

Parts Manual

Generator Set

DFJA (Spec E–H)

DFJB (Spec E–H)

DFJC (Spec E–H)

DFJD (Spec A)

MODEL IDENTIFICATION

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

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

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

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

DANGER

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

WARNING

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

CAUTION

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

PRODUCT SAFETY PRECAUTIONS

WARNING

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

WARNING

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

WARNING

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

WARNING

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

PSP-1

Supplement: 960-2000
Date: 4-93
Insert with-
Title: DF Series Parts Catalog
Spec Advance
Number: As Listed Below

This Supplementary Parts List Spec advances "DF" series generator sets as shown:

<u>"DF" Series Models</u>	<u>New Spec Advance Letter</u>	<u>Catalog Number</u>
DFAA, DFAB, DFAC	B	960-0260
DFBF, DFGB, DFCC	H	960-0204
DFEB, DFFB	H	960-0240
DFEC	B	960-0240
DFGA, DFGB	B	960-0259
DFJA, DFJB, DFJC	J	960-0263
DFJD	B	960-0263
DFLB, DFLC, DFLD, DFMB	J	960-0264

This "DF" series supplement covers the change to a circuit board containing twelve form C contact relays and three standard product run relays. The new board provides continuous monitoring of the generator set and the run relays can be configured for any of three functions (run, common alarm, isolated logic) with the movement of jumpers on the board.

In addition to the circuit board change, low coolant senders wired to shut down the set are now a standard feature. The low coolant leads are now incorporated into the main engine harness necessitating in the release of new engine harness part numbers.

On the following pages replacement parts are shown for each "DF" series model beginning with the Spec advance letters as shown above. Use these part numbers in place of those listed in the related "DF" series parts catalogs.

Introduction

This catalog applies to Onan Generator Models DFJA, DFJB, DFJC, DFJD, and Cummins Generator Models KTA31, KTA32, KTA33 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.

Some parts groups lists a second source for obtaining service replacement parts. A list of distributors and their addresses are located toward the rear of this catalog.

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 dealer for assistance in ordering replacement parts.

Replacement Engine

<u>Onan/Cummins Generator Model</u>	<u>Cummins Generator Model</u>	<u>Cummins Engine Model</u>
620DFJA	620KTA31	KTA38-G1
750DFJA	750KTA31	KTA38-G1
660DFJB	660KTA32	KTA38-G2
800DFJB	800KTA32	KTA38-G2
800DFJC	800KTA33	KTA38-G3
900DFJC	900KTA33	KTA38-G3
880DFJD	-	KTA38-G5
1000DFJD	-	KTA38-G4

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	
620DFJA/* 620KTA31	620,000	#	50	6	1 or 3	24VDC
750DFJA/* 750KTA31	750,000	#	60	6	1 or 3	24VDC
660DFJB/* 660KTA32	660,000	#	50	12	1 or 3	24VDC
800DFJB/* 800KTA32	800,000	#	60	12	1 or 3	24VDC
800DFJC/* 800KTA33	800,000	#	50	12	1 or 3	24VDC
900DFJC/* 900KTA33	900,000	#	60	12	1 or 3	24VDC
880DFJD/* 1000DFJD/*	880,000 1,000,000	# #	50 60	12 12	1 or 3 1 or 3	24VDC 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 a standard model. The specification letter advances (E to F, F to G, etc.) with major manufacturing changes.
- # - Broad range reconnectible.

Generator Table

ONAN/CUMMINS IDENTIFICATION NUMBER	NEWAGE FRAME NUMBER	NEWAGE MODEL NUMBER
249-0176-02	6	HC634A-312-D62-4170
249-0176-03	6	HC634B-312-D62-4170
249-0176-04	6	HC634C-312-D62-4170
249-0176-09	6	HC634D-312-D62-4171
249-0177-01	7	HC734A-----D73-4142
249-0181-03	6	HC634B-311-D62-4170
249-0181-04	6	HC634C-311-D62-4170
249-0181-09	6	HC634D-311-D62-----
249-0185-04	6	HC634C-07-D62-4170
249-0191-02	6	MV634WJ-----D67-1016
249-0191-04	6	MV634WJ-----D67-1016
249-0192-01	7	MV734WE-----D77-1026
249-0192-02	7	MV734WF-----D77-1026
249-0192-04	7	MV734WE-----D77-1026
249-0192-05	7	MV734WF-----D77-1026
249-5063-01	6	HC634G-312-D66-1032
249-5063-02	6	HC634H-312-D66-1032
249-5063-03	6	HC634J-312-D66-1032
249-5063-04	6	HC634G-312-D66-1032
249-5063-05	6	HC634H-312-D66-1032
249-5063-07	6	HC634K-312-D66-1033
249-5063-12	6	HC634K-312-D66-1033
249-5064-01	7	HC734E-312-D76-1026
249-5064-02	7	HC734F-312-D76-1026
249-5065-01	6	HC634G-311-D66-1032
249-5065-02	6	HC634H-311-D66-1032
249-5065-03	6	HC634J-311-D66-1032
249-5065-07	6	HC634K-311-D66-1033
249-5066-01	6	HC634G-07-D66-1032
249-5066-02	6	HC634H-07-D66-1032
249-5066-03	6	HC634J-07-D66-1032
249-5066-06	6	HC634J-07-D66-1032

Paint

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	-	-	13 oz. Pressurized Spray Can	525-0551-02	-	-	13 oz. Pressurized Spray Can
525-0306	-	-	Quart Can	525-0551-03	-	-	Quart Can
525-0304	-	-	Gallon Can	525-0551-04	-	-	Gallon Can



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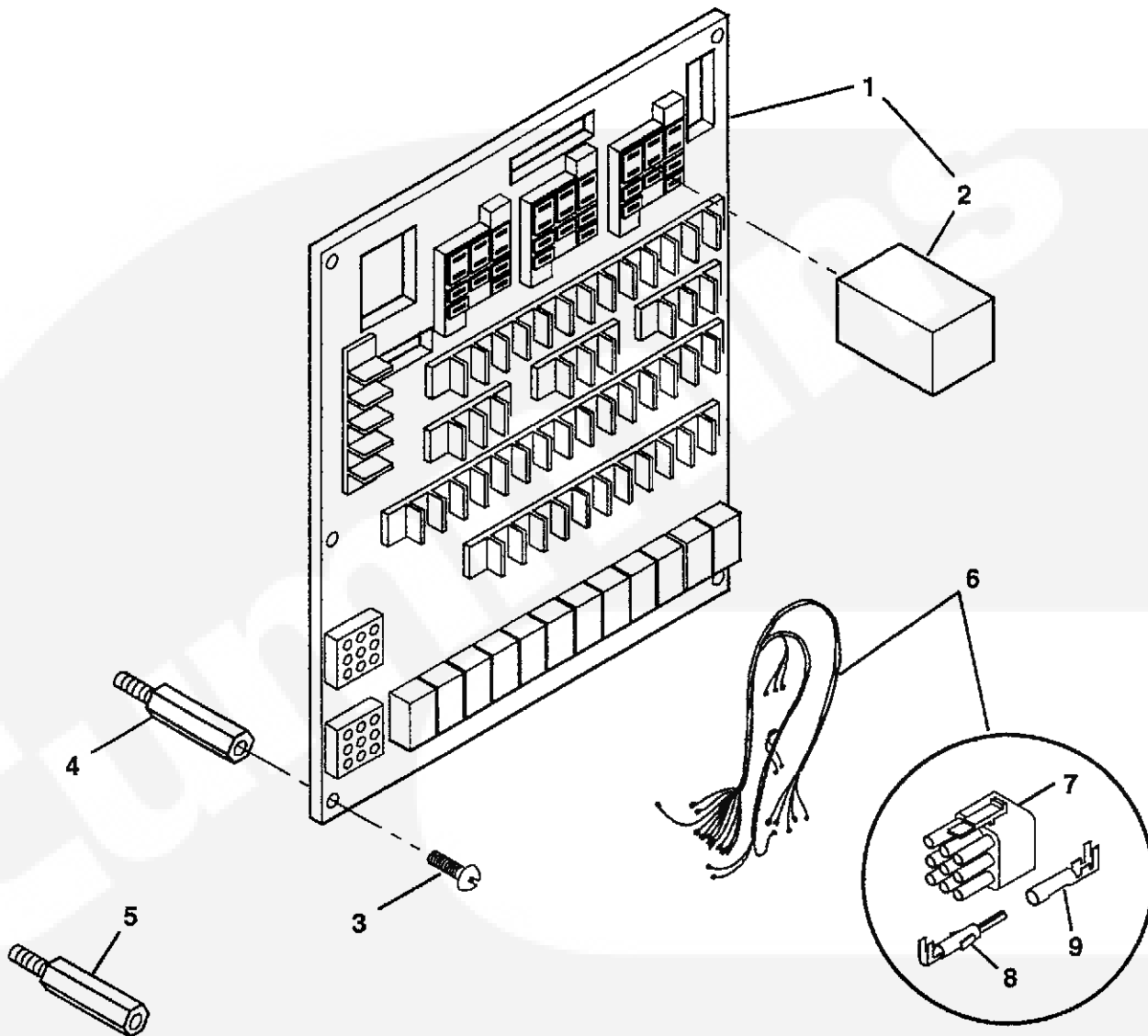
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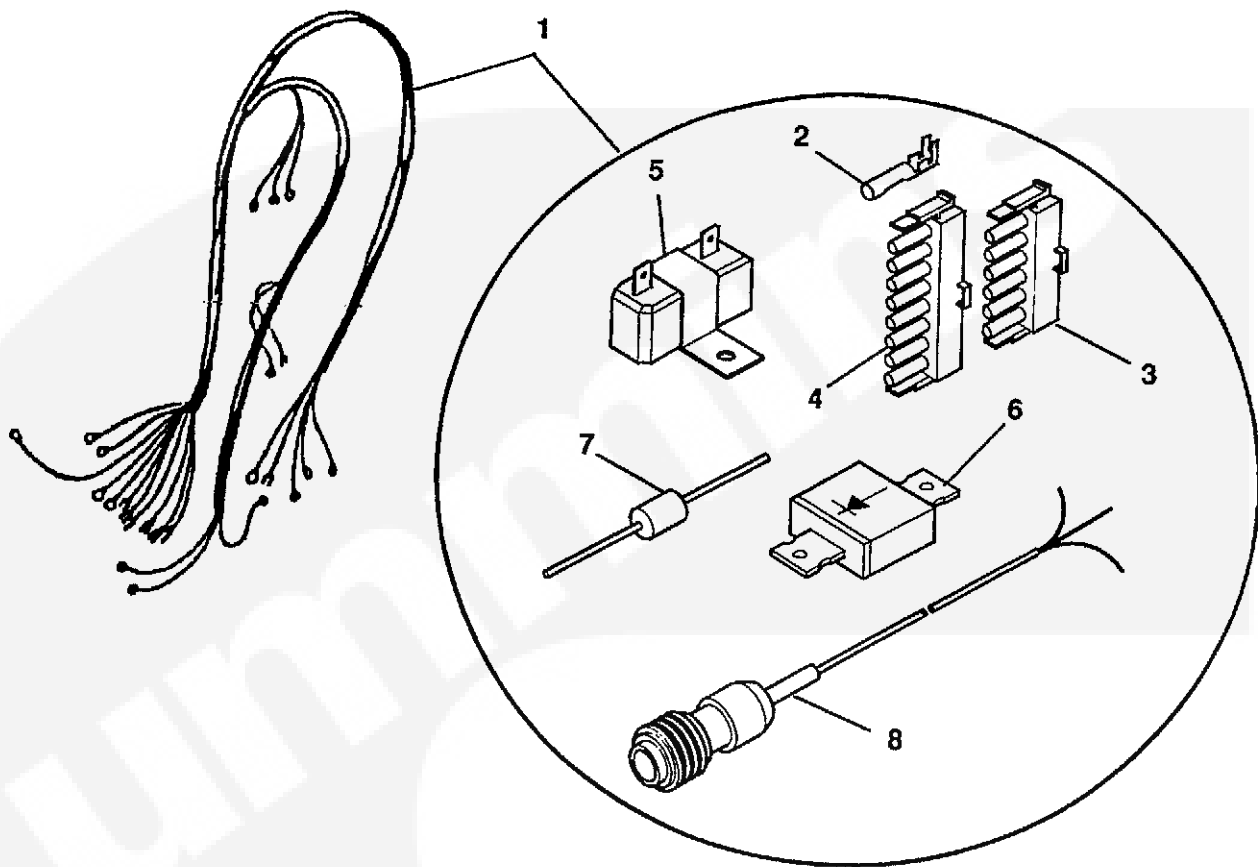
Alarm Relay Board



300-4228

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Relay - Alarm (Includes Relay)	5	870-0517-02	2	Standoff (Yellow) (2")
	300-4111-02	1	Without Form C Relays	6	338-2875	1	Harness, Wiring (Includes Parts Marked*) (A11-TB1 and TB2 to Alarm Relay Board)
	300-4111-04	1	With Form C Relays	7	323-1291	2	*Plug - 9 Place (P1,P2)
2	307-1056	1	Relay (Quantity Used as Required) (K1,K2,K3)	8	323-1199	9	*Pin, Contact
3	815-0544	6	Screw, Machine - Round Head - Cross Recessed With Internal Tooth (#6-32 x 1/2")	9	323-1200	8	*Socket, Contact
4	870-0517-01	4	Standoff (Clear) (1-7/8")				* - Parts Included in 338-2875 Wiring Harness

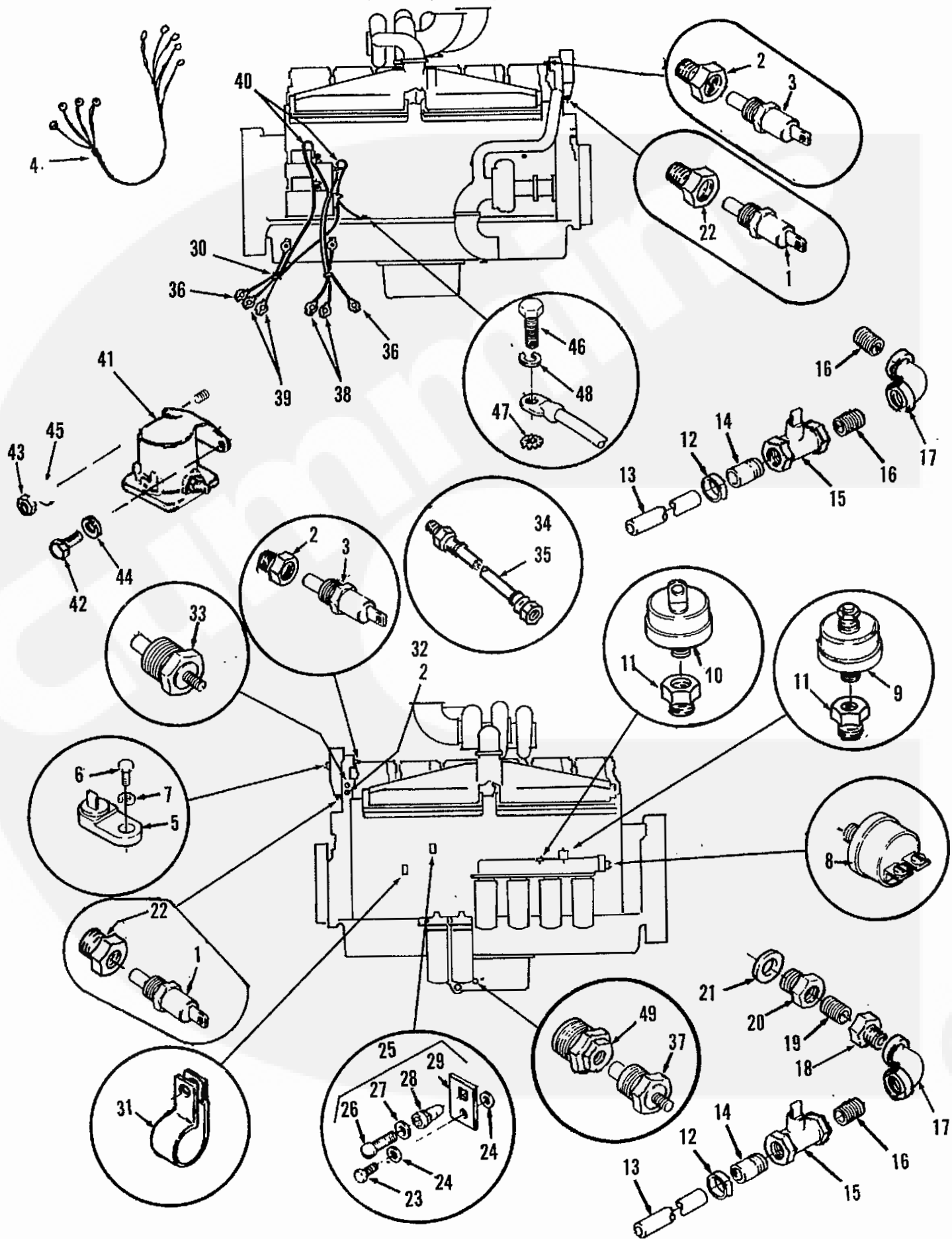
Engine Wiring Harness



338-2947

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring - Engine to Control (Includes Parts Marked *)	4	323-1306	1	*Housing, Connector - 8 Place (J1)
	338-2947	1	DFAA, DFAB, DFAC	5	353-0094-01	1	*Resistor (50 Ohm) (R1)
	338-2948	1	DFBF, DFCB, DFCC	6	357-0030	1	*Rectifier (400 V) (CR1)
	338-2984	1	DFEB, DFEC, DFFB	7	359-0051	1	*Diode (50 Watt)
	338-2994	1	DFGA, DFGB, DFGC	8	338-1765-04	1	*Cable, Magnetic Pickup (Part not included with harnesses 338-2994, 338-2996 and 338-2995)
	338-2996	1	DFJA, DFJB, DFJC, DFJD				
	338-2995	1	DFLB, DFLC, DFLD, DFMB				
2	323-1200	11	*Socket, Contact				
3	323-1304	1	*Housing, Connector - 6 Place (J2)				

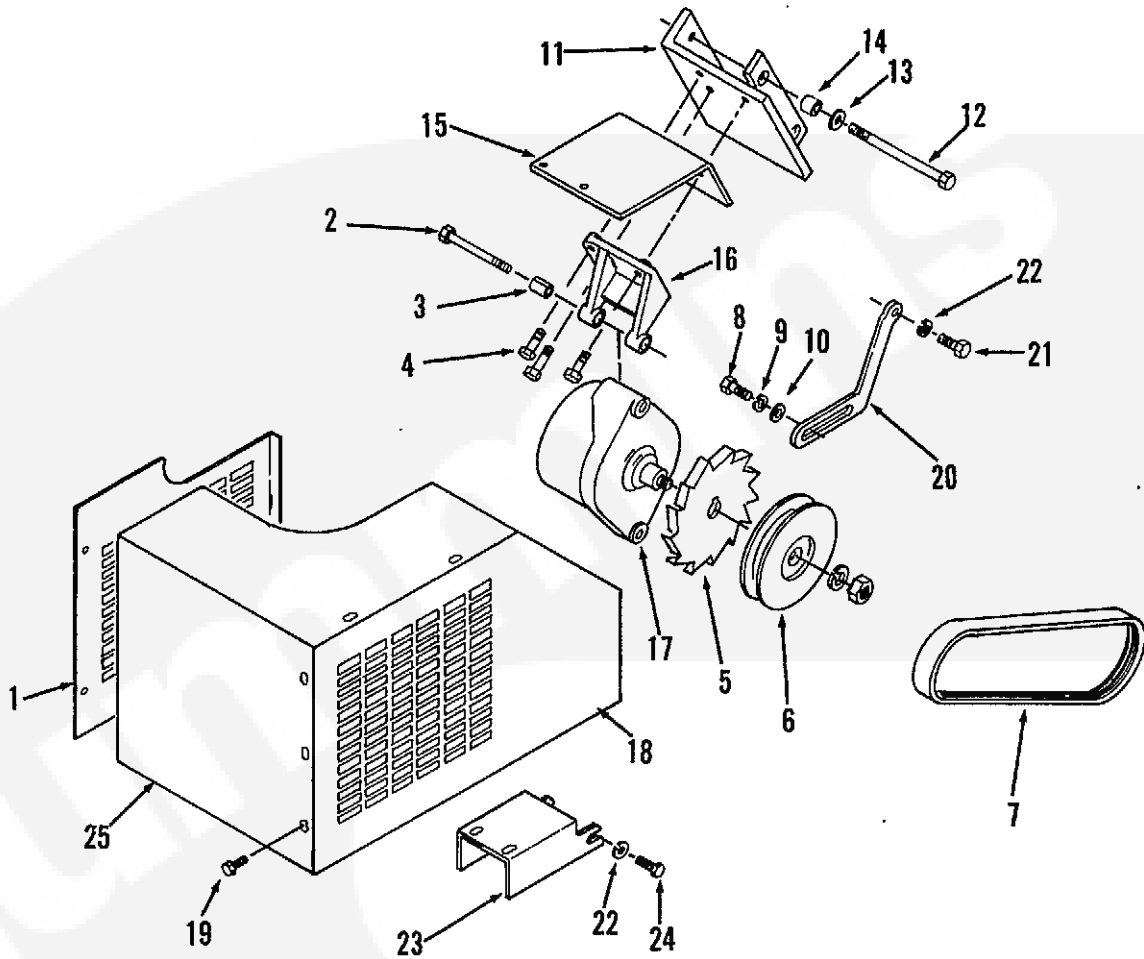
External Engine Parts
DFJA, DFJB, DFJC, DFJD



**External Engine Parts
DFJA, DFJB, DFJC, DFJD**

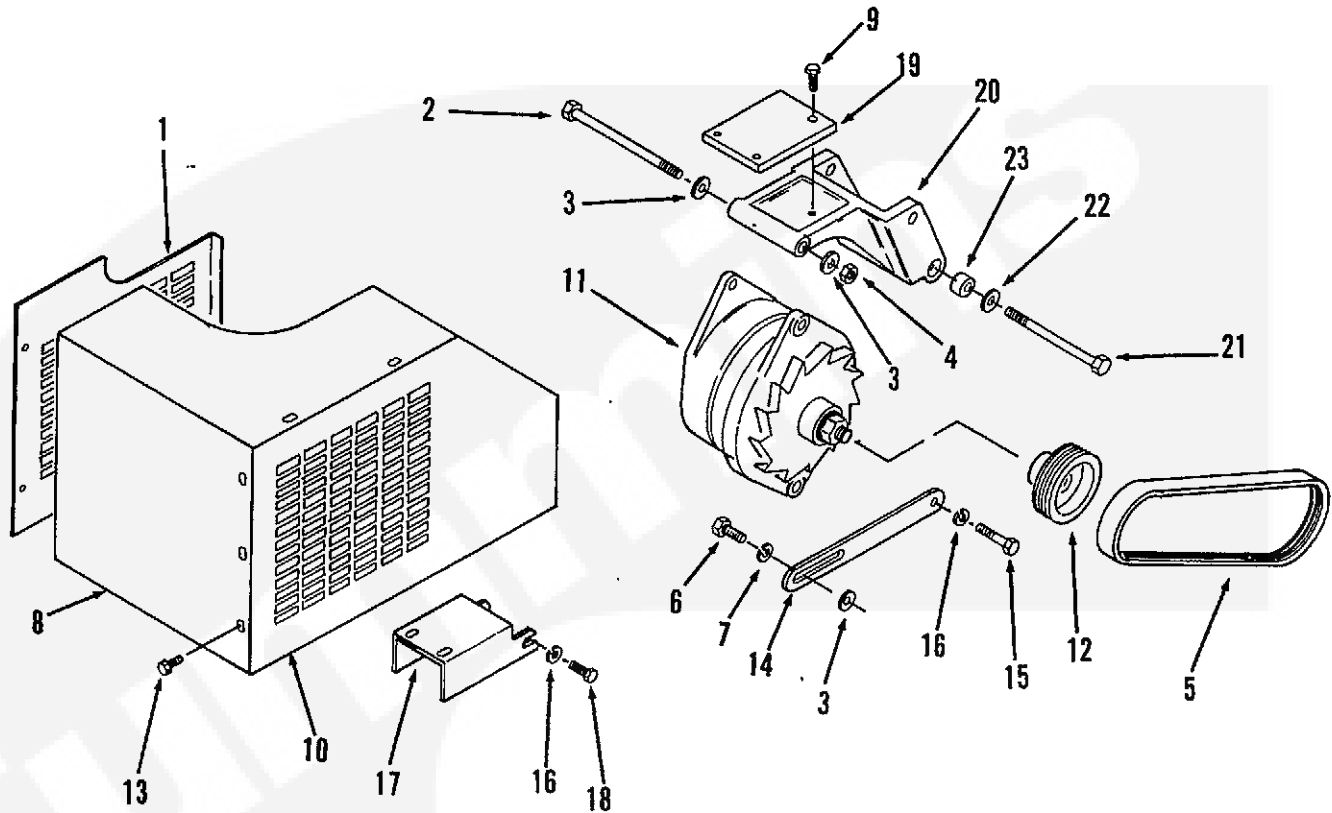
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	309-0436	2	Switch, Thermostatic - High Water Temperature (PRE-ALARM) (216°F)	22	505-0131	2	Bushing, Reducer (3/4 x 3/8)
2	505-0019	3	Bushing, Reducer (1/2 NPT x 3/8 NPT)	23	800-0270	1	Screw, Cap - Hex Head (3/8-24 x 5/8")
3	309-0437	2	Switch, Thermostatic - High Water Temperature (SHUTDOWN) (222°F)	24	856-0010	2	Washer, Lock - EIT (3/8")
4	338-2525	1	Harness, Wiring - Engine to Control (Includes Replaceable Items)	25	332-1292	1	Terminal Assembly (Includes Replaceable Items 26 thru 29)
	323-1306	1	Housing, Connector - 8 Pin (Less Pins)	26	809-0035	1	Screw, Tapping - Round Head (#8 x 3/4")
	323-1200	8	Pin, Contact	27	508-0015	1	Washer, Insulating
	323-1304	1	Housing, Connector - 6 Pin	28	870-0196	1	Nut, Insulated
	323-1200	6	Pin, Contact	29	332-1281	1	Board, Terminal
5	309-0269	1	Switch, Thermostatic - Low Engine Temperature	30	332-0941	4	Cable, Tie
6	800-0062	1	Screw, Cap - Hex Head (3/8-16 x 4")	31	332-2634	6	Clamp, J
7	850-0050	1	Washer, Lock - Spring (3/8")	32	504-0028	1	Cock, Drain
8	309-0561	1	Switch, Pressure - Oil, 14# PSI (SHUTDOWN) With Dual Terminals	33	193-0375	1	Sender, Water Temperature
9	193-0244	1	Sender, Pressure - Oil	34	501-0520	1	Line, Fuel - Flexible "FUEL OUT" (37° 7/8-14 Female Swivel x 3/4-14 Male x 50" LG)
10	309-0272	1	Switch, Pressure - Oil, 20# PSI (PRE-ALARM)	35	501-0524	1	Line, Fuel - Flexible "FUEL IN" (37° 1 5/16-12 Female Swivel x 1-11.5 Male x 50" LG)
11	505-0007	2	Bushing, Reducer (1/4 NPT x 1/8 NPT)	36	416-0446	2	Cable, Battery - Jumper (12-1/2" LG)
12	503-0189	2	Clamp, Hose	37	193-0353	1	Sender, Oil Temperature
13	503-1731	AR	Hose, Bulk (Sold by the Foot) Three Feet Required	38	416-0964	2	Cable, Battery (35" LG)
14	505-0324	2	Nipple, Pipe - Half (3/4 NPT x 2" LG)	39	416-0639	2	Cable, Battery (60" LG)
15	504-0171	2	Valve, Shutoff - Brass (3/4 NPT)	40	416-0680	3	Cable, Electrical - Jumper (10" LG)
16	505-0102	3	Nipple, Pipe - Close (3/4 NPT x 1-3/8" LG)	41	307-2167	1	Relay, Solenoid - Start
17	505-0132	2	Nipple, Pipe - 90° (3/4 NPT)	42	821-0010	2	Screw, Locking - Hex Washer Head (1/4-20 x 1/2")
18	505-0021	1	Bushing, Reducer (3/4 NPT x 1/2 NPT)	43	862-0013	1	Nut, Hex (1/4-20)
19	505-0100	1	Nipple, Pipe - Close	44	856-0006	2	Washer, Lock - EIT (1/4")
20	102-1335	1	Plug, Drain (Modified)	45	526-0066	1	Washer, Flat (3/8")
21	508-0292	1	Washer, Sealing	46	800-0090	1	Screw, Cap - Hex Head (1/2-13 x 1.00)
				47	856-0013	1	Washer, Lock - EIT (1/2)
				48	850-0060	1	Washer, Lock (1/2)
				49	505-0151	1	Bushing, Reducer (1/2" x 1/8")

**Alternator
45 AMP
Spec. "F" to "G" - K38 and K50 Gensets**



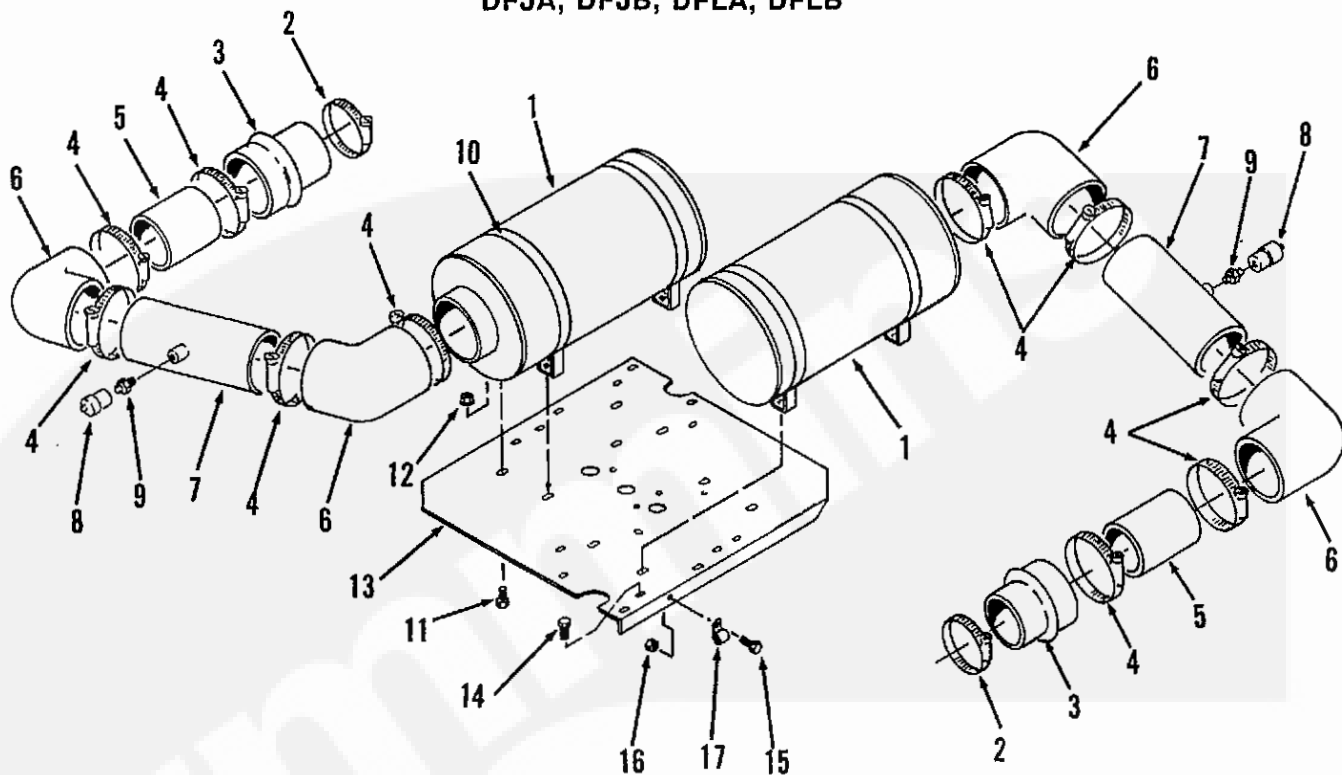
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130-3870	1	Guard	15	191-2017	1	Bracket
2	718-1067	1	Screw, Cap Hex Head (M10 x 1.5 x 90)	16	191-1990	1	Support
3	191-1989-07	1	Spacer	17	191-1983-02	1	Alternator (45 Amp)
4	821-0022	3	Screw, Hex Head - Locking (5/16-20 x 1.25)	18	130-3868	1	Guard
5	191-1981	1	Fan	19	821-0018	21	Screw, Hex Head, Locking (1/4-20 x .62)
6	191-1984	1	Pulley	20	191-2110	1	Bracket
7	511-0119	1	Belt, Vee	21	800-0071	1	Screw, Hex Head - Locking (7/16-14-1)
8	800-2058	1	Screw, Cap Hex Head (M8 x 1.25 x 25)	22	850-0055	2	Washer, Lock (7/16")
9	850-2008	1	Washer, Lock (M8)	23			Bracket, Belt Guard
10	526-0030	1	Washer, Flat (3/8")		130-3871-01	1	DFJA, DFJB, DFJC, DFLA, DFLB, DFLC, DFLD
11	191-2021	1	Bracket, Alternator		130-3871-02	1	DFMB
12	800-0500	2	Screw, Cap Hex Head (7/16-14 x 5.50)	24	800-0069	1	Screw, Cap Hex Head (7/16-14 x .75)
13	526-0342	2	Washer, Flat (1/2")	25	130-3869	1	Guard, Belt
14	191-2023	2	Sleeve				

Alternator 75 AMP



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130-3870	1	Cover, Belt Guard	14	191-1942	1	Bracket
2	800-0237	1	Screw, Cap Hex Head (1/2-20 x 6.50)	15	800-0074	1	Screw, Cap Hex Head (7/16-14 x 1.75)
3	526-0353	3	Washer, Flat (1/2")	16	850-0055	2	Washer, Lock (7/16")
4	870-0452	1	Nut, Lock (1/2-20)	17	130-3871-01	1	Bracket, Belt Guard
5	511-0161-02	1	Belt (Poly-V 5 Rib)		130-3871-02	1	DFJA, DFJB, DFJC, DFLA, DFLB, DFLC, DFLD
6	800-0092	1	Screw, Cap Hex Head, (1/2-13 x 1.5)				DFMB
7	850-0060	1	Washer, Lock (1/2")	18	800-0069	1	Screw, Cap Hex Head (7/16-14 x .75)
8	130-3869	1	Guard	19	191-2111	1	Bracket - Alternator
9	821-0030	1	Screw, Hex Head - Locking (3/8-16 x 1)	20	191-2108	1	Support - Alternator
10	130-3868	1	Bracket	21	800-0500	2	Screw, Cap Hex Head (7/16-14 x 5.50)
11	191-1926-02	1	Alternator (75 Amp)	22	526-0342	2	Washer, Flat (1/2")
12	191-2112	1	Pulley	23	191-2023	2	Sleeve
13	821-0018	21	Screw, Hex Head - Locking (1/4-20 x .62)				

