

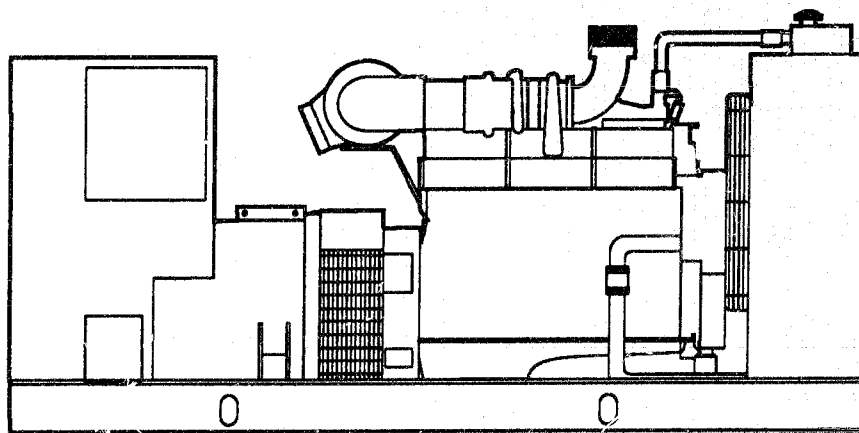
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PARTS CATALOG

<i>Onan Model</i>	<i>Cummins Model</i>	<i>Onan Model</i>	<i>Cummins Model</i>
DFBC		DFBF	NT6
DFBD	NT4	DFCB	NTA2
DFBE	NT5	DFCC	NTA3

Generating Sets



960-0204
3-92 (Spec E and F)
Printed in U.S.A.

Note: This parts catalog issue replaces:
 960-0235 DFBD/NT4 Spec E Dated 2-90
 960-0236 DFBE/NT5 Spec E Dated 2-90
 960-0237 DFBF/NT6 Spec E Dated 2-90
 960-0238 DFCB/NTA2 Spec E Dated 2-90
 960-0239 DFCC/NTA3 Spec E Dated 2-90

Introduction

This catalog applies to Onan Generator Models DFBC, DFBD, DFBE, DFBF, DFCB, DFCC, and Cummins Generator Models NT4, NT5, NT6, NTA2, NTA3 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>
175DFBC	-	NT-855-G4
200DFBC	-	NT-855-G4
175DFBD	175NT4	NT-855-G4
200DFBD	200NT4	NT-855-G4
230DFBD	230NT4	NT-855-G4
220DFBE	220NT5	NT-855-G5
250DFBE	250NT5	NT-855-G5
250DFBF	250NT6	NT-855-G6
275DFBF	275NT6	NT-855-G6
275DFCB	275NTA2	NTA-855-G2
300DFCB	300NTA2	NTA-855-G2
310DFCC	310NTA3	NTA-855-G3
350DFCC	350NTA3	NTA-855-G3

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

Generator Table

<u>NEWAGE MODEL NUMBER</u>	<u>NEWAGE FRAME NUMBER</u>	<u>ONAN/CUMMINS IDENTIFICATION NUMBER</u>
HC434C-311-D41-4070	4	249-0168-02
HC434D-311-D41-4070	4	249-0168-03
HC434E-311-D41-4070	4	249-0168-04
HC434F-311-D41-4071	4	249-0168-05
HC434E-311-D41-4070	4	249-0168-09
HC534C-311-D52-4067	5	249-0169-01
HC534D-311-D52-4067	5	249-0169-02
HC534C-311-D52-4067	5	249-0169-09
HC434C-07-D41-4070	4	249-0171-02
HC434D-07-D41-4070	4	249-0171-03
HC434E-07-D41-4070	4	249-0171-04
HC434B-07-D41-4070	4	249-0171-06
HC534C-07-D52-4067	5	249-0172-01

Generator Set Data Table

MODEL AND SPECIFICATION	ELECTRICAL DATA					BATTERY VOLTAGE
	WATTS	VOLTS	HERTZ	WIRE	PHASE	
175DFBC/* 200DFBC/*	175,000 200,000	# #	50 60	12 12	1 or 3 1 or 3	24VDC 24VDC
175DFBD/* 175NT4 200DFBD/* 200NT4 230DFBD/* 230NT4	175,000 200,000 230,000	# # #	50 60 60	12 12 12	1 or 3 1 or 3 1 or 3	24VDC 24VDC 24VDC
220DFBE/* 220NT5 250DFBE/* 250NT5	220,000 250,000	# #	50 60	12 12	1 or 3 1 or 3	24VDC 24VDC
250DFBF/* 250NT6 275DFBF/* 275NT6	250,000 275,000	# #	50 60	12 12	1 or 3 1 or 3	24VDC 24VDC
275DFCB/* 275NTA2 300DFCB/* 300NTA2	275,000 300,000	# #	50 60	12 12	1 or 3 1 or 3	24VDC 24VDC
310DFCC/* 310NTA3 350DFCC/* 350NTA3	310,000 350,000	# #	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.

Paint

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Onan Green Enamel (Non-Metalic)				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

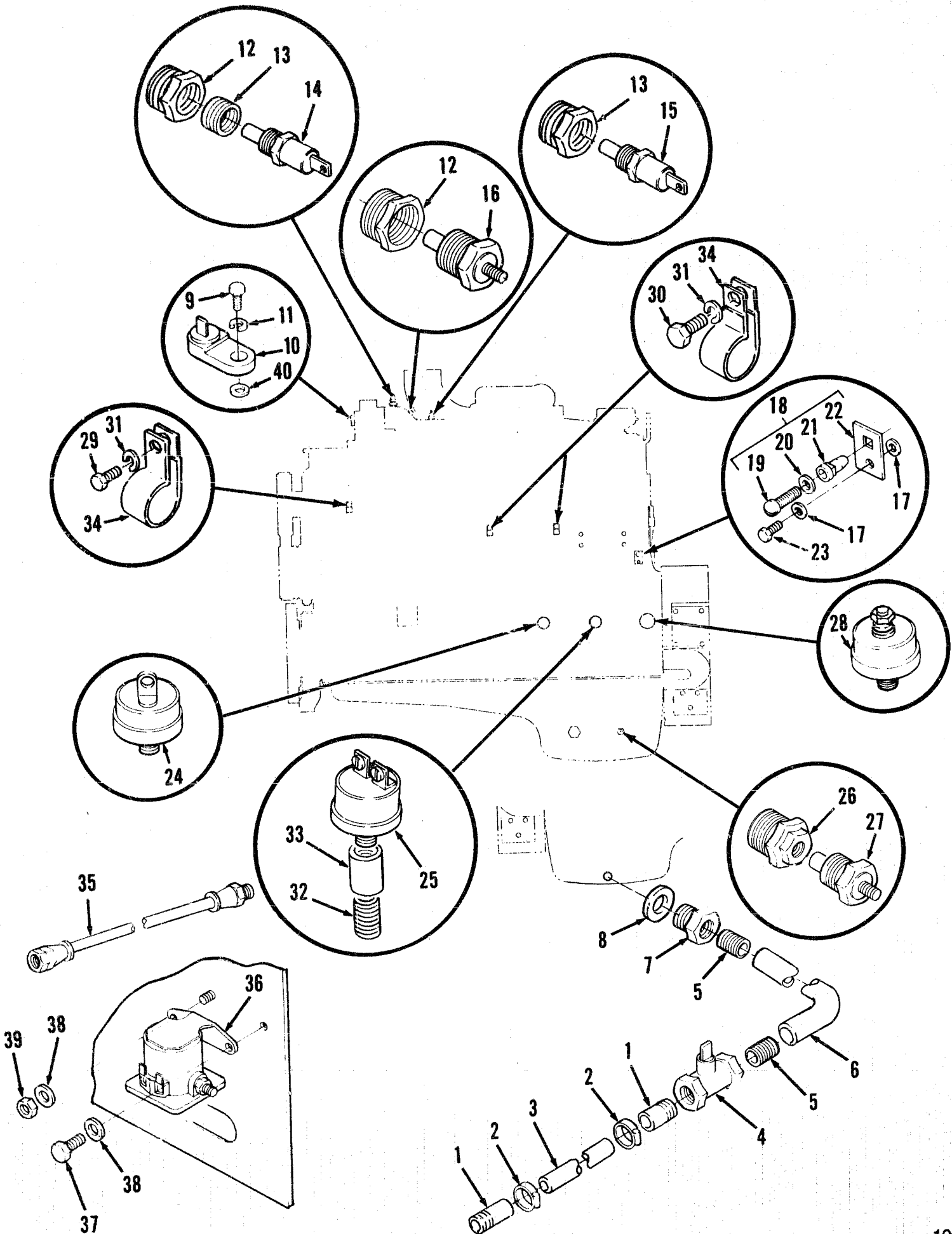
Index

- Alarm, Low Fuel 11
- Alternator - 35 Amp - Spec E 20
- Alternator - 45 Amp - Spec F 21
- Ammeter - AC 46
- Ammeter - DC - Blank Scale 47
- Basin, Rupture 26
- Belt, Alternator - 35 Amp - Spec E 20
- Belt, Alternator - 45 Amp - Spec F 21
- Belt, Fan 30
- Block, Terminal - Auxiliary 62
- Block, Terminal - Control Box 44
- Block, Terminal - Paralleling Interconnect 63
- Block, Terminal - Woodward Governor 19
- Board, PC - Alarm Relay 44
- Board, PC - Day Tank 24
- Board, PC - Electronic Overspeed 44
- Board, PC - Time Delay - Start/Stop/Preheat 44
- Box - AC Circuit Breaker - Non-UL Approved 72
- Box - AC Circuit Breaker - UL Approved 70
- Box, Control - Day Tank 24
- Box, Control - Generator Set 44
- Box, Entrance 35
- Box, Junction - Engine Coolant Heater Harness 15
- Bracket, Battery - Hold-Down 23
- Breaker, Circuit - AC - Non-UL Approved 72
- Breaker, Circuit - AC - UL Approved 70
- Breaker, Circuit - AC Control Door 46
- Breaker, Circuit - Day Tank 24
- Cable, Battery 22
- Cable, Shielded - Speed Adjusting Potentiometer 58
- Cap, Day Tank - With Pump and Control 26
- Cap, Day Tank - Without Pump and Control 25
- Cap, Pressure - Radiator 30
- Cap, Rain - Muffler 16
- Circuit, Compensation - Cross Current 61
- Cleaner, Air - Heavy Duty 9
- Cleaner, Air - Standard 8
- Control, Day Tank 24
- Control, Electronic Governor 18
- Control, Generator Set 44
- Control, Remote 42
- Controller, Power Factor - VAR 52
- Coupler, Day Tank Pump 26
- Cover, Control Box - Day Tank 24
- Cover, Control Housing 34
- Dial, Wattmeter 50
- Door, Generator Control - AC 46
- Door, Generator Control - DC 47
- Door, Housing 32
- Elbow, Exhaust 10
- Element, Air Cleaner - Heavy Duty 9
- Element, Air Cleaner - Standard 8
- Element, Engine Coolant Heater - Spec E through Early Portion of Spec F 13
- Exchanger, Heat 28
- Exciter, Permanent Magnet 38
- Fan, Alternator - 45 Amp - Spec F 21
- Fan, Radiator 30
- Flange, Exhaust 10
- Frame - AC Circuit Breaker - Non-UL Approved 72
- Gauge, Liquid Level 26
- Gauge, Oil Pressure 47
- Gauge, Oil Temperature 56
- Gauge, Fuel Pressure 12
- Gauge, Water Temperature 47
- Generator 36
- Governor, Electronic 18
- Governor, Woodward 19
- Grille, Control Housing 34
- Grille, Radiator 30
- Guard, Belt - Heat Exchanger 28
- Guard, Belt - Radiator 30
- Guard, Belt - Remote Radiator 28
- Guard, Fan 30
- Guard, Radiator 30
- Harness, Adapter - Woodward Governor 19
- Harness, Wiring - Auxiliary Terminal Block 62
- Harness, Wiring - AC Control Door 44
- Harness, Wiring - DC Control Door 44
- Harness, Wiring - Alarm Relay 44
- Harness, Wiring - Control Heater 48
- Harness, Wiring - Current Transformer 69
- Harness, Wiring - Day Tank 24
- Harness, Wiring - Electronic Governor 18
- Harness, Wiring - Electronic Overspeed 44
- Harness, Wiring - Engine Coolant Heater - Spec E Thru Early Portion Spec F 13
- Harness, Wiring - Engine Coolant Heater - Use Began During Later Portion of Spec F 14
- Harness, Wiring - Engine to Control 44
- Harness, Wiring - Excitation Loss Module 59
- Harness, Wiring - Low Coolant Level Sender 17
- Harness, Wiring - Over/Under Frequency 66
- Harness, Wiring - Over/Under Voltage Relay 65
- Harness, Wiring - Paralleling Interconnect Terminal Blocks 63
- Harness, Wiring - Permanent Magnet Exciter 38
- Harness, Wiring - Power Factor Meter 53
- Harness, Wiring - Remote Control Panel 42
- Harness, Wiring - Shielded - Governor 63
- Harness, Wiring - Time Delay Start/Stop 44
- Harness, Wiring - Wattmeter 50
- Harness, Wiring - Woodward Governor 19
- Heater, Control 48
- Heater, Engine Coolant - Spec E Through Early Portion of Spec F 13
- Heater, Engine Coolant - Use began During Later Portion of Spec F 14
- Heater, Generator 40
- Hood, Inlet - Air Cleaner 9
- Hose, Flexible - Woodward Governor 19
- Hose, Fuel - Day Tank 26
- Hose, Oil Drain 6
- Housing, Control 34
- Housing, Generator Set 32
- Indicator, Service - Heavy Duty Air Cleaner 9
- Indicator, Service - Standard Air Cleaner 8
- Isolator, Vibration - Control Box 44

Index

- Isolator, Vibration - Day Tank With Pump and Control 26
- Isolator, Vibration - Day Tank Without Pump and Control 25
- Isolator, Vibration - Remote Control Panel 42
- Kit, Repair - Day Tank Pump 26
- Lead - AC Circuit Breaker - Non-UL Approved 72
- Lead - AC Circuit Breaker - UL Approved 70
- Lead, Thermocouple - Pyrometer 49
- Light, Indicator - DC Control Door 47
- Light, Indicator - Day Tank 24
- Light, Indicator - Over/Under Frequency 66
- Light, Indicator - Over/Under Voltage 65
- Light, Indicator - Upper/Lower Scale 46
- Light, Panel - DC Control Door 47
- Line, Fuel - Day Tank With Pump and Control 26
- Line, Fuel - Day Tank Without Pump and Control 25
- Line, Fuel - Supply and Return 6
- Lug, Solderless - Set Grounding 23
- Lug Set - AC Circuit Breaker - Non-UL Approved 72
- Meter, Frequency 46
- Meter, Power Factor 53
- Meter, Time Totalizing 47
- Module, Excitation Loss 59
- Monitor, Engine 44
- Muffler 16
- Paint 3
- Panel, Control - Remote 42
- Panel, Control Housing 34
- Pickup, Magnetic - Electronic Governor 18
- Pickup, Magnetic - Woodward Governor 19
- Pipe, Suction - Day Tank With Pump and Control 26
- Pipe, Suction - Day Tank Without Pump and Control 25
- Potentiometer - Speed Adjusting 58
- Potentiometer - Voltage Adjusting 46
- Pulley, Alternator - 35 Amp - Spec E 20
- Pulley, Alternator - 45 Amp - Spec F 21
- Pump - Day Tank 26
- Pump, Hand 11
- Pyrometer 49
- Radiator 30
- Radiator, Remote 28
- Regulator, Alternator - 35 Amp - Spec E 20
- Regulator, Voltage - Control 44
- Regulator, Voltage - Manual 60
- Regulator, Water - Thermostatic 28
- Relay, Common Alarm 68
- Relay, Frequency - Over/Under 66
- Relay, Power - Engine Coolant Heater 14
- Relay, Pump - Day Tank 24
- Relay, Run 67
- Relay, Start Solenoid 6
- Relay, Thermistor 64
- Relay, Time Delay - Over/Under Frequency 66
- Relay, Time Delay - Over/Under Voltage 65
- Relay, Trip - AC Control Door 55
- Relay, Voltage - Over/Under 65
- Roof, Housing 32
- Rotor, Exciter - Permanent Magnet Exciter 38
- Sender, Low Coolant Level 17
- Sender, Oil Pressure 6
- Sender, Oil Temperature 6
- Sender, Water Temperature 6
- Shroud, Fan 30
- Signal, Audible - AC Control Door 54
- Skid 23
- Starter 22
- Stator, Exciter - Permanent Magnet 38
- Strap, Ground - Control Box 44
- Strip, Marker - Control Box 44
- Switch, Float - Day Tank 26
- Switch, Low Fuel Alarm 11
- Switch, Oil Pressure 6
- Switch, Overspeed 39
- Switch, Pushbutton - Emergency Stop 47
- Switch, Rocker - DC Control Door 47
- Switch, Rocker - Day Tank 24
- Switch, Rotary - Voltmeter/Ammeter 46
- Switch, Rupture Basin 26
- Switch, Temperature - Low Engine Coolant 6
- Switch, Thermostat - High Engine Coolant Temperature 6
- Switch, Toggle - Compensation Circuit 61
- Tachometer 57
- Tank, Day - With Pump and Control 26
- Tank, Day - Without Pump and Control 25
- Terminal Assembly (T26) 6
- Thermostat, Engine Coolant Heater - Spec E Through Early Portion of Spec F 13
- Thermostat, Engine Coolant Heater - Use Began During Later Portion of Spec F 14
- Thermostat, Heater - Control 48
- Transducer, Watts - Power Factor Meter 53
- Transducer, Watts - Wattmeter 56
- Transformer - Day Tank 24
- Transformer, Current - Cross Current 61
- Transformer, Current - Generator Leads 69
- Transformer, Current - Power Factor Controller 52
- Transformer, Isolation - Control 44
- Transformer, Potential - Auxiliary Terminal Block 62
- Trip - AC Circuit Breaker - Non-UL Approved 72
- Tube, Fuel Supply - Woodward Governor 19
- Tube, Radiator - Inlet and Outlet 30
- Tubing, Exhaust 16
- Valve, Float - Day Tank 25
- Valve, Shutoff - Fuel Pressure Gauge 12
- Valve, Shutoff - Oil Drain 6
- Voltmeter - AC 46
- Voltmeter - DC 47
- Wattmeter 50
- Wrapper, Fan 30

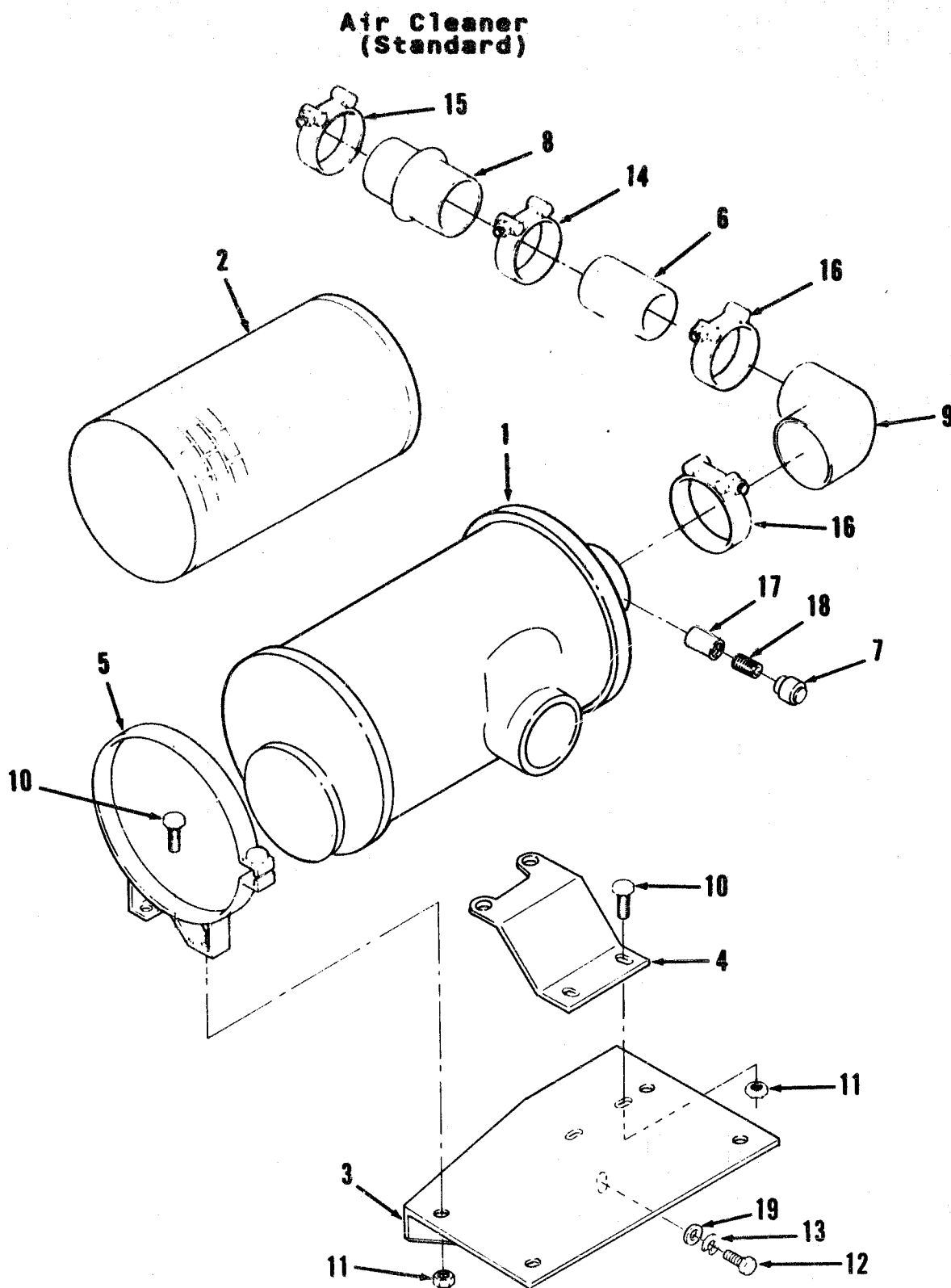
External Engine Parts



External Engine Parts

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0185	2	Nipple, Half - Pipe (1/2" x 1-1/2")	21	870-0196	1	*Nut, Insulation
2	503-0197	2	Clamp, Hose	22	332-1281	1	*Bracket, Terminal
3	503-0200	1	Hose, Oil Drain	23	800-0270	1	Screw, Cap - Hex Head (3/8-24 x 5/8")
4	504-0011	1	Valve, Shutoff	24	309-0272	1	Switch, Pressure - Oil - Closes at 20 lbs. Descending (S5 - Pre-Alarm)
5	505-0100	2	Nipple, Close - Pipe (1/2" x 1-1/8")	25	309-0561	1	Switch, Pressure - Oil - Closes at 14 lbs. Descending (S1)
6	505-0040	1	Elbow, Pipe - 90° (1/2")	26	505-0151	1	Bushing, Reducer - Pipe (1/2" to 1/8")
7	102-1335	1	Plug, Oil Drain (Special)	27	193-0353	1	Sender, Temperature - Oil (E4)
8	508-0292	1	Washer, Sealing - Copper	28	193-0244	1	Sender, Pressure - Oil (E1)
9	800-0062	1	Screw, Cap - Hex Head (3/8-16 x 4")	29	800-0049	1	Screw, Cap - Hex Head (3/8-16 x 7/8")
10	309-0269	1	Switch, Temperature - Low Engine Coolant (S4)	30	801-0048	2	Screw, Cap - Hex Head (3/8-24 x 3/4")
11	850-0050	1	Washer, Lock - Spring (3/8")	31	850-0050	3	Washer, Lock - Spring (3/8")
12			Bushing, Reducer - Pipe (3/4" to 1/2")	32	505-0098	1	Nipple, Pipe (1/8" x 3/4")
	505-0021	1	DFBC,DFBD,DFBE,DFBF	33	505-0026	1	Coupling, Pipe (1/8")
	505-0021	2	DFCB,DFCC	34	518-0548-08	3	Clip
13	505-0117	2	Bushing, Reducer - Flush Face (1/2" to 3/8")	35			Line, Fuel - Flexible
14	309-0437	1	Switch, Thermostat - High Engine Coolant Temperature (Opens at 202°F - Closes at 222°F)(S2)		501-0084	1	Fuel Supply (36")
15	309-0179	1	Switch, Thermostat - High Engine Coolant Temperature (Opens at 190°F - Closes at 215°F)(S6 - Pre-Alarm)		501-0216	1	Fuel Return (42")
16	193-0375	1	Sender, Temperature - Water (E2)	36	307-2167	1	Relay, Solenoid - Start
17	856-0010	2	Washer, Lock - EIT (3/8")	37	821-0010	1	Screw, Locking - Hex Washer Head (1/4-20 x 1/2")
18	332-1292	1	Terminal Assembly (Includes Parts Marked *) (T26)	38	856-0006	2	Washer, Lock - EIT (1/4")
19	809-0036	1	*Screw, Sheet Metal - Round Head (#8 x 7/8")	39	862-0013	1	Nut, Hex (1/4-20)
20	508-0015	1	*Washer, Fiber	40	526-0066	1	Washer, Flat (3/8") (Use as required)

* - Parts Included in 332-1292 Terminal Assembly.

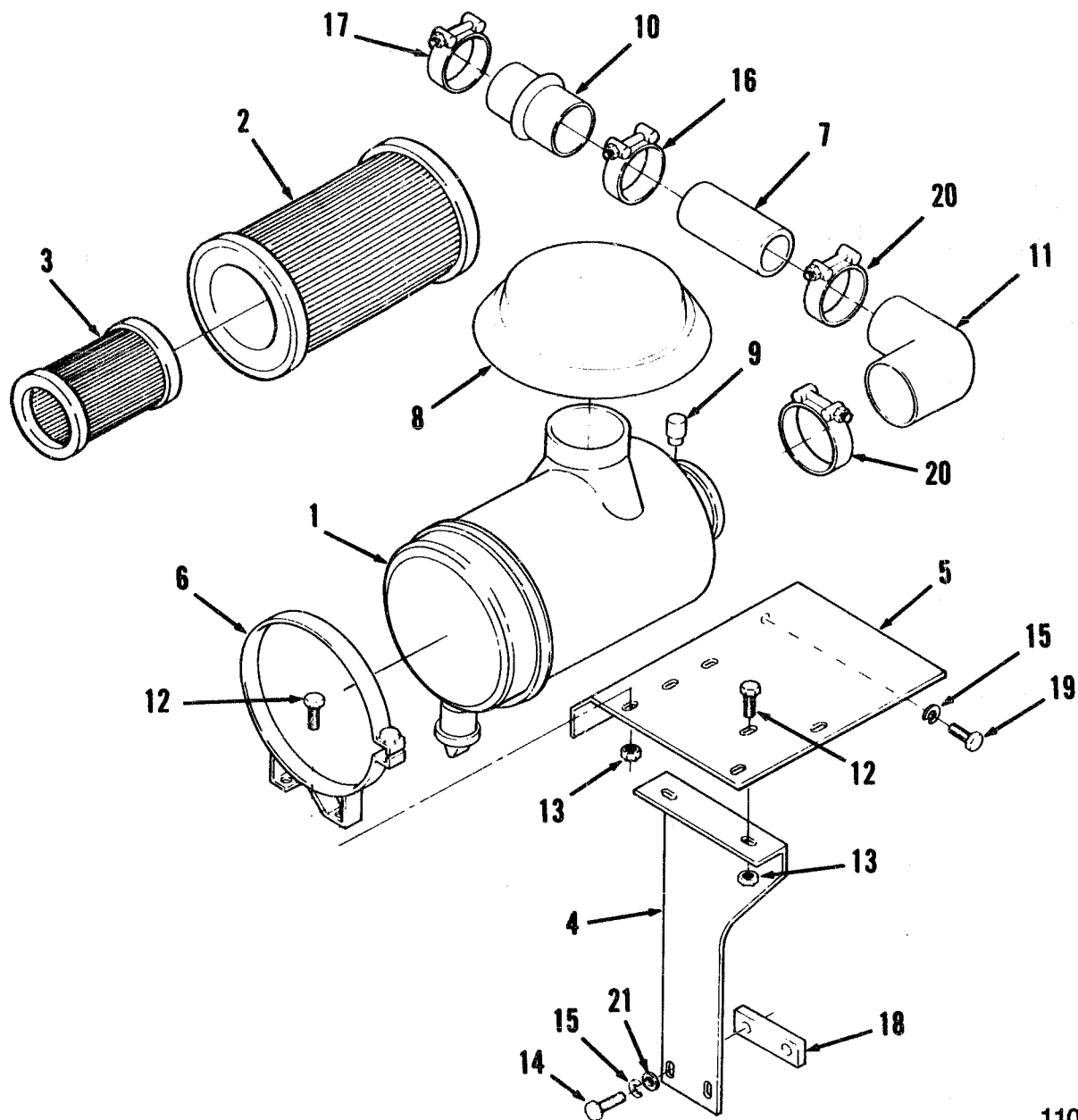


1104B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2389	1	Cleaner, Air - Includes Element
2	140-2391	1	Element, Air Cleaner
3	140-2385	1	Bracket, Mounting
4	140-2384	1	Bracket, Mounting
5	140-1973	2	Band, Mounting
6	140-2519	1	Tube, Air Inlet
7	140-1548	1	Indicator, Service
8	503-1675	1	Hose, Reducer - Rubber
9	503-0970	1	Elbow - 90°
10	821-0029	6	Screw, Locking - Hex Washer Head (3/8-16 x 3/4")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	870-0281	6	Nut, Locking (3/8-16)
12	801-0119	2	Screw, Cap - Hex Head (5/8-18 x 1")
13	850-0070	2	Washer, Lock - Spring (5/8)
14	503-1488	1	Clamp, Hose - T-Bolt (1-1/2" ID)
15	503-0863	1	Clamp, Hose - T-Bolt (6" ID)
16	503-0881	2	Clamp, Hose - T-Bolt (7-3/4" ID)
17	505-0026	1	Coupling, Pipe (1/8")
18	505-0098	1	Nipple, Close - Pipe (1/8")
19	526-0112	2	Washer, Flat (5/8")

Air Cleaner (Heavy Duty)

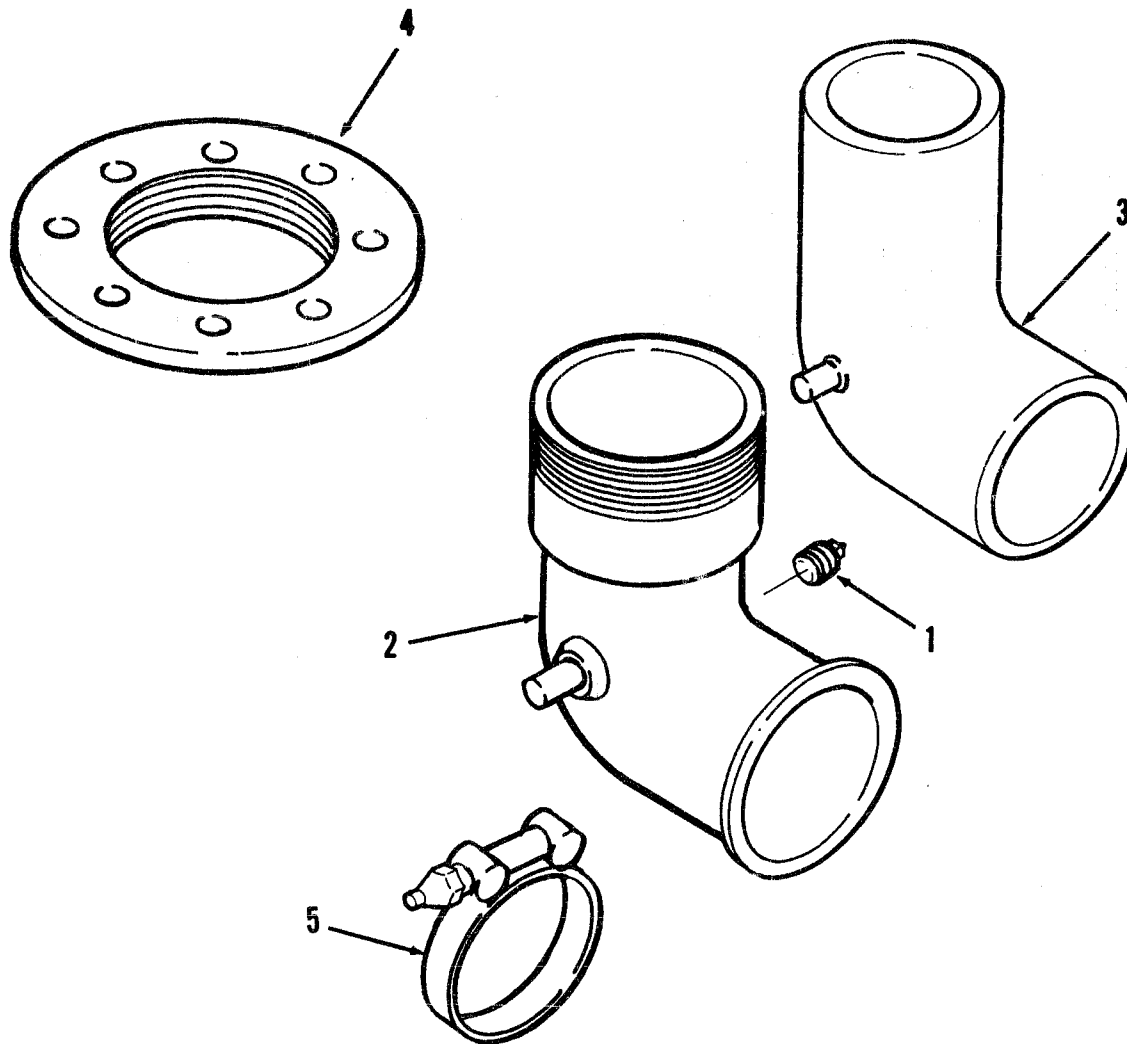


1105B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2390	1	Cleaner, Air - Includes Elements
2	140-2392	1	Element - Primary
3	140-2393	1	Element - Secondary
4	140-2386	1	Bracket, Mounting
5	140-2387	1	Bracket, Mounting
6	140-2052	2	Band, Mounting
7	140-2395	1	Tube, Air Inlet
8	140-1545	1	Hood, Air Inlet
9	140-1548	1	Indicator, Service
10	503-1675	1	Hose, Reducer - Rubber
11	503-0970	1	Elbow - 90°
12	821-0029	6	Screw, Locking - Hex Washer Head (3/8-16 x 3/4")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
13	870-0281	6	Nut, Locking (3/8-16)
14	800-0132	2	Screw, Cap - Hex Head (5/8-11 x 1-1/2")
15	850-0070	4	Washer, Lock - Spring (5/8")
16	503-1488	1	Clamp, Hose - T-Bolt (7-1/2" ID)
17	503-0863	1	Clamp, Hose - T-Bolt (6" ID)
18	140-2388	1	Spacer, Mounting
19	801-0119	2	Screw, Cap - Hex Head (5/8-18 x 1")
20	503-0881	2	Clamp, Hose - T-Bolt (7-3/4" ID)
21	526-0112	2	Washer, Flat (5/8")

Exhaust Elbow

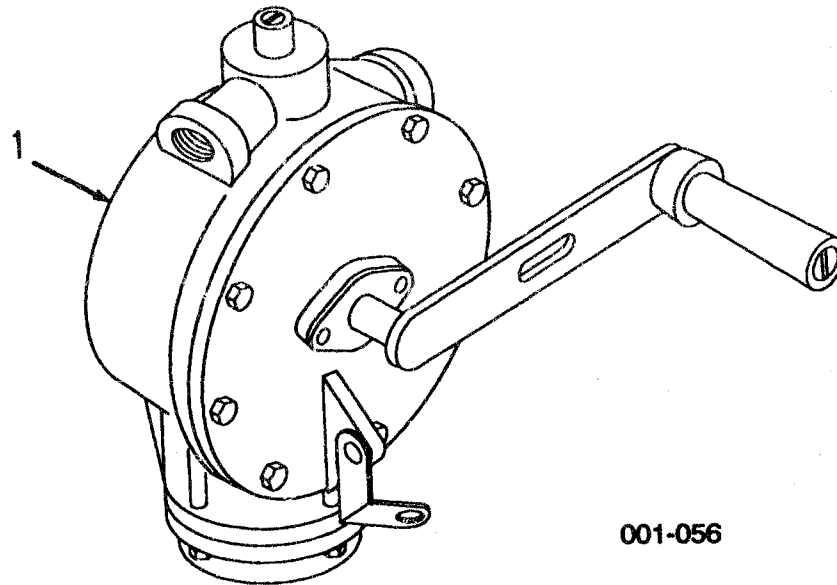


1008A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-0080	1	Plug - Square Head (1/8") (Quantity Used as Required)
2	155-2409	1	Elbow, Exhaust
3	155-1241	1	Elbow, Exhaust

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	155-0658	1	Flange (Not Used on All Models)
5	503-1575	1	Clamp, V Band

