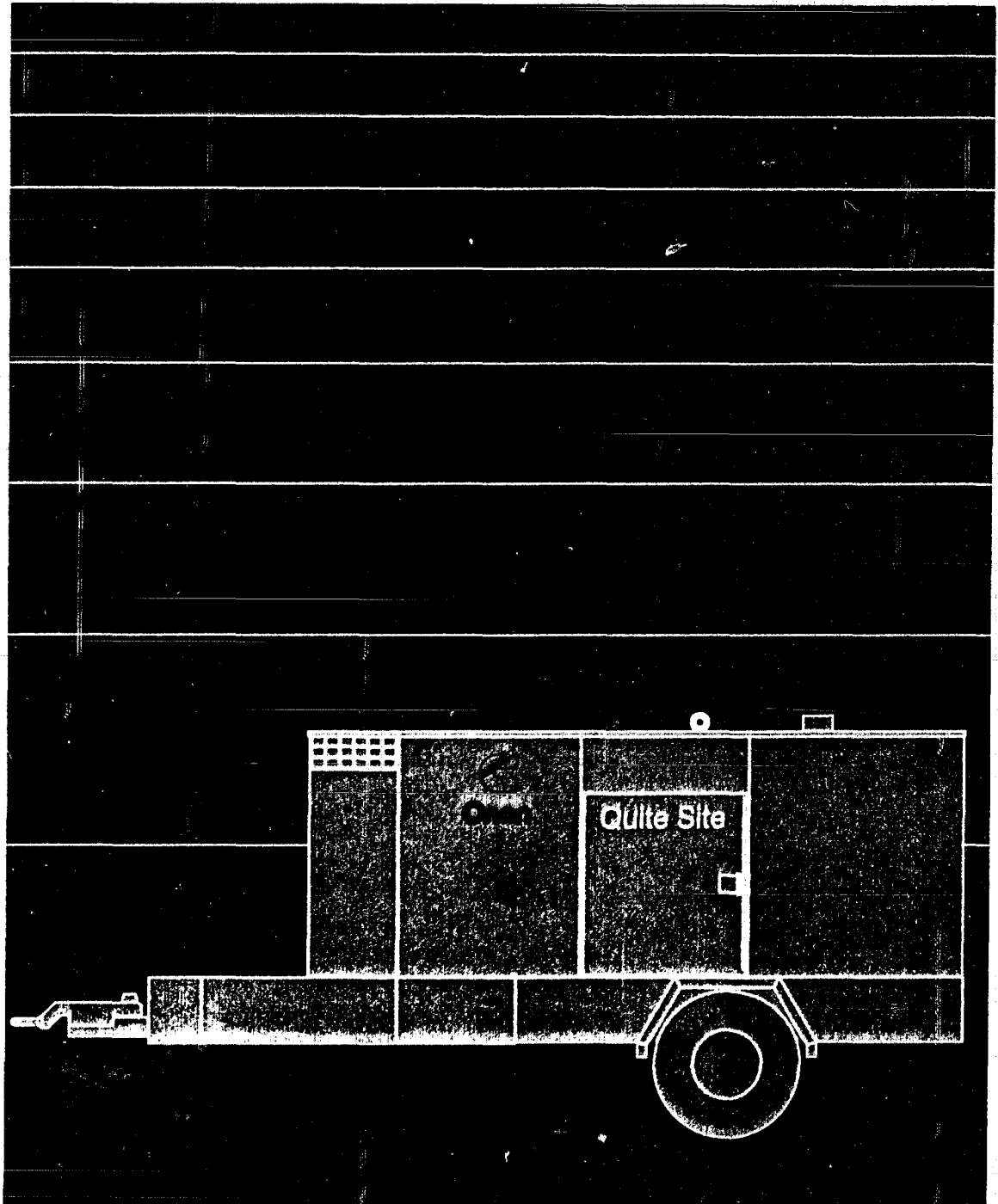




Parts Catalog

QSDA QSEA
QSDB QSFA
GENERATOR SET



Introduction

This catalog applies to the standard QSDA, QSDB, QSEA and QSFA Generator Sets 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 air inlet guard of the housing or engine end (front) of the set.

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 Model</u>	<u>Cummins Model</u>
65QSDA	6BT5.9-G1
80QSDA	6BT5.9-G1
85QSDB	6BT5.9-G2
100QSDB	6BT5.9-G2
100QSEA	6CT8.3-G
125QSEA	6CT8.3-G
135QSFA	6CTA8.3-G
150QSFA	6CTA8.3-G

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	
65QSDA/*	65,000	#	50	12	1 or 3	24 VDC
80QSDA/*	80,000	#	60	12	1 or 3	24 VDC
85QSDB/*	85,000	#	50	12	1 or 3	24 VDC
100QSDB/*	100,000	#	60	12	1 or 3	24 VDC
100QSEA/*	100,000	#	50	12	1 or 3	24 VDC
125QSEA/*	125,000	#	60	12	1 or 3	24 VDC
135QSFA/*	135,000	#	50	12	1 or 3	24 VDC
150QSFA/*	150,000	#	60	12	1 or 3	24 VDC

- * - 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 (B to C, C to D, etc.) with major manufacturing changes.
- # - Broad range reconnectible.