Air Cleaner
DFJA, DFJB, DFLA, DFLB

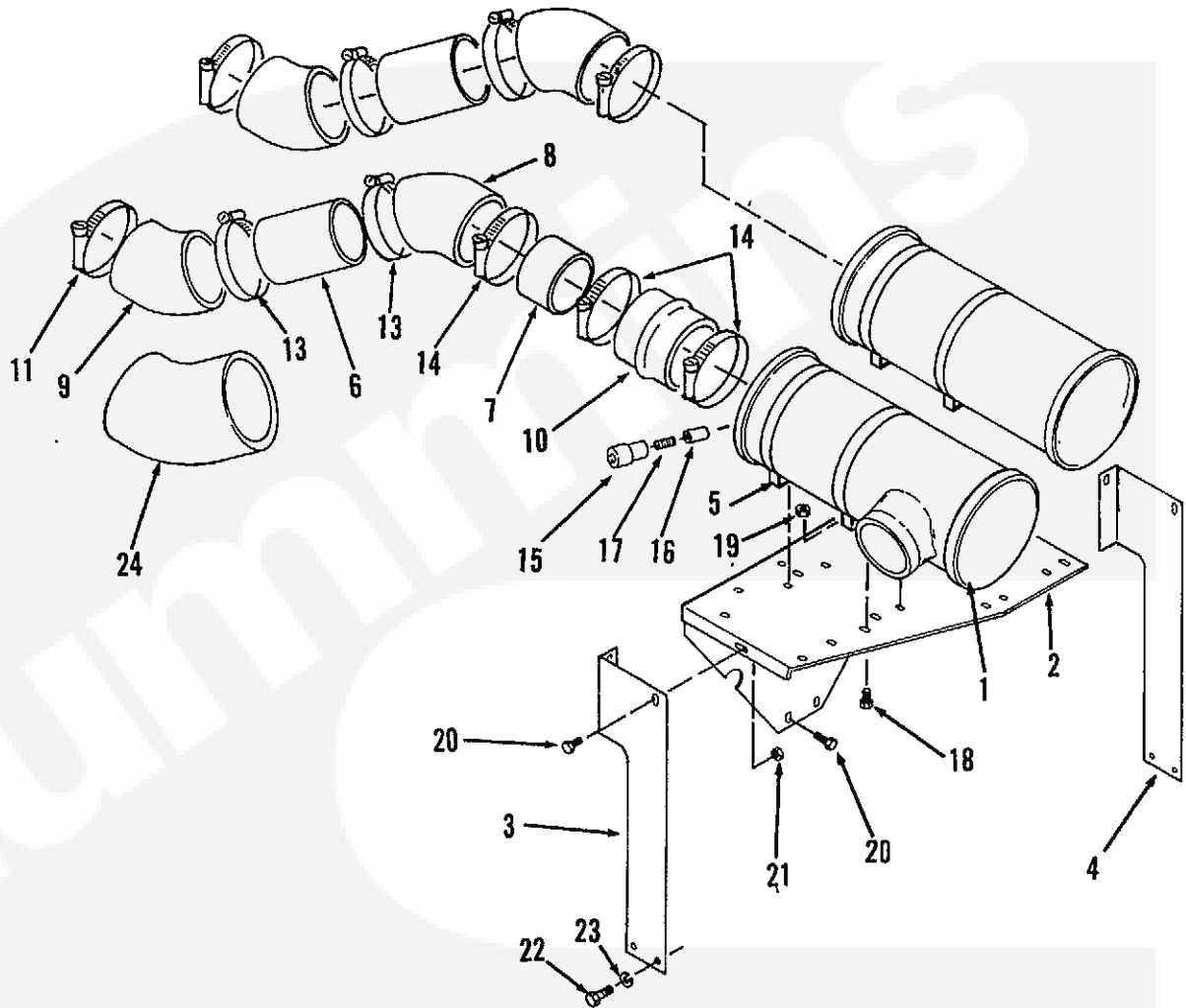


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	140-2501	2	Air Cleaner
2	503-1870-11	2	Clamp, Hose
3	503-1675	2	Hose, Reducer
4	503-1870-14	10	Clamp, Hose
5	140-2519	2	Tube, Air Inlet
6	503-0970	4	Elbow (90°)
7			Tube Assy - Air Inlet
	140-2521	2	DFLA, DFLB
	140-2509	2	DFJA, DFJB
8	140-1548	2	Indicator, Service
9	140-1260	2	Fitting - Safety Filter

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
10	140-2502	4	Band
11	821-0030	8	Screw, Locking, Hex Head (3/8-16 x 1.00)
12	870-0281	8	Nut, Locking, Hex (3/8-16)
13	140-2515	1	Bracket
14	821-0033	8	Screw, Locking Hex Head (7/16-14 x .75)
15	821-0018	2	Screw, Locking Hex Head (1/4-20 x .63)
16	870-0212	2	Nut, Locking, Hex (1/4-20)
17	332-2634	2	Clamp-J

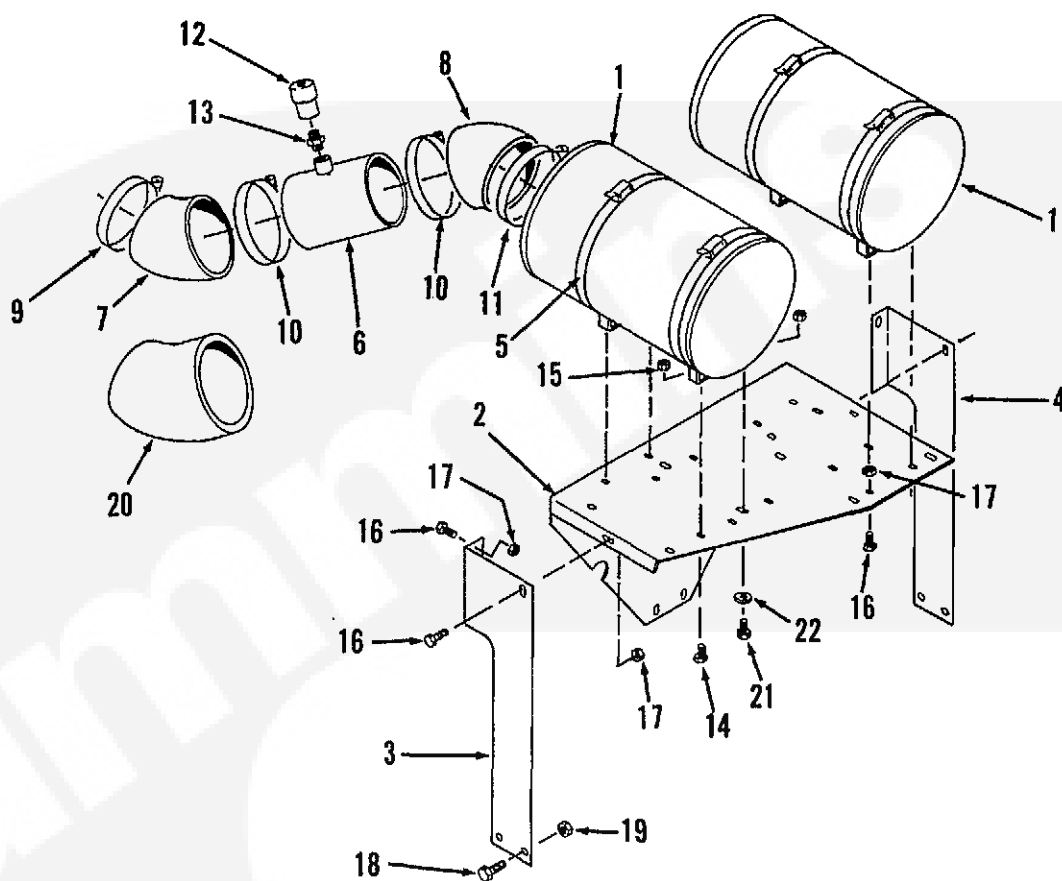
No Replaceable Element

AIR CLEANER DFJC



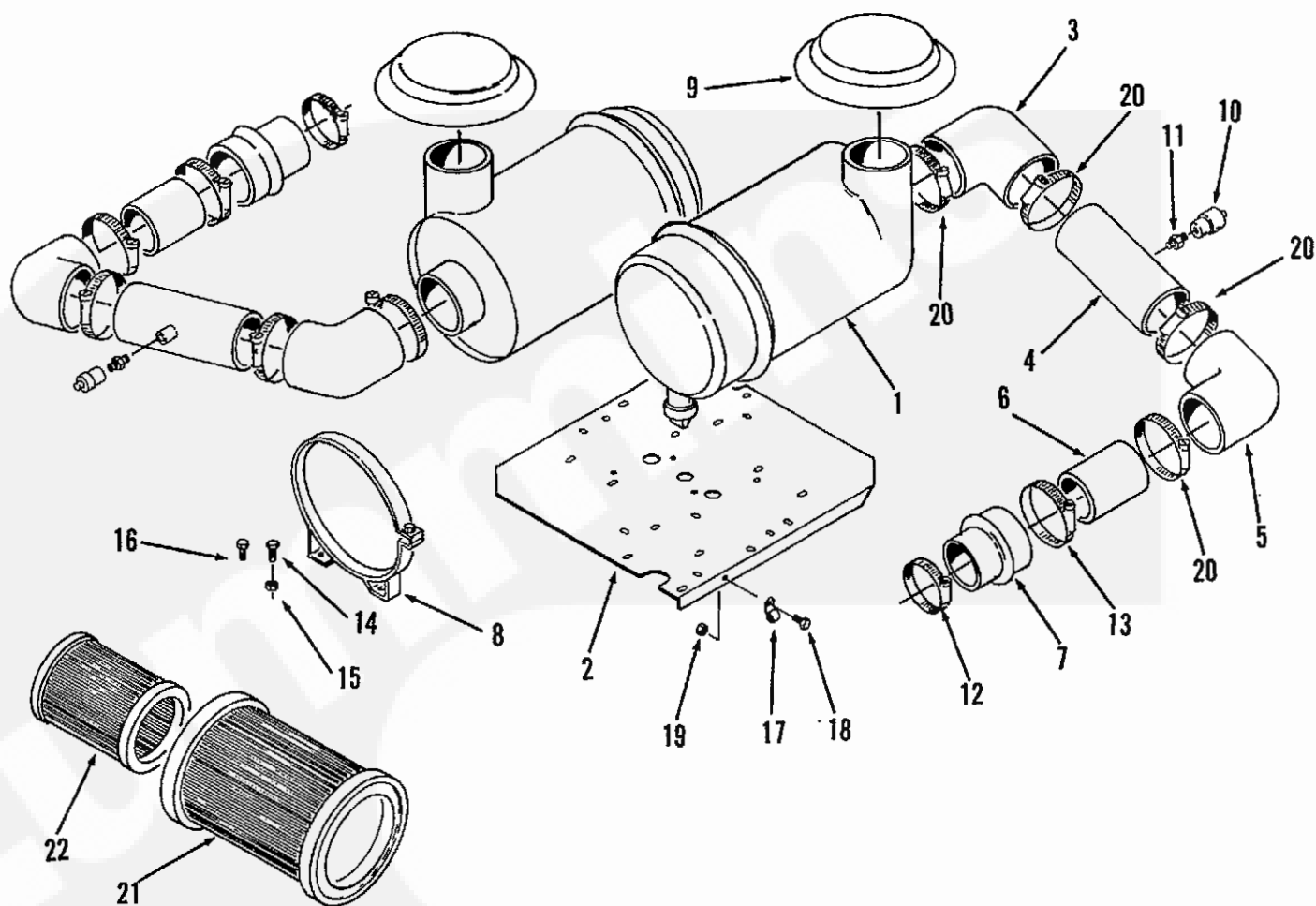
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	140-2463	2	Air Cleaner Assembly	15	140-1548	2	Indicator - Service
	140-2464	1	Element	16	505-0026	2	Coupling, Pipe (1/8)
2	140-2514	1	Bracket - Air Cleaner Mtg.	17	505-0098	2	Nipple, Close (1/8)
3	140-2504-01	1	Bracket (RH)	18	821-0029	8	Screw, Locking Hex Head (3/8-16 x .75)
4	140-2504-02	1	Bracket (LH)	19	870-0281	8	Nut, Locking Hex (3/8-16)
5	140-1973	4	Band, Mounting - Air Cleaner	20	821-0033	6	Screw, Locking Hex Head (7/16-14 x .75)
6	140-2516	2	Tube - Air Inlet, 6" Dia.	21	870-0437	4	Nut, Locking Hex (7/16)
7	140-2470	1	Tube - Air Inlet, 7" Dia.	22	800-0152	4	Screw, Cap, Hex Head (3/4-10 x 1.25)
8	503-1717	2	Elbow - Reducer (45°)	23	850-0079	4	Washer, Lock (3/4)
9	503-1722	2	Elbow - Reducer (45°)	24	140-2528	1	Shield
10	503-1705	1	Hose - Hump				
11	503-1870-10	2	Clamp - Hose				
13	503-1870-12	4	Clamp - Hose				
14	503-1870-14	4	Clamp - Hose				

Air Cleaner DFJD



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	140-2501	1	Air Cleaner Assembly	14	821-0029	7	Screw, Hex Head - Locking (3/8-16 x .75)
2	140-2514	1	Bracket - Air Cleaner Mtg.	15	870-0281	8	Nut, Lock (3/8-16)
3	140-2504-01	1	Bracket (RH)	16	821-0033	6	Screw, Hex Head - Locking (7/16-14 x .75)
4	140-2504-02	1	Bracket (LH)	17	870-0437	4	Nut, Lock (7/16")
5	140-2502	4	Band, Mounting	18	800-0152	4	Screw, Cap Hex Head (3/4-10 x 1.25)
6	140-2688	2	Tube - Air Inlet	19	850-0079	4	Washer, Lock (3/4")
7	503-1722	2	Elbow - Reducer (45°)	20	140-2528	1	Shield
8	503-1717	2	Elbow - Reducer (45°)	21	821-0030	1	Screw, Hex Head - Locking (3/8-16 x 1.00)
9	503-1870-10	2	Clamp, Hose	22	526-0124	1	Washer, Flat (3/8")
10	503-1870-12	4	Clamp, Hose (6.75)				
11	503-1870-14	2	Clamp, Hose (7.75)				
12	140-1548	2	Indicator - Service				
13	140-1260	2	Fitting - Safety Indicator				

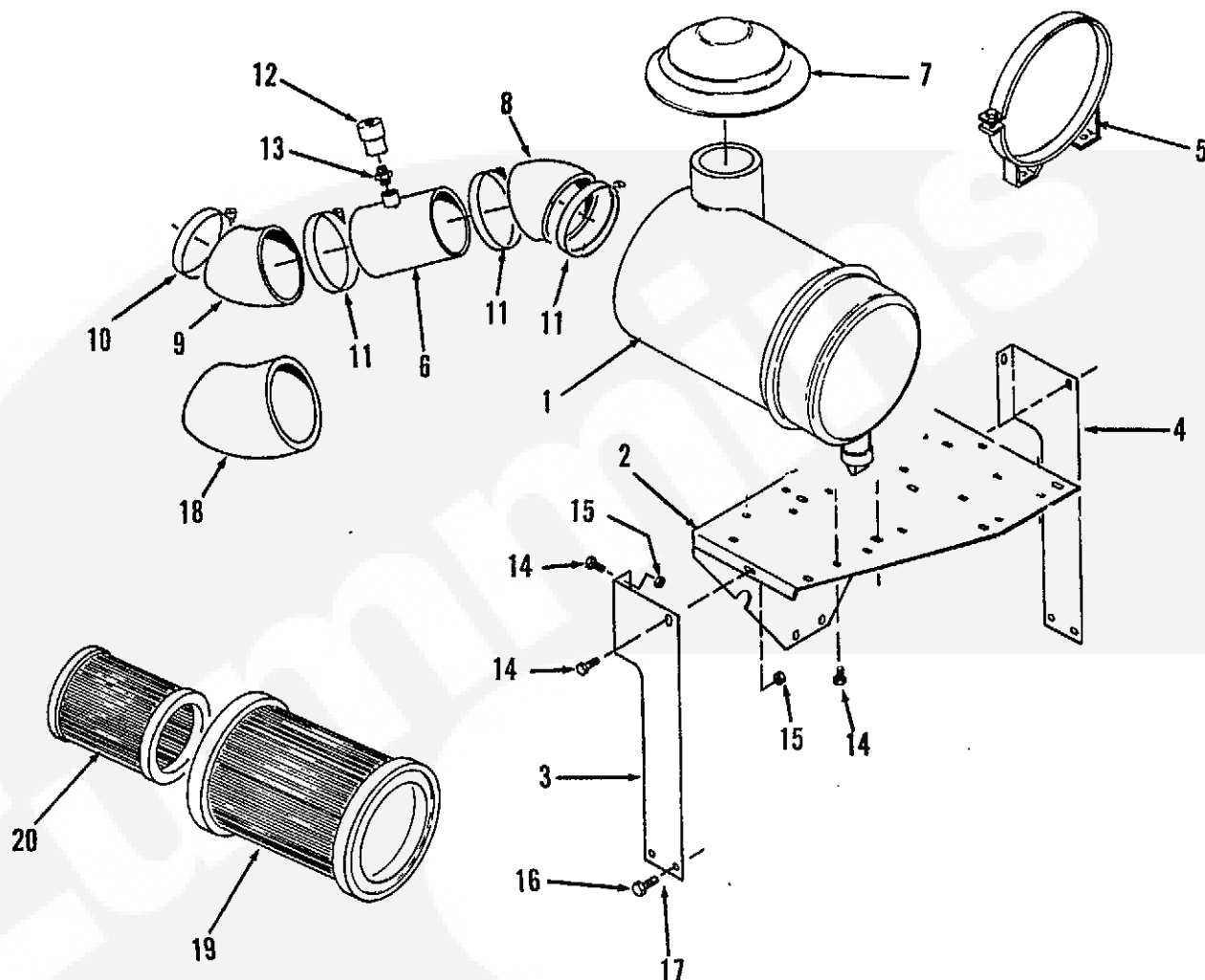
**Air Cleaner - H.D.
DFJA, DFJB**



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	140-2301	2	Air Cleaner Assembly
2	140-2515	1	Bracket
3	503-1703	2	Elbow - Reducer (90°)
4	140-2509	2	Tube, Air Inlet
5	503-0970	2	Elbow, (90°)
6	140-2519	2	Tube - Air Inlet
7	503-1675	2	Hose - Reducer
8	140-2052	4	Band, Mtg
9	140-1545	2	Hood
10	140-1548	2	Indicator - Service
11	140-1260	2	Fitting - Safety Filter
12	503-1870-11	2	Clamp, Hose

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
13	503-1870-12	2	Clamp, Hose
14	800-0033	12	Screw, Locking Hex Head (7/16-14 x .75)
15	870-0437	4	Nut, Locking Hex (7/16-14)
16	821-0028	2	Screw, Locking Hex (3/8-16 x .50)
17	332-2634	2	Clamp-J
18	821-0018	2	Screw, Locking Hex Head (1/4-20 x .63)
19	870-0212	2	Nut, Locking, Hex (1/4-20)
20	503-1870-14	2	Clamp, Hose
21	140-2465	1	Element - Primary
22	140-2466	1	Element - Safety

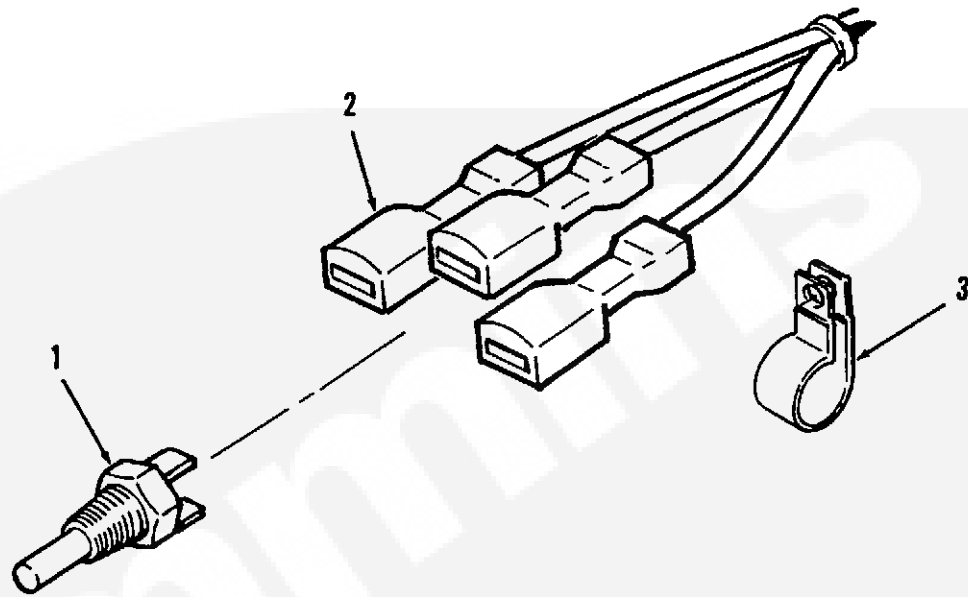
**AIR CLEANER H.D.
DFJC**



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	140-2301	2	Air Cleaner Assembly
2	140-2514	1	Bracket, Air Cleaner
3	140-2504-01	1	Bracket, Air Cleaner (RH)
4	140-2504-02	1	Bracket, Air Cleaner (LH)
5	140-2052	4	Band, Mtg.
6	140-2520	2	Tube - Air Inlet
7	140-1545	2	Hood - Air Inlet
8	503-1723	2	Elbow, Hose (45°)
9	503-1722	2	Elbow - Reducer (45°)
10	503-1870-10	2	Clamp - Hose
11	503-1870-12	6	Clamp - Hose

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
12	140-1548	2	Indicator, Service
13	140-1260	2	Fitting - Safety Filter
14	821-0033	14	Screw, Locking, Hex Head (7/16-14 x .75)
15	870-0437	12	Nut, Lock, Hex (7/16-14)
16	800-0152	4	Screw, Hex Head (3/4-10 x 1.25)
17	850-0079	4	Washer, Lock (3/4)
18	140-2528	1	Shield, Heat
19	140-2465	1	Element - Primary
20	140-2466	1	Element - Safety

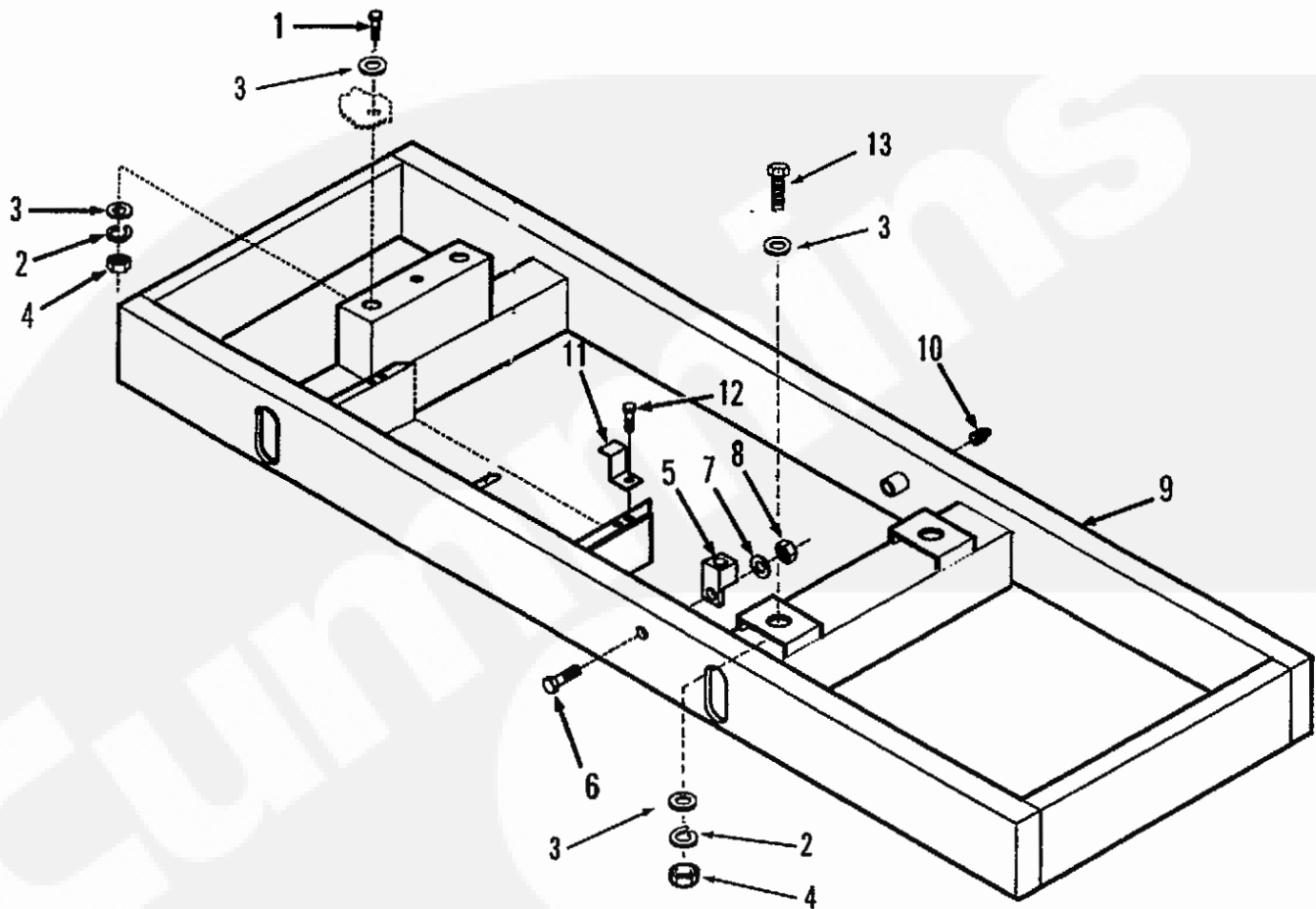
Low Coolant Level Sender



1100A

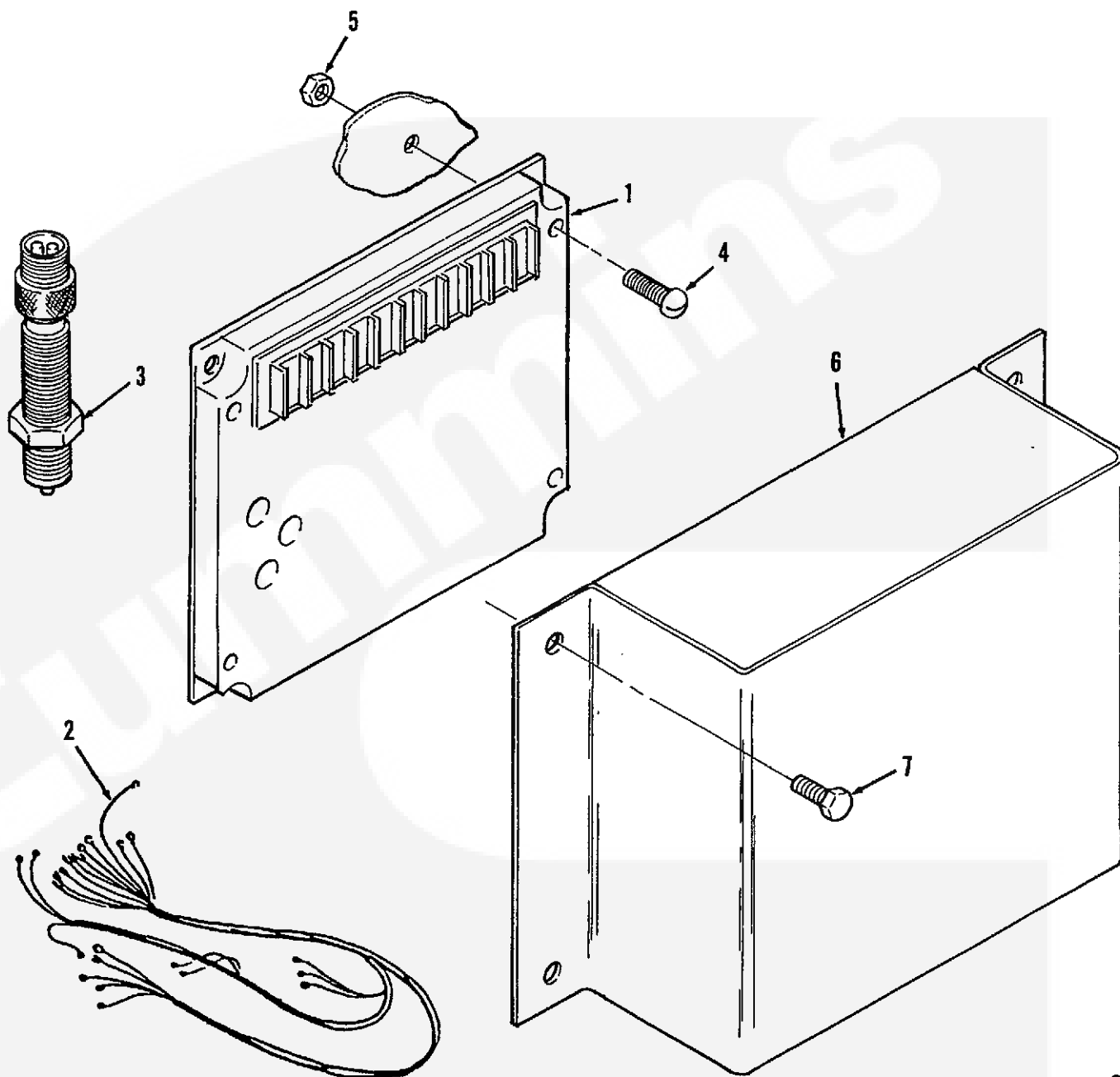
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	193-0322	1	Sender - Low Coolant Level (S7)	3	518-0350	1	Clamp, Insulated
2	338-2010	1	Harness, Wiring				

Skid



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	800-0163	2	Screw, Cap - Hex Head (3/4"-10 x 4)		403-3155	6	DJFA, DFJB, DFJC, DFJD
2	850-0079	22	Washer, Lock - Spring (3/4)		403-3141		DFLA, DFLB, DFLC, DFLD, DFMB
3	526-0027	6	Washer, Flat (3/4)	10	505-1379	1	Plug, Pipe (1/2")
4	862-0008	4	Nut, Hex (3/4-10)	11	416-0850	8	Bracket, Battery
5	332-2001	1	Lug, Solderless - Grounding	12	800-0048	8	Screw, Cap - Hex Head (3/8-16 x 3/4")
6	800-0050	1	Screw, Cap - Hex Head (3/8-16 x 1)				
7	856-0010	1	Washer, Lock - EIT (3/8")	13	800-0158	4	Screw, Cap - Hex Head (3/4-10 x 2.75)
8	870-0281	1	Nut, Locking - Hex Head (3/8-16)				
9			Skid				

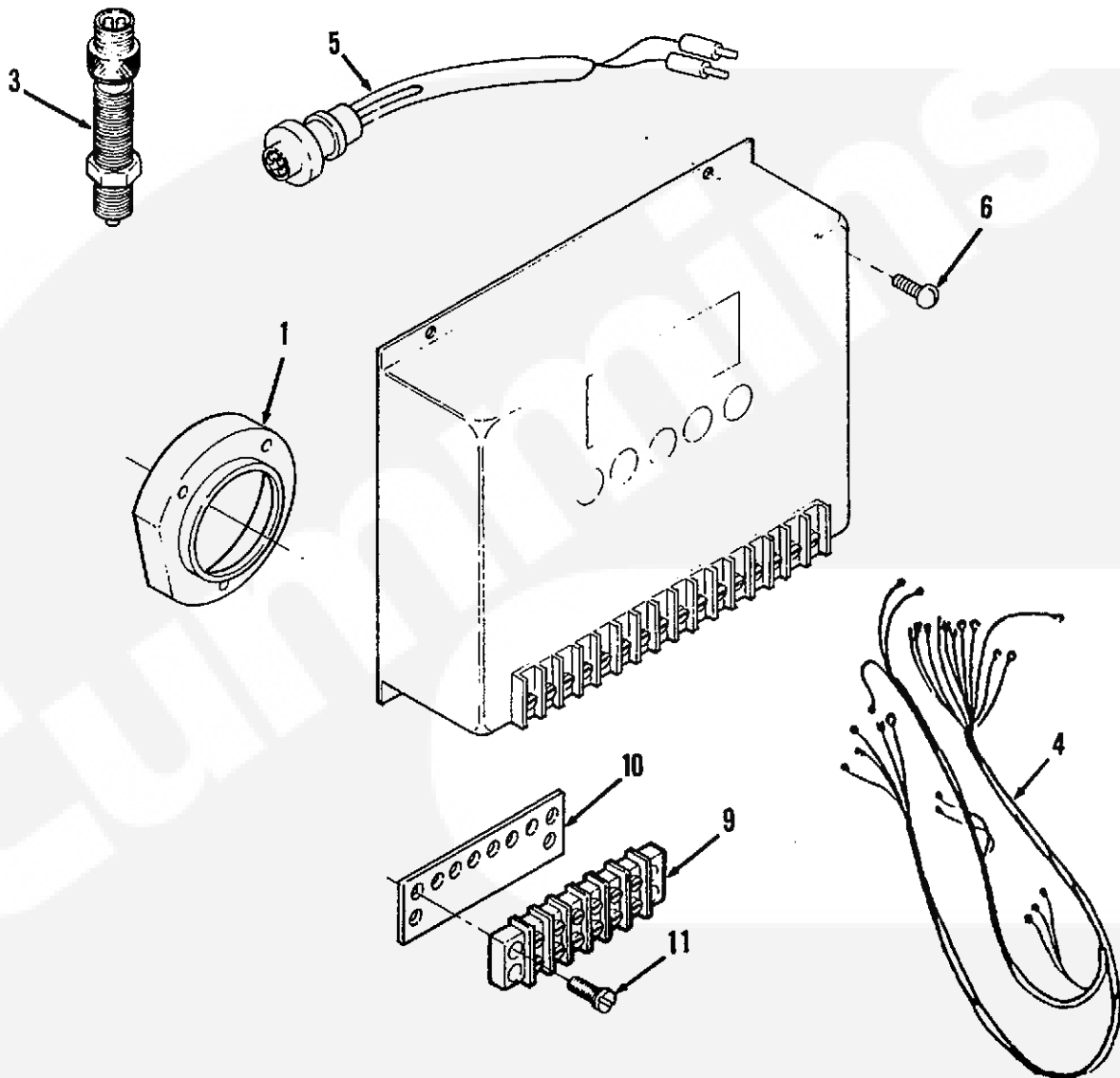
Electronic Governor



949B

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	151-0637	1	Control, Governor	5	850-0030	4	Washer, Lock (#10)
2	338-2526	1	Harness, Wiring - Governor Control	6	150-2213	1	Cover, Control
3	151-0411	1	Pickup, Magnetic	7	821-0010	4	Screw, Locking - Hex Head (1/4-20 x 1/2")
4	813-0130	4	Screw, Machine - Round Head (#10-32 x 3/4")				