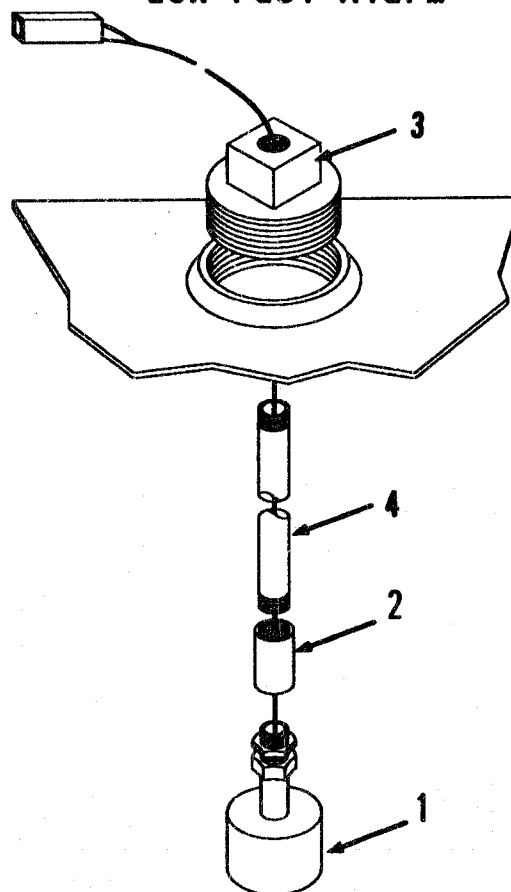
Hand Pump



001-056

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2339	1	Pump, Hand

Low Fuel Alarm

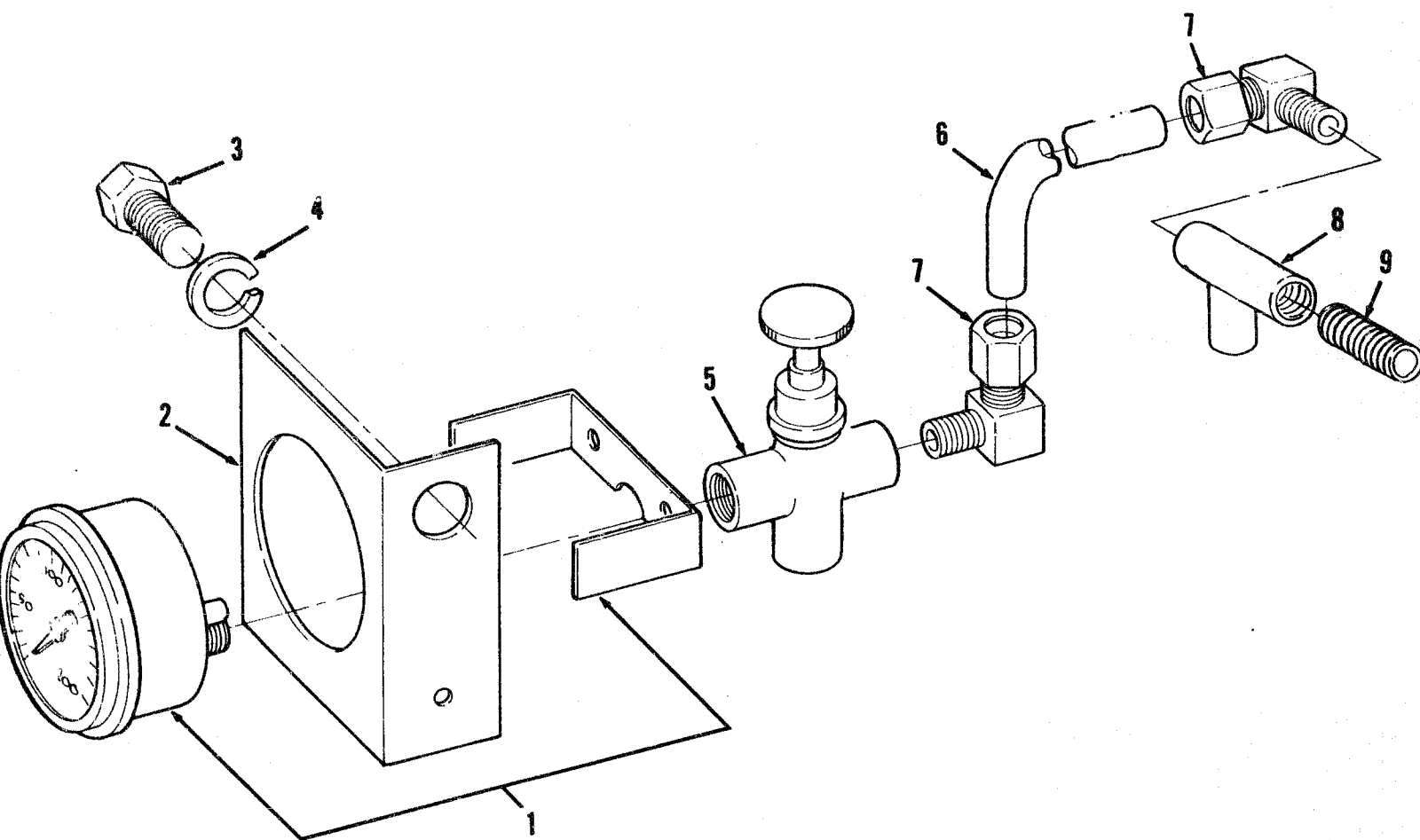


001-060

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

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4			Nipple, Pipe (1/8")
	505-1458-04	1	5-3/4"
	505-1458-03	1	14-7/16"
	505-1458-05	1	25-3/4"

Fuel Pressure Gauge

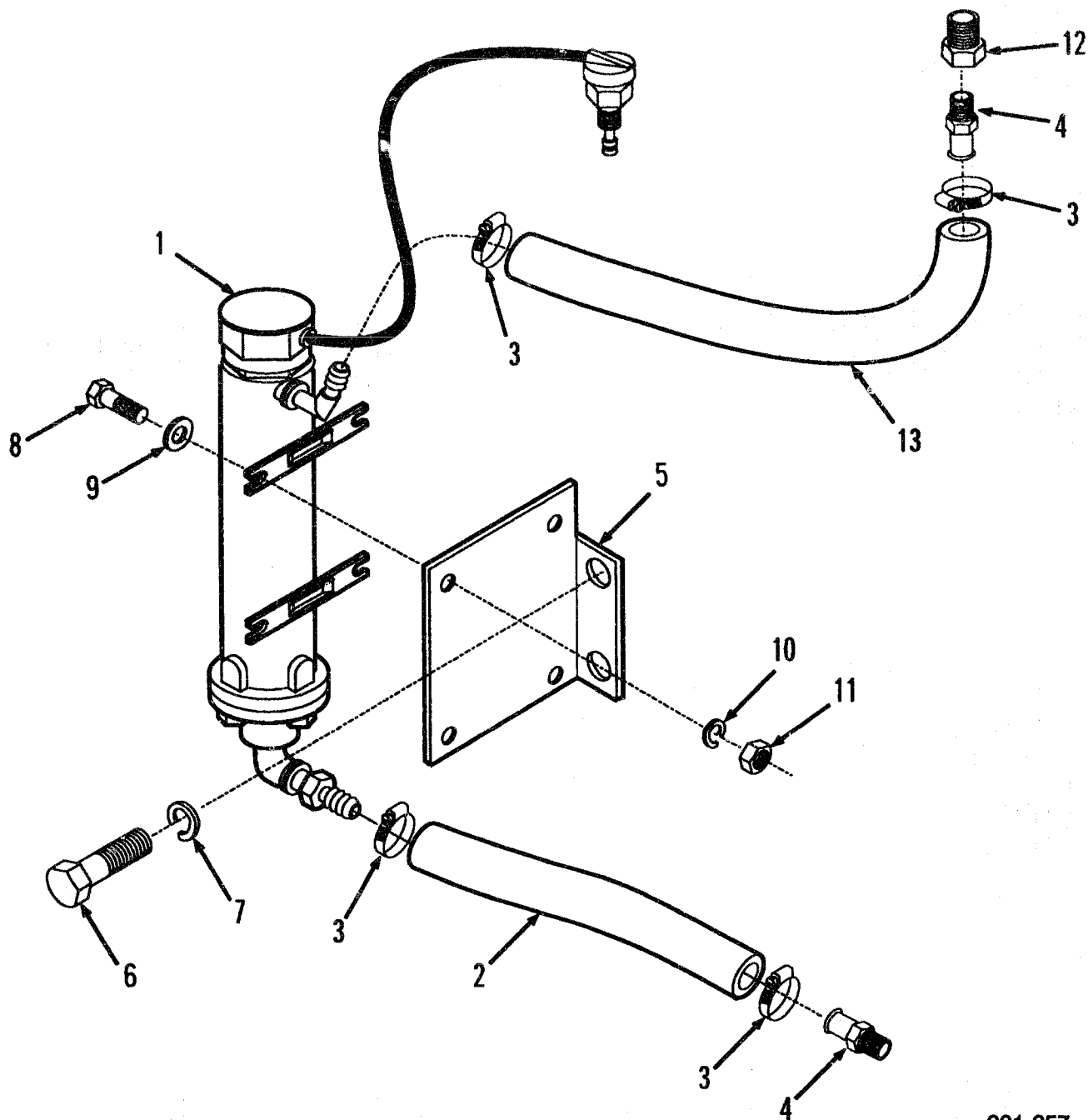


1101A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0128	1	Gauge, Pressure (Includes Mounting Hardware)
2	193-0029	1	Bracket, Mounting
3	800-0130	1	Screw, Cap - Hex Head (5/8-11 x 1")
4	850-0070	1	Washer, Lock - Spring (5/8")
5	504-0064	1	Valve

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	370-4003	1	Tube, Copper
7	502-0034	2	Elbow, Compression - 90° (Includes Nut and Ring)
8	505-0059	1	Tee, Pipe (1/8") (DFCB, DFCC)
9	505-0098	1	Nipple, Pipe (1/8" x 3/4") (DFCB, DFCC)

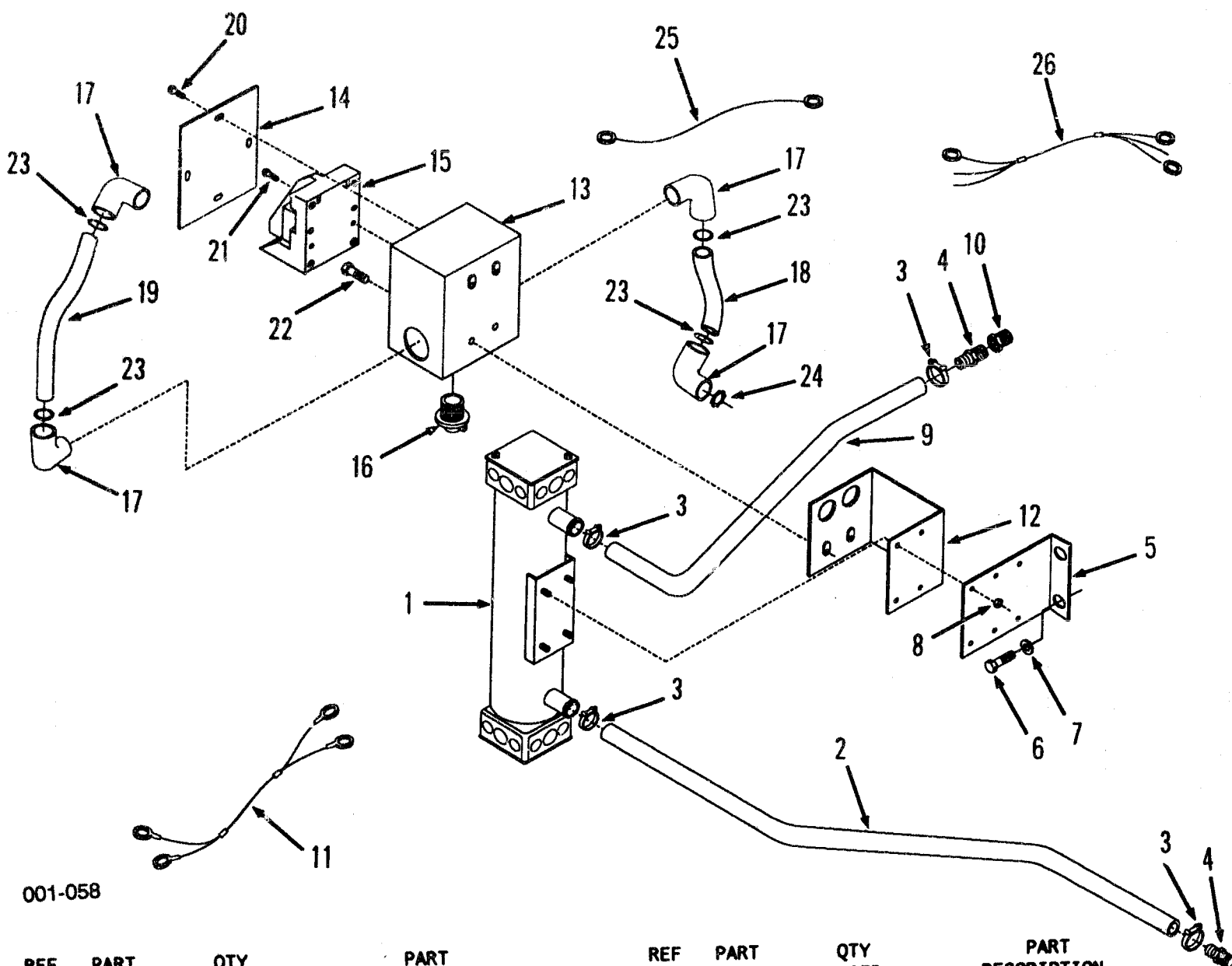
**Engine Coolant Heater
(Spec E Through Early Portion of Spec F)**



001-057

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0420-01	1	Heater, Coolant (2500 Watts) (120, 208, 240 Volts) Heater Service Parts (Not Illustrated):	6	800-0130	2	Screw, Cap - Hex Head (5/8-11 x 1")
	333-0464	1	Harness	7	850-0070	2	Washer, Lock - Spring (5/8")
	333-0465	1	Element	8	800-0006	4	Screw, Cap - Hex Head (1/4-20 x 7/8")
	333-0466	1	Thermostat	9	526-0018	4	Washer, Flat (1/4")
	333-0467	1	Outlet Assembly	10	850-0040	4	Washer, Lock - Spring (1/4")
2	503-1779	-	Hose, Inlet - Bulk (1"ID) (Order by the foot - 4' required)	11	862-0001	4	Nut, Hex (1/4-20)
3	503-1137	4	Clamp, Hose	12	505-0129	1	Bushing, Reducer - Pipe (1" to 3/4")
4	502-0971	2	Connector, Hose	13	503-1779	-	Hose, Outlet - Bulk (1"ID) (Order by the foot - 2' required)
5	130-3520	1	Bracket, Mounting				

Engine Coolant Heater
(Use Began During Later Portion of Spec F)

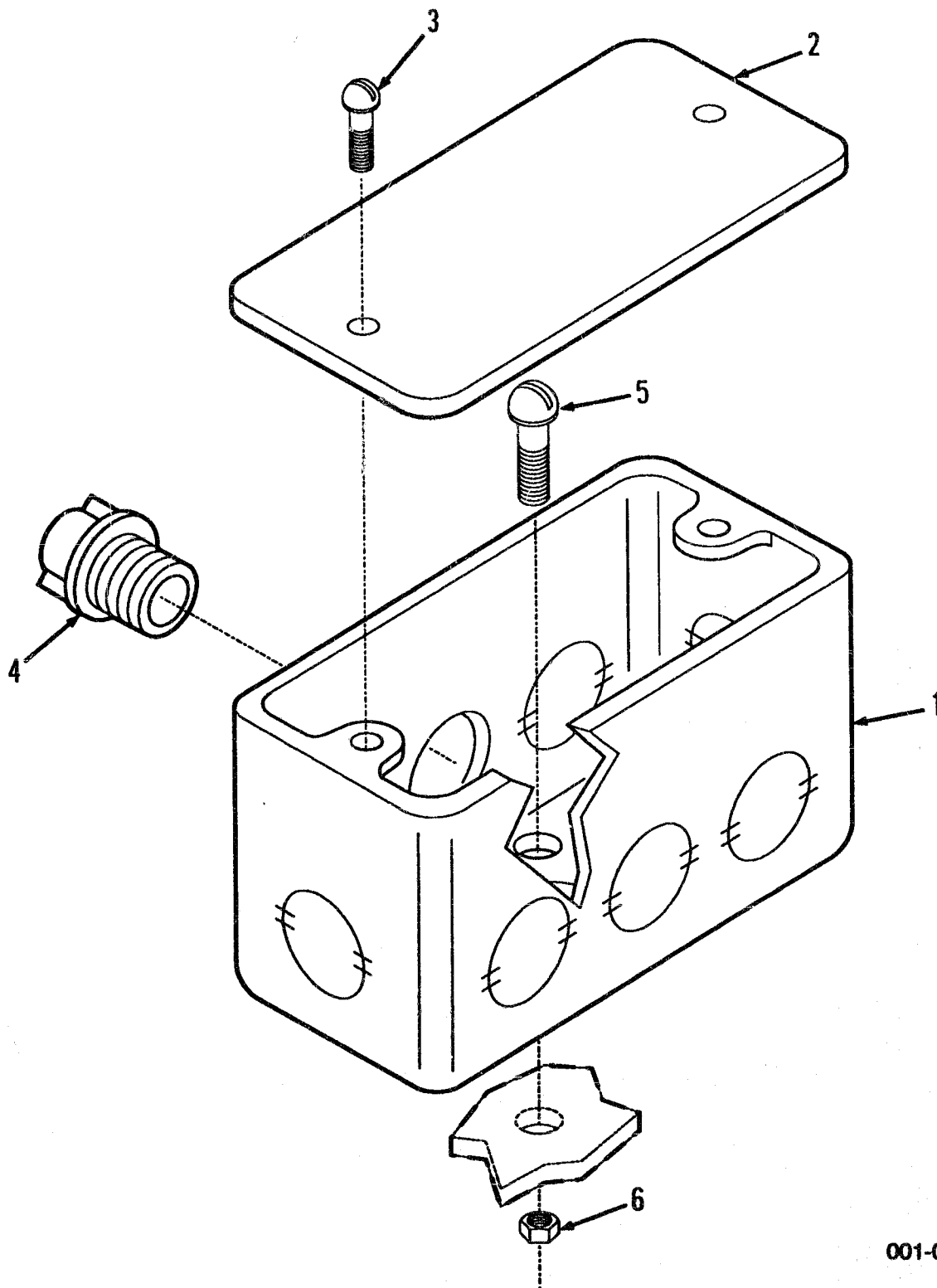


001-058

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater, Coolant (4000 Watt) (Includes Thermostat and Parts Marked *)	12	130-4083	1	*Bracket, Mounting
	333-0512-02	1	120 Volt	13	130-4079	1	*Box, Relay
	333-0512-01	1	208, 240, 480 Volt	14	130-4082	1	*Cover, Box
	333-0468	1	Thermostat, Heater (Service Replacement) (Not Illustrated)	15	307-2762	1	*Relay, Power
2	503-1779	-	Hose, Inlet - Bulk (1"ID) (Order by the foot - 4' required)	16	331-0027	1	*Connector, Romex (3/8")
3	503-1137	4	Clamp, Hose	17	331-0010	4	*Connector, Elbow (1/2 x 90")
4	502-0971	2	Connector, Hose	18	331-0531-01	1	*Conduit, Flexible (5-5/16")
5	130-3719	1	Bracket, Mounting	19	331-0531-02	1	*Conduit, Flexible (11-1/2")
6	800-0130	2	Screw, Cap - Hex Head (5/8-11 x 1")	20	813-0100	4	*Screw, Machine - Round Head (#10-32 x 1/2")
7	850-0070	2	Washer, Lock - Spring (5/8")	21	813-0103	2	*Screw, Machine - Round Head (#10-32 x 3/4")
8	870-0212	4	Nut, Locking - Hex Head (1/4-20)	22	821-0010	2	*Screw, Locking - Hex Head (1/4-20 x 1/2")
9	503-1779	-	Hose, Outlet - Bulk (1"ID) (Order by the foot - 2' required)	23	331-0533	4	*Bushing, Anti Short (1/2")
10	505-0129	1	Bushing, Reducer - Pipe (1" to 3/4")	24	331-0532	1	*Locknut, Sealing (1/2")
11	338-2760-03	1	Harness, Wiring - Heater (45")(K1, K2 to T26, and ENG-GRD)	25	226-4390-01	1	*Lead, Power Relay 23" (1L1 to K-3)
					226-4390-02	1	17" (K6 to TH 1L1)
					226-4390-03	1	35" (TH HTR to HTR)
				26	338-2446	1	Harness, Wiring - Heater (60")(GRD, BLACK, WHITE to GRD-GRD, HTR-TH HTR-EL)

* - Parts Included in Coolant Heater

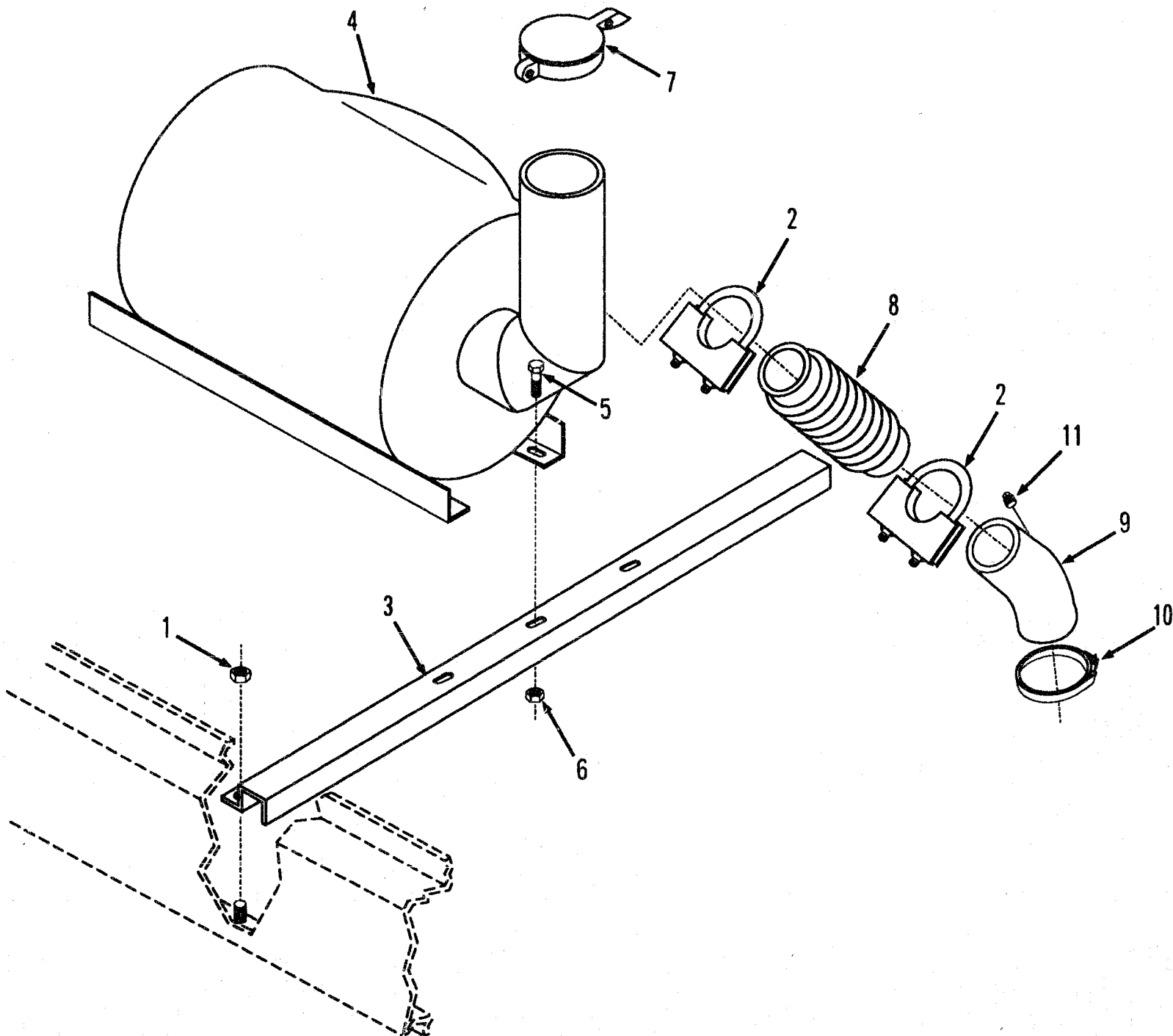
Junction Box (Engine Coolant Heater)



001-059

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)

Muffler (Housed Sets)

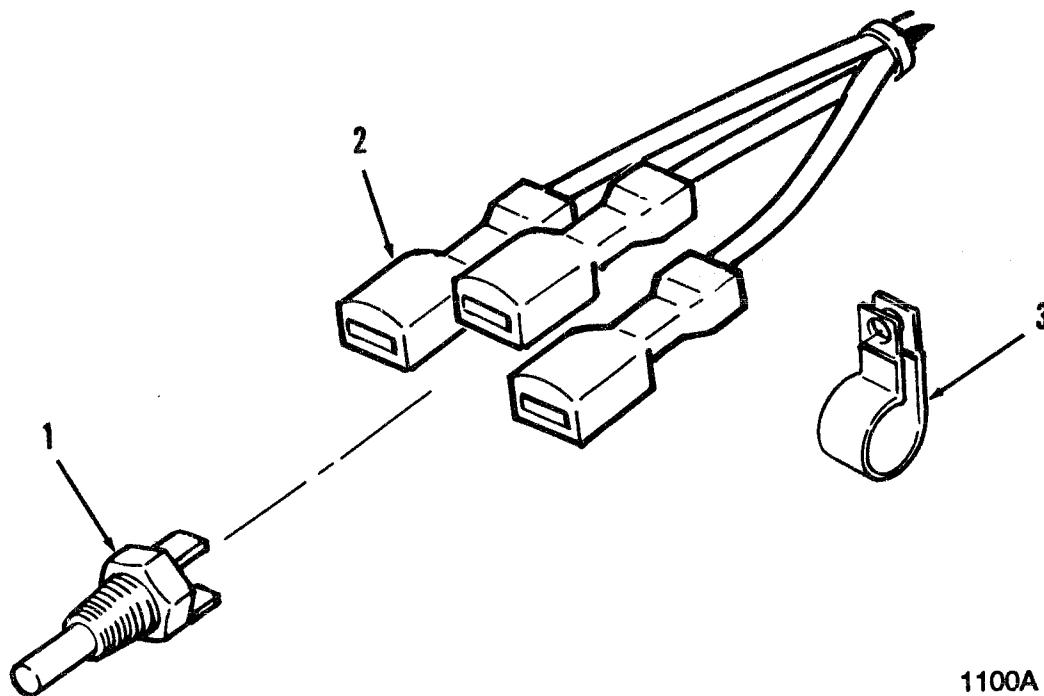


001-061

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0257	4	Nut, Locking - Hex Head (5/16-18)
2	155-2159	2	Clamp, Muffler
3	155-2408	2	Bracket, Mounting Muffler
4	155-2405	1	All Except DFCC
	155-2406	1	DFCC
5	821-0033	4	Screw, Locking - Hex Washer Head (7/16-14 x 3/4")

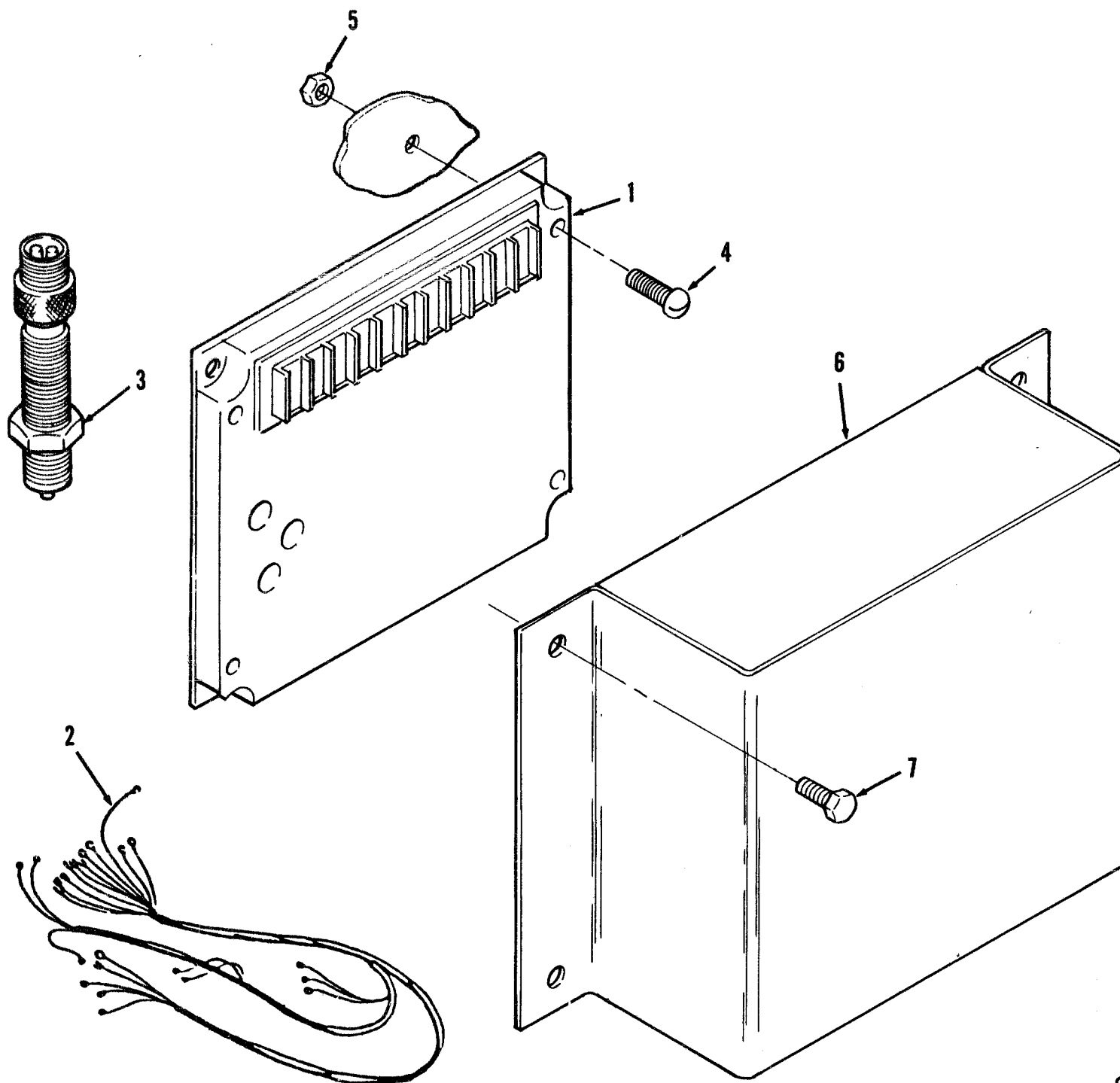
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	870-0437	4	Nut, Locking - Hex Head (7/16-14)
7	155-2062-05	1	Cap, Rain
8	155-2407	1	Tubing, Flexible
9	155-1241	1	Elbow, Exhaust
10	503-1575	1	Clamp, V Band
11	502-0080	1	Plug - Square Head (1/4")

Low Coolant Level Sender



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0322	1	Sender - Low Coolant Level (S7)
2	338-1919	1	Harness, Wiring
3	518-0350	1	Clamp, Insulated

Electronic Governor

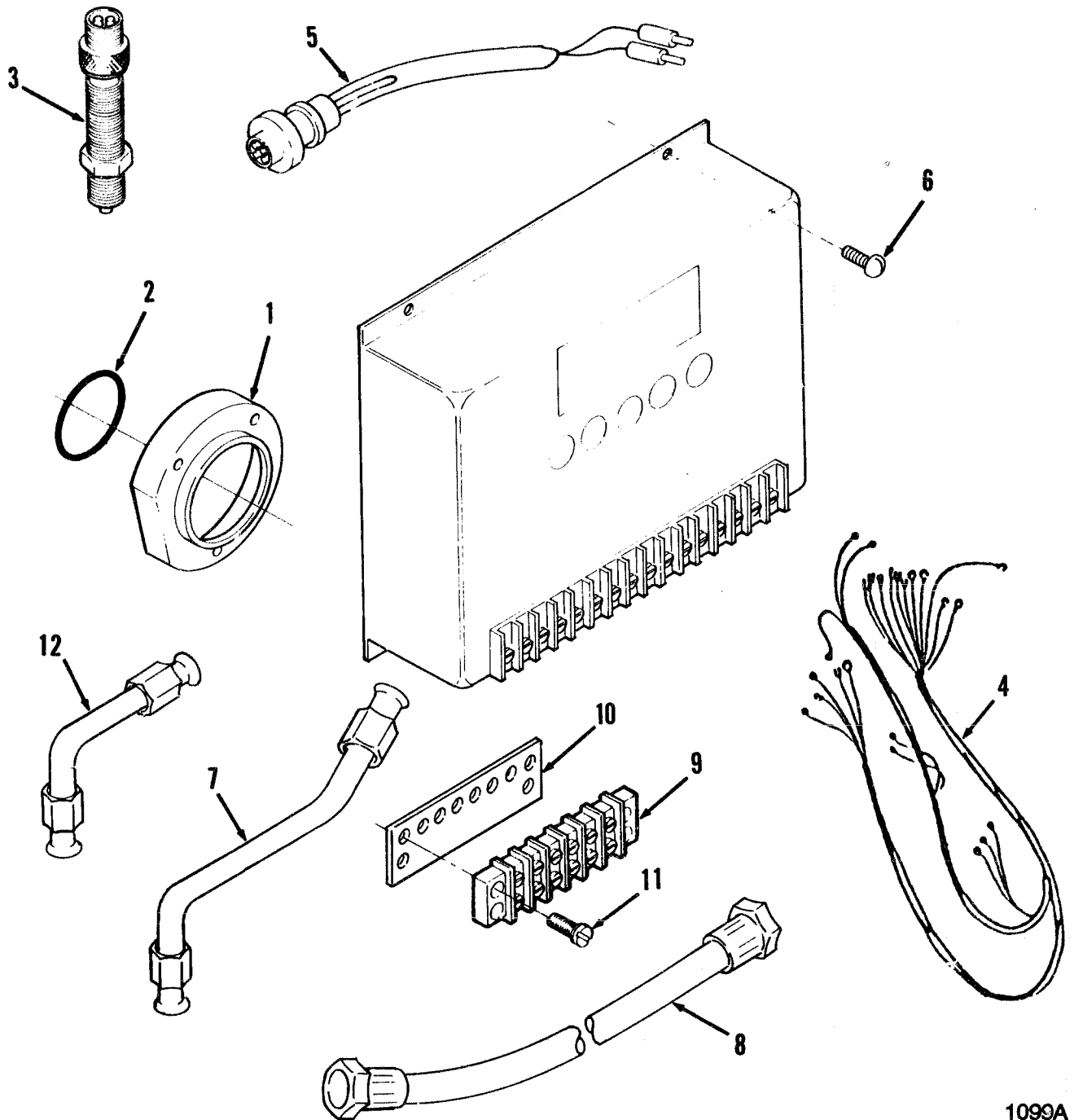


949B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	151-0637	1	Control, Governor
2	338-2444	1	Harness, Wiring - Governor Control (56")
3	151-0411	1	Pickup, Magnetic
4	813-0103	4	Screw, Machine - Round Head (#10-32 x 3/4")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	870-0131	4	Nut, Hex - With ET (#10-32)
6	150-2213	1	Cover, Control
7	821-0010	4	Screw, Locking - Hex Head (1/4-20 x 1/2")

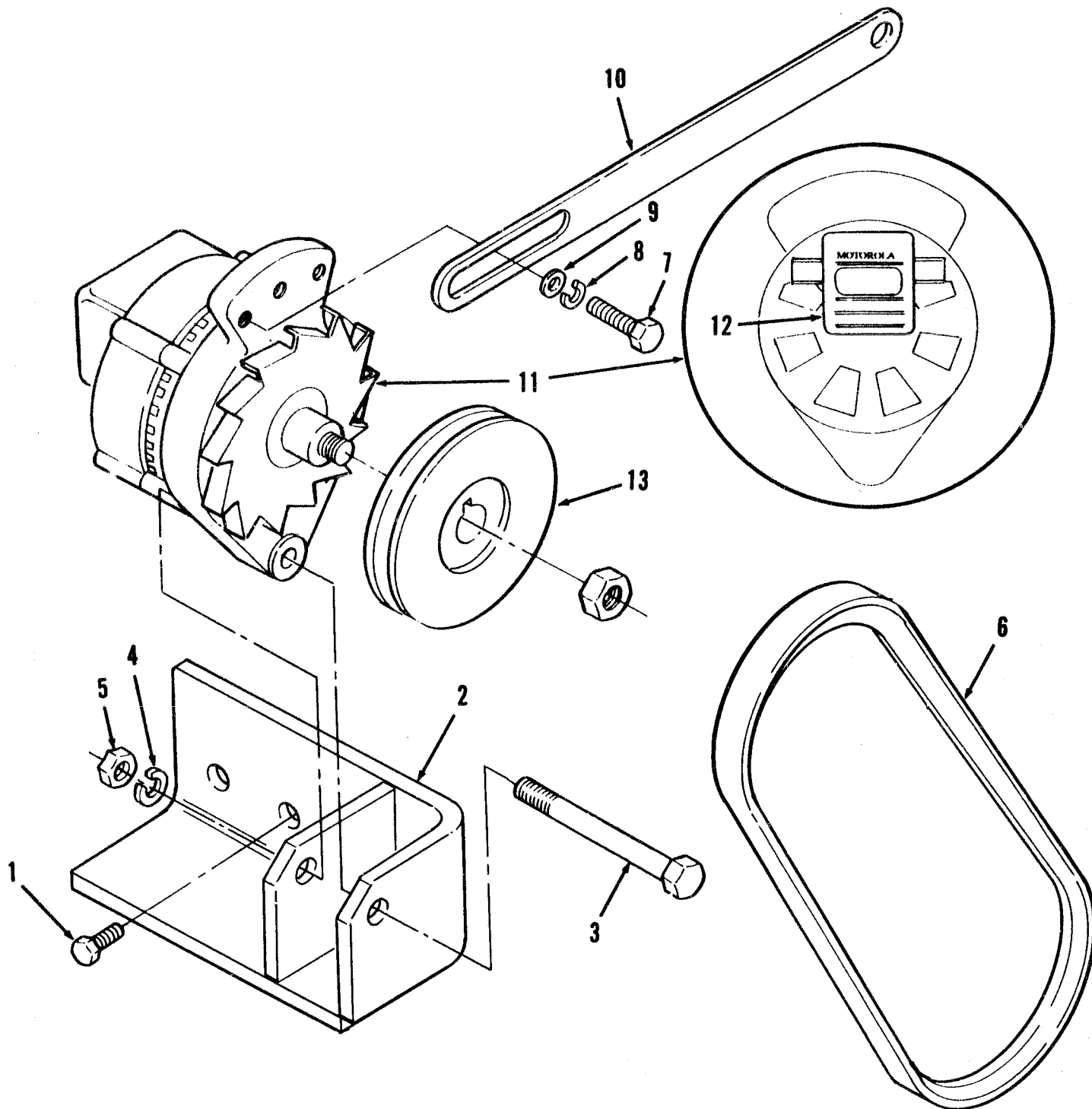
Woodward Governor



1099A

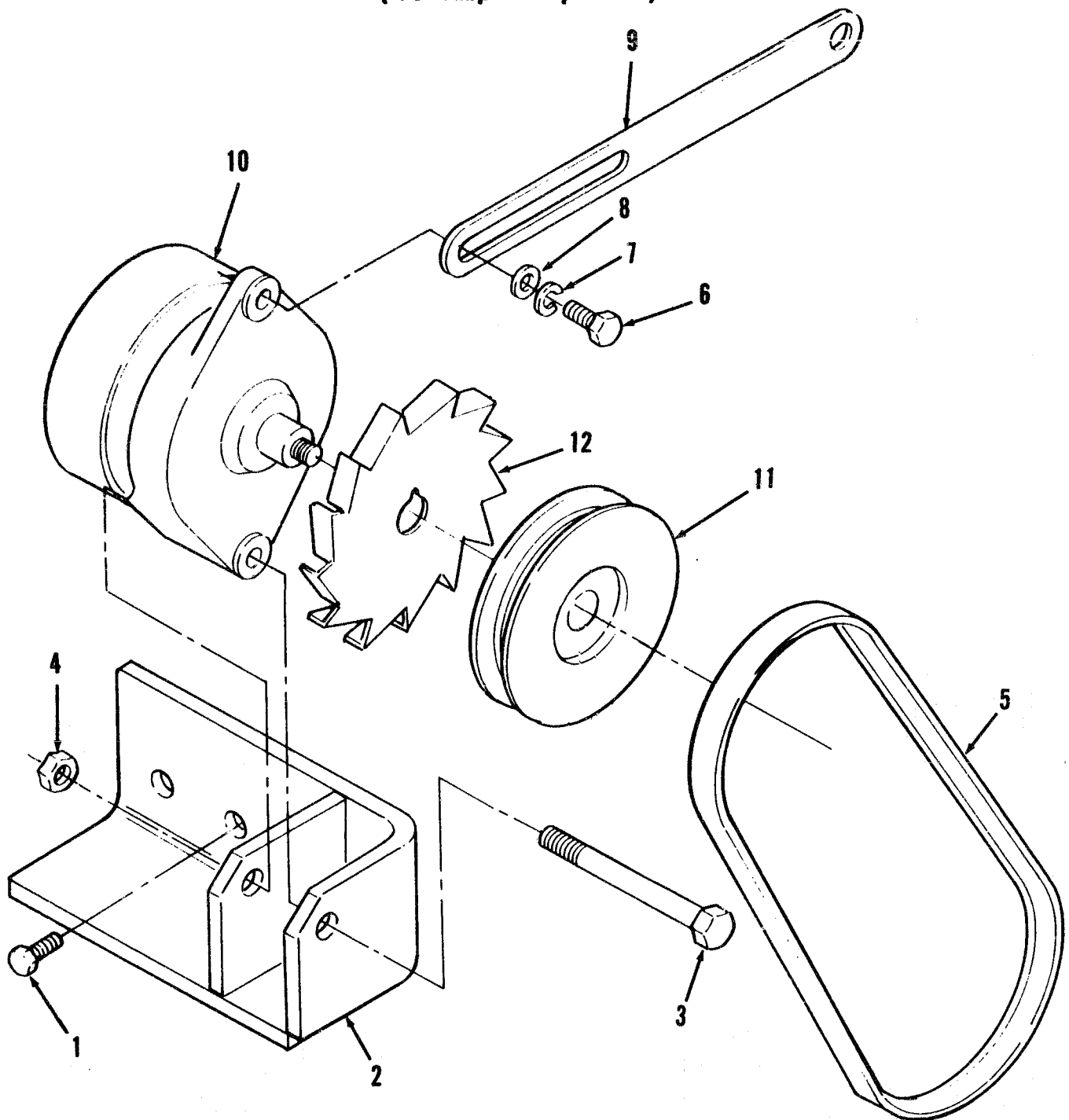
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2334	1	Plug - Fuel Pump EFC Cavity	8	501-0537-47	1	Hose, Flexible (20")
2	509-0272-02	1	Seal, O-Ring - EFC Cavity Plug	9	332-0699	1	Block, Terminal (6 Place)
3	151-0411	1	Pickup, Magnetic	10	332-0970	1	Strip, Marker (6 Place)
4	338-2444	1	Harness, Wiring - Governor Control	11	822-1050	2	Screw, Machine - Pan Head (#8-32 x 3/4")
5	338-2538	1	Harness, Adapter - Woodward Governor to Engine Harness (12")	12	149-2302	1	Tube, Fuel Supply (Used only with check valves) (Also Available from Cummins as Part Number 3025634)
6	813-0103	4	Screw, Machine - Round Head (#10-32 x 3/4")				
7	149-2176	1	Tube, Fuel Supply (Also Available from Cummins as Part Number 3025634)				

