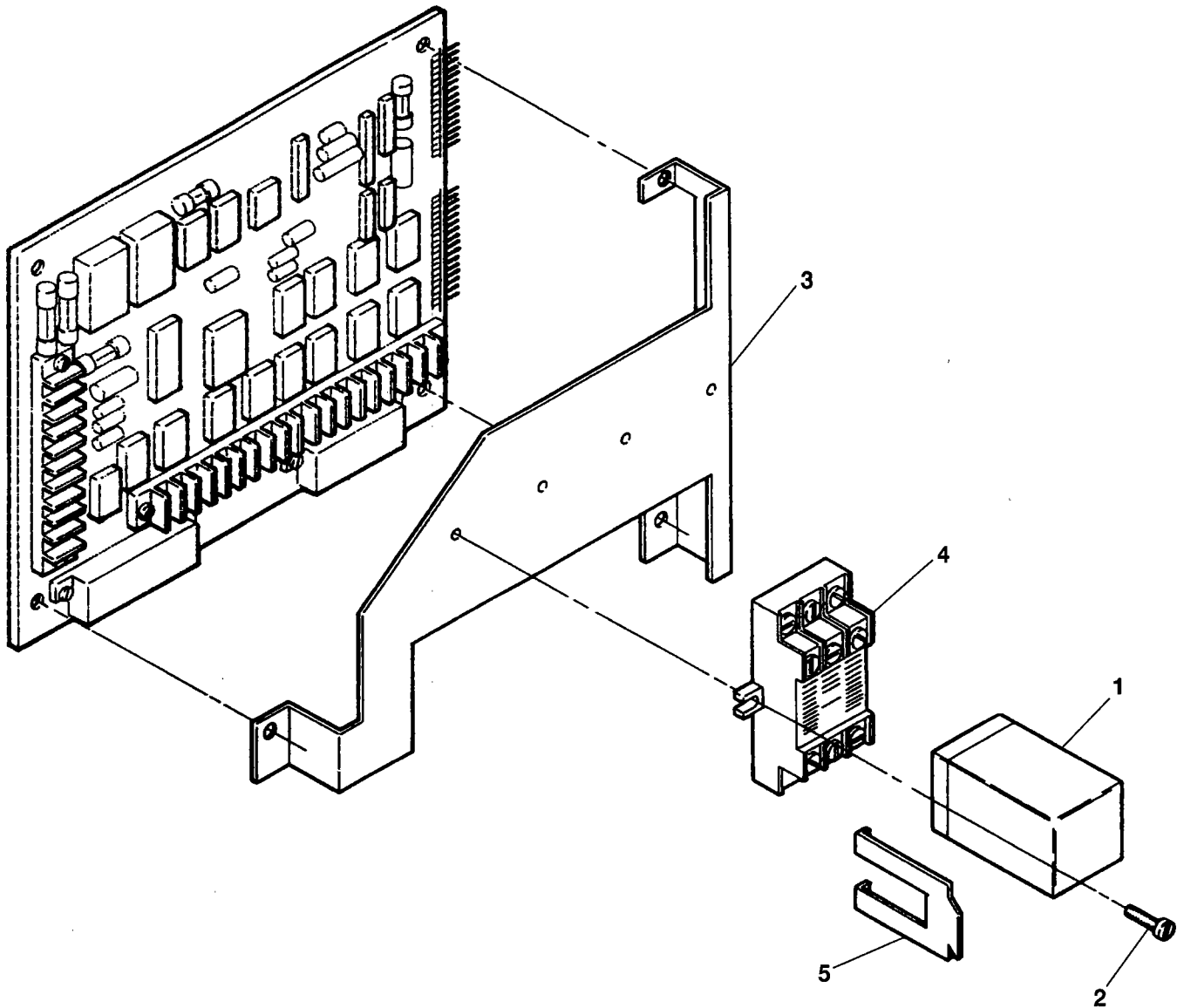
Thermistor Relay Spec A and B



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2737-01	1	Relay
2	813-0103	2	Screw, Machine - Round Head (#10-32 x 3/4")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	870-0131	2	Nut, Hex (#10-32)
4	332-2879-02	1	Rail
5	307-2737-02	1	Base, Relay

Run Relay Spec A

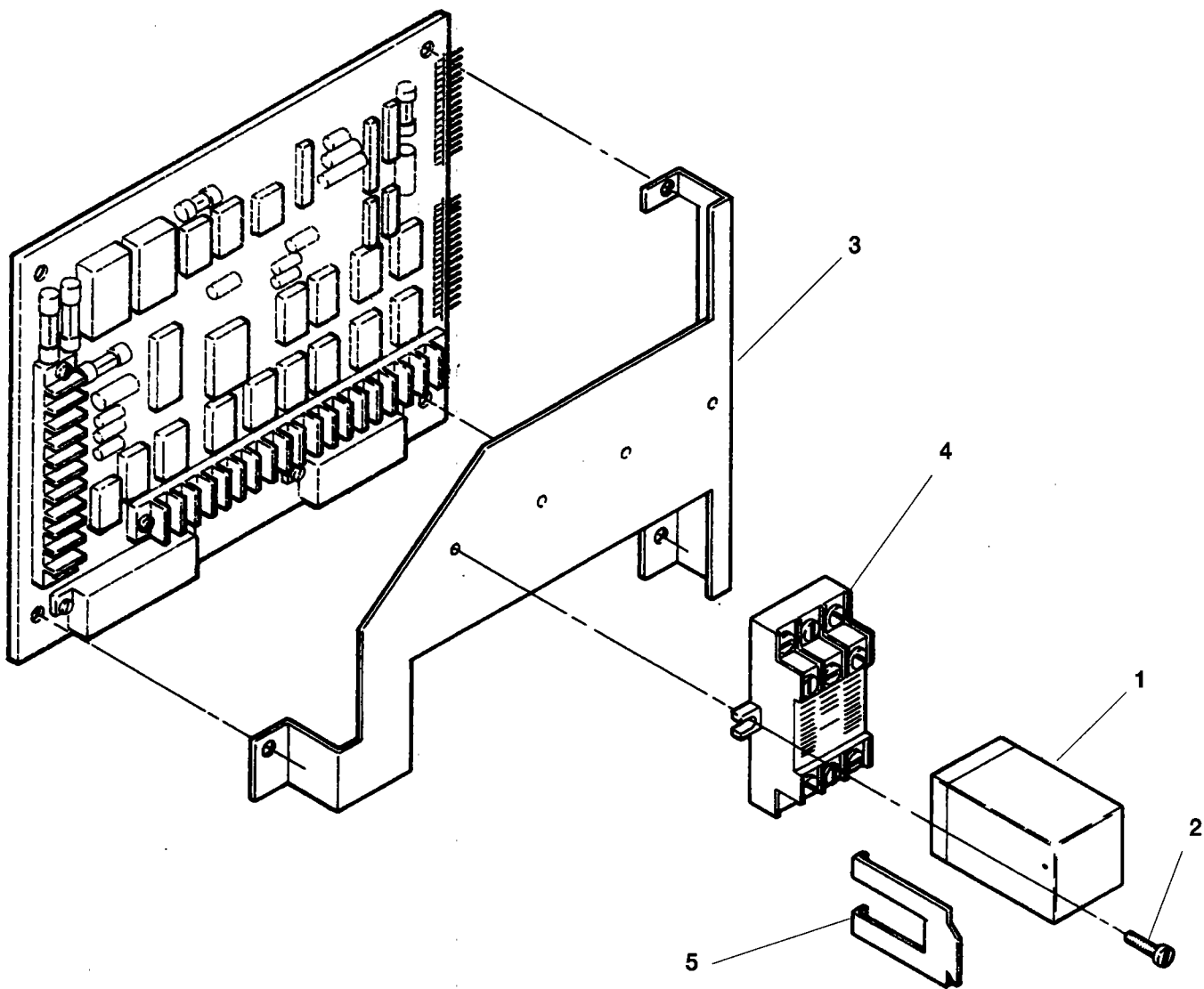


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-1056	1	*Relay, Run (K11)
2	815-0388	2	*Screw, Pan Head - Cross Recessed (#6-32 x 1/2")
3	319-0447	1	Bracket, Mounting
4	323-0804	1	*Socket, Relay

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	307-1987	2	*Hold-Down, Relay

* - Quantities listed are for one mounted relay

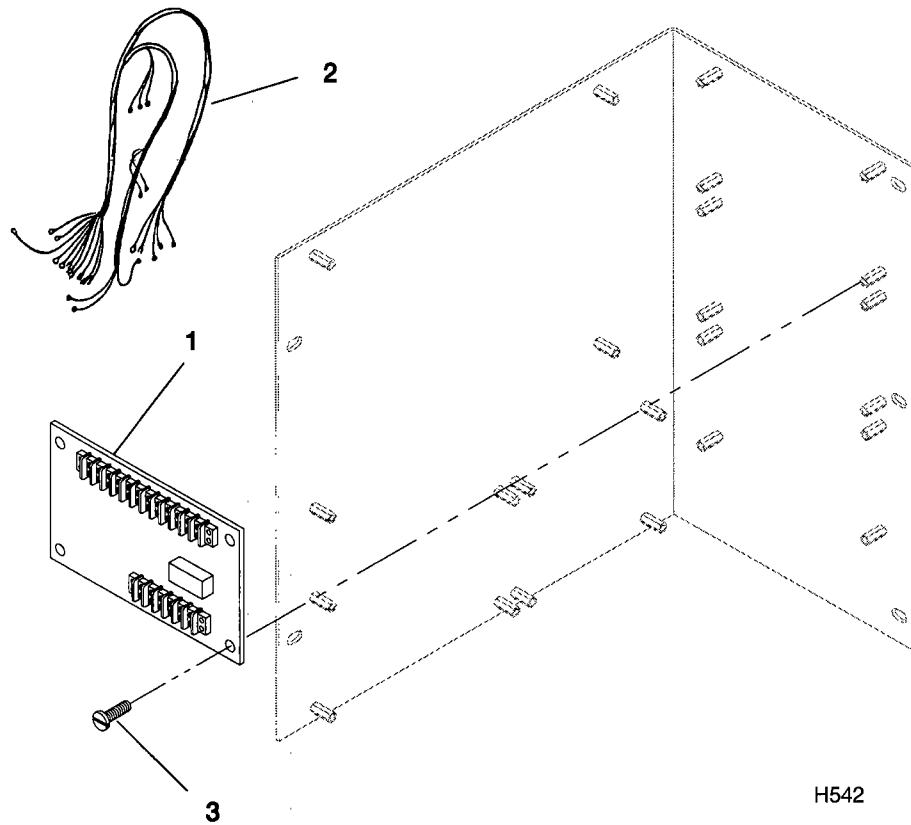
**Common Alarm Relay
Generator Sets With Detector Control
Spec A and B**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-1056	1	Relay, Run (K11)
2	815-0388	2	Screw, Pan Head - Cross Recessed (#6-32 x 1/2")

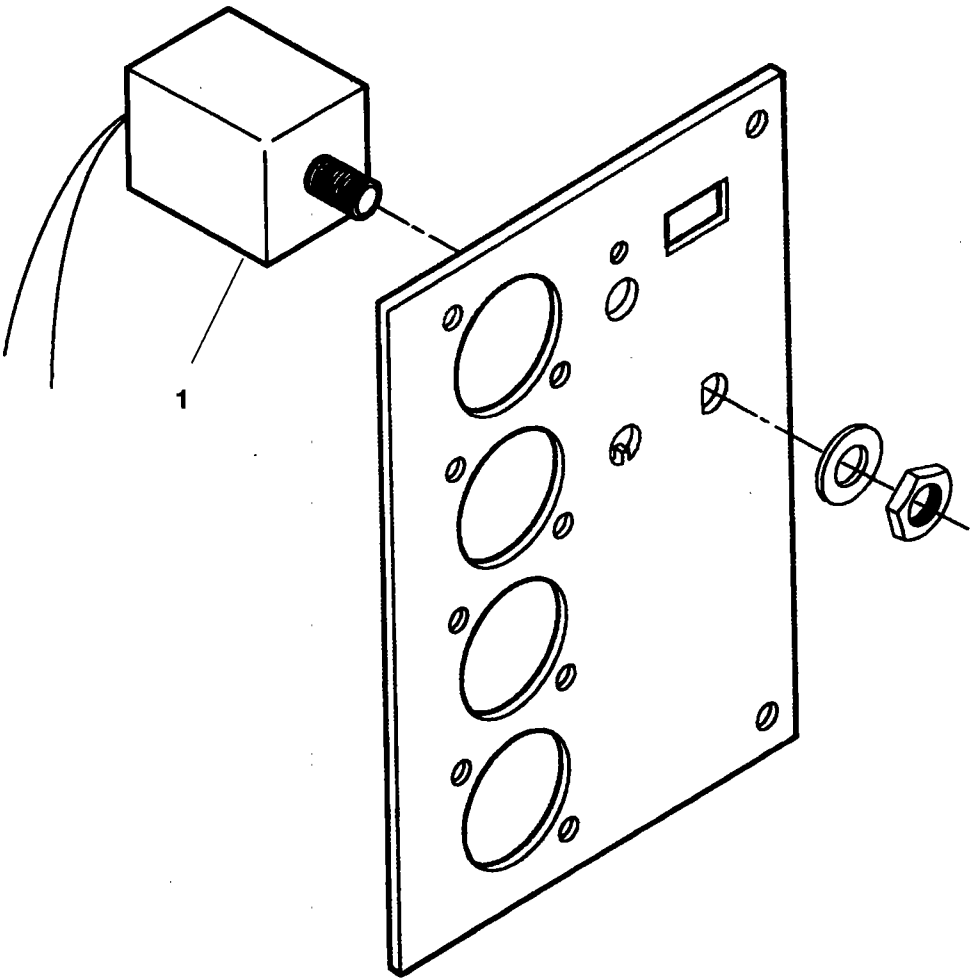
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	319-0447	1	Bracket, Mounting - Relay
4	323-0804	1	Socket, Relay
5	307-1987	2	Hold-Down, Relay

**Common Alarm Board
Generator Sets With Detector Control
Begin Spec C**



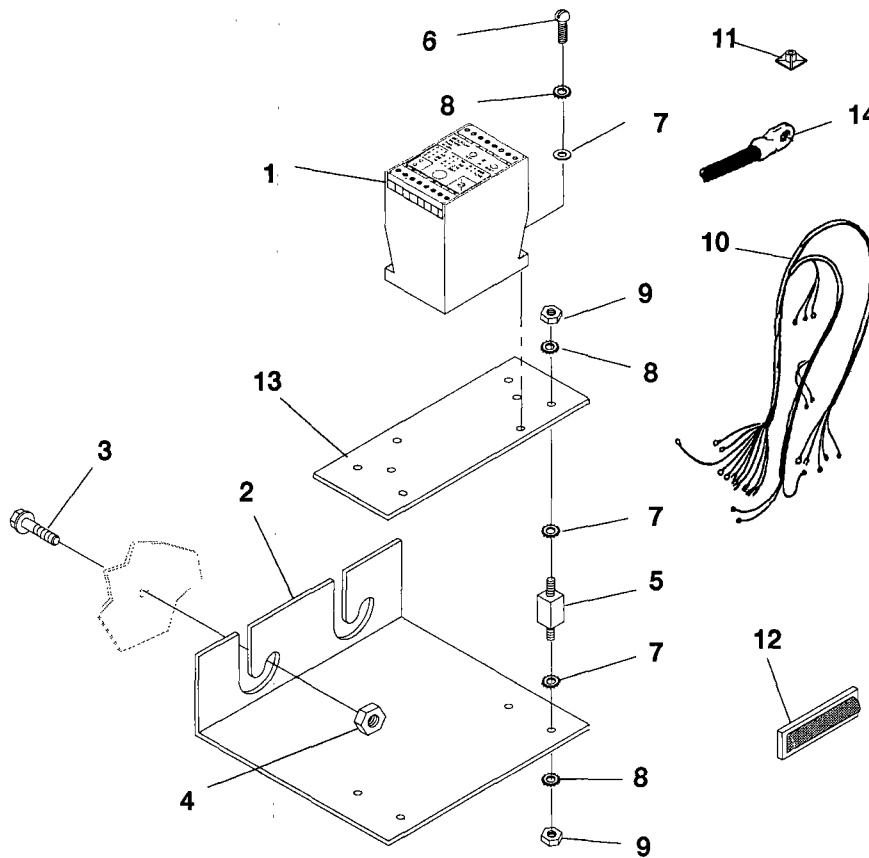
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-4218-02	1	Board, Printed Circuit – Common Alarm (A27)	3	812-0063	4	Screw, Machine – Round Head (#6-32 x 1/2")
2	338-3033	1	Harness, Wiring (12 Wire) (A27 to A11)				

Trip Relay Spec A and B



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Relay, Trip
	307-2706	1	Without Auxiliary Contact
	307-2705	1	With Auxiliary Contact

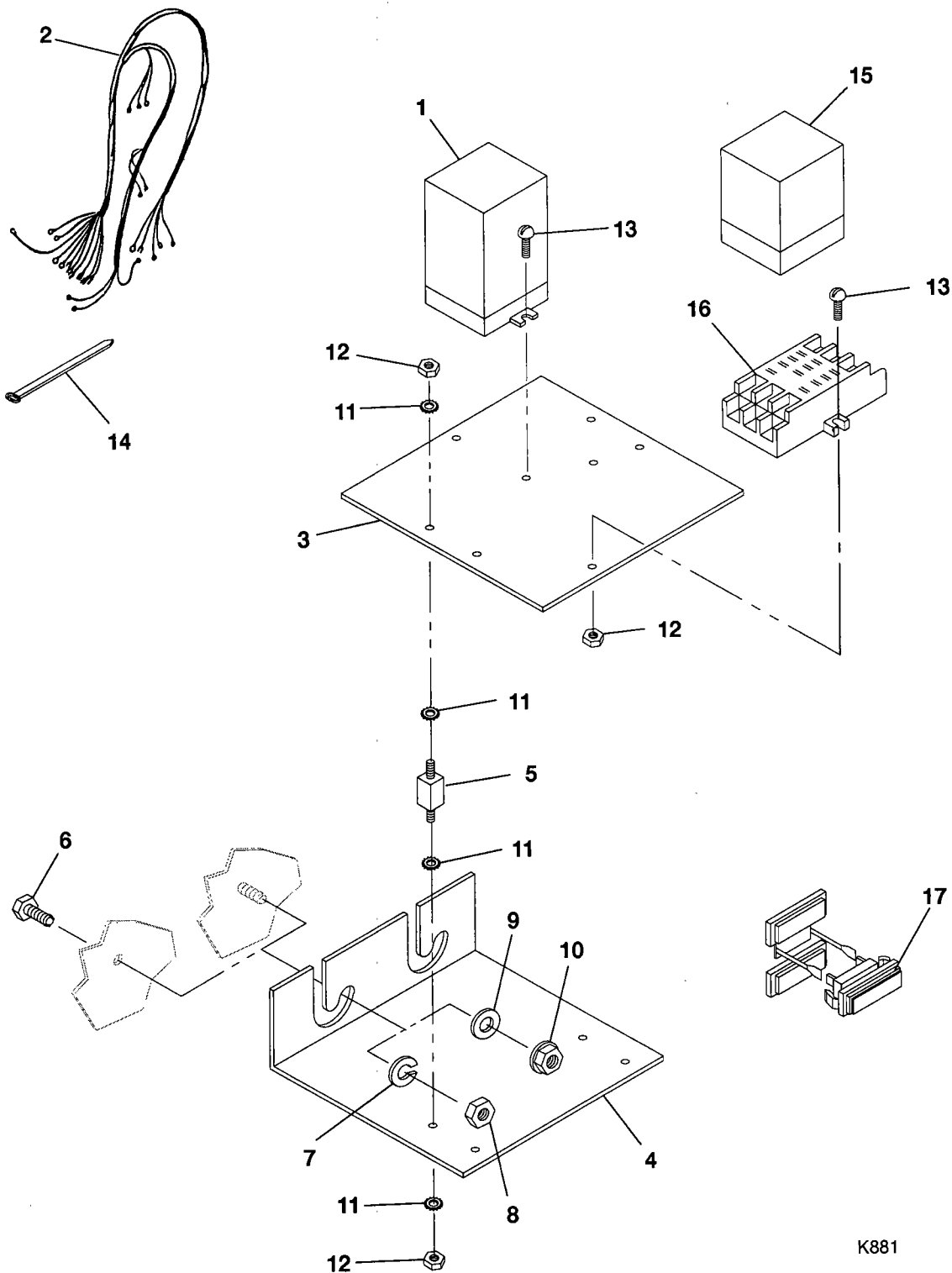
Ground Fault Relay Begin Spec E



H550

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2843	1	Relay (GFA)	11	332-2420	2	Mount, Cable Tie
2	301-6987	1	Bracket, Mounting	12	322-0431-09	1	Lens, Indicator Light (Amber Color, Marked "GROUND FAULT")
3	821-0017	2	Screw, Self-Locking - Hex Washer Head (5/16-18 x 1/2")	13	319-0030	1	Plate, Mounting
4	870-0257	2	Nut, Hex - Self-Locking (5/16-18)	14	226-4406-06	2	Cable, Generator (Generator Neutral to Generator Grounding Bolt) (24")
5	402-0354	4	Mount, Shock				
6	812-0081	2	Screw, Machine - Round Head (#8-32 x 5/8")				
7	526-0003	10	Washer, Flat (#8)				
8	856-0002	10	Washer, Lock - EIT (#8)				
9	860-0008	8	Nut, Hex (#8-32)				
10			Harness, Wiring				
	338-3234	1	Generator Sets With Detector Control (GFA to A11, GND, NEUTRAL and CONT GRD) (5 Wire, 78")				
	338-3232	1	Generator Sets With PowerCommand Control (GFA to TB1, GEN NEUTRAL and GND) (5 Wire, 100")				