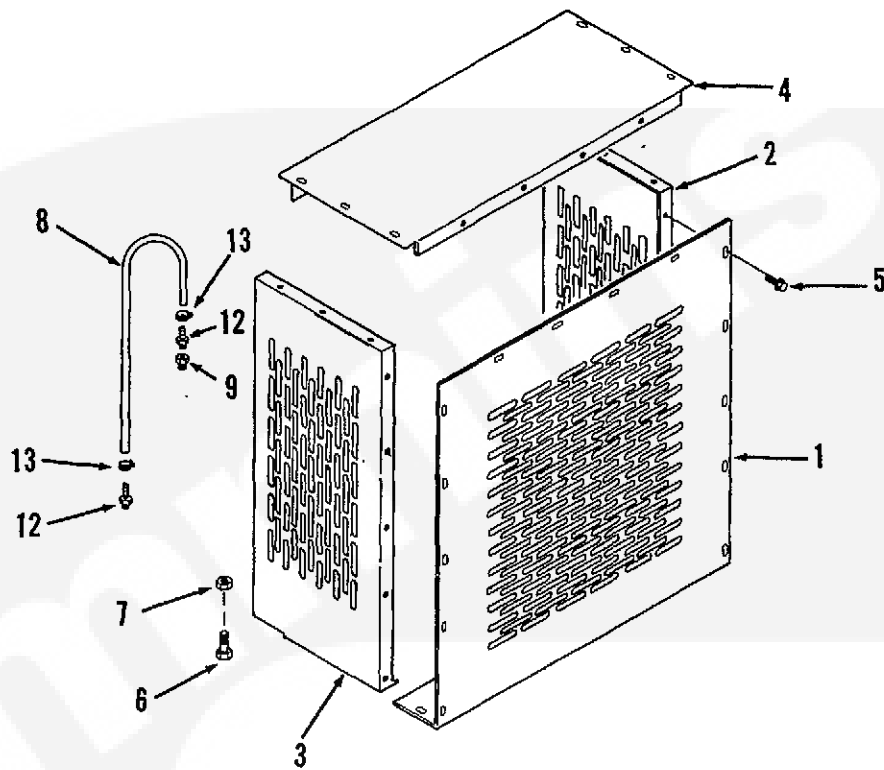
Woodward Governor



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	149-2287	1	Plug - Fuel Pump Mod.
3	151-0411	1	Pickup, Magnetic
4	338-2526	1	Harness, Wiring - Governor Control
5	338-2538	1	Harness, Adapter - Wood Governor to Engine Harness (12")

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Screw, Machine - Round Head (#10-32 x 3/4")
9	332-0699	1	Block, Terminal (6 Place)
10	332-0970	1	Strip, Marker (6 Place)
11	822-1050	2	Screw, Machine - Pan Head (#8-32 x 3/4")

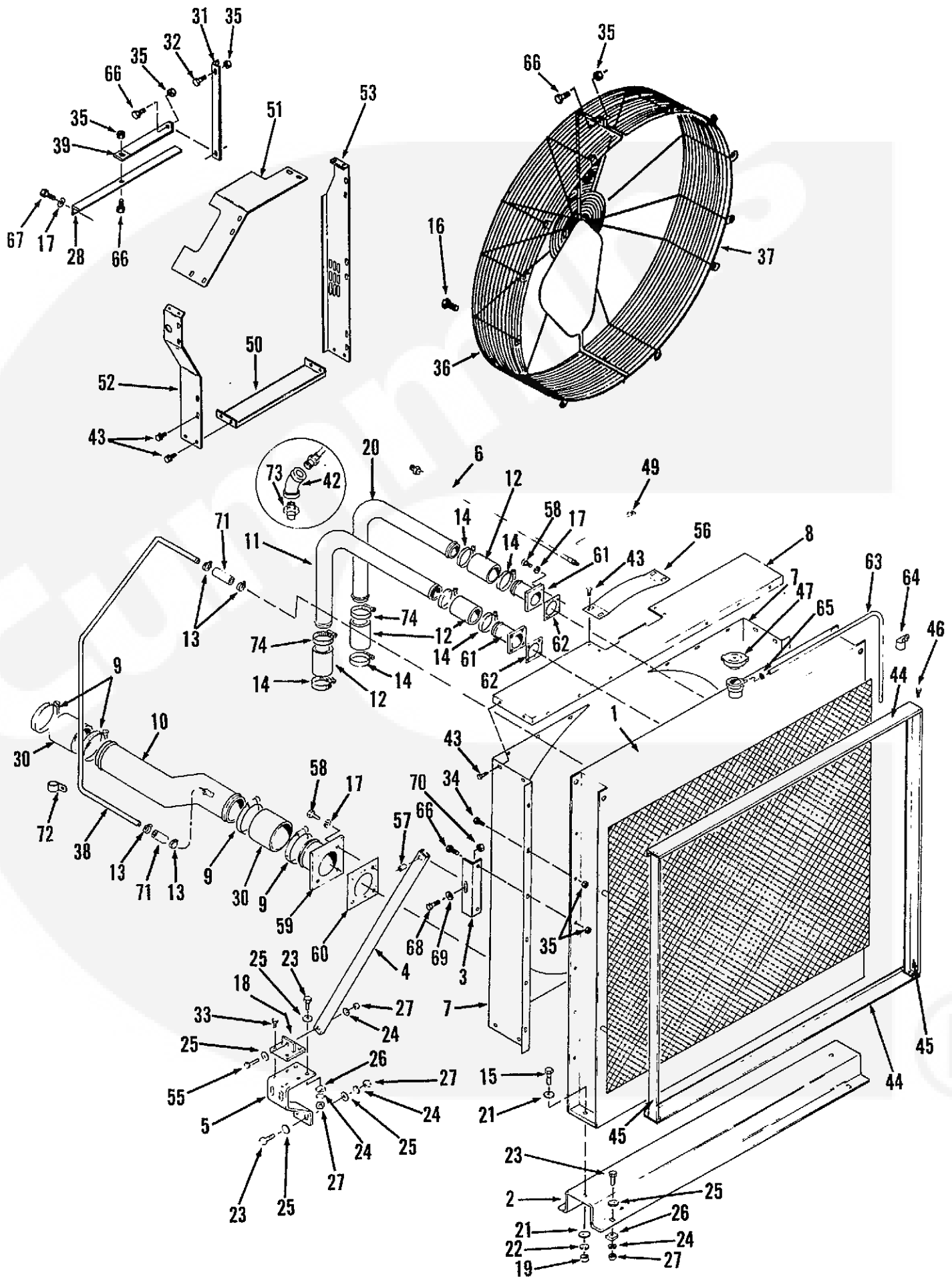
**Remote Radiator
DFJA, DFJB, DFJC**



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130-3715	1	Cover - Damper Guard
2	130-3714-01	1	Guard - Damper (RH)
3	130-3714-02	1	Guard - Damper (LH)
4	130-3713	1	Guard - Damper (Top)
5	821-0010	22	Screw, Hex Head Locking (1/4-20 x .50)
6	821-0030	2	Screw, Hex Head Locking (3/8-16 x 1)

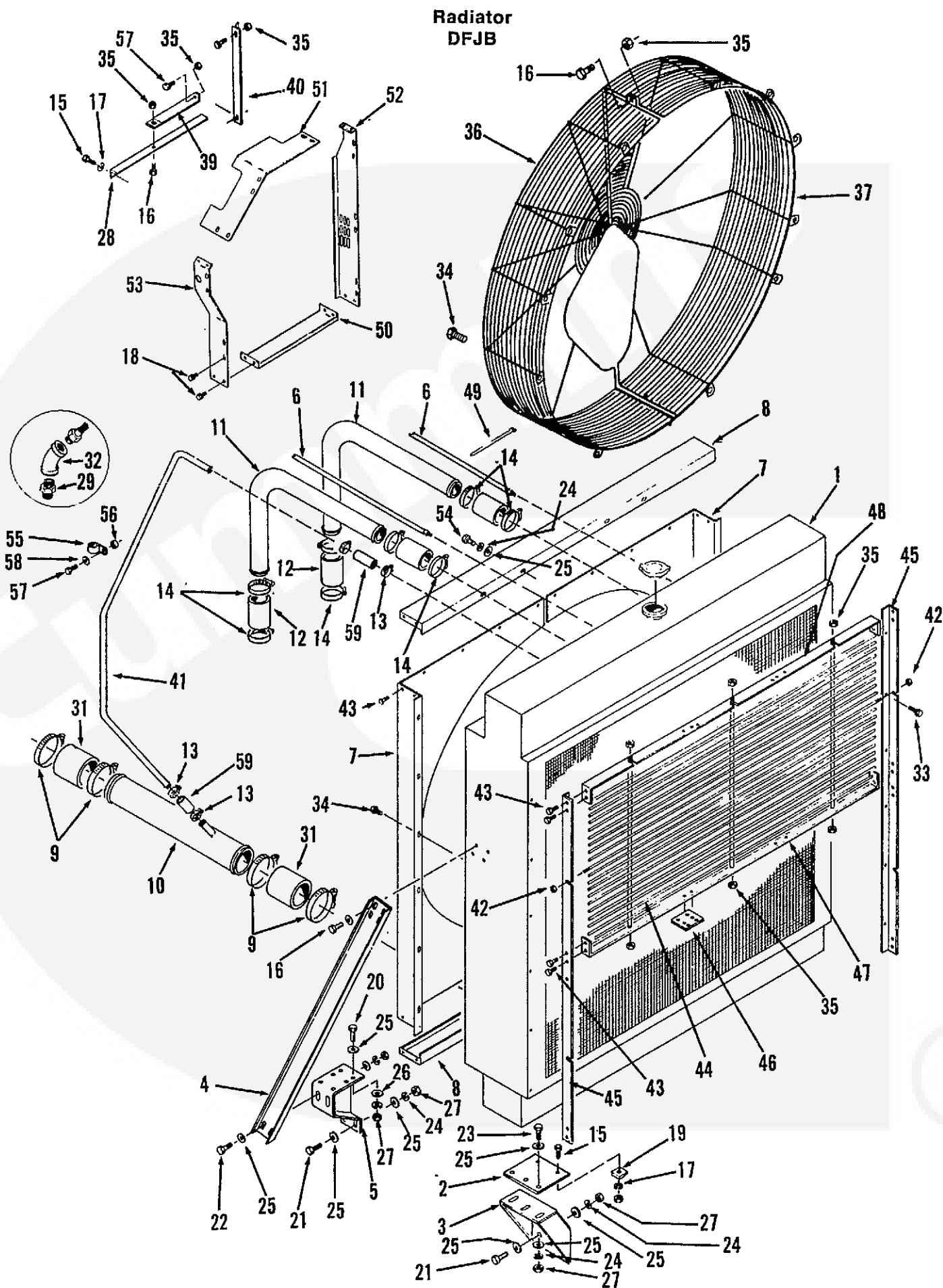
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	870-0281	2	Nut, Locking Hex Head (3/8-16)
8	503-1418	1	Hose (1/4" x 60")
9	505-0020	2	Bushing - Reducer (3/4" x 1/4")
12	502-0395	4	Connector, Hose (1/4")
13	503-0685	4	Clamp, Hose (1/4")

**Radiator
DFJA**



Radiator DFJA

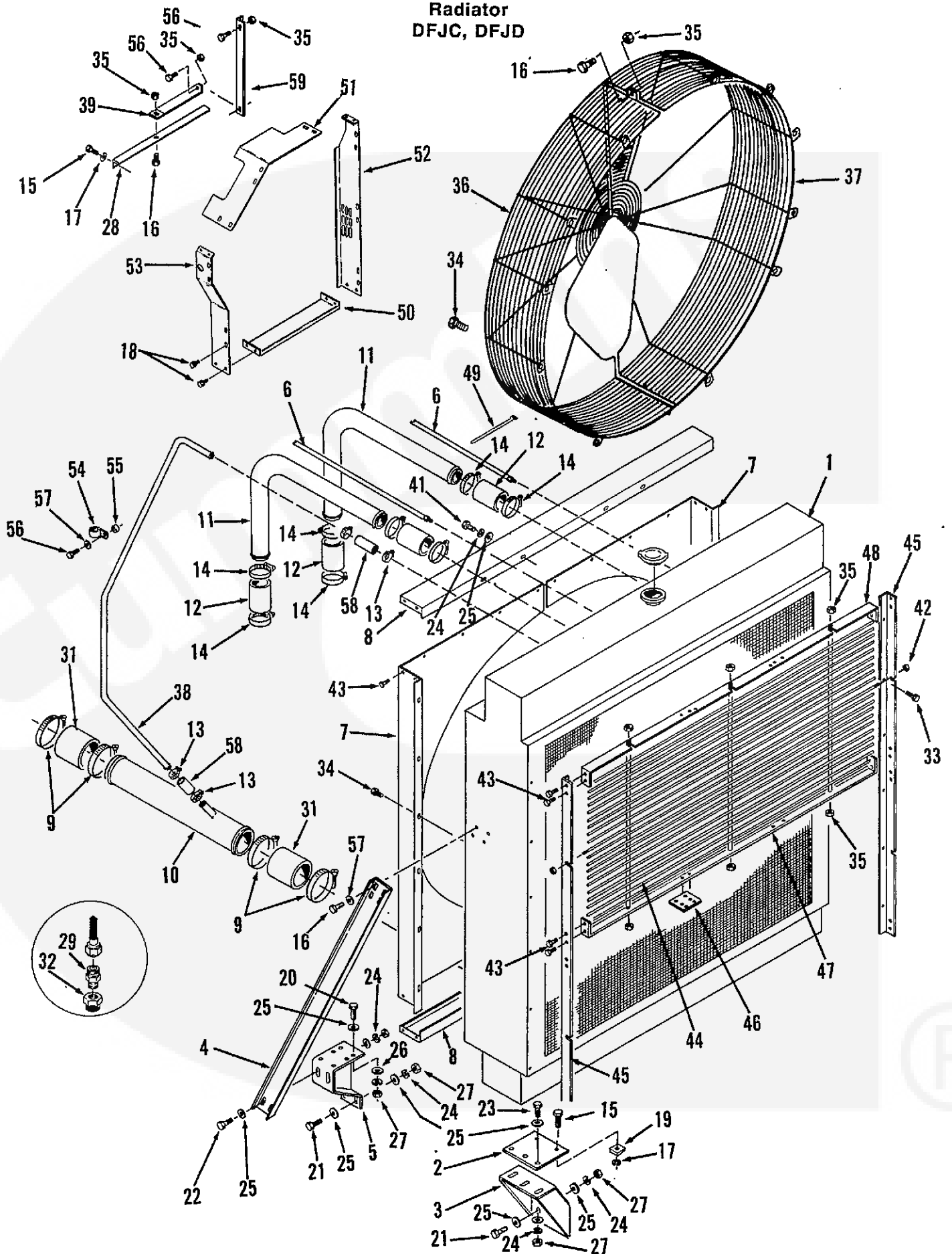
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130-1197	1	Radiator	38	130-4218	1	Tube, Radiator
2	130-3694	2	Support, Radiator	39	130-3775	1	Angle, Stiffener
3	130-3701	2	Bracket, Radiator	40	505-0759	1	Adapter - Pipe
4	130-3702	2	Support, Radiator	41	505-0003	1	Elbow, Street, 1" (-90°)
5	130-3644	2	Support	42	505-0376	2	Elbow, 3/8 (45°)
6	501-0615	2	Line, Flex - Fuel	43	821-0014	28	Screw, Locking Hex Head (5/16-18 x .50)
7	130-3695	2	Wrapper, Shroud	44	130-1419	2	Flange - Side
8	130-3697	2	Shroud, Fan	45	130-3215	2	Flange - Top & Bottom
9	503-1872-09	4	Clamp, Hose (5.50 Dia.)	46	821-0010	8	Screw, Hex Head - Locking (1/4-20 x 1/2)
10	130-3707	1	Tube, Radiator - Outlet	47	130-2981	1	Cap, Pressure
11	130-3706	1	Tube, Radiator - Inlet (LH)	49	332-1389	5	Tie, Cable
12	503-1728	4	Hose, Radiator	50	130-3712	1	Guard, Belt (Bottom)
13	503-1872-01	4	Clamp, Hose (2" Dia.)	51	130-3711	1	Guard, Belt (Top)
14	503-1872-05	6	Clamp, Hose (3.50 Dia.)	52	130-3709	1	Guard, Belt (RH)
15	800-0156	2	Screw, Hex Head (3/4-10 x 2.25)	53	130-3710	1	Guard, Belt (LH)
16	821-0010	20	Screw, Hex Head, Locking (1/4-20 x .50)	54	505-0020	2	Bushing, Reducer (3/4 x 1/4)
17	850-0050	14	Washer, Lock (3/8")	55	800-0095	2	Screw, Cap - Hex Head (1/2-13 x 2.25)
18	130-3700	4	Bracket, Radiator	56	130-3699	2	Shroud, Fan Tip
19	862-0008	2	Nut, Hex (3/4-10)	57	130-3660-01	2	Spacer
20	130-3705	1	Tube, Radiator - Inlet (RH)	58	800-0050	12	Screw, Hex Head (3/8-16 x 1)
21	526-0027	4	Washer, Flat (3/4)	59	130-3703	1	Adapter - Outlet
22	850-0079	2	Washer, Lock (3/4)	60	130-1229	1	Gasket, Outlet
23	800-0094	12	Screw, Cap Hex Head (1/2-13 x 2.00)	61	130-1203	2	Adapter - Inlet
24	850-0060	14	Washer, Lock (1/2")	62	130-1227	2	Gasket, Inlet
25	526-0219	14	Washer, Flat (1/2")	63	503-1620	1	Hose, Coolant
26	403-2733-01	8	Washer, Bevel	64	148-0274	2	Clip - J
27	862-0016	14	Nut, Hex (1/2-13)	65	503-0685	1	Clamp, Hose
28	130-3778	1	Angle, Stiffener	66	821-0030	6	Screw, Hex Head, Locking (3/8-16 x 1.00)
29	505-0023	1	Bushing - Reducer (1-1/4 x 1)	67	800-0051	2	Screw, Hex Head (3/8-16 x 1.25)
30	503-1726	2	Hose, Radiator	68	800-0075	2	Screw, Hex Head (7/16-14 x 2.00)
31	130-4219	1	Angle, Stiffener	69	526-0141	2	Washer, Flat (7/16)
32	821-0035	2	Screw, Hex Head, Locking (3/8-16 x 1.25)	70	870-0437	2	Nut, Hex - Lock (7/16)
33	815-0384	8	Screw, Hex Head (Thd. Form) (3/8-16 x .75)	71	503-1634	2	Tube
34	821-0029	20	Screw, Hex Head, Washer (3/8-16 x .75)	72	518-0548-20	2	Clip
35	870-0281	16	Nut, Lock (3/8-16)	73	309-0635-02	2	Valve, Check
36	130-3693-01	1	Guard, Fan (LH)	74	503-1870-05	2	Clamp, Hose
37	130-3639-02	1	Guard, Fan (RH)				



Radiator DFJB

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130-3615	1	Radiator	31	503-1726	2	Hose, Radiator
2	130-3642	2	Spacer, Radiator	32	505-0376	2	Elbow, 3/8 (45°)
3	130-3639	2	Bracket, Radiator - Support	33	815-0384	12	Screw, (3/8-16 x .75)
4	130-3643	2	Support, Radiator	34	821-0029	24	Screw, Hex Head - Locking (3/8-16 x 7.5)
5	130-3644	2	Support	35	870-0281	22	Nut, Lock (3/8-16)
6			Line, Flex-Fuel	36	130-3693-01	1	Guard, Fan (LH)
	501-0558	2	Spec "G" & Below	37	130-3693-02	1	Guard, Fan (RH)
	501-0613	2	Spec "H"	38	503-1730	1	Hose, Radiator
7	130-3696	2	Wrapper, Shroud - Fan	39	130-3775	1	Angle, Stiffener
8	130-3698	2	Shroud - Fan	40	130-4219	1	Angle, Stiffener
9	503-1872-09	4	Clamp, Hose (5.50 Dia.)	41	130-4155	1	Tube, Radiator (1.50 Dia.)
10	130-4152	1	Tube, Radiator - Outlet	42	870-0212	8	Nut, Lock (1/4-20)
11	130-3648	2	Tube, Radiator - Inlet	43	821-0014	32	Screw, Locking Hex Head (5/16-18 x .50)
12	503-1728	4	Hose, Radiator	44	130-3827	2	Grille
13	503-1872-02	2	Clamp, Hose (2" Dia.)	45	130-3826	2	Support, Grille
14	503-1872-05	8	Clamp, Hose (3.50 Dia.)	46	130-3825	4	Plate, Stiffener
15	800-0051	6	Screw, Cap Hex Head	47	130-3663	2	Support, Grille (Bottom)
16	821-0030	10	Screw, Hex Head - Locking (3/8-16 x 1.)	48	130-3662	2	Support, Grille (Top)
17	850-0048	6	Washer, Lock (3/8")	49	332-3008	8	Tie, Cable
18	821-0010	20	Screw, Hex Head - Locking (1/4-20 x .50)	50	130-3712	1	Guard, Belt (Bottom)
19	403-2733-02	4	Washer, Bevel (3/8")	51	130-3711	1	Guard, Belt (Top)
20	800-0093	4	Screw, Cap Hex Head (1/2-13 x 1.75)	52	130-3709	1	Guard, Belt (RH)
21	800-0092	12	Screw, Cap Hex Head (1/2-13 x 1.50)	53	130-3710	1	Guard, Belt (LH)
22	800-0091	4	Screw, Cap Hex Head (1/2-13 x 1.25)	54	800-0090	8	Screw, Cap Hex Head (1/2-13 x 1.00)
23	800-0094	6	Screw, Cap Hex Head (1/2-13 x 2.00)	55	518-0633	2	Clip-J
24	850-0060	26	Washer, Lock (1/2")	56	130-3660	2	Spacer
25	526-0219	48	Washer, Flat (1/2")	57	821-0035	2	Screw, Locking Hex Head (3/8-16 x 1-1/4")
26	403-2733-01	4	Washer, Bevel (1/2")	58	526-0029	2	Washer, Flat (3/8)
27	862-0016	22	Nut, Hex (1/2-13)	59	503-1863	2	Hose, Radiator
28	130-3778	1	Angle, Engine				
29	309-0635-02	2	Valve, Check				

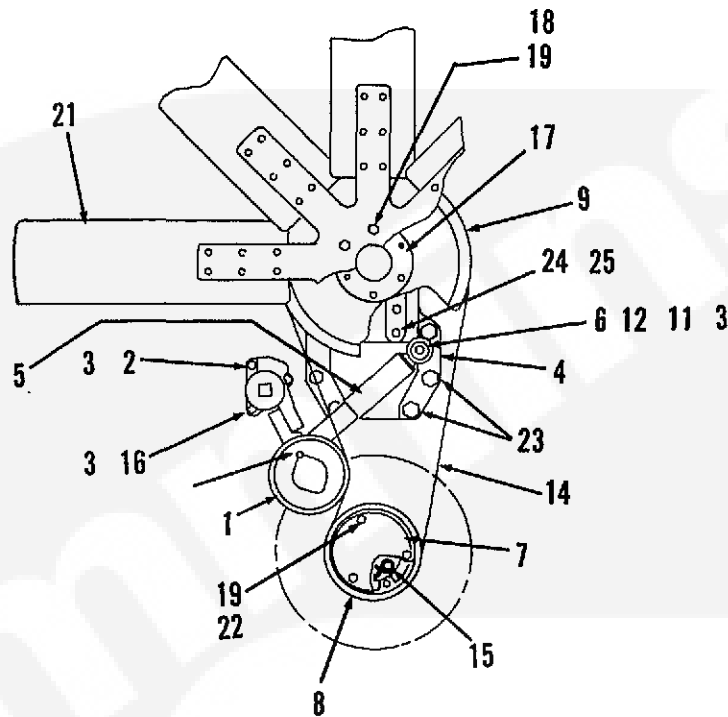
Radiator DFJC, DFJD



Radiator DFJC, DFJD

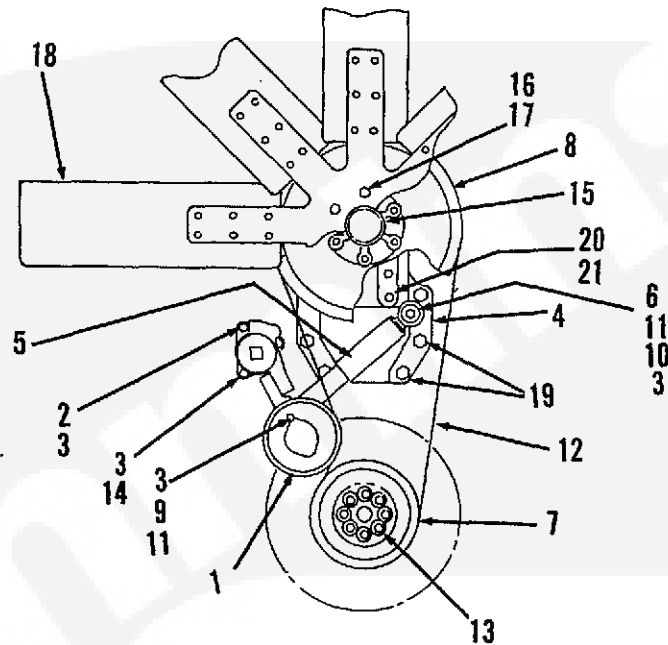
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1			Radiator	28	130-3778	1	Angle, Engine
	130-4167	1	DFJD	29	309-0635-02	2	Valve, Check
	130-3615	1	DFJC	31	503-1726	2	Hose, Radiator
2	130-3642	2	Spacer, Radiator	32	505-0020	2	Bushing, Reducer (3/4" x 1/4")
3	130-3639	2	Bracket, Radiator - Support	33	815-0384	12	Screw, (3/8-16 x .75)
4	130-3643	2	Support, Radiator	34	821-0029	24	Screw, Hex Head - Locking (3/8-16 x 7.5)
5	130-3644	2	Support				
6	501-0614	2	Line, Flex - Fuel	35	870-0281	22	Nut, Lock (3/8-16)
7			Wrapper, Shroud - Fan	36	130-3693-01	1	Guard, Fan (LH)
	130-3696	2	DFJD, DFJC - 60" Dia. Fan	37	130-3693-02	1	Guard, Fan (RH)
	130-3696-01	2	DFJD - 56" Dia. Fan	38	130-4155		Tube, Radiator
8	130-3698	2	Shroud, Fan	39	130-3775	1	Angle, Stiffener
9	503-1872-09	4	Clamp, Hose (5.50 Dia.)	40	505-0153	2	Coupling, Reducer (3/8" x 1/4")
10	130-4152	1	Tube, Radiator - Outlet	41	800-0090	8	Screw, Hex Head (1/2-13 x 1.00)
11	130-3648	2	Tube, Radiator - Inlet	42	870-0212	8	Nut, Lock (1/4-20)
12	503-1728	4	Hose, Radiator	43	821-0014	32	Screw, Locking Hex Head (5/16-18 x .50)
13	503-1872-02	2	Clamp, Hose (2" Dia.)				
14	503-1872-05	8	Clamp, Hose (3.50 Dia.)	44	130-3827	2	Grille
15	800-0051	6	Screw, Hex Head	45	130-3826	2	Support, Grille
16	821-0030	10	Screw Locking Hex Head (3/8-16 x 1.)	46	130-3825	4	Plate, Stiffener
17	850-0048	6	Washer, Lock (3/8")	47	130-3663	2	Support, Grille (Bottom)
18	821-0010	20	Screw, Hex Head - Locking (1/4-20 x .50)	48	130-3662	2	Support, Grille (Top)
19	403-2733-02	4	Washer - Bevel (3/8")	49	332-3008	8	Tie, Cable
20	800-0093	4	Screw, Cap Hex Head (1/2-13 x 1.75)	50	130-3712	1	Guard, Belt (Bottom)
21	800-0092	12	Screw, Cap Hex Head (1/2-13 x 1.50)	51	130-3711	1	Guard, Belt (Top)
22	800-0091	4	Screw, Cap Hex Head (1/2-13 x 1.25)	52	130-3709	1	Guard, Belt (RH)
23	800-0094	6	Screw, Cap Hex Head (1/2-13-2.00)	53	130-3710	1	Guard, Belt (LH)
24	850-0060	26	Washer, Lock (1/2")	54	518-0633	2	Clip-J
25	526-0219	48	Washer, Flat (1/2")	55	130-3660	2	Spacer
26	403-2733-01	4	Washer, Bevel (1/2")	56	821-0035	4	Screw, Locking Hex Head (3/8-16 x 1.25)
27	862-0016	22	Nut, Hex (1/2-13)	57	526-0029	2	Washer, Flat (3/8")
				58	503-1863	2	Hose, Radiator (1-1/2" x 4")
				59	130-4219	1	Angle, Stiffener

**Fan Drive
DFJA, DFJB, DFJC**



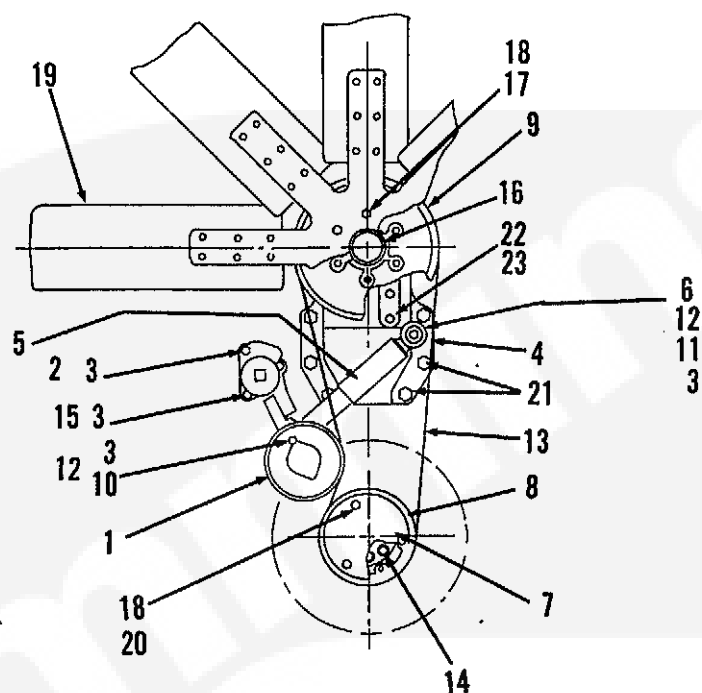
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130-3667	1	Idler Assembly - Fan	13	826-0004	1	Nut, Hex (7/16")
2	800-0500	2	Screw, Hex Head (7/16-14 x 5.50) Gr. 8	14	511-0161-04	1	Belt, V-Ribbed
3	800-0055	5	Washer, Lock (7/16")	15	815-0769-01	8	Screw - 12 Point Cup
4	130-3635	1	Support	16	800-0580	1	Screw, Cap Hex Head (7/16-14 x 1.62) Gr. 8
5	402-0612	1	Absorber, Shock	17	130-4153	1	Spacer - Fan
6	800-0077	1	Screw, Cap Hex Head (7/16-14 x 2.50)	18	800-0106	6	Screw, Cap Hex Head (1/2-13 x 5.50)
7	130-3627	1	Cover - Protective	19	850-0060	6	Washer, Lock (1/2")
8	130-3631	1	Pulley (Dia. 8.0)	20	130-3629-06	1	Fan
9	130-3636	1	Pulley	21	800-0088	3	Screw, Cap Hex Head (1/2-13 x .75)
10	800-0078	1	Screw, Hex Head (7/16-14 x 2.75)	22	800-0163	6	Screw, Cap Hex Head (3/4-10 x 4)
11	130-3660	1	Spacer	23	800-0135	4	Screw, Cap Hex Head (5/8-11 x 2.25)
12	526-0141	2	Washer, Flat (7/16")	24	850-0070	4	Washer, Lock (5/8")

**Fan Drive (.55:1)
DFJD**



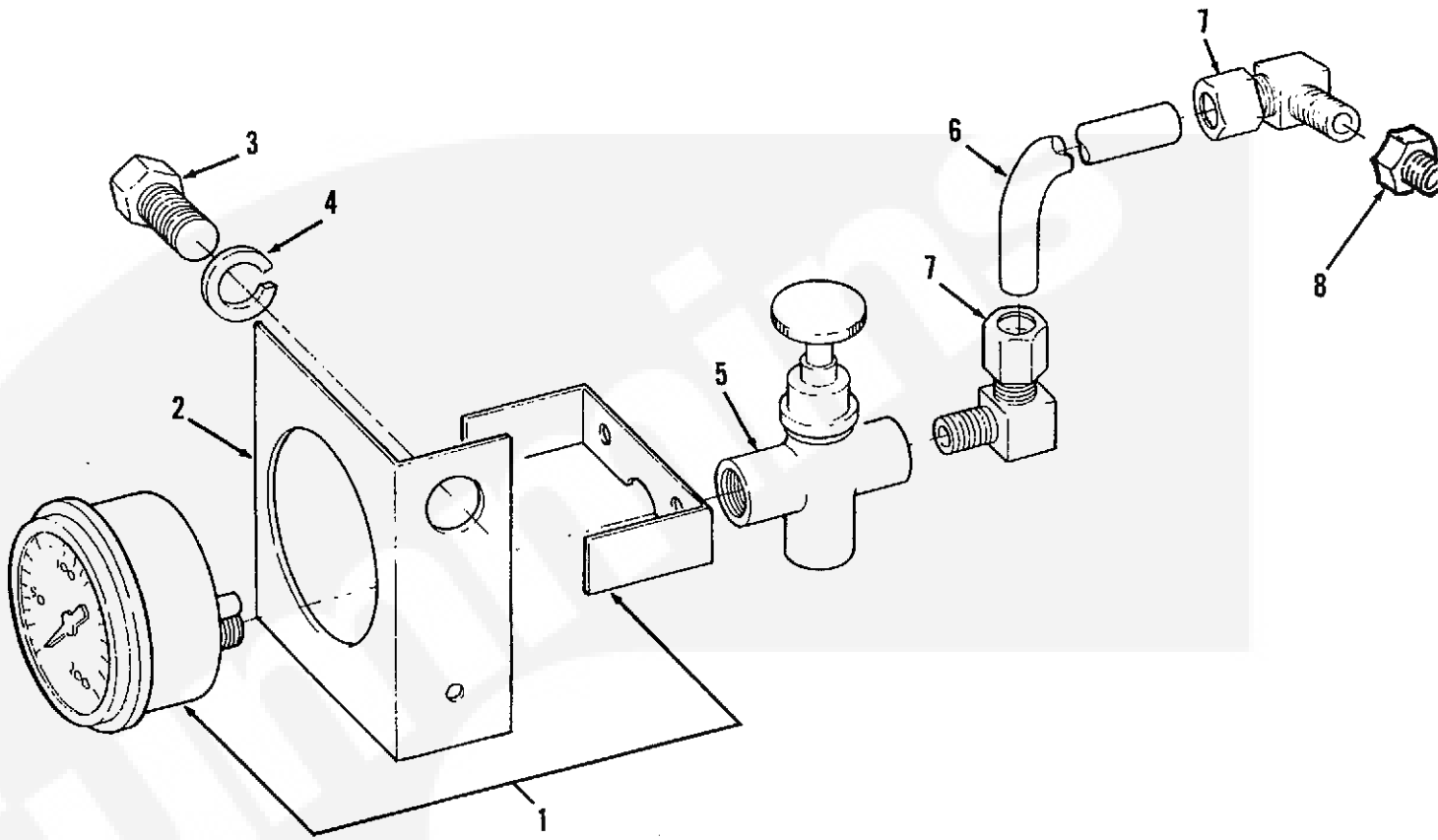
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130-3667	1	Idler Assembly - Fan	12	511-0161-11	1	Belt, V-Ribbed
2	800-0500	2	Screw, Hex Head (7/16-14 x 5.50) Gr. 8	13	815-0769-01	8	Screw - 12 Point Cap
3	800-0055	5	Washer, Lock (7/16")	14	800-0580	1	Screw, Cap Hex Head (7/16-14 x 1.62) Gr. 8
4	3012281	1	Support, Fan	15	130-4153	1	Spacer - Fan
5	3008018	1	Absorber, Shock	16	800-0106	6	Screw, Hex Head (1/2-13 x 5.50)
6	800-0077	1	Screw, Cap Hex Head (7/16-14 x 2.50)	17	850-0060	6	Washer, Lock (1/2")
7	130-4165	1	Pulley - Fan Drive	18	3006780	1	Fan, Engine
8	130-3636	1	Pulley - Fan Drive Assembly	19	800-0163	6	Screw, Cap Hex Head (3/4-10 x 4.00)
9	800-0078	1	Screw, Cap Hex Head (7/16-14 x 2.75)	20	800-0135	4	Screw, Cap Hex Head (5/8-11 x 2.25)
10	130-3660	1	Spacer	21	850-0070	4	Washer, Lock (5/8")
11	526-0141	2	Washer, Flat (7/16")				