Alternator (35 Amp - Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0029	2	Screw, Locking - Hex Washer Head (3/8-16 x 3/4")	8	850-0045	1	Washer, Lock - Spring (5/16")
2	191-1929	1	Bracket, Mounting	9	526-0030	1	Washer, Flat (5/16")
3	800-0095	1	Screw, Cap - Hex Head (1/2-13 x 2-1/4")	10	191-0869	1	Bracket, Adjusting
4	850-0060	1	Washer, Lock - Spring (1/2")	11	191-0688	1	Alternator (24 Volt DC, 35 Amp) (Includes Regulator)
5	862-0016	1	Nut, Hex (1/2-13)	12	191-1635	1	Regulator
6	511-0084	1	Belt	13	191-0781	1	Pulley
7	800-0030	1	Screw, Cap - Hex Head (5/16-18 x 1-1/4")				

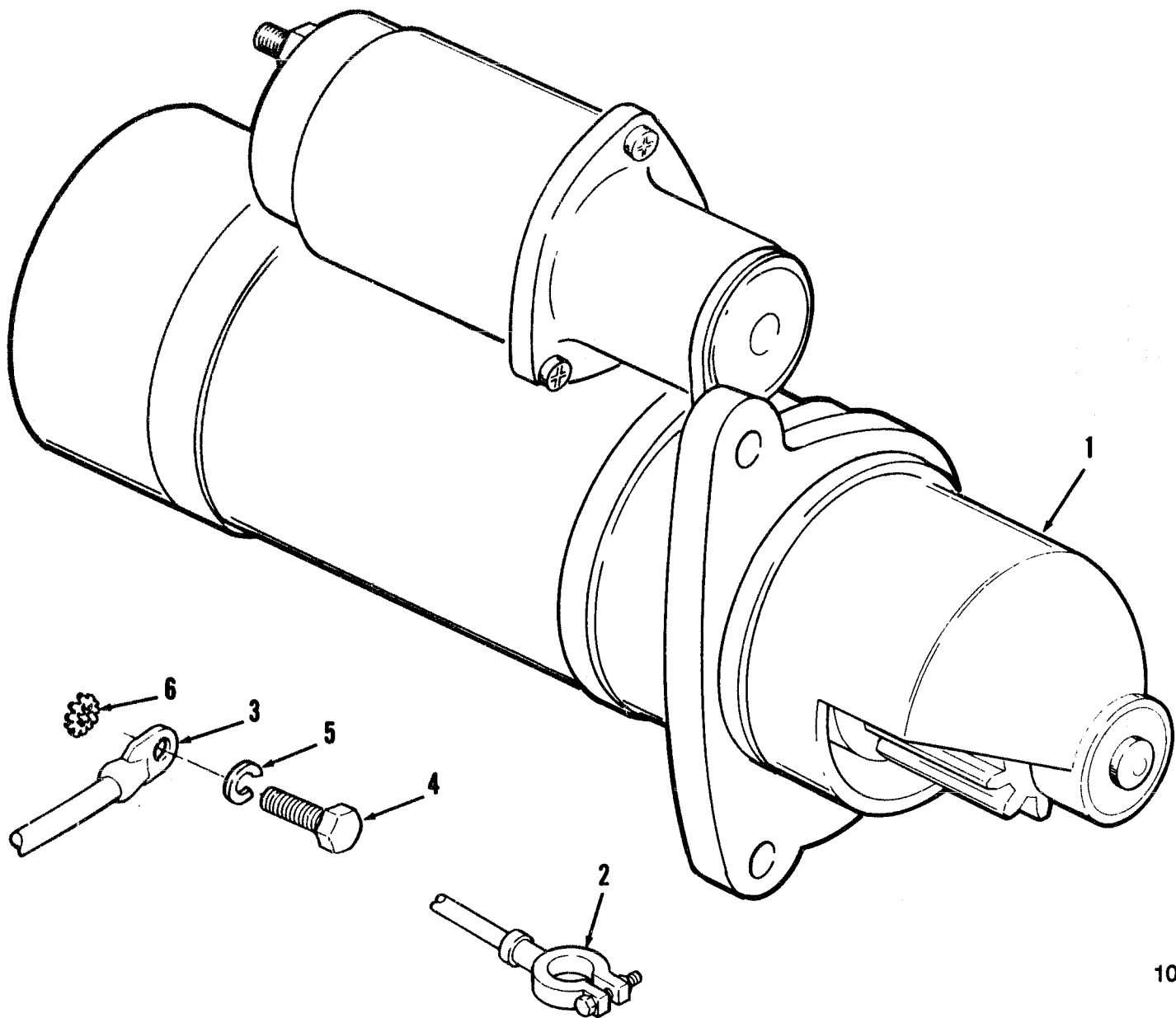
**Alternator
(45 Amp - Spec F)**



1102A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0029	2	Screw, Locking - Hex Washer Head (3/8-16 x 3/4")	7	850-2008	1	Washer, Lock - Spring (M8)
2	191-1980	1	Bracket, Mounting	8	526-0030	1	Washer, Flat (3/8")
3	800-2097	1	Screw, Cap - Hex Head (M10 x 80mm)	9	191-1977	1	Bracket, Adjusting Alternator (24 Volt DC, 45 Amp)
4	750-1008	1	Nut, Hex (M10)	10	191-1983-02	1	Pulley
5	511-0092	1	Belt	11	191-1982	1	Fan
6	800-2058	1	Screw, Cap - Hex Head (M8 x 25mm)	12	191-1981	1	

Starter

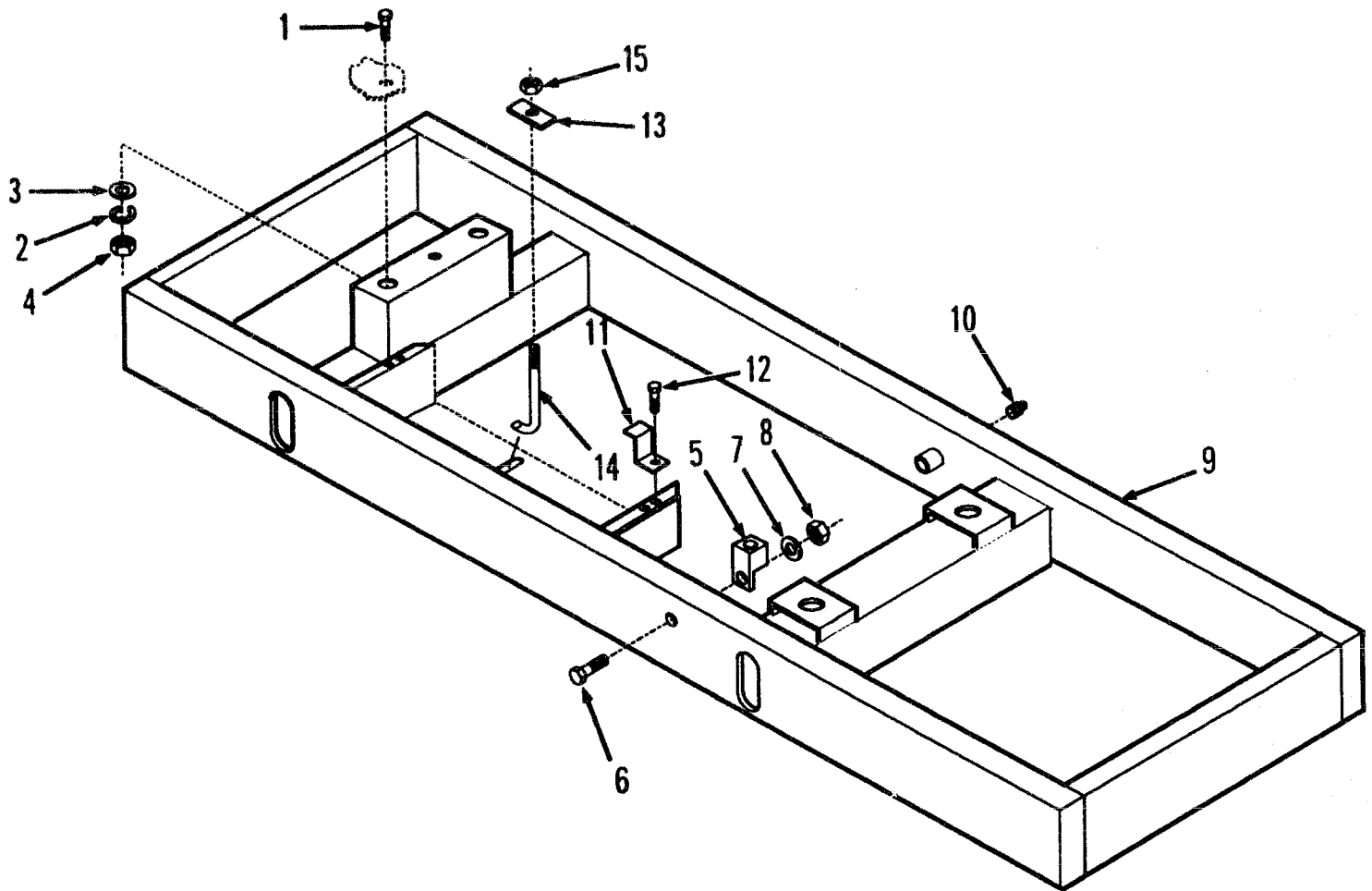


1094A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-1588	1	Starter (24VDC)
2	416-0446	1	Cable, Battery
	416-0619	1	12-1/2" (Jumper)
	416-0444	1	18" (Battery to Ground)
	416-0444	1	44" (Battery to Starter)
3	416-0632	1	Cable, Battery - 14-1/2" (Starter to Ground)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	800-0090	2	Screw, Cap - Hex Head (1/2-13 x 1")
5	850-0060	2	Washer, Lock - Spring (1/2")
6	856-0013	2	Washer, Lock - EIT (1/2")

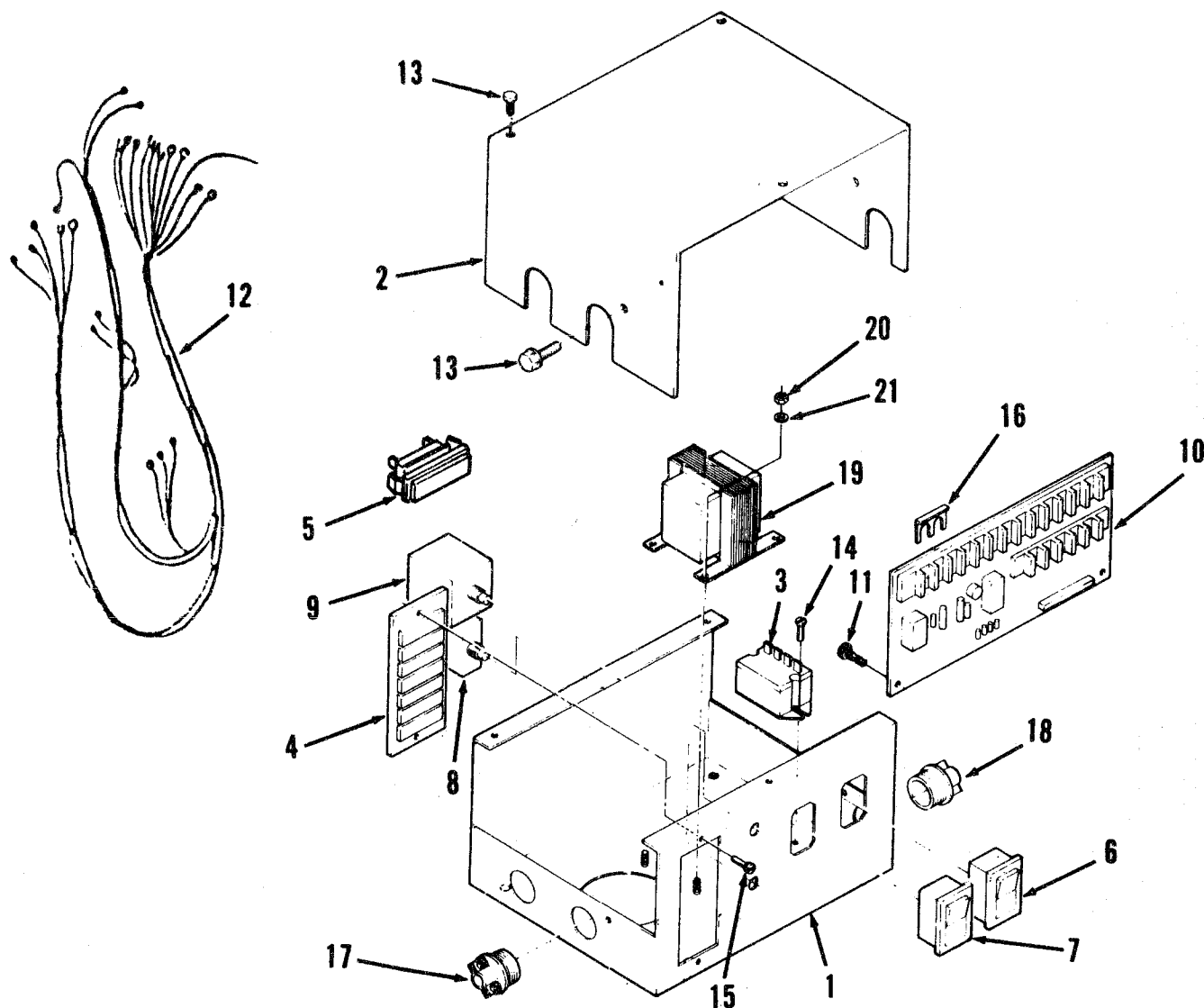
Skid



001-062

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0138	2	Screw, Cap - Hex Head (5/8-11 x 3")	9		1	Skid
2	850-0070	2	Washer, Lock - Spring (5/8")		403-3066	1	44" x 142"
3	526-0198	2	Washer, Flat (5/8")		403-2904	1	50" x 142"
4	862-0007	2	Nut, Hex (5/8-11)	10	505-1379	1	Plug, Pipe (1/2")
5	332-1473	1	Lug, Solderless - Grounding	11	416-0850	2	Bracket, Battery
6	800-0026	1	Screw, Cap - Hex Head (5/16-18 x 3/4")	12	800-0048	2	Screw, Cap - Hex Head (3/8-16 x 3/4")
7	856-0008	1	Washer, Lock - EIT (5/16")	13	416-0975-01	1	Bracket, Mounting - Battery
8	870-0257	1	Nut, Locking - Hex Head (5/16-18)	14	416-0853	1	Holddown, Battery
				15	870-0212	1	Nut, Locking - Hex Head (1/4-20)

Day Tank Control

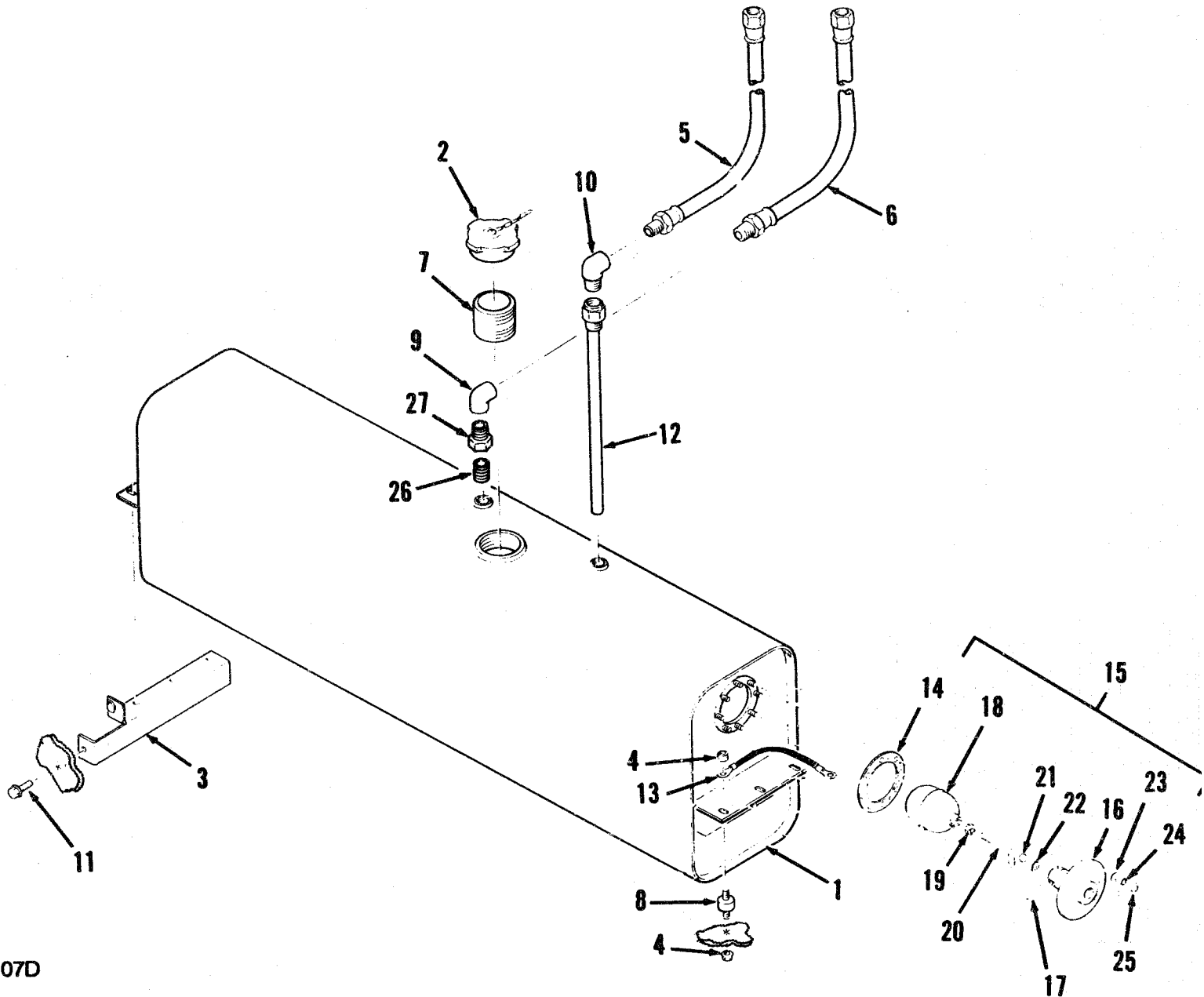


932A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0486	1	Box, Control	13	815-0350	5	Screw, Self-Tapping - Slotted Hex Washer Head (#10-32 x 3/8")
2	319-0485	1	Cover, Box - Control	14	812-0075	2	Screw, Machine - Round Head (#8-32 x 1/4")
3	307-2677-02	1	Relay, Pump (K130)	15	815-0385	2	Screw, Machine - Round Head (#6-32 x 1/2")
4	322-0403-02	1	Light Assembly, Indicator - Seven Light (Includes Wiring Harness)	16	332-2605	2	Jumper, Terminal
5	322-0369-02	1	Lamp, Indicator - Replacement	17	331-0027	2	Connector, Romex
6	308-0912	1	Switch, Rocker - On/Off/Emergency Run (S102)	18	331-0042	1	Connector, Knockout
7	308-0852	1	Switch, Rocker - Test/Reset (S111)	19	315-0686	1	*Transformer (Does Not Include Primary and Secondary Harnesses) (T105)
8	320-1653	1	Breaker, Circuit - DC (CB107)		338-2403	1	Harness, Wiring - Primary (10") T105H1, H4 to TB1-5 (TB1-9)
9	320-1654	1	Breaker, Circuit - AC (CB101)		338-2404	1	Harness, Wiring - Secondary (6") (T105x1, X2 to P4)
10	300-3464	1	Board, Circuit - Printed		323-1302	2	Pin, Contact
11	870-0458	4	Spacer, Board - Printed Circuit		323-1374-04	1	Housing, Connector (4 Place) (P4)
12			Harness, Wiring	20	870-0221	4	*Nut, Hex - With ET (*8-32)
	338-2382	1	Control Box	21	526-0003	4	*Washer, Flat (#8)
	338-2442	1	Printed Circuit Board (TB1-19, 20 to S1 and to Starter Grd) (Controls Without Transformer) (2 Wire, 45")				
	338-2397	1	Control to Day Tank Pump (5 Wire, 40")				

* - Not Used on All Models.

Day Tank (Without Pump and Control)

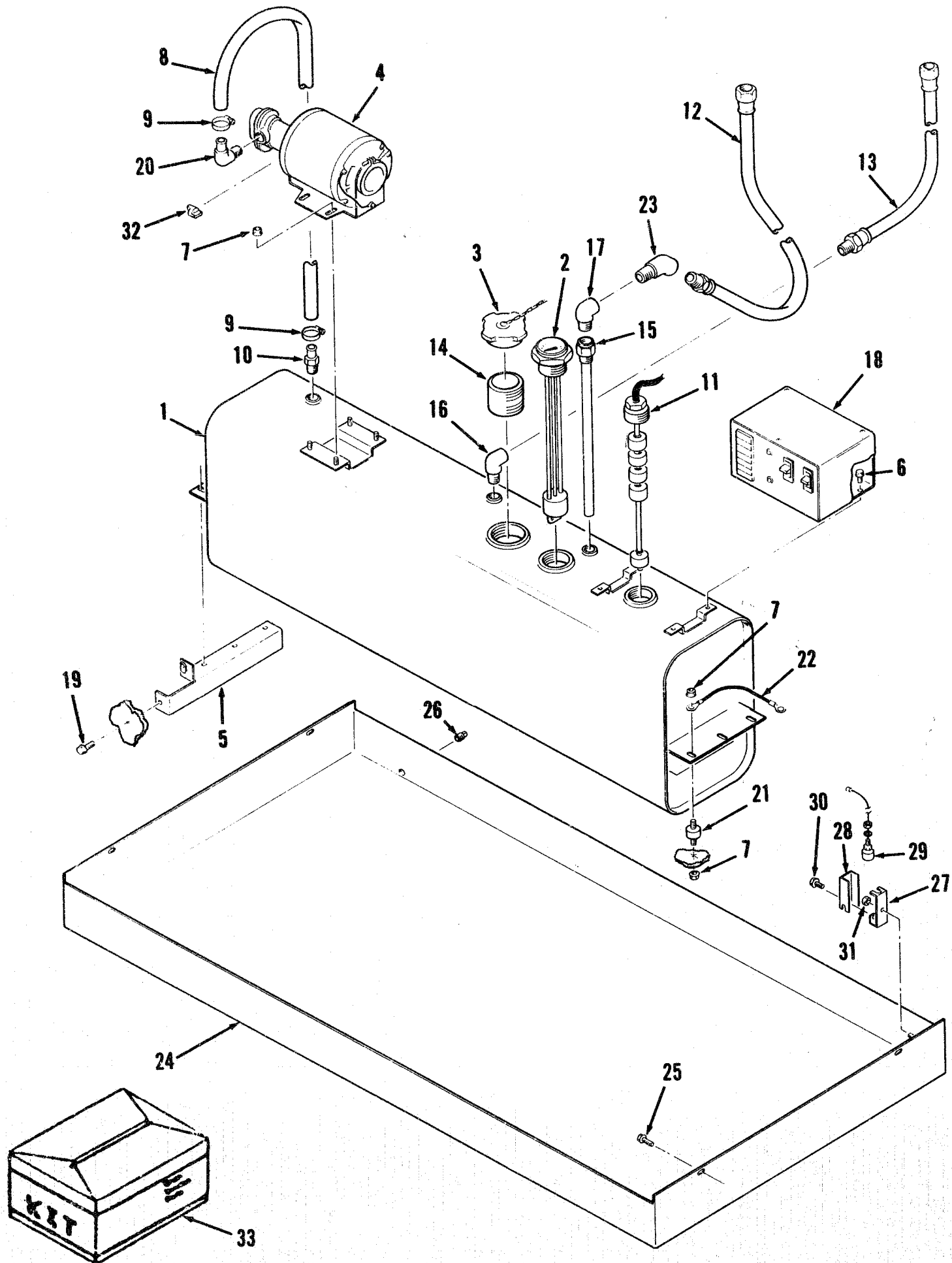


1107D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	415-0648	1	Tank, Day	12	415-0566-05	1	Pipe, Suction
	415-0649	1	11.8 Gallons	13	337-2402	1	Lead, Ground
2	159-1208	1	27 Gallons	14	415-0660	1	Gasket
3		1	Cap, Day Tank	15	415-0657-S0	1	Valve Assembly, Float (Includes Parts Marked *)
		1	Bracket, Mounting	16	415-0650-01	1	*Body, Valve
	159-1311	1	9" - 11.8 Gallon Tank	17	415-0651-19	1	*Pin, Roll
	159-1218	1	12" - 27 Gallon Tank	18	415-0652	1	*Ball, Float
4		1	Nut, Locking - Hex Flange	19	864-0011	1	*Nut, Jam (1/4-20)
		1	Head (1/4-20)	20	415-0654	1	*Arm, Float
	870-0212	8	11.8 Gallon Tank	21	415-0655	1	*Ball, Steel
	870-0212	12	27 Gallon Tank	22	415-0656-21	1	*Seal, Ring
5	501-0084	1	Line, Fuel - Flexible (Fuel Supply) (36")	23	526-0008	8	Washer, Flat (#10)
6	501-0548	1	Line, Fuel - Flexible (Fuel Return) (54-1/2")	24	853-1008	8	Washer, Lock - ET (#10)
7	505-0172	1	Nipple, Close (2")	25	867-0028	8	Nut, Hex (#10-32)
8		1	Isolator, Vibration	26	505-0098	1	Nipple, Close (1/8") 11.8 Gallon Tank
	402-0610	4	11.8 Gallon Tank	27	505-0395	1	Bushing, Reducer (3/8" to 1/8") 11.8 Gallon Tank
	402-0610	6	27 Gallon Tank				
9		1	Elbow, Street - 90° (3/8")				
	505-0039	1	Street - 11.8 Gallon Tank				
	505-0120	1	Pipe - 27 Gallon Tank				
10	505-0050	1	Elbow, Street - 90° (1/2")				
11	821-0016	2	Screw, Self-Locking - Hex Washer Head (5/16-18 x 3/4")				

* - Parts Included in 415-0657-S0 Float Valve Assembly

Day Tank and Rupture Basin (With Pump and Control)

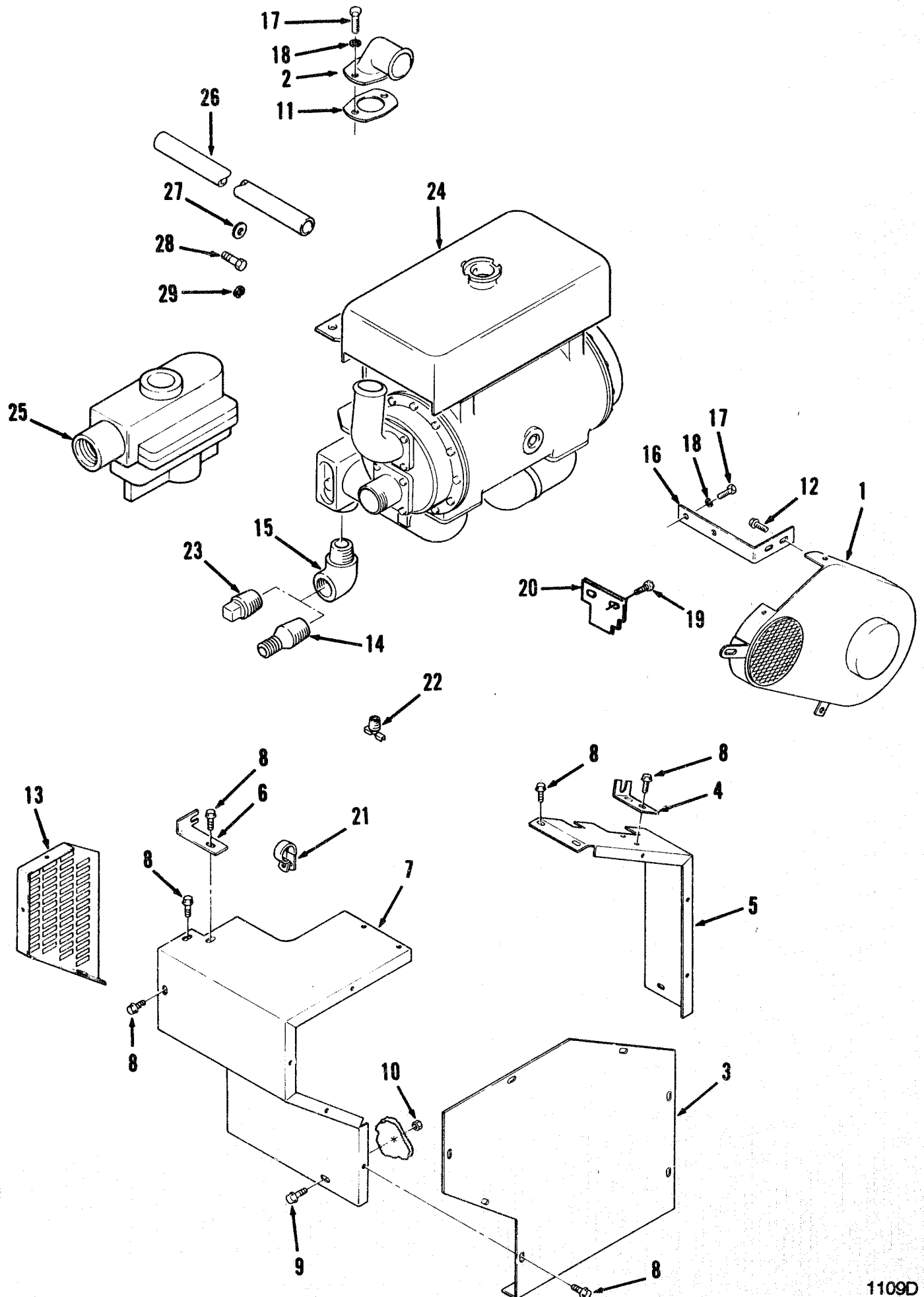


Day Tank and Rupture Basin (With Pump and Control)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	415-0592	1	Tank, Day (27 Gallon)	20	502-0942	1	Elbow, Hose - 90° (5/8" ID Hose x 3/8" Pipe)
2	415-0565-05	1	Gauge, Level - Liquid	21	402-0610	6	Isolator, Vibration
3	159-1208	1	Cap, Day Tank	22	337-2402	1	Lead, Ground
4	399-0117	1	Pump (P103)	23	505-0248	1	Elbow, Street - 45° (1/2")
5	159-1218	1	Bracket, Mounting	24	159-1217	1	*Basin, Rupture
6	821-0018	4	Screw, Self-Locking - Hex Washer Head (1/4-20 x 5/8")	25	815-0236	4	*Screw, Thread Forming - Hex Head (5/16-18 x 5/8")
7	870-0212	16	Nut, Locking - Hex Flange Head (1/4-20)	26	505-0055	1	*Plug, Pipe - Square Head (1/4")
8	503-1660-01	1	Hose, Fuel - Pump to Tank (5/8" ID x 12")	27	319-0490	1	*Bracket, Switch
9	503-0183	2	Clamp, Hose	28	319-0489	1	*Cover, Switch
10	502-0943	1	Connector, Hose	29	308-0916	1	*Switch, Basin
11	308-0913-01	1	Switch - 5 Float	30	821-0010	1	*Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")
12	501-0084	1	Line, Fuel - Flexible (Fuel Supply) (36")	31	870-0212	1	*Nut, Locking - Hex Head (1/4-20)
13	501-0548	1	Line, Fuel - Flexible (Fuel Return) (54-1/2")	32	399-0122	1	Coupler (Drive Piece Between Motor and Pump)
14	505-0172	1	Nipple, Close (2")	33	399-0121	1	Kit, Repair - Pump (Includes Lip Seal, Bearing, Gasket, Drive Gear, Idle Gear and Coupler)
15	415-0566-05	1	Pipe, Suction				
16	505-0120	1	Elbow, Street - 90° (3/8")				
17	505-0050	1	Elbow, Street - 90° (1/2")				
18	-	1	Control Assembly - Day Tank (See Separate Page for Components)				
19	821-0016	2	Screw, Self-Locking - Hex Washer Head (5/16-18 x 3/4")				

* - Not Used on all Models

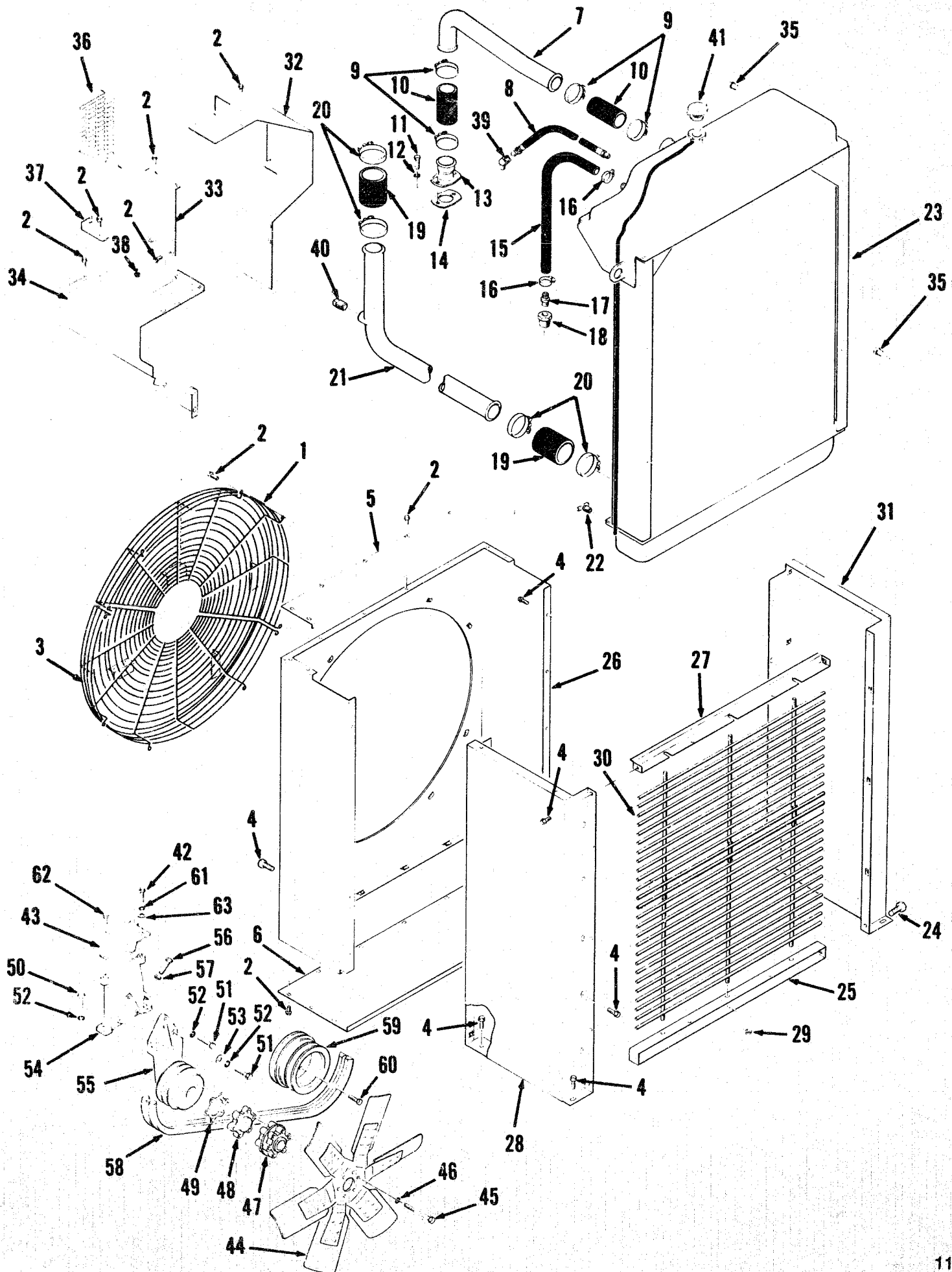
Remote Radiator and Heat Exchanger



Remote Radiator and Heat Exchanger

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3311	1	Guard, Belt (Also Available from Cummins as Part Number 3046110)	20	130-3343	1	Plate, Cover Remote Radiator Application (Also Available from Cummins as Part Number 3022185)
2	130-3180	1	Connection, Radiator (Also Available from Cummins as Part Number 3018764)		130-4043	1	Heat Exchanger Application
3	130-3562	1	Plate, Belt Guard	21	518-0548-02	1	Clip, Retainer
4	130-3564	1	Bracket, Belt Guard	22	504-0005	1	Cock, Drain (1/8")
5	130-3560	1	Guard, Belt	23	505-1380	1	Plug, Pipe (Generator Sets Without Engine Coolant Heater)
6	130-3563	1	Bracket, Belt Guard				
7	130-3561	1	Guard, Belt	24	-	1	Exchanger, Heat - Assembly and Component Parts are Available from Cummins as Modification Number HXO 1134
8	821-0010	14	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")				
9	821-0020	2	Screw, Self-Locking - Hex Washer Head (5/16-18 x 7/8")	25	309-0180	1	*Regulator, Water - Thermostatic (Not Used on all Models)
10	870-0257	2	Nut, Locking - Hex Head (5/16-18)	26	895-0296	2	*Tubing, Glass Fiber (7/8" ID x 20")
11	130-3184	1	Gasket, Connection (Also Available from Cummins as Part Number 3019158)	27	526-0346	4	*#Washer, Flat (3/8")
12	821-0029	2	+Screw, Self-Locking - Hex Washer Head (3/8-16 x 3/4")	28			*#Screw, Cap - Hex Head
13	130-3554	1	Guard, Belt		800-0049	2	3/8-16 x 7/8"
14	505-0759	1	Adapter - Pipe to Hose (1" x 1") (Generator Sets With Engine Coolant Heaters)		800-0209	2	3/8-16 x 1"
15	505-0003	1	Elbow, Street - Pipe (1" x 90°)		800-0052	1	3/8-16 x 1-1/2"
16	130-3310	1	Brace, Belt Guard (Also Available from Cummins as Part Number 3022183)	29	850-0103	6	*#Washer, Lock - Spring (3/8")
17	800-0050	4	+Screw, Cap - Hex Head (3/8-16 x 1")	+ - Mounting Hardware Used to Mount 130-3311 Belt Guard in Remote Radiator Applications			
18	850-0050	4	+Washer, Lock - Spring (3/8")	* - Used in Heat Exchanger Applications			
19	821-0028	2	+Screw, Self-Locking - Hex Washer Head (3/8-16 x 1/2")	# - Mounting Hardware Used to Mount 130-3311 Belt Guard in Heat Exchanger Applications			