Over/Under Voltage Relay Spec A Through D

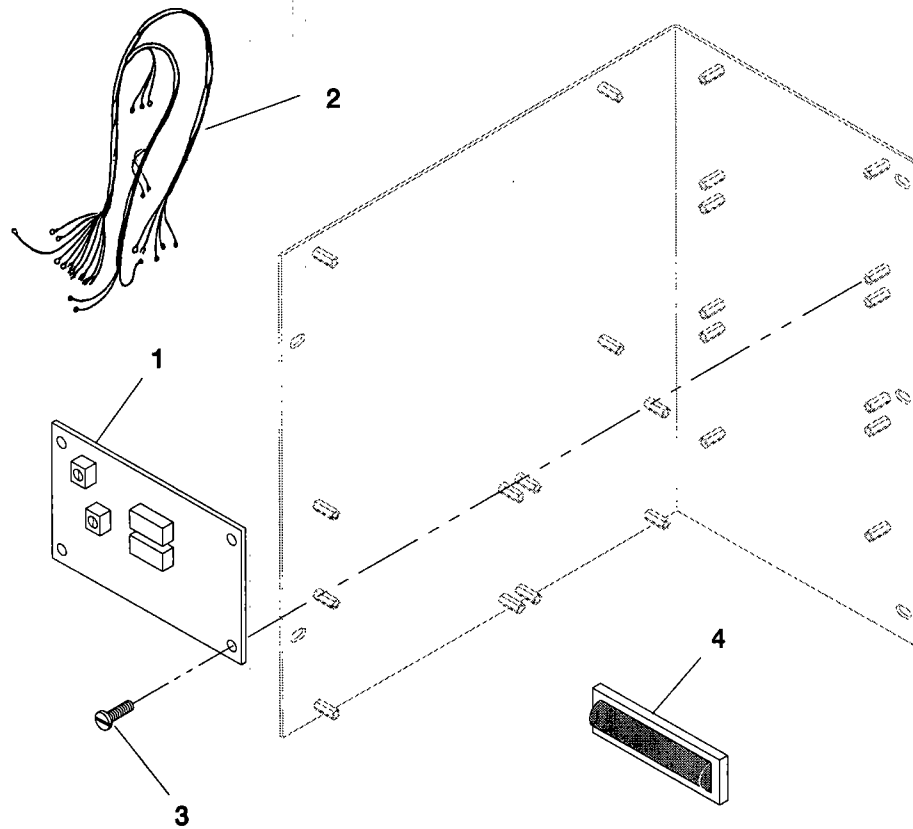


K881

Over/Under Voltage Relay Spec A Through D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Relay, Voltage – Over/Under (A17)	8	862-0014	2	Nut, Hex (5/16-18) Spec A,B
	307-2552	1	120 Volt, Single Phase Sets	9	526-0115	2	Washer, Flat (5/16") Spec C,D
	307-2657	1	380 Volt, Three Phase Sets – Spec A,B	10	870-0048	2	Nut, Hex – Self-Locking (5/16-18) Spec C,D
2			Harness, Wiring – Over/Under Voltage	11	856-0002	18	Washer, Lock – W/EIT (#8)
	338-2123	1	120 Volt, Single Phase Sets	12	860-0008	12	Nut, Hex (#8-32)
	338-2346	1	380 Volt, Three Phase Sets – Spec A,B	13	812-0082	4	Screw, Machine – Round Head (#8-32 x 3/4")
3	301-9933	1	Plate, Mounting	14	332-0942	1	Tie, Cable (Quantity Used As Required)
4	301-6987	1	Bracket, Mounting	15	307-1911	1	Relay, Time Delay (24 VDC) (K17)
5	402-0354	4	Mount, Shock	16	323-0804	1	Socket, Relay
6	821-0017	2	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2") Spec A,B	17	322-0384-09	1	Light, Indicator – Marked "O/U VOLT" (Not Used On All Models)
7	850-0045	2	Washer, Lock – Spring (5/16") Spec A,B				

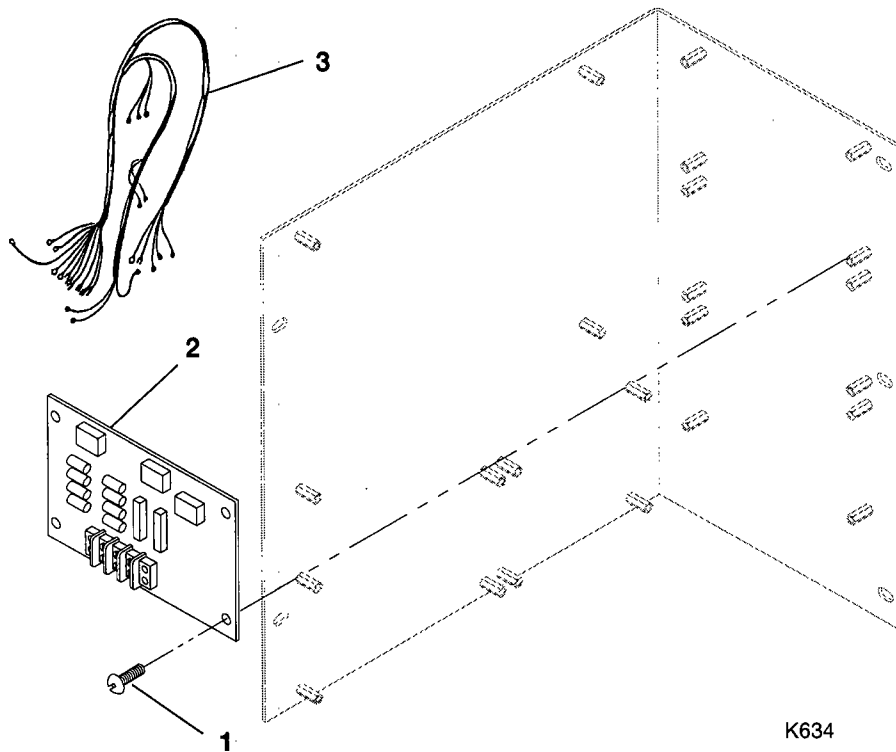
Over/Under Voltage Relay Begin Spec E



K881

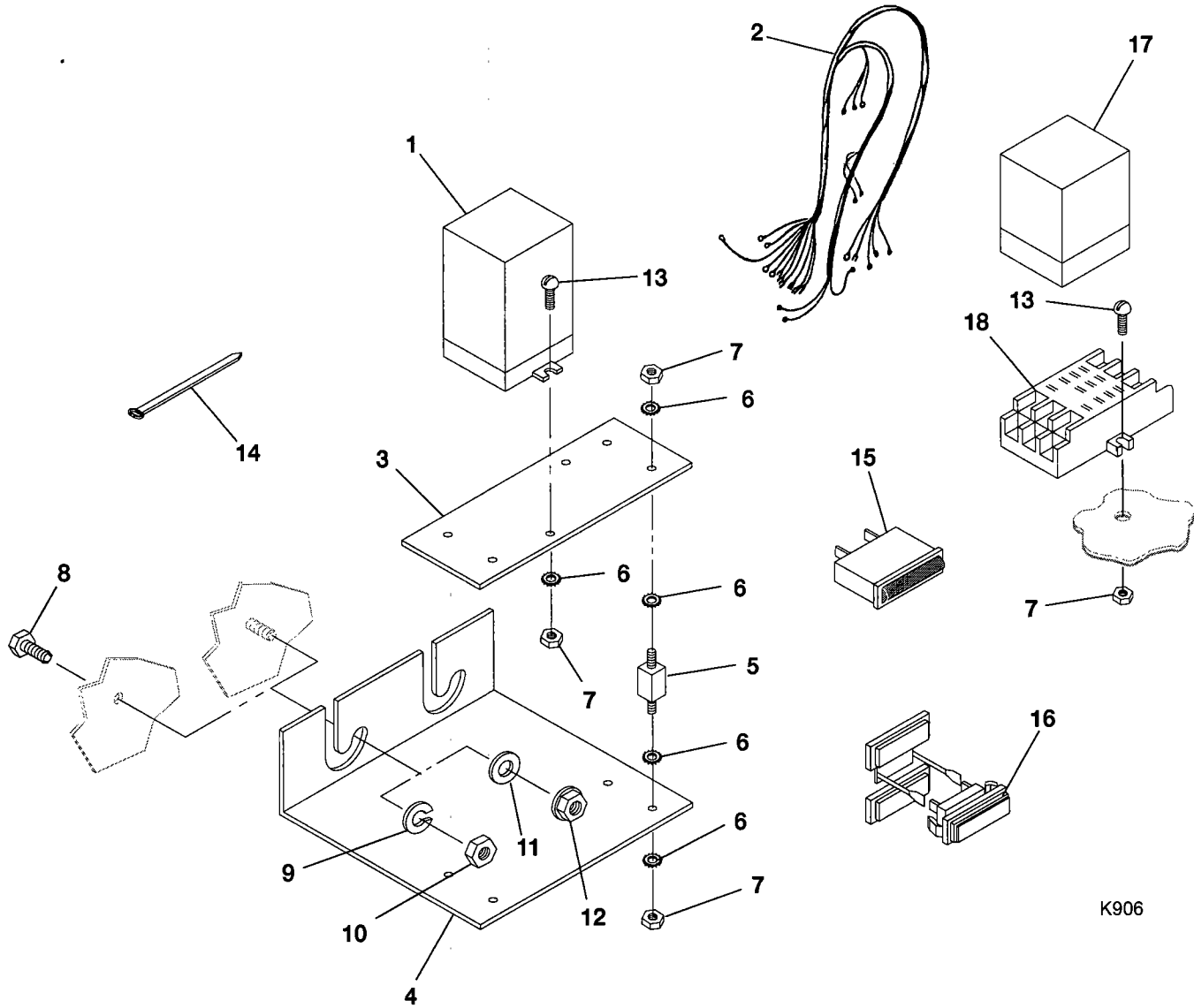
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2868	1	Board, Printed Circuit – Over/Under Voltage Relay (A17)	3	815-0388	4	Screw, Pan Head – Cross Recessed (#6-32 x 1/2")
2	338-3366	1	Harness, Wiring (6 Wire) (30")	4	322-0431-03	1	Lens, Indicator Light (Marked "O/U VOLT")

Time Delay Start/Stop



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0544	4	Screw, Machine – Round Head – Cross Recessed W/IT (#6-32 x 1/2")	3	338-1904	1	Harness, Wiring (5 Wire) (21-1/2")
2	300-2899	1	Board, Printed Circuit – Time Delay (A15)				

Over/Under Frequency Relay

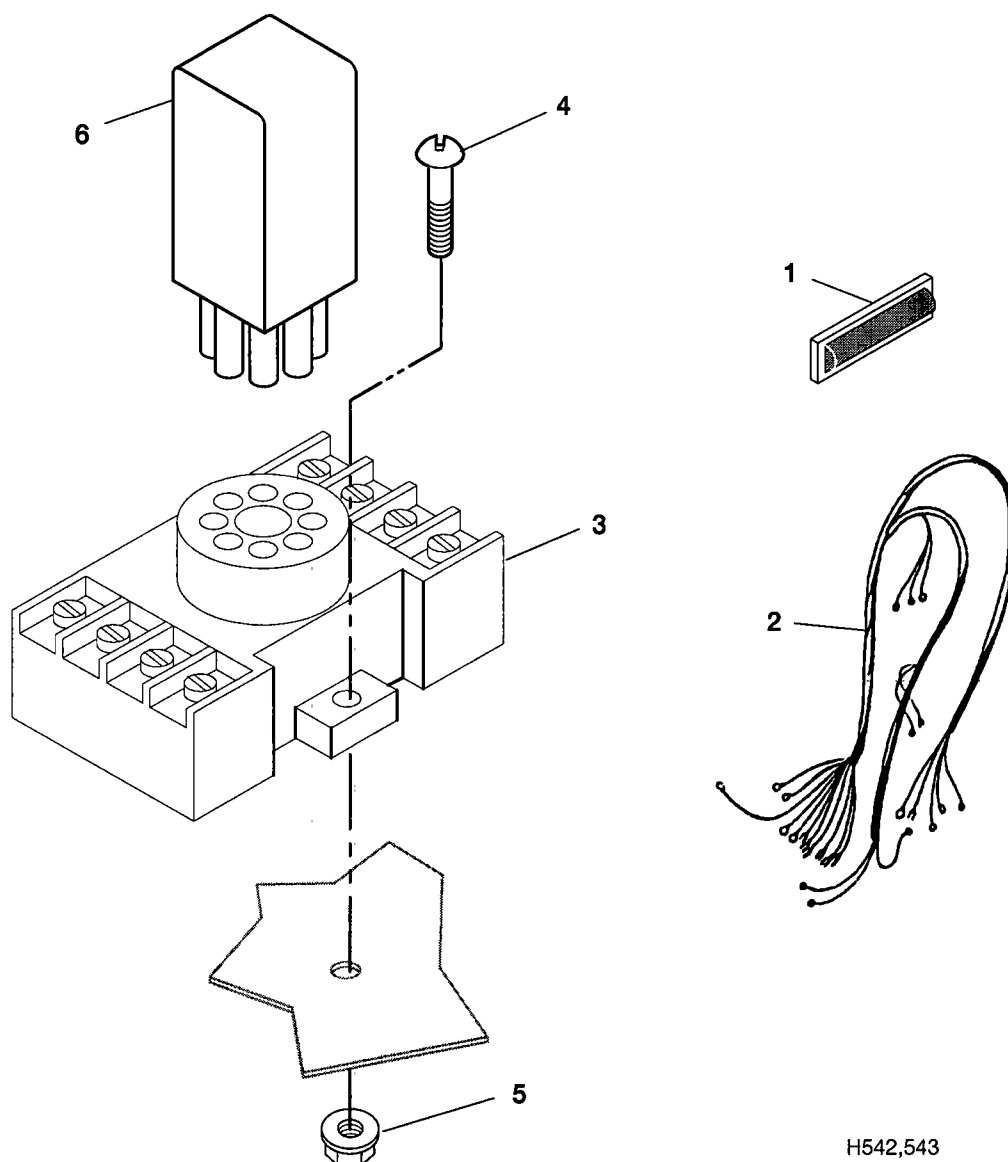


K906

Over/Under Frequency Relay

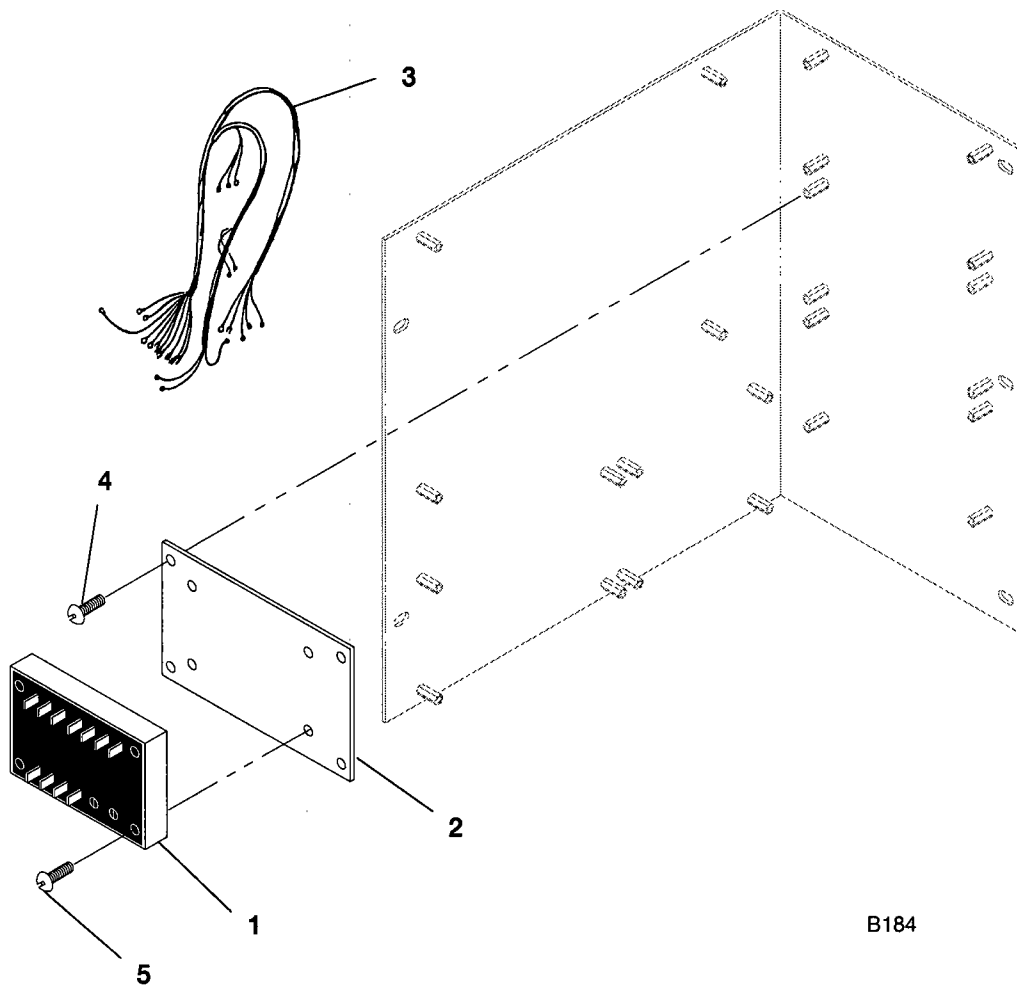
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Relay, Frequency – Over/Under (A18)	9	850-0045	2	Washer, Lock – Spring (5/16") Spec A,B
	307-2553	1	50 Hertz Sets	10	862-0014	2	Nut, Hex (5/16-18) Spec A,B
	307-2709	1	60 Hertz Sets	11	526-0115	2	Washer, Flat (5/16") Begin Spec C
2			Harness, Wiring – Over/Under Frequency	12	870-0048	2	Nut, Hex – Self-Locking (5/16-18) Begin Spec C
			Spec A and B	13			Screw, Machine – Round Head (#8-32 x 3/4")
	338-2124	1	Without K17 Time Delay Relay		812-0082	2	Without K17 Time Delay Relay
	338-2409	1	With K17 Time Delay Relay				Relay
	338-2347	1	Begin Spec C		812-0082	4	With K17 Time Delay Relay
3			Plate, Relay Mounting	14	332-0942	1	Tie, Cable (Quantity Used As Required)
	301-9941	1	Without K17 Time Delay Relay	15	322-0463-04	1	Lens, Replacement – Marked "O/U HZ" (DS20) Begin Spec C
			Relay				
	301-9933	1	With K17 Time Delay Relay				
4	301-6987	1	Bracket, Mounting				
5	402-0354	4	Mount, Shock				
6	856-0002	18	Washer, Lock – W/EIT (#8)	16	322-0384-10	1	Light, Indicator – Marked "O/U FREQ" – Spec A,B
7			Nut, Hex (#8-32)	17	307-1911	1	Relay, Time Delay (.1 to 10 Seconds) (K17) (Not Used On All Models)
	860-0008	10	Without K17 Time Delay Relay				
			Relay				
	860-0008	12	With K17 Time Delay Relay				
8	821-0017	2	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2") Spec A,B	18	323-0804	1	Socket, Relay (Not Used On All Models)

Low Battery Voltage Begin Spec C



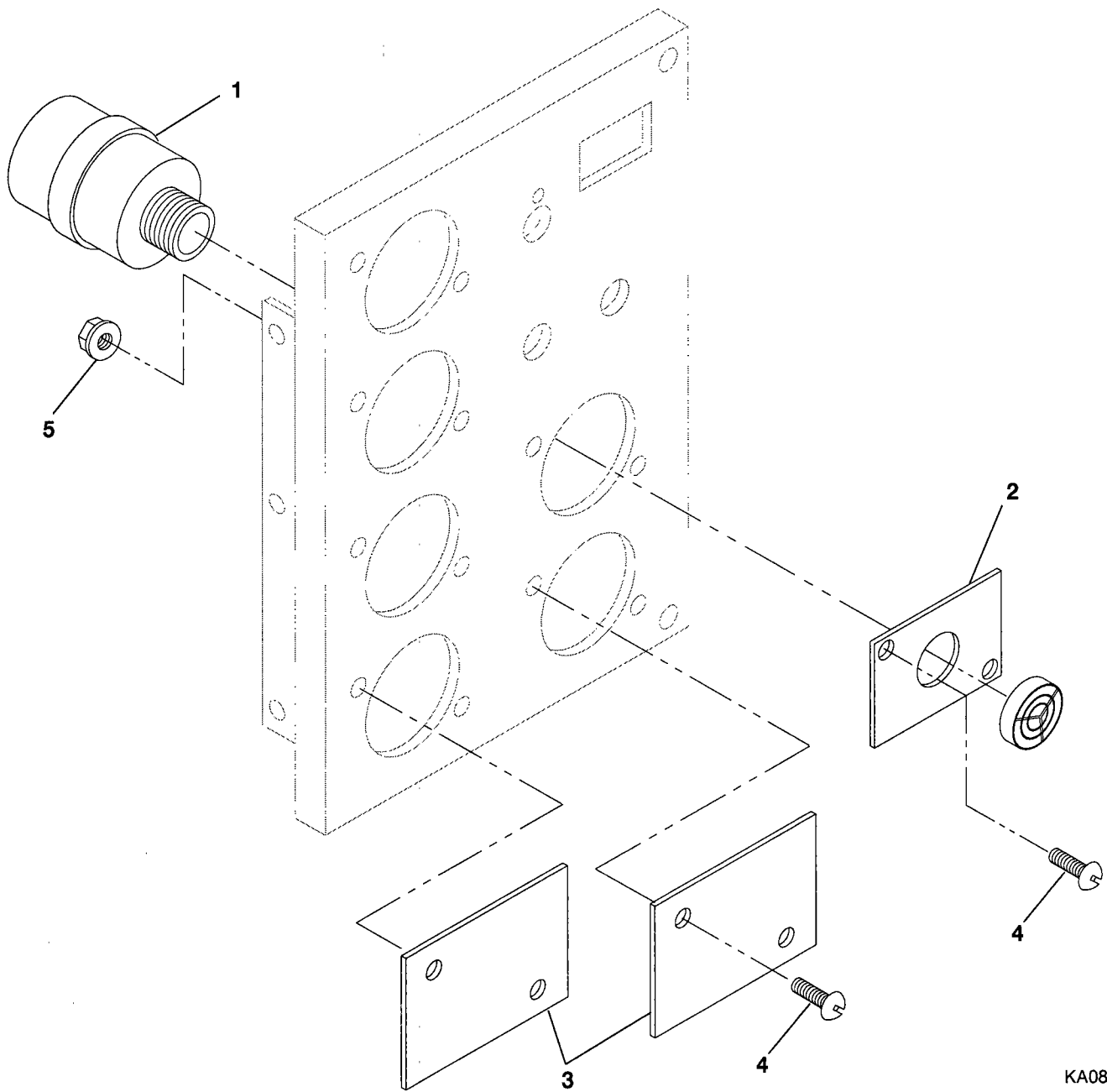
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	322-0431-08	1	Lens, Indicator Light (Marked "Lo Battery")	5	870-1221	2	*Nut, Hex – W/ET (#8-32)
2	338-3034	1	*Harness, Wiring (4 Wire) (36") (K15 to A11)	6	305-0901	1	*Sensor – Low Battery Voltage (K15)
3	323-1410-03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