**Fan Drive (.64:1)
DFJD**



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130-3667	1	Idler Assembly - Fan	13	511-0161-10	1	Belt-V Ribbed
2	800-0500	2	Screw, Cap Hex Head (7/16-14 x 5.50) Gr. 8	14	815-0769-01	8	Screw, 12 Point Cup
3	800-0055	5	Washer, Lock (7/16")	15	800-0580	1	Screw, Cap Hex Head (7/16-14 x 1.62) Gr. 8
4	3012281	1	Support - Fan	16	130-4153	1	Spacer, Fan
5	3008018	1	Absorber, Shock	17	800-0106	6	Screw, Cap Hex Head (1/2-13 x 5.50)
6	800-0077	1	Screw, Cap Hex Head (7/16-14 x 2.50)	18	850-0060	9	Washer, Lock (1/2")
7	3036115	1	Cover, Protective	19	130-3831-02	1	Fan, Engine
8	3003344	1	Pulley, Crankshaft	20	800-0088	3	Screw, Cap Hex Head (1/2-13 x .75)
9	3031545	1	Pulley, Fan Drive	21	800-0163	6	Screw, Cap Hex Head (3/4-10 x 4)
10	800-0078	1	Screw, Cap Hex Head (7/16-14 x 2.75)	22	800-0135	4	Screw, Cap Hex Head (5/8-11 x 2.25)
11	130-3660	1	Spacer, Shock	23	850-0070	4	Washer, Lock (5/8")
12	526-0141	2	Washer, Flat (7/16")				

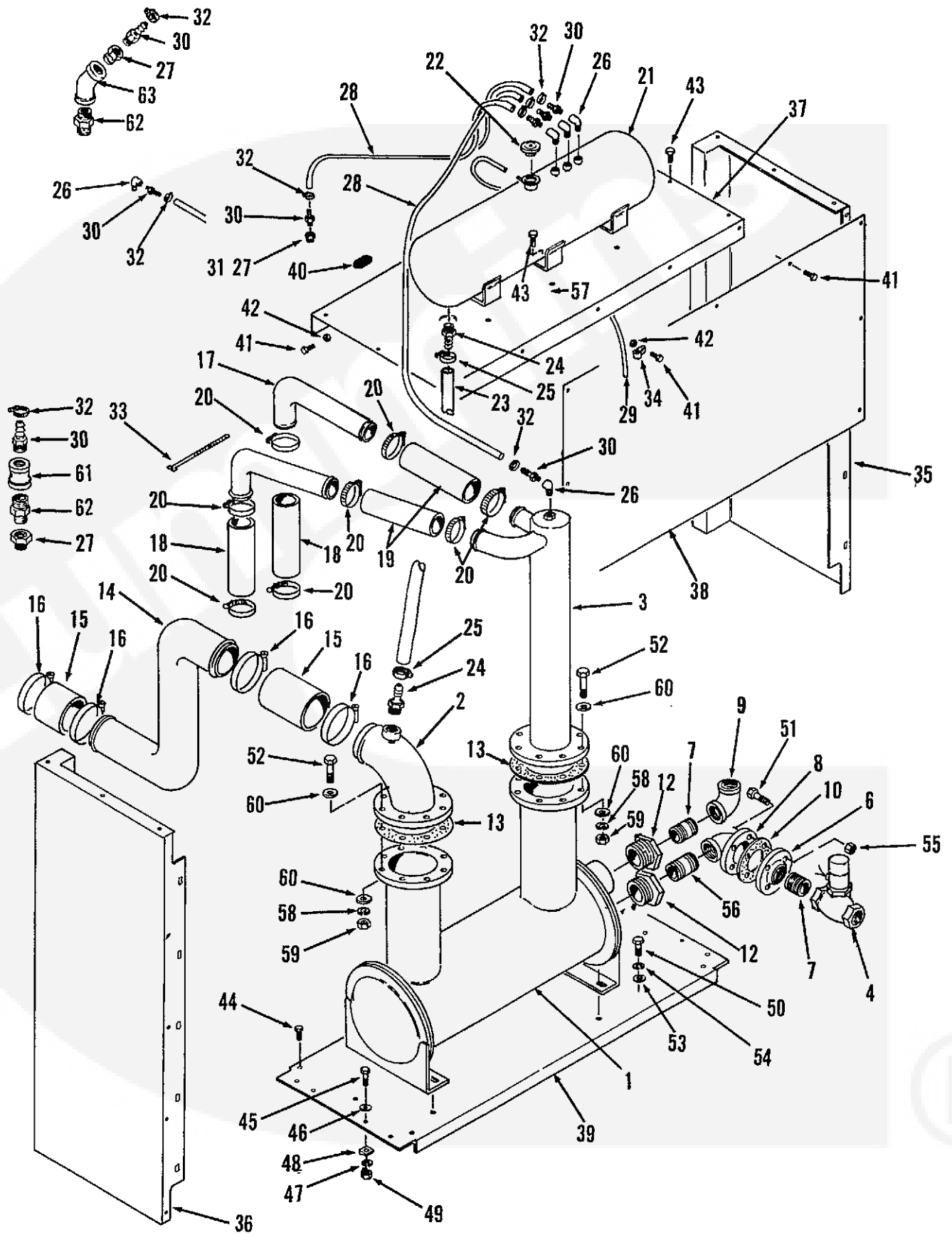
Fuel Pressure Gauge



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	193-0128	1	Gauge, Pressure (Includes Mounting Hardware)
2	193-0029	1	Bracket, Mounting
5	504-0064	1	Valve
6			Tube, Copper

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
149-2291-01		1	DFJA, DFJB, DFJC
149-2291-02		1	DFLA, DFLB, DFLE, DFLD, DFME
7	502-0034	2	Elbow, Compression - 90° (Includes Nut and Ring)
8	505-0007	1	Bushing, Reducer (1/4 to 1/8)

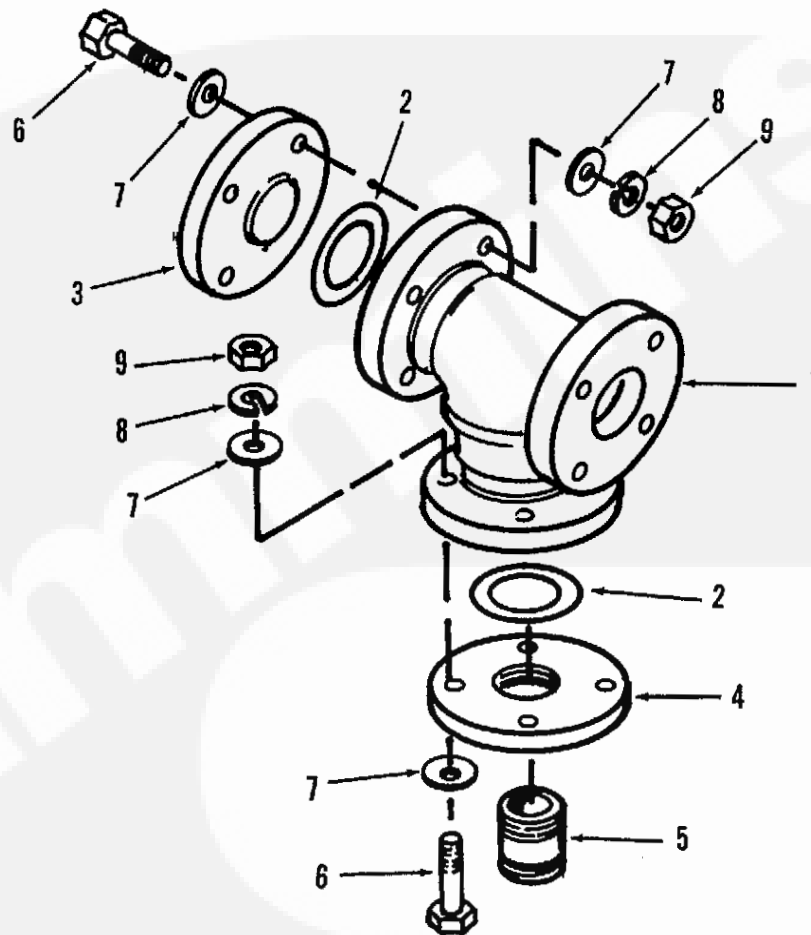
Heat Exchanger



Heat Exchanger

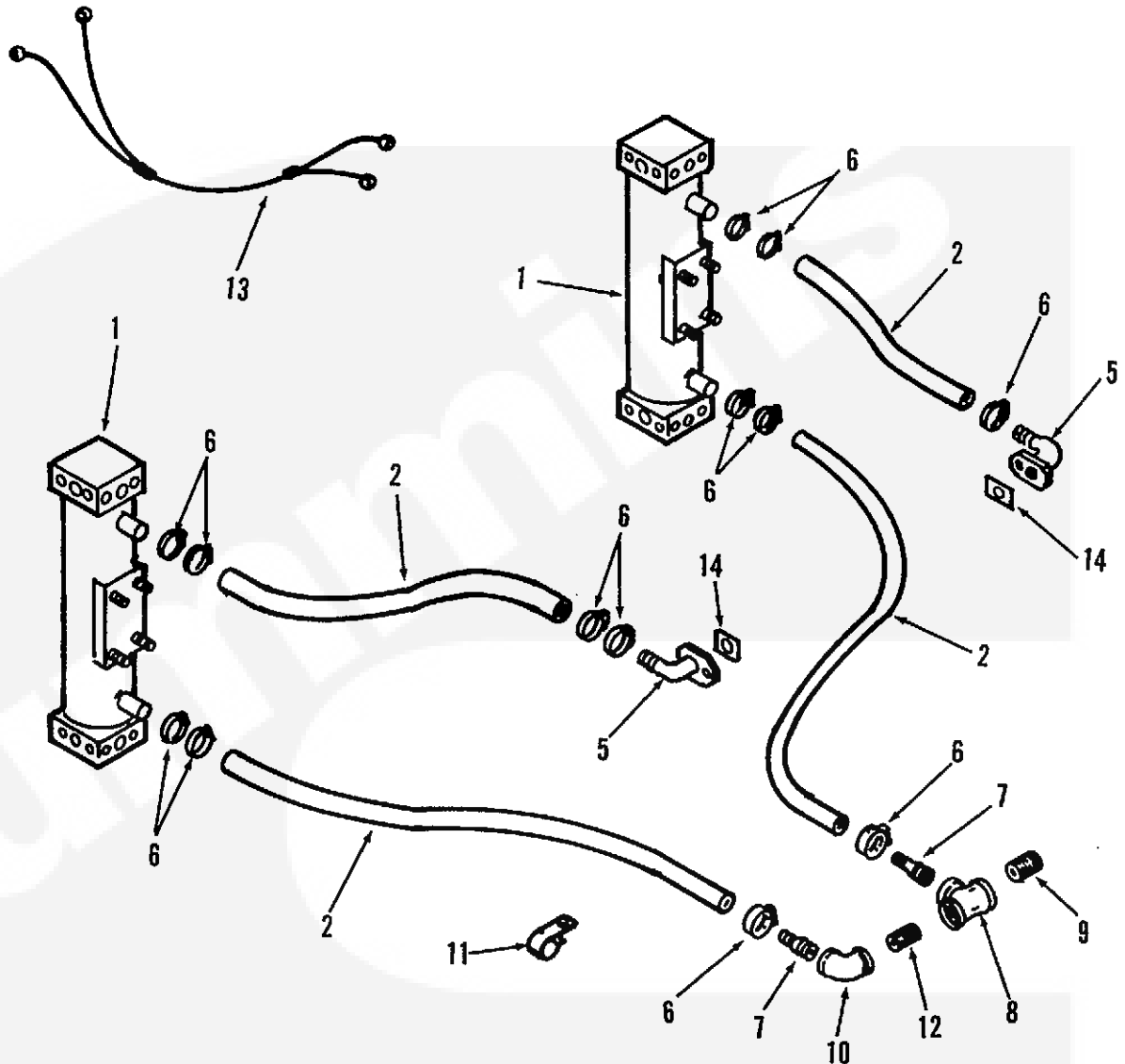
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	0130-3772	1	Heat Exchanger	33	0332-1389	12	Tie, Cable
2	1130-3773	1	Elbow - Outlet, Heat Exchanger	34	0332-2634	4	Clamp-J
3	0130-3774	1	Manifold - Inlet, Heat Exchanger	35	0130-3592-02	1	Guard - Radiator
4	0307-2711	1	Valve - Solenoid (24V)	36	0130-3592-01	1	Guard - Radiator
6	0155-0899	1	Flange - Companion	37	0130-3769	1	Panel, Top - Heat Exchanger
7	0505-0103	2	Nipple (2-1/2" NPT x 2-1/2")	38	0130-3767	1	Panel, Front - Heat Exchanger
8	0505-1442	1	Elbow - 90° Flange	39	0130-3770	1	Base, Heat Exchanger
9	0505-0044	1	Elbow - 90° (2-1/2" NPT)	40	0508-0051	1	Grommet
10	0155-2514	1	Gasket	41	0821-0016	15	Screw, Hex Head - Locking (5/16-18 x .750)
12	0505-1441	2	Bushing, Hex (4 NPT x 2-1/2" NPT)	42	0870-0257	6	Nut, Self Locking (5/16")
13	0155-2503	2	Gasket, Exhaust	43	0821-0029	12	Screw, Hex Head - Locking (3/8"-16 x .750)
14	0130-3765	1	Tube, Heat Exchanger Outlet	44	0821-0033	6	Screw, Hex Head - Locking (7/16-14 x .750)
15	0503-1726	2	Hose, Radiator	45	0800-0094	6	Screw, Cap Hex Head (1/2-13 x 2)
16	0503-1872-10	4	Clamp, Hose	46	0526-0219	6	Washer, Flat (1/2")
17	0130-3764	2	Tube, Heat Exchanger Inlet	47	0850-0060	6	Washer, Lock (1/2")
18	0503-1762	2	Hose, (3" ID x 8.50" LG)	48	0403-2733-01	6	Washer, Bevel (1/2")
19	0503-1763	2	Hose, (3" ID x 13.25" LG)	49	0862-0160	16	Screw, Cap Hex Head (3/4-10 x 3.25)
20	0503-1872-05	8	Clamp, Hose	50	0862-0016	6	Nut, Hex (1/2-13)
21	0130-3766	1	Tank, Expansion	51	0800-0133	4	Screw, Cap Hex Head (5/8-11 x 1.75)
22	0130-0449	1	Cap, Radiator	52	0800-0135	4	Screw, Cap Hex Head (5/8-11 x 2.25)
23	0503-1764	1	Hose, Flex (1-1/2" ID x 30" LG)	53	0526-0112	4	Washer, Flat (5/8")
24	0505-1429	2	Nipple	54	0850-0070	4	Washer, Lock (5/8")
25	0503-1872-02	2	Clamp, Hose	55	0862-0007	4	Nut, Hex (5/8-11)
26	0505-0011		Elbow, Street 1/4")	56	505-0114	1	Nipple (2.5 x 3.0 LG)
		4	DFJC, DFJD	57	0870-0281	6	Nut, Lock (3/8-16)
		6	DFJA, DFJB, DFLA, DFLB	58	0850-0079	16	Washer, Lock (3/4")
		3	DFLC, DFLD, DFMB	59	0862-0008	16	Nut, Hex (3/4-10)
27	0505-0017		Bushing - Reducer - DFMB	60	0526-0027	16	Washer, Flat (3/4")
28	0503-1620	1	Hose (.38" ID x 160" LG)	61	505-0153		Coupler, Reducer
29	0503-1418	1	Hose (.25" ID x 100 LG)			2	DFJC, DFLD
30	0502-1162		Connector, Hose			1	DFLC, DFLD, DFMB
		6	DFJA, DFJB, DFJC, DFJD, DFLA, DFLB	62	309-0635-02	2	Valve, Check - DFJA, DFJB, DFJC, DFJD, DFLA, DFLB
		4	DFMB	63	505-0376		Elbow, 3/8 x 45°
31	0505-0020	2	Bushing, Reducer (3/4 NPT x 1/4 NPT)			2	DFJA, DFJB, DFLA, DFLB
			DFJC, DFJD			1	DFLC, DFLD, DFMB
32	0503-0685		Clamp, Hose				
		7	DFJA, DFJB, DFJC, DFJD, DFLA, DFLB, DFJC, DFLD				
		5	DFMB				

Thermostatic Valve



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	0309-0607	1	Valve - Thermostatic	6	0800-0138	8	Screw, Hex Head (5/8-11 x 3)
2	0155-2514	2	Gasket - Flange	7	0526-0112	16	Washer, Flat (5/8)
3	0505-1440	1	Flange - Blind	8	0850-0070	8	Washer, Lock (5/8)
4	0155-0899	1	Flange, Companion	9	0862-0007	8	Nut, Hex (5/8-11)
5	0505-0103	1	Nipple, Pipe (2-1/2 NPT x 2-1/2)				

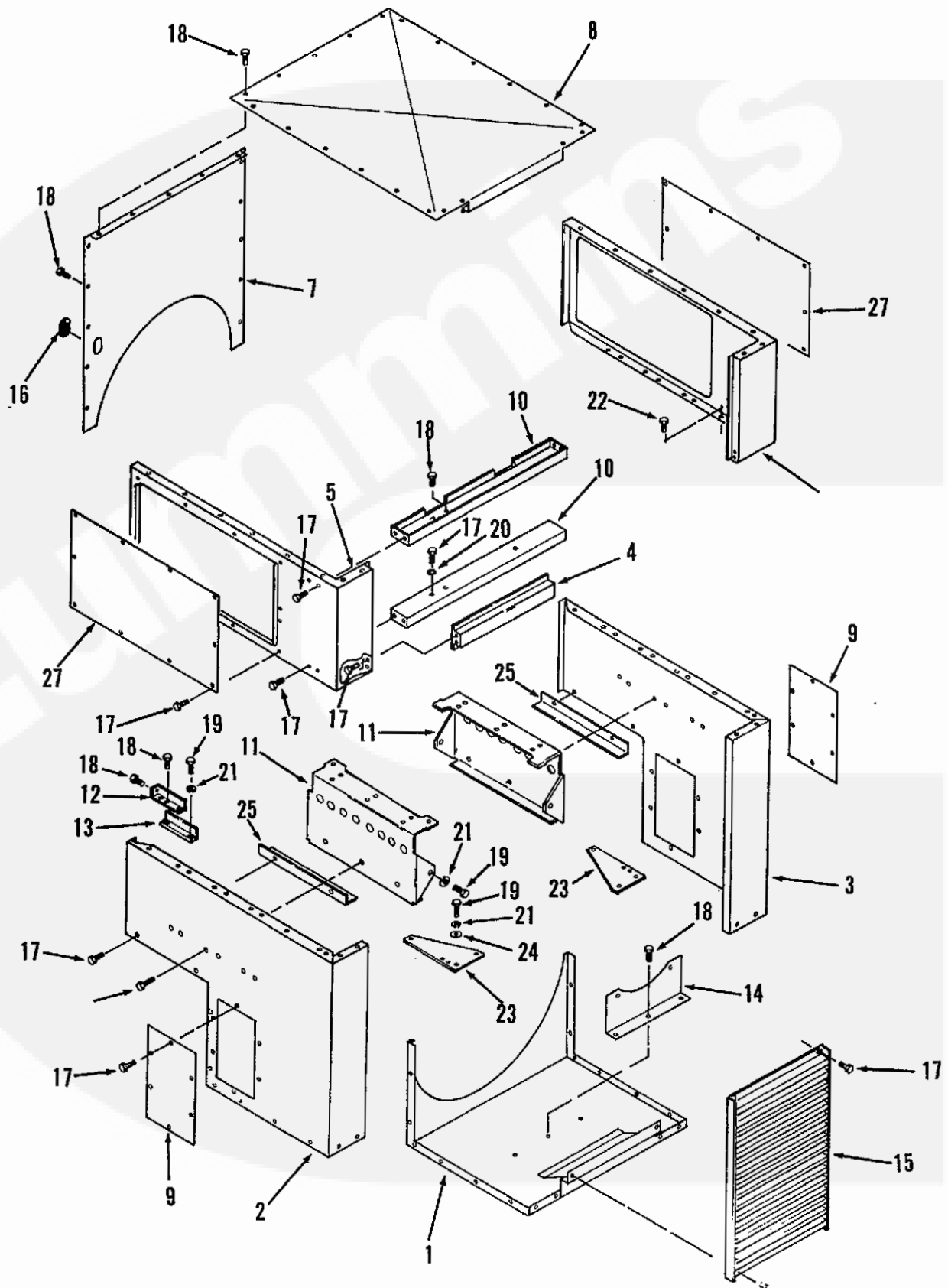
Water Heater



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1			Heater, Coolant (4000 Watt) (Includes Thermostat)
	333-0512-01	2	208, 240, 480 Volt
	333-0512-02	2	120 Volt
	333-0468	1	Thermostat, Heater (Service Replacement)
2	503-1779		Hose, Radiator (1" ID) (Order by the foot)
3	130-3866	2	Bracket, Heater Mounting
4	870-0212	8	Nut, Hex - Locking (1/4-28)
5	130-3692	2	Adapter, Heater Hose

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
6	503-0189	12	Clamp, Hose
7	505-0759	2	Nipple Combination
8	505-1430	1	Tee, Reducing (1-1/4 x 1-5/8)
9	505-0177	1	Nipple, Pipe (1-1/4 x 1-5/8)
10	505-0041	1	Elbow, 90° (1")
11	518-0548-02	2	Clip
12	505-0004	1	Nipple - Pipe (1" x 1-1/2")
13	338-2760-01	1	Wiring Harness, Heater
	338-2760-02	1	Wiring Harness, Heater
14	509-0283-01	2	Seal, Rectangular Ring

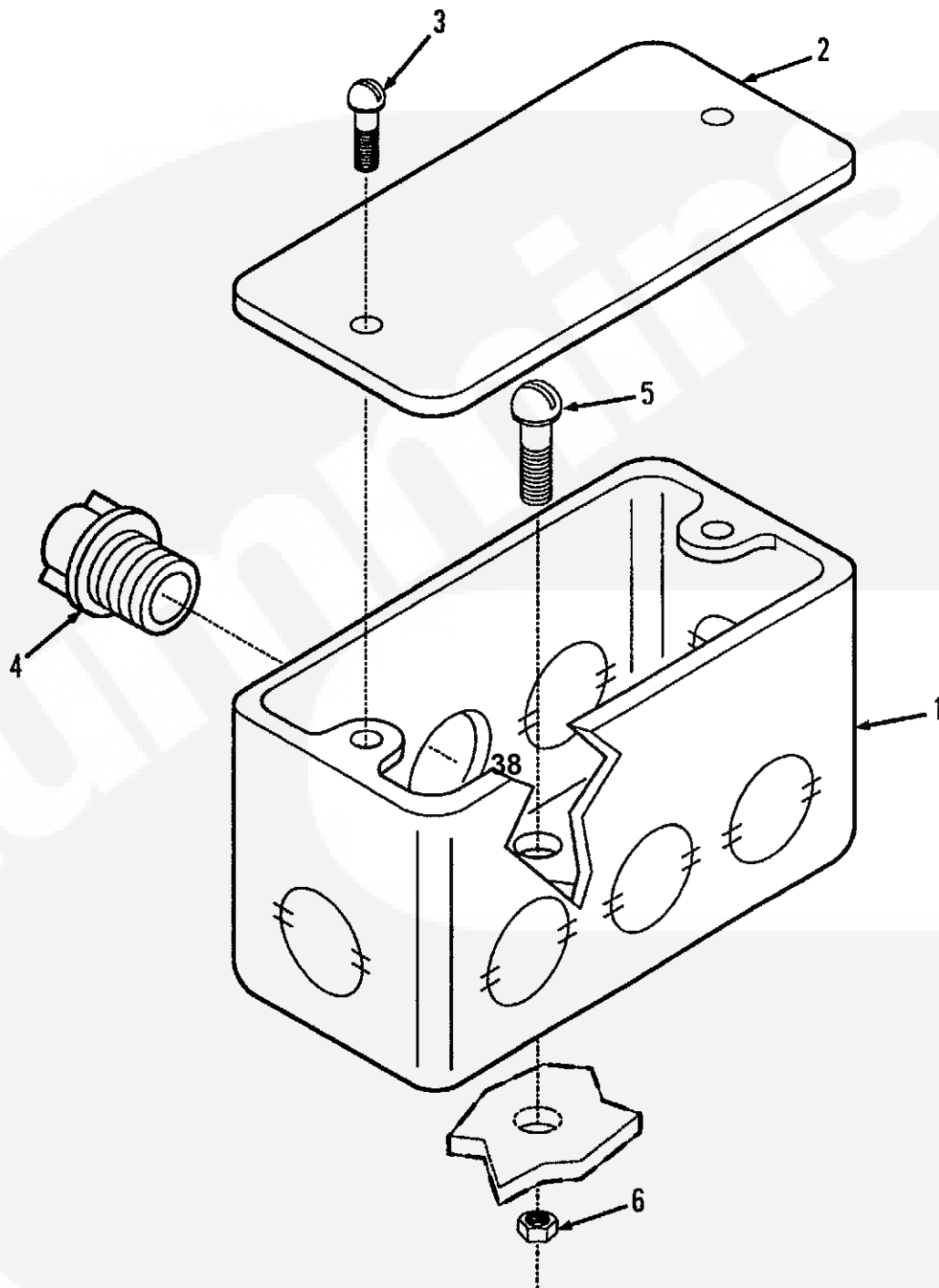
Control Housing



Control Housing

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1			Panel - Bottom	17	821-0010		Screw, Locking - Hex Head (1/4 x .50)
	319-1809-03	1	DFJA, DFJB, DFJC, DFLD			29	DFLA, DFLB, DFJC, DFLD, DFMB
	319-1809-04		DFLA, DFLB, DFJC, DFLD, DFMB			33	DFJA, DFJB, DFJC, DFJD
2	319-1085-01	1	Panel, Right Side	18	821-0014	80	Screw, Locking - Hex Head (5/16-18 x .50)
3	319-1085-02	1	Panel, Left Side	19	800-2086		Screw, Hex Head (M10 x 1.50 x 25)
4	319-1087	1	Panel - Front			15	DFJA, DFJB, DFJC, DFJD
5	319-1086-01	1	Panel - Right Side - Top			11	DFLA, DFLB, DFJC, DFLD, DFMB
6	319-1086-02	1	Panel - Left Side - Top	20	856-0006	2	Washer, EIT Lock (1/4)
7			Panel - Rear	21	850-2010		Washer, Lock (M10)
	319-1089	1	DFJA, DFJB, DFJC, DFJD			15	DFJA, DFJB, DFJC, DFJD
	319-1088	1	DFLA, DFLB, DFJC, DFLD, DFMB			11	DFLA, DFLB, DFJC, DFLD, DFMB
8	319-1093	1	Cover - Top	22	821-0016	8	Screw, Locking - Hex (5/16-18 x .75)
9	319-0881	2	Cover, Side - Lower	23	319-1203	2	Gusset
10	319-0879	2	Support - Control Box	24	526-0141		Washer, Flat (3/8)
11			Bracket, Saddle			10	DFJA, DFJB, DFJC, DFJD
	319-1096	2	DFJA, DFJB, DFJC, DFJD			6	DFLA, DFLB, DFJC, DFLD, DFMB
	319-1097	2	DFLA, DFLB, DFJC, DFLD, DFMB	25	319-0883	2	Angle - Housing - DFJA, DFJB, DFJC, DFJD
12	319-1090	1	Angle - Support	26	870-0281	6	Nut, Locking - Hex (3/8-16) DFLA, DFLB, DFJC, DFLD, DFMB
13	319-1118	1	Angle - Support	27	319-1094	2	Cover, Box
14			Bracket - Panel				
	319-1091		DFJA, DFJB, DFJC, DFJD				
	319-1092	1	DFLA, DFLB, DFJC, DFLD, DFMB				
15	234-0908	1	Grille				
16	508-1057	1	Grommet				

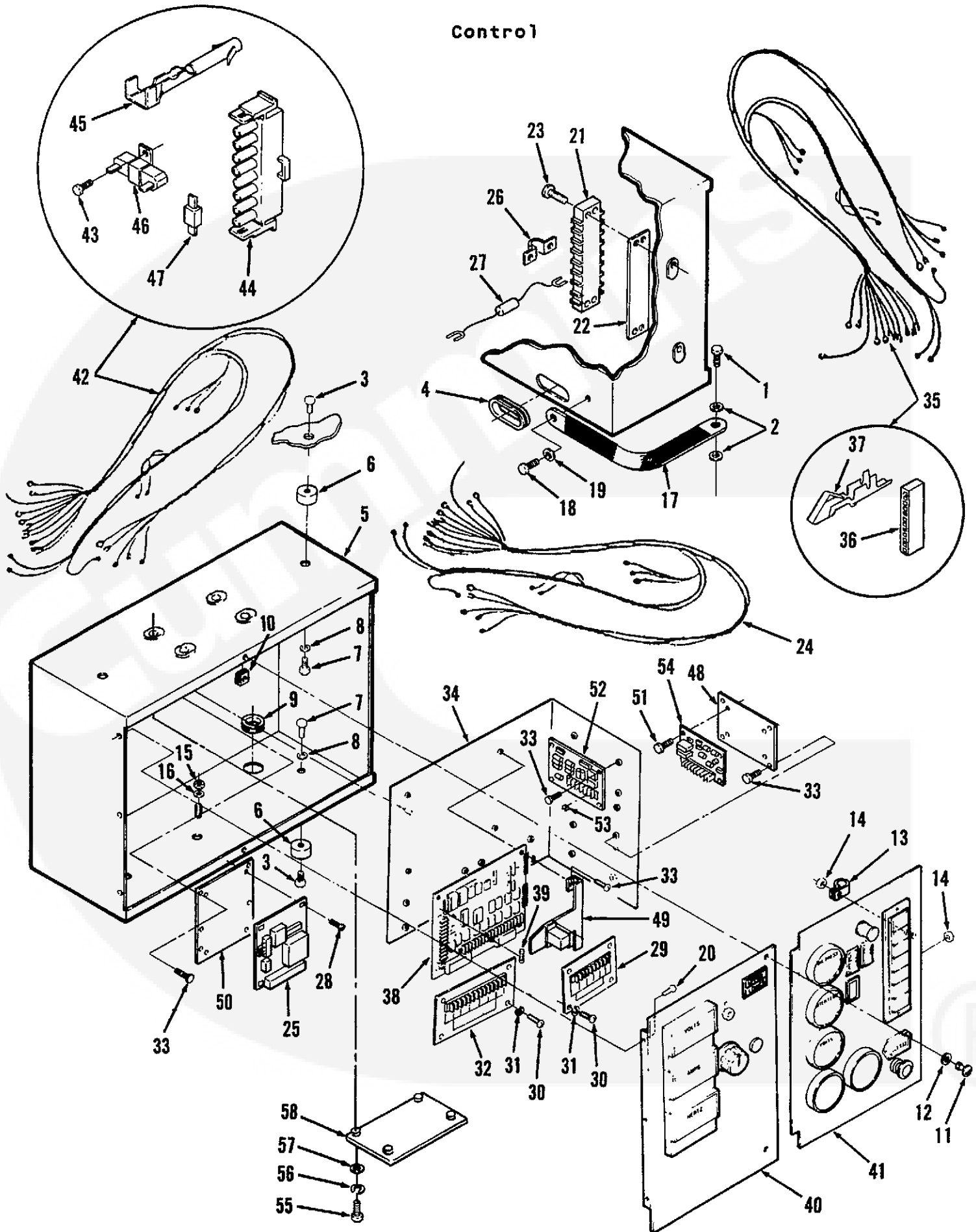
**Junction Box
(Engine Coolant Heater)**



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	330-0005	1	Box, Junction	4	331-0027	2	Connector, Knockout
2	330-0004	1	Cover	5	813-0105	2	Screw, Machine - Round Head (#10-32 x 1")
3	812-0079	2	Screw, Sheet Metal - Round Head (#8-32 x 1/2")	6	870-0131	2	Nut, Hex - With EIT (#10-32)