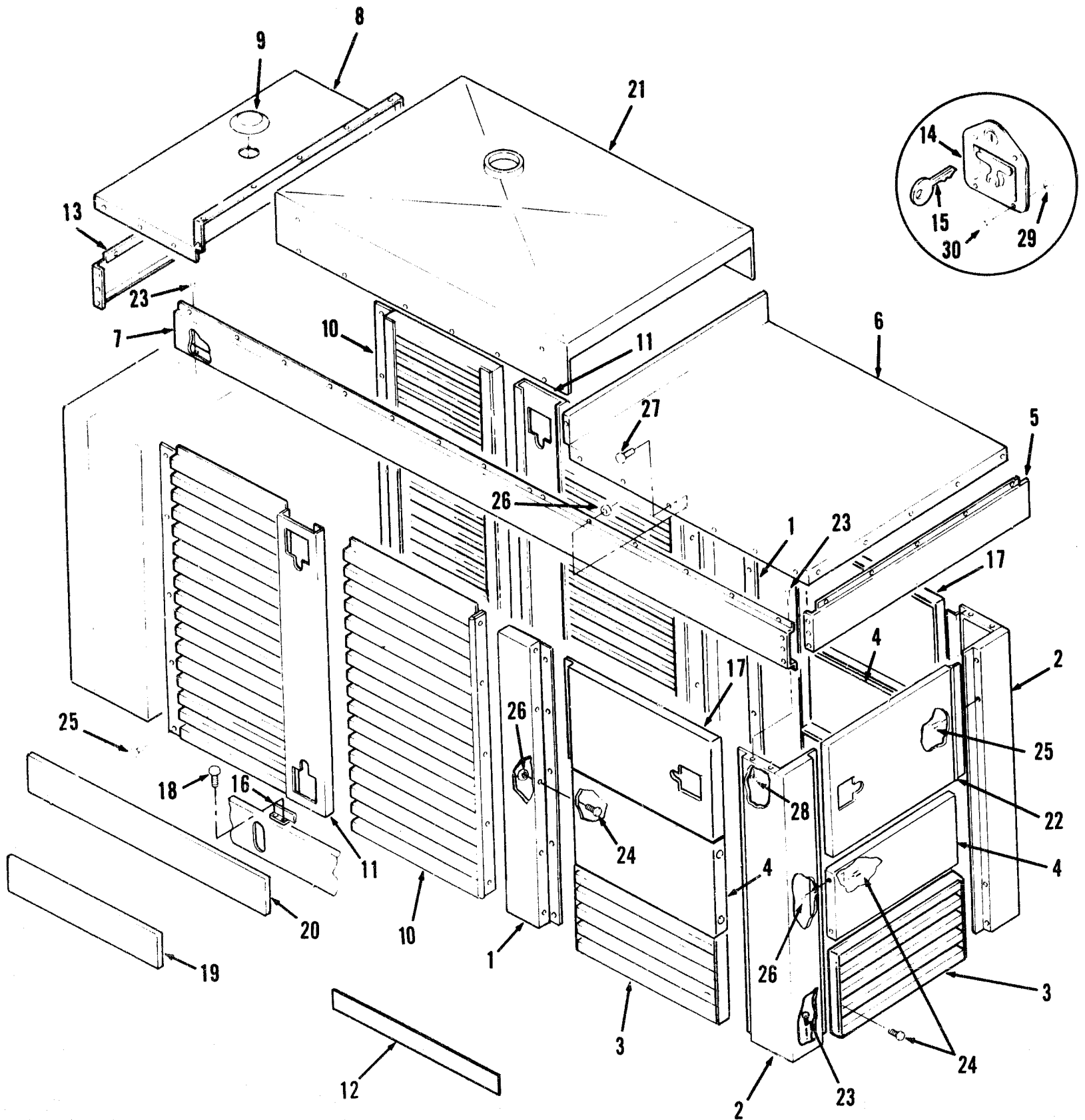
Radiator



Radiator

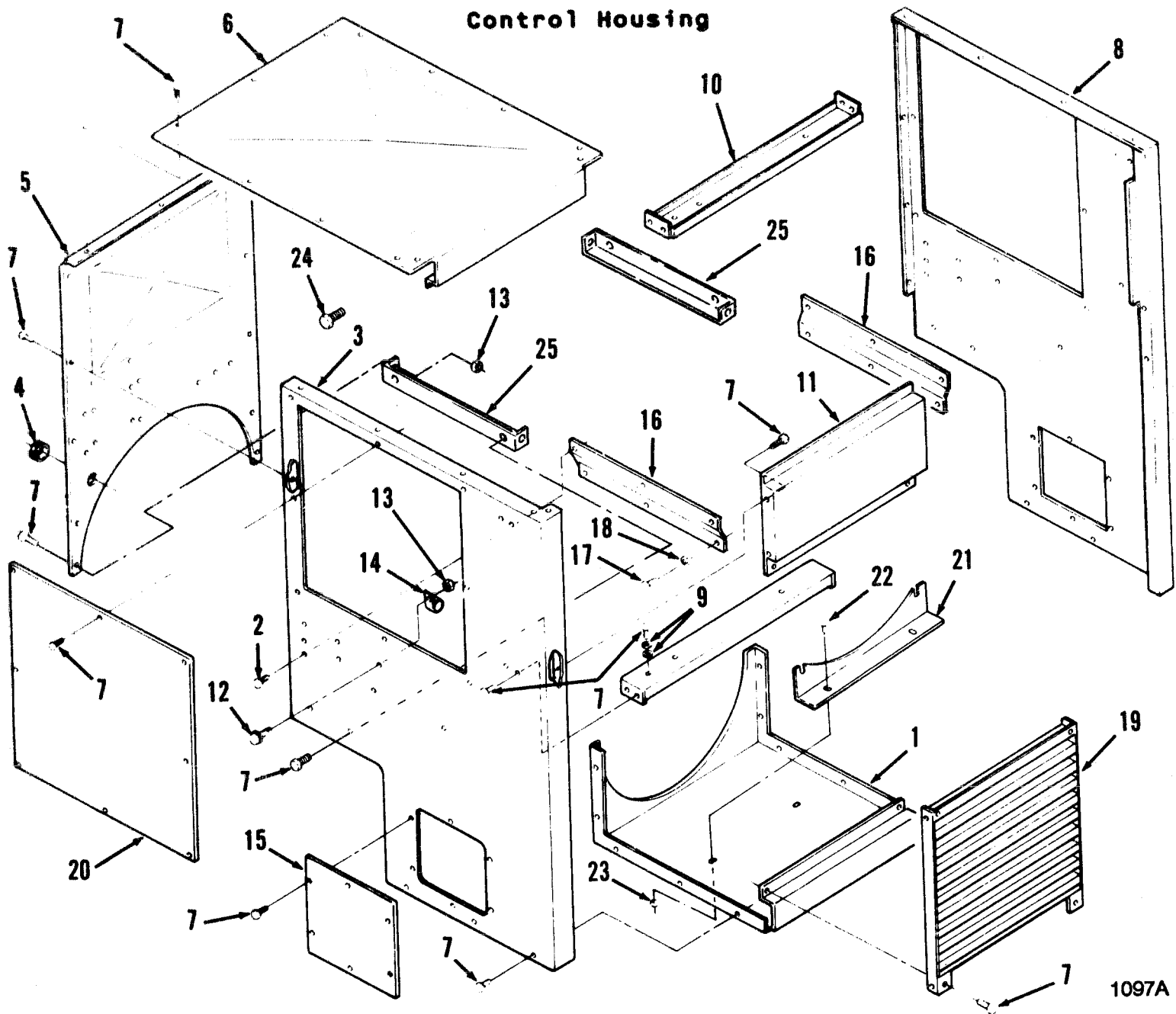
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3521-01	1	Guard, Fan - Right Side	32	130-3533	1	Guard, Belt
2	821-0018	46	Screw, Self-Locking - Hex Washer Head (1/4-20 x 5/8")	33	130-3535	1	Guard, Belt
3	130-3521-02	1	Guard, Fan - Left Side	34	130-3534	1	Guard, Belt
4			Screw, Self-Locking - Hex Washer Head (3/8-16 x 3/4")	35	502-0153	2	Plug, Pipe - Hex Head (1/4-18)
	821-0029	34	Generator Set Skid Measures 44" x 142"	36	130-3554	1	Guard, Belt
	821-0029	36	Generator Set Skid Measures 50" x 142"	37	130-3563	1	Bracket, Belt Guard
5	130-3522	1	Shroud, Fan - Top	38	870-0212	1	Nut, Locking - Hex Flange Head (1/4-20)
6	130-3523	1	Shroud, Fan - Bottom	39	502-0053	1	Elbow, Street - 45° (1/8")
7	130-3524	1	Tube, Radiator - Upper	40	505-0130	1	Plug, Pipe - Square Head (3/4")
8	501-0551	1	Line, Flexible (29")	41	130-3721	1	Cap, Pressure (7 PSI)
9	503-0999	4	Clamp, Hose (T-Bolt) (2-3/4" ID)	42	815-0710	2	Screw, Cap - Hex Head - With Washer (7/16-14 x 1-1/16")
10	503-1379-02	2	Hose, Radiator (2-1/4" ID x 4-1/2")	43	130-3224-01	1	Brace, Fan (Also available as Cummins part number 3051620)
11	800-0050	2	Screw, Cap - Hex Head (3/8-16 x 1")	44	130-3188	1	Fan - 6 Blade (Also available as Cummins part number 3033414)
12	850-0050	2	Washer, Lock - Spring (3/8")	45	800-0061	6	Screw, Cap - Hex Head (3/8-16 x 3-3/4")
13	130-3342	1	Connection, Radiator (Also available as Cummins part number 3021477)	46	850-0050	6	Washer, Lock - Spring (3/8")
14	130-3184	1	Gasket (Also available as Cummins part number 3019158)	47	130-3192-12	1	Spacer, Fan (Also available as Cummins part number 3035776)
15			Hose, Water (3/4" ID)	48	130-3191-06	1	Spacer, Fan Pilot (Also available as Cummins part number 3005589)
	503-1467-07	1	33" (Generator Set Skid Measures 44" x 142")	49	130-3193	1	Gasket, Spacer (Also available as Cummins part number 3005592)
	503-1467-03	1	30" (Generator Set Skid Measures 50" x 142")	50	815-0711	2	Screw, Cap - Hex Head - With Washer (1/2-20 x 1-1/2")
16	503-0189	2	Clamp, Hose	51	800-0230	3	Screw, Cap - Hex Head (1/2-20 x 1-3/4")
17	502-0827	1	Connector, Hose (1/2-14 Pipe to 3/4" ID Hose)	52	850-0105	5	Washer, Lock - Spring (1/2")
18	505-0022	1	Bushing, Reducer (1" to 1/2")	53	526-0341	2	Washer (Special)
19	503-1414-01	2	Hose, Radiator (3-1/4" ID x 4")	54	130-3220	1	Bracket, Fan (Also available as Cummins part number 208829)
20	503-0998	4	Clamp, Hose (T-Bolt) (3-1/4" ID)	55	130-3347	1	Hub, Fan (Also available as Cummins part number 3012649)
21	130-3526	1	Tube, Radiator - Lower	56	800-0229	1	Screw, Cap - Hex Head (1/2-13 x 2-1/2")
22	504-0028	1	Cock, Drain (3/8-18)	57	864-0013	1	Nut, Hex - Jam (1/2-13)
23			Radiator	58	511-0160	2	Belt
	130-3555	1	1-1/2" Radiator Core	59	130-3194	1	Pulley (Also available as Cummins part number 3013336)
	130-3527	1	3" Radiator Core	60	800-1502	6	Screw, Cap - Hex Head (3/8-16 x 1-1/8")
24	821-0014	4	Screw, Self-Locking - Hex Washer Head (5/16-18 x 1/2")	61	850-0055	2	Washer, Lock - Spring (7/16")
25	130-3529	1	Support, Grille - Lower	62	800-0105	2	Screw, Cap - Hex Head (1/2-13 x 5")
26	130-3531	1	Wrapper, Shroud - Fan	63	526-0340	2	Washer, Flat (7/16")
27	130-3528	1	Support, Grille - Upper				
28			Guard, Radiator - Left Side				
	130-3749-02	1	Generator Set Skid Measures 44" x 142"				
	130-3532-02	1	Generator Set Skid Measures 50" x 142"				
29	870-0281	6	Nut, Locking - Hex Flange Head (3/8-16)				
30	130-3530	1	Grille				
31			Guard, Radiator - Right Side				
	130-3749-01	1	Generator Set Skid Measures 44" x 142"				
	130-3532-01	1	Generator Set Skid Measures 50" x 142"				

Housing



Housing

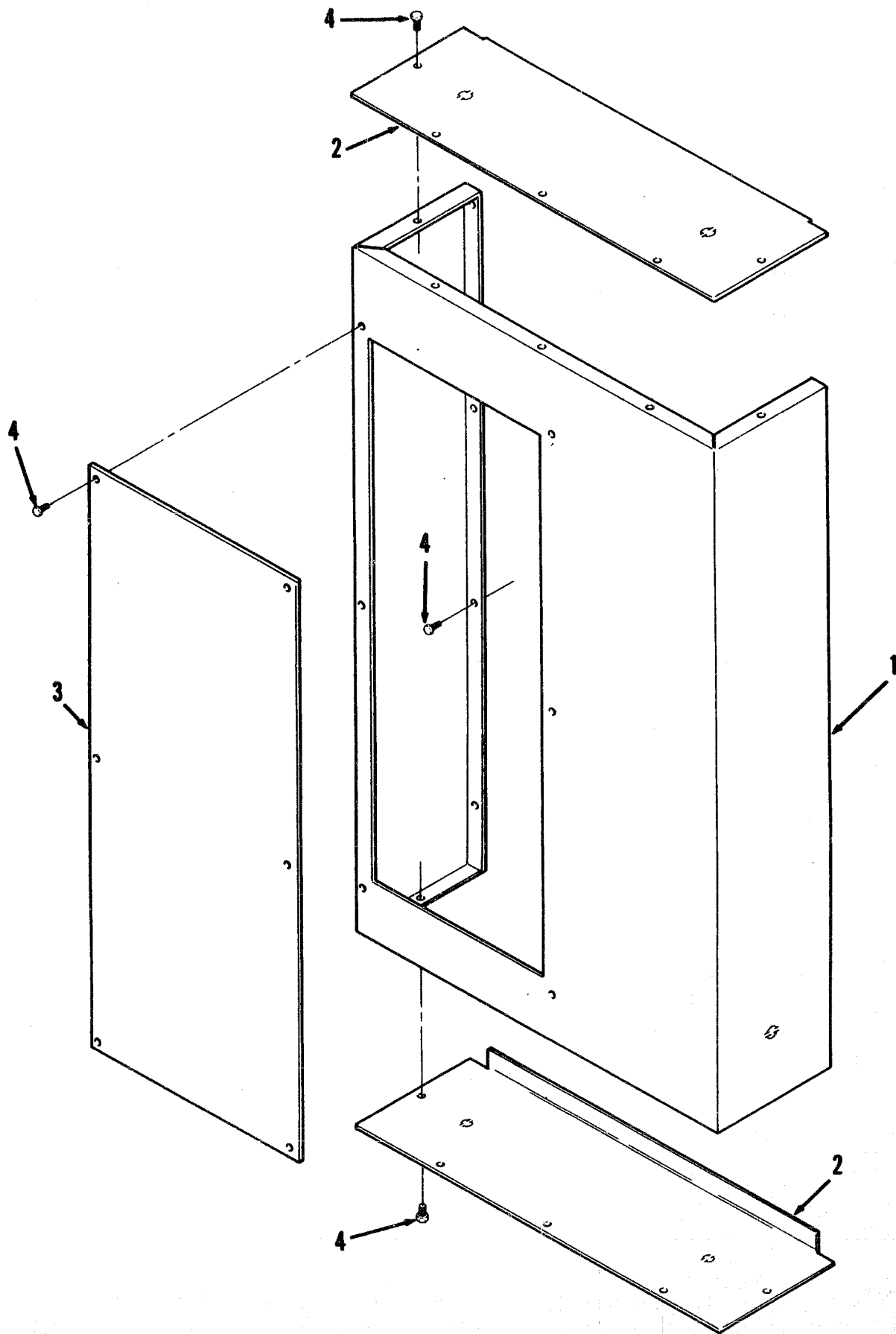
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-4110	2	Post - Center	17	405-4107	2	Door - Side
2	405-4111	2	Post - Rear	18	815-0236	4	Screw, Hex Head - Thread Forming (5/16-18 x 5/8")
3	405-4104	3	Grille	19	128-0118	1	Insulation (24" x 5-3/4" x 1/4")
4	405-4112	3	Panel - Rear and Side	20	128-0117	4	Insulation (40" x 7-13/16" x 1/4")
5	405-4117	1	Cap, End - Rear	21	405-4114	1	Roof - Center
6	405-4115	1	Roof - Rear	22	405-4106	1	Door, Control
7			Rail, Side	23	821-0029	24	Screw, Locking - Hex Washer Head (3/8-16 x 3/4")
	405-4118-02	1	Left Side	24	821-0014	20	Screw, Locking - Hex Washer Head (5/16-18 x 1/2")
	405-4118-01	1	Right Side	25	819-1102	29	Screw, Machine - Pan Head - Cross Recessed (5/16-18 x 1/2")
8	405-4113	1	Roof - Front	26	870-0257	52	Nut, Locking - Hex Head (5/16-18)
9	517-0245	1	Plug	27	816-0098	52	Bolt, Carriage (5/16-18 x 5/8")
10	405-4108	2	Door - Side - Without Opening for Door Handles (Right Side Center Location and Left Side Front Location)	28	870-0281	10	Nut, Locking - Hex Head (3/8-16)
11	405-4109	2	Door - Side - With Opening for Door Handles (Right Side Front Location and Left Side Center Location)	29	870-0235	28	Nut, Locking - Hex Head (#8-32)
12	895-0308	-	Tape, Sealing - Bulk (1/8" Thk x 1" Wide) (Order by the foot - 6' required)	30	815-0607	28	Screw, Machine - Round Head (#8-32 x 3/8")
13	405-4116	1	Cap, End - Front				
14	406-0626	7	Handle, Door (Includes Key)				
15	406-0639	7	Key				
16	405-3980	2	Stop, Door				



1097A

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"
	319-0740	1	Frame HC434	15	301-9629	2	Cover, Side - Lower
2	821-0029	6	Screw, Locking - Hex Washer Head (3/8-16 x 3/4")	16	319-0743	2	Bracket, Mounting
3	319-0739-01	1	Panel - Right Side		319-0745	2	Frame HC434
4	508-0051	1	Grommet, Rubber		800-2111	6	Frame HC534
5	319-0737	1	Panel - Rear	17	800-2111	6	Screw, Cap - Hex head (M12 x 25mm)
	319-0741	1	Frame HC434	18	850-2012	6	Washer, Lock - Spring (M12)
6	301-9512	1	Frame HC534	19	234-0883	1	Grille
7		1	Cover - Top	20	301-9511	2	Cover, Side - Upper
			Screw, Locking - Hex Washer Head (1/4-20 x 1/2")	21	319-1345	1	Bracket, Panel
	821-0010	88	Frame HC434		319-1346	1	Frame HC434
	821-0010	78	Frame HC534		821-0016	2	Frame HC534
8	319-0739-02	1	Panel - Left Side	22	821-0016	2	Screw, Locking - Hex Washer Head (5/16-18 x 3/4")
9	856-0006	2	Washer, Lock - EIT (1/4")	23	870-0257	2	Nut, Locking - Hex Head (5/16-18)
10	301-9510	2	Support - Control Box	24	800-2114	2	Screw, Cap - Hex Head (M12 x 40mm) (Frame HC434)
11	319-0738	1	Panel - Front	25	319-0748	2	Panel, Support (Frame HC434)
12	821-0018	1	Screw, Locking - Hex Washer Head (1/4-20 x 5/8")				
13			Nut, Locking - Hex Head (1/4-20)				
	870-0212	3	Frame HC434				
	870-0212	1	Frame HC534				

Entrance Box

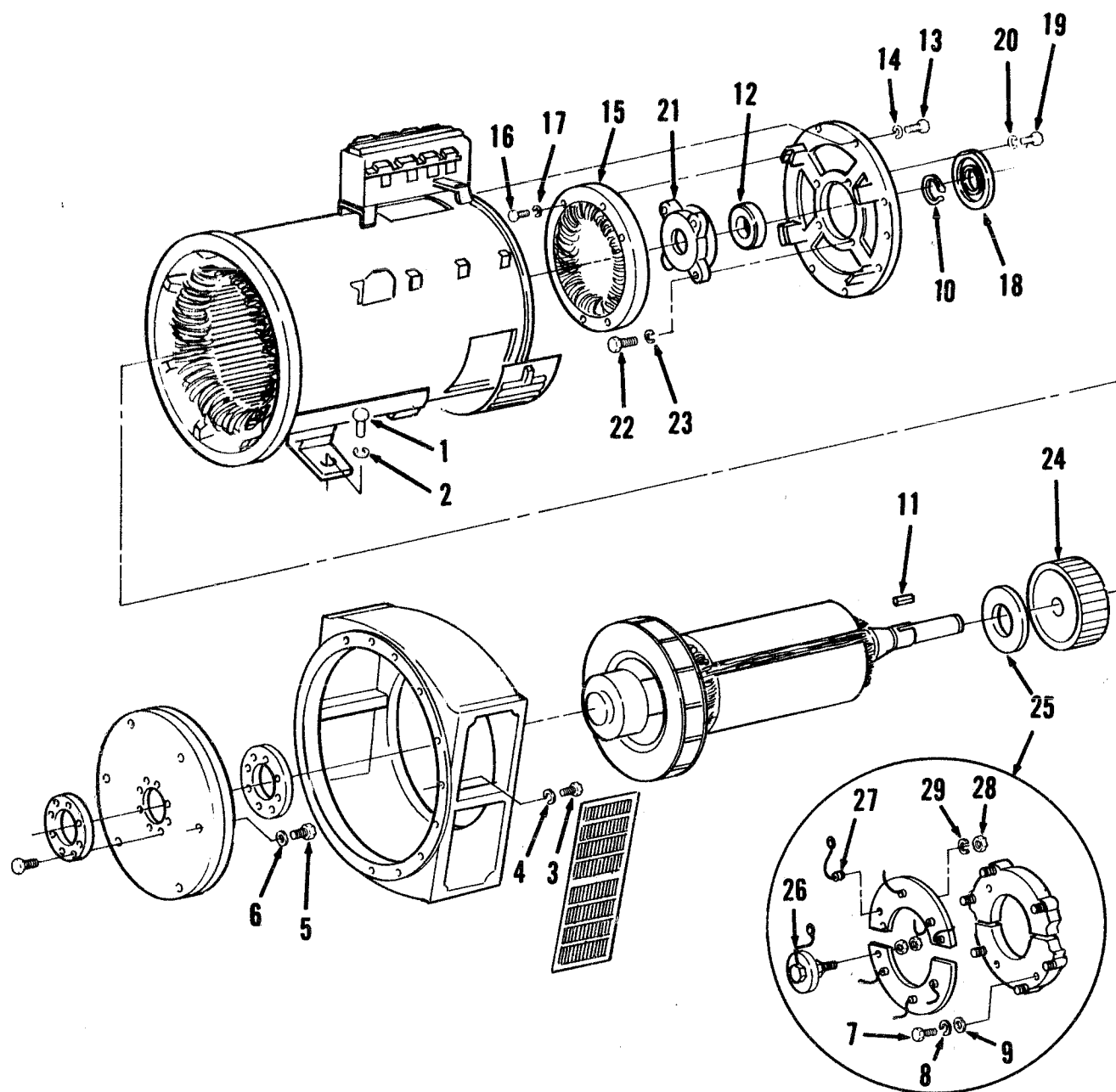


951C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9655	1	Box, Entrance
2	301-9653	2	Panel

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	301-9698	1	Cover
4	821-0010	22	Screw, Locking - Hex Washer Head (1/4-20 x 1/2")

**Generator
(Newage Frame HC434, HC534)**



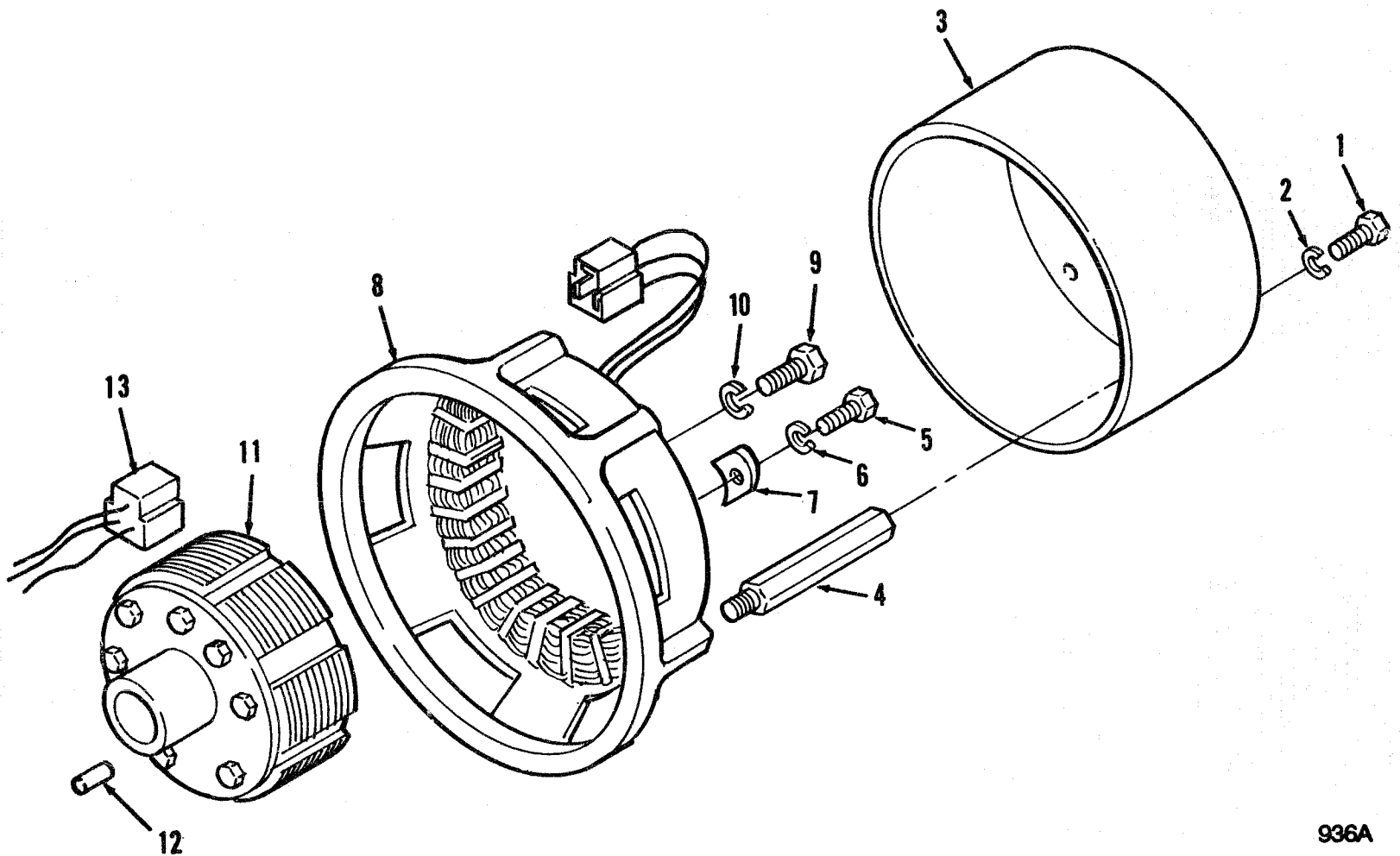
(Note: Use spacers or old foot when the generator is replaced on an older model.)

963C

**Generator
(Newage Frame HC434, HC534)**

REF NO.	ONAN PART NO.	NEWAGE PART NO.	QTY. USED	PART DESCRIPTION
1	800-0183	-	2	Screw, Cap - Hex Head (1-8 x 2-1/2")
2	850-0086	-	2	Washer, Lock - Spring (1")
3	800-0073	-	12	Screw, Cap - Hex Head (7/16-14 x 1-1/2")
4	850-0055	-	12	Washer, Lock - Spring (7/16")
5	805-0032	-	8	Bolt, Place (1/2-13 x 1-1/4")
6	526-0035	-	8	Washer, Flat (1/2")
7	800-2043	015-41613	4	Screw, Cap - Hex Head (M6 x 65mm)
8	850-2006	028-31507	4	Washer, Lock - Spring (M6)
9	526-2080	029-61107	4	Washer, Flat (M6)
10	518-0018	050-11047	1	Ring, Retaining - Frame HC534
11	515-0300-01	054-10121	1	Key
12	510-0168	051-01036	1	Bearing, Ball
13	800-2088	016-40920	8	Screw, Cap - Hex Head (M10 x 35mm)
14	850-2010	028-31509	8	Washer, Lock - Spring (M10)
15	220-4248	462-12400	1	Stator, Exciter
16	800-2043	015-41613	6	Screw, Cap - Hex Head (M6 x 65mm)
17	850-2006	028-31507	6	Washer, Lock - Spring (M6)
18	232-3519	458-12970	1	Cap, Bearing - Outer
19				Screw, Cap - Hex Head
	800-2528	016-40919	4	Frame HC434 (M10 x 30mm)
	800-2091	016-40923	4	Frame HC534 (M10 x 50mm)
20	850-2010	028-31509	4	Washer, Lock - Spring (M10)
21	232-3518	458-12960	1	Cap, Bearing - Inner
22	800-2528	016-40919	4	Screw, Cap - Hex Head (M10 x 30mm)
23	850-2010	028-31509	4	Washer, Lock - Spring (M10)
24				Rotor, Exciter
	201-3454	458-22800	1	Frame HC434
	249-0522	462-23400	1	Frame HC534
25	357-0093	362-12800	1	Rectifier Assembly (Includes Diodes and Varistor)
26	249-0240	450-11760	1	Varistor
27				Diode
	249-0239	364-10840	3	Forward
	249-0238	364-10850	3	Reverse
28	860-2006	027-41206	6	Nut, Hex (M5)
29	850-2005	028-31506	6	Washer, Lock - Spring (M5)

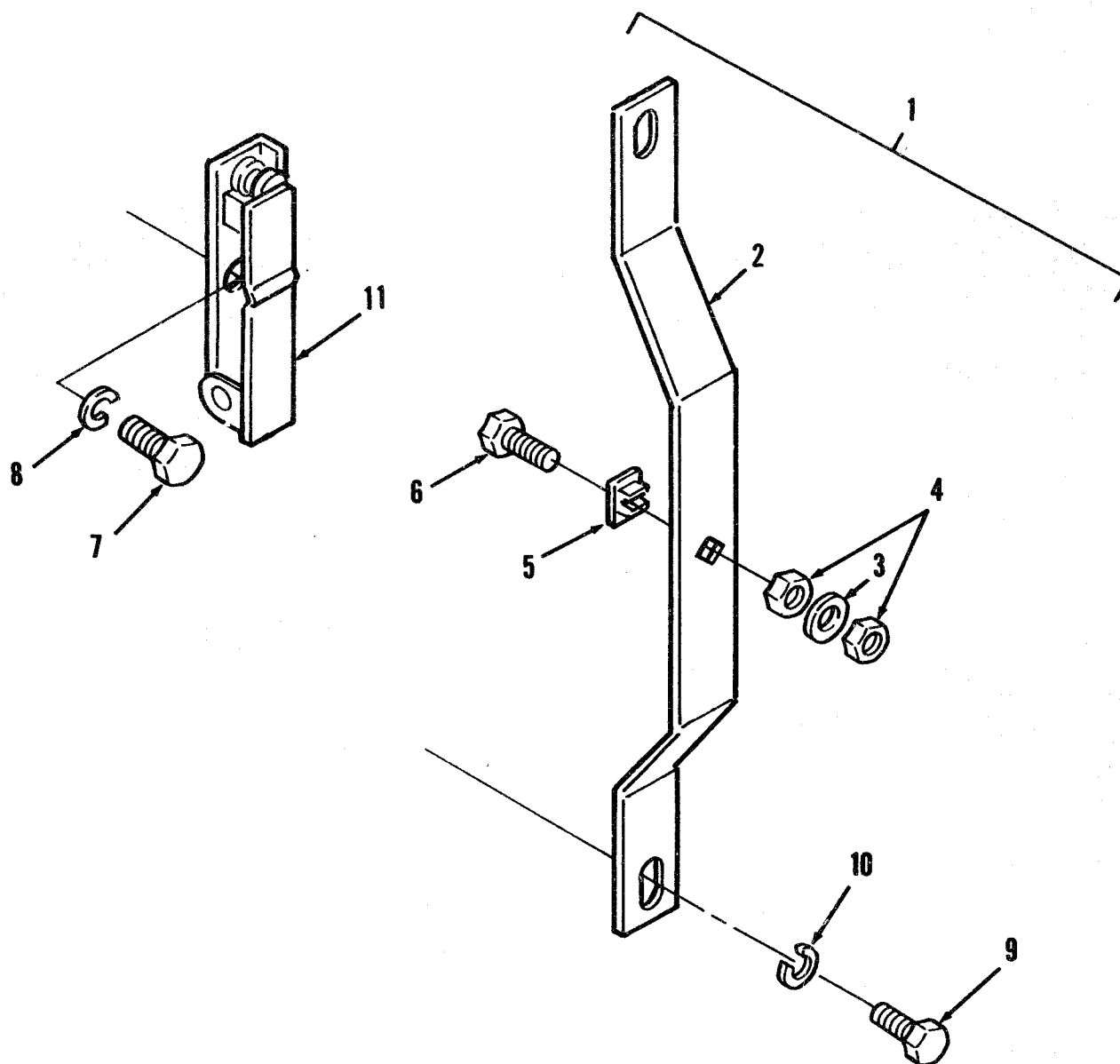
Permanent Magnet Exciter



936A

REF NO.	ONAN PART NO.	NEWAGE PART NO.	QTY. USED	PART DESCRIPTION
1	800-2004	016-40614	3	Screw, Cap - Hex Head (M5 x 12mm)
2	850-2005	028-31506	3	Washer, Lock - Spring (M5)
3	234-0890	450-13350	1	Cover
4	232-3527	450-13340	3	Spacer, Mounting - Cover
5	800-2056	016-40816	4	Screw, Cap - Hex Head (M8 x 16mm)
6	850-2008	028-31508	4	Washer, Lock - Spring (M8)
7	232-3526	150-10710	4	Clamp, Stator
8				Stator
	220-4249	450-17400	1	Frame HC434
	249-0741	450-26400	1	Frame HC534
9				Bolt, Hex Head
	815-0761	350-14950	1	Frame HC434
	249-0495	450-13330	1	Frame HC534
10	850-2010	028-31509	1	Washer, Lock - Spring (M10)
11				Rotor
	201-3455	450-21300	1	Frame HC434
	249-0644	450-23900	1	Frame HC534
12	775-0049	-	1	Pin, Dowel
13	249-0642	450-22000	1	Harness, Wiring (Universal Replacement) Permanent Magnet Exciter to AUX Terminal Strip