Optional Trailer Service Parts

Service replacement parts can be ordered from the following company:

AL-KO KOBER CORP.
25784 BORG ROAD
ELKHART, INDIANA 46514
TELEPHONE: (219) 264-0631

Index

Actuator, Governor 13,18
 Actuator, Trailer 5
 Adapter, Generator 46,48
 Alarm, Fuel - Low 22
 Alternator 12
 Ammeter, AC 54
 Axle, Trailer 5

 Belt, Fan 30
 Block, Terminal - Heater 51
 Block, Terminal - Generator 46
 Block, Terminal - Control Box 52
 Board, PC - Alarm Relay 52,59
 Board, PC - Day Tank 24
 Board, PC - Time Delay/Start/Stop/Preheat 58
 Board, PC - Voltage Regulator 52
 Box, Control - Day Tank 24
 Box, Control - Generator 45
 Box, Muffler 26
 Bracket, Holddown - Battery 34
 Bracket, Lifting 36
 Bracket, Breaker - Pilot 38
 Bracket, Solenoid 11
 Bracket, Stabilizer 7
 Breaker, Circuit 38,42
 Breaker, Circuit - Day Tank 24
 Bus, Output 38

 Cable, Battery 8,10
 Cable, Electrical 37
 Cap, Radiator 27
 Cap, Rain - Muffler 26
 Channel, Mount - Generator 34
 Cleaner, Air 18,19
 Cone, Inlet - Air 30
 Control, Governor - Electronic 14,16
 Control, Generator 45
 Cover, Control Box - Day Tank 24
 Cover, Exhaust - Muffler 26
 Cover, Spring - Injection Pump 11
 Cover, Stator 46,48

 Deflector, Air 30
 Dial, Wattmeter 62
 Door, Control - AC 54
 Door, Control - DC 55
 Door, Housing 32
 Door, Load Panel - Generator 38
 Duct, Air 34

 Elbow, Cleaner - Air 18,19
 Element, Cleaner - Air 18,19
 Eyebolt 36
 Exciter, Magnet - Permanent 50

 Fan, Air 30
 Fan, Alternator 12
 Foam, Acoustical 30,32
 Frame, Breaker - Circuit 38
 Frame, Output 38

 Gauge, Level - Liquid 20
 Gauge, Pressure - Oil 55
 Gauge, Temperature - Water 55
 Generator 46,48
 Governor, Electronic 14,16
 Guard, Fan 46

 Harness, Wiring - AC Control Door 52
 Harness, Wiring - DC Control Door 53
 Harness, Wiring - Alarm Relay 52,59
 Harness, Wiring - Day Tank 24
 Harness, Wiring - Electronic Overspeed 57

 Harness, Wiring - Engine to Control 52
 Harness, Wiring - Low Coolant Level Sender 28
 Harness, Wiring - Over/Under Frequency 61
 Harness, Wiring - Over/Under Voltage Relay 60
 Harness, Wiring - Permanent Magnet Exciter 50
 Harness, Wiring - Time Delay Start/Stop 58
 Harness, Wiring - Wattmeter 62
 Heater, Control 37
 Heater, Coolant - Engine 29
 Heater, Generator 51
 Hinge, Panel 38
 Hitch, Trailer 5
 Hose, Brake 6
 Hose, Fuel - Day Tank 24
 Hose, Drain - Oil 8,10
 Hose, Radiator 27
 Housing, Inlet - Air 30

 Indicator, Service 18,19
 Insulation, Foam - Control Box 45
 Insulation, Foam - Muffler 26
 Isolator, Vibration - Control Box 52
 Isolator, Vibration - Generator Mount 34

 Knob, Switch - Rotary 54

 Latch, Door 30
 Lever, Pump - Injection 11
 Light, Indicator - DC Control Door 55
 Light, Indicator - Day Tank 24
 Light, Indicator - Over/Under Frequency 61
 Light, Indicator - Over/Under Voltage 60
 Light, Indicator - Upper/Lower Scale 54
 Light, Panel - DC Control Door 55
 Line, Brake 6
 Line, Fuel 8,10
 Lug, Solderless 34

 Meter, Frequency 54
 Meter, Totalizing - Time 55
 Module, Overspeed 57
 Module, Time Delay - Start/Stop 58
 Monitor, Engine 52
 Muffler 26

 Panel, Cover 20
 Panel, Housing 30
 Panel, Load 38
 Panel, Skid 20
 Panel, Support - Radiator 30
 Pipe, Exhaust 26
 Pipe, Suction 20
 Point, Overspeed 46,48
 Potentiometer 54
 Pump, Tank - Day 24

 Radiator 27
 Relay, Alarm 55
 Relay, Frequency - Over/Under 61
 Relay, Pump - Day Tank 24
 Relay, Solenoid - Start 8
 Relay, Time Delay - Over Under Voltage 60
 Relay, Voltage - Over/Under 61

Index

Retainer, Cone 30
Resistor 55
Rod, Lifting 36
Rotor, Exciter - Permanent Magnet 50
Rotor, Generator 46,48

Screw, Jack - Trailer 5
Sender, Coolant Level - Low 28
Sender, Pressure - Oil 8,10
Sender, Temperature - Oil 8,10
Sender, Temperature - Water 8,10
Sensor, Speed 16
Shaft, Fan 30
Sheave, Drive - Fan 30
Sheave, Idler 30
Shield, Heat 8,10,29
Skid 34
Solenoid, Pump - Injection 11
Spring, Pump - Injection 11
Stabilizer 7
Starter 13
Starting Aid, Ether 23
Stator, Exciter - Permanent Magnet 50
Stator, Generator 46,48
Strap, Ground - Control Box 52
Strap, Holddown - Fuel Tank 20