Electronic Overspeed



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Printed Circuit – Electronic Overspeed (A16)	5			Screw, Machine – Round Head
	305-0818-02	1	Spec A,B		812-0084	4	#8-32 x 1" – Spec A,B
	305-0902-02	1	Begin Spec C		812-0082	4	#8-32 x 3/4" – Begin Spec C
2	319-0754	1	Plate, Mounting				
3	338-2447	1	Harness, Wiring (A16 to A11, AUX) (5 Wire) (66-1/2")				
4			Screw (#6-32 x 1/2")				
	815-0544	4	Machine – Round Head – Cross Recessed W/IT – Spec A,B				
	815-0388	4	Pan Head – Cross Recessed – Thread Forming – Begin Spec C				

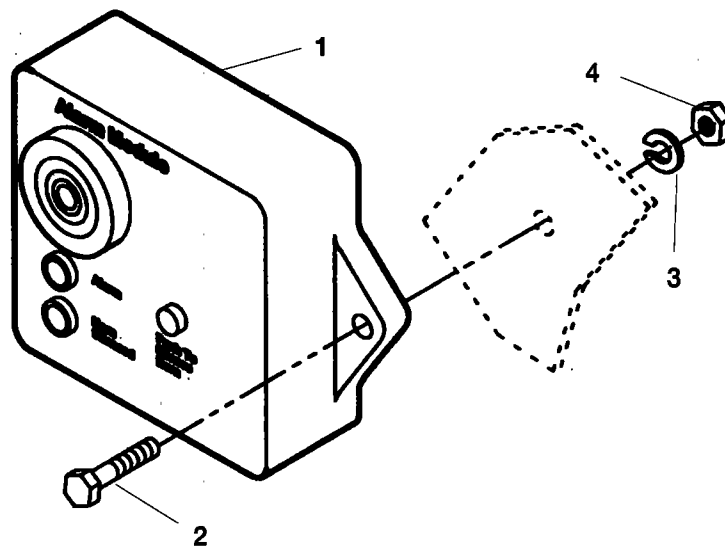
Audible Alarm Generator Sets With Detector Control



KA08

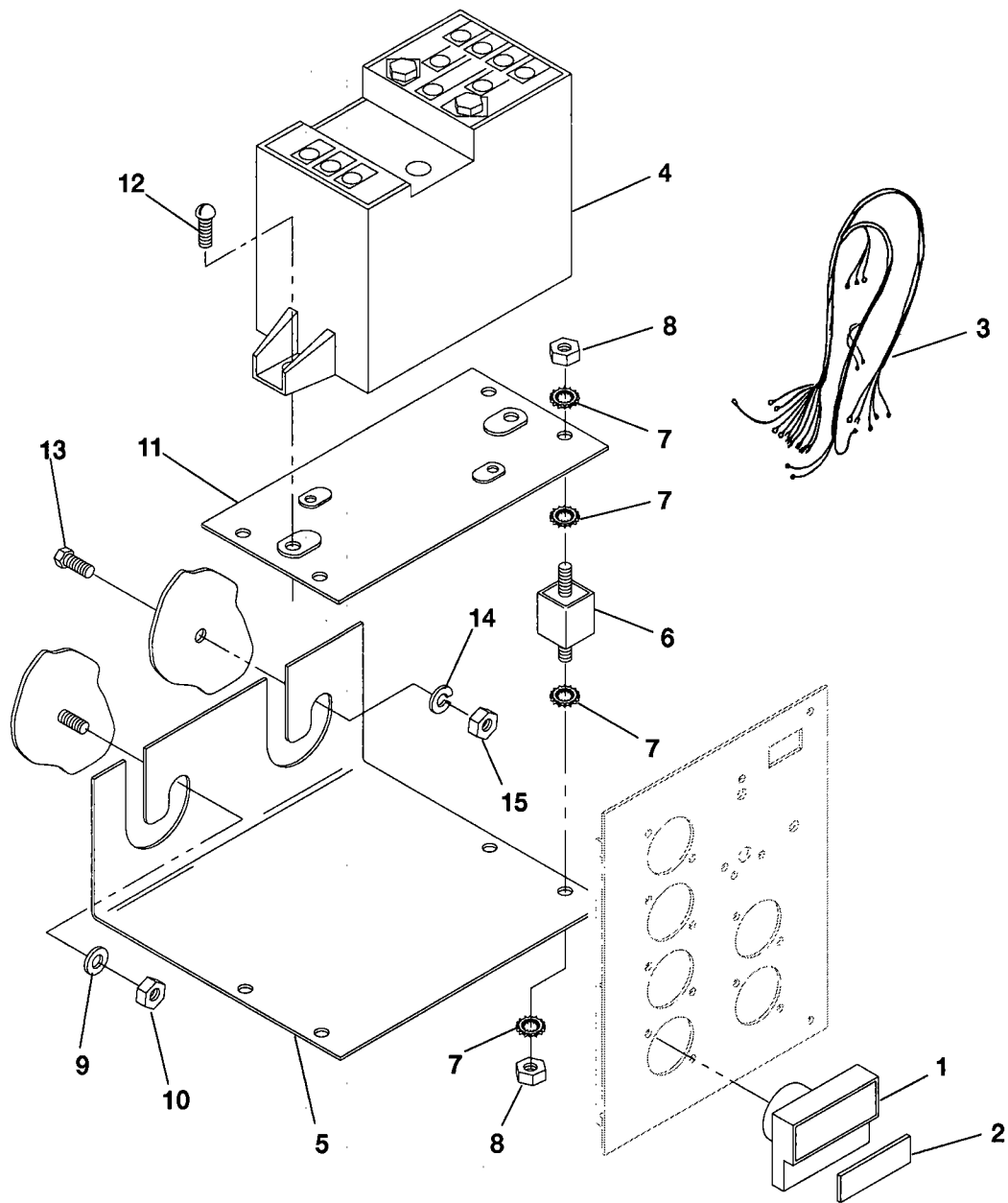
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0133	1	Alarm, Audible (DS2)	5			Nut, Hex - W/ET (#6-32)
2	319-0898	1	Plate, Mounting	870-0183	6		Used Approximately During Spec A And B
3	301-9993	2	Plate, Cover - Used Approximately During Spec A And B	870-0183	2		Used Approximately Beginning With Spec C
4			Screw, Machine - Round Head (#6-32 x 1/2")				
	815-0385	6	Used Approximately During Spec A And B				
	815-0385	2	Used Approximately Beginning With Spec C				

Audible Alarm Module
Generator Sets With PowerCommand Control
Begin Spec D



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

Wattmeter

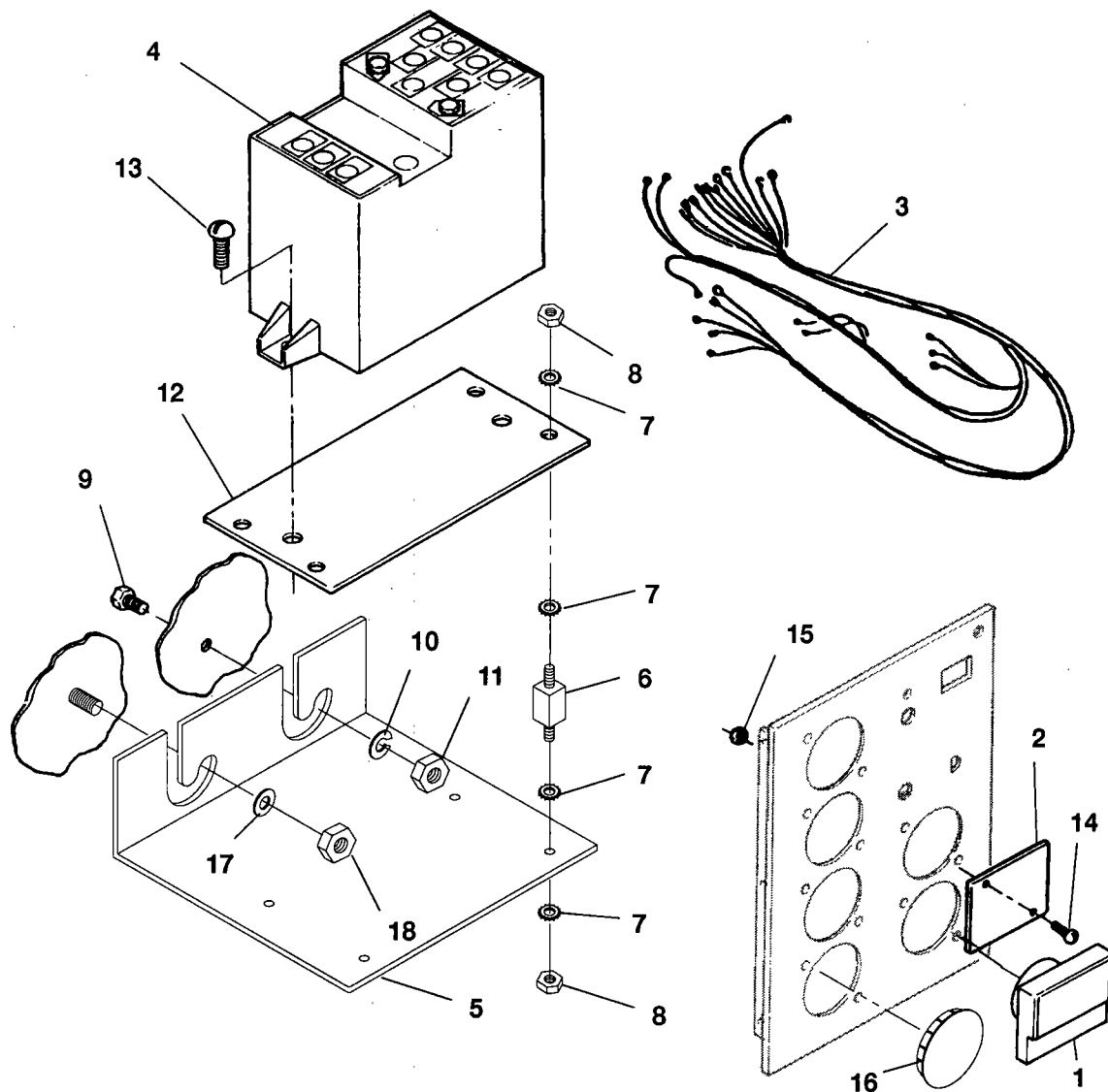


K185

Wattmeter

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1722	1	Wattmeter (Dial Not Included) (M24)	8	860-0008	8	Nut, Hex (#8-32)
2			Dial, Wattmeter	9	526-0115	2	*Washer, Flat (5/16")
	302-1721-08	1	0-200 kW Rating	10	870-0048	2	*Nut, Locking (5/16-18)
	302-1721-09	1	0-250 kW Rating	11	319-0030	1	Plate, Mounting
	302-1721-10	1	0-300 kW Rating	12	813-0102	2	Screw, Machine - Round Head (#10-32 x 5/8")
3			Harness, Wiring - Wattmeter	13	821-0017	2	#Screw, Locking - Hex Washer Head (5/16-18 x 1/2")
	338-1936	1	Reconnectable WYE, Three Phase	14	850-0045	2	#Washer, Lock - Spring (5/16")
	338-2479	1	120/240 Volt Delta, Three Phase	15	862-0014	2	#Nut, Hex (5/16-18)
4			Transducer, Watts (A21)	* - Current mounting hardware used for stud mounting application of reference number 5 mounting bracket (Used approximately beginning with Spec C) # - Mounting hardware used on early hole mounting application of reference number 5 mounting bracket (Used approximately during Spec A and B)			
	302-1833-01	1	2-1/2 Element, Three Phase, 4 Wire				
	302-1833-05	1	2 Element, Three Phase, 3 Wire				
5	301-6987	1	Bracket, Mounting				
6	402-0354	4	Mount, Shock				
7	856-0002	16	Washer, Lock - W/ET (#8)				

Power Factor Meter



K264

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1883	1	Meter, Power Factor (M25)	14	815-0385	2	^Screw, Machine – Round Head (#6-32 x 1/2")
2	301-9993	1	^Plate, Cover	15	870-0183	2	^Nut, Hex – W/ET (#6-32)
3	338-2368	1	Harness, Wiring – Meter (6 Wire, 44")	16	517-0301	1	+ Plug, Hole
4	302-1833-03	1	Transducer, Watts (A21)	17	526-0115	2	*Washer, Flat (5/16")
5	301-6987	1	Bracket, Mounting	18	870-0048	2	*Nut, Locking (5/16-18)
6	402-0354	4	Mount, Shock				
7	856-0002	16	Washer, Lock – W/ET (#8)				
8	860-0008	8	Nut, Hex (#8-32)				
9	821-0017	2	#Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")				
10	850-0045	2	#Washer, Lock – Spring (5/16")				
11	862-0014	2	#Nut, Hex (5/16-18)				
12	319-0030	1	Plate, Mounting				
13	813-0102	2	Screw, Machine – Round Head (#10-32 x 5/8")				

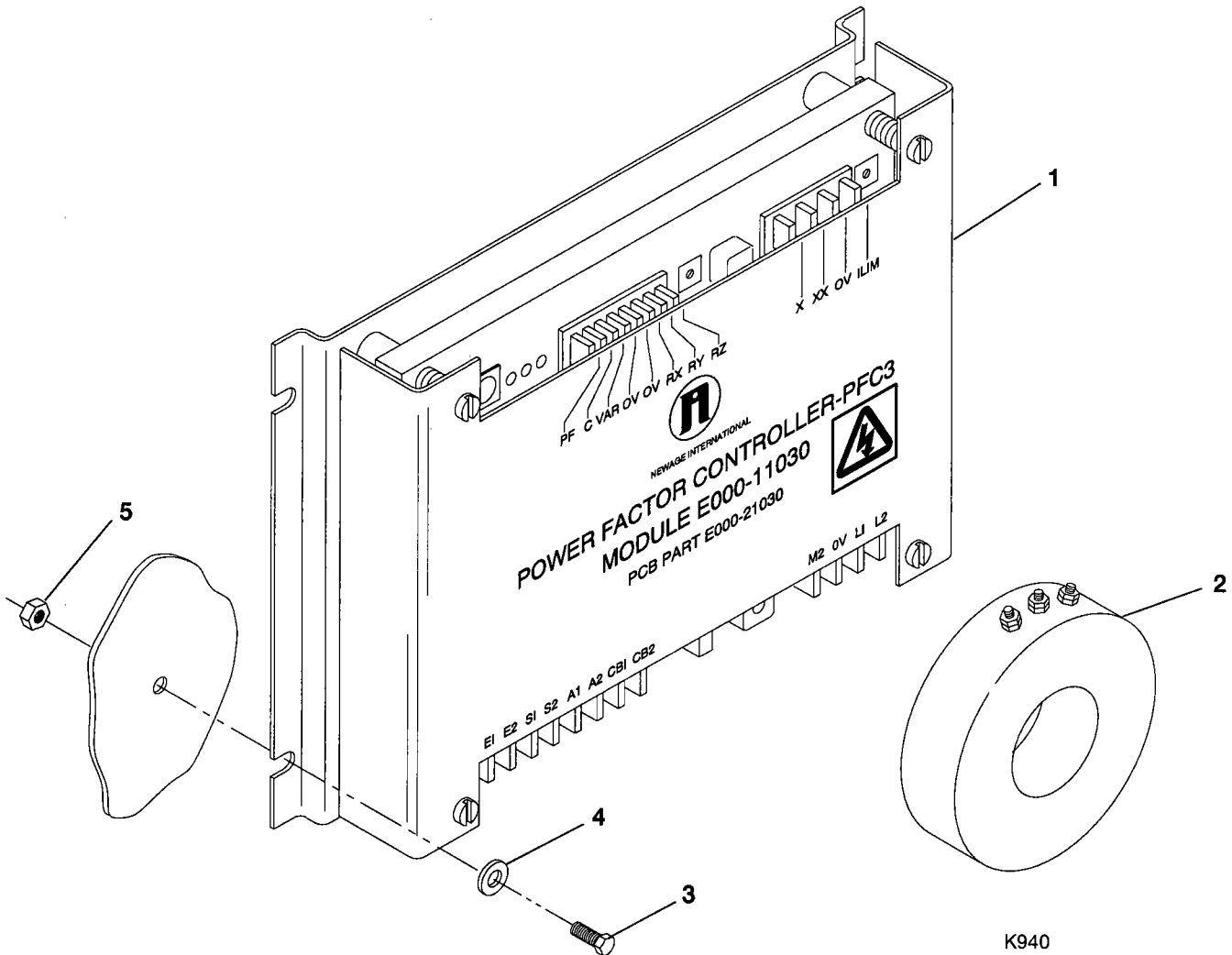
^ – Used approximately during Spec A and B

+ – Use began approximately with Spec C

– Mounting hardware used on early hole mounting application of reference number 5 mounting bracket (Used approximately during Spec A and B)

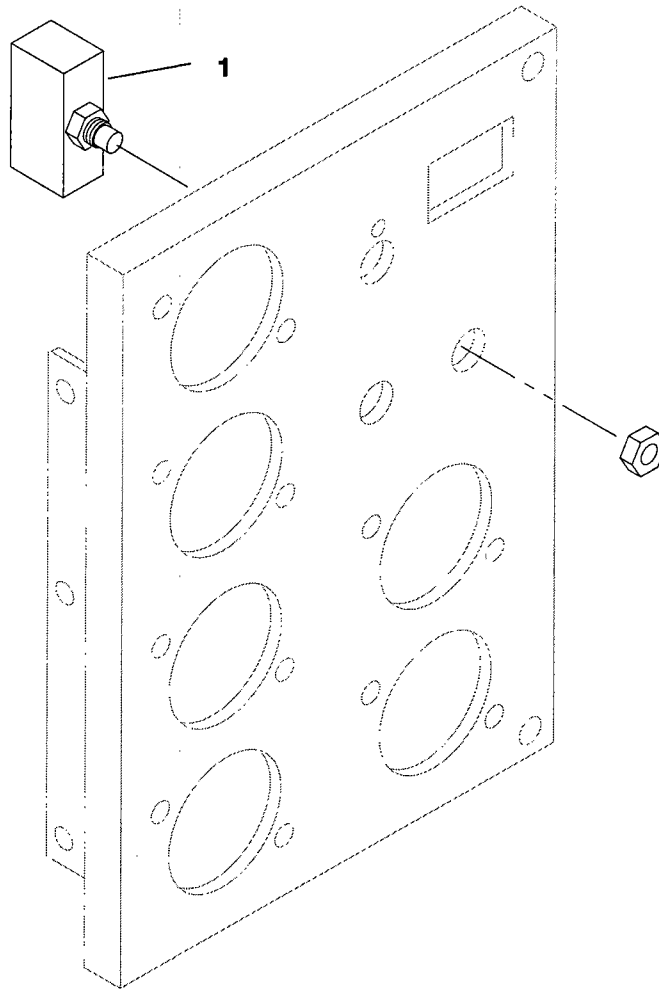
* – Current mounting hardware used for stud mounting application of reference number 5 mounting bracket (Used approximately beginning with Spec C)

VAR Power Factor Controller



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305-0836	1	Controller, Power Factor (VAR)	3	813-0103	4	Screw, Machine – Round Head (#10-32 x 3/4")
	305-0870	1	Begin Spec C	4	526-0008	4	Washer, Flat (#10)
2	302-1845-05	1	Transformer, Current (CT25)	5	870-0131	4	Nut, Hex – W/EIT (#10-32)
	302-1845-07	1	Ratio 300/5				
	302-1845-08	1	Ratio 500/5				
	302-1845-10	1	Ratio 750/5				
			Ratio 1000/5				