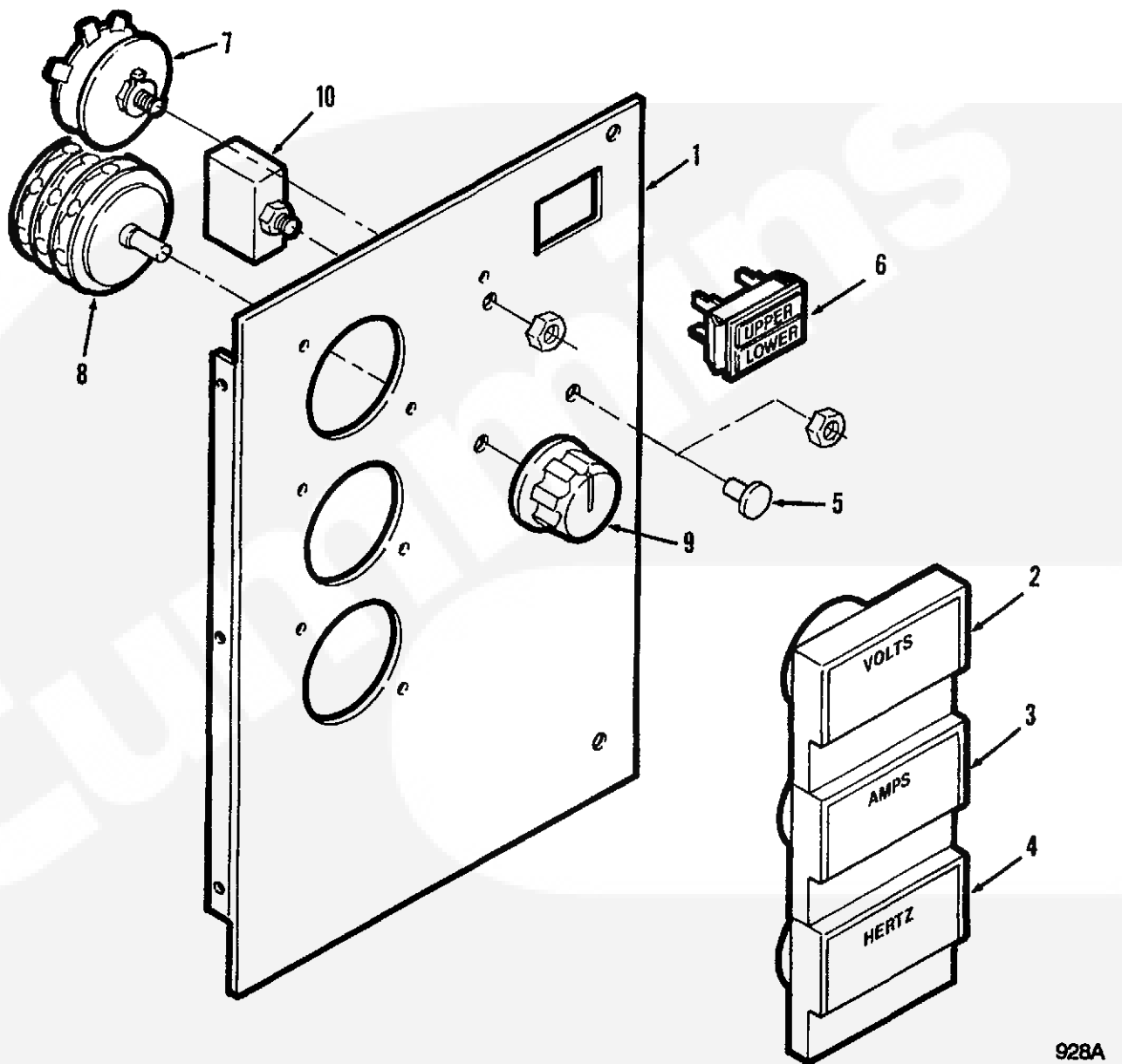
Control



Control

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	821-0018	1	Screw, Locking - Hex Washer Head (1/4-20 x 5/8)	26	332-1043	1	Jumper, Terminal (TB21-22 to 21)
2	856-0006	2	Washer, Lock - EIT (1/4")	27	350-1222	1	Resistor (TB21-32 to 26)
3	821-0014	4	Screw, Self-Locking - Hex Washer Head (5/16-18 x 1/2")	28	815-0218	4	Screw, Machine - Round Head - Cross Recessed with IT (#6-32 x 1")
4	508-0051	1	Grommet (2" Hole)	29	300-2856	1	Board, Printed Circuit - Alarm Relay (12 Light Control) (A14)
5	301-8065	1	Box, Control	30	812-0063	8	Screw, Machine - Round Head (#6-32 x 1/2")
6	402-0527	4	Isolator, Vibration	31	853-0003	8	Washer, Lock - ET (#6)
7	800-0045	4	Screw, Cap - Hex Head (5/16-18 x 3/8")	32	300-2863	1	Board, Printed Circuit - Alarm Relay (7 and 12 Light Control) (A13)
8	850-0045	4	Washer, Lock - Spring (5/16")	33	815-0544	18	Screw, Machine - Round Head - Cross Recessed with IT (#6-32 x 1/2")
9	508-0001	1	Grommet (1-1/16" Hole)	34	301-8851	1	Bracket, Mounting
10	406-0332	2	Receptacle, Fastener	35	338-2277	1	Harness, Wiring - DC (Includes Connector Housing and Contact Pins) (DC Door Assembly to Engine Monitor)
11	406-0333	2	Stud, Fastener	36	323-1308	1	Housing, Connector - 12 Place (J4)
12	406-0334	2	Washer, Stud Retainer	37	323-1302	12	Pin, Contact
13	332-0052	2	Clip, Wire	38	300-2810	1	Monitor, Engine (Includes Fuses) (A11)
14	870-0131	3	Nut, Hex - With ET (#10-32)		300-2812	1	7 Light Control
15	871-0015	1	Nut, Hex (1/4-20) Grounding Stud	39			12 Light Control
16	853-0013	1	Washer, Lock - ET (1/4") Grounding Stud				Fuse
17	337-0049	1	Strap, Ground		321-0270	2	20 Amp (F1, F2)
18	800-0024	1	Screw, Cap - Hex Head (5/16-18 x 1/2")		321-0231	1	15 Amp (F3)
19	856-0008	1	Washer, Lock - EIT (5/16")		321-0094	2	5 Amp (F4, F5)
20	821-0004	8	Screw, Self-Locking - Hex Washer Head (#10-32 x 5/16")	40		1	Door Assembly, Control - AC (See Separate Page for Components)
21	332-0607	1	Block, Terminal - 12 Place (TB21)	41		1	Door Assembly, Control - DC (See Separate Page for Components)
22	332-2723	1	Strip, Marker - 12 Place	42	338-2525	1	Harness, Wiring - Engine to Control
23	812-0065	2	Screw, Machine - Round Head (#6-32 x 5/8")	44			Housing, Connector
24			Harness, Wiring		323-1304	1	6 Place (J2)
	338-2278	1	AC Door Assembly to TB21 Terminal Block (Includes TB21 Terminal Block)		323-1306	1	8 Place (J1)
	338-1835	1	Alarm Relay (8 Wire) (A13 to A11TB1 and TB2)		323-1200	14	Spec E
	338-1836	1	Alarm Relay (5 Wire) (A14 to A11TB2)	48	319-0754	1	Plate, Mounting
	338-1904	1	Time Delay Start/Stop (A15 to A11TB1) Electronic Overspeed (A16 to A11TB1-1, -5, -10 and AUX-P2, P3)	49		1	Relay, Run (See Separate Page for Components)
	338-2529	1	501-1200 KW Sets Regulator, Voltage (VR21)	50	319-0652	1	Plate, Mounting, (Used With Model MX321 Voltage Regulator)
25			Used Without Permanent Magnet Exciter Generators (Model SX440) (Also available as Newage Part Number E000-24030)	51	812-0084	4	Screw, Machine - Round Head (#8-32 x 1")
	305-0824	1	Used With Permanent Magnet Exciter Generators (Model MX321) (Also Available as Newage Part Number E000-23210)	52			Board, Printed Circuit - Time Delay - Start/Stop/Preheat (A15)
					300-2899	1	Without Preheat
					300-2900	1	With Preheat
				53	332-2957	1	Terminal, Tab (Double) (A15TB1-7)
				54	305-0818-02	1	Board, Printed Circuit - Electronic Overspeed (A16)

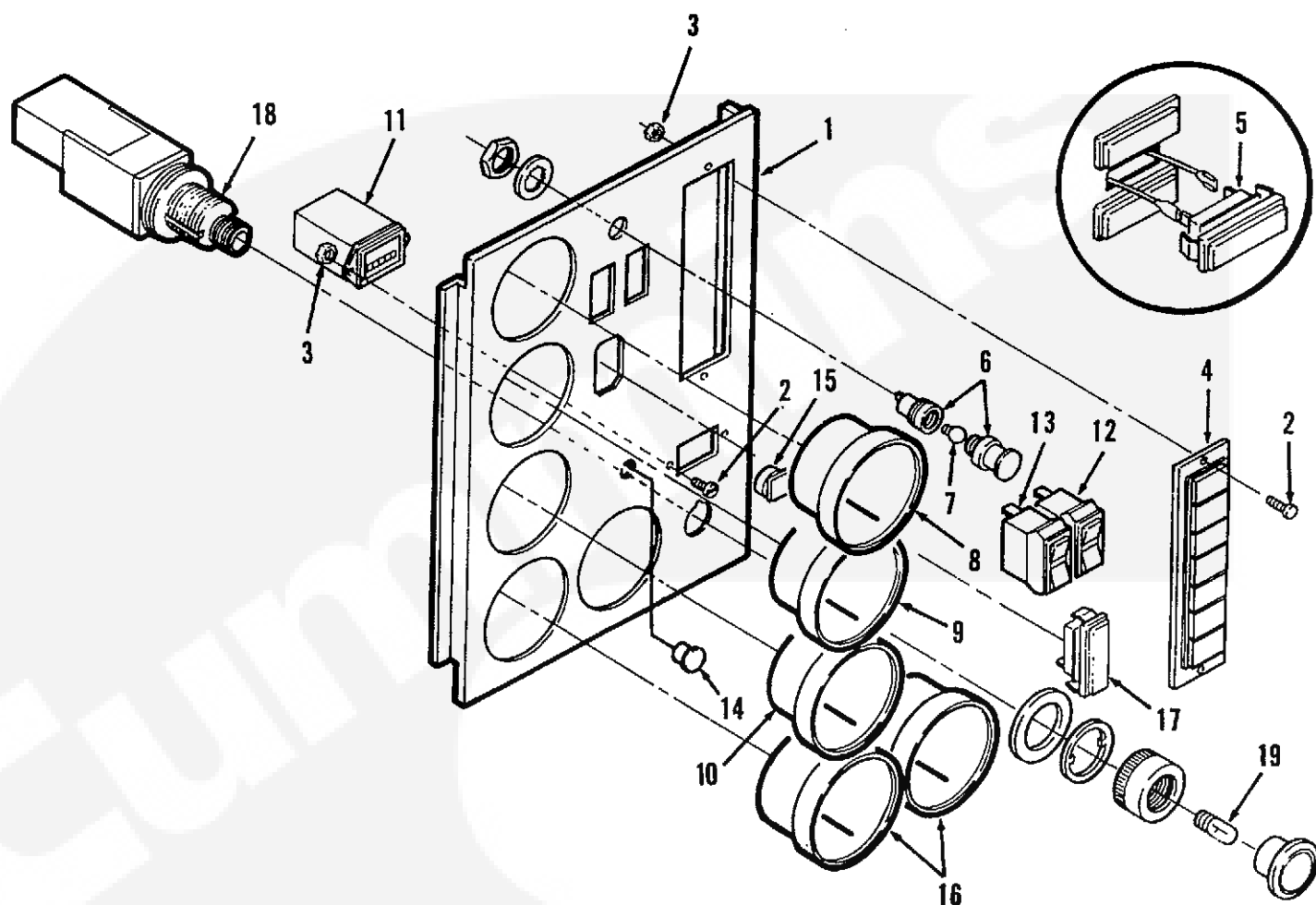
AC Control Door Assembly



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	301-9054-03	1	Door, Control - AC Doors Without Round Meter Holes
	301-9054-02	1	Doors With Three Round Meter Holes
2	302-1148	1	Voltmeter (M21) 0-300/600
	302-1753	1	0-750
3	302-1798	1	Ammeter (M22) 0-1000/2000
	302-1799	1	0-1500/3000
	302-1800	1	0-2000/4000
	302-1980	1	0-3000/6000
4	302-1720	1	Meter, Frequency (M23)
5	517-0131	1	Plug, Hole (3/8" Hole)
6	322-0363	1	Light, Indicator - Upper/Lower Scale (DS21, DS22)

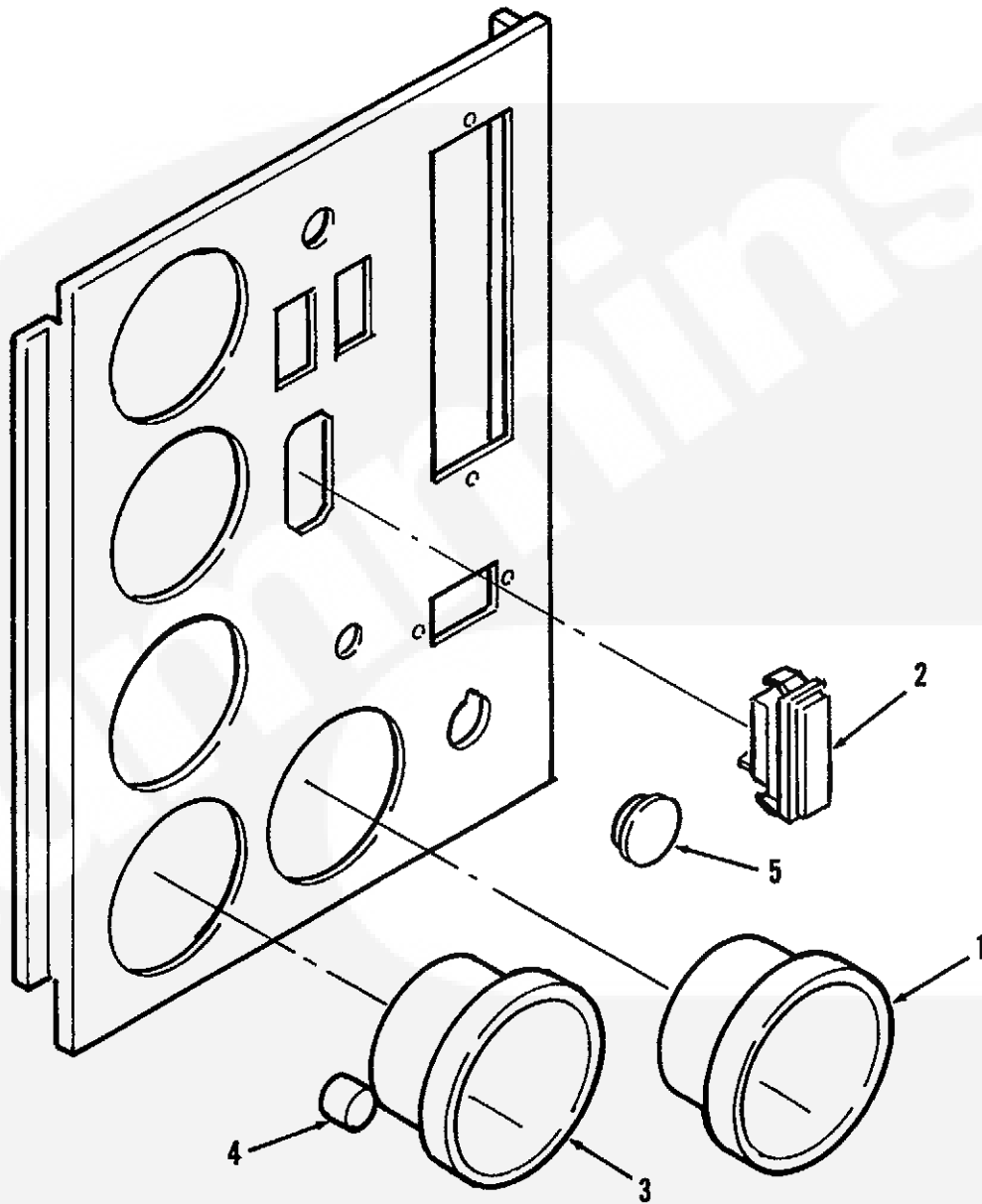
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	303-0261	1	Potentiometer - Voltage Adjust (R21) 1.5K Ohms (Used With Model SX440 Voltage Regulator)
	303-0285	1	5K Ohms (Used With Model MX321 Voltage Regulator)
8	308-0882	1	Switch, Rotary - Voltmeter/Ammeter (Knob Not Included) (S21)
9	303-0032	1	Knob, Rotary Switch
10	320-1688-01	1	Breaker, Circuit (CB21) Without Auxiliary Contacts
	320-1688-02	1	With Auxiliary Contacts

DC Control Door Assembly



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	9	193-0351	1	Gauge, Water Temperature (M12)
	301-9055-01	1	Doors With Five Round Gauge Holes	10	302-1642	1	Voltmeter (M13)
2	815-0385	4	Screw, Machine - Round Head (#6-32 x 1/2")	11	302-0885	1	Meter, Time Totalizing (M14)
3	870-0183	4	Nut, Hex - With ET (#6-32)	12	308-0785	1	Switch, Rocker - Restart/Preheat/ Panel Light (S11)
4			Light Assembly, Indicator (Includes Wiring Harness and Connector Housing) (A12)	13	308-0784	1	Switch, Rocker - Run/Stop/Remote (S12)
	322-0359-02	1	7 Light Assembly	14	517-0131	1	Plug, Hole (3/8" Hole)
	322-0360-02	1	12 Light Assembly	15	193-0250	2	Resistor (Mounted on Oil Pressure and Water Temperature Gauges) (R11, R12)
5	322-0369-03	1	Light, Indicator - Replacement	16	302-1723	2	Ammeter - Blank Scale
6	322-0361	1	Light, Panel (DS11)	17	301-6257	1	Switch - Blank
7	322-0017	1	Bulb, Panel Light - Replacement	18	308-0853	1	Switch, Pushbutton - Emergency Stop (Includes Bulb) (S14)
8	193-0352	1	Gauge, Oil Pressure (M11)	19	322-0223	1	Bulb, Pushbutton Switch - Replacement)

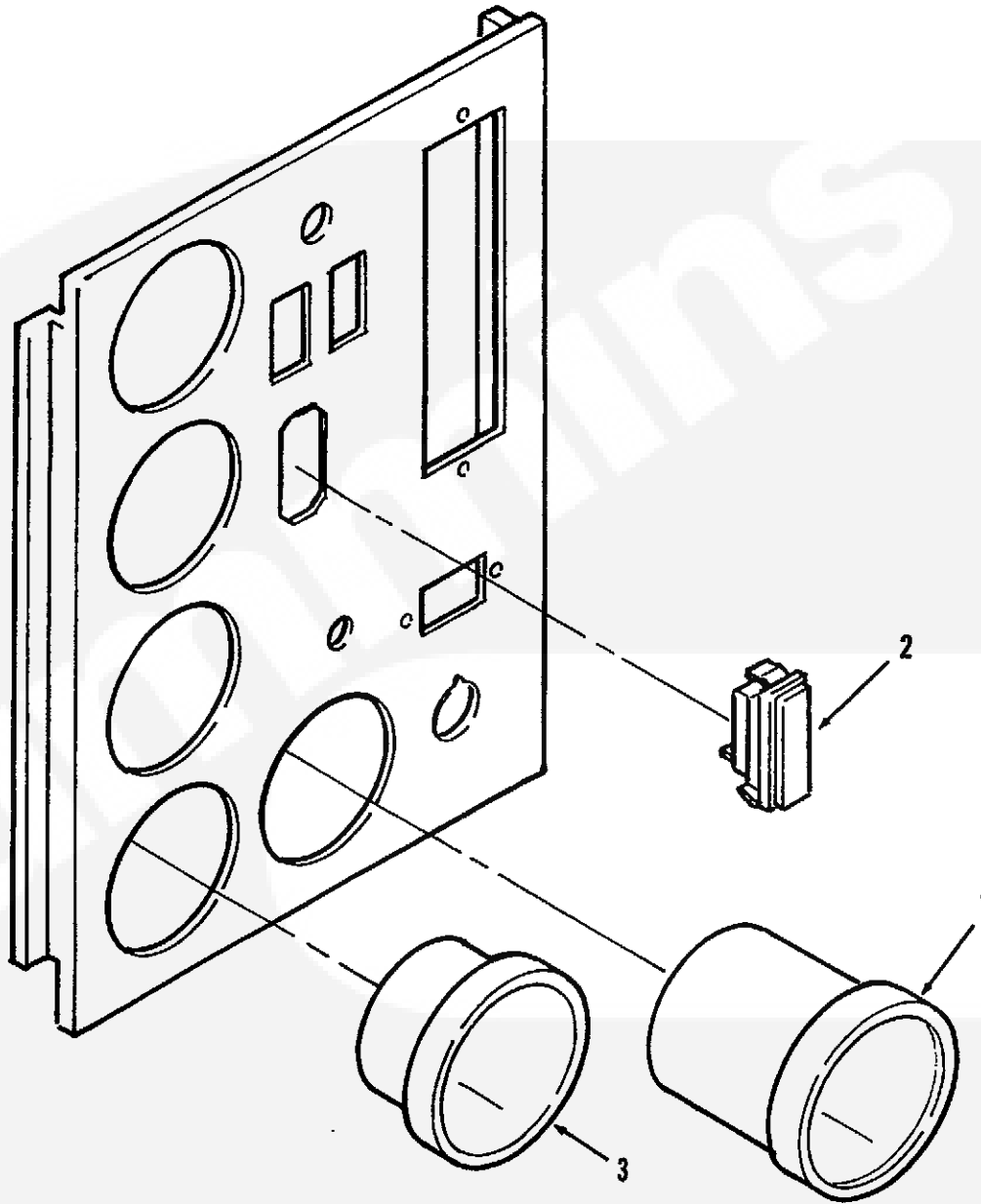
Oil Temperature Gauge



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	302-1723	1	Ammeter - Blank Scale
2	301-6257	1	Switch - Blank
3	193-0330	1	Gauge, Temperature - Oil (M15)

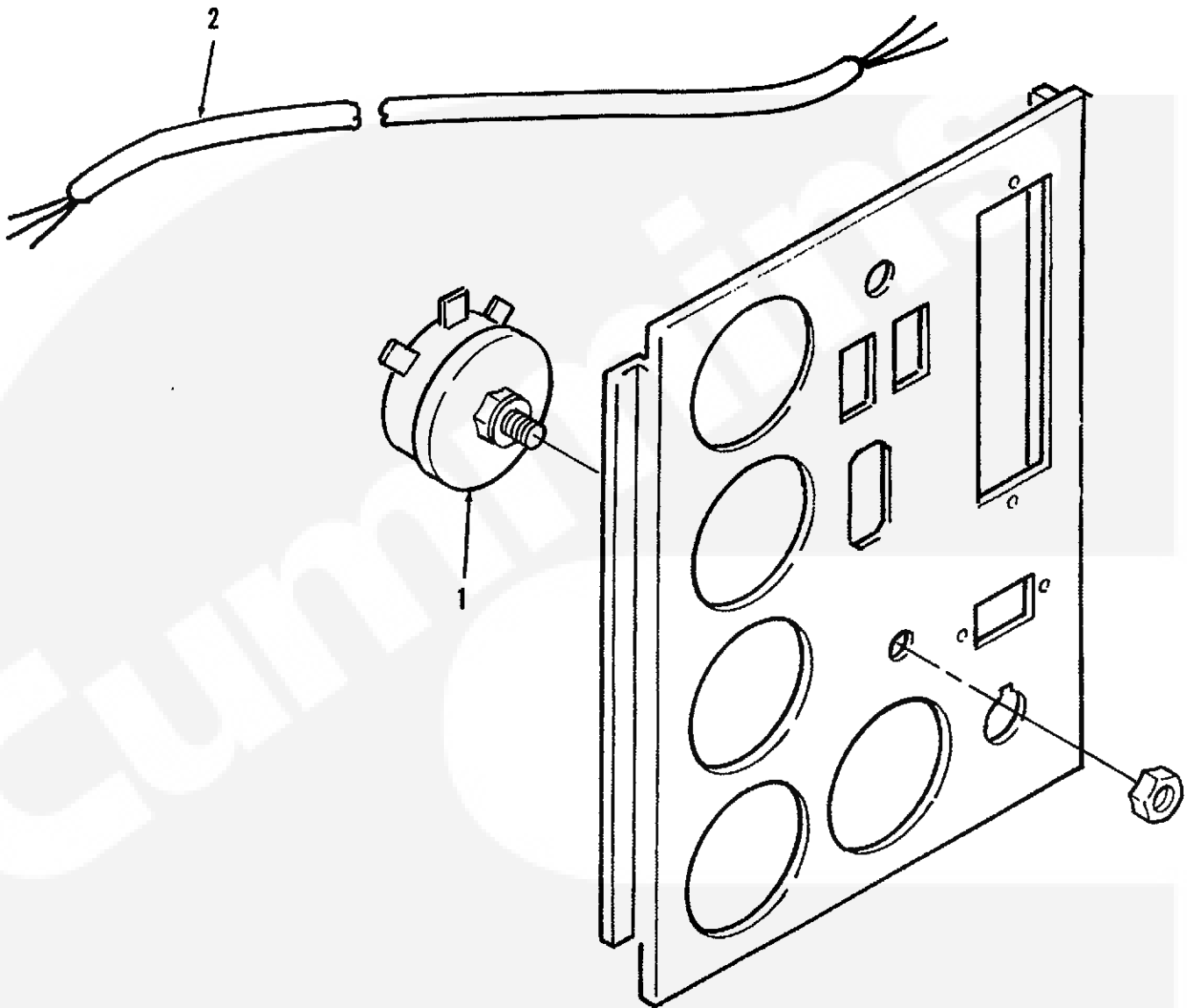
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
4	193-0250	1	Resistor, Gauge (R13)
5	517-0137	1	Plug, Hole (7/8" Hole)

Tachometer



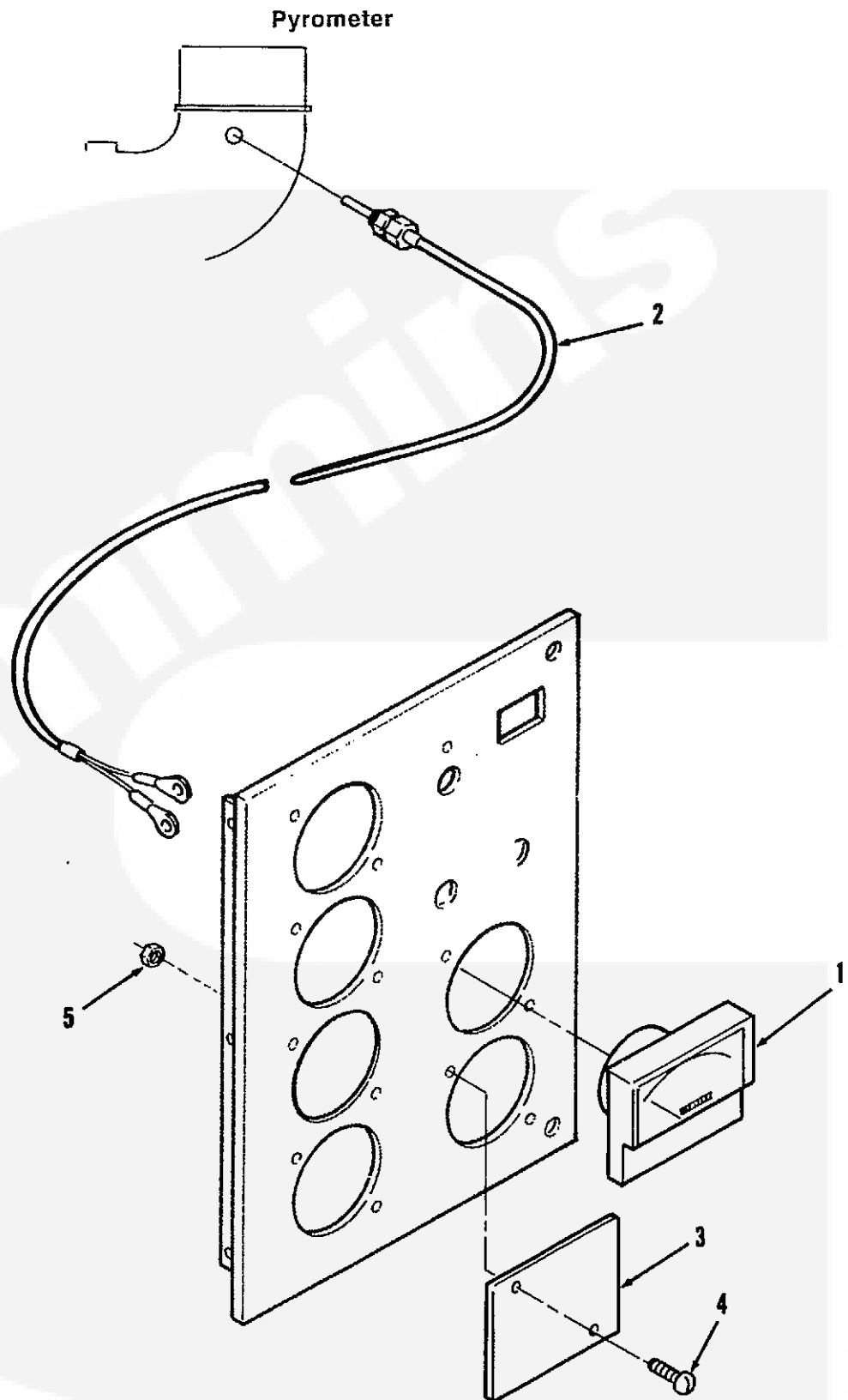
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	302-1873-01	1	Tachometer (0-4000 RPM) (M16)				
2	301-6257	1	Switch - Blank				
3	302-1723	1	Ammeter - Blank Scale				

Potentiometer
(Speed Adjusting)



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	151-0402	1	Potentiometer - Speed Adjusting - Governor Controller (No Resistor- Barber Colman)

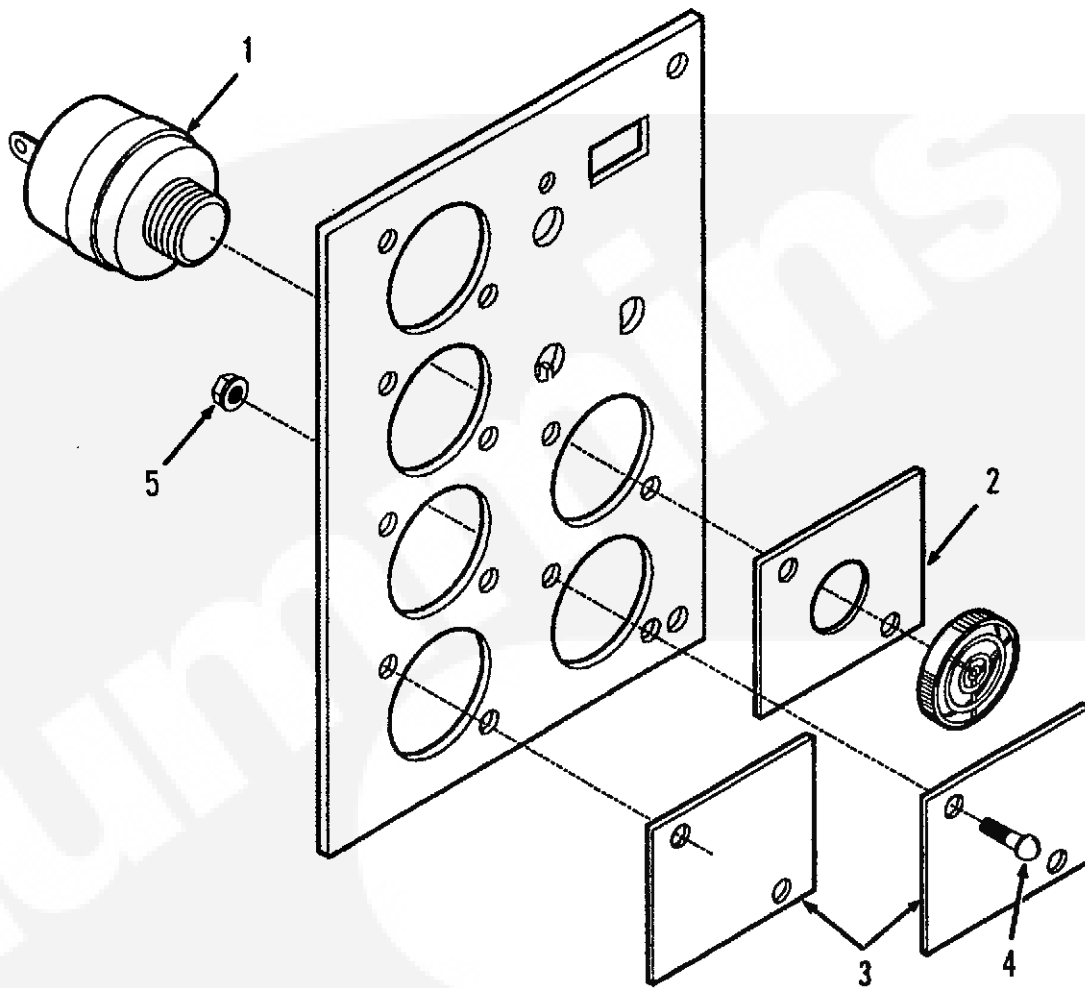
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	303-0280		Cable, Shield (W12OK Res - Barber Colman)
	303-0223-05		Cable, Shielded
2	334-0116	1	Cable, Shielded (10')



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	302-1874	1	Pyrometer (M26)
2	193-0299	1	Lead, Thermocouple
3	301-9993	2	Plate, Cover

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
4	815-0385	4	Screw, Machine - Round Head (#6-32 x 1/2")
5	870-0183	4	Nut, Hex - With ET (#6-32)

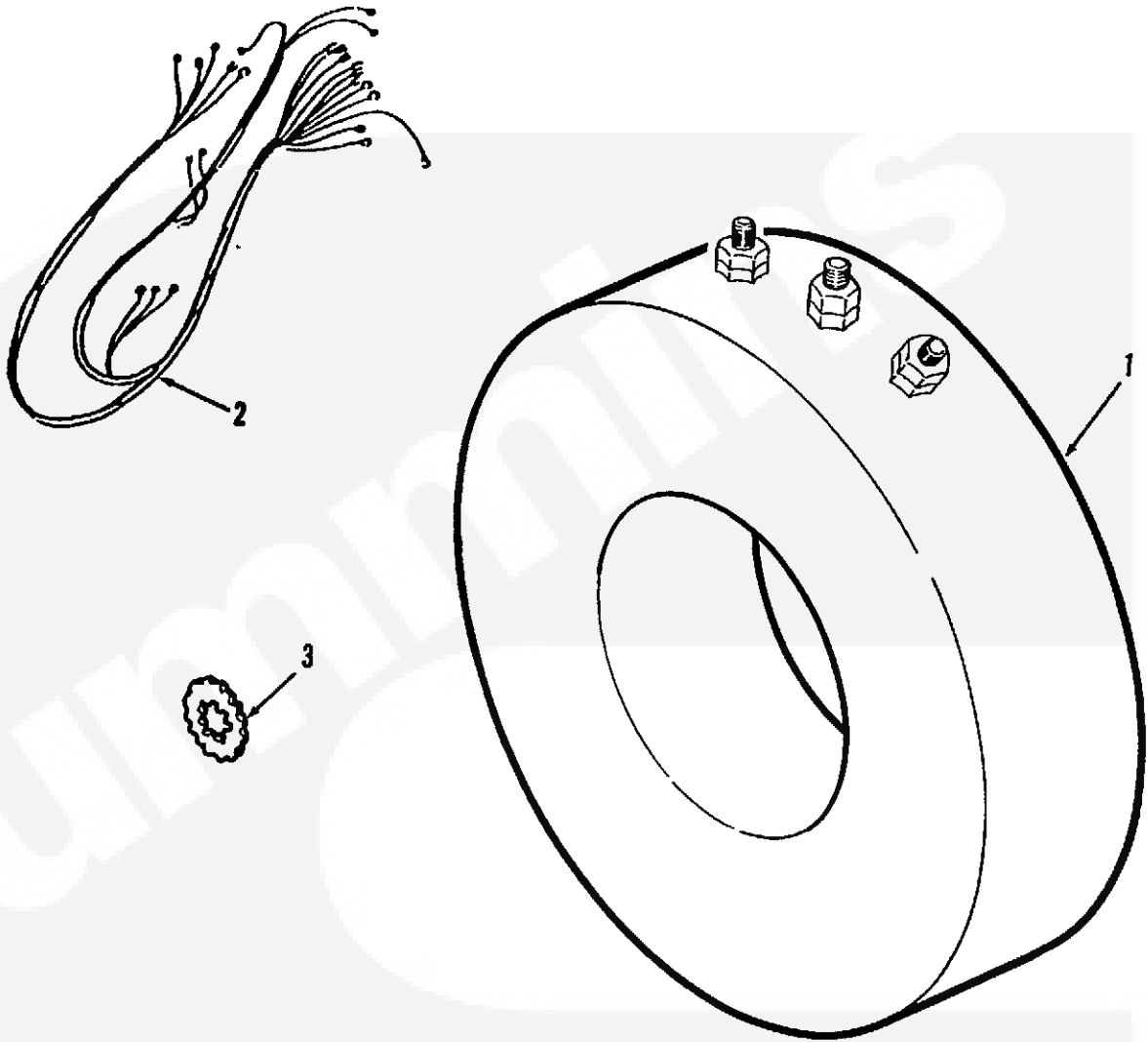
Audible Signal



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	333-0133	1	Signal, Audible (DS2)
2	319-0898	1	Plate, Mounting
3	301-9993	2	Plate, Cover