Overspeed Switch



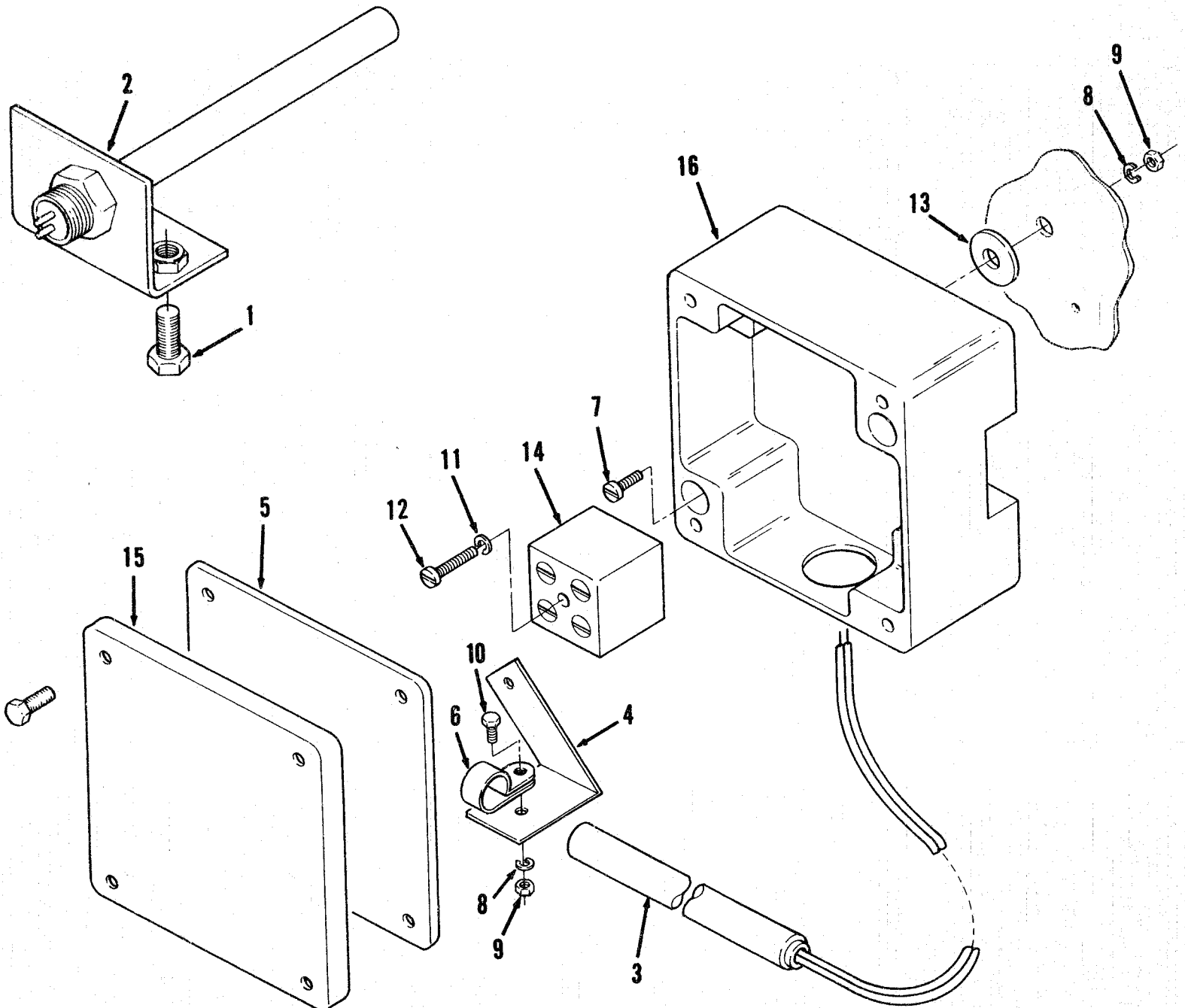
926A

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 Heater

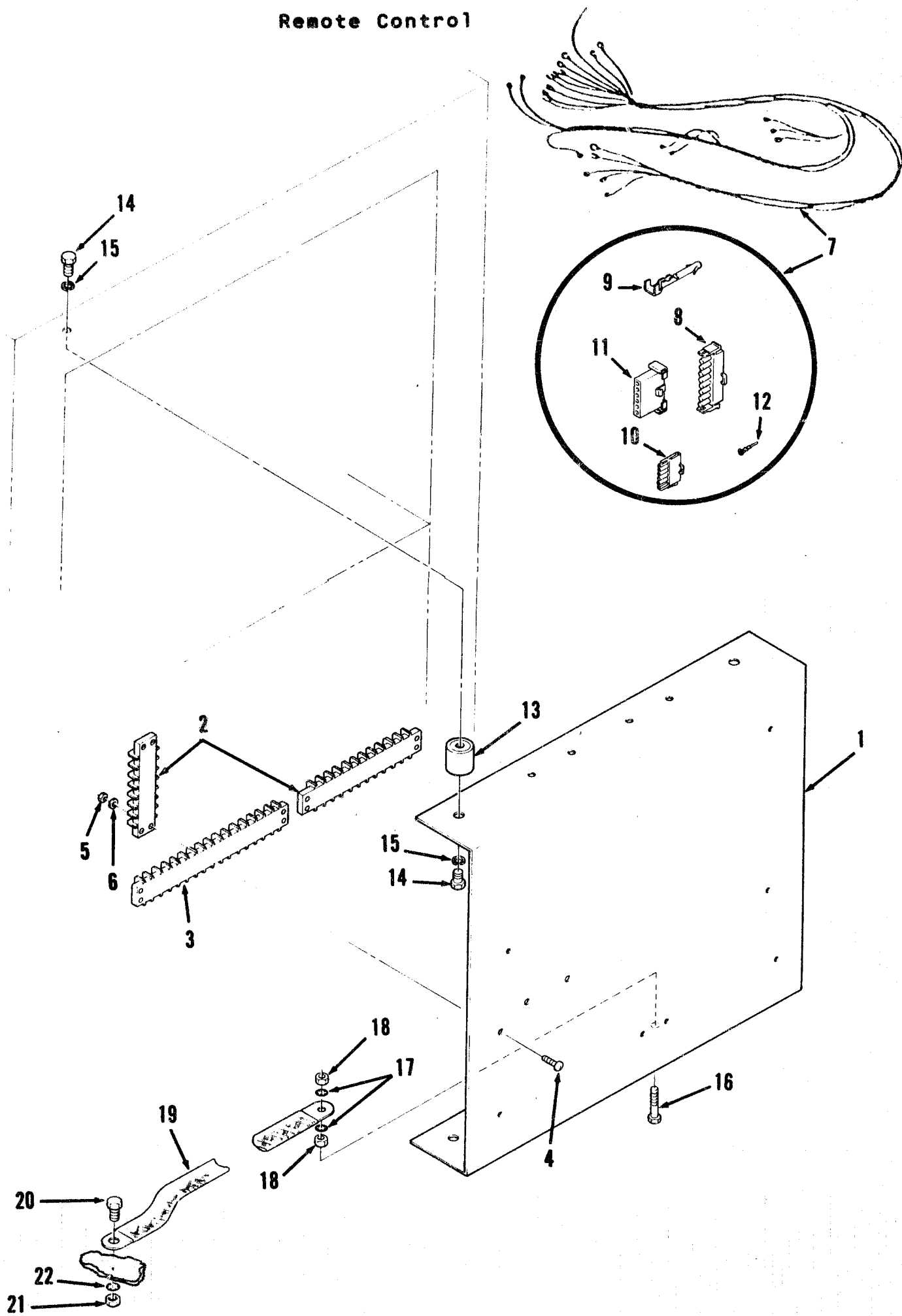


959C

Generator Heater

REF NO.	ONAN PART NO.	NEWAGE PART NO.	QTY. USED	PART DESCRIPTION
1	800-2010	-	4	Screw, Cap - Hex Head (M5 x 20mm)
2				Heater, Generator (Includes Mounting Brackets and Terminal Block) Newage Generator Model HC4
	333-0382-02	410-H03	1	120 Volt
	333-0382-07	410-H04	1	240 Volt
3				Cartridge, Heater
	333-0438-03	071-31053	2	Newage Generator Model HC4
	333-0438-04	071-31054	2	120 Volt (150 Watt)
				240 Volt (150 Watt)
	333-0438-05	071-31055	1	Newage Generator Model HC5
	333-0438-06	071-31056	1	120 Volt (300 Watt)
				240 Volt (300 Watt)
4				Bracket, Mounting - Heater
				Newage Generator Model HC4 (With Two Heater Mounting Holes)
	232-3543	410-10130	1	Left Side
	232-3544	410-10131	1	Right Side
				Newage Generator Model HC5 (With One Heater Mounting Hole)
	232-3560	520-10157	1	Left Side
	232-3561	520-10158	1	Right Side
5	330-0141-04	-	1	Gasket, Cover
6	332-3024-14	052-46055	2	Clamp, Loop
7	822-3075	-	2	Screw, Pan Head (M4 x 16mm)
8	850-2004	-	4	Washer, Lock - Spring (M4)
9	860-2005	-	4	Nut, Hex (M4)
10	800-4074	-	2	Screw, Machine - Hex Head (M4 x 13mm)
11	850-2003	-	1	Washer, Lock - Spring (M3)
12	822-3047	-	1	Screw, Pan Head (M3 x 20mm)
13	508-0228	-	1	Grommet
14	332-3023	003-14010	1	Block, Terminal
15	330-0141-03	-	1	Cover, Box
16	330-0142	450-10060	1	Box, Terminal

Remote Control

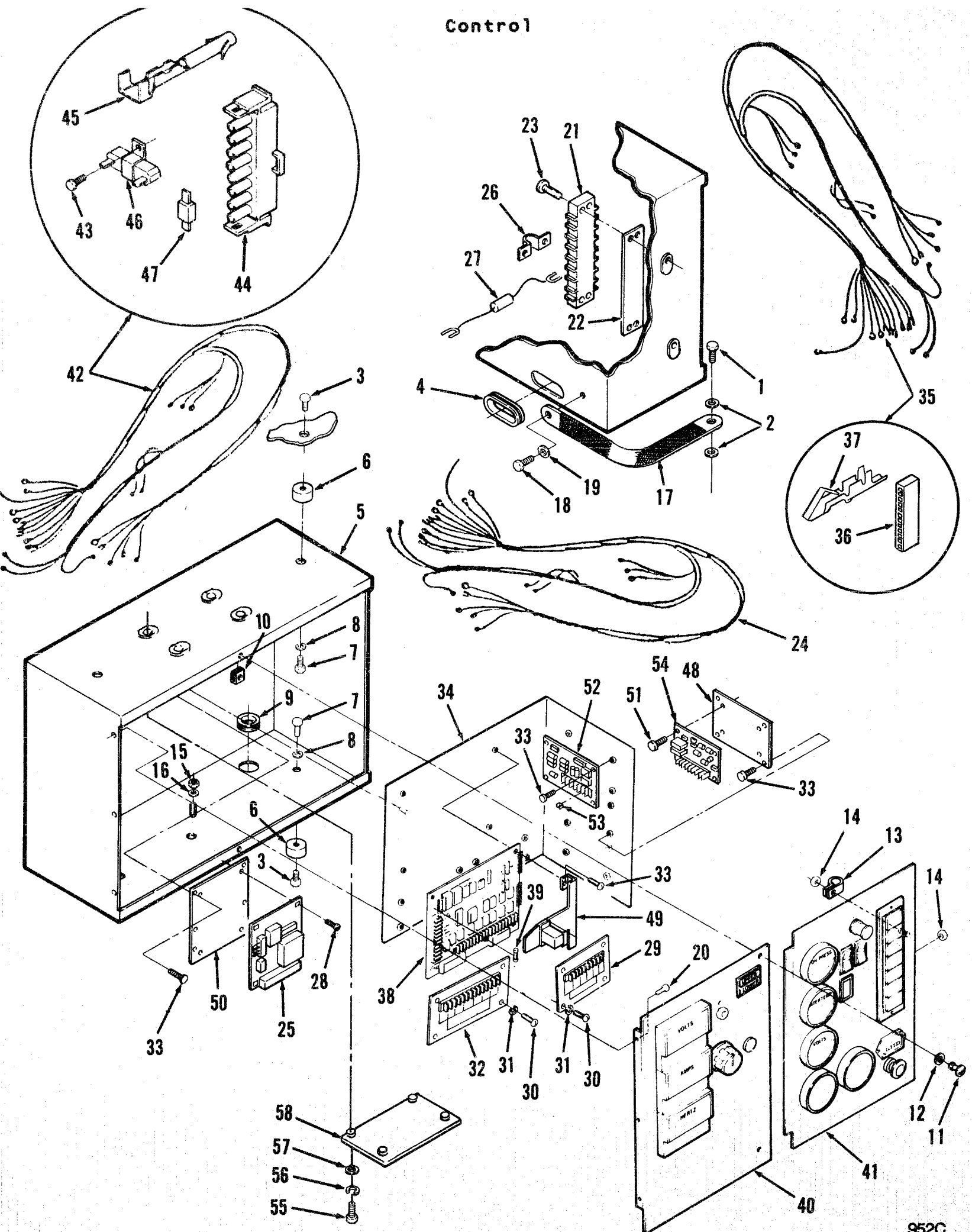


1106D

Remote Control

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	2	Housing, Connector (6 Place) Used With Wiring Harness
2	332-0795	2	Block, Terminal (16 Place)				338-2571 and 338-2756 (P1, P2)
3	332-0607	1	Block, Terminal (12 Place)	12	323-1199	1	Pin, Contact - Male (Quantity Used as Required)
4	812-0066	6	Screw, Machine - Round Head (#6-32 x 3/4")	13	402-0527	4	Isolator, Vibration
5	860-1005	6	Nut, Hex (#6-32)	14	800-0045	8	Screw, Cap - Hex Head (5/16-18 x 3/8")
6	526-0003	6	Washer, Flat (#8)	15	850-0045	8	Washer, Lock - Spring (5/16"
7			Harness, Wiring (Includes Connector Housing and Pins or Sockets)	16	800-0008	1	Screw, Cap - Hex Head (1/4-20 x 1-1/4")
	338-2569	1	20" - 5 Wire (J1 to TB21, GRD, A11)	17	856-0006	2	Washer, Lock - EIT (1/4")
	338-2570	1	12" - 6 Wire (J2 to A11)	18	871-0015	2	Nut, Hex - Brass (1/4-20)
	338-2571	1	12" - 6 Wire (P2 to A11)	19	337-0049	1	Strap, Ground
	338-2756	1	12" - 3 Wire (P1 to A11)	20	800-0024	1	Screw, Cap - Hex Head (5/16-18 x 1/2")
8	323-1306	1	Housing, Connector (8 Place) Used With Wiring Harness 338-2569 (J1)	21	862-0015	1	Nut, Hex (5/16-18)
9	323-1200	1	Socket - Female (Quantity Used as Required)	22	856-0008	1	Washer, Lock - EIT (5/16")
10	323-1304	1	Housing, Connector (6 Place) Used With Wiring Harness 338-2570 (J2)				

Control

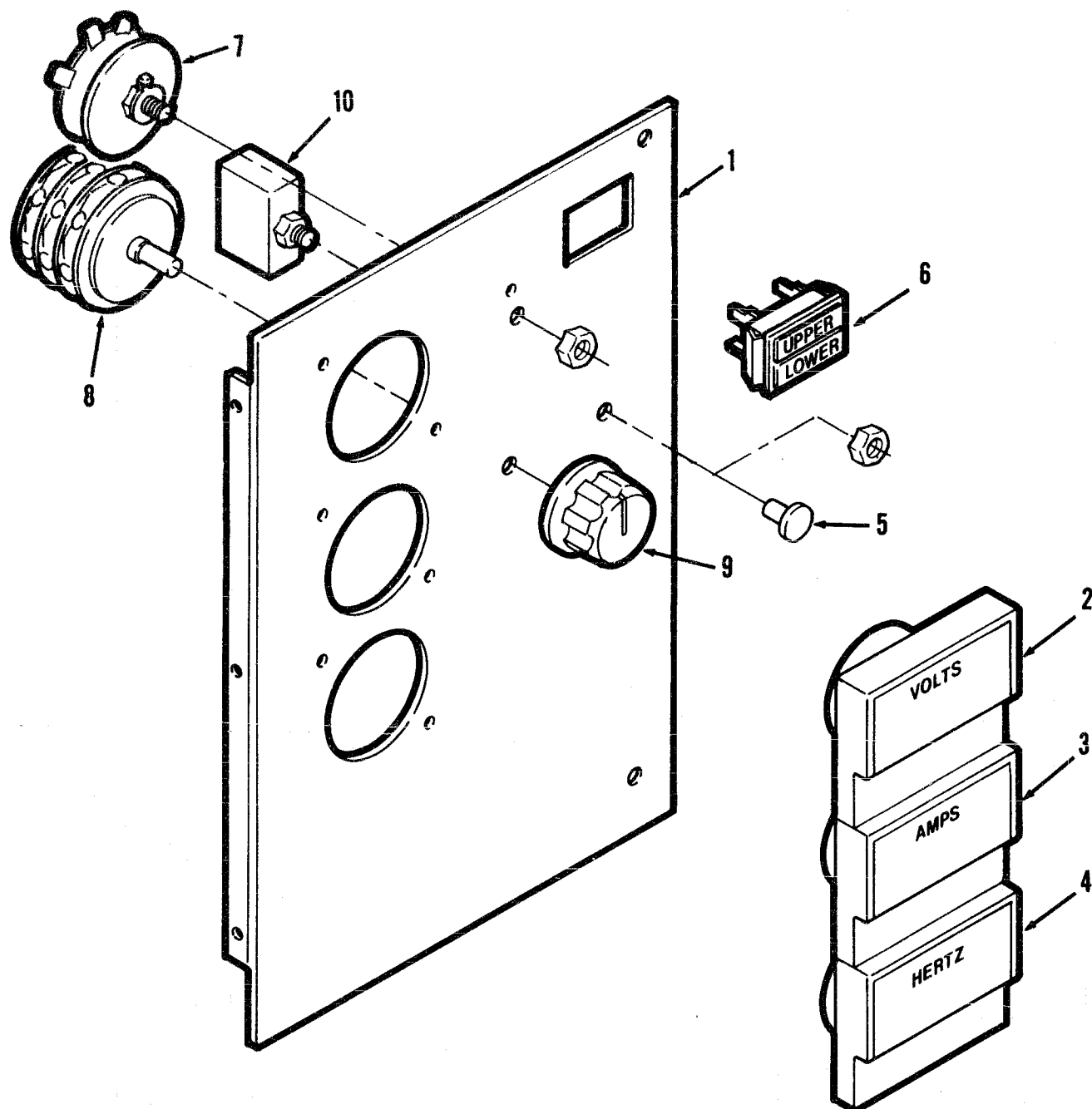


952C

Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0010	1	Screw, Locking - Hex Washer Head (1/4-20 x 1/2")	32	300-2863	1	Board, Printed Circuit - Alarm Relay (7 and 12 Light Control) (A13)
2	856-0006	2	Washer, Lock - EIT (1/4")	33	815-0544	18	Screw, Machine - Round Head - Cross Recessed With IT (#6-32 x 1/2")
3	821-0014	4	Screw, Self-Locking - Hex Washer Head (5/16-18 x 1/2")	34	301-8851	1	Bracket, Mounting
4	508-0051	1	Grommet (2" Hole)	35	338-2277	1	Harness, Wiring - DC (Includes Connector Housing and Contact Pins) (DC Door Assembly to Engine Monitor)
5	301-8065	1	Box, Control	36	323-1308	1	Housing, Connector - 12 Place (J4)
6	402-0527	4	Isolator, Vibration	37	323-1302	12	Pin, Contact
7	800-0045	4	Screw, Cap - Hex Head (5/16-18 x 3/8")	38			Monitor, Engine (Includes Fuses) (A11)
8	850-0045	4	Washer, Lock - Spring (5/16")		300-2810	1	7 Light Control
9	508-0001	1	Grommet (1-1/16" Hole)		300-2812	1	12 Light Control
10	406-0332	2	Receptacle, Fastener	39			Fuse
11	406-0333	2	Stud, Fastener		321-0270	2	20 Amp (F1, F2)
12	406-0334	2	Washer, Stud Retainer		321-0231	1	15 Amp (F3)
13	332-0052	2	Clip, Wire		321-0094	2	5 Amp (F4, F5)
14	870-0131	3	Nut, Hex - With ET (#10-32)	40	-	1	Door Assembly, Control - AC (See Separate Page for Components)
15	871-0015	1	Nut, Hex (1/4-20) Grounding Stud	41	-	1	Door Assembly, Control - DC (See Separate Page for Components)
16	853-0013	1	Washer, Lock - ET (1/4") Grounding Stud	42			Harness, Wiring - Engine to Control
17	337-0049	1	Strap, Ground		338-2436	1	Spec E (Includes Connector Housings and Sockets)
18	800-0024	1	Screw, Cap - Hex Head (5/16-18 x 1/2")		338-2621	1	Begin Spec F (Includes Connector Housings, Sockets, Rectifier, Resistor, and Mounting Screw)
19	856-0008	1	Washer, Lock - EIT (5/16")	43	800-1003	1	Screw, Cap - Hex Head (1/4-20 x 1/2") Begin Spec F
20	821-0004	8	Screw, Self-Locking - Hex Washer Head (#10-32 x 5/16")	44			Housing, Connector
21	332-0507	1	Block, Terminal - 12 Place (TB21)		323-1304	1	6 Place (J2)
22	332-2723	1	Strip, Marker - 12 Place		323-1306	1	8 Place (J1)
23	812-0065	2	Screw, Machine - Round Head (#6-32 x 5/8")	45			Socket, Female
24			Harness, Wiring		323-1200	12	Spec E
	338-2278	1	AC Door Assembly to TB21 Terminal Block (Includes TB21 Terminal Block)		323-1200	11	Begin Spec F
	338-1835	1	Alarm Relay (8 Wire) (A13 to A11TB1 and TB2)	46	353-0094-01	1	Resistor (R1) Begin Spec F
	338-1836	1	Alarm Relay (5 Wire) (A14 to A11TB2)	47	357-0030	1	Rectifier (CR1) Begin Spec F
	338-1904	1	Time Delay Start/Stop (A15 to A11TB1)	48	319-0754	1	Plate, Mounting
			Electronic Overspeed (A16 to A11TB1-1, -5, -10 and AUX-P2, P3)	49	-	1	Relay, Run (See Separate Page for Components)
	338-2447	1	200-500 kW Sets	50	319-0652	1	Plate, Mounting (Used With Model MX321 Voltage Regulator)
	338-2529	1	501-1200 kW Sets	51	812-0084	4	Screw, Machine - Round Head (#8-32 x 1")
25			Regulator, Voltage (VR21)	52			Board, Printed Circuit - Time Delay - Start/Stop/Preheat (A15)
	305-0824	1	Used Without Permanent Magnet Exciter Generators (Model SX440) (Also available as Newage Part Number E000-24030)		300-2899	1	Without Preheat
	305-0823	1	Used With Permanent Magnet Exciter Generators (Model MX321) (Also Available as Newage Part Number E000-23210)		300-2900	1	With Preheat
26	332-1043	1	Jumper, Terminal (TB21-22 to 21)	53	332-2957	1	Terminal, Tab (Double) (A15TB1-7)
27	350-1222	1	Resistor (TB21-32 to 26)	54	305-0818-02	1	Board, Printed Circuit - Electronic Overspeed (A16)
28	815-0540	4	Screw, Machine - Round Head - Cross Recessed with IT (#8-32 x 1")	55	813-0108	4	Screw, Machine - Round Head (#10-32 x 1-1/2")
29	300-2856	1	Board, Printed Circuit - Alarm Relay (12 Light Control) (A14)	56	850-0030	4	Washer, Lock - Spring (#10)
30	812-0063	8	Screw, Machine - Round Head (#6-32 x 1/2")	57	526-0008	4	Washer, Flat (#10)
31	853-0003	8	Washer, Lock - ET (#6)	58	305-0868	1	Transformer, Isolation (Also Available as Newage Part Number E000-22070) (T30)

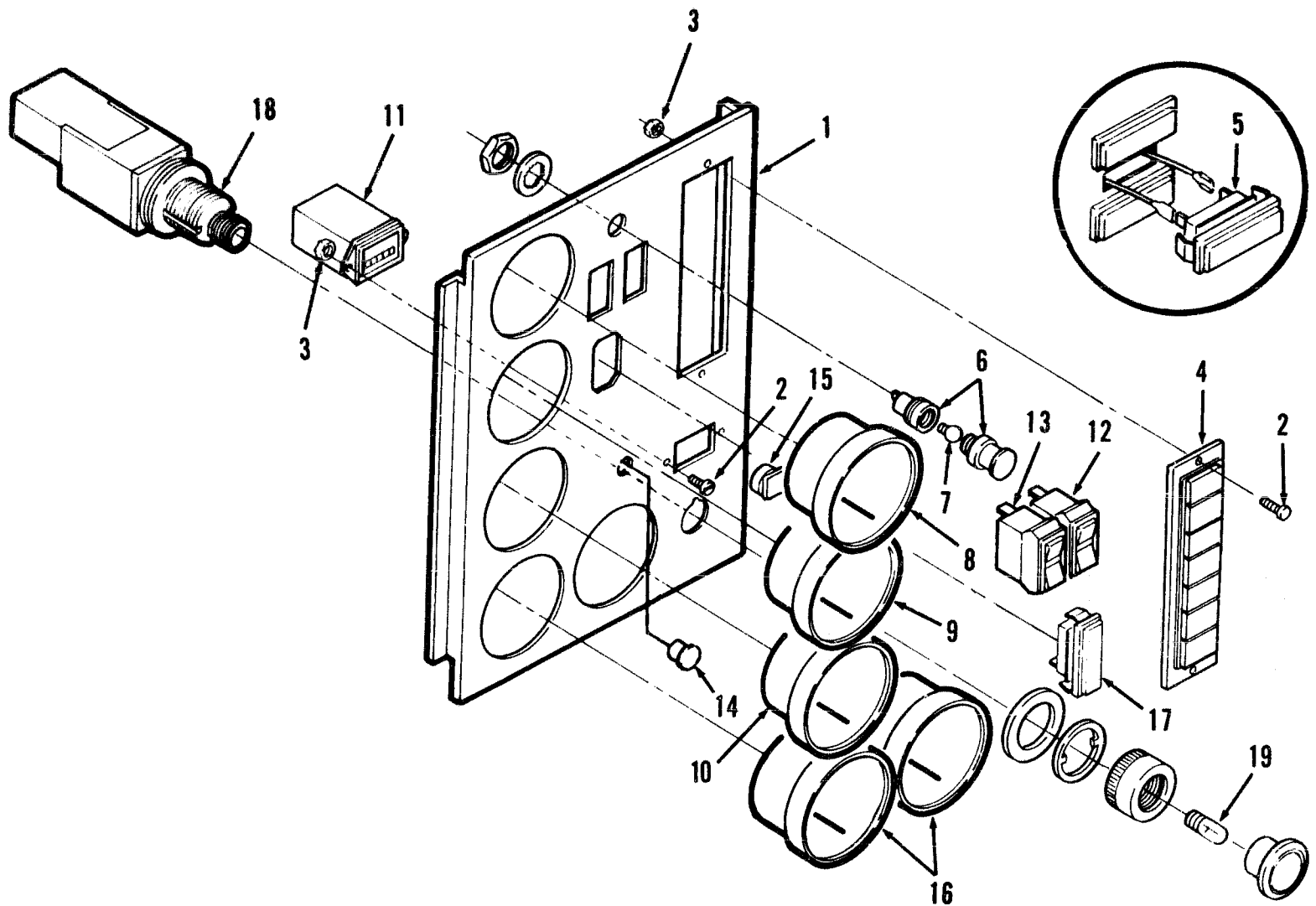
AC Control Door Assembly



928A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9054-03	1	Door, Control - AC	4	302-1720	1	Meter, Frequency (M23)
	301-9054-02	1	Doors Without Round Meter Holes	5	517-0131	1	Plug, Hole (3/8" Hole)
	301-9054-01	1	Doors With Three Round Meter Holes	6	322-0363	1	Light, Indicator - Upper/Lower Scale (DS21, DS22)
	301-9054-04	1	Doors With Four Round Meter Holes	7			Potentiometer - Voltage Adjust (R21)
			Doors With Five Round Meter Holes		303-0261	1	1.5K Ohms (Used With Model SX440 Voltage Regulator)
2	302-1148	1	Voltmeter (M21)		303-0285	1	5K Ohms (Used With Model MX321 Voltage Regulator)
	302-1753	1	0-300/600	8	308-0882	1	Switch, Rotary - Voltmeter/Ammeter (Knob Not Included) (S21)
	302-1938	1	0-750	9	303-0032	1	Knob, Rotary Switch
3	302-1798	1	Ammeter (M22)	10			Breaker, Circuit (CB21)
	302-1799	1	0-1000/2000		320-1688-01	1	Without Auxiliary Contacts
	302-1725	1	0-1500/3000		320-1688-02	1	With Auxiliary Contacts
	302-1726	1	0-375/750				
	302-1727	1	0-400/800				
	302-1728	1	0-500/1000				
	302-1729	1	0-600/1200				
			0-750/1500				

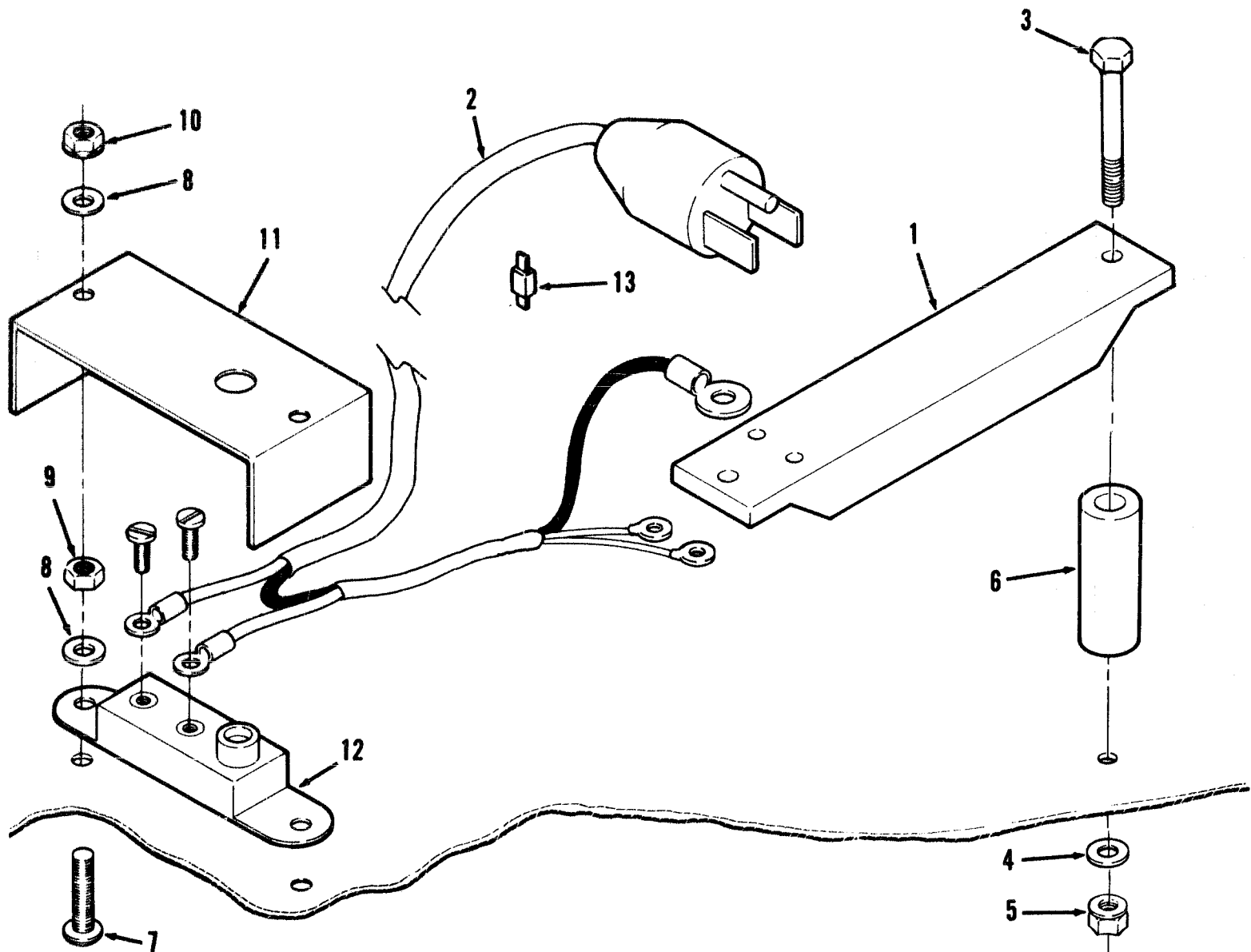
DC Control Door Assembly



948B

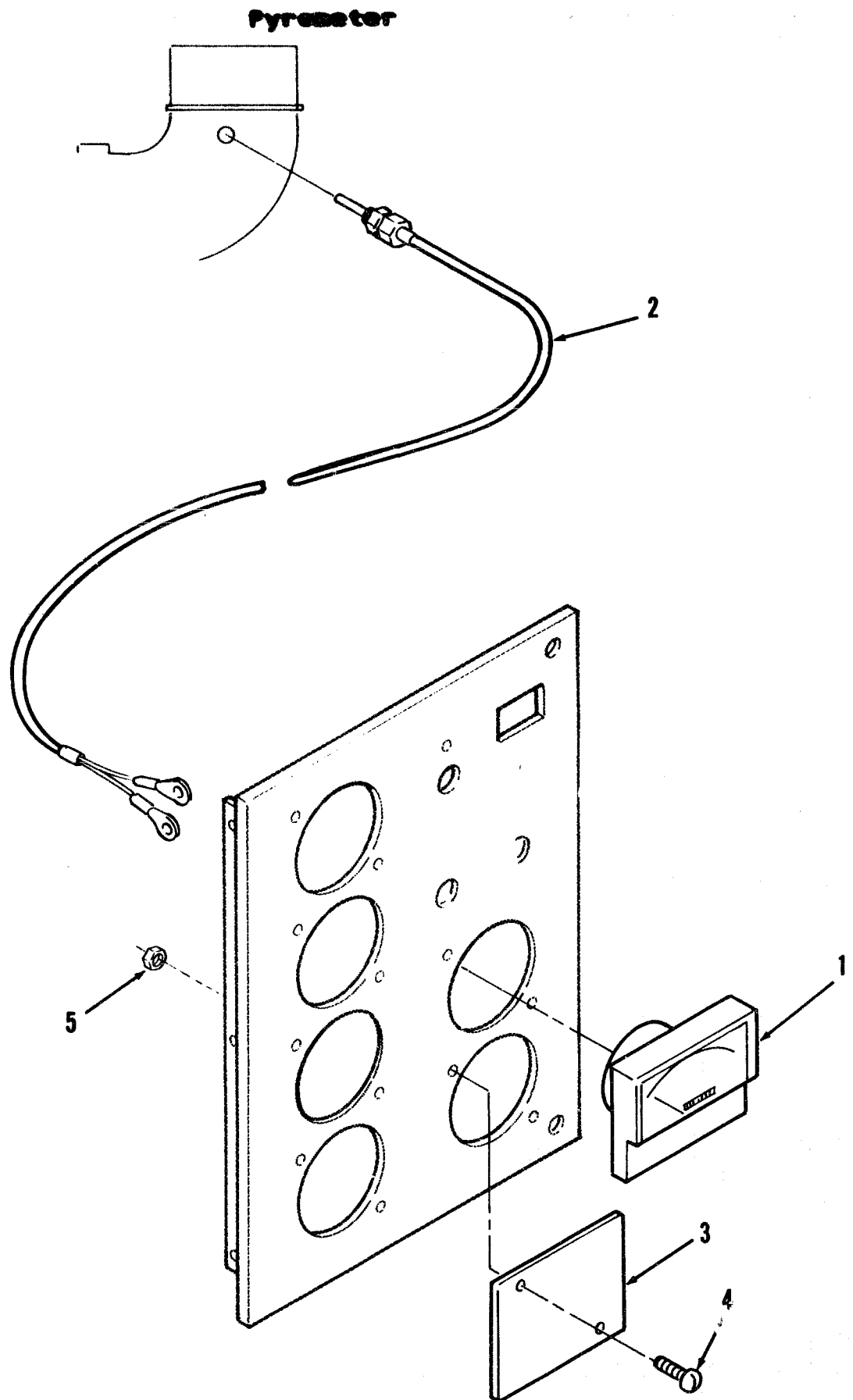
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9055-02	1	Door, Control - DC Doors With Three Round Gauge Holes	9	193-0351	1	Gauge, Water Temperature (M12)
	301-9055-01	1	Doors With Five Round Gauge Holes	10	302-1642	1	Voltmeter (M13)
2	815-0385	4	Screw, Machine - 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	308-0892	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	322-0369-02	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

Control Heater



950B

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	9	860-0006	2	Nut, Hex (#6-32)
			240 Volt Heater - Includes Diode (Three Prong Plug not Included)	10	870-0183	2	Nut, Hex - With ET (#6-32)
3	800-0034	2	Screw, Cap - Hex Head (5/16-18 x 2-1/4")	11	301-1886	1	Cover
4	526-0113	2	Washer, Flat (11/32" ID x 1" OD x 3/32" Thk)	12	309-0128	1	Thermostat (S1)
				13	357-0013	1	Diode (3 Amp, 400 Volt DC)

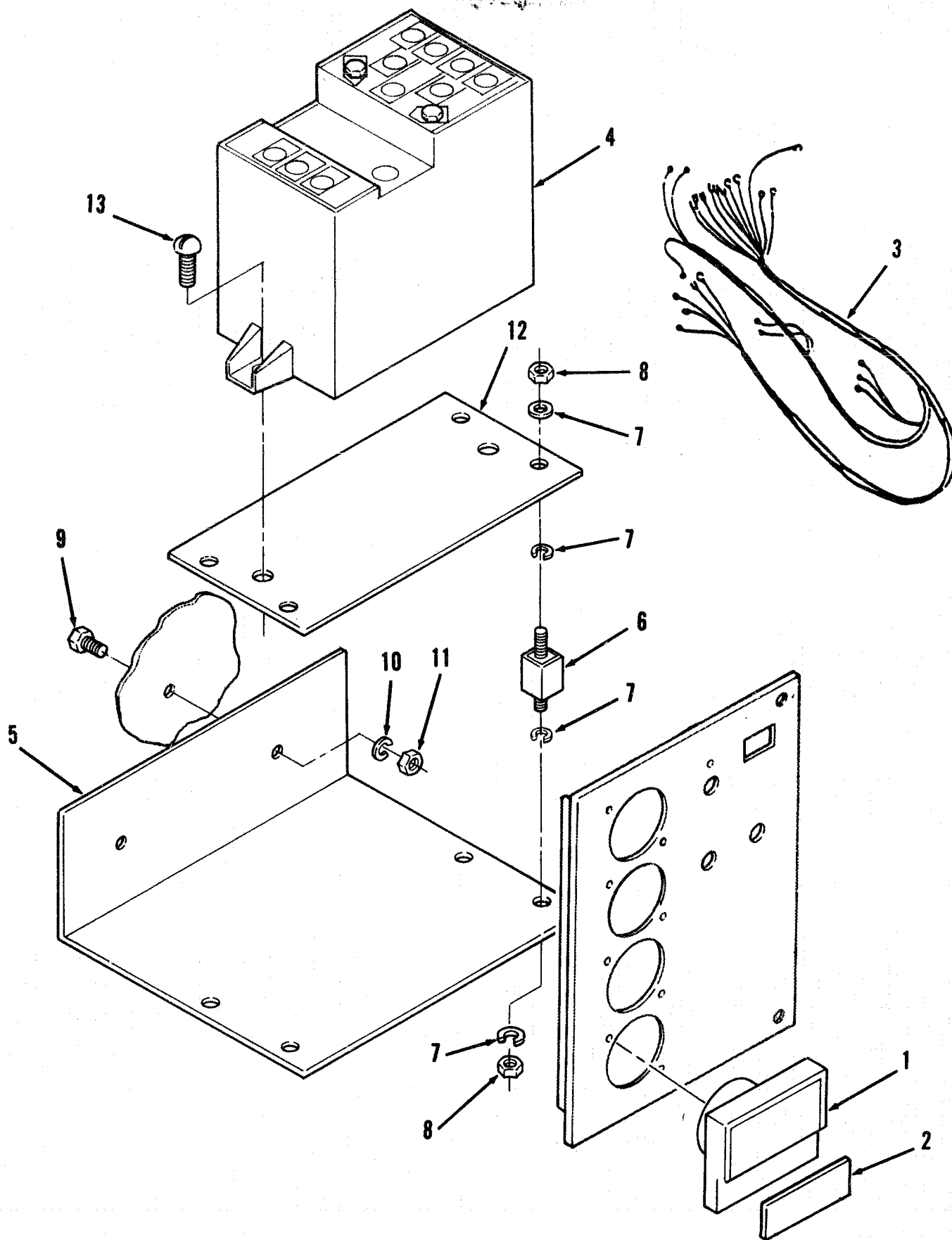


929A

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)