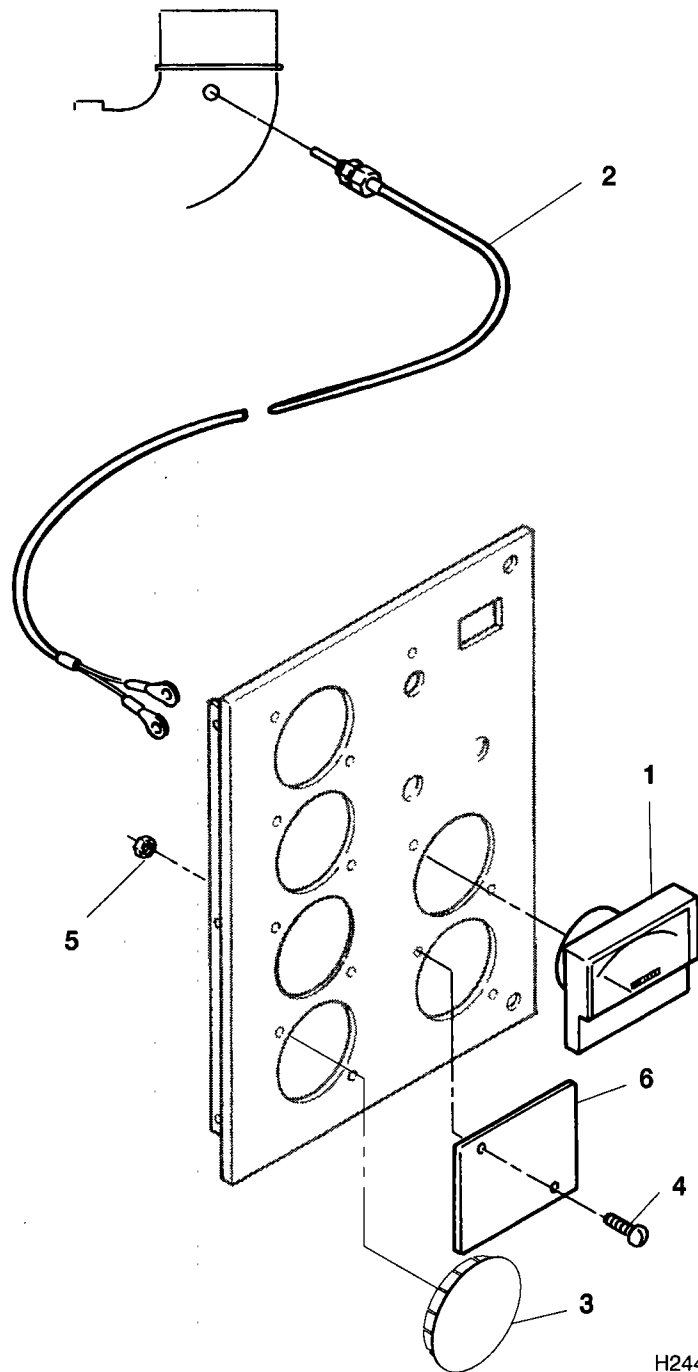
Circuit Breaker AC Control Door



H529,546,547,K600

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

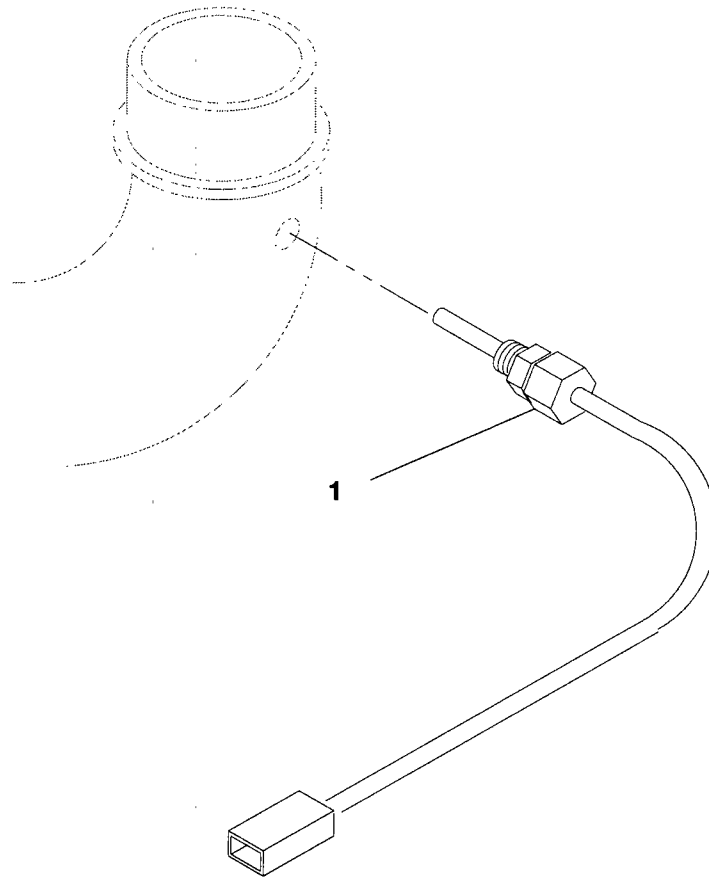
Pyrometer Generator Sets With Detector Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1874	1	Pyrometer (M26)	6	301-9993	2	#Plate, Cover
2	193-0299	1	Lead, Thermocouple				
3	517-0301	1	*Plug, Hole				
4	815-0385	4	#Screw, Machine - Round Head (#6-32 x 1/2")				
5	870-0183	4	#Nut, Hex - W/ET (#6-32)				

* - Use began approximately with Spec C
- Used approximately during Spec A and B

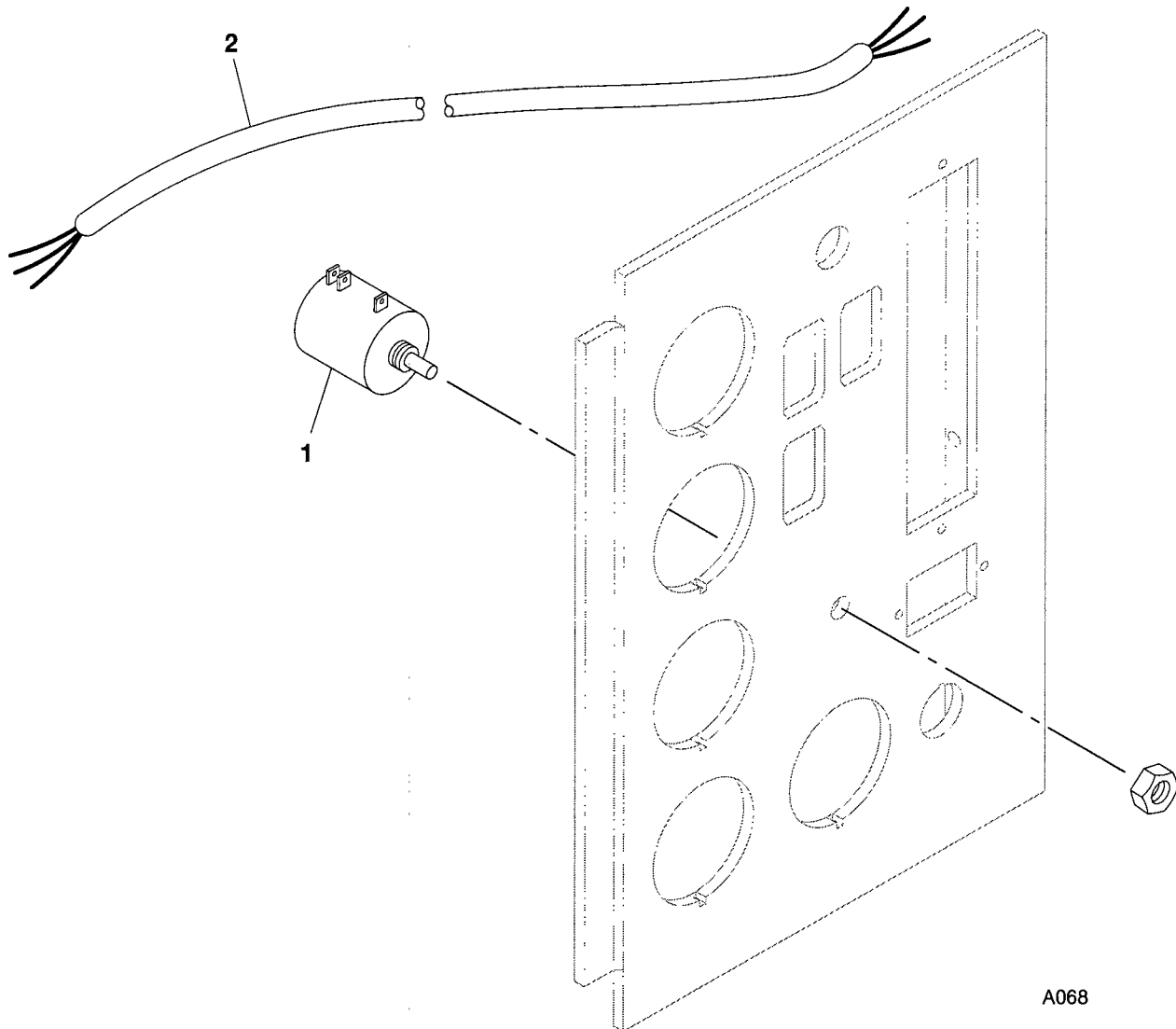
**Pyrometer
Generator Sets With PowerCommand Control
Begin Spec D**



H244

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0446-01	1	Pyrometer (17") (M26)				

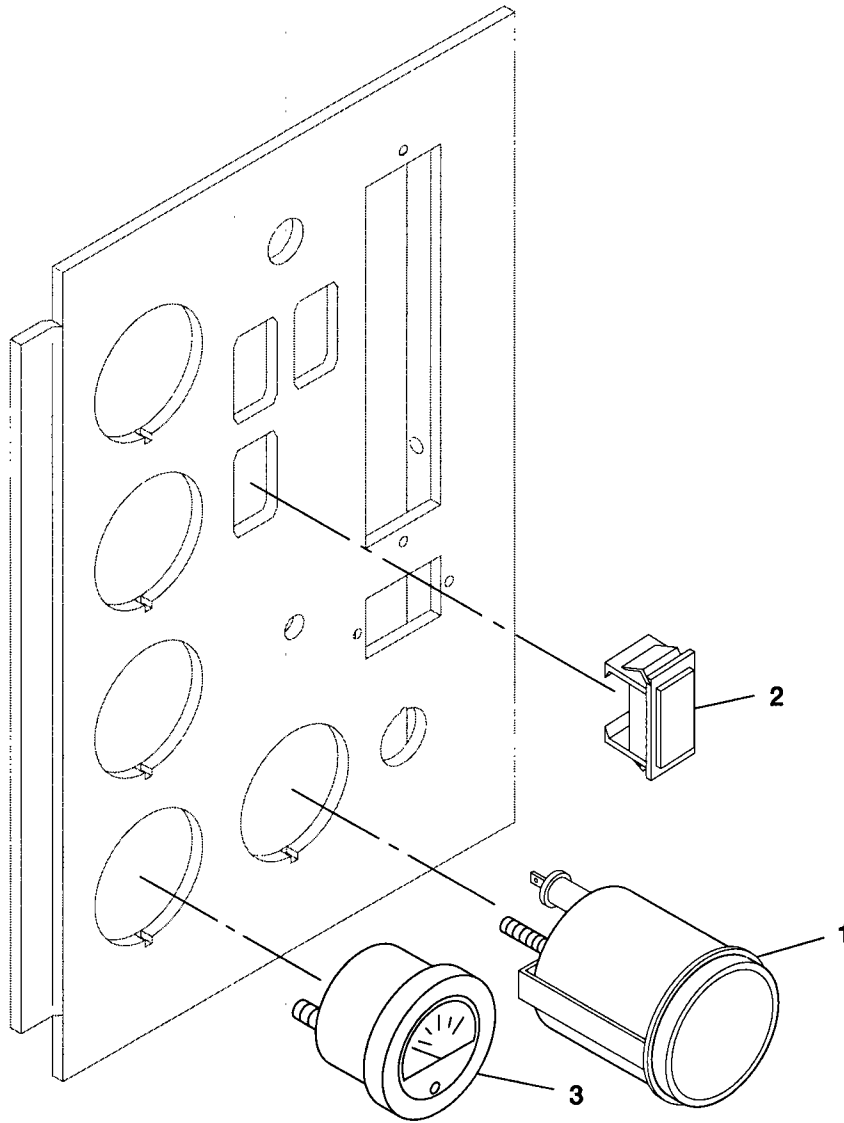
Potentiometer Speed Adjusting



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	303-0280	1	Potentiometer, Speed Adjusting – Governor Controller (R21)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	334-0116	–	Cable, Shielded – Bulk (Order by the Foot – 7 Feet Required)

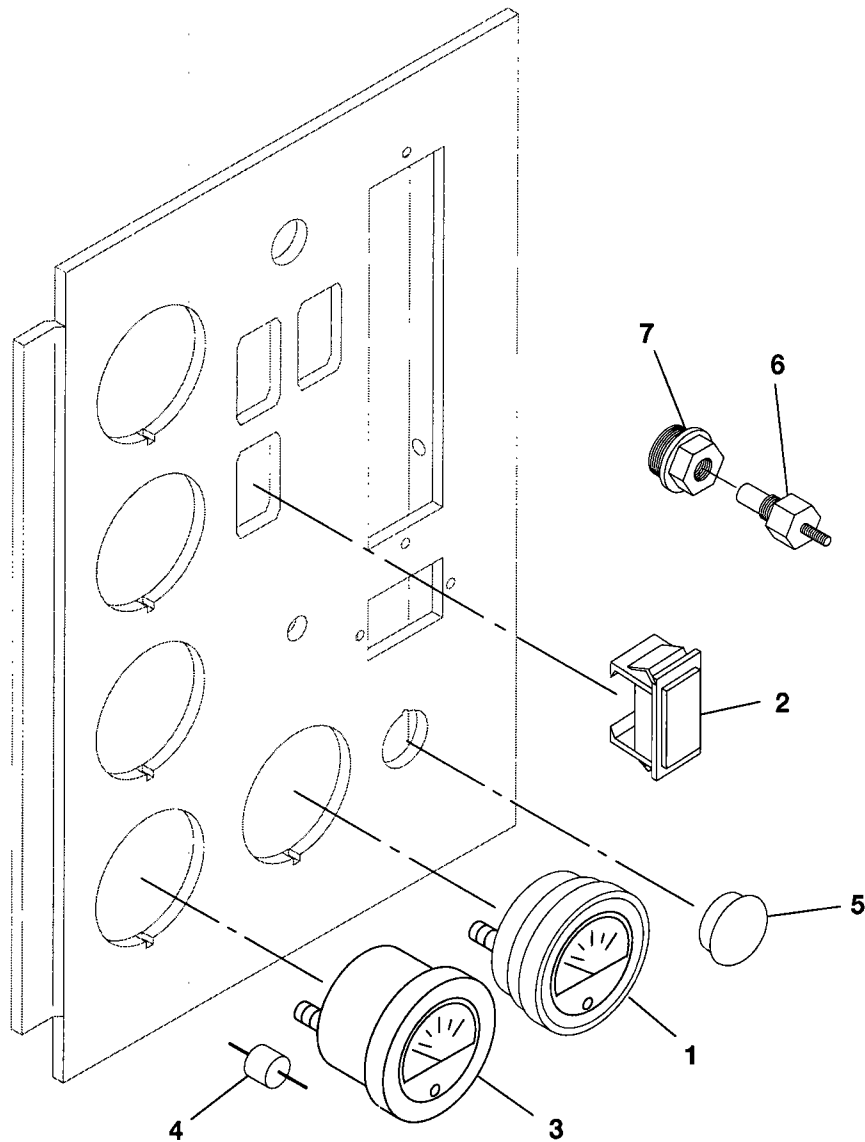
Tachometer



K145

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

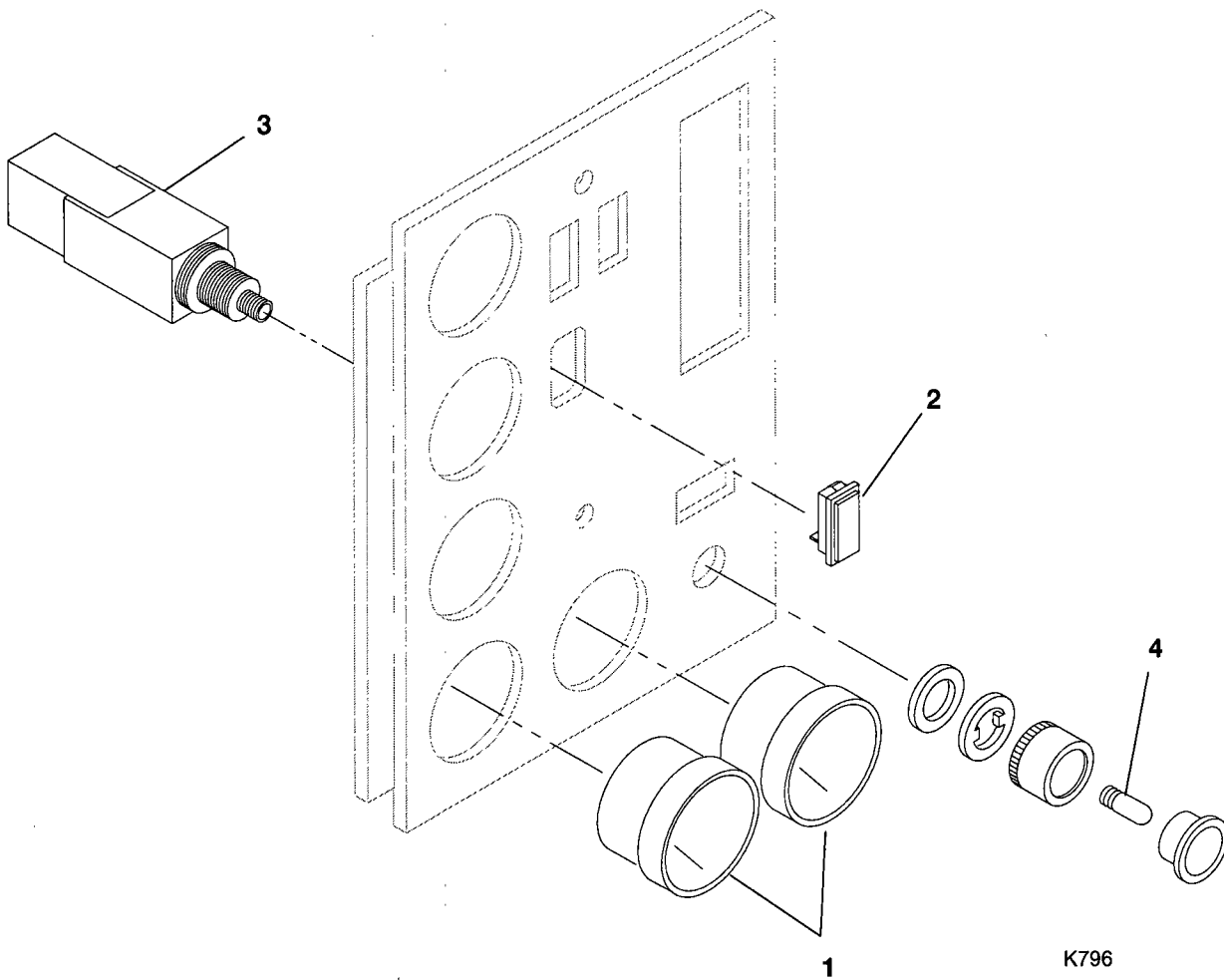
Oil Temperature Gauge



K486

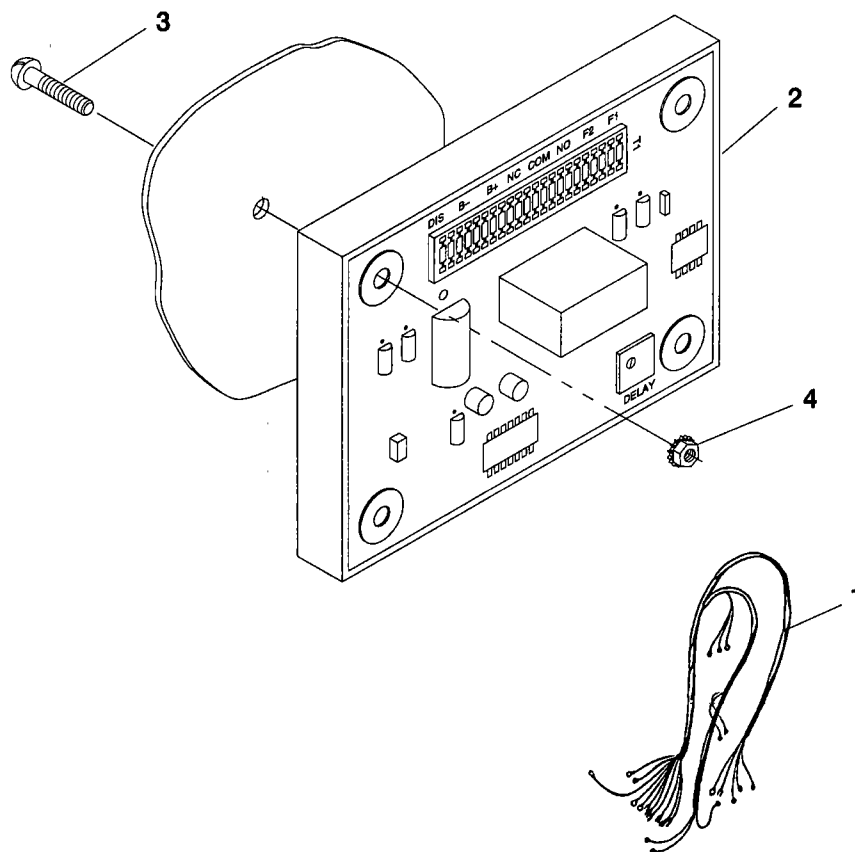
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1723	1	Ammeter – Blank Scale	5	517-0137	1	Plug, Hole (7/8" Hole)
2	301-6257	1	Switch – Blank	6	193-0388	1	Sender, Oil Temperature (E4) (Oil Pan Mounted)
3	193-0330	1	Gauge, Oil Temperature (M15) Spec A,B	7	505-0151	1	Bushing, Reducer (1/2" to 1/8") (Oil Pan Mounted)
	193-0435	1	Begin Spec C				
4	193-0250	1	Resistor, Gauge (R13)				