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
4	815-0385	6	Screw, Machine - Round Head (#6-32 x 1/2")
5	870-0183	6	Nut, Hex - With ET (#6-32)

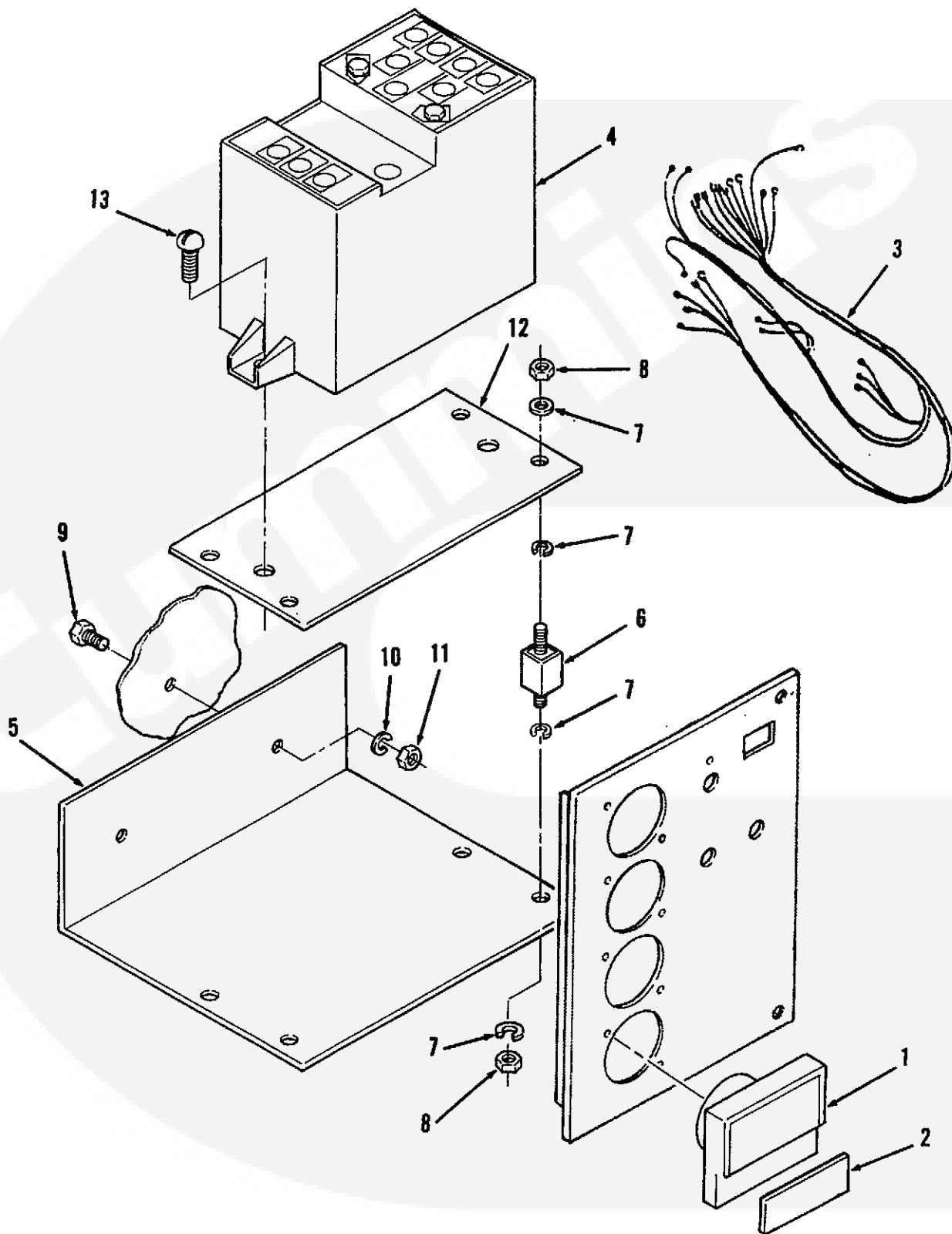
Current Transformer



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1			Transformer, Current (CT21, CT22, CT23)
	302-1794-12	3	Ratio 1000-2000/5
	302-1794-13	3	Ratio 1500-3000/5

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	302-1794-14	3	Ratio 2000-4000/5
	302-1794-15	3	Ratio 3000-6000/5
2	338-2532	1	Harness, Wiring - Current Transformer
3	856-0008	2	Washer, Locking - EIT (5/16") (Grounding Wires)

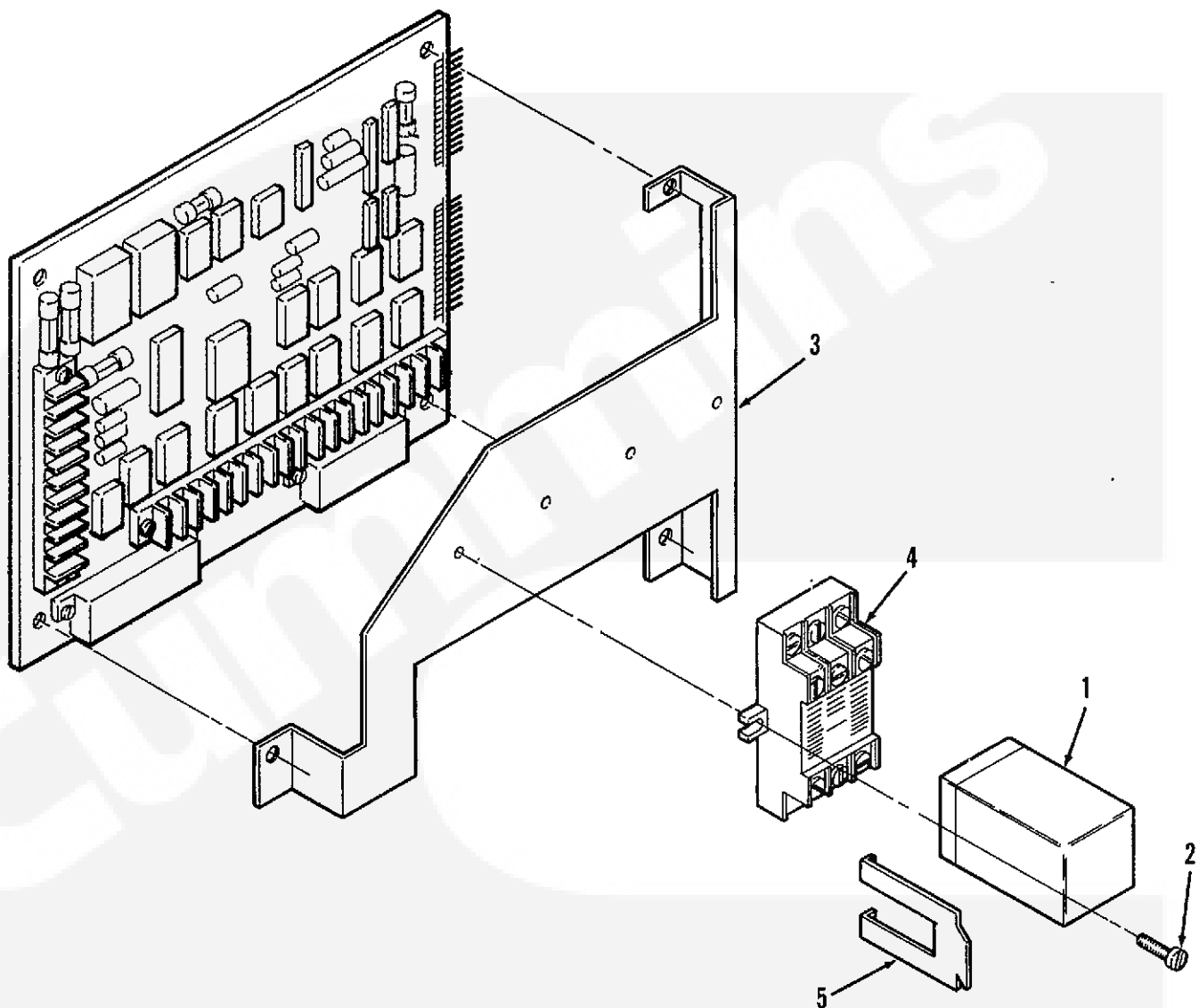
Wattmeter



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)		302-1833-04	1	1-1/2 Element, Single Phase, Three Wire
2			Dial, Wattmeter		302-1833-05	1	2 Element, Three Phase, Three Wire
	302-1721-16	1	0-800 KW Rating				
	302-1721-17	1	0-1200 KW Rating	5	301-6987	1	Bracket, Mounting
	302-1721-18	1	0-1500 KW Rating	6	402-0354	4	Mount, Shock
	302-1721-19	1	0-2000 KW Rating	7	856-0002	16	Washer, Lock - ET (#8)
3			Harness, Wiring - Wattmeter	8	860-0008	8	Nut, Hex (#8-32)
	338-2478	1	120/240 Volt, "DELTA"	9	821-0017	2	Screw, Locking - Hex Washer Head (5/16-18 x 1/2")
	338-1936	1	Reconnectable WYE, Three Phase	10	850-0045	2	Washer, Lock - Spring (5/16")
	338-2479	1	120/240 Volt "SINGLE PHASE", Three Phase	11	862-0014	2	Nut, Hex (5/16-18)
4			Transducer, Watts (A21)	12	319-0030	1	Plate, Mounting
	302-1833-01	1	2-1/2 Element, Three Phase, Four Wire	13	813-0102	2	Screw, Machine - Round Head (#10-32 x 5/8")

Run Relay



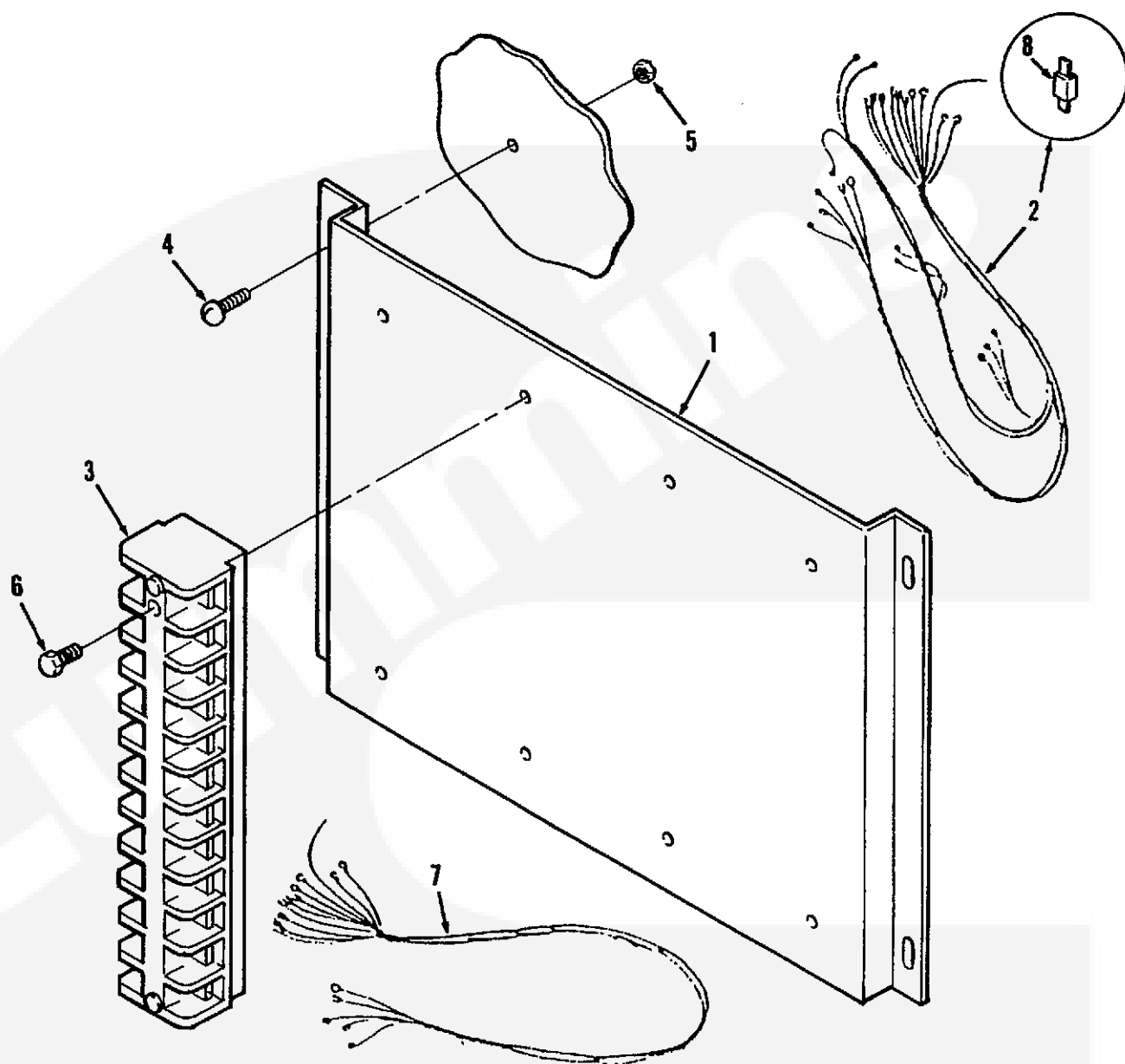
577B

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

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
5	307-1987	2	*Holddown, Relay
6	815-0544	3	Screw, Round Head w/IT Lock Washer (#6-32 x 1/2")

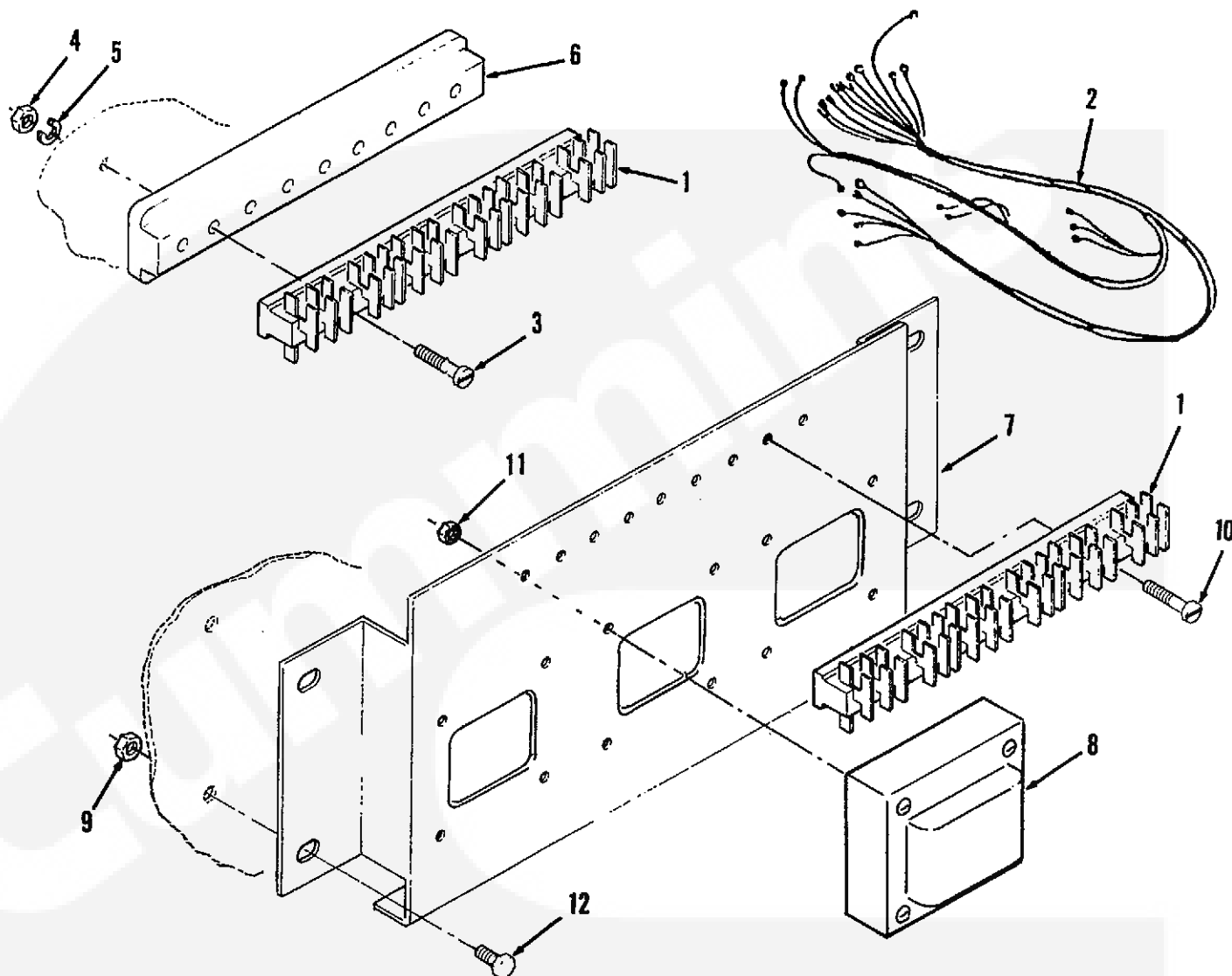
* - Quantities listed are for one mounted relay.

Paralleling Interconnect Terminal Blocks



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	301-9715	1	Panel, Mounting With Provision for Three Terminal Blocks (7-1/2" x 9")	3	332-2315	1	Blocks (Includes Four Terminal Blocks)
	319-1137	1	With Provision for Four Terminal Blocks (7-1/2" x 12")	4	813-0100	4	Block, Terminal (Quantity Used As Required)
2		1	Harness, Wiring - Paralleling (TB11 to A11, VR21, CB21)	5	870-0131	4	Screw, Machine - Round Head (#10-32 x 1/2")
	338-2030	1	Used with Three Terminal Blocks (Includes Three Terminal Blocks and Rectifier)	6			Nut, Hex - With ET (#10-32) Screw, Machine - Round Head (#8-32 x 1")
	338-2590	1	Used with Four Terminal		812-0084	6	Used with Three Terminal Blocks
					812-0084	8	Used with Four Terminal Blocks
				7	338-2172	1	Harness, Wiring - Governor (Shielded)
				8	357-0030	1	Rectifier

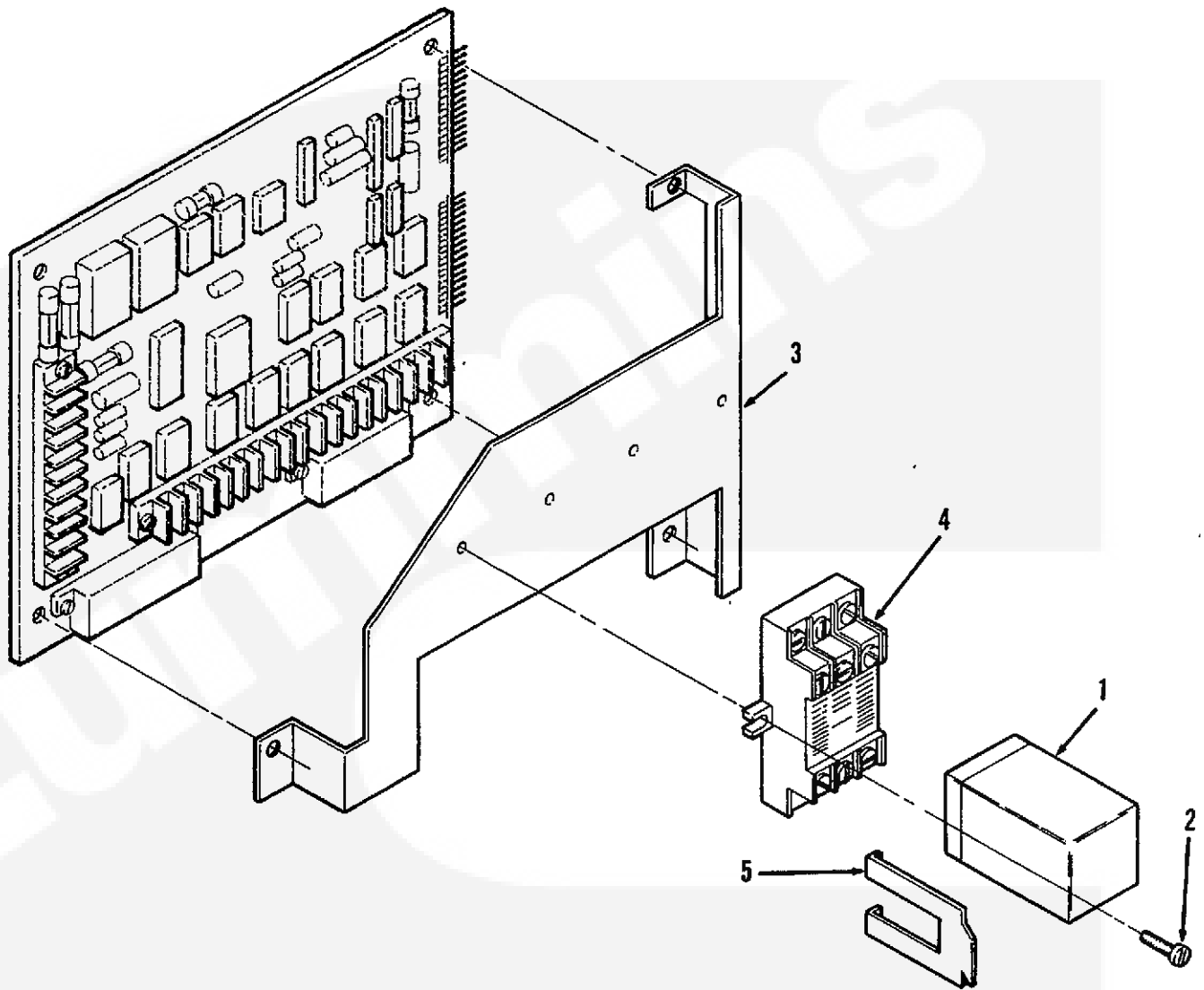
Auxiliary Terminal Block



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	332-3107	2	Block, Terminal (Also Available as Newage Part Number B450-14936)
2	338-2530	1	Harness, Wiring - AC 190-240, 380-480 Volt; 12 Lead Reconnectable Generator
	338-2713	1	240-480 Volt Y; 380-480 Volt Δ, 600 Volt Y
	338-2867	1	4160-2400 Y
3	812-0085	3	Screw, Machine - Round Head (#8-32 x 1-1/8")
4	870-0221	3	Nut, Hex - With IT (#8-32)
5	850-0025	3	Washer, Lock - Spring (#8)
6	232-3536	1	Base, Block - Terminal (Also

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	319-1245	1	Available as Newage Part Number 130-20102)
8	315-0717	3	Bracket, Tranformer Transformer, Potential (PTU, PTV, PTW)
9	870-0257	4	Nut, Self-Locking - Hex Flange Head (5/16-18)
10	812-0082	2	Screw, Machine - Round Head (#8-32 x 3/4")
11	870-0221	12	Nut, Hex -With ET (#8-32)
12	821-0016	4	Screw, Self-Locking - Hex Flange Head (5/16-18 x 3/4")

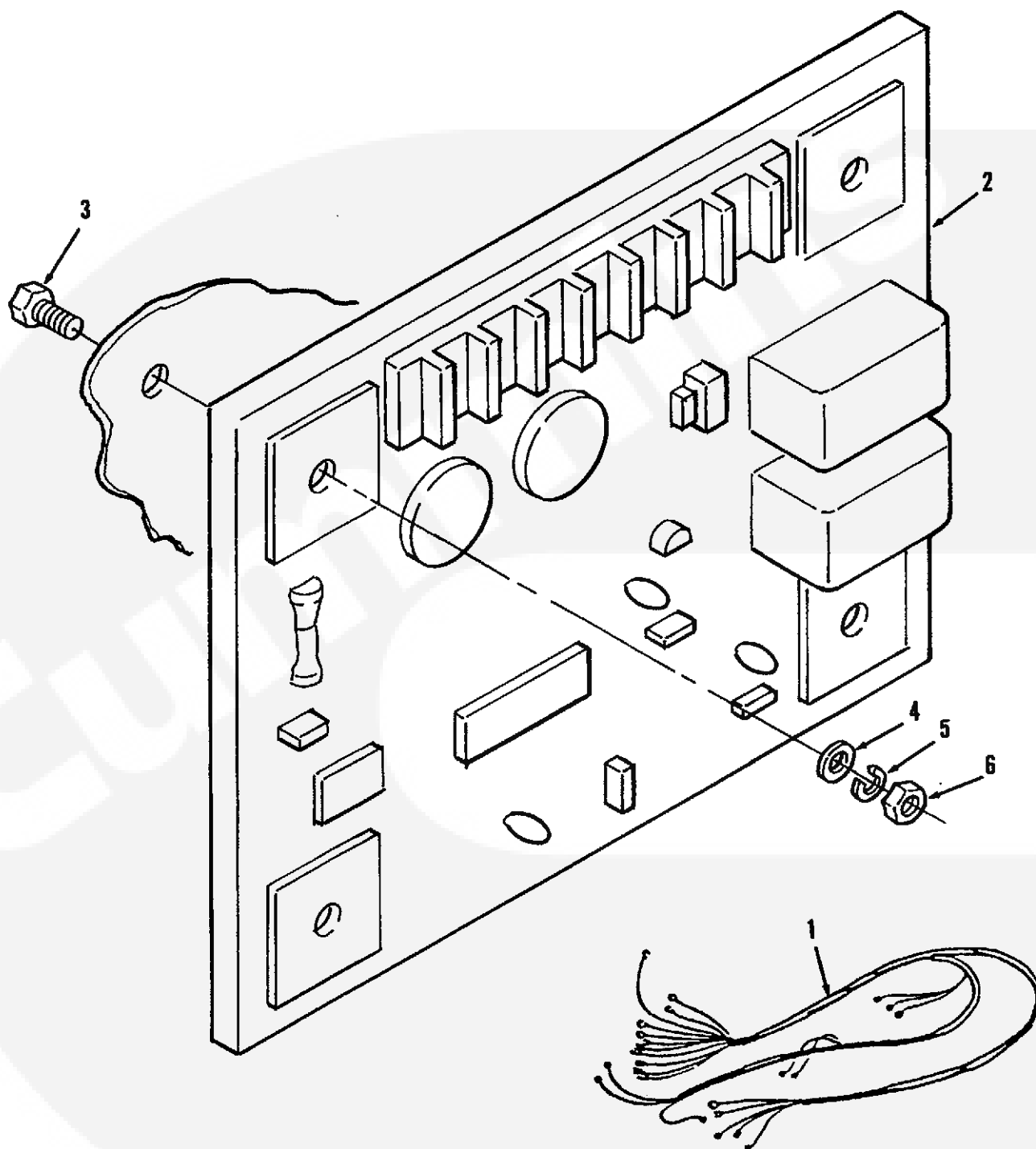
Common Alarm Relay



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	307-1056	1	Relay, Run (K11)
2	815-0388	2	Screw, Pan Head - Cross Recessed Thread (#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	Holddown, Relay

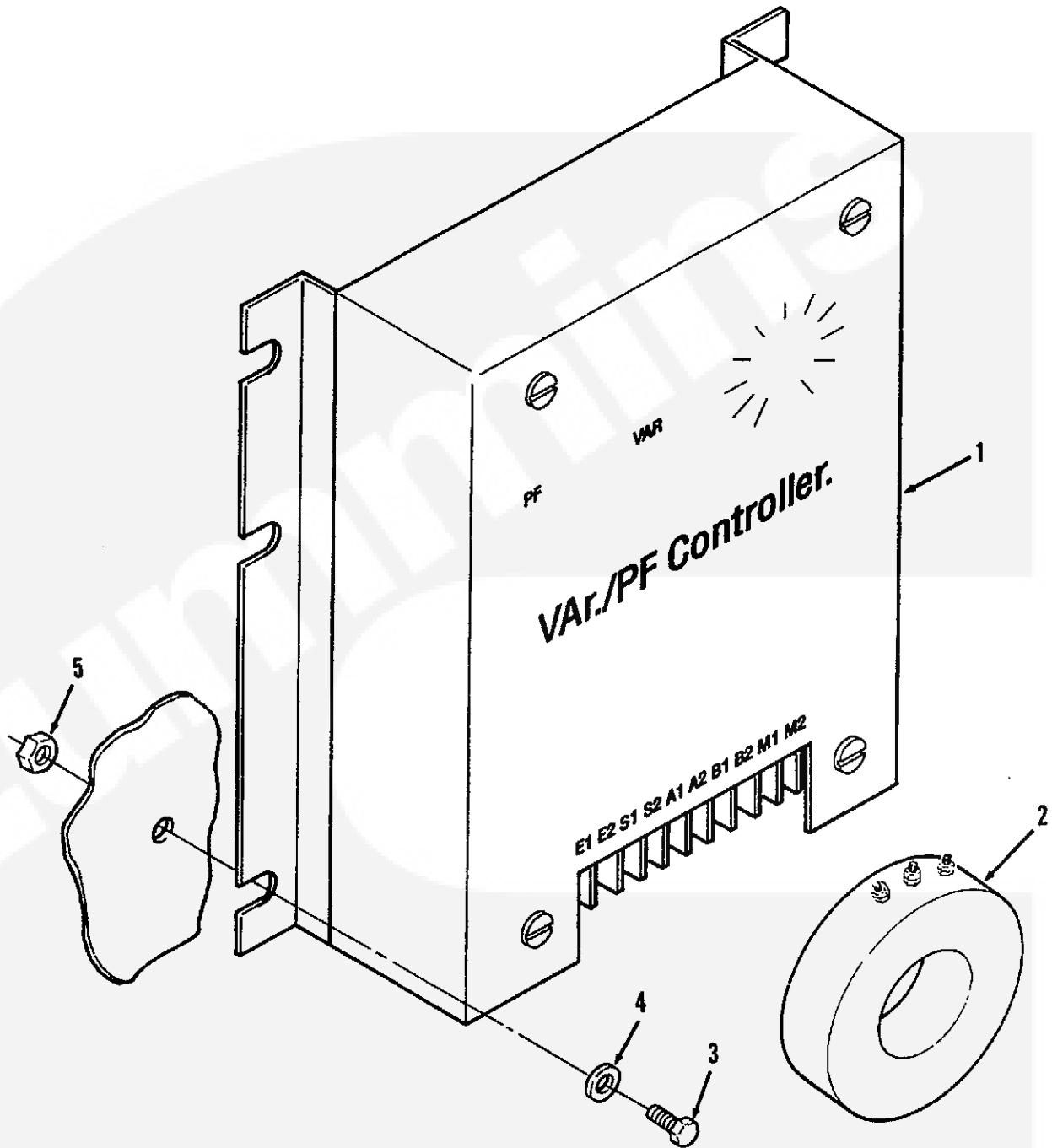
Excitation Loss Module



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	338-2455	1	Harness, Wiring
2	305-0821-02	1	Module (Also available as Newage part number 450-16300)
3	800-2013	4	Screw, Cap - Hex Head (M5 x 35mm)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
4	526-2060	4	Washer, Flat (M5)
5	850-2005	4	Washer, Lock - Spring (M5)
6	860-2006	4	Nut, Hex (M5)

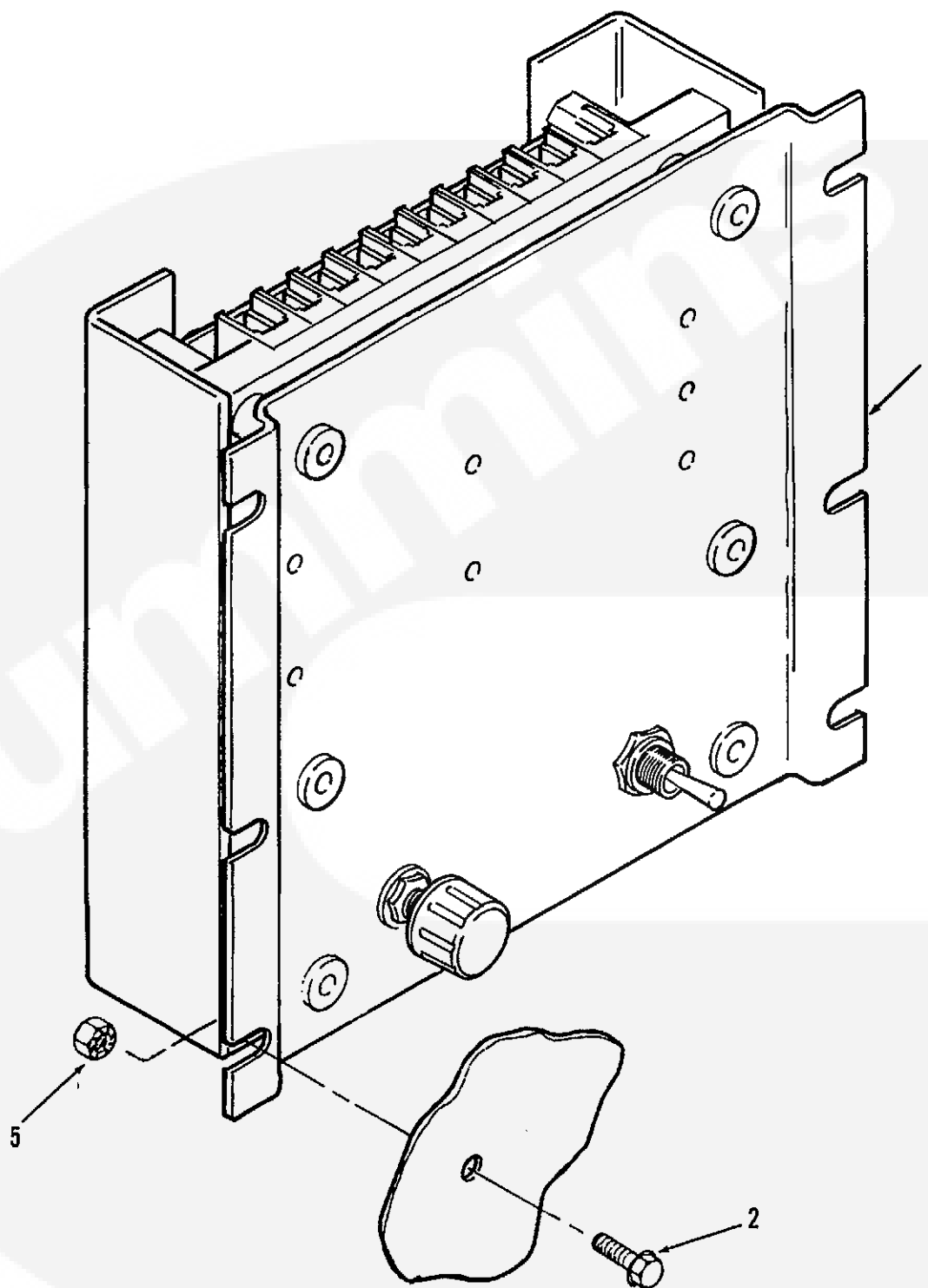
VAR Power Factor Controller



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	305-0870	1	Controller, Power Factor
2			Transformer, Current (CT25)
	302-1845-05	1	Ratio 300/5
	302-1794-11	1	Ratio 1500/5
	302-1794-13	1	Ratio 3000/5