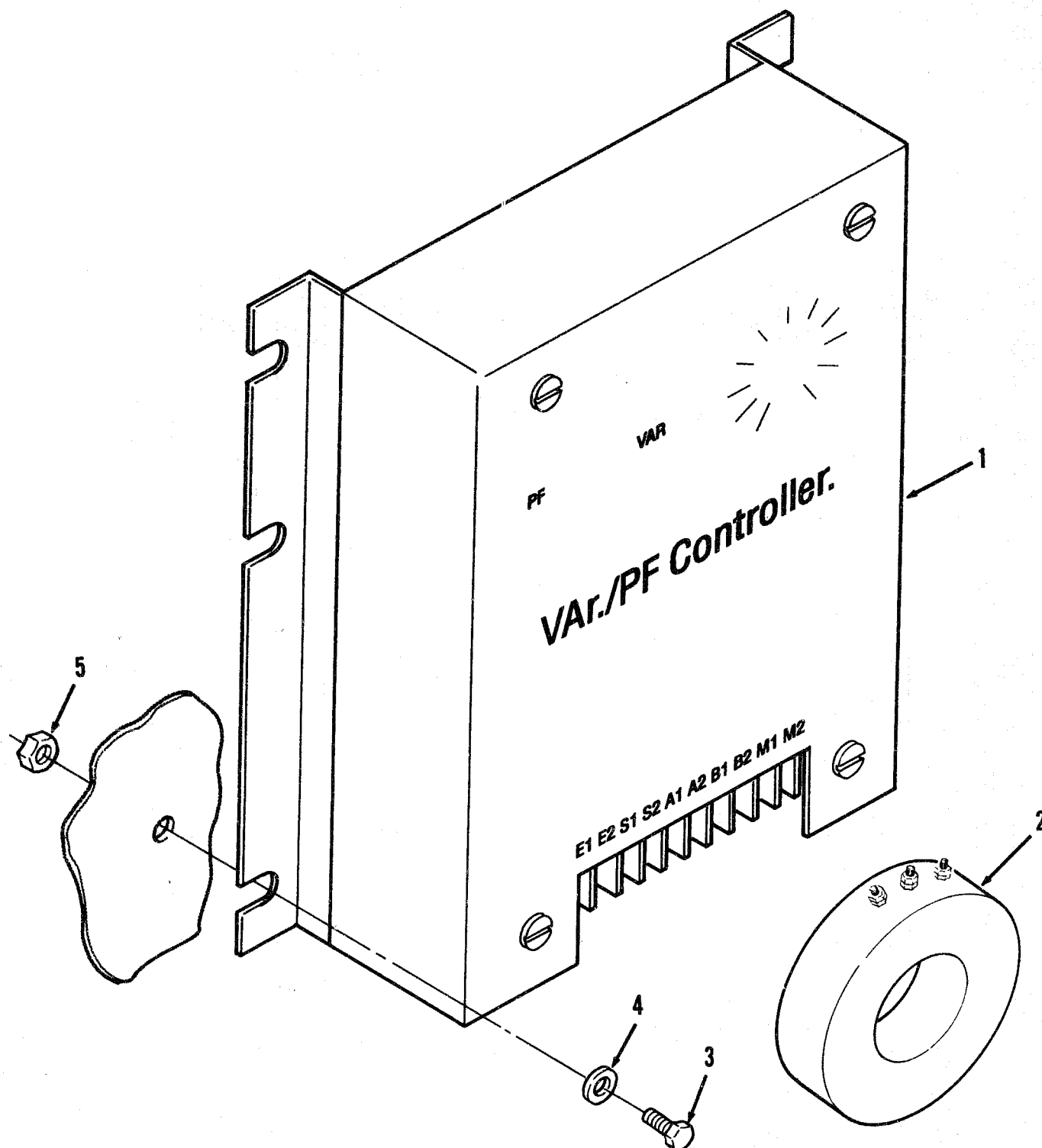
Wattmeter



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)	5	301-6987	1	Bracket, Mounting
2			Dial, Wattmeter	6	402-0354	4	Mount, Shock
	302-1721-08	1	0-200 kW Rating	7	856-0002	16	Washer, Lock - ET (#8)
	302-1721-09	1	0-250 kW Rating	8	860-0008	8	Nut, Hex (#8-32)
	302-1721-10	1	0-300 kW Rating	9	821-0017	2	Screw, Locking - Hex Washer Head (5/16-18 x 1/2")
	302-1721-11	1	0-350 kW Rating	10	850-0045	2	Washer, Lock - Spring (5/16")
	302-1721-12	1	0-400 kW Rating	11	862-0014	2	Nut, Hex (5/16-18)
3			Harness, Wiring - Wattmeter	12	319-0030	1	Plate, Mounting
	338-2478	1	120/240 Volt, Single Phase	13	813-0102	2	Screw, Machine - Round Head (#10-32 x 5/8")
	338-1936	1	Reconnectable WYE, Three Phase				
	338-2479	1	120/240 Volt Delta, Three Phase				
4			Transducer, Watts (A21)				
	302-1833-01	1	2-1/2 Element, Three Phase, Four Wire				
	302-1833-04	1	1-1/2 Element, Single Phase, Three Wire				
	302-1833-05	1	2 Element, Three Phase, Three Wire				

VAR Power Factor Controller

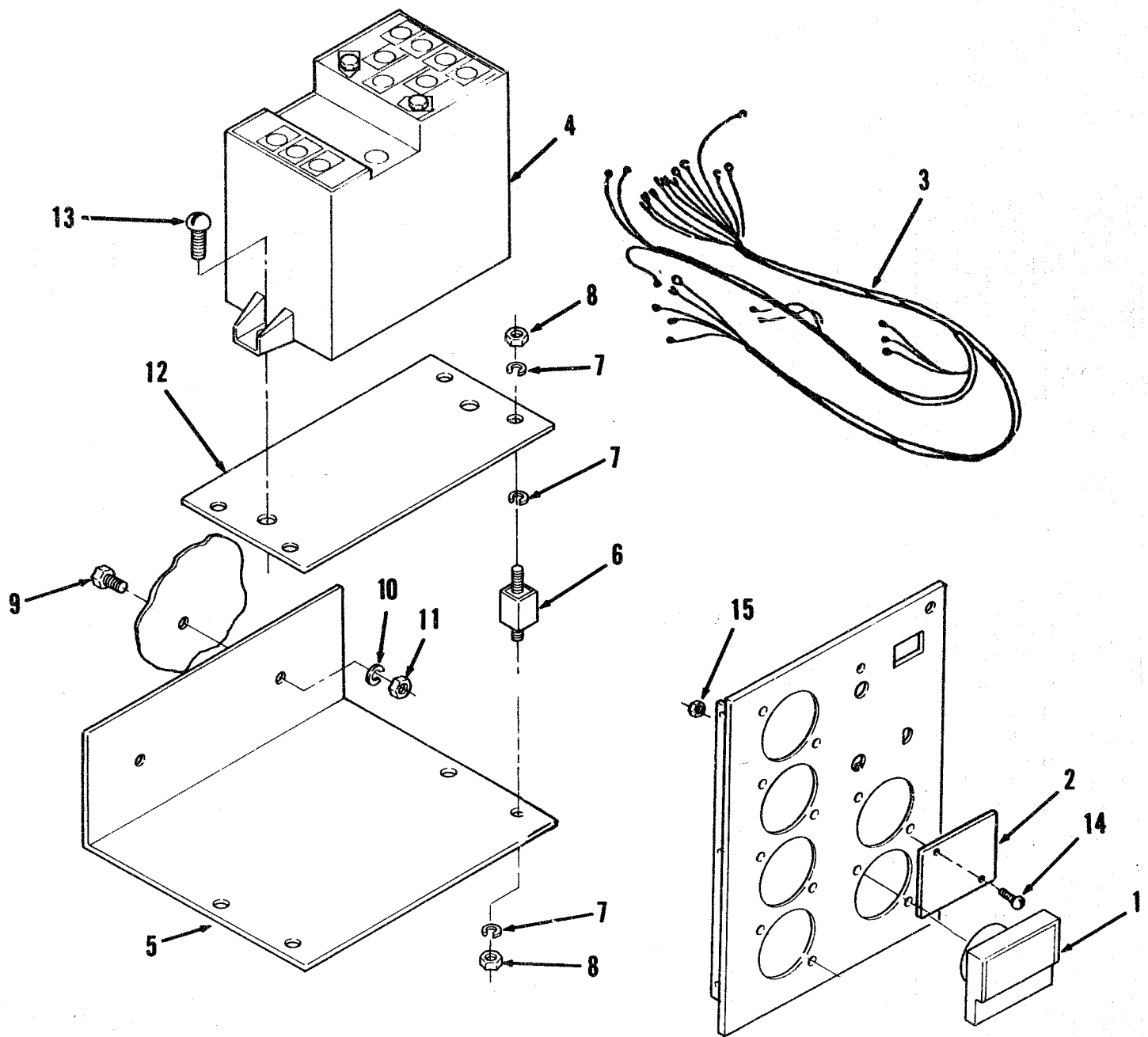


1010A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305-0836	1	Controller, Power Factor (Also Available as Newage Part Number E000-11010)
2	302-1845-07	1	Transformer, Current (CT25) Ratio 500/5
	302-1794-11	1	Ratio 1500/5

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	813-0103	4	Screw, Machine - Round Head (#10-32 x 3/4")
4	526-0008	4	Washer, Flat (#10)
5	870-0131	4	Nut, Hex - With EIT (#10-32)

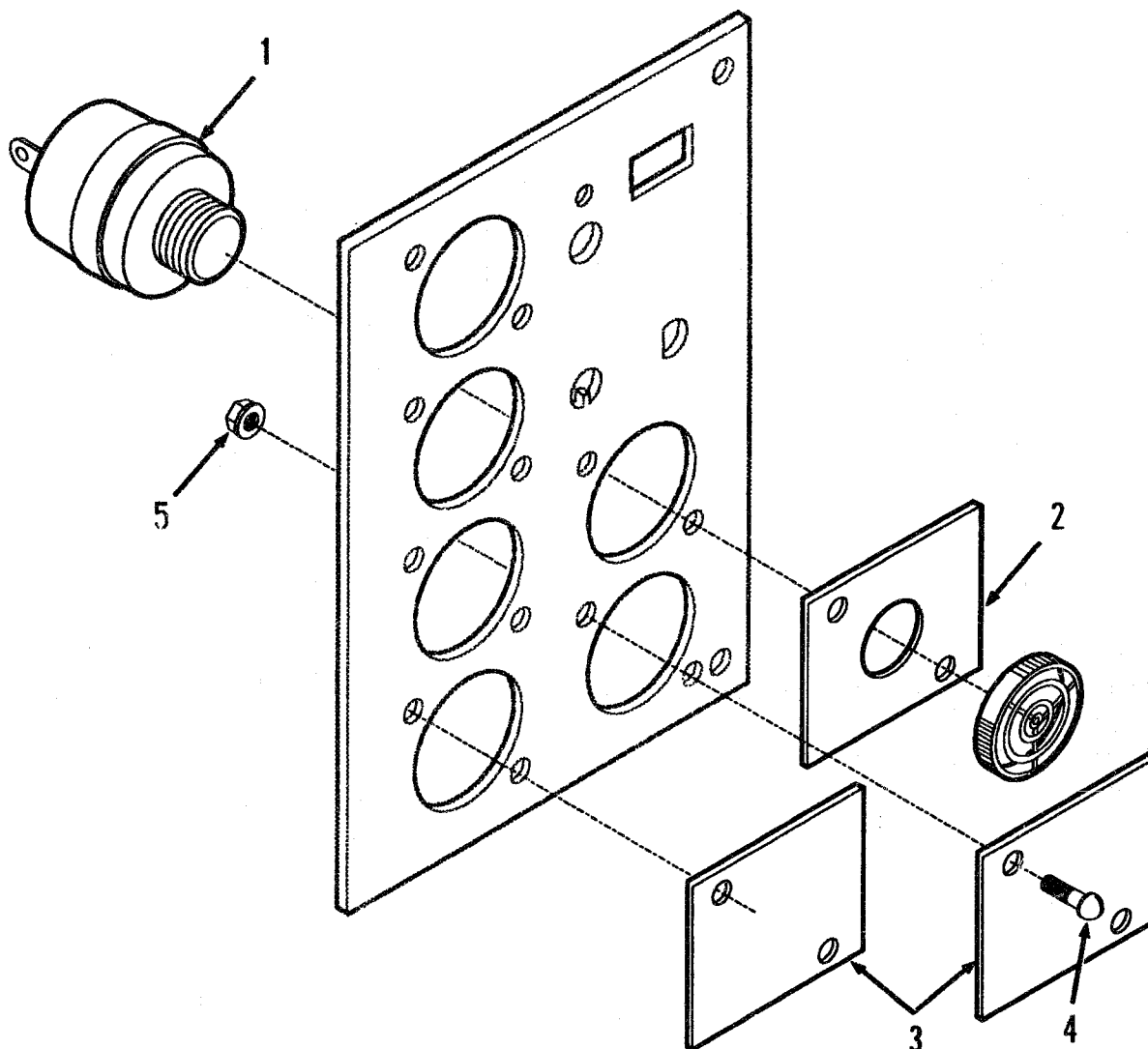
Power Factor Meter



943A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1883	1	Meter - Power Factor (M25)	10	850-0045	2	Washer, Lock - Spring (5/16")
2	301-9993	1	Plate, Cover	11	862-0014	2	Nut, Hex (5/16-18)
3	338-2368	1	Harness, Wiring - Meter	12	319-0030	1	Plate, Mounting
4	302-1833-03	1	Transducer, Watts (A21)	13	813-0102	2	Screw, Machine - Round Head (#10-32 x 5/8")
5	301-6987	1	Bracket, Mounting	14	815-0385	2	Screw, Machine - Round Head (#6-32 x 1/2")
6	402-0354	4	Mount, Shock	15	870-0183	2	Nut, Hex - With ET (#6-32)
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")				

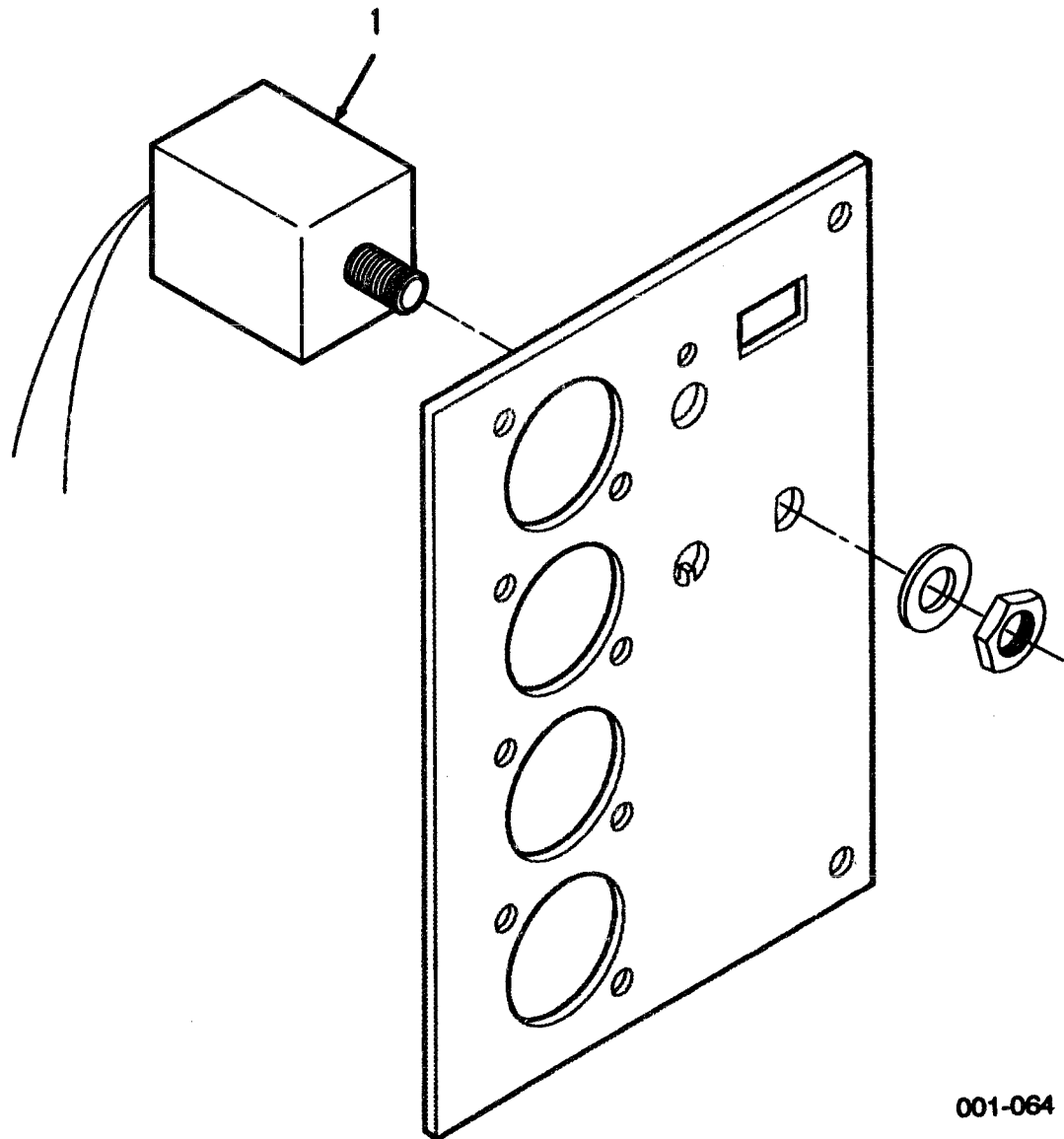
Audible Signal



001-053

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0133	1	Signal, Audible (DS2)	4	815-0385	6	Screw, Machine - Round Head (#6-32 x 1/2")
2	319-0898	1	Plate, Mounting	5	870-0183	6	Nut, Hex - With ET (#6-32)
3	301-9993	2	Plate, Cover				

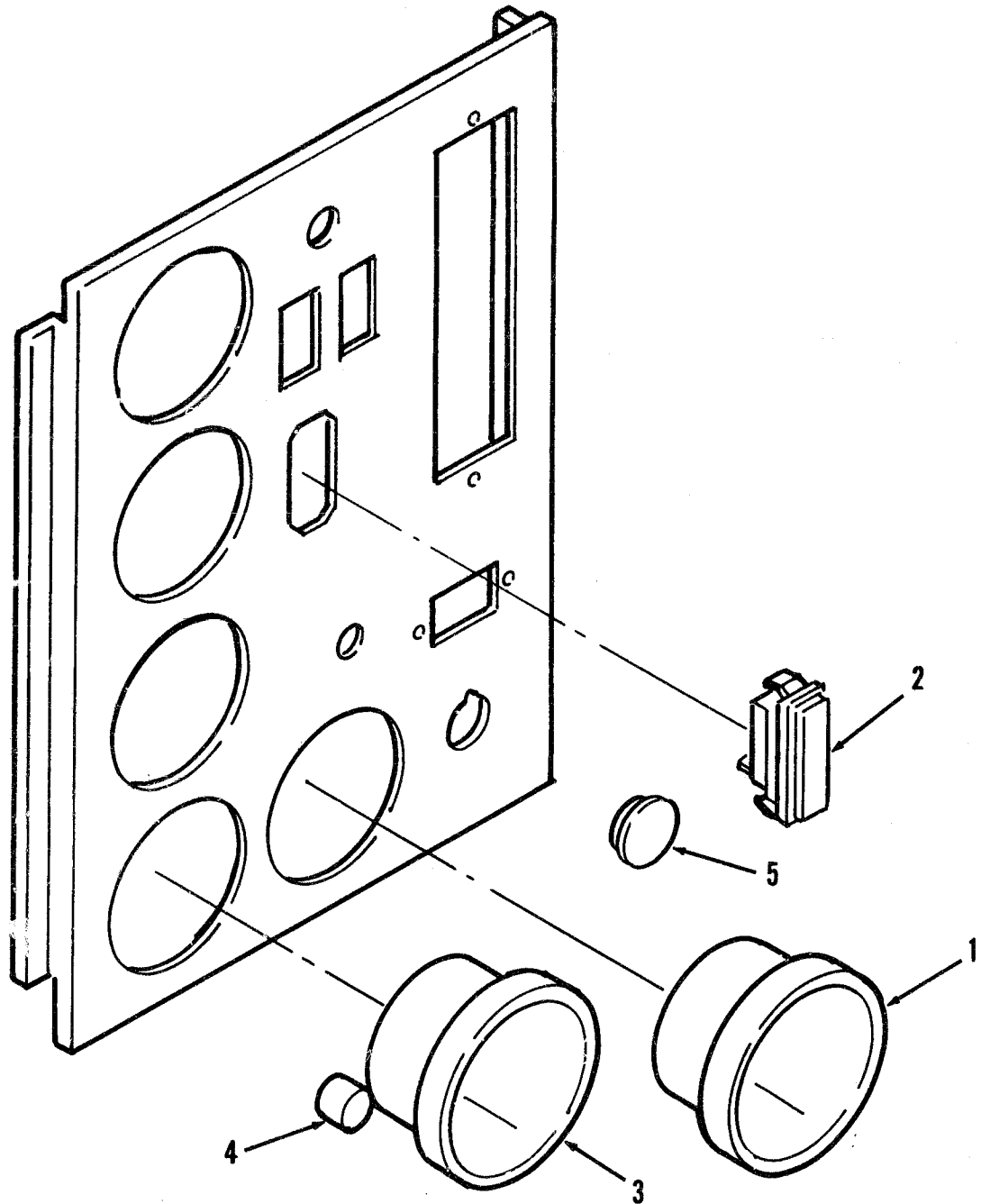
Trip Relay



001-064

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

Oil Temperature Gauge

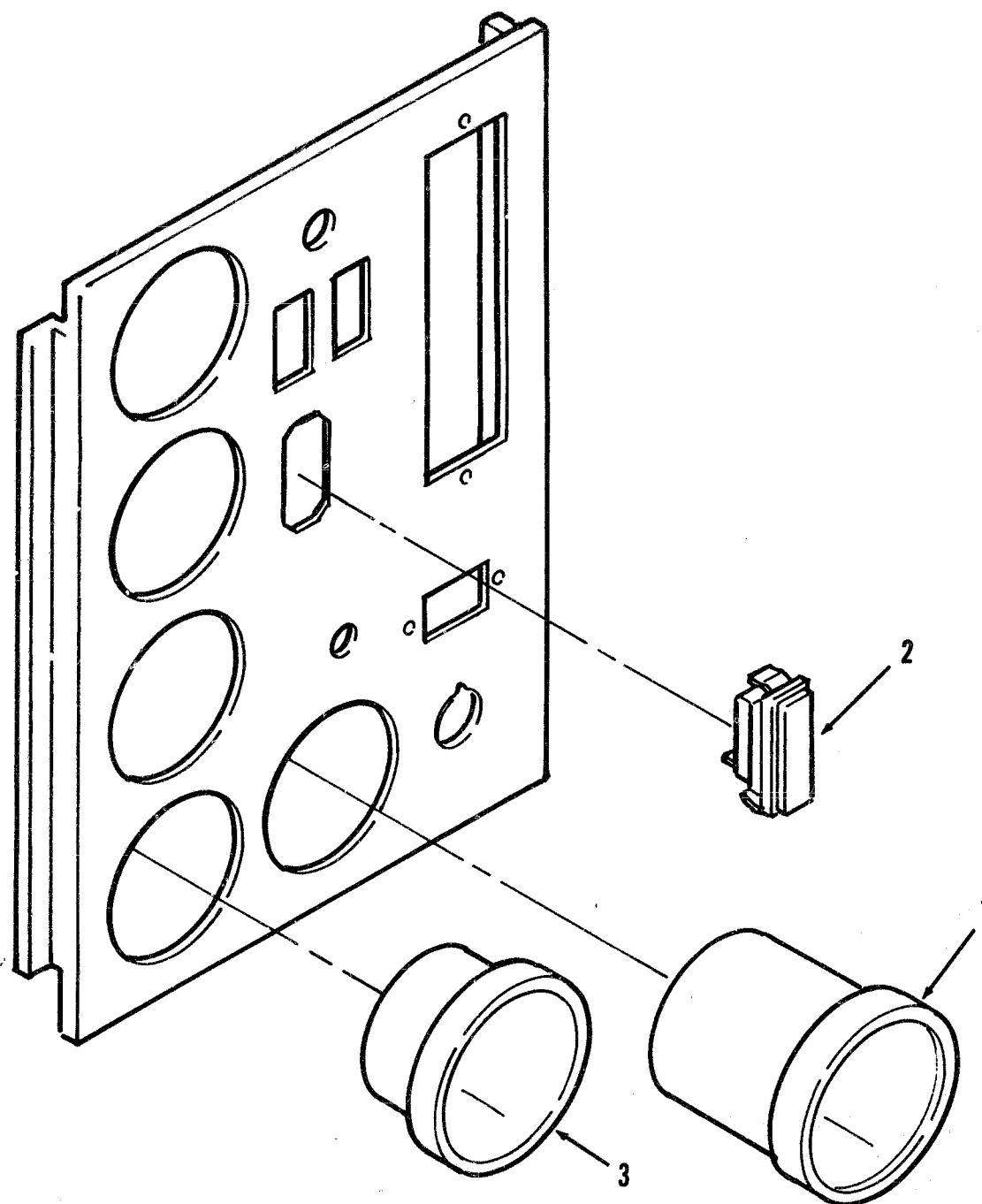


923A

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)

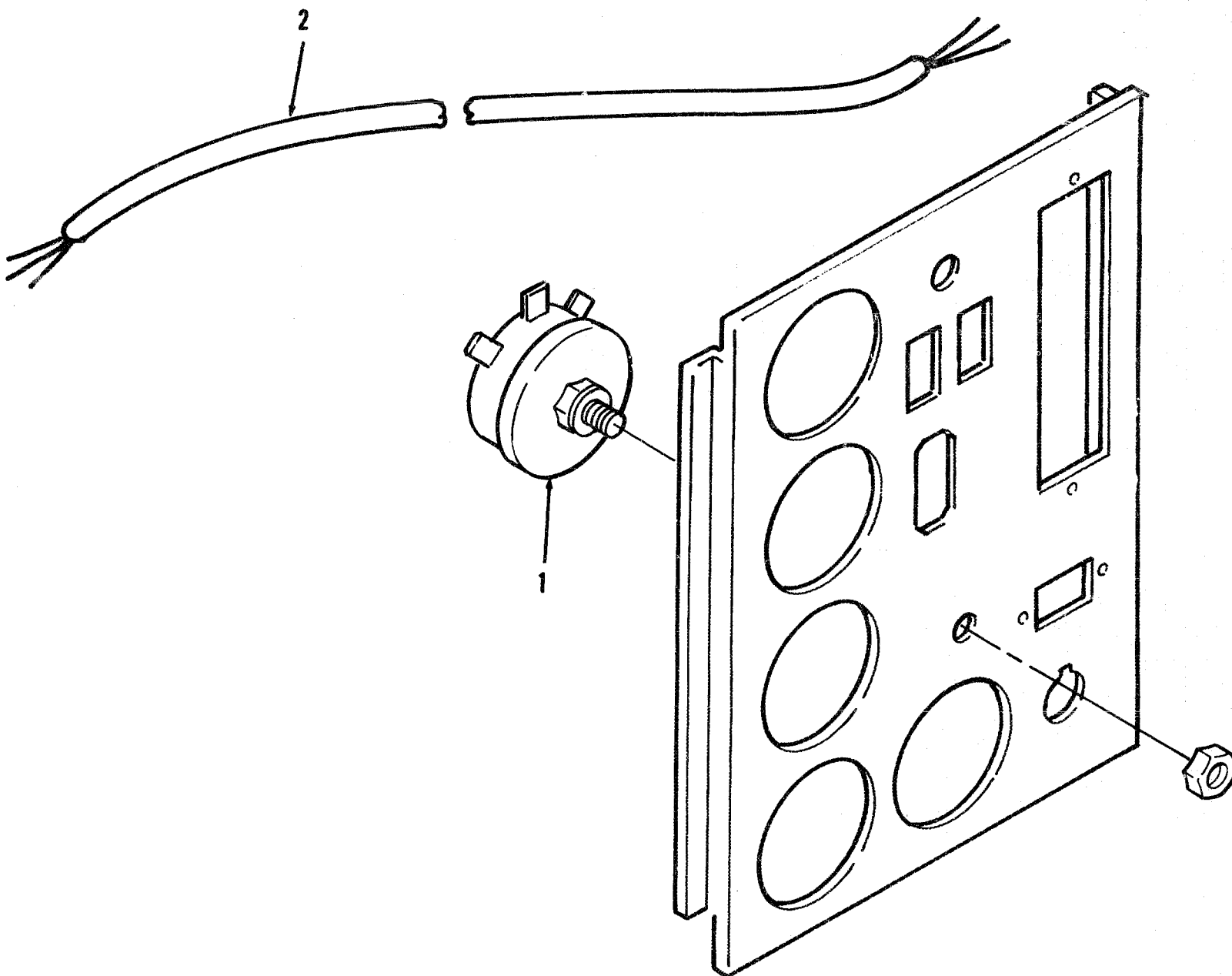
Tachometer



924A

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

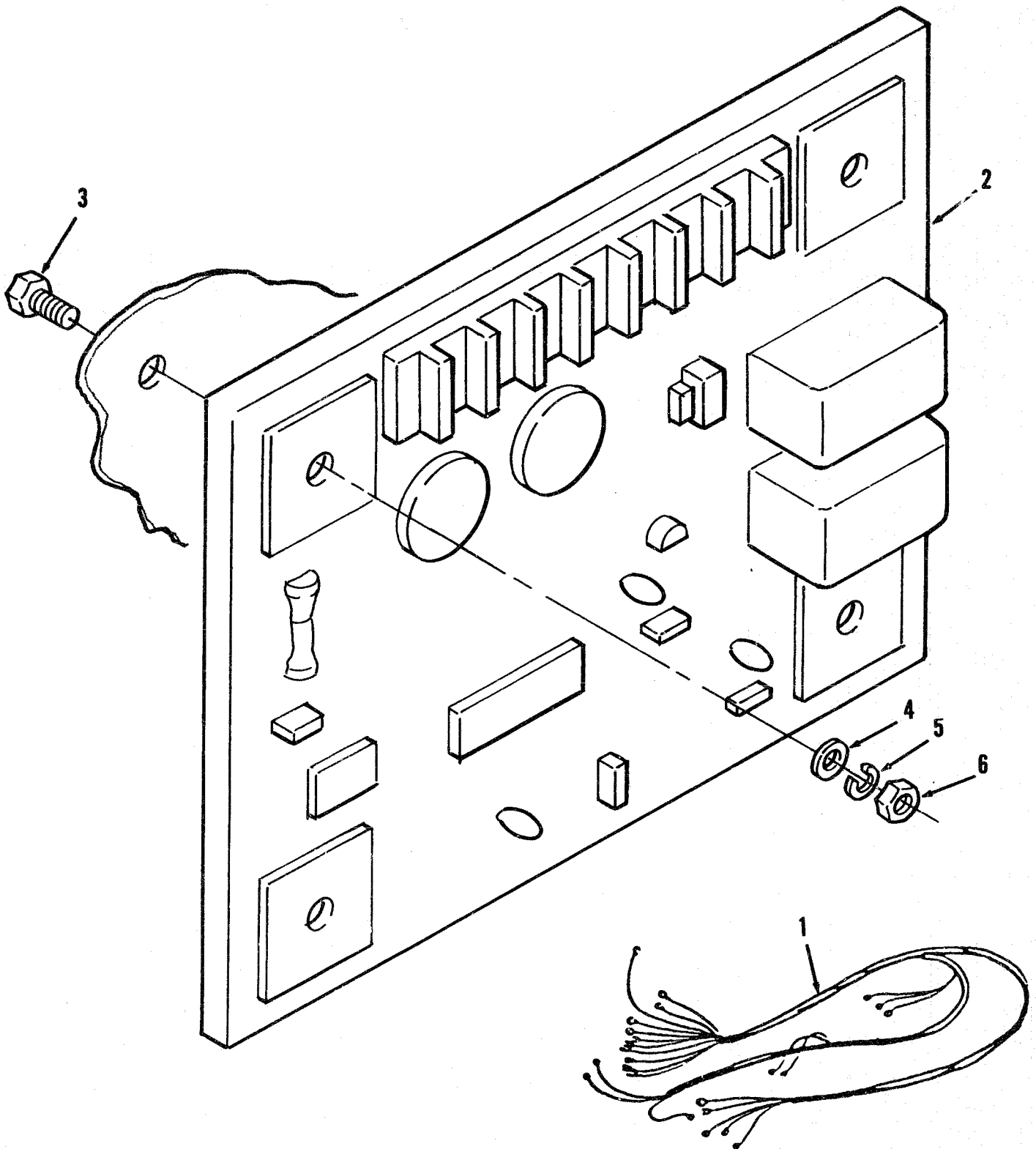
Potentiometer
(Speed Adjusting)



938A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	151-0402	1	Potentiometer - Speed Adjusting - Governor Controller (R21)
2	334-0116	1	Cable, Shielded (10')

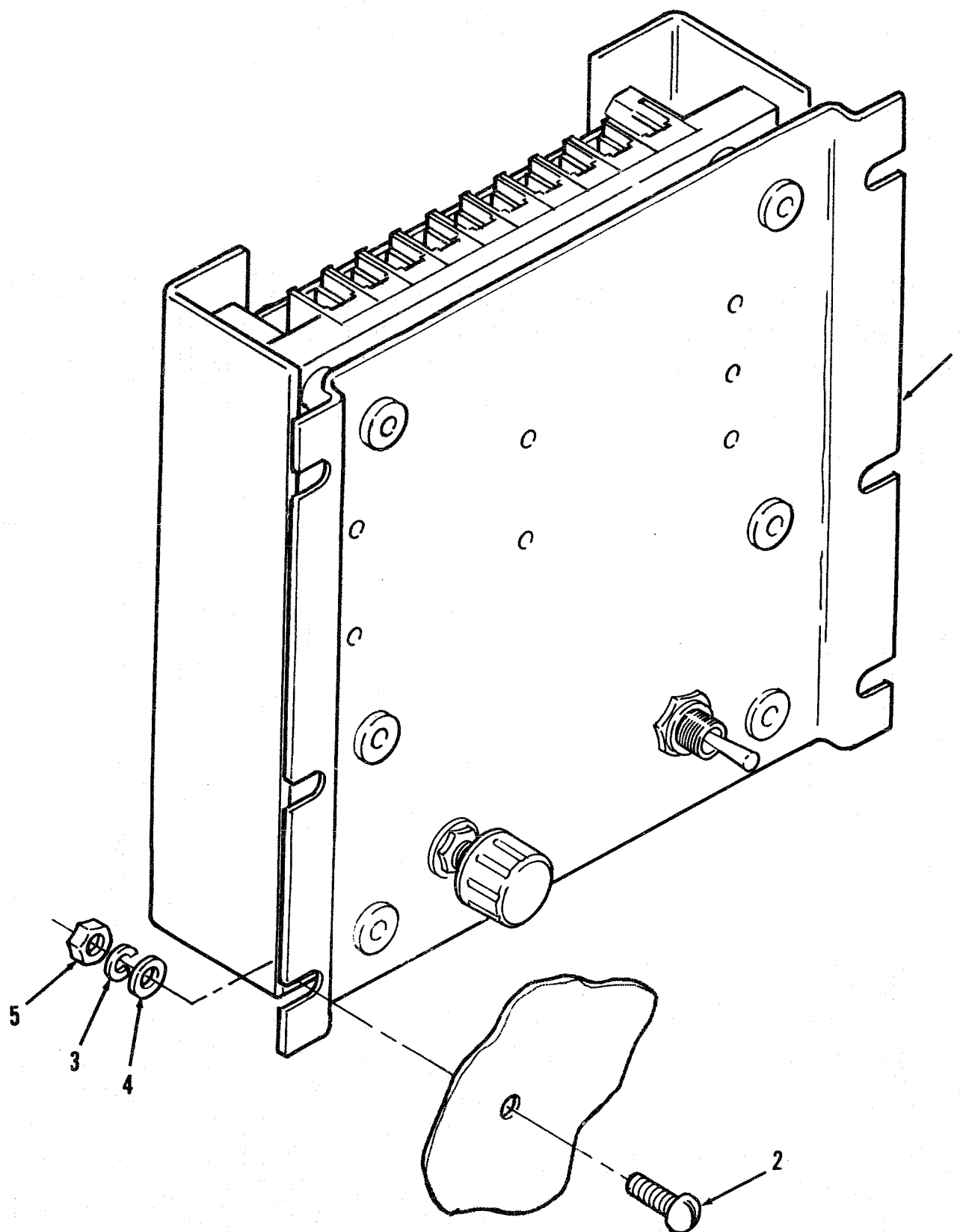
Excitation Loss Module



939A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-2455	1	Harness, Wiring	4	526-2060	4	Washer, Flat (M5)
2	305-0821-02	1	Module (Also available as Newage part number 450-16300)	5	850-2005	4	Washer, Lock - Spring (M5)
3	800-2013	4	Screw, Cap - Hex Head (M5 x 35mm)	6	860-2006	4	Nut, Hex (M5)