Emergency Stop Switch Generator Sets With Detector Control



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

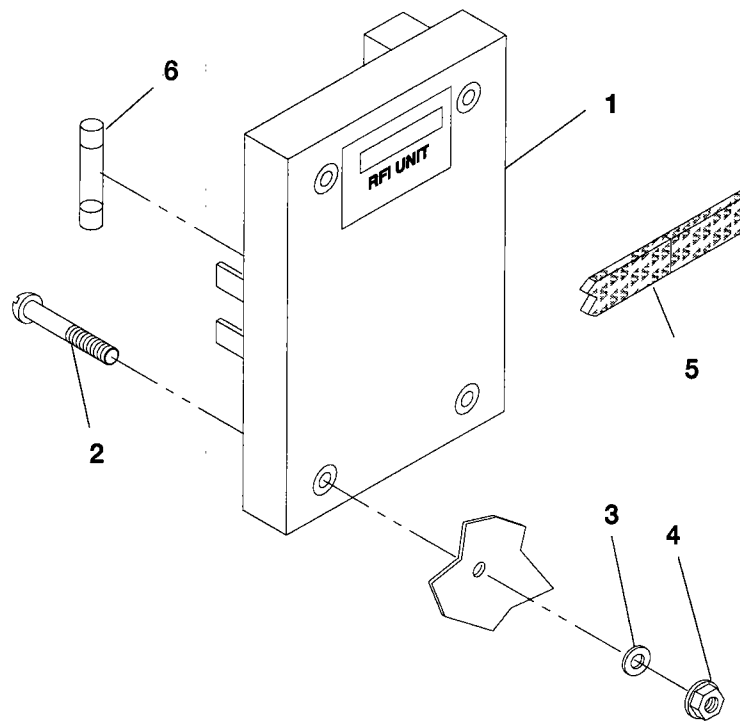
Excitation Loss Module



K991

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

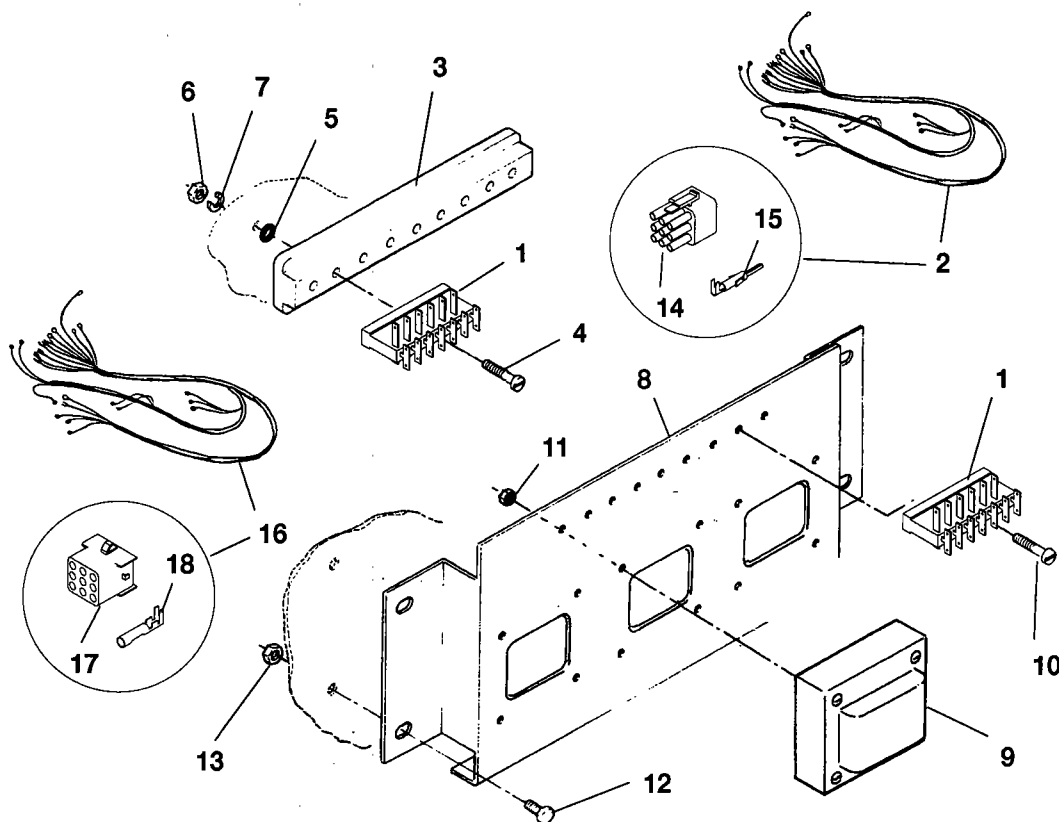
Radio Frequency Interference Module



B220

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

Auxiliary Terminal Block

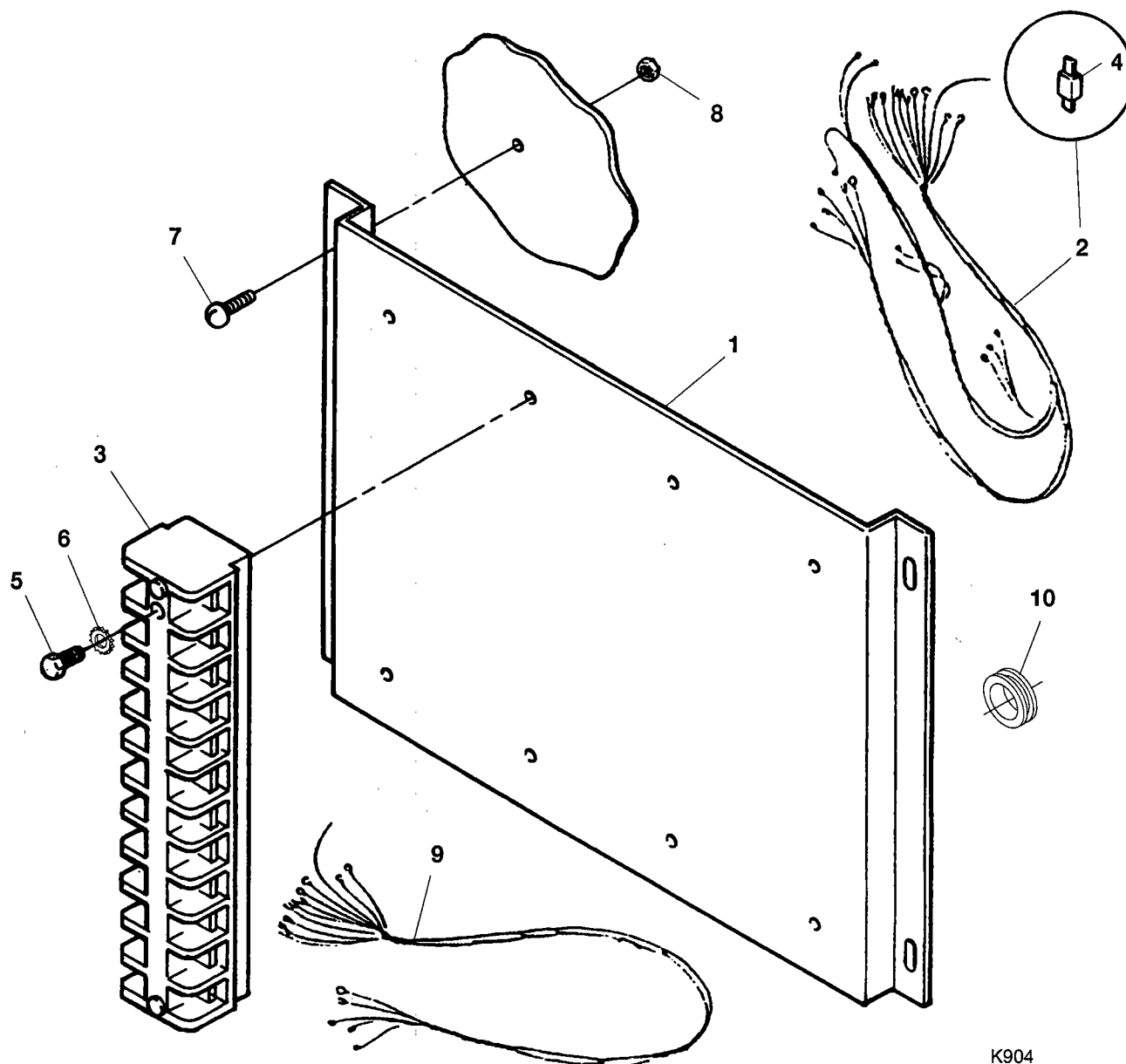


B246,258,259,260,300,301,
302,324,325,326,392

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-3007	3	*#Block, Terminal (AUX)	9	315-0717	3	Transformer (PTW, PTV, PTU)
2	338-2491	1	Harness, Wiring	10	812-0079	3	Screw, Machine – Round Head (#8-32 x 1/2")
			190-240, 380-480 Volt, 12 Lead Reconnectable Generator (Includes Parts Marked *) (AUX to TB21, VR21, A16, 8, 7, 6, 5, 4, X, XX, P2, P3, P4)	11	870-0221	12	Nut, Hex – Self-Locking – W/ET (#8-32)
			600 Volt Generator	12	821-0016	4	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
	338-2796	1	Spec A Through E (AUX to TB21, A16, VR21, TB1, TB2, 8, 7, 6, 5, X, XX, P2, P3, P4)	13	870-0257	4	Nut, Self-Locking – Hex Flange Head (5/16-18)
	338-3359	1	Begin Spec F (Includes Parts Marked #) (AUX to P1, TB21, A16, VR21, 8, 7, 6, 5, X, XX, P2, P3, P4)	14	323-1644-01	1	#Connector, Plug (9 Place) (Begin Spec F) (P1)
3	232-3536	1	*#Base, Terminal Block	15	323-1647	8	#Pin, Contact (Begin Spec F)
4	812-0085	3	*#Screw, Machine – Round Head (#8-32 x 1-1/8")	16	338-3337	1	Harness, Wiring – Transformer (Includes Parts Marked +) (Begin Spec F) (J1 to PTW, PTV, PTU)
5	509-0065	3	*#Seal, O-Ring	17	323-1644-02	1	+Connector, Housing (9 Place) (Begin Spec F) (J1)
6	870-0221	3	Nut, Hex – W/ET (#8-32)	18	323-1648	9	+Socket, Contact (Begin Spec F)
7	850-0025	3	Washer, Lock – Spring (#10)				
8	319-1245	1	Bracket, Mounting				

* – Parts Included in Wiring Harness 338-2491
– Parts Included in Wiring Harness 338-3359
+ – Parts Includes in Wiring Harness 338-3337

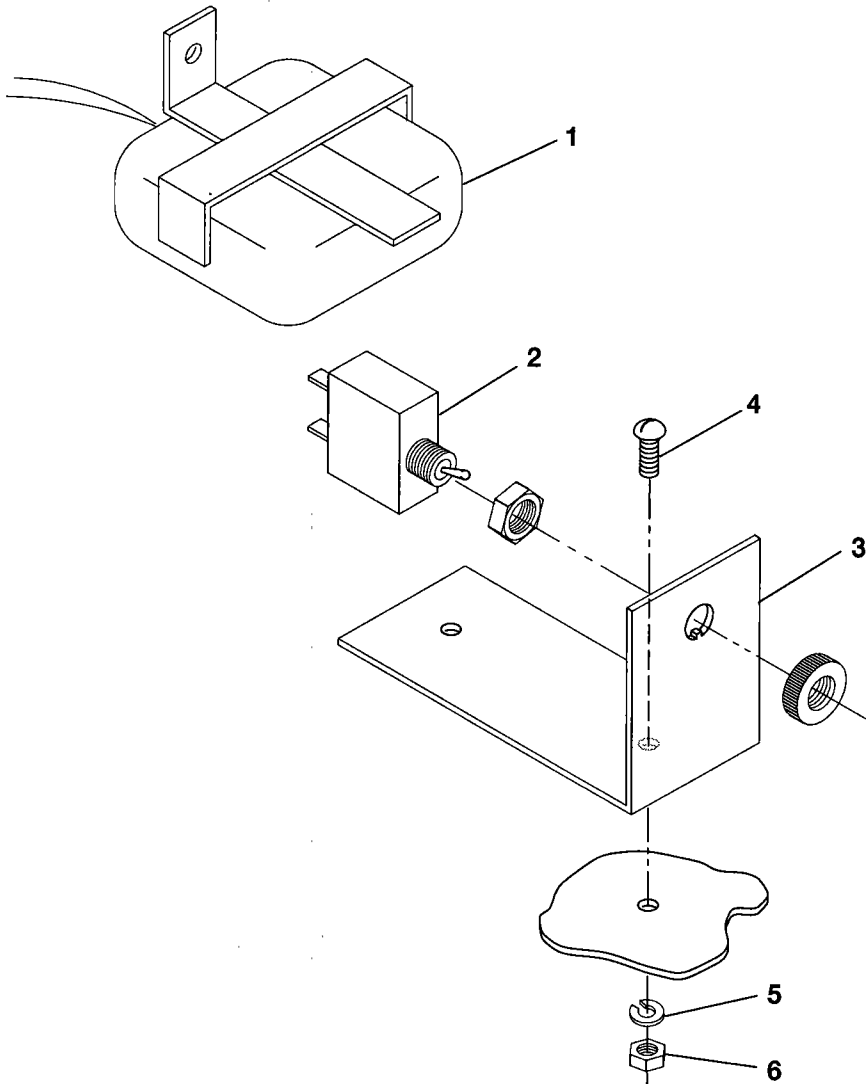
Paralleling Interconnect Terminal Block



K904

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

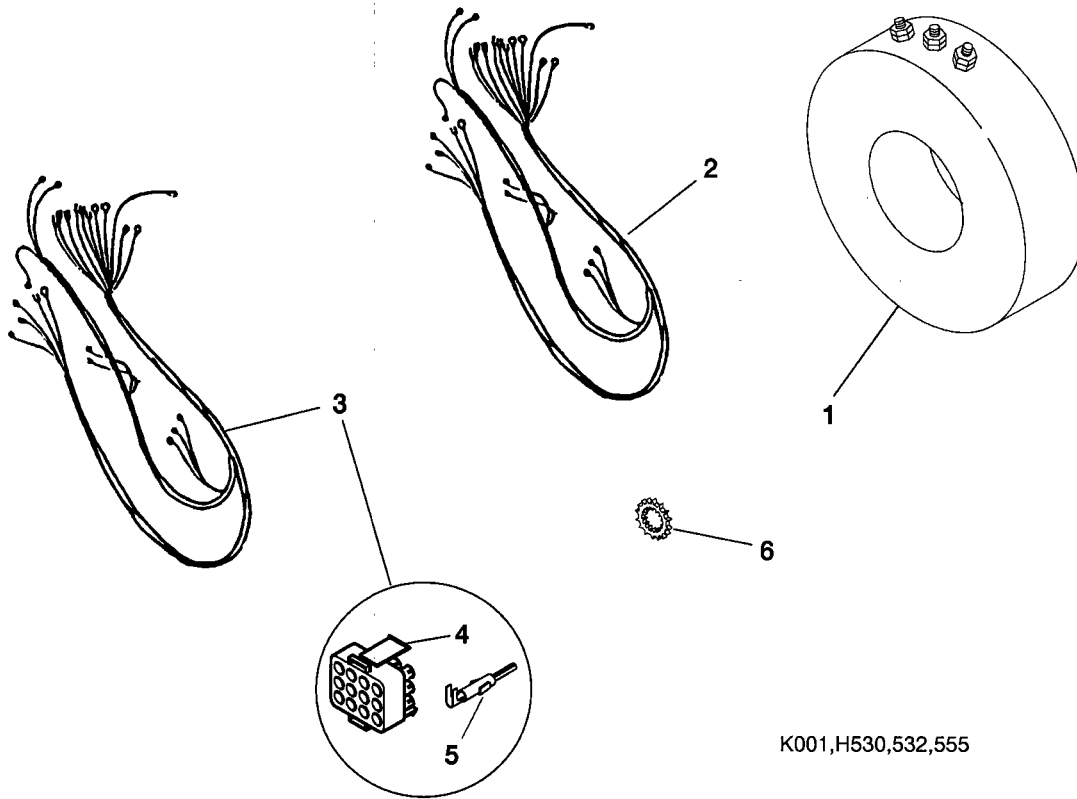
Cross Current Compensation Circuit



K611

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1852-02	1	Transformer, Current – 600:0.37 Ratio	4	813-0100	2	Screw, Machine – Round Head (#10-32 x 1/2")
2	308-0069	1	Switch, Toggle (S22)	5	850-0030	2	Washer, Lock – Spring (#10)
3	301-9657	1	Bracket, Mounting	6	870-0053	2	Nut, Hex (#10-32)

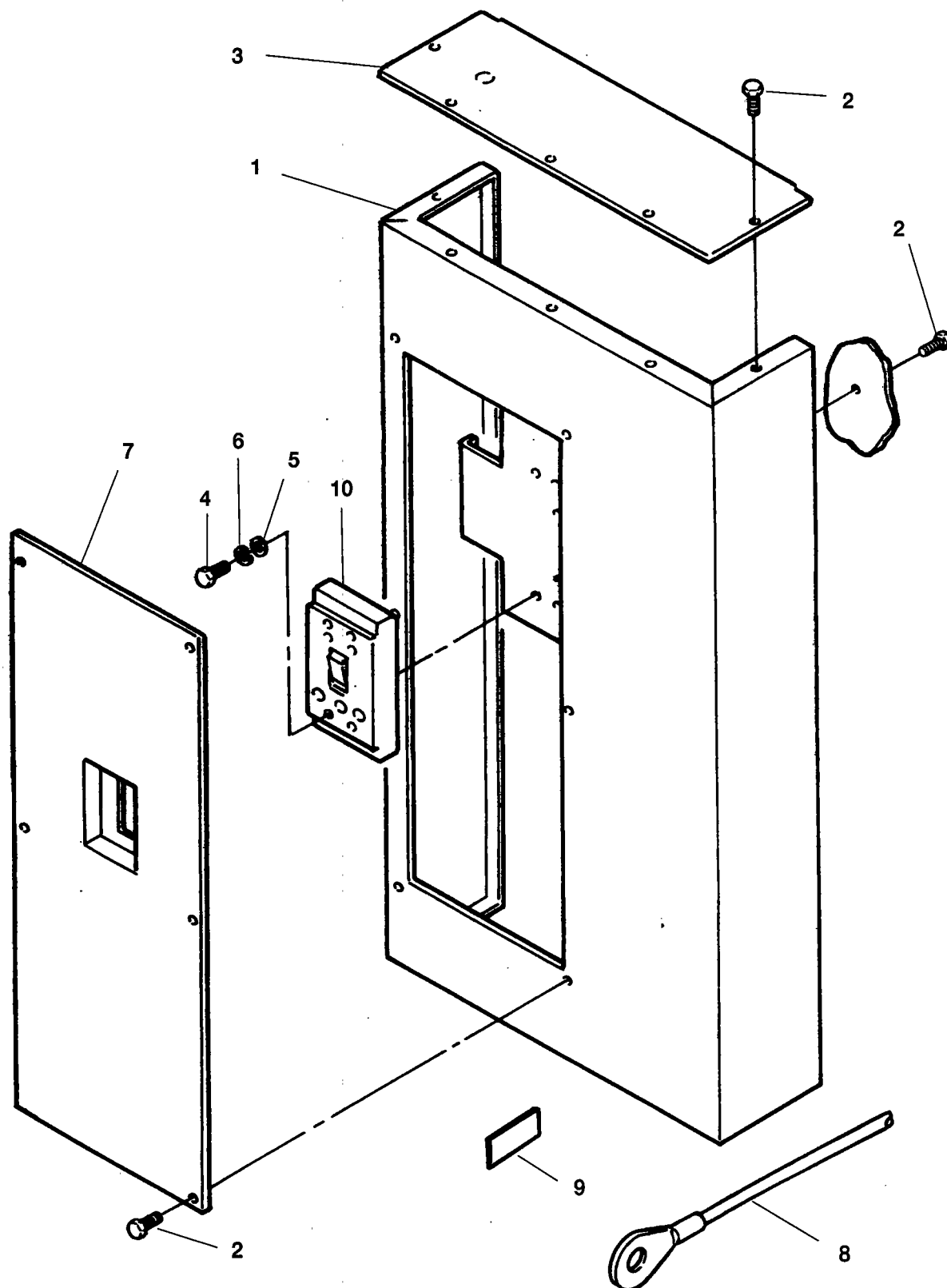
Current Transformer



K001,H530,532,555

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT21, CT22, CT23) Generator Sets With Detector Control	2	338-1980	1	Harness, Wiring – Generator Sets With Detector Control (TB21 And GND To CT21,22,23) (61")
	302-1794-07	3	Ratio 375/5 or 750/5	3	338-3019	1	Harness, Wiring – Generator Sets With PowerCommand Control – Begin Spec D (Includes Plug And Sockets) (P9 To CT21,22,23 And 5,6,7,8) (60")
	302-1794-08	3	Ratio 400/5 or 800/5				
	302-1794-09	3	Ratio 500/5 or 1000/5				
	302-1794-10	3	Ratio 600/5 or 1200/5				
	302-1794-11	3	Ratio 750/5 or 1500/5				
			Generator Sets With Power Command Control – Begin Spec D	4	323-1644-03	1	Plug – 12 Place – Generator Sets With PowerCommand Control – Begin Spec D (P9)
	302-1922-11	3	Ratio 432/1 or 864/1				
	302-1922-14	3	Ratio 518/1 or 1036/1	5	323-1648	10	Socket, Contract – Generator Sets With PowerCommand Control – Begin Spec D
	302-1922-15	3	Ratio 552/1 or 1104/1				
	302-1922-17	3	Ratio 631/1 or 1262/1				
	302-1922-19	3	Ratio 725/1 or 1450/1	6	856-0008	2	Washer, Lock – EIT (5/16") (Grounding Wires)
	302-1922-21	3	Ratio 789/1 or 1578/1				