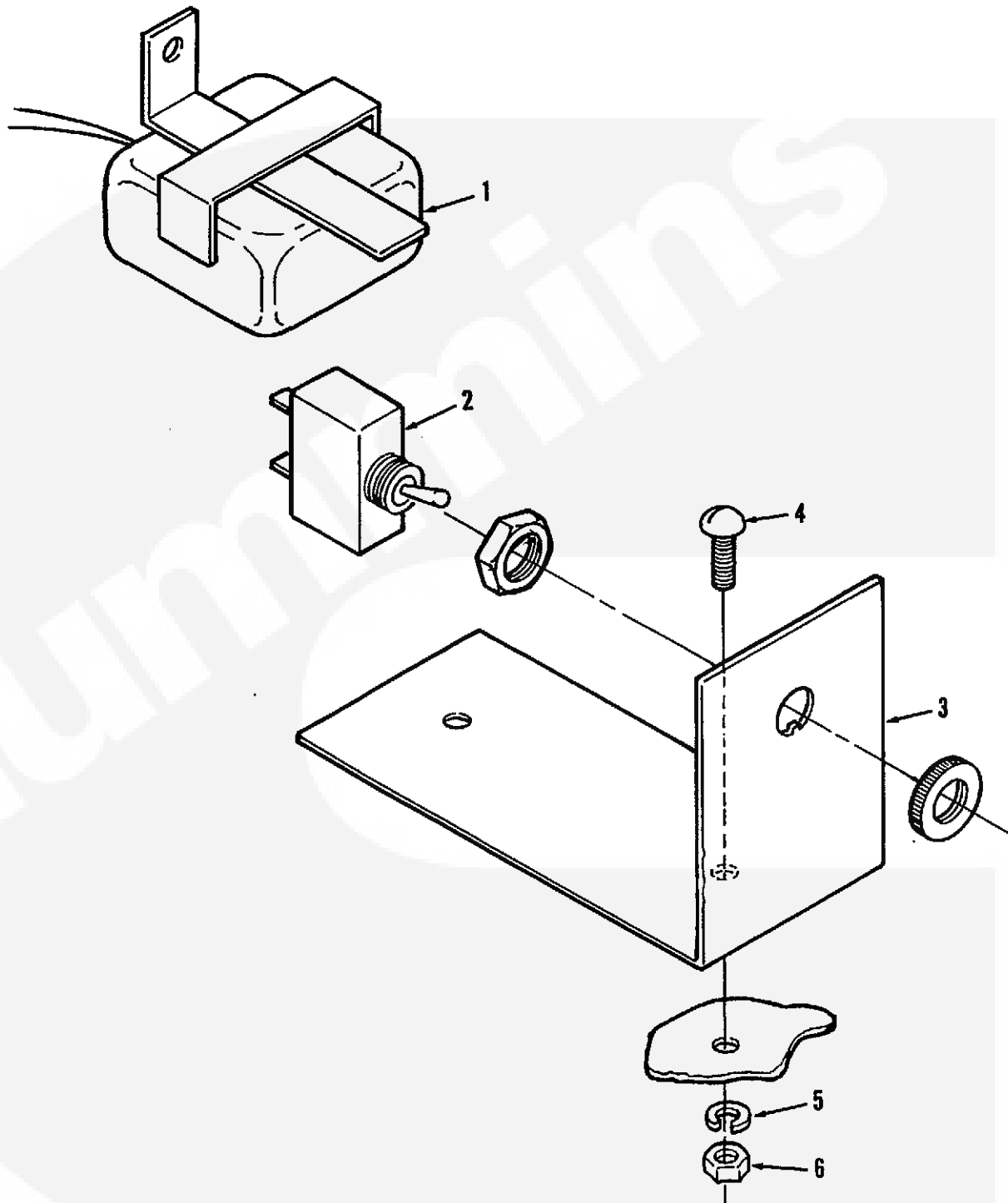
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	302-1794-14	1	Ratio 4000/5
3	813-0103	3	Screw, Machine - Round Head (#10-32 x 3/4")
4	526-008	4	Washer, Flat (#10)
5	870-0131	4	Nut, Hex - With EIT (#10-32)

Manual Voltage Regulator



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	305-0817	1	Regulator, Voltage - Manual (Also Available as Newage) Part Number 450-11400}	2	821-0005	4	Screw, Locking - Hex Flange
				5	871-0131	4	Nut, Hex W/ET (#10-32)

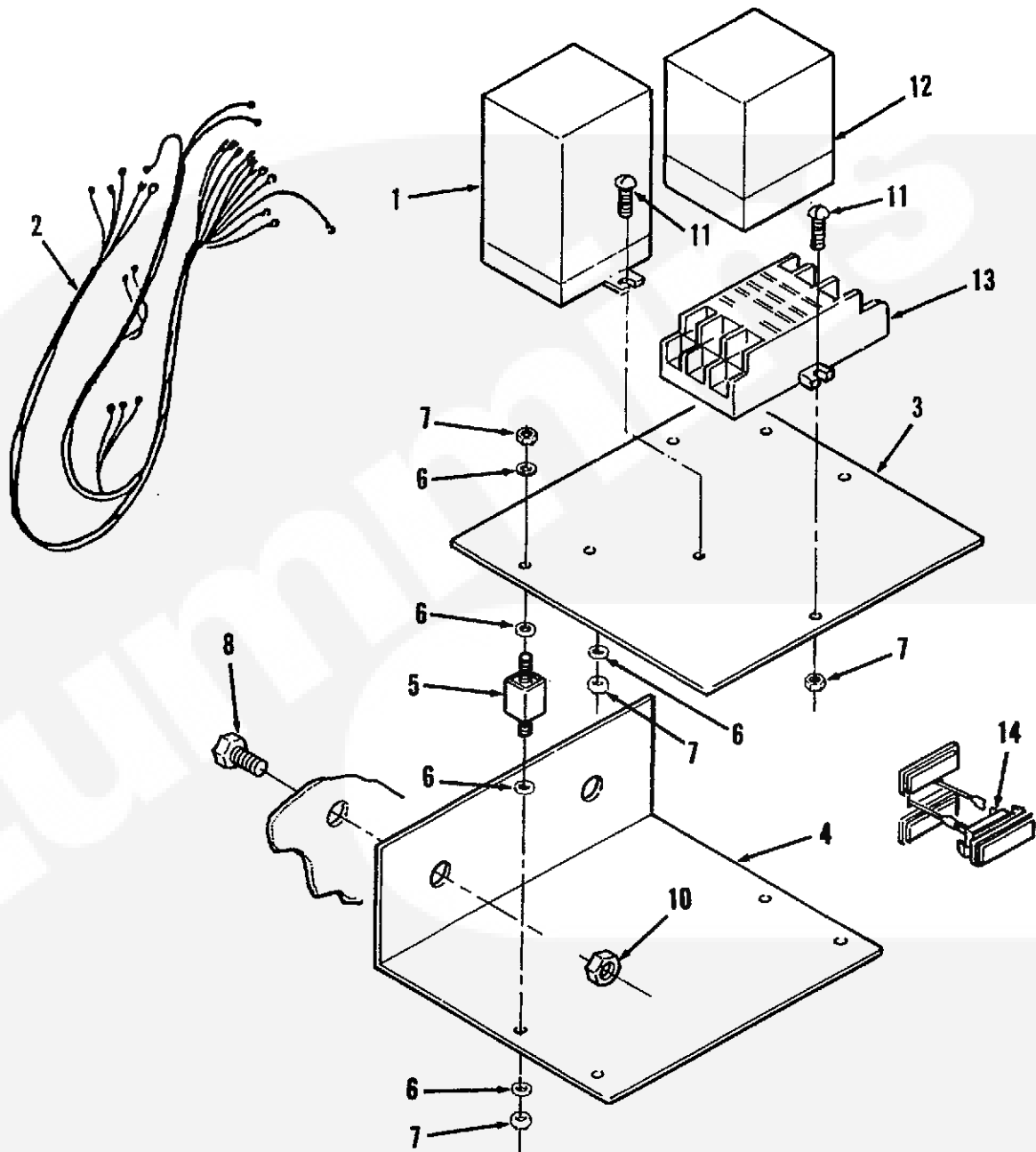
Cross Current Compensation Circuit



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	302-1852-02	1	Transformer, Current HC5, HC6 Frame
	302-1852-03	1	HC6, HC7/MC Frame
2	308-0069	1	Switch, Toggle (S22)
3	301-9657	1	Bracket, Mounting

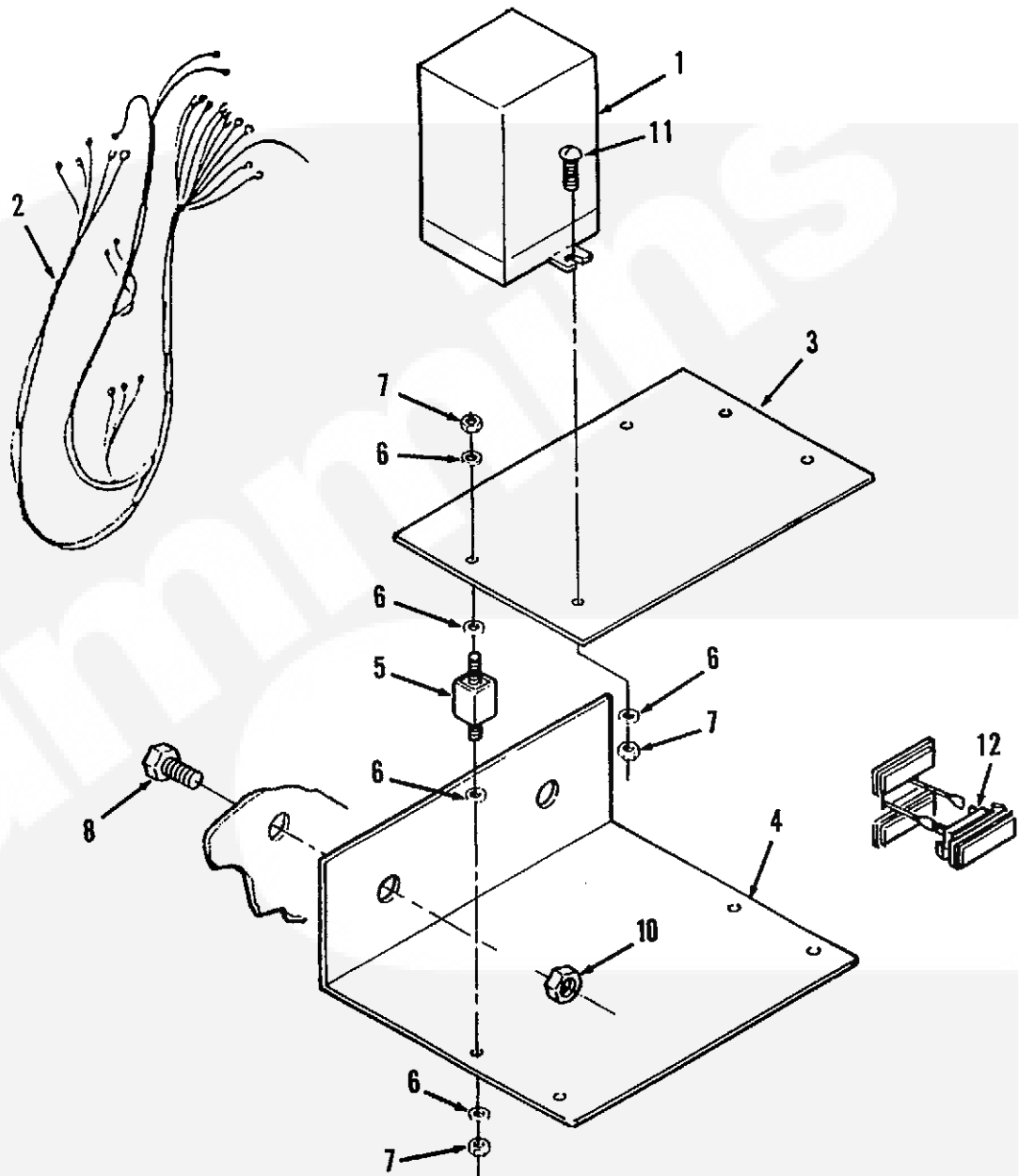
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
4	813-0100	2	Screw, Machine - Round Head (#10-32 x 1/2")
5	850-0030	2	Washer, Lock - Spring (#10)
6	870-0053	2	Nut, Hex (#10-32)

Over/Under Voltage Relay



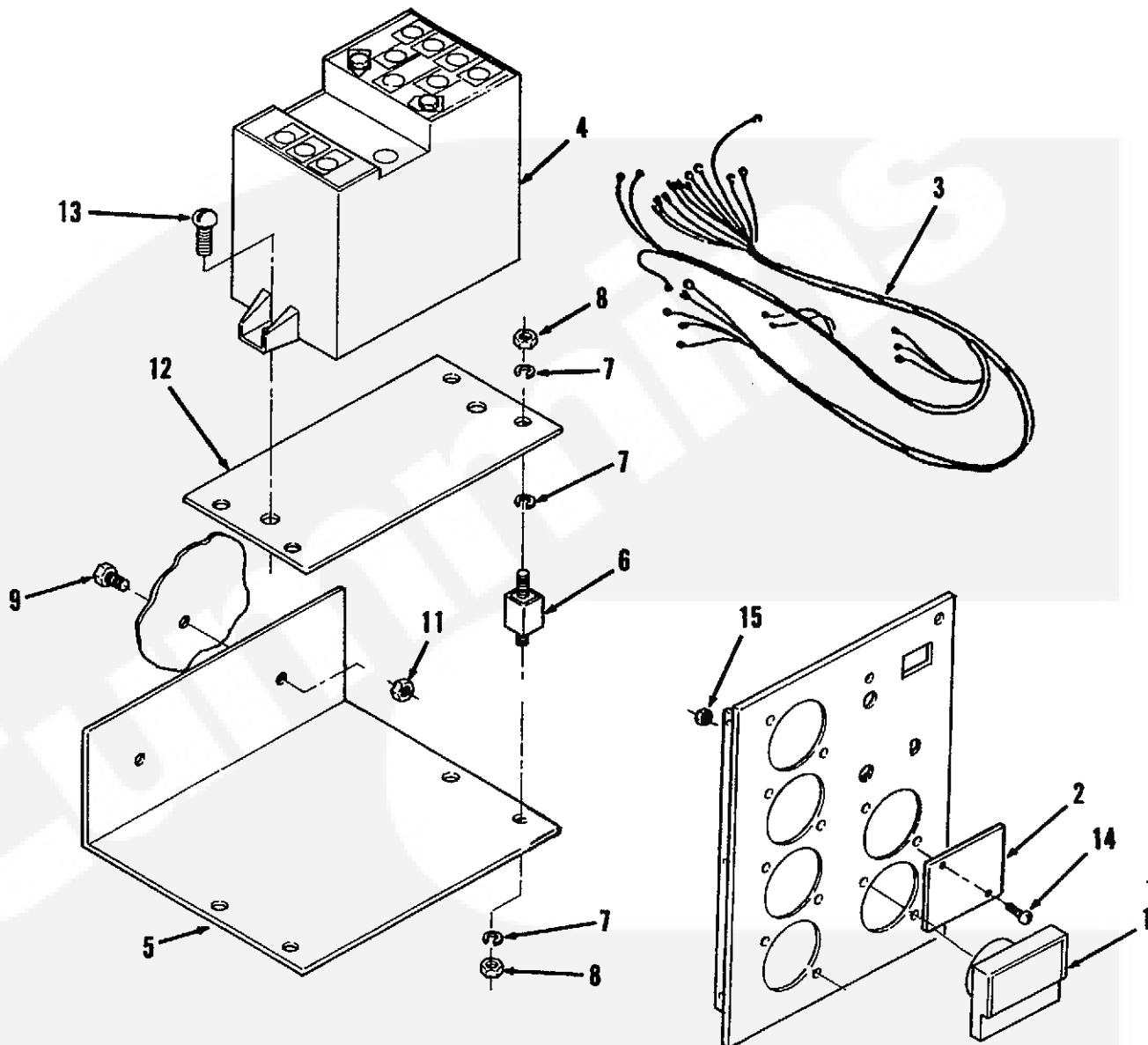
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	307-2552	1	Relay, Voltage - Over/Under (A17) 120 Volt, Single Phase Sets	8	821-0017	2	Screw, Locking - Hex Washer Head (5/16-18 x 1/2")
	307-2657	1	380 Volt, Three Phase Sets	10	870-0257	2	Nut, Locking - Hex (5/16-18)
2			Harness, Wiring - Over/Under Voltage	11	812-0082	4	Screw, Machine - Round Head (#8-32 x 3/4")
	338-2123	1	120 Volt, Single Phase Sets	12	307-1911	1	Relay, Time Delay (.1 to 10 Seconds) (K17)
	338-2346	1	380 Volt, Three Phase Sets	13	323-0804	1	Socket, Relay
3	301-9933	1	Plate, Mounting	14	322-0384-09	1	Light, Indicator - Marked "O/U VOLT" (Not used on all Models)
4	301-6987	1	Bracket, Mounting				
5	402-0354	4	Mount, Shock				
6	856-0002	18	Washer, Lock - ET (#8)				
7	860-0008	12	Nut, Hex (#8-32)				

Over/ Under Frequency Relay



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	307-2553	1	Relay, Frequency - Over/Under (A18)	6	856-0002	18	Washer, Lock - ET (#8)
	307-2709	1	50 Hertz Sets	7	860-0008	10	Nut, Hex (#8-32)
2			60 Hertz Sets	8	821-0017	2	Screw, Locking - HEx Washer Head (5/16-18 x 1/2")
	338-2347	1	Harness, Wiring - Over/Under Frequency	10	870-0257	2	Nut, Hex Lock (5/16-18)
3	301-9941	1	Plate, Mounting	11	812-0082	2	Screw, Machine - Round Head (#8-32 x 3/4")
4	301-6987	1	Bracket, Mounting	12	322-0431-04	1	Light, Indicator - Marked "O/U FREQ"
5	402-0354	4	Mount, Shock				

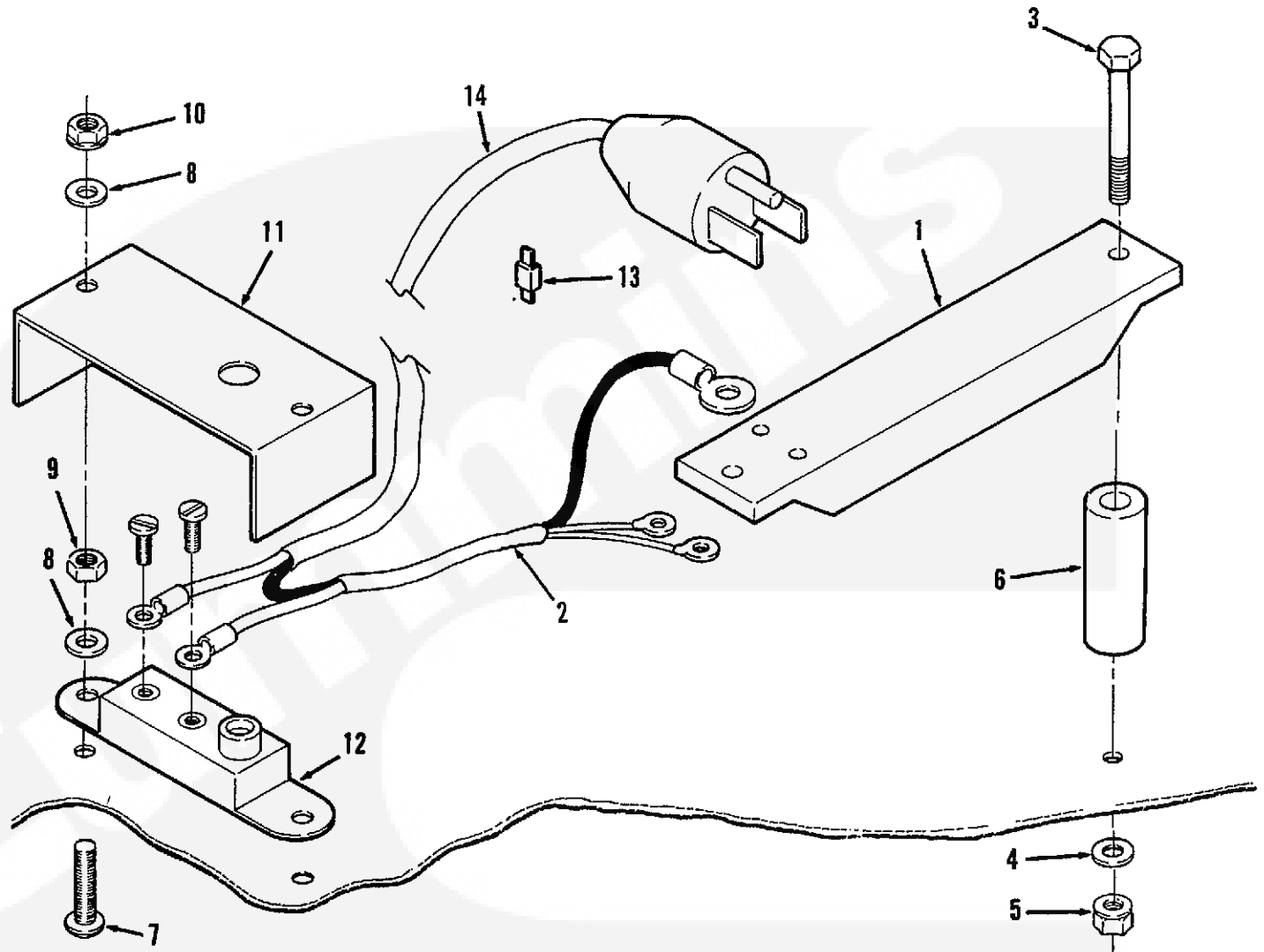
Power Factor Meter



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	302-1883	1	Meter - Power Factor (M25)
2	301-9993	1	Plate, Cover
3	338-2368	1	Harness, Wiring - Meter
4	302-1833-03	1	Transducer, Watts (A21)
5	301-6987	1	Bracket, Mounting
6	402-0354	4	Mount, Shock
7	856-0002	16	Washer, Lock - ET (#8)
8	860-0008	8	Nut, Hex (#8-32)
9	821-0017	2	Screw, Locking - Hex Washer Head (5/16-18 x 1/2")

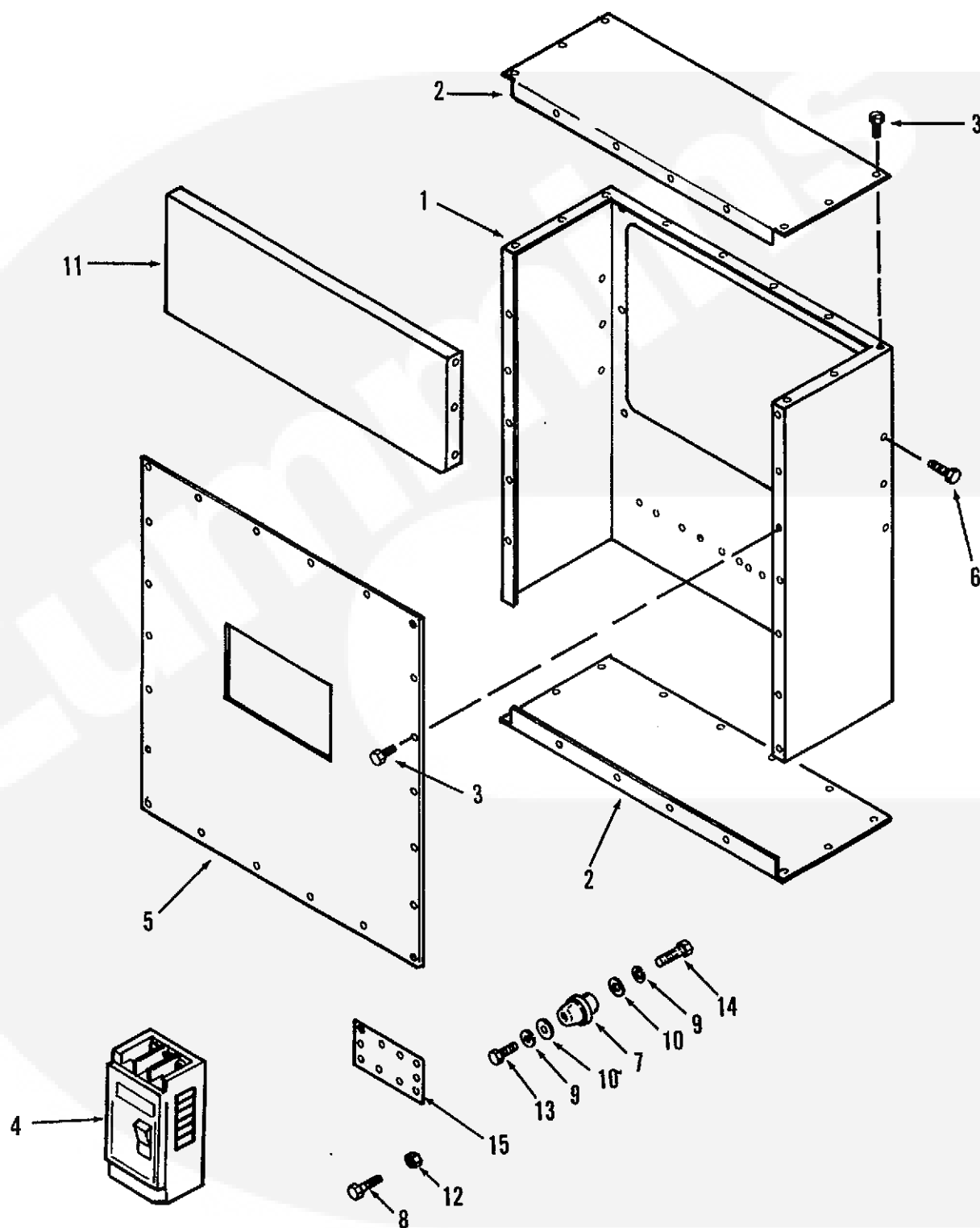
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
11	870-0257	2	Nut, Locking Hex (5/16-18)
12	319-0030	1	Plate, Mounting
13	813-0102	2	Screw, Machine - Round Head (#10-32 x 5/8")
14	815-0385	2	Screw, Machine - Round Head (#6-32 x 1/2")
15	870-0183	2	Nut, Hex - With ET (#6-32)

Control Heater



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	333-0151	1	Heater (HR1)	6	130-1107	2	(5/16-18) Spacer
	333-0378	1	75 Watt, 120 Volt	7	812-0070	2	Screw, Machine - Round Head (#6-32 x 1-1/4")
2	335-0161	1	150 Watt, 240 Volt	8	854-0006	4	Washer, Lock - IT (#6)
	338-2121	1	Harness, Wiring (P1)	9	860-0006	2	Nut, Hex (#6-32)
			120 Volt Heater	10	870-0183	2	Nut, Hex - With ET (#6-32)
			240 Volt Heater - Includes Diode (Three Prong Plug not Included)	11	301-1886	1	Cover
3	800-0034	2	Screw, Cap - Hex Head (5/16-18 x 2-1/4")	12	309-0128	1	Thermostat (S1)
4	526-0113	2	Washer, Flat (11/32" ID x 1" OD x 3/32" Thk)	13	357-0013	1	Diode (3 Amp, 400 Volt DC)
5	870-0257	2	Nut, Self-Locking - Hex Head	14	335-0161	1	Cable, Electrical - 120 VAC Application

**Circuit Breaker
(Non-UL Approved)**

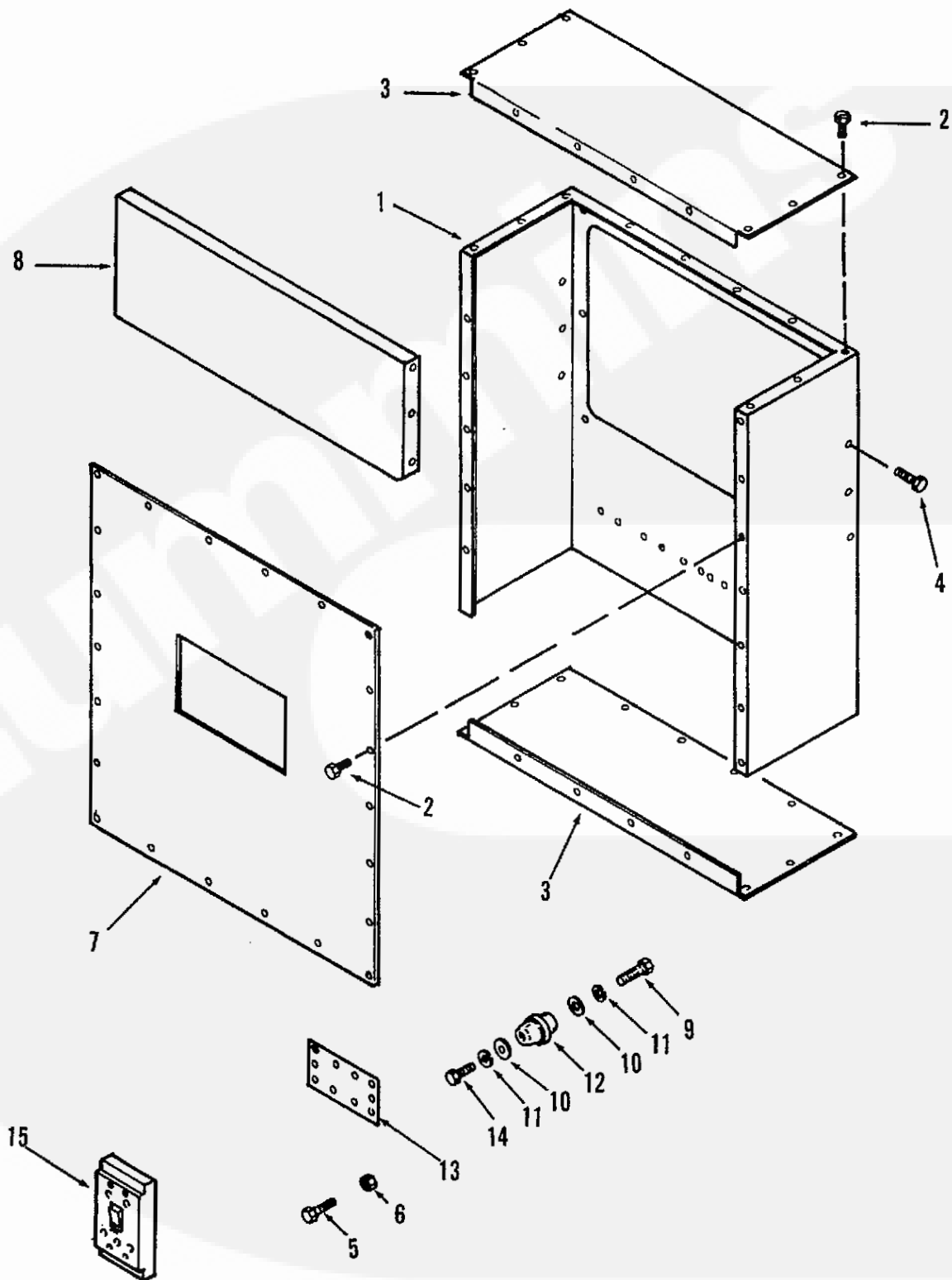


**Circuit Breaker
(Non-UL Approved)**

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	319-0890	1	Wrapper , Breaker Box - Circuit		320-1699-27	1	660 V - 2000 Amp
2	319-0892	2	Panel, Box		320-1699-28	1	660 V - 2500 Amp
3	821-0010	60	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")	5	319-1121	1	Cover, Box
4			Frame - Circuit Breaker (Includes Mounting Hardware)	6	821-0031	6	Screw, Self-Locking - Hex Washer Head (3/8-16 x 3/4")
			Three Pole Breakers	7	332-2744-07	2	*Standoff, Insulator
320-1699-01	1		660 V - 1250 Amp	8	800-0048	2	*Screw, Cap - Hex Head (3/8-16 x .75)
320-1699-02	1		660 V - 2000 Amp	9	850-0050	19	*Washer, Lock-Spring (3/8")
			Three Pole Breakers With Shunt Trip	10	526-0030	30	*Washer, Flat (3/8")
320-1699-04	1		660 V - 1600 Amp	11	319-1120	1	Plate, Back - Box
320-1699-05	1		660 V - 1250 Amp	12	862-0003	13	Nut, Hex (3/8")
320-1699-06	1		660 V - 2000 Amp	13	800-0054	9	Screw, Cap - Hex Head (3/8-16 x 2)
			Four Pole Breakers	14	800-0052	8	Screw, Cap - Hex Head (3/8-16 x 1-1/2")
320-1699-21	1		660 V - 1600 Amp	15	337-2702	1	*Neutral Bar
320-1699-23	1		660 V - 2000 Amp				
320-1699-24	1		660 V - 2500 Amp				
			Four Pole Breakers With Shunt Trip				
320-1699-25	1		660 V - 1600 Amp				