Manual Voltage Regulator

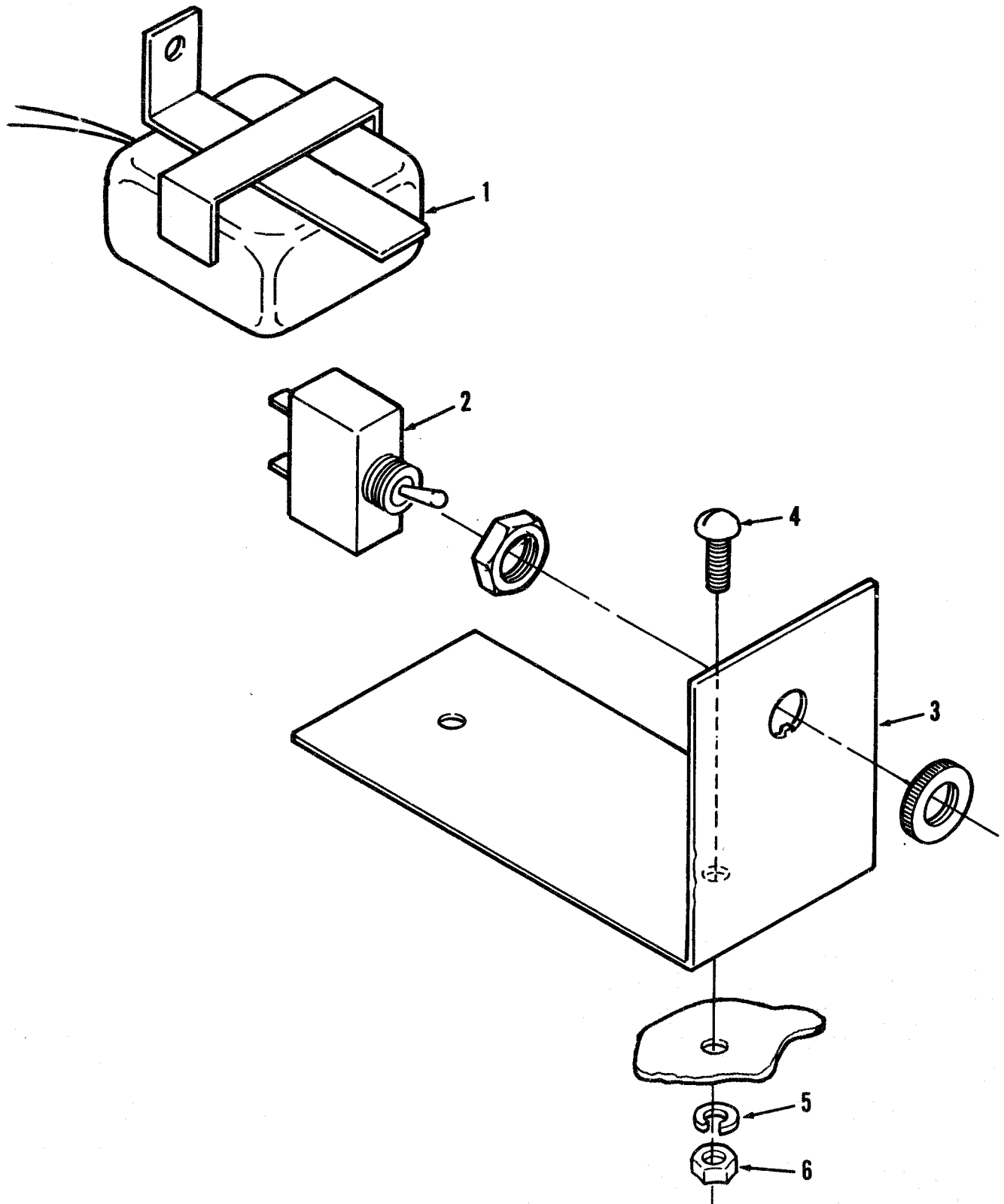


930A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305-0817	1	Regulator, Voltage - Manual (Also Available as Newage Part Number 450-11400)
2	813-0100	4	Screw, Machine - Round Head (#10-32 x 1/2")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	850-0030	4	Washer, Lock - Spring (#10)
4	526-0008	4	Washer, Flat (#10)
5	871-0010	4	Nut, Hex (#10-32)

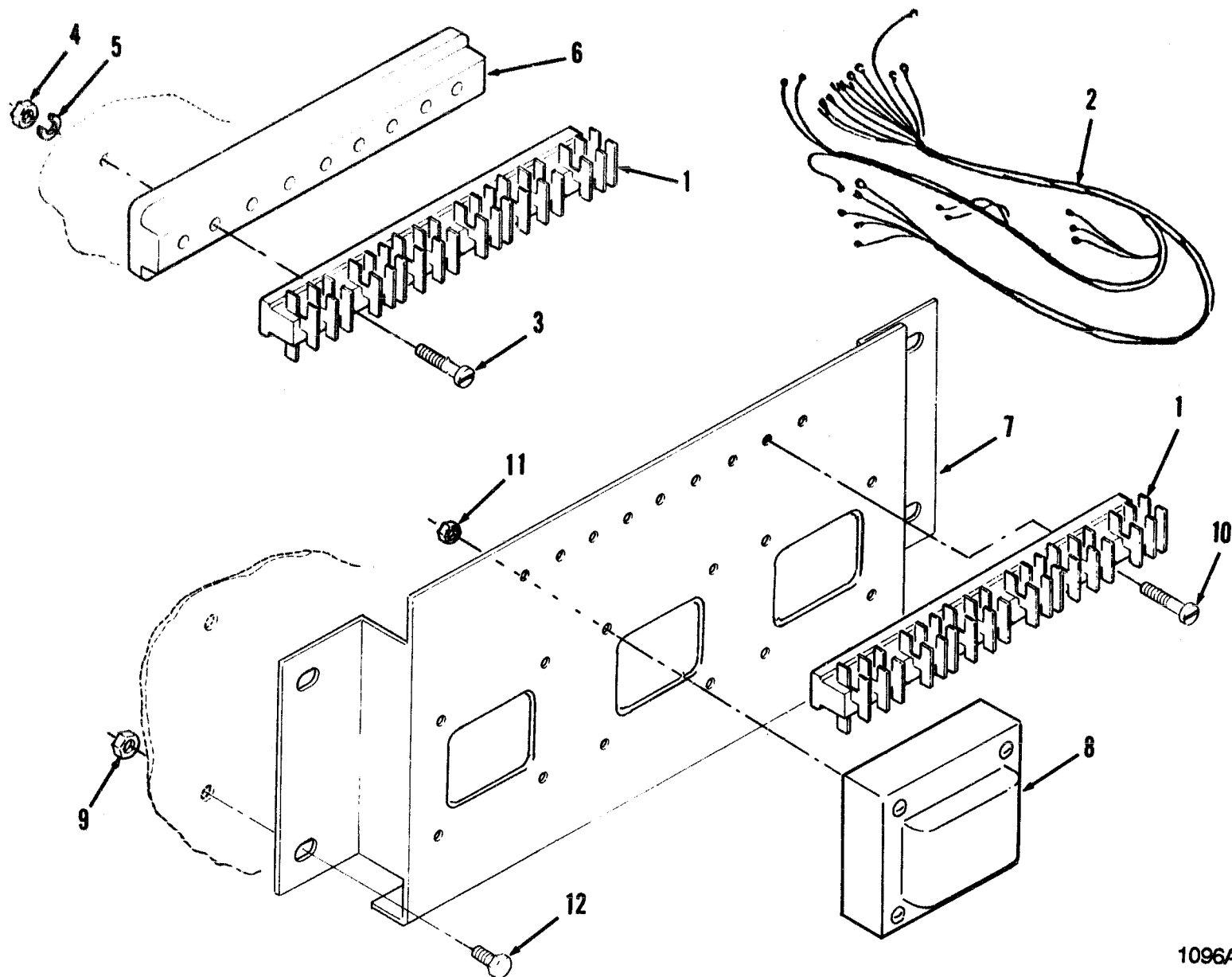
Cross Current Compensation Circuit



925A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1852-01	1	Transformer, Current 600:0.3846 Ratio	4	813-0100	2	Screw, Machine - Round Head (#10-32 x 1/2")
	302-1852-02	1	800:0.3810 Ratio	5	850-0030	2	Washer, Lock - Spring (#10)
2	308-0069	1	Switch, Toggle (S22)	6	870-0053	2	Nut, Hex (#10-32)
3	301-9657	1	Bracket, Mounting				

Auxiliary Terminal Block

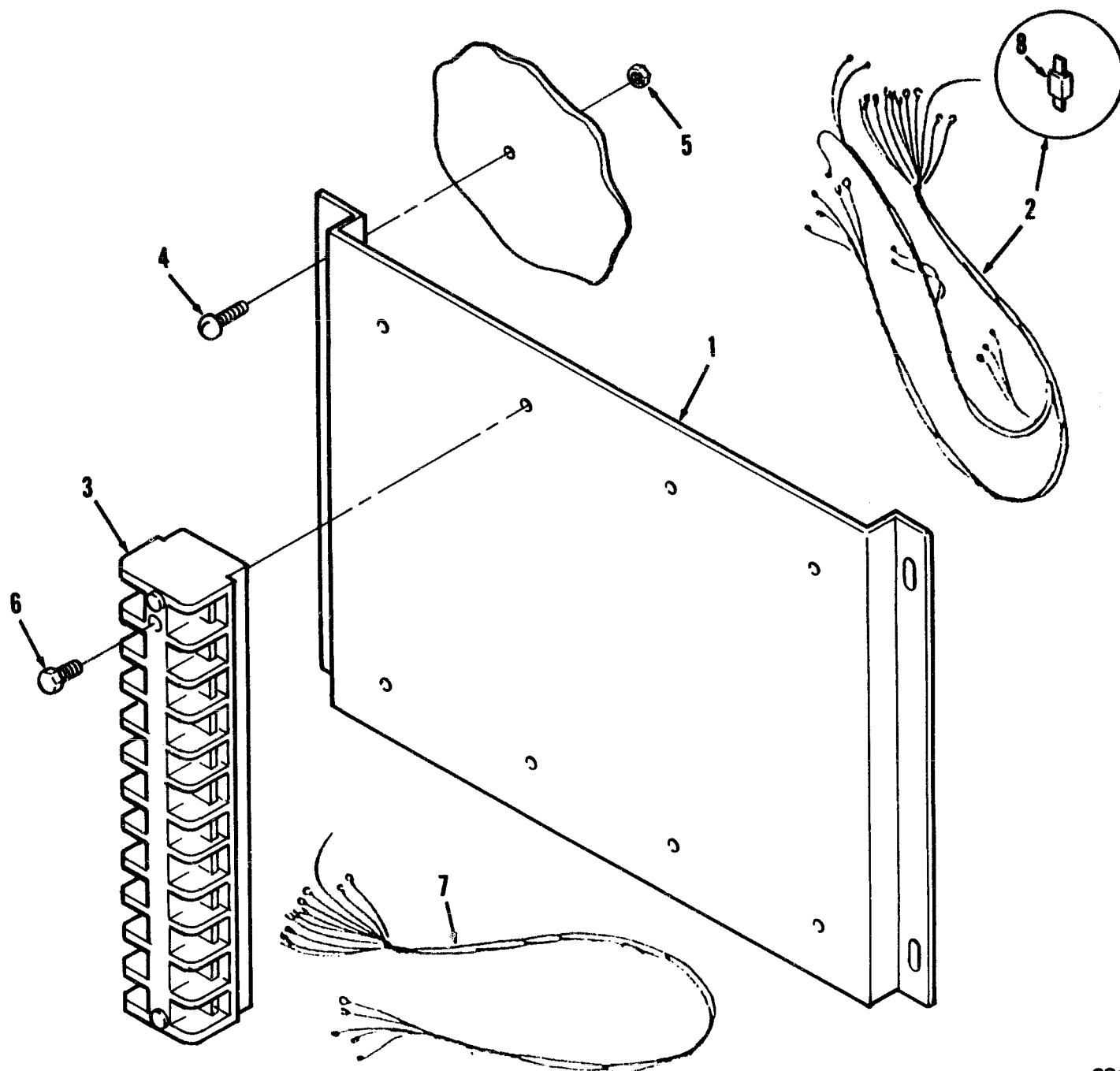


1096A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-3107	2	Block, Terminal (Also Available as Newage Part Number B450-14936)
2	338-2491	1	Harness, Wiring - AC 190-240, 380-480 Volt; 12 Lead Reconnectable Generator
	338-2796	1	600 Volt Generator
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 Available as Newage Part Number 130-20102)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	319-1245	1	Bracket, Transformer
8	315-0717	3	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")

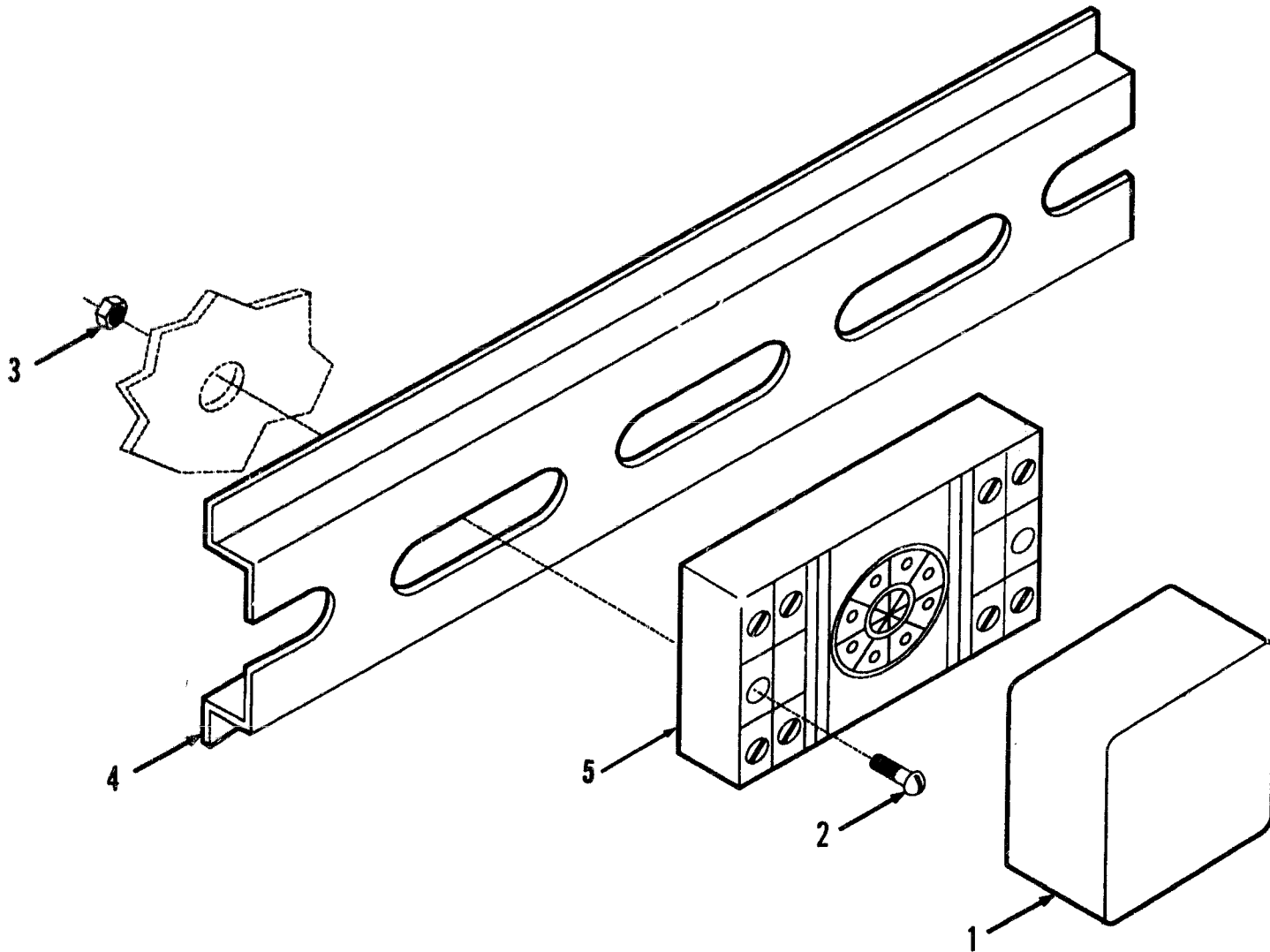
Paralleling Interconnect Terminal Blocks



921A

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	Block, Terminal (Quantity Used As Required)
	319-1137	1	With Provision for Four Terminal Blocks (7-1/2" x 12")	4	813-0100	4	Screw, Machine - Round Head (#10-32 x 1/2")
2		1	Harness, Wiring - Paralleling (TB11 to A11, VR21, CB21)	5	870-0131	4	Nut, Hex - With ET (#10-32)
	338-2030	1	Used with Three Terminal Blocks (Includes Three Terminal Blocks and Rectifier)	6			Screw, Machine - Round Head (#8-32 x 1")
	338-2590	1	Used with Four Terminal Blocks (Includes Four Terminal Blocks)		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

Thermistor Relay

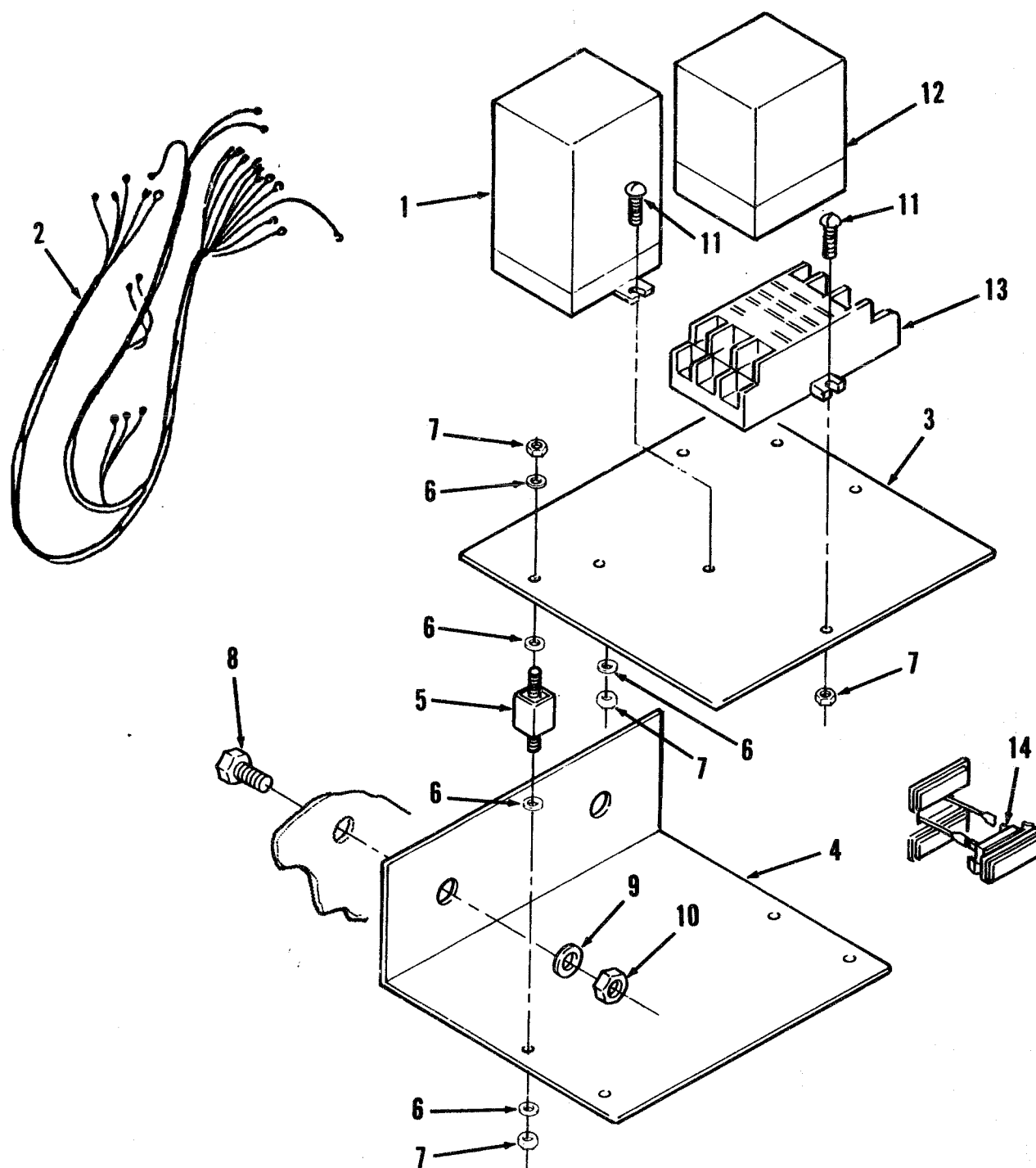


001-063

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

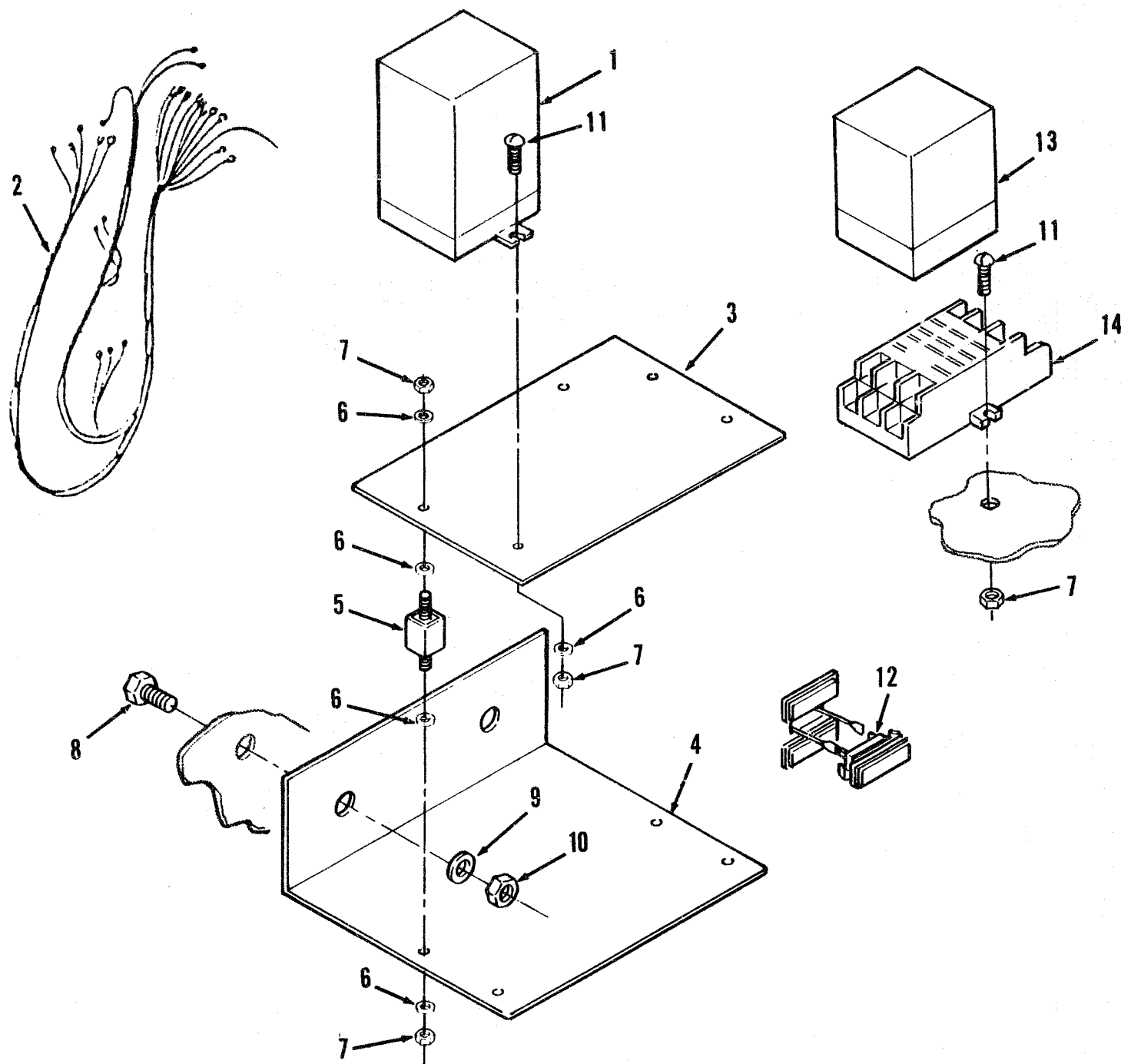
Over/Under Voltage Relay



1013A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Relay, Voltage - Over/Under (A17)	8	821-0017	2	Screw, Locking - Hex Washer Head (5/16-18 x 1/2")
	307-2552	1	120 Volt, Single Phase Sets	9	850-0045	2	Washer, Lock - Spring (5/16")
	307-2657	1	380 Volt, Three Phase Sets	10	862-0014	2	Nut, 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)				

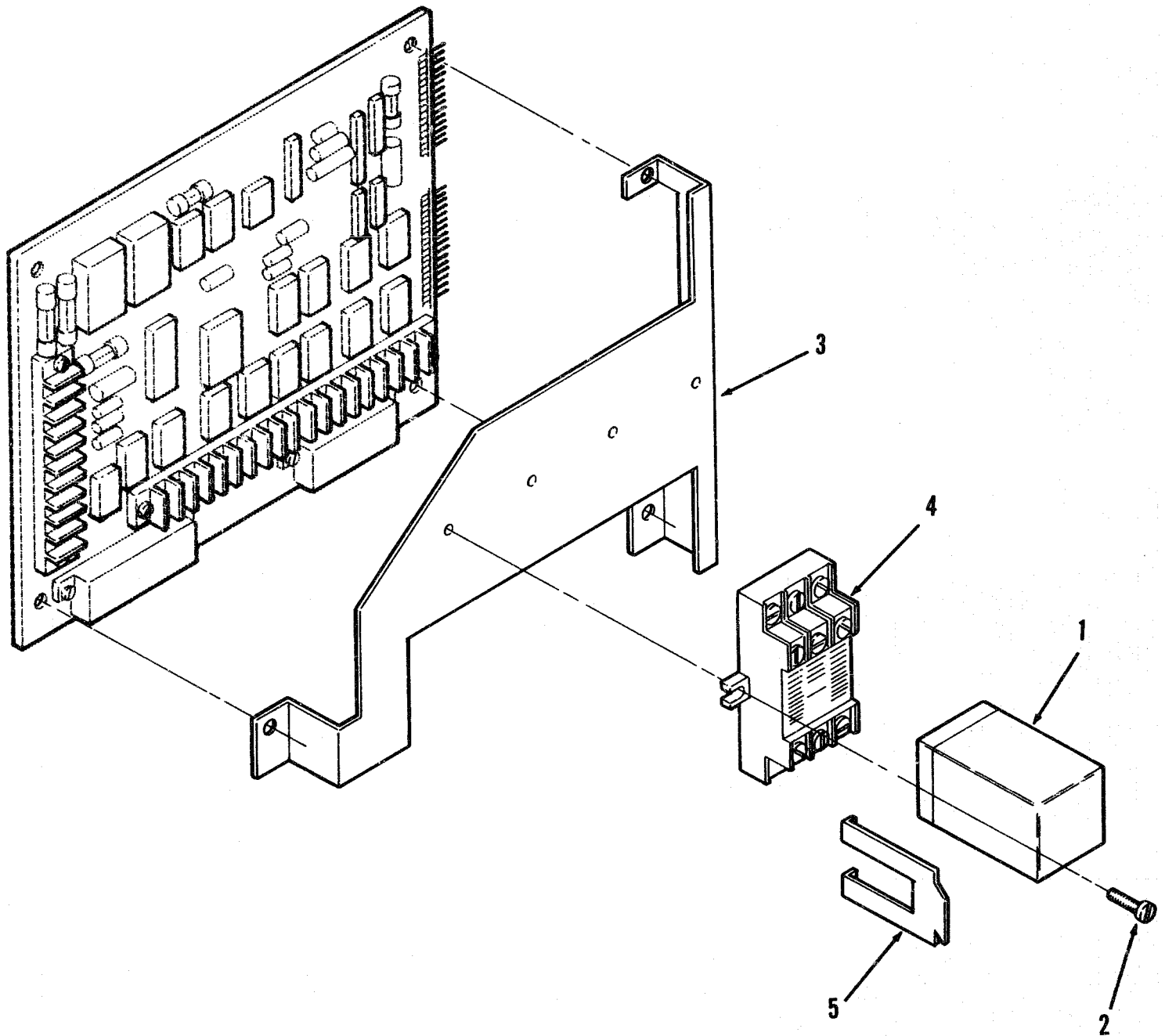
Over/Under Frequency Relay



1012A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Relay, Frequency - Over/Under (A18)	8	821-0017	2	Screw, Locking - Hex Washer Head (5/16-18 x 1/2")
	307-2553	1	50 Hertz Sets	9	850-0045	2	Washer, Lock - Spring (5/16")
	307-2709	1	60 Hertz Sets	10	862-0014	2	Nut, Hex (5/16-18)
2			Harness, Wiring - Over/Under Frequency	11			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		812-0082	4	With K17 Time Delay Relay
3			Plate, Mounting	12	322-0384-10	1	Light, Indicator - Marked "O/U FREQ"
	301-9941	1	Without K17 Time Delay Relay	13	307-1911	1	Relay, Time Delay (.1 to 10 Seconds) (K17) (Not used on all models)
	301-9933	1	With K17 Time Delay Relay	14	323-0804	1	Socket, Relay (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			Nut, Hex (#8-32)				
	860-0008	10	Without K17 Time Delay Relay				
	860-0008	12	With K17 Time Delay Relay				

Run Relay



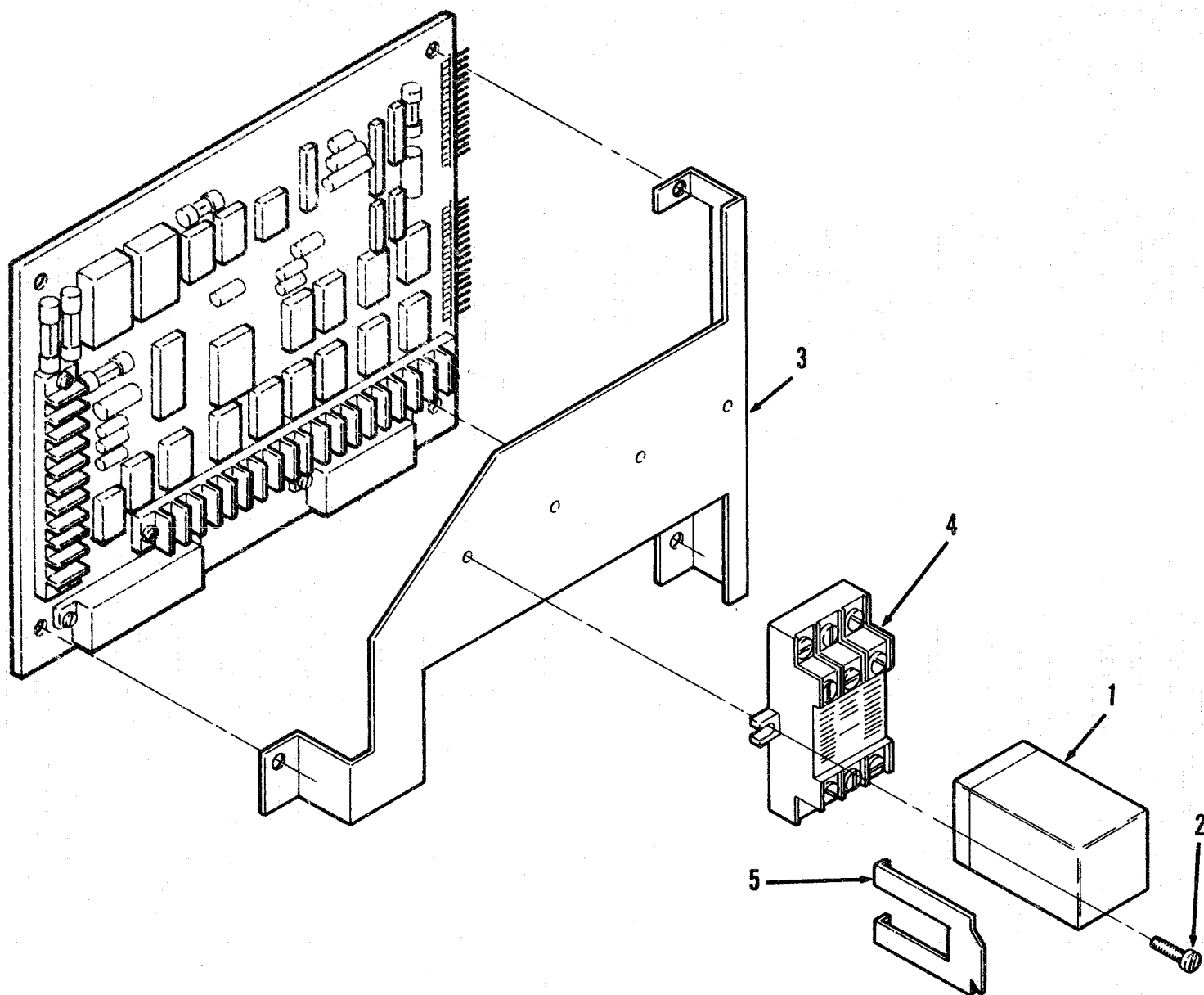
577B

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

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	323-0804	1	*Socket, Relay
5	307-1987	2	*Holddown, Relay

* - Quantities listed are for one mounted relay.

Common Alarm Relay

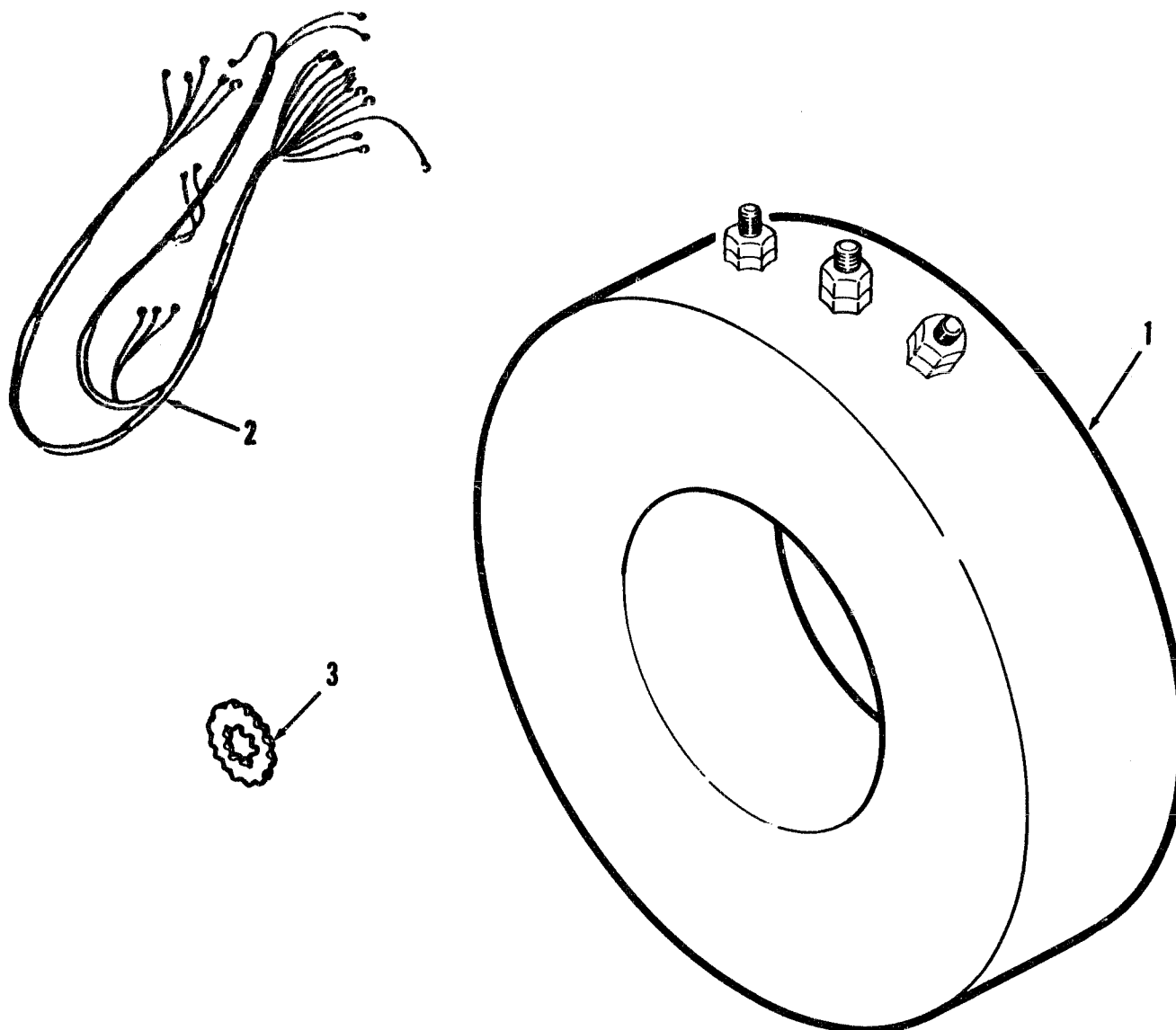


577B

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")

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

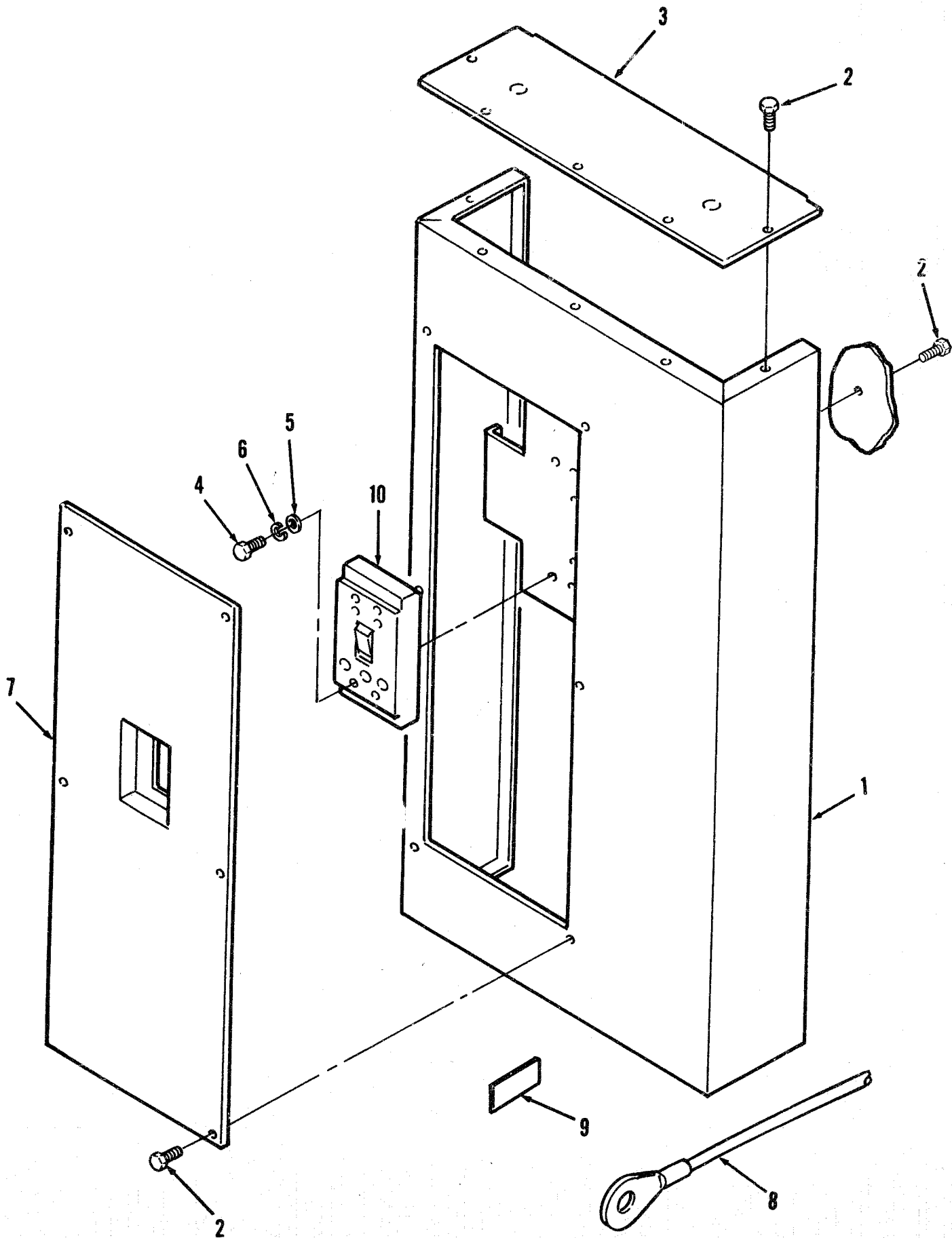
Current Transformer



882A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT21, CT22, CT23)
	302-1794-07	3	Ratio 375/5
	302-1794-08	3	Ratio 400/5
	302-1794-09	3	Ratio 500/5
	302-1794-10	3	Ratio 600/5
	302-1794-11	3	Ratio 750/5
2	338-1980	1	Harness, Wiring - Current Transformer
3	856-0008	2	Washer, Locking - EIT (5/16") (Grounding Wires)