**Circuit Breaker
UL Approved
Spec A and B**

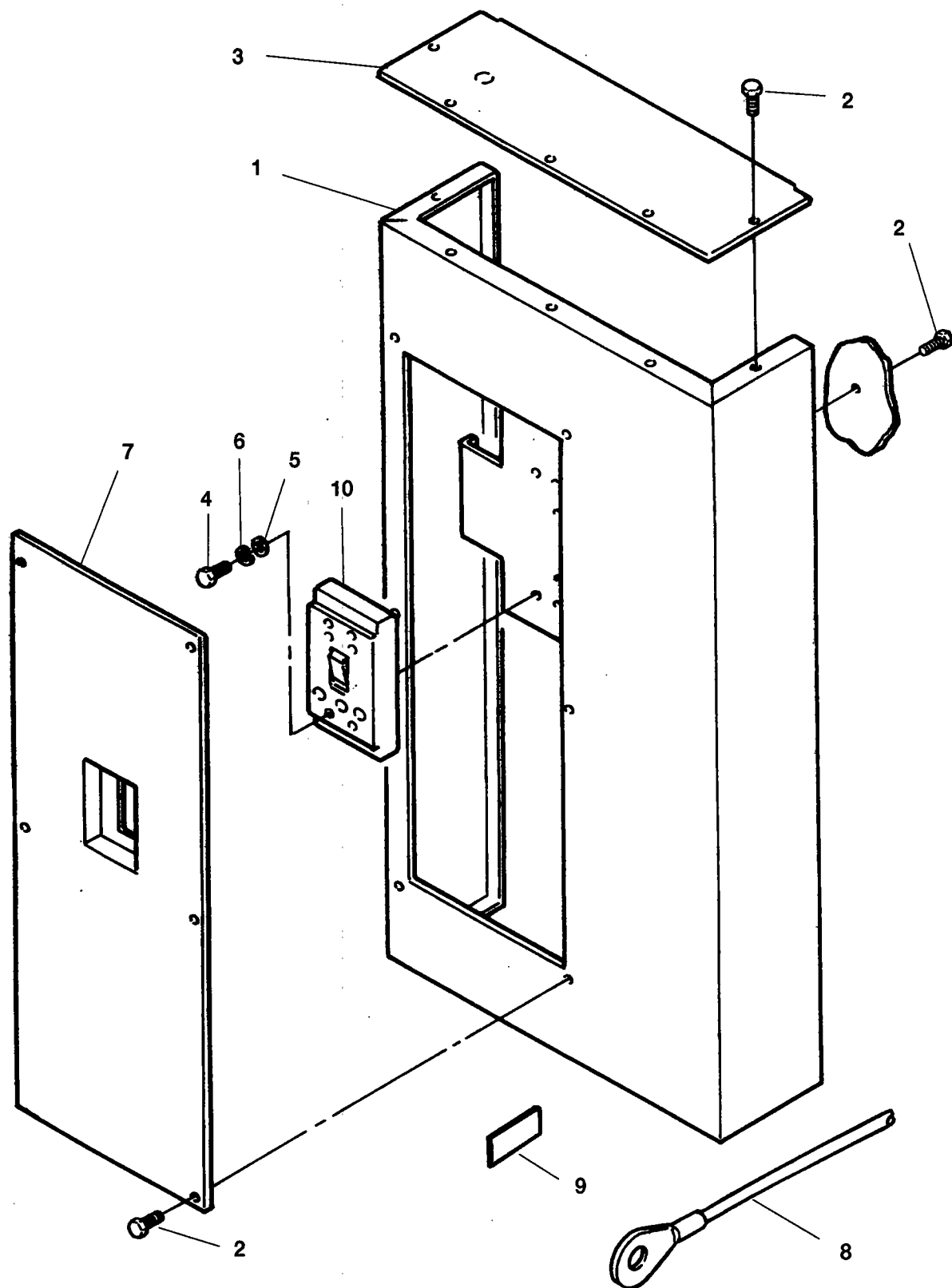


**Circuit Breaker
UL Approved
Spec A and B**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9654	1	Box, Circuit Breaker	8			Lead, Circuit Breaker (Quantity Used As Required)
2	821-0010	22	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")		226-3371	1	40"
3	319-1355	2	Panel		226-3376	1	56" (Marked "LO")
4			Screw - Breaker Mounting	9	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers) (Quantity Used As Required)
	812-0157	4	Machine - Round Head (1/4-20 x 1-3/4")				
	812-0094	4	Machine - Round Head (#8-32 x 3-1/2")				
	800-0031	4	Cap - Hex Head (5/16-18 x 1-1/2")				
5			Washer, Flat - Breaker Mounting				
	526-0108	4	1/4"				
	526-0048	4	#8				
	526-0115	4	5/16"				
6			Washer, Lock - Spring - Breaker Mounting				
	850-0040	4	1/4"				
	850-0025	4	#8				
	850-0045	4	5/16"				
7			Cover				
			1-1/4" x 3" Circuit Breaker Opening				
	301-9652	1	Circuit Breaker Opening Recessed 1-1/2"				
	319-1368	1	Circuit Breaker Opening Recessed 2-7/16"				
	319-0767	1	2-7/8" x 3-5/8" Circuit Breaker Opening				
	319-1131	1	3-3/8" x 4-1/8" Circuit Breaker Opening				
	301-9651	1	3-1/2" x 4-1/4" Circuit Breaker Opening				

Continued...

**Circuit Breaker
UL Approved
Spec A and B**

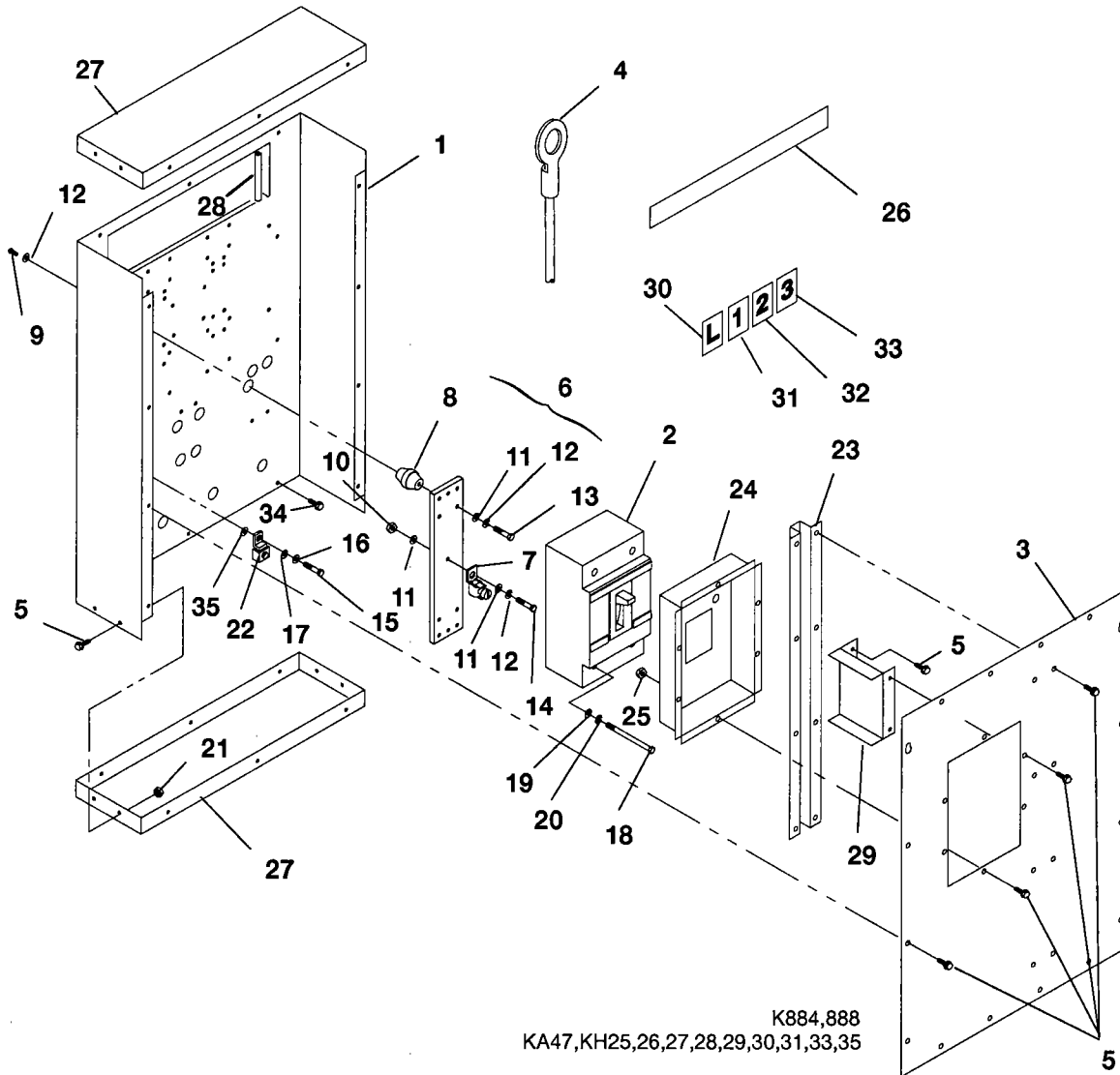


**Circuit Breaker
UL Approved
Spec A and B**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
10			Breaker, Circuit (Includes Lugs) (CB21)				
			Standard				With Auxiliary Contacts and Shunt Trip
	320-1458-26	1	80 Amp		320-1491-09	1	200 Amp
	320-1459-04	1	100 Amp		320-1491-10	1	225 Amp
	320-1459-09	1	200 Amp		320-1492-06	1	250 Amp
	320-1459-10	1	225 Amp		320-1492-07	1	300 Amp
	320-1460-06	1	250 Amp		320-1492-08	1	350 Amp
	320-1460-07	1	300 Amp		320-1492-09	1	400 Amp
	320-1460-08	1	350 Amp		320-1492-10	1	* 450 Amp
	320-1460-09	1	400 Amp		320-1492-11	1	* 500 Amp
	320-1460-10	1	* 450 Amp		320-1492-12	1	* 600 Amp
	320-1460-11	1	* 500 Amp		320-1493-07	1	* 700 Amp
			600 Amp		320-1493-08	1	* 800 Amp
	320-1460-12	1	* General Electric "J" Frame		320-1493-09	1	* 1000 Amp
	320-1461-06	1	* General Electric "K" Frame		320-1493-10	1	* 1200 Amp
	320-1461-07	1	* 700 Amp				With Bell Alarm Switch
	320-1461-08	1	* 800 Amp		320-1589-09	1	200 Amp
	320-1461-09	1	* 1000 Amp		320-1589-10	1	225 Amp
	320-1461-10	1	* 1200 Amp		320-1644-06	1	250 Amp
			With Auxiliary Contacts		320-1644-07	1	300 Amp
	320-1463-09	1	200 Amp		320-1644-08	1	350 Amp
	320-1463-10	1	225 Amp		320-1644-09	1	400 Amp
	320-1464-06	1	250 Amp		320-1644-10	1	* 450 Amp
	320-1464-07	1	300 Amp		320-1644-11	1	* 500 Amp
	320-1464-08	1	350 Amp		320-1644-12	1	* 600 Amp
	320-1464-09	1	400 Amp				With Auxiliary Contacts, Shunt Trip and Bell Alarm Switch
	320-1464-10	1	* 450 Amp		320-1799	1	350 Amp
	320-1464-11	1	* 500 Amp				With Adjustable Rating Plugs and Solid State Trip
	320-1464-12	1	* 600 Amp		320-1700-13	1	500 Amp
	320-1465-07	1	* 700 Amp		320-1700-14	1	600 Amp
	320-1465-08	1	* 800 Amp		320-1700-15	1	700 Amp
	320-1465-09	1	* 1000 Amp		320-1700-16	1	800 Amp
	320-1465-10	1	* 1200 Amp				Solid State Trip With 100% Amp Rating
			With Shunt Trip		320-1789	1	600 Amp - With Shunt Trip
	320-1470-31	1	150 Amp				
	320-1471-09	1	200 Amp				
	320-1471-10	1	225 Amp				
	320-1472-06	1	250 Amp				
	320-1472-07	1	300 Amp				
	320-1472-08	1	350 Amp				
	320-1472-09	1	400 Amp				
	320-1472-10	1	* 450 Amp				
	320-1472-11	1	* 500 Amp				
	320-1472-12	1	* 600 Amp				
	320-1473-07	1	* 700 Amp				
	320-1473-08	1	* 800 Amp				
	320-1473-09	1	* 1000 Amp				
	320-1473-10	1	* 1200 Amp				

* - Circuit Breakers With Interchangeable Trip

**Circuit Breaker
UL Approved
Spec C Through F**



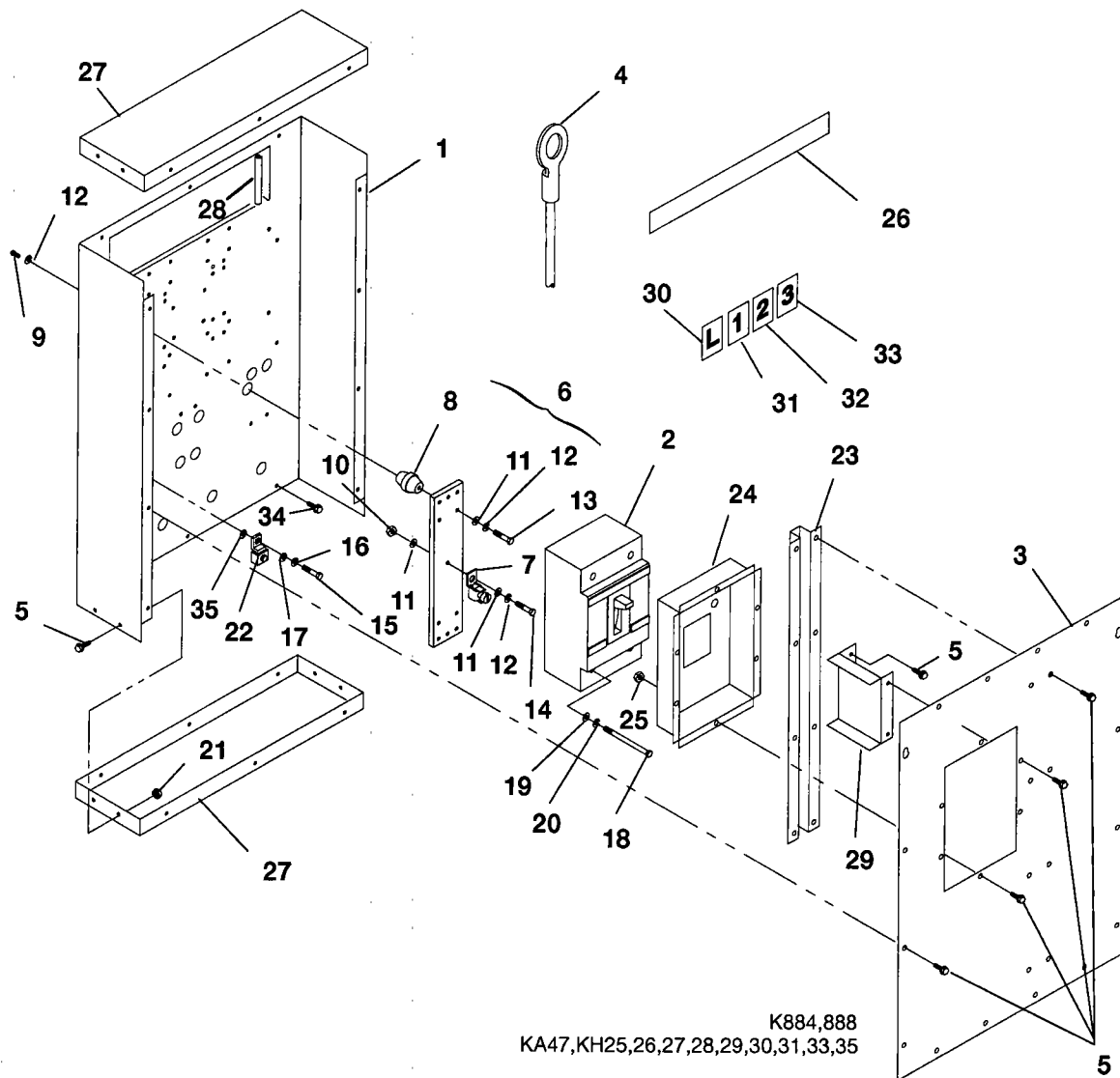
**Circuit Breaker
UL Approved
Spec C Through F**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2432	1	Box, Circuit Breaker	4			Lead, Circuit Breaker (Quantity
2			Breaker, Circuit - 3 Pole				Used As Required) 39"
			(Includes Lugs) (CB21)				(Without Markings) (#1/0 Wire)
			Standard	226-4406-03	1		1/2" Ring Terminal End to 1"
320-1458-25	1		70 Amp				Stripped End
320-1460-08	1		350 Amp	226-4406-04	1		1/2" Ring Terminal End to
320-1460-09	1		400 Amp				1/2" Ring Terminal End
320-1460-10	1	*	450 Amp	5	821-5002-03	40	Screw, Self-Locking - Hex
320-1460-11	1	*	500 Amp				Washer Head (1/4-20 x 1/2")
320-1460-12	1	*	600 Amp	6	300-4318	1	Bar Assembly, Neutral (Includes
320-1461-07	1	*	700 Amp				Parts Marked #)
320-1461-08	1	*	800 Amp	7	332-2001	3	#Lug, Solderless
320-1461-09	1	*	1000 Amp	8	332-2744-07	2	#Standoff, Insulator
320-1461-10	1	*	1200 Amp	9	800-0048	2	#Screw, Cap - Hex Head
			With Auxiliary Contacts				(3/8-16 x 3/4")
320-1464-08	1		350 Amp	10	862-0003	3	#Nut, Hex (3/8")
320-1464-09	1		400 Amp	11	526-0029	8	#Washer, Flat (3/8")
320-1464-10	1	*	450 Amp	12	850-0050	7	#Washer, Lock - Spring (3/8")
320-1464-11	1	*	500 Amp	13	800-0051	2	#Screw, Cap - Hex Head
320-1464-12	1	*	600 Amp				(3/8-16 x 1-1/4")
320-1465-07	1	*	700 Amp	14	800-0052	3	#Screw, Cap - Hex Head
320-1465-08	1	*	800 Amp				(3/8-16 x 1-1/2")
320-1465-09	1	*	1000 Amp	15	800-0050	1	Screw, Cap - Hex Head
320-1465-10	1	*	1200 Amp				(3/8-16 x 1")
			With Shunt Trip	16	850-0050	1	Washer, Lock - Spring (3/8")
320-1470-43	1		80 Amp	17	526-0029	1	Washer, Flat (3/8")
320-1472-08	1		350 Amp	18			Screw
320-1472-09	1		400 Amp		812-0094	4	Machine - Round Head
320-1472-10	1	*	450 Amp				(#8-32 x 3-1/2") 30 to 150
320-1472-11	1	*	500 Amp				Amp Breakers
320-1472-12	1	*	600 Amp		813-0118	4	Machine - Round Head
320-1473-07	1	*	700 Amp				(#10-32 x 4-1/2") 200 Amp
320-1473-08	1	*	800 Amp				Breaker
320-1473-09	1	*	1000 Amp		812-0157	4	Machine - Round Head
320-1473-10	1	*	1200 Amp				(1/4-20 x 1-3/4") 350 To 600
320-1656-11	1		With Bell Alarm 800 Amp				Amp Breakers
			With Auxiliary Contacts		800-0031	4	Cap - Hex Head
			and Shunt Trip				(5/16-18 x 1-1/2") 700 To
320-1492-08	1		350 Amp				1200 Amp Breakers
320-1492-09	1		400 Amp	19			Washer, Flat
320-1492-10	1	*	450 Amp		526-0048	4	#8 - 30 to 150 Amp Breakers
320-1492-11	1	*	500 Amp		526-0008	4	#10 - 200 Amp Breaker
320-1492-12	1	*	600 Amp		526-0108	4	1/4" - 350 To 600 Amp
320-1493-07	1	*	700 Amp				Breakers
320-1493-08	1	*	800 Amp		526-0115	4	5/16" - 700 To 1200 Amp
320-1493-09	1	*	1000 Amp				Breakers
320-1493-10	1	*	1200 Amp				
			With Auxiliary Contacts				
			and Bell Alarm				
320-1641-01	1		200 Amp				
320-1641-12	1		400 Amp				
320-1641-17	1		500 Amp				
320-1637-15	1		With Shunt Trip and Bell				
			Alarm 350 Amp				
320-1958	1		With Auxiliary Contacts,				
			Shunt Trip and Bell Alarm				
			1000 Amp				
3	319-1917	1	Cover				

* - Circuit Breakers With Interchangeable Trip
- Parts Included In 300-4318 Neutral Bar Assembly

Continued...