*Parts used on Three Pole Circuit Breakers

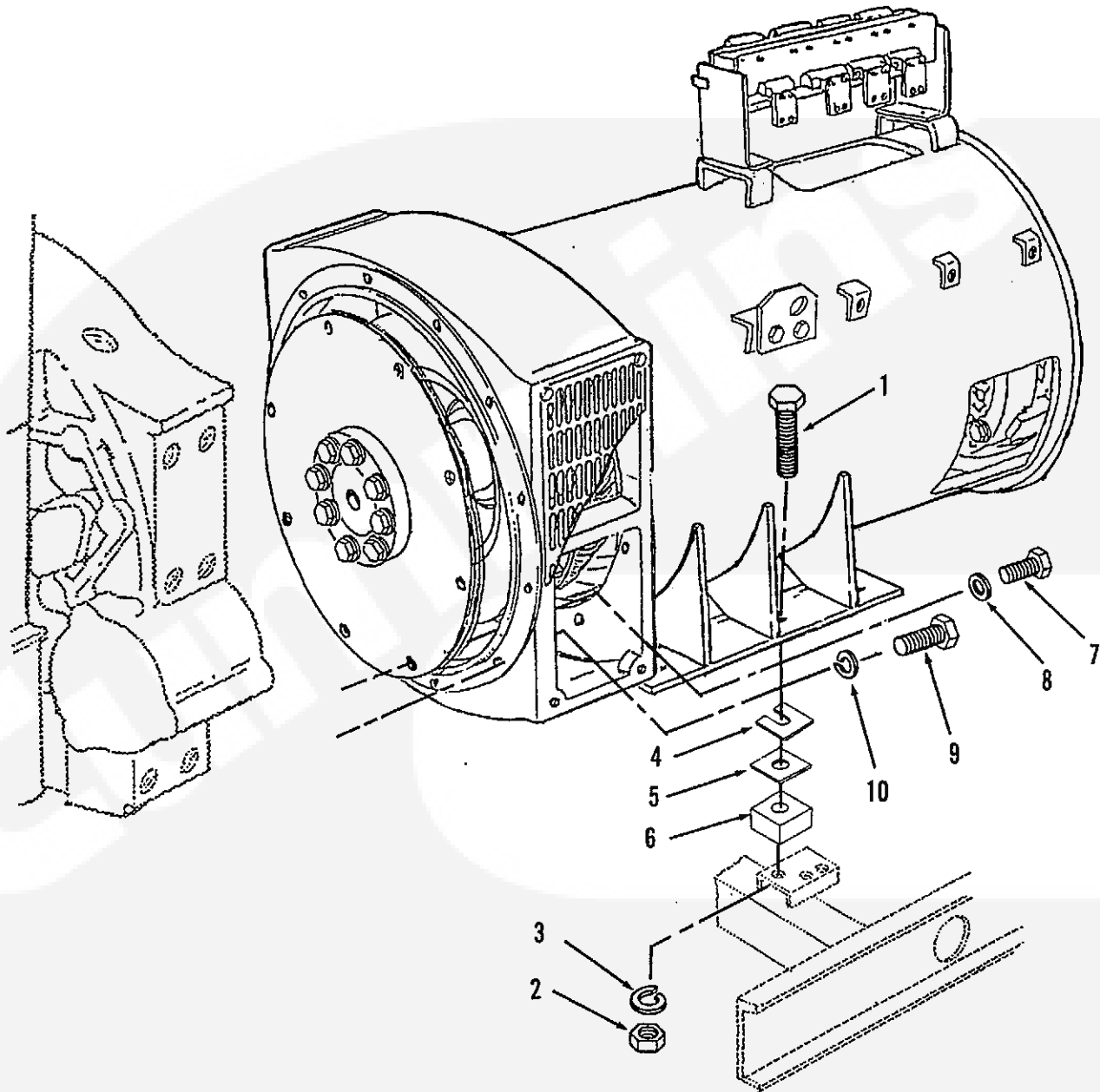
**Circuit Breaker
(UL Approved)**



**Circuit Breaker
(UL Approved)**

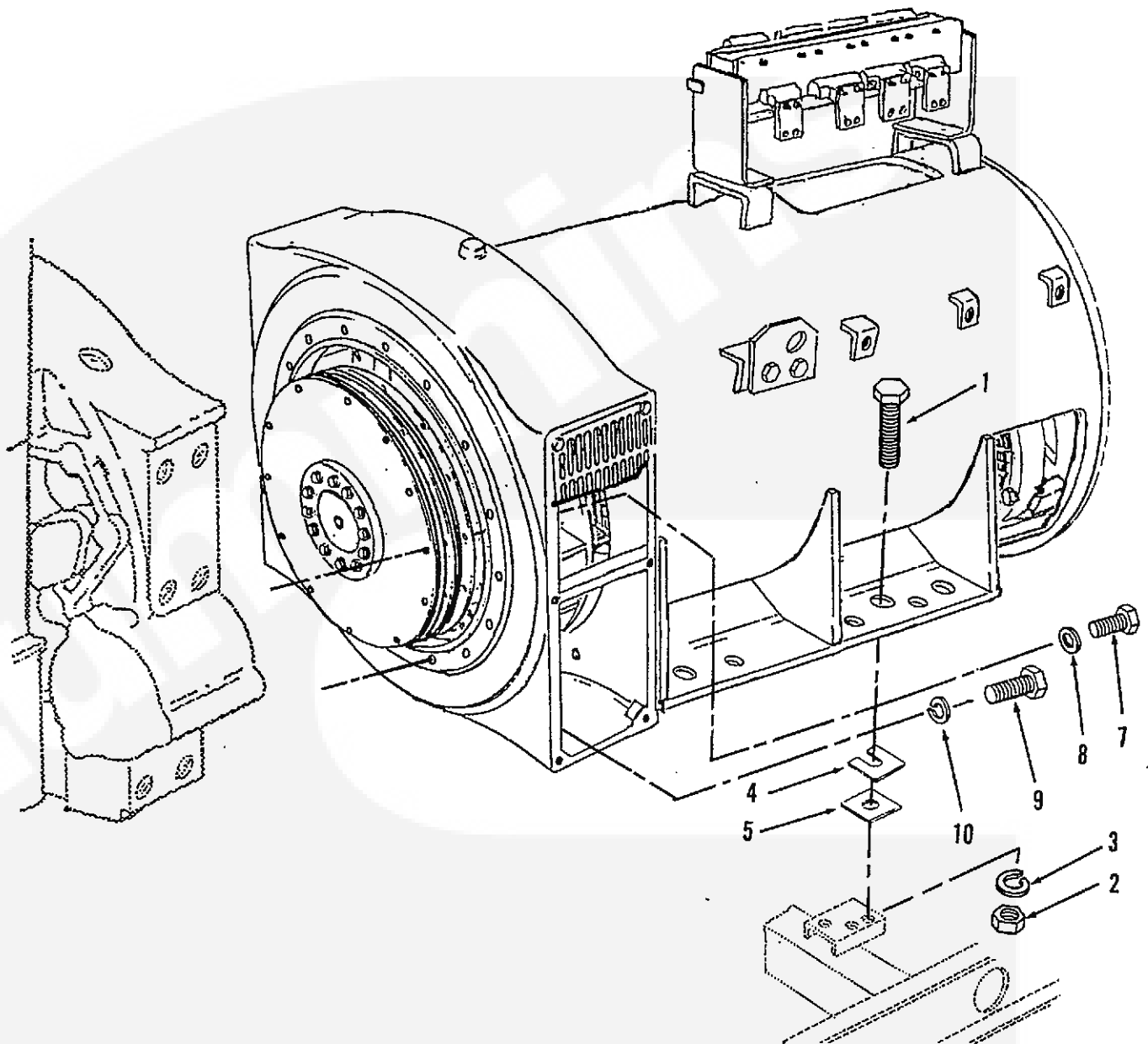
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	301-0890	1	Wrapper, Box - Breaker - Circuit	11	850-0050	19	Washer, Lock (3/8)
2	821-0010	60	Screw, Locking - Hex Washer Head (1/4-20 x 1/2")	12	332-2744-07	2	Stand off, Insulator
3	301-0892	2	Panel, Box	13	337-2702	1	Neutral Bar
4			Screw	14	800-0048	2	Screw, Cap - Hex Head (3/8 x .75)
	800-0031	6	Cap - Hex Head (5/16-18 x 1-1/2")	15			Breaker, Circuit Standard
5	800-0054	9	Screw, Cap - Hex Head (3/8 x 2)		300-1783-00	1	3 Pole, 600 V, 1600 Amp
6	862-0003	13	Nut, Hex (3/8)		300-1783-01	1	3 Pole, 600 V, 1250 Amp
7	319-1121	1	Cover, Box		300-1783-02	1	3 Pole, 600 V, 2000 Amp
8	319-1120	1	Plate, Back - Control Box		300-1783-03	1	3 Pole, 600 V, 2500 Amp
9	800-0052	8	Screw, Cap - Hex Head (3/8-16 x 1-1/2)		300-1783-04	1	3 Pole, 600 V, 1600 Amp
10	526-0030	30	Washer, Flat (3/8)		300-1783-05	1	3 Pole, 600 V, 1250 Amp
					300-1783-06	1	3 Pole, 600 V, 2000 Amp
					300-1783-07	1	3 Pole, 600 V, 2500 Amp

**Generator
HC634 Models**



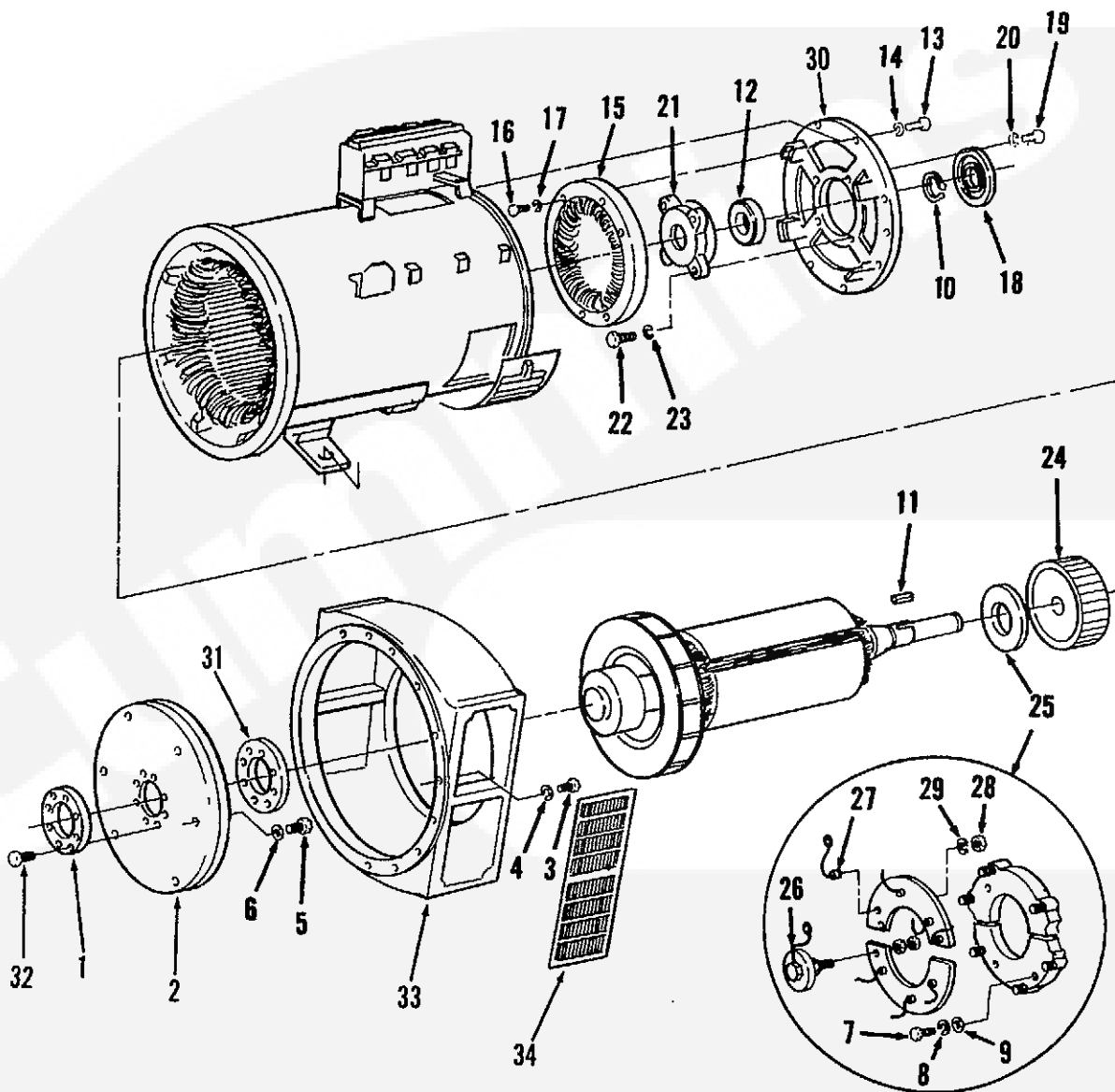
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Generators with SAE 0 Adapter/SAE 18 Drive Disc (See Separate Page for Servicable Components)	5	403-2921	4	Shim (1/8" THK) (Select as Required)
1	800-0304	2	Screw, Cap - Hex Head (1-1/4 - 7 x 5-1/2"	6	232-3551	2	Spacer (2" THK)
2	862-0017	2	Nut, Hex (1-1/4 - 7)	7	805-0035	6	Bolt, Place - Hex Head (5/8-11 x 1-1/2")
3	850-0092	2	Washer, Lock - Spring (1-1/4")	8	526-0343	6	Washer, Flat (5/8")
4			Shim (Select as Required)	9	800-0576	16	Screw, Cap - Hex Head (1/2-13 x 1-3/4" Grade 8)
	232-3552-01	4	1/32" THK	10	850-0060	16	Washer, Lock - Spring (1/2")
	232-3552-02	4	5/64" THK				

**GENERATOR
HC734 MODELS**



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Generators with SAE 0 Adapter / SAE 18 Drive Disc (See Separate Page for Serviceable Components)		232-3710-02	4	5/64" THK
					232-3710-03	4	(1/8" THK) (Select as Required)
1	800-0303	2	Screw, Cap - Hex Head (1-1/4-7 x 3-1/2")	7	805-0035	6	Bolt, Place - Hex Head (5/8-11 x 1-1/2")
2	862-0017	2	Nut, Hex (1-1/4-7)	8	526-0343	6	Washer, Flat (5/8")
3	850-0092	2	Washer, Lock - Spring (1-1/4")	9	800-0596	16	Screw, Cap - Hex Head (1/2-13 x 2.25 Grade 8)
4	232-3710-01	4	Shim (Select as Required) 1/32" THK	10	850-0060	16	Washer, Lock - Spring (1/2")

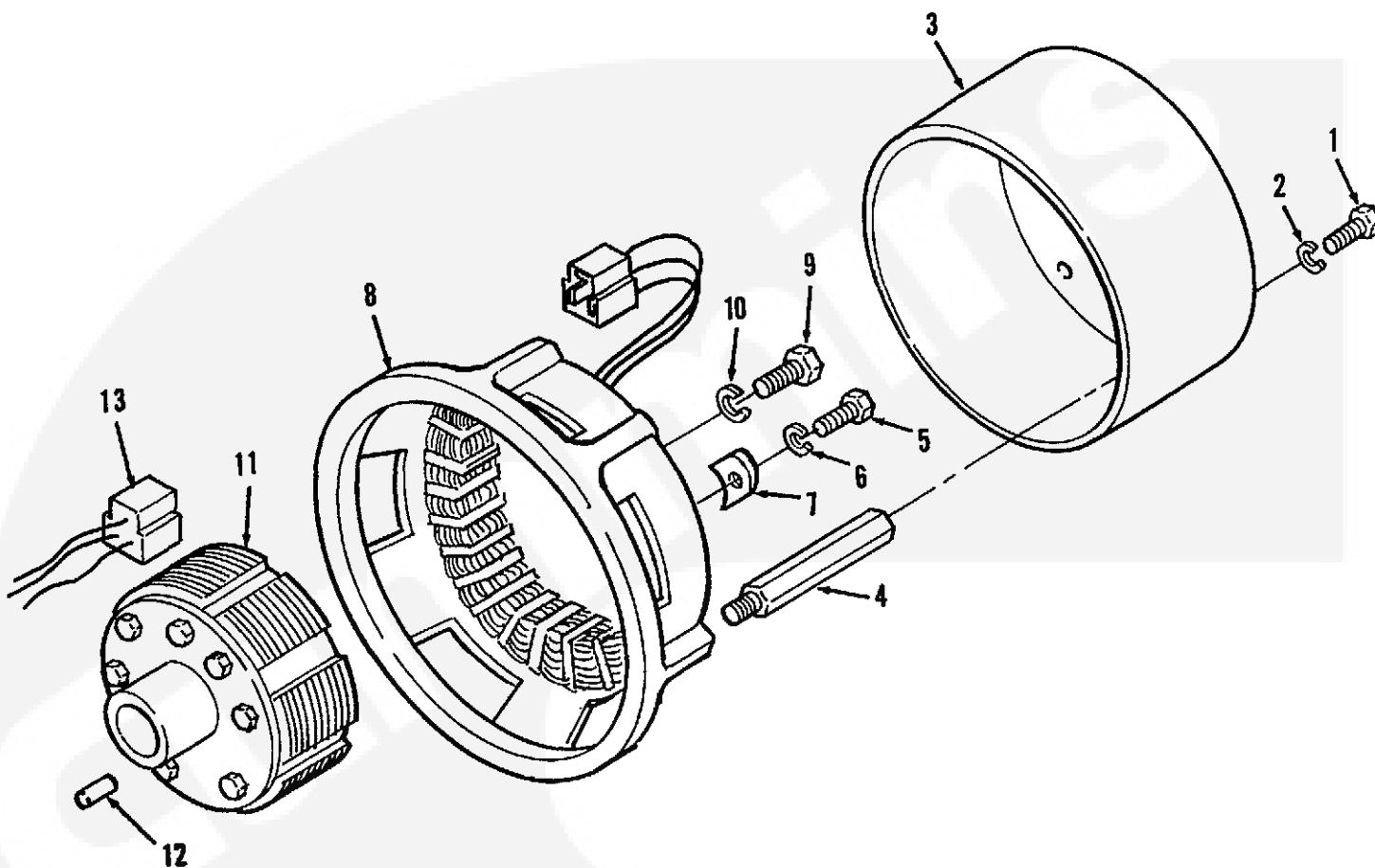
**Generator
(HC634, HC734)**



**Generator
(HC634, HC734)**

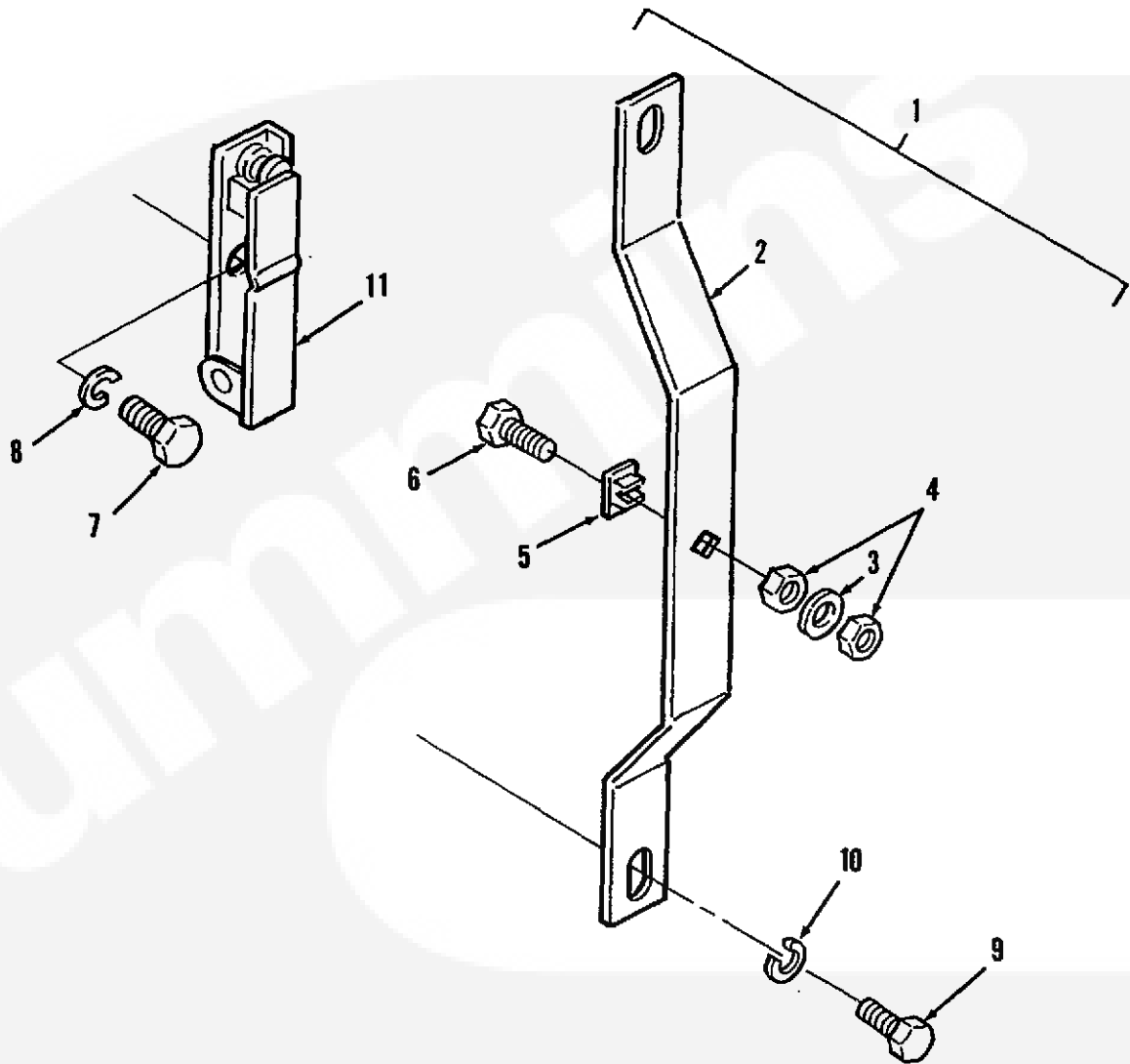
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1			Plate, Pressure	22			Screw, Cap - Hex Head
	249-0230	1	HC634		800-2520	4	(M10 x 30mm) HC634
	249-0467	1	HC734		800-2091	4	(M10 x 50mm) HC734
2			Disc, Drive - SAE 18	23	850-2010	4	Washer, Lock (M10)
	249-0276	6	HC634	24			Rotor, Exciter
	249-0469	6	HC734		249-0512	1	HC634
3	800-0576	16	Screw, Cap - Hex Head (1/2-13 x 1-3/4")		249-0503	1	HC734
4	850-0060	16	Washer, Lock-Spring (1/2")	25	357-0093	1	Rectifier Assembly (Includes Diodes and Varistor)
5	805-0033	8	Bolt, Place (5/8-11 x 1-1/2")	26			Varistor
6	526-0343	8	Washer, Flat (5/8)		249-0240	1	HC634
7	800-2043	4	Screw, Cap - Hex Head (M6 x 65mm)		249-0566	1	HC734
8	850-2006	4	Washer, Lock (M6)	27			Diode
9	526-2080	4	Washer, Flat (M6)		249-0239	3	Forward
10			Ring, Retaining		249-0238	3	Reverse
	249-0447	1	HC634, HC734	28	860-2006	6	Nut, Hex (M5)
	249-0475	1	HC734-4 1/4 Dia. Rotor.	29	850-2005	6	Washer, Lock (M5)
11	249-0620	1	Key	30			Bracket, End
12			Bearing, Ball		249-0527	1	HC634
	249-0448	1	HC634, HC734		249-0471	1	HC734
	249-0792	1	HC734-4 1/4 Dia. Rotor	31			Spacer
13	800-2114	8	Screw, Cap-Hex Head (M12 x 40mm)		249-0277	1	HC634
14	850-2012	8	Washer, Lock (M12)		249-0468	1	HC734
15	249-0470	1	Stator, Exciter	32			Screw, Cap - Hex Head
16			Screw, Cap Hex Head		249-0437	8	(M20 x 75mm) HC634
	249-0445	6	(M6 x 65mm) HC634		249-0444	8	(M24 x 75mm) HC734
	249-0438	6	(M6 x 85mm) HC734	33			Adapter, Generator SAE 0
17	850-2006	6	Washer, Lock (M6)		249-0533	1	HC634
18			Cap, Bearing - Outer		249-0481	1	HC734
	249-0510	1	HC634, HC734	34			Screen, Air - Adapter
	249-0793	1	HC734, 4 1/4 Dia. Rotor		249-0534	2	HC634
19	800-2528	4	Screw, Cap - Hex Head (M10 x 30mm)		249-0482	2	HC734
20	850-2010	4	Washer, Lock (M10)	35	249-0796	1	O-Ring (Used on HC734 4 1/4" Dia. Rotor) (Not Shown)
21			Cap, Bearing - Inner				
	249-0509	1	HC634, HC734				
	249-0794	1	HC734, 4 1/4 Dia. Rotor				

Permanent Magnet Excitier



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	800-2004	3	Screw, Cap - Hex Head (M5 x 12mm)	232-3526	4	HC634, HC734	
2	850-2005	3	Washer, Lock - Spring (M5)	232-3511	4	HC734, 4 1/4" Dia. Rotor	
3			Cover	8			Stator
	234-0890	1	HC634, HC734	249-0741	1	HC634, HC734	
	249-0791	1	HC734 - 4 1/4" Dia. Rotor	249-0790	1	HC734 - 4 1/4" Dia. Rotor	
4	232-3527	3	Spacer, Mounting - Cover	9	249-0495	1	Bolt, Hex Head
5			Screw, Cap - Hex Head (M8 x 16mm)	10	850-2010	1	Washer, Lock (M10)
	800-2056	4	HC634, HC734	11	249-0644	1	Rotor
	718-1035	4	HC734 - 4 1/4" Dia. Rotor	12	775-0049	1	Pin, Dowel
6			Washer, Lock - Spring (M8)	13	249-0642	1	Harness, Wiring (Universal Replacement) Permanent Magnet Exciter to AUX Terminal Strip
	850-2008	4	HC634, HC734				
	850-2008	4	HC734 - 4 1/4" Dia. Rotor				
7			Clamp, Stator				

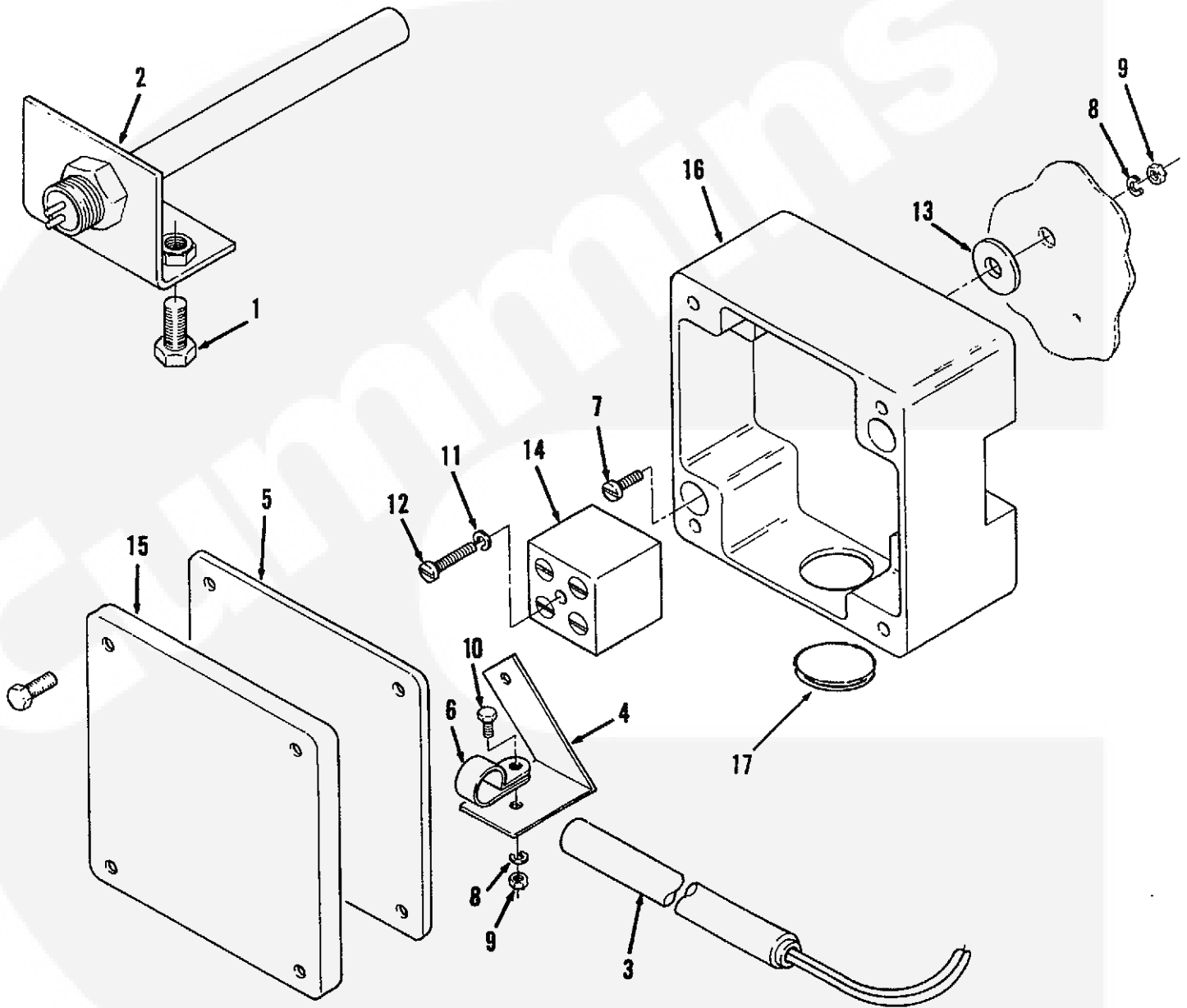
Overspeed Switch



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

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	800-2088	1	Screw, Cap - Hex Head (M10 x 35mm)
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.			

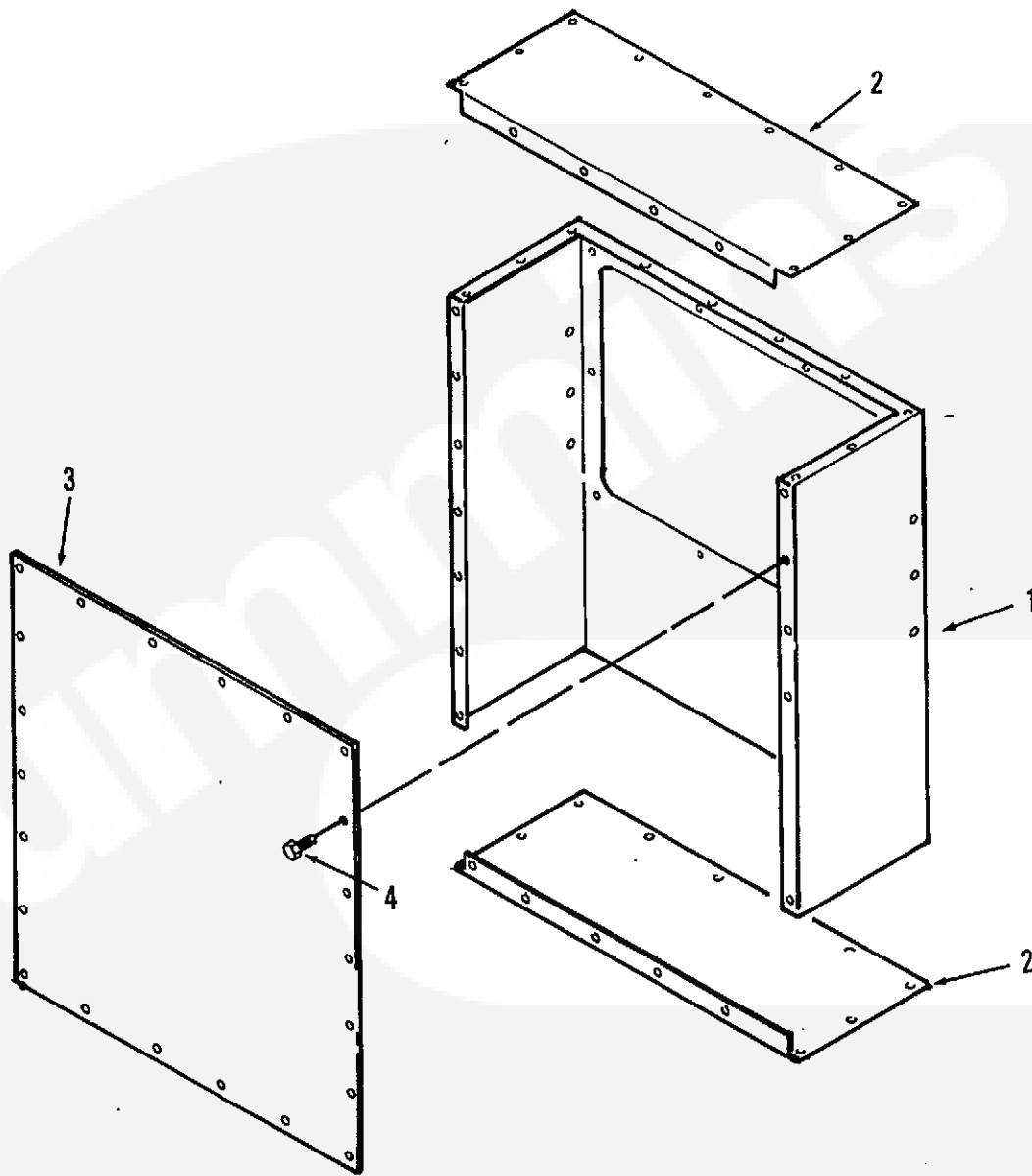
Generator Heater



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)				One Heater Mounting Hole)
2			Heater, Generator (Includes	232-3560		1	Left Side
			Mounting Brackets and Terminal	232-3561		1	Right Side
			Block) Newage Generator	5	330-0141-04	1	Gasket Cover
			Model HC4	6	822-3075	2	Clamp, Loop
	333-0382-02	1	120 Volt	7	822-3075	2	Screw, Pan Head (M4 x 16mm)
	333-0382-07	1	240 Volt	8	850-2004	4	Washer, Lock - Spring (M4)
3			Cartridge, Heater	9	860-2005	4	Nut, Hex (M4)
			Newage Generator Model HC4	10	800-4047	2	Screw, Machine - Hex Head
	333-0438-03	2	120 Volt (150 Watt)				(M4 x 13mm)
	333-0438-04	2	240 Volt (150 Watt)	11	850-2003	1	Washer, Lock - Spring (M3)
4			Bracket, Mounting - Heater	12	822-3047	1	Screw, Pan Head (M3 x 20mm)
			Newage Generator Model HC4	13	508-0228	1	Grommet
			(With Two Heater Mounting Holes)	14	332-3032	1	Block, Terminal
	232-3543	1	Left Side	15	330-0141-03	1	Cover, Box
	232-3544	1	Right Side	16	330-0142	1	Box, Terminal
			Newage Generator Model HC5 (With	17	517-0021	1	Plug, Dot Button

Entrance Box



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	319-0890	1	Box, Entrance
2	319-0892	2	Panel
3	319-0888	1	Cover

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
4	821-0010	52	Screw, Locking - Hex Washer Head (1/4-20 x 1/2")

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