Circuit Breaker
(UL Approved)

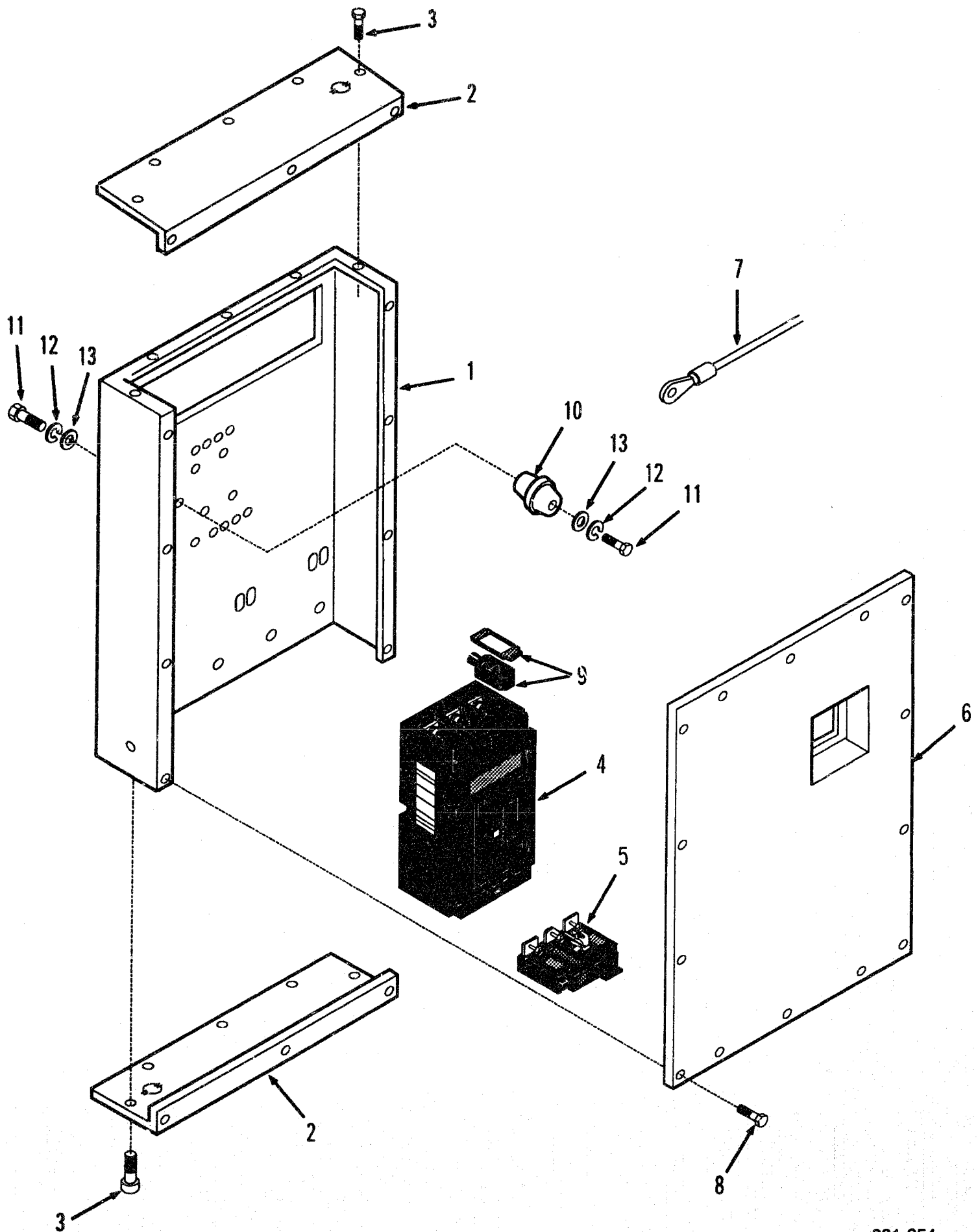


Circuit Breaker (UL Approved)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9654	1	Box, Breaker - Circuit				With Shunt Trip
2	821-0010	22	Screw, Locking - Hex Washer Head (1/4-20 x 1/2")	320-1471-09	1		200 Amp
3	301-9653	2	Panel, Box	320-1471-10	1		225 Amp
4			Screw - Breaker Mounting	320-1472-06	1		250 Amp
	812-0157	4	Machine - Round Head (1/4-20 x 1-3/4")	320-1472-07	1		300 Amp
	812-0094	4	Machine - Round Head (#8-32 x 3-1/2")	320-1472-08	1		350 Amp
	800-0031	4	Cap - Hex Head (5/16-18 x 1-1/2")	320-1472-09	1		400 Amp
5			Washer, Flat - Breaker Mounting	320-1472-10	1	*	450 Amp
	526-0108	4	1/4"	320-1472-11	1	*	500 Amp
	526-0048	4	#8	320-1472-12	1	*	600 Amp
	526-0115	4	5/16"	320-1473-07	1	*	700 Amp
6			Washer, Lock - Spring - Breaker Mounting	320-1473-08	1	*	800 Amp
	850-0040	4	1/4"	320-1473-09	1	*	1000 Amp
	850-0025	4	#8	320-1473-10	1	*	1200 Amp
	850-0045	4	5/16"				With Auxiliary Contacts and Shunt Trip
7			Cover, Box	320-1491-09	1		200 Amp
	301-9652	1	1-1/4" x 3" Circuit Breaker Opening	320-1491-10	1		225 Amp
	319-0767	1	2-7/8" x 3-5/8" Circuit Breaker Opening	320-1492-06	1		250 Amp
	319-1131	1	3-3/8" x 4-1/8" Circuit Breaker Opening	320-1492-07	1		300 Amp
	301-9651	1	3-1/2" x 4-1/4" Circuit Breaker Opening	320-1492-08	1		350 Amp
8			Lead, Breaker - Circuit (Quantity Used as Required)	320-1492-09	1		400 Amp
	226-3371	1	40"	320-1492-10	1	*	450 Amp
	226-3376	1	56"	320-1492-11	1	*	500 Amp
9	91-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers) (Quantity used as required)	320-1492-12	1	*	600 Amp
10			Breaker, Circuit (CB21)	320-1493-07	1	*	700 Amp
			Standard	320-1493-08	1	*	800 Amp
	320-1459-04	1	100 Amp	320-1493-09	1	*	1000 Amp
	320-1459-09	1	200 Amp	320-1493-10	1	*	1200 Amp
	320-1459-10	1	225 Amp				With Bell Alarm Switch
	320-1460-06	1	250 Amp	320-1589-09	1		200 Amp
	320-1460-07	1	300 Amp	320-1589-10	1		225 Amp
	320-1460-08	1	350 Amp	320-1644-06	1		250 Amp
	320-1460-09	1	400 Amp	320-1644-07	1		300 Amp
	320-1460-10	1	* 450 Amp	320-1644-08	1		350 Amp
	320-1460-11	1	* 500 Amp	320-1644-09	1		400 Amp
	320-1460-12	1	* 600 Amp	320-1644-10	1	*	450 Amp
	320-1461-07	1	* 700 Amp	320-1644-11	1	*	500 Amp
	320-1461-08	1	* 800 Amp	320-1644-12	1	*	600 Amp
	320-1461-09	1	* 1000 Amp				With Adjustable Rating
	320-1461-10	1	* 1200 Amp				Plugs and Solid State Trip
			With Auxiliary Contacts	320-1700-13	1		500 Amp
	320-1463-09	1	200 Amp	320-1700-14	1		600 Amp
	320-1463-10	1	225 Amp	320-1700-15	1		700 Amp
	320-1464-06	1	250 Amp	320-1700-16	1		800 Amp
	320-1464-07	1	300 Amp				Solid State Trip With 100% Amp Rating
	320-1464-08	1	350 Amp				600 Amp - With Shunt Trip
	320-1464-09	1	400 Amp				
	320-1464-10	1	* 450 Amp				
	320-1464-11	1	* 500 Amp				
	320-1464-12	1	* 600 Amp				
	320-1465-07	1	* 700 Amp				
	320-1465-08	1	* 800 Amp				
	320-1465-09	1	* 1000 Amp				
	320-1465-10	1	* 1200 Amp				

* - Circuit Breakers with Interchangeable Trip.

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



001-054

Circuit Breaker (Non-UL Approved)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1354	1	Box, Breaker - Circuit	6			Cover, Box
2	319-1355	2	Panel, Box	319-1374	1		Circuit Breaker Frame Size D400
3	821-0010	10	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")	319-1373	1		Circuit Breaker Frame Size D630 and D800
4			Frame - Circuit Breaker (Includes Mounting Hardware)	319-1356	1		Circuit Breaker Frame Size D1250
			Three Pole Breakers	7			Lead - Breaker Circuit (30") (Quantity Used as Required) Marked "LO"
	320-1751-01	1	Frame Size D400 (For 320 and 400 Amp Trips)	226-3505-02	1		Without Markings
	320-1751-13	1	Frame Size D630 (For 500 and 630 Amp Trips)	226-0893	1		
	320-1751-25	1	Frame Size D800 (For 800 Amp Trips)	8	821-0010	14	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")
	320-1751-33	1	Frame Size D1250 (For 1000 and 1250 Amp Trips)	9			Lug Set - Circuit Breaker (Packaged in Sets - Two Lugs Per Set) (Quantity Used as Required)
			Four Pole Breakers	320-1755-03	1		Circuit Breaker Frame Size D400
	320-1751-07	1	Frame Size D400 (For 320 and 400 Amp Trips)	320-1755-04	1		Circuit Breaker Frame Size D630
	320-1751-19	1	Frame Size D630 (For 500 and 630 Amp Trips)	320-1755-05	1		Circuit Breaker Frame Size D800
	320-1751-29	1	Frame Size D800 (For 800 Amp Trips)	320-1755-06	1		Circuit Breaker Frame Size D1250
	320-1751-39	1	Frame Size D1250 (For 1000 and 1250 Amp Trips)	10	332-2744-07	1	*Standoff, Insulator
5			Trip - Circuit Breaker (CB21)	11	800-0050	2	*Screw, Cap - Hex Head (3/8-16 x 1")
			Three Pole Breakers	12	850-0050	2	*Washer, Lock-Spring (3/8")
	320-1751-05	1	320 Amp	13	526-0009	2	*Washer, Flat (7/32")
	320-1751-06	1	400 Amp				
	320-1751-17	1	500 Amp				
	320-1751-18	1	630 Amp				
	320-1751-28	1	800 Amp				
	320-1751-37	1	1000 Amp				
	320-1751-38	1	1250 Amp				
			Four Pole Breakers				
	320-1751-11	1	320 Amp				
	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				

* - Parts used on Three Pole Circuit Breakers

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Numerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
91-0002	71	130-4043	29	191-0688	20	249-0642	38
102-1335	7	130-4079	14	191-0781	20	249-0644	38
128-0117	33	130-4082	14	191-0869	20	249-0741	38
128-0118	33	130-4083	14	191-1588	22	300-2810	45
130-1107	48	140-1545	9	191-1635	20	300-2812	45
130-3180	29	140-1548	8	191-1929	20	300-2856	45
130-3184	29	140-1548	9	191-1977	21	300-2863	45
130-3184	31	140-1973	8	191-1980	21	300-2899	45
130-3188	31	140-2052	9	191-1981	21	300-2900	45
130-3191-06	31	140-2384	8	191-1982	21	300-3464	24
130-3192-12	31	140-2385	8	191-1983-02	21	301-1886	48
130-3193	31	140-2386	9	193-0029	12	301-6257	47
130-3194	31	140-2387	9	193-0128	12	301-6257	56
130-3220	31	140-2388	9	193-0244	7	301-6257	57
130-3224-01	31	140-2389	8	193-0250	47	301-6987	51
130-3310	29	140-2390	9	193-0250	56	301-6987	53
130-3311	29	140-2391	8	193-0299	49	301-6987	65
130-3342	31	140-2392	9	193-0322	17	301-6987	66
130-3343	29	140-2393	9	193-0330	56	301-8065	45
130-3347	31	140-2395	9	193-0351	47	301-8851	45
130-3520	13	140-2519	8	193-0352	47	301-9054-01	46
130-3521-01	31	149-2176	19	193-0353	7	301-9054-02	46
130-3521-02	31	149-2302	19	193-0375	7	301-9054-03	46
130-3522	31	149-2339	11	201-3454	37	301-9054-04	46
130-3523	31	150-0723	39	201-3455	38	301-9055-01	47
130-3524	31	150-0956	39	220-4248	37	301-9055-02	47
130-3526	31	150-2138	39	220-4249	38	301-9510	34
130-3527	31	150-2139	39	226-0893	73	301-9511	34
130-3528	31	150-2213	18	226-3371	71	301-9512	34
130-3529	31	150-2334	19	226-3376	71	301-9629	34
130-3530	31	151-0402	58	226-3505-02	73	301-9651	71
130-3531	31	151-0411	18	226-4390-01	14	301-9652	71
130-3532-01	31	151-0411	19	226-4390-02	14	301-9653	35
130-3532-02	31	151-0637	18	226-4390-03	14	301-9653	71
130-3533	31	155-0658	10	232-3518	37	301-9654	71
130-3534	31	155-1241	10	232-3519	37	301-9655	35
130-3535	31	155-1241	16	232-3526	38	301-9657	61
130-3554	29	155-2062-05	16	232-3527	38	301-9698	35
130-3554	31	155-2159	16	232-3536	62	301-9715	63
130-3555	31	155-2405	16	232-3543	41	301-9933	65
130-3560	29	155-2406	16	232-3544	41	301-9933	66
130-3561	29	155-2407	16	232-3560	41	301-9941	66
130-3562	29	155-2408	16	232-3561	41	301-9993	49
130-3563	29	155-2409	10	234-0883	34	301-9993	53
130-3563	31	159-1208	25	234-0890	38	301-9993	54
130-3564	29	159-1208	27	249-0238	37	302-0885	47
130-3719	14	159-1217	27	249-0239	37	302-1148	46
130-3721	31	159-1218	25	249-0240	37	302-1642	47
130-3749-01	31	159-1218	27	249-0495	38	302-1720	46
130-3749-02	31	159-1311	25	249-0522	37	302-1721-08	51

Numerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
302-1721-09	51	307-2552	65	319-0898	54	320-1473-09	71
302-1721-10	51	307-2553	66	319-1017	43	320-1473-10	71
302-1721-11	51	307-2657	65	319-1131	71	320-1491-09	71
302-1721-12	51	307-2677-02	24	319-1137	63	320-1491-10	71
302-1722	51	307-2705	55	319-1245	62	320-1492-06	71
302-1723	47	307-2706	55	319-1345	34	320-1492-07	71
302-1723	56	307-2709	66	319-1346	34	320-1492-08	71
302-1723	57	307-2737-01	64	319-1354	73	320-1492-09	71
302-1725	46	307-2737-02	64	319-1355	73	320-1492-10	71
302-1726	46	307-2762	14	319-1356	73	320-1492-11	71
302-1727	46	308-0069	61	319-1373	73	320-1492-12	71
302-1728	46	308-0784	47	319-1374	73	320-1493-07	71
302-1729	46	308-0852	24	320-1459-04	71	320-1493-08	71
302-1753	46	308-0853	47	320-1459-09	71	320-1493-09	71
302-1794-07	69	308-0882	46	320-1459-10	71	320-1493-10	71
302-1794-08	69	308-0892	47	320-1460-06	71	320-1589-09	71
302-1794-09	69	308-0912	24	320-1460-07	71	320-1589-10	71
302-1794-10	69	308-0913-01	27	320-1460-08	71	320-1644-06	71
302-1794-11	52	308-0916	27	320-1460-09	71	320-1644-07	71
302-1794-11	69	308-0963-01	11	320-1460-10	71	320-1644-08	71
302-1798	46	309-0128	48	320-1460-11	71	320-1644-09	71
302-1799	46	309-0179	7	320-1460-12	71	320-1644-10	71
302-1833-01	51	309-0180	29	320-1461-07	71	320-1644-11	71
302-1833-03	53	309-0269	7	320-1461-08	71	320-1644-12	71
302-1833-04	51	309-0272	7	320-1461-09	71	320-1653	24
302-1833-05	51	309-0437	7	320-1461-10	71	320-1654	24
302-1845-07	52	309-0561	7	320-1463-09	71	320-1688-01	46
302-1852-01	61	315-0686	24	320-1463-10	71	320-1688-02	46
302-1852-02	61	315-0717	62	320-1464-06	71	320-1700-13	71
302-1873-01	57	319-0030	51	320-1464-07	71	320-1700-14	71
302-1874	49	319-0030	53	320-1464-08	71	320-1700-15	71
302-1883	53	319-0447	67	320-1464-09	71	320-1700-16	71
302-1938	46	319-0447	68	320-1464-10	71	320-1751-01	73
303-0032	46	319-0485	24	320-1464-11	71	320-1751-05	73
303-0261	46	319-0486	24	320-1464-12	71	320-1751-06	73
303-0285	46	319-0489	27	320-1465-07	71	320-1751-07	73
305-0817	60	319-0490	27	320-1465-08	71	320-1751-11	73
305-0818-02	45	319-0652	45	320-1465-09	71	320-1751-12	73
305-0821-02	59	319-0736	34	320-1465-10	71	320-1751-13	73
305-0823	45	319-0737	34	320-1471-09	71	320-1751-17	73
305-0824	45	319-0738	34	320-1471-10	71	320-1751-18	73
305-0836	52	319-0739-01	34	320-1472-06	71	320-1751-19	73
305-0868	45	319-0739-02	34	320-1472-07	71	320-1751-23	73
307-1056	67	319-0740	34	320-1472-08	71	320-1751-24	73
307-1056	68	319-0741	34	320-1472-09	71	320-1751-25	73
307-1911	65	319-0743	34	320-1472-10	71	320-1751-28	73
307-1911	66	319-0745	34	320-1472-11	71	320-1751-29	73
307-1987	67	319-0748	34	320-1472-12	71	320-1751-32	73
307-1987	68	319-0754	45	320-1473-07	71	320-1751-33	73
307-2167	7	319-0767	71	320-1473-08	71	320-1751-37	73

Numerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
320-1751-38	73	331-0531-02	14	338-1980	69	402-0527	45
320-1751-39	73	331-0532	14	338-2030	63	402-0610	25
320-1751-43	73	331-0533	14	338-2123	65	402-0610	27
320-1751-44	73	332-0052	45	338-2124	66	403-2904	23
320-1755-03	73	332-0607	43	338-2172	63	403-3066	23
320-1755-04	73	332-0607	45	338-2181	48	405-3980	33
320-1755-05	73	332-0699	19	338-2277	45	405-4104	33
320-1755-06	73	332-0795	43	338-2278	45	405-4106	33
320-1789	71	332-0970	19	338-2346	65	405-4107	33
321-0094	45	332-1043	45	338-2368	53	405-4108	33
321-0231	45	332-1281	7	338-2382	24	405-4109	33
321-0270	45	332-1292	7	338-2397	24	405-4110	33
322-0017	47	332-1473	23	338-2403	24	405-4111	33
322-0223	47	332-2315	63	338-2404	24	405-4112	33
322-0359-02	47	332-2605	24	338-2409	66	405-4113	33
322-0360-02	47	332-2634	34	338-2436	45	405-4114	33
322-0361	47	332-2723	45	338-2442	24	405-4115	33
322-0363	46	332-2744-07	73	338-2444	18	405-4116	33
322-0369-02	24	332-2879-02	64	338-2444	19	405-4117	33
322-0369-02	47	332-2957	45	338-2446	14	405-4118-01	33
322-0384-09	65	332-3023	41	338-2447	45	405-4118-02	33
322-0384-10	66	332-3024-14	41	338-2455	59	406-0332	45
322-0403-02	24	332-3107	62	338-2478	51	406-0333	45
323-0804	65	333-0133	54	338-2479	51	406-0334	45
323-0804	66	333-0151	48	338-2491	62	406-0626	33
323-0804	67	333-0378	48	338-2529	45	406-0639	33
323-0804	68	333-0382-02	41	338-2538	19	415-0565-05	27
323-1199	43	333-0382-07	41	338-2569	43	415-0566-05	25
323-1200	43	333-0420-01	13	338-2570	43	415-0566-05	27
323-1200	45	333-0438-03	41	338-2571	43	415-0592	27
323-1302	24	333-0438-04	41	338-2590	63	415-0648	25
323-1302	45	333-0438-05	41	338-2621	45	415-0649	25
323-1304	43	333-0438-06	41	338-2756	43	415-0650-01	25
323-1304	45	333-0464	13	338-2760-03	14	415-0651-19	25
323-1306	43	333-0465	13	338-2796	62	415-0652	25
323-1306	45	333-0466	13	350-1222	45	415-0654	25
323-1308	45	333-0468	14	353-0094-01	45	415-0655	25
323-1342	43	333-0512-01	14	357-0013	48	415-0656-21	25
323-1374-04	24	333-0512-02	14	357-0030	45	415-0657-SO	25
330-0004	15	334-0116	58	357-0030	63	415-0660	25
330-0005	15	335-0161	48	357-0093	37	416-0444	22
330-0141-03	41	337-0049	43	370-4003	12	416-0446	22
330-0141-04	41	337-0049	45	399-0117	27	416-0619	22
330-0142	41	337-2402	25	399-0121	27	416-0632	22
331-0010	14	337-2402	27	399-0122	27	416-0850	23
331-0027	14	338-1835	45	402-0354	51	416-0853	23
331-0027	15	338-1836	45	402-0354	53	416-0975-01	23
331-0027	24	338-1904	45	402-0354	65	444-0467	13
331-0042	24	338-1919	17	402-0354	66	501-0084	7
331-0531-01	14	338-1936	51	402-0527	43	501-0084	25

Numerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
501-0084	27	505-0026	8	518-0548-02	29	800-0105	31
501-0216	7	505-0026	11	518-0548-08	7	800-0130	12
501-0537-47	19	505-0039	25	526-0003	24	800-0130	13
501-0548	25	505-0040	7	526-0003	43	800-0130	14
501-0548	27	505-0050	25	526-0008	25	800-0132	9
501-0551	31	505-0050	27	526-0008	45	800-0138	23
502-0034	12	505-0055	27	526-0008	52	800-0183	37
502-0053	31	505-0059	12	526-0008	60	800-0209	29
502-0080	10	505-0098	7	526-0009	73	800-0229	31
502-0080	16	505-0098	8	526-0018	13	800-0230	31
502-0827	31	505-0098	12	526-0030	20	800-0270	7
502-0942	27	505-0098	25	526-0030	21	800-1003	45
502-0943	27	505-0100	7	526-0035	37	800-1502	31
502-0971	13	505-0117	7	526-0048	71	800-2004	38
502-0971	14	505-0120	25	526-0066	7	800-2010	41
503-0183	27	505-0120	27	526-0108	71	800-2013	59
503-0189	31	505-0129	13	526-0112	8	800-2043	37
503-0197	7	505-0129	14	526-0112	9	800-2056	38
503-0200	7	505-0130	31	526-0113	48	800-2056	39
503-0863	8	505-0151	7	526-0115	71	800-2058	21
503-0863	9	505-0172	25	526-0198	23	800-2088	37
503-0881	8	505-0172	27	526-0340	31	800-2088	39
503-0881	9	505-0185	7	526-0341	31	800-2091	37
503-0970	8	505-0248	27	526-0346	29	800-2097	21
503-0970	9	505-0395	25	526-2060	59	800-2111	34
503-0998	31	505-0759	29	526-2080	37	800-2114	34
503-0999	31	505-1050	11	750-1008	21	800-2528	37
503-1137	13	505-1379	23	775-0049	38	800-4074	41
503-1137	14	505-1380	29	800-0006	13	801-0048	7
503-1379-02	31	505-1458-03	11	800-0008	43	801-0119	8
503-1414-01	31	505-1458-04	11	800-0024	43	801-0119	9
503-1467-03	31	505-1458-05	11	800-0024	45	805-0032	37
503-1467-07	31	508-0001	45	800-0026	23	809-0036	7
503-1488	8	508-0015	7	800-0030	20	812-0063	45
503-1488	9	508-0051	34	800-0031	71	812-0065	45
503-1575	10	508-0051	45	800-0034	48	812-0066	43
503-1575	16	508-0228	41	800-0045	43	812-0070	48
503-1660-01	27	508-0292	7	800-0045	45	812-0075	24
503-1675	8	509-0272-02	19	800-0048	23	812-0079	15
503-1675	9	510-0168	37	800-0049	7	812-0082	62
503-1779	13	511-0084	20	800-0049	29	812-0082	65
503-1779	14	511-0092	21	800-0050	29	812-0082	66
504-0005	29	511-0160	31	800-0050	31	812-0084	45
504-0011	7	515-0300-01	37	800-0050	73	812-0084	63
504-0028	31	517-0131	46	800-0052	29	812-0085	62
504-0064	12	517-0131	47	800-0061	31	812-0094	71
505-0003	29	517-0137	56	800-0062	7	812-0157	71
505-0021	7	517-0245	33	800-0073	37	813-0100	14
505-0022	31	518-0018	37	800-0090	22	813-0100	60
505-0026	7	518-0350	17	800-0095	20	813-0100	61

Numerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
813-0100	63	821-0018	27	850-2004	41	864-0011	25
813-0102	51	821-0018	31	850-2005	37	864-0013	31
813-0102	53	821-0018	34	850-2005	38	867-0028	25
813-0103	14	821-0020	29	850-2005	59	870-0053	61
813-0103	18	821-0028	29	850-2006	37	870-0131	15
813-0103	19	821-0029	8	850-2008	21	870-0131	18
813-0103	52	821-0029	9	850-2008	38	870-0131	45
813-0103	64	821-0029	20	850-2008	39	870-0131	52
813-0105	15	821-0029	21	850-2010	37	870-0131	63
813-0108	45	821-0029	29	850-2010	38	870-0131	64
815-0236	27	821-0029	31	850-2010	39	870-0183	47
815-0236	33	821-0029	33	850-2012	34	870-0183	48
815-0350	24	821-0029	34	853-0003	45	870-0183	49
815-0385	24	821-0033	16	853-0013	39	870-0183	53
815-0385	47	822-1050	19	853-0013	45	870-0183	54
815-0385	49	822-3047	41	853-1008	25	870-0196	7
815-0385	53	822-3075	41	854-0006	48	870-0212	14
815-0385	54	850-0025	62	856-0002	51	870-0212	23
815-0388	67	850-0025	71	856-0002	53	870-0212	25
815-0388	68	850-0030	45	856-0002	65	870-0212	25
815-0540	45	850-0030	60	856-0002	66	870-0212	27
815-0544	45	850-0030	61	856-0006	7	870-0212	31
815-0607	33	850-0040	13	856-0006	34	870-0212	34
815-0710	31	850-0040	71	856-0006	43	870-0221	24
815-0711	31	850-0045	20	856-0006	45	870-0221	62
815-0761	38	850-0045	43	856-0008	23	870-0235	33
816-0098	33	850-0045	45	856-0008	43	870-0250	39
819-1102	33	850-0045	51	856-0008	45	870-0257	16
821-0004	45	850-0045	53	856-0008	69	870-0257	23
821-0010	7	850-0045	65	856-0010	7	870-0257	29
821-0010	14	850-0045	66	856-0013	22	870-0257	33
821-0010	18	850-0045	71	860-0006	48	870-0257	34
821-0010	27	850-0050	7	860-0008	51	870-0257	48
821-0010	29	850-0050	29	860-0008	53	870-0257	62
821-0010	34	850-0050	31	860-0008	65	870-0281	8
821-0010	35	850-0050	73	860-0008	66	870-0281	9
821-0010	45	850-0055	31	860-1005	43	870-0281	31
821-0010	71	850-0055	37	860-2005	41	870-0281	33
821-0010	73	850-0060	20	860-2006	37	870-0437	16
821-0014	31	850-0060	22	860-2006	59	870-0458	24
821-0014	33	850-0070	8	862-0001	13	871-0010	60
821-0014	45	850-0070	9	862-0001	39	871-0015	43
821-0016	25	850-0070	12	862-0007	23	871-0015	45
821-0016	27	850-0070	13	862-0013	7	895-0296	29
821-0016	34	850-0070	14	862-0014	51	895-0308	33
821-0016	62	850-0070	23	862-0014	53		
821-0017	51	850-0086	37	862-0014	65		
821-0017	53	850-0103	29	862-0014	66		
821-0017	65	850-0105	31	862-0015	43		
821-0017	66	850-2003	41	862-0016	20		

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:

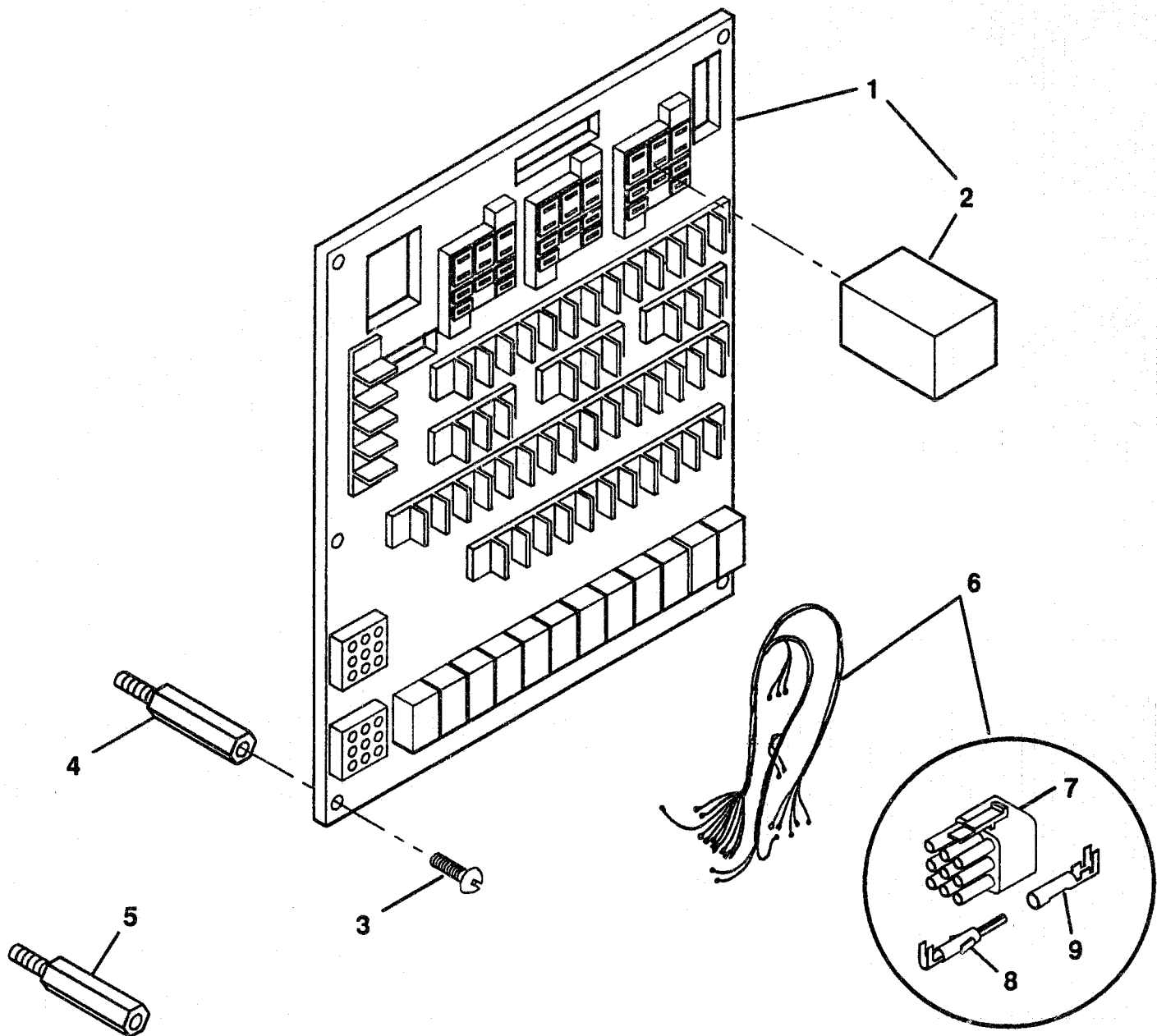
<u>"DF" Series Models</u>	<u>New Spec Advance Letter</u>	<u>Catalog Number</u>
DFAA, DFAB, DFAC	B	960-0260
DFBF, DFCB, DFCC	H	960-0204
DFEB, DFFB	H	960-0240
DFEC	B	960-0240
DFGA, DFGB	B	960-0259
DFJA, DFJB, DFJC	J	960-0263
DFJD	B	960-0263
DFLB, DFLC, DFLD, DFMB	J	960-0264

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.

Alarm Relay Board



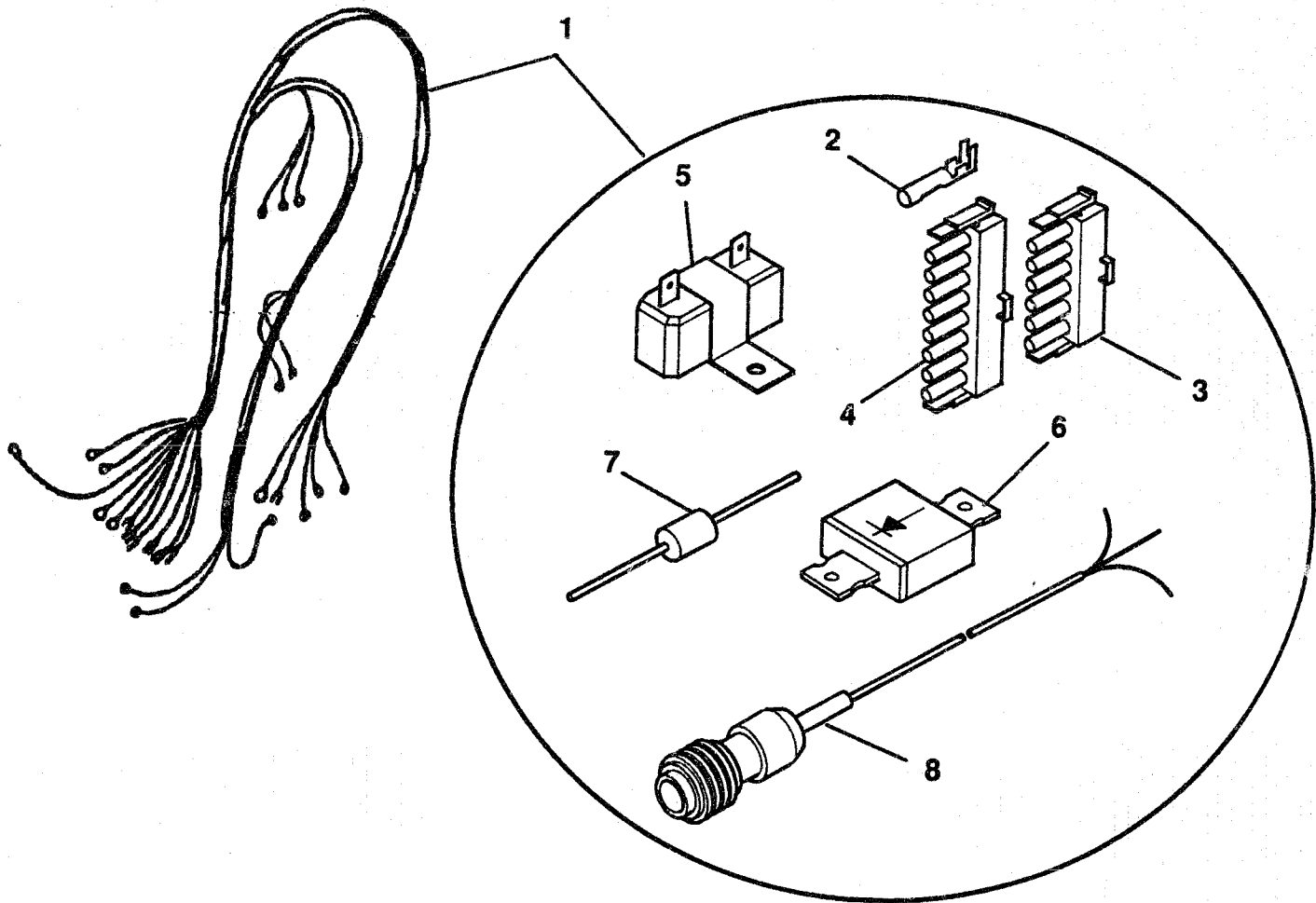
300-4228

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Relay - Alarm (Includes Relay)
	300-4111-02	1	Without Form C Relays
	300-4111-04	1	With Form C Relays
2	307-1056	1	Relay (Quantity Used as Required) (K1,K2,K3)
3	815-0544	6	Screw, Machine - Round Head - Cross Recessed With Internal Tooth (#6-32 x 1/2")
4	870-0517-01	4	Standoff (Clear) (1-7/8")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	870-0517-02	2	Standoff (Yellow) (2")
6	338-2875	1	Harness, Wiring (Includes Parts Marked*) (A11-TB1 and TB2 to Alarm Relay Board)
7	323-1291	2	*Plug - 9 Place (P1,P2)
8	323-1199	9	*Pin, Contact
9	323-1200	8	*Socket, Contact

* - 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)				