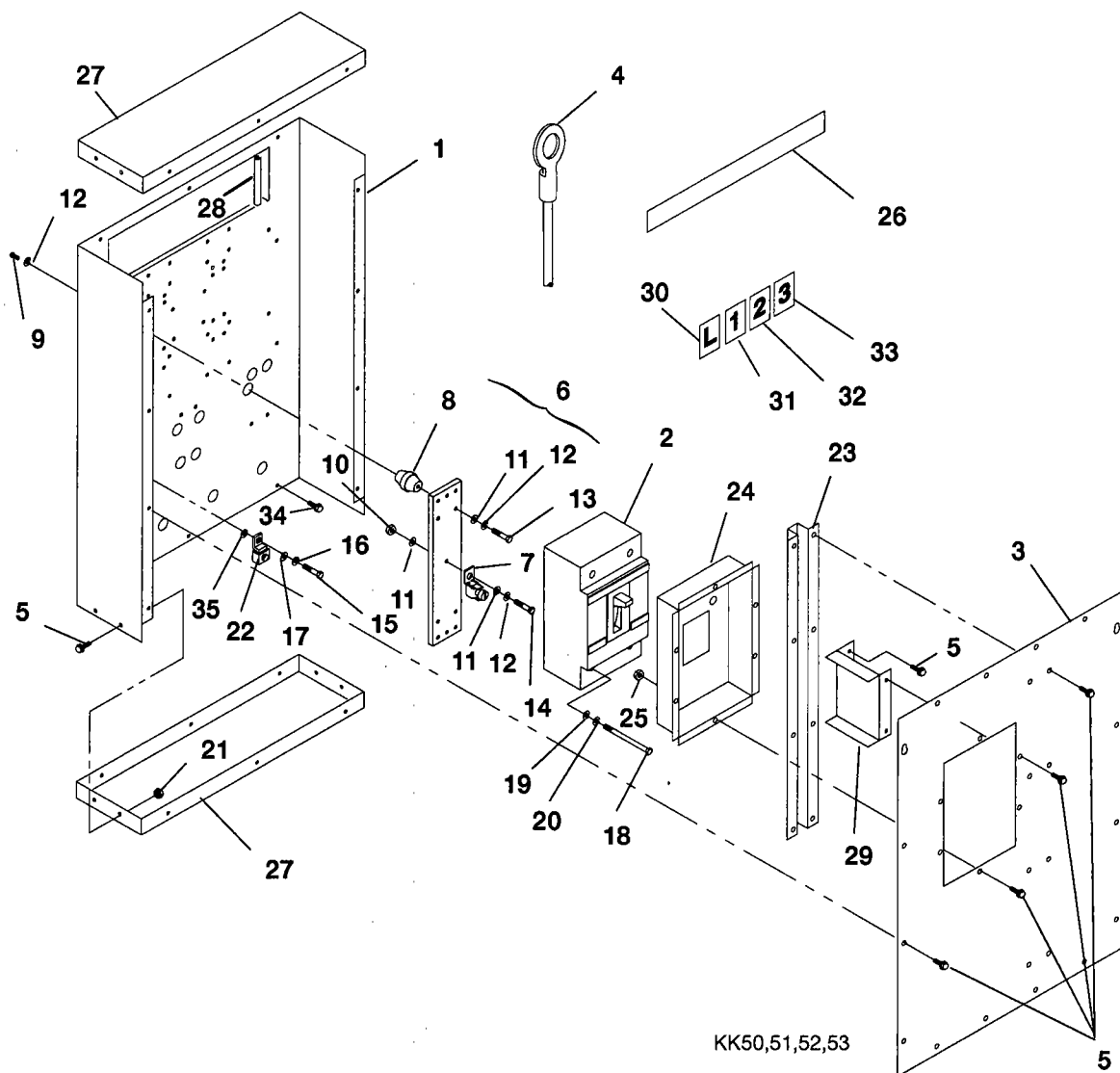
**Circuit Breaker
UL Approved
Spec C Through F**



**Circuit Breaker
UL Approved
Spec C Through F**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				27	319-1915	2	Panel
				28	508-1092	-	Edging - Bulk (Order By The Foot - 3 Feet Required)
20			Washer, Lock - Spring	29	319-1927	1	Brace, Cover
	850-0025	4	#8 - 30 to 150 Amp Breakers	30	098-5854-06	3	Label, Marker (10 Characters Per Card) Marked "L"
	850-0030	4	#10 - 200 Amp Breaker	31	098-5854-07	1	Label, Marker (10 Characters Per Card) Marked "1"
	850-0040	4	1/4" - 350 To 600 Amp Breakers	32	098-5854-08	1	Label, Marker (10 Characters Per Card) Marked "2"
	850-0045	4	5/16" - 700 To 1200 Amp Breakers	33	098-5854-09	1	Label, Marker (10 Characters Per Card) Marked "3"
21	870-0494	16	Nut, Self-Retaining (1/4-20)	34	821-5002-04	5	Screw, Self-Locking - Hex Washer Head (1/4-20 x 5/8")
22	332-2001	1	Lug, Solderless	35	856-0010	1	Washer, Lock - EIT (3/8")
23	319-1918	1	Brace, Cover	* - Circuit Breakers With Interchangeable Trip # - Parts Included In 300-4318 Neutral Bar Assembly			
24			Cup, Circuit Breaker				
	319-2431-11	1	1-1/8" x 2-7/8" Opening				
	319-2431-12	1	1-7/16" x 3-9/16" Opening				
	319-2431-13	1	2-9/16" x 3-5/8" Opening				
	319-2431-14	1	3-1/8" x 4-1/8" Opening				
25	870-0212	6	Nut, Locking (1/4-20)				
26	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers) (Quantity Used As Required)				

**Disconnect Switch
Molded Case
UL Approved
Spec E and F**



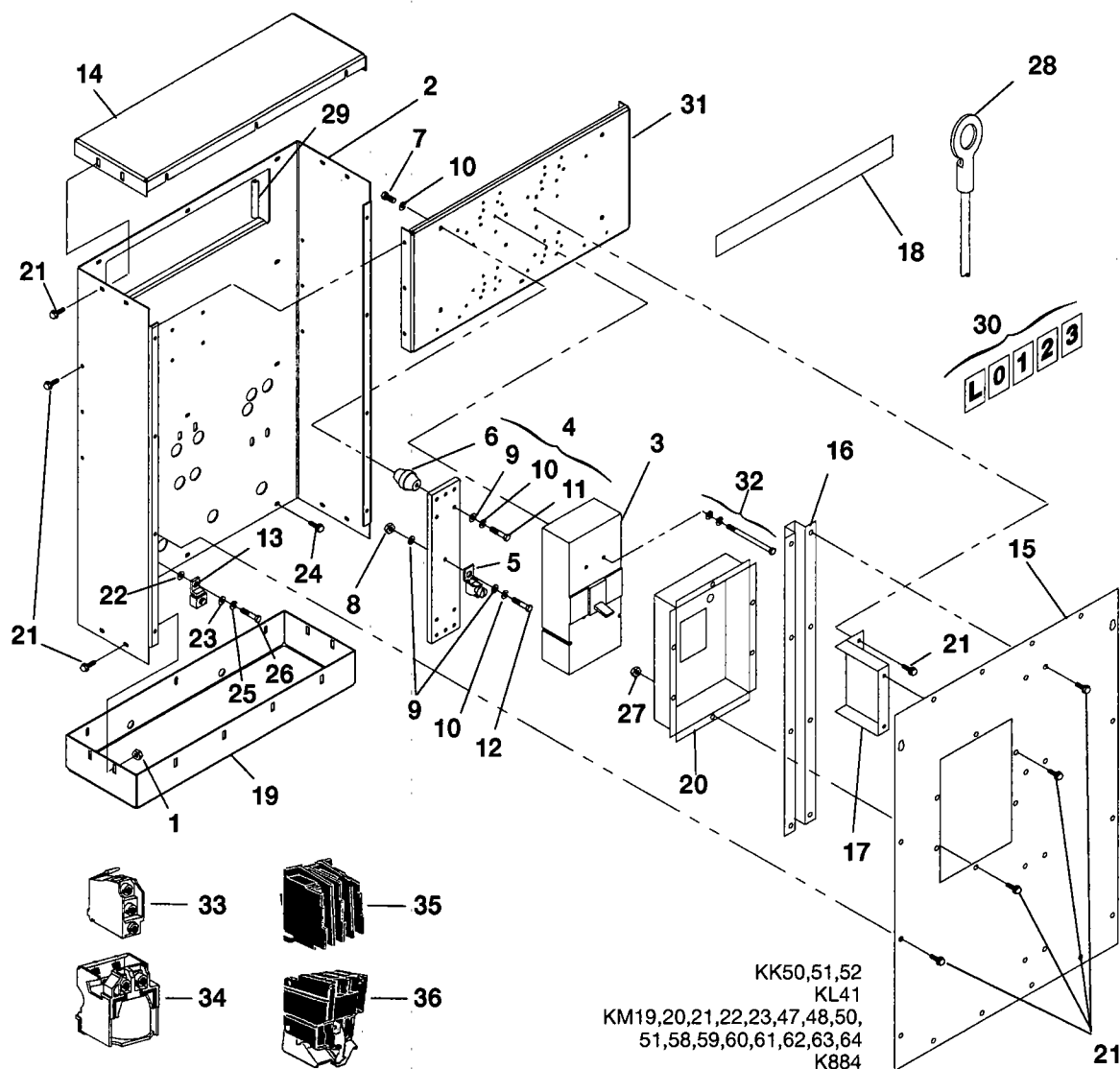
KK50,51,52,53

**Disconnect Switch
Molded Case
UL Approved
Spec E and F**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2432	1	Box, Disconnect Switch	19			Washer, Flat
2			Switch, Disconnect - 3 Pole (Includes Line and Load Lugs) (CB21)	526-0108	4		1/4" - 400 and 600 Amp Switches
	320-1906-17	1	400 Amp	526-0115	4		5/16" - 800 and 1000 Amp Switches
	320-1906-18	1	600 Amp	20			Washer, Lock - Spring
	320-1906-19	1	800 Amp	850-0040	4		1/4" - 400 and 600 Amp Switches
	320-1906-20	1	1000 Amp	850-0045	4		5/16" - 800 and 1000 Amp Switches
3	319-1917	1	Cover	21	870-0494	16	Nut, Self-Retaining (1/4-20)
4			Lead, Disconnect Switch (Quantity Used As Required) 39" (Without Markings) (#1/0 Wire)	22	332-2001	1	Lug, Solderless
	226-4406-03	1	1/2" Ring Terminal End to 1" Stripped End	23	319-1918	1	Brace, Cover
	226-4406-04	1	1/2" Ring Terminal End to 1/2" Ring Terminal End	24	319-2431-13	1	Cup, Disconnect Switch Opening Recessed 4-7/8"
5	821-0010	40	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")	319-2431-14	1		Opening Recessed 3-1/2"
6	300-4318	1	Bar Assembly, Neutral (Includes Parts Marked *)	25	870-0212	6	Nut, Locking (1/4-20)
7	332-2001	3	*Lug, Solderless	26	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to disconnect switches) (Quantity Used As Required)
8	332-2744-07	2	*Standoff, Insulator	27	319-1915	2	Panel
9	800-0048	2	*Screw, Cap - Hex Head (3/8-16 x 3/4")	28	508-1092	-	Edging - Bulk (Order By The Foot - 3 Feet Required)
10	862-0003	3	*Nut, Hex (3/8")	29	319-1927	1	Brace, Cover
11	526-0029	8	*Washer, Flat (3/8")	30	098-5854-06	3	Label, Marker (10 Characters Per Card) Marked "L"
12	850-0050	7	*Washer, Lock - Spring (3/8")	31	098-5854-07	1	Label, Marker (10 Characters Per Card) Marked "1"
13	800-0051	2	*Screw, Cap - Hex Head (3/8-16 x 1-1/4")	32	098-5854-08	1	Label, Marker (10 Characters Per Card) Marked "2"
14	800-0052	3	*Screw, Cap - Hex Head (3/8-16 x 1-1/2")	33	098-5854-09	1	Label, Marker (10 Characters Per Card) Marked "3"
15	800-0050	1	Screw, Cap - Hex Head (3/8-16 x 1")	34	821-0018	5	Screw, Self-Locking - Hex Washer Head (1/4-20 x 5/8")
16	850-0050	1	Washer, Lock - Spring (3/8")	35	856-0010	1	Washer, Lock - EIT (3/8")
17	526-0029	1	Washer, Flat (3/8")				
18			Screw				
	812-0157	4	Machine - Round Head (1/4-20 x 1-3/4") 400 and 600 Amp Switches				
	800-0031	4	Cap - Hex Head (5/16-18 x 1-1/2") 800 and 1000 Amp Switches				

* - Parts Included In 300-4318 Neutral Bar Assembly

Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
Begin Spec G



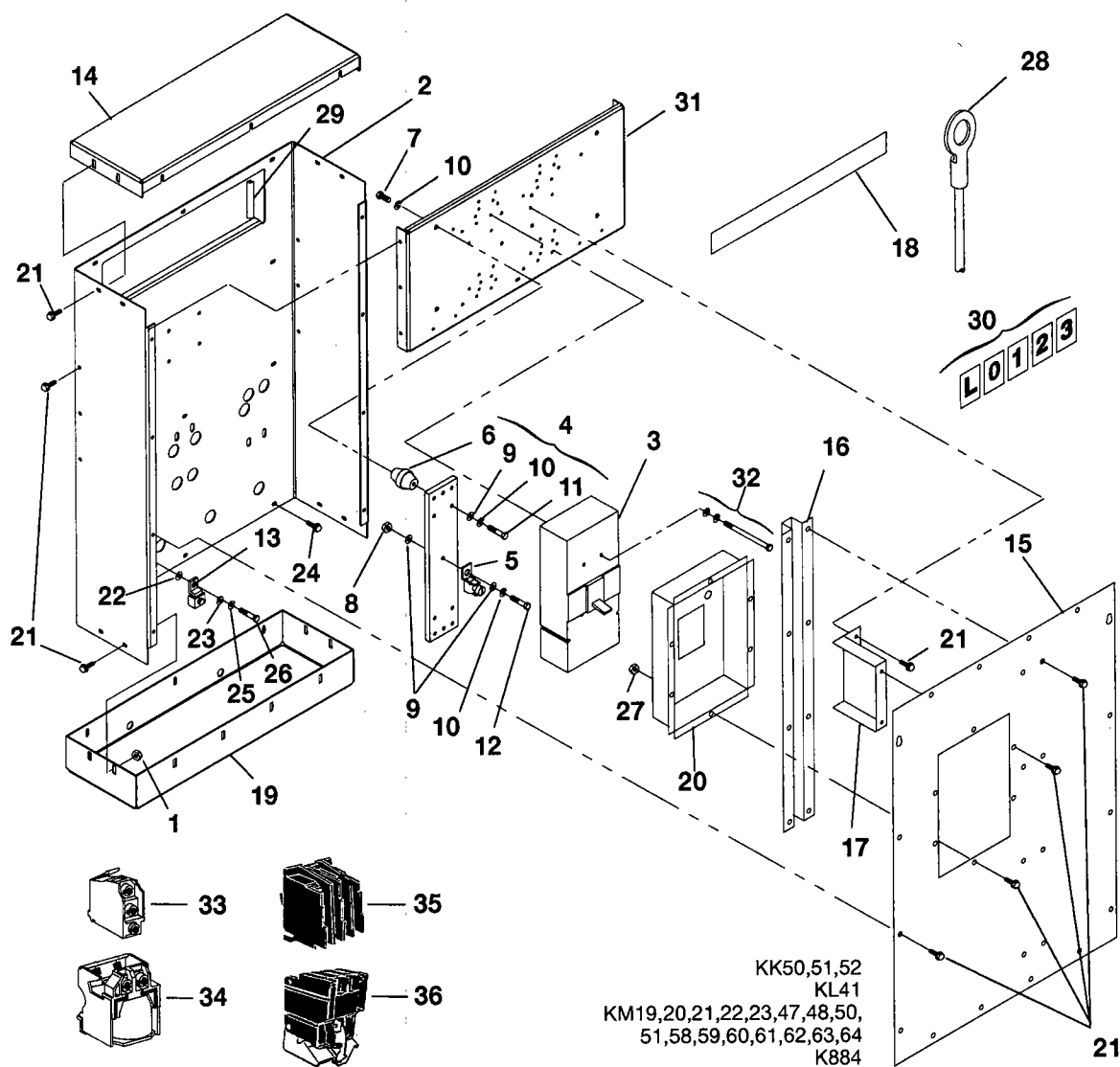
Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
Begin Spec G

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0504	16	Nut, Self-Retaining (M6)	18	091-0002	1	Strip, Copper (Used for
2	319-3169	1	Box				wrapping end of leads before
3			The following listed Circuit Breakers and Disconnect Switches include lugs and mounting hardware.				securing to circuit breakers and disconnect switches)
			Circuit Breakers	19	319-3183	1	(Quantity Used As Required)
			3 Pole (UL, IEC)	20			Panel - Bottom
	320-1963-05	1	350 Amp		319-2431-26	1	Cup
	320-1963-04	1	400 Amp		319-2431-30	1	2-7/8" x 4" Opening
	320-1963-03	1	450 Amp		319-2431-31	1	3-5/16" x 4-3/8" Opening
	320-1963-02	1	500 Amp	21	821-6002-03	53	2-1/2" x 4-9/16" Opening
	320-1963-01	1	600 Amp				Screw, Self-Locking - Hex
	320-1964-05	1	700 Amp	22	856-0010	1	Washer Head (M6 x 16mm)
	320-1964-04	1	800 Amp	23	526-2120	1	Washer, Lock - EIT (3/8")
	320-1964-02	1	1000 Amp	24	821-2035	2	Washer, Flat (M10)
	320-1964-01	1	1200 Amp				Screw, Self-Locking - Hex
			4 Pole (IEC)	25	850-2010	1	Washer Head (M6 x 25mm)
	320-1960-10	1	320 Amp	26	800-2086	1	Washer, Lock - Spring (M10)
	320-1960-09	1	400 Amp				Screw, Cap - Hex Head
	320-1960-08	1	500 Amp	27	870-2054	4	(M10 x 25mm)
	320-1960-07	1	630 Amp	28			Nut, Hex - Flange (M6)
	320-1964-08	1	800 Amp				Lead (Quantity Used As
	320-1964-07	1	1000 Amp				Required) 39" (Without
	320-1964-06	1	1250 Amp		226-4406-03	1	Markings) (#1/0 Wire)
			Disconnect Switches				1/2" Ring Terminal End to 1"
			3 Pole (UL, IEC)		226-4406-04	1	Stripped End
	320-1991-02	1	400 Amp				1/2" Ring Terminal End
	320-1991-01	1	600 Amp	29	508-1092	-	Edging - Bulk (Order By The
	320-1992-02	1	800 Amp				Foot - 3 Feet Required)
4	300-4318	1	Bar Assembly, Neutral - Used on 3 Pole Circuit Breakers and Disconnect Switches (Includes Parts Marked *)	30			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
5	332-2001	3	*Lug, Solderless		098-5854-06	1	Marked "L"
6	332-2744-07	2	*Standoff, Insulator		098-5854-07	1	Marked "1"
7	800-0048	2	*Screw, Cap - Hex Head (3/8-16 x 3/4")		098-5854-08	1	Marked "2"
8	862-0003	3	*Nut, Hex (3/8")		098-5854-09	1	Marked "3"
9	526-0029	8	*Washer, Flat (3/8")		098-5854-10	1	Marked "0"
10	850-0050	7	*Washer, Lock - Spring (3/8")	31	319-3329	1	Bracket, Mounting
11	800-0051	2	*Screw, Cap - Hex Head (3/8-16 x 1-1/4")				
12	800-0052	3	*Screw, Cap - Hex Head (3/8-16 x 1-1/2")				
13	332-2001	1	Lug, Solderless				
14	319-1915	1	Panel - Top				
15			Cover				
	319-1917	1	All Except 4 Pole Switches Mounted on the Right Side When Facing Control				
	319-2463	1	4 Pole Switches Mounted on the Right Side When Facing Control				
16	319-3284	1	Brace, Cover				
17	319-3333	1	Brace, Cover				

* - Parts Included In 300-4318 Neutral Bar Assembly

Continued...

Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
Begin Spec G

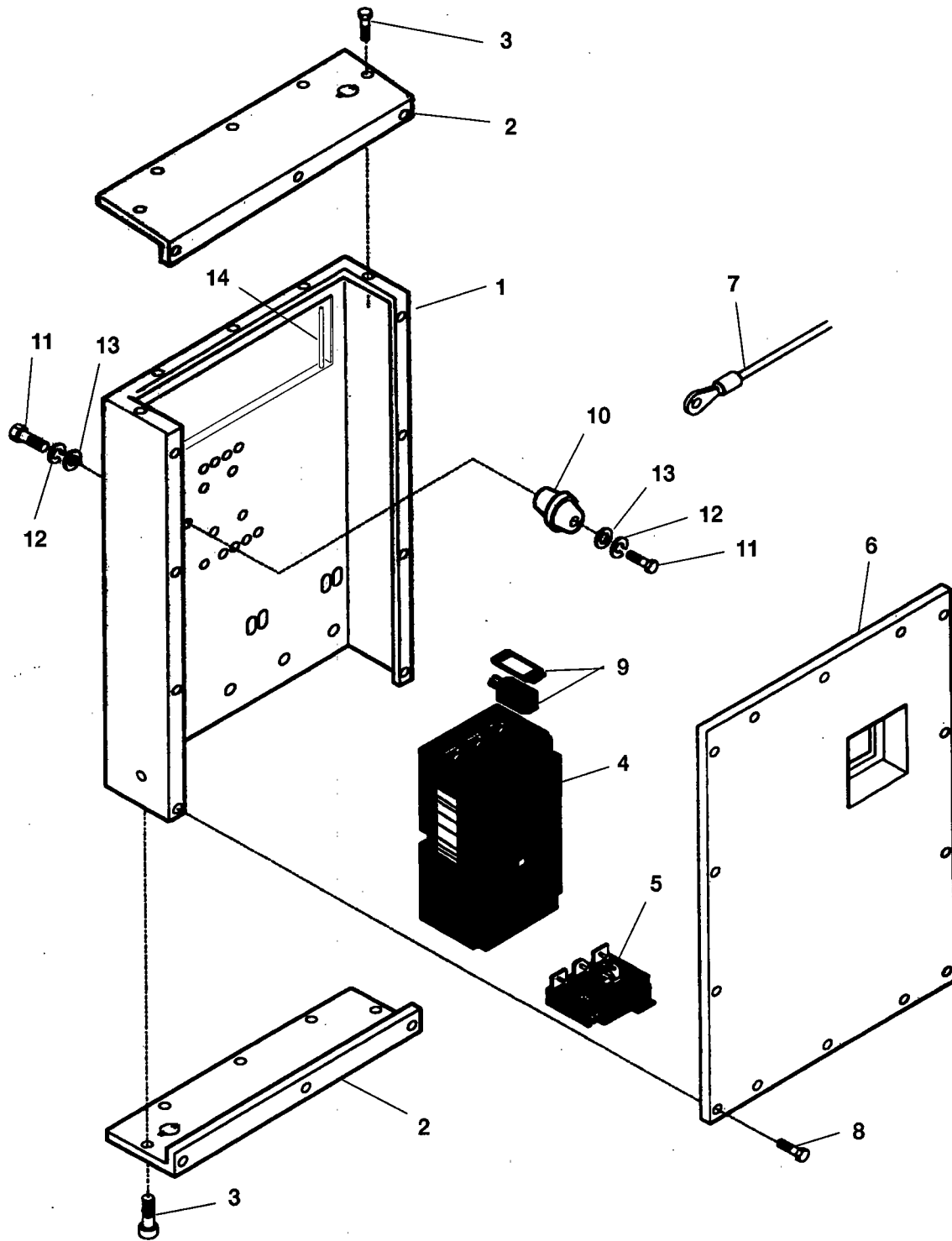


Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
Begin Spec G

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				Accessories, Circuit Breaker: The following are used on 320-1960-XX Circuit Breakers Switch – Used as a Trip Alarm or Auxiliary Contact 24 Volt Shunt Trip Accessories, Circuit Breaker: The following are used on 320-1963-XX and 320-1964-XX Circuit Breakers Switches – Includes 1 Trip Alarm and 1 Auxiliary Contact 24 Volt Shunt Trip			
32			Package, Hardware – Mounting (Includes Screws, Nuts and Lock Washers – 1 Package Required Per Switch)	33	320-1981-01	1	
	320-1986-07	1	Used With 320-1960-XX Circuit Breakers	34	320-1981-03	1	
	320-1986-02	1	Used With 320-1963-XX Circuit Breakers and 320-1991-XX Disconnect Switches	35	320-1977-01	1	
	320-1986-01	1	Used With 320-1964-XX Circuit Breakers and 320-1992-02 Disconnect Switch	36	320-1977-03	1	

* – Parts Included In 300-4318 Neutral Bar Assembly

**Circuit Breaker
Non-UL Approved
Spec A and B**

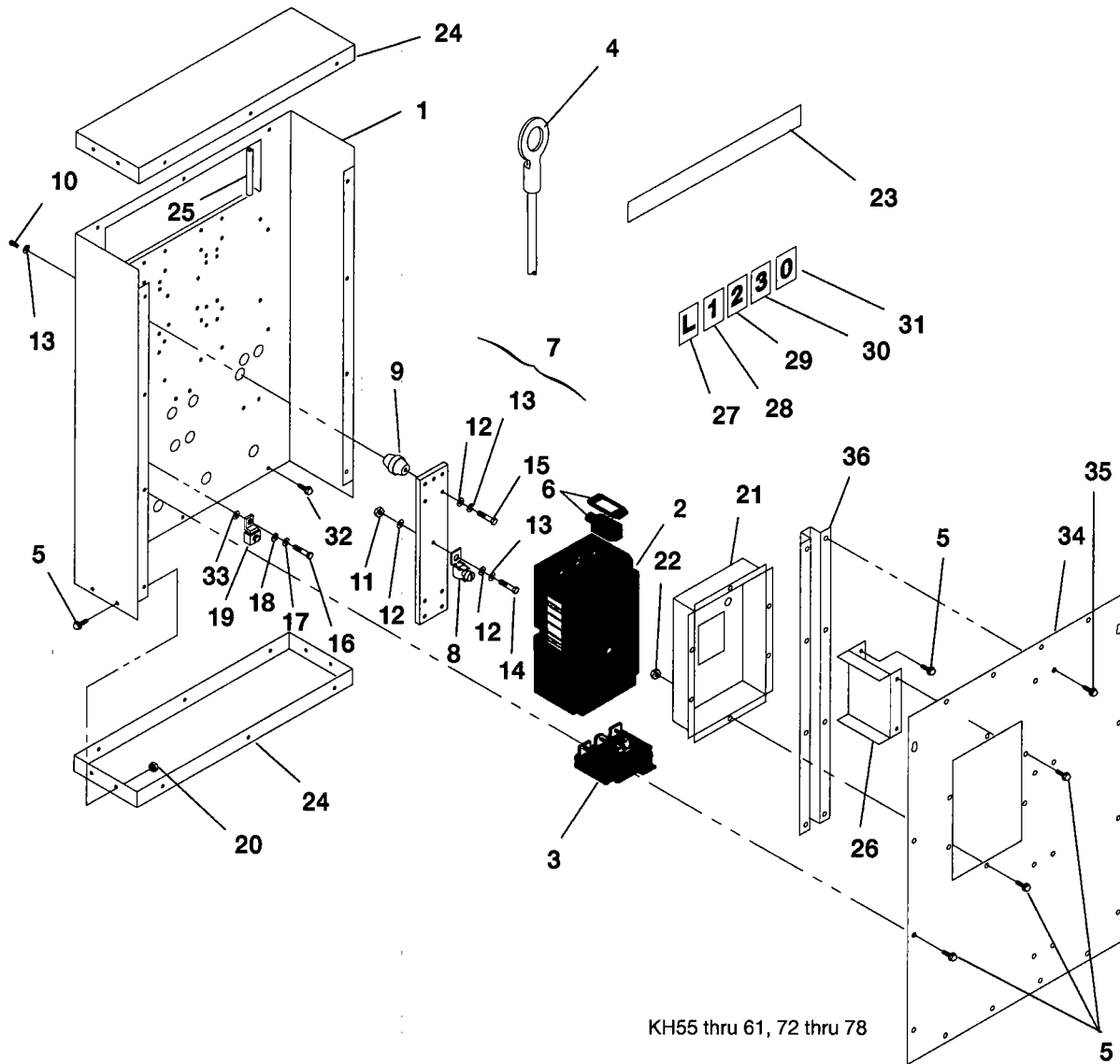


**Circuit Breaker
Non-UL Approved
Spec A and B**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1354	1	Box, Circuit Breaker	7			Lead - Circuit Breaker (Quantity Used As Required) (#1/0 Wire)
2	319-1355	2	Panel				30" Long Leads
3	821-0010	10	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")	226-3505-02	1		Marked "LO"
4			Frame - Circuit Breaker (Includes Mounting Hardware)	226-0893	1		Without Markings
			Three Pole Breakers	226-4406-01	1		39" Long Leads
	320-1751-01	1	Frame Size D400 (For 320 and 400 Amp Trips)				1/2" Ring Terminal End to 3/8" Ring Terminal End - Marked "LO"
	320-1751-13	1	Frame Size D630 (For 500 and 630 Amp Trips)	226-4406-02	1		1/2" Ring Terminal End to 1" Stripped End - Marked "LO"
	320-1751-25	1	Frame Size D800 (For 800 Amp Trips)	226-4406-03	1		1/2" Ring Terminal End to 1" Stripped End - Without Markings
	320-1751-33	1	Frame Size D1250 (For 1000 and 1250 Amp Trips)	226-4406-04	1		1/2" Ring Terminal End to 1/2" Ring Terminal End - Without Markings
			Four Pole Breakers	8	821-0010	14	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")
	320-1751-07	1	Frame Size D400 (For 320 and 400 Amp Trips)	9			Lug Set - Circuit Breaker (Packaged In Sets - Two Lugs Per Set) (Quantity Used As Required)
	320-1751-19	1	Frame Size D630 (For 500 and 630 Amp Trips)				Circuit Breaker Frame Size D400
	320-1751-29	1	Frame Size D800 (For 800 Amp Trips)				Circuit Breaker Frame Size D630
	320-1751-39	1	Frame Size D1250 (For 1000 and 1250 Amp Trips)				Circuit Breaker Frame Size D800
5			Trip - Circuit Breakers (CB21)				Circuit Breaker Frame Size D1250
			Three Pole Breakers	320-1755-03	1		*Standoff, Insulator
	320-1751-05	1	320 Amp	320-1755-04	1		*Screw, Cap - Hex Head (3/8-16 x 1")
	320-1751-06	1	400 Amp	320-1755-06	1		*Washer, Lock - Spring (3/8")
	320-1751-17	1	500 Amp				*Washer, Flat (3/8")
	320-1751-18	1	630 Amp	320-1755-05	1		Edging - Bulk (Order By The Foot - 3 Feet Required)
	320-1751-28	1	800 Amp	10	332-2744-07	1	
	320-1751-37	1	1000 Amp	11	800-0050	2	
	320-1751-38	1	1250 Amp	12	850-0050	2	
			Four Pole Breakers	13	526-0029	2	
	320-1751-11	1	320 Amp	14	508-0239	-	
	320-1751-12	1	400 Amp				
	320-1751-23	1	500 Amp				
	320-1751-24	1	630 Amp				
	320-1751-32	1	800 Amp				
	320-1751-43	1	1000 Amp				
	320-1751-44	1	1250 Amp				
6			Cover				
	319-1374	1	Circuit Breaker Frame Size D400				
	319-1373	1	Circuit Breaker Frame Size D630 and D800				
			Circuit Breaker Frame Size D1250 With 3-3/4" x 4" Opening				
	319-1356	1	Flush Opening (Not Recessed)				
	319-1402	1	Opening Recessed 15/16"				

* - Parts Used On Three Pole Circuit Breakers

**Circuit Breaker
Non-UL Approved
Begin Spec C**



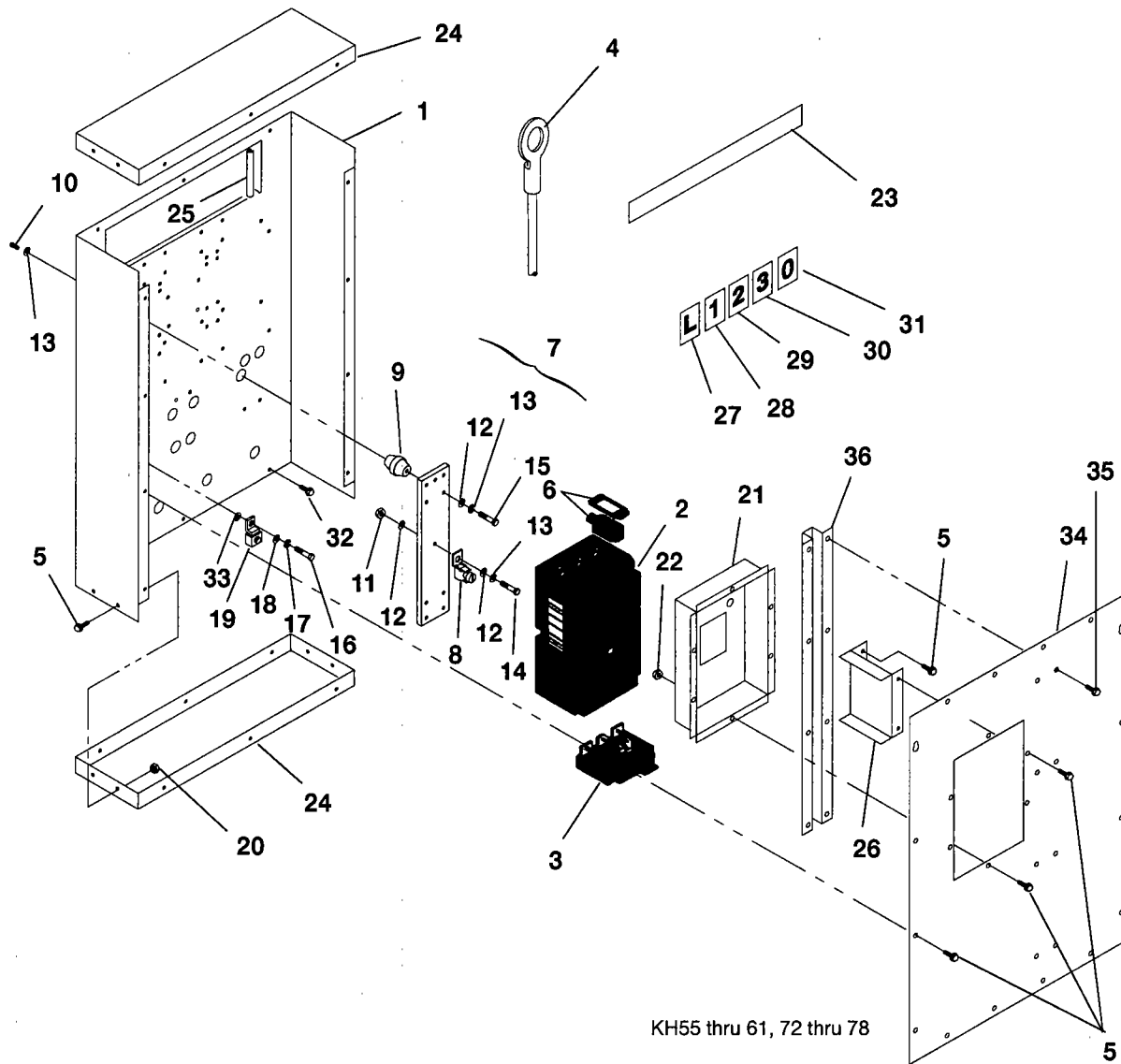
**Circuit Breaker
Non-UL Approved
Begin Spec C**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Box, Circuit Breaker	6			Lug Set – Circuit Breaker
	319-2433	1	3 Pole Circuit Breakers				(Packaged In Sets – Two Lugs
	319-2464	1	4 Pole Circuit Breakers				Per Set) (Quantity Used As
2			Frame – Circuit Breaker				Required)
			(Includes Mounting Hardware)	320-1755-03	1		Circuit Breaker Frame Size
			Three Pole Breakers				D400
	320-1751-01	1	Frame Size D400 (For 320	320-1755-04	1		Circuit Breaker Frame Size
			and 400 Amp Trips)				D630
	320-1751-13	1	Frame Size D630 (For 500	320-1755-06	1		Circuit Breaker Frame Size
			and 630 Amp Trips)				D800
	320-1751-25	1	Frame Size D800 (For 800	320-1755-05	1		Circuit Breaker Frame Size
			Amp Trips)				D1250
	320-1751-33	1	Frame Size D1250 (For	7	300-4318	1	Bar Assembly, Neutral (Includes
			1000 and 1250 Amp Trips)				Parts Marked *)
			Four Pole Breakers	8	332-2001	3	*Lug, Solderless
	320-1751-07	1	Frame Size D400 (For 320	9	332-2744-07	2	*Standoff, Insulator
			and 400 Amp Trips)	10	800-0048	2	*Screw, Cap – Hex Head
	320-1751-19	1	Frame Size D630 (For 500				(3/8-16 x 3/4")
			and 630 Amp Trips)	11	862-0003	3	*Nut, Hex (3/8")
	320-1751-29	1	Frame Size D800 (For 800	12	526-0029	8	*Washer, Flat (3/8")
			Amp Trips)	13	850-0050	7	*Washer, Lock – Spring (3/8")
	320-1751-39	1	Frame Size D1250 (For	14	800-0051	2	*Screw, Cap – Hex Head
			1000 and 1250 Amp Trips)				(3/8-16 x 1-1/4")
3			Trip – Circuit Breakers (CB21)	15	800-0052	3	*Screw, Cap – Hex Head
			Three Pole Breakers				(3/8-16 x 1-1/2")
	320-1751-05	1	320 Amp	16	800-0050	1	Screw, Cap – Hex Head
	320-1751-06	1	400 Amp				(3/8-16 x 1")
	320-1751-17	1	500 Amp	17	850-0050	1	Washer, Lock – Spring (3/8")
	320-1751-18	1	630 Amp	18	526-0029	1	Washer, Flat (3/8")
	320-1751-28	1	800 Amp	19	332-2001	1	Lug, Solderless
	320-1751-37	1	1000 Amp	20	870-0494	16	Nut, Self-Retaining – Floating
	320-1751-38	1	1250 Amp				(1/4-20)
			Four Pole Breakers	21			Cup, Circuit Breaker
	320-1751-11	1	320 Amp		319-2431-16	1	Opening Recessed 4-1/4"
	320-1751-12	1	400 Amp		319-2431-17	1	Opening Recessed 3"
	320-1751-23	1	500 Amp	22	870-0212	6	Nut, Locking (1/4-20)
	320-1751-24	1	630 Amp	23	091-0002	1	Strip, Copper (Used for
	320-1751-32	1	800 Amp				wrapping end of leads before
	320-1751-43	1	1000 Amp				securing to circuit breakers)
	320-1751-44	1	1250 Amp				(Quantity Used As Required)
4			Lead – Circuit Breaker (Quantity	24	319-1915	2	Panel
			Used As Required) 39"	25	508-1092	-	Edging – Bulk (Order By The
			(Without Markings) (#1/0 Wire)				Foot – 3 Feet Required)
	226-4406-03	1	1/2" Ring Terminal End to 1"	26	319-1927	1	Brace, Cover
			Stripped End				
	226-4406-04	1	1/2" Ring Terminal End to				
			1/2" Ring Terminal End				
5	821-5002-03	34	Screw, Self-Locking – Hex				
			Washer Head (1/4-20 x 1/2")				

* – Parts Included In 300-4318 Neutral Bar Assembly

Continued...

**Circuit Breaker
Non-UL Approved
Begin Spec C**



**Circuit Breaker
Non-UL Approved
Begin Spec C**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				33	856-0010	1	Washer, Lock – EIT (3/8")
				34			Cover, Circuit Breaker
					319-1917	1	Sets With 3 Pole Breaker Mounted On Left Or Right Side When Facing Control
					319-1917	1	Sets With 4 Pole Breaker Mounted On Left Side When Facing Control
					319-2463	1	Sets With 4 Pole Breaker Mounted On Right Side When Facing Control
27			Label, Marker (10 Characters Per Card) Marked "L"	35	821-0010	8	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
	098-5854-06	3	3 Pole Breakers	36	319-1918	1	Brace, Cover
	098-5854-06	4	4 Pole Breakers	* – Parts Included In 300-4318 Neutral Bar Assembly			
28	098-5854-07	1	Label, Marker (10 Characters Per Card) Marked "1"				
29	098-5854-08	1	Label, Marker (10 Characters Per Card) Marked "2"				
30	098-5854-09	1	Label, Marker (10 Characters Per Card) Marked "3"				
31	098-5854-10	1	Label, Marker (10 Characters Per Card) Marked "0" (4 Pole Breakers)				
32	821-0009	5	Screw, Self-Locking – Hex Washer Head (1/4-20 x 3/8")				

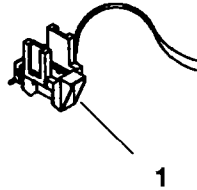
Auxiliary Contact Non-UL Approved Circuit Breakers



K888

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Contact, Auxiliary				
	320-1747-05	1	Circuit Breaker Frame Size D400, D630, D800				
	320-1747-08	1	Circuit Breaker Frame Size D1250				

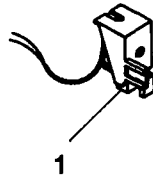
Bell Alarm Non-UL Approved Circuit Breakers



KA47

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Alarm, Bell				
	320-1748-03	1	Circuit Breaker Frame Size D400, D630, D800				
	320-1748-04	1	Circuit Breaker Frame Size D1250				

Shunt Trip Non-UL Approved Circuit Breakers



K884

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Trip, Shunt				
	320-1749-03	1	Circuit Breaker Frame Size D400, D630, D800				
	320-1749-04	1	Circuit Breaker Frame Size D1250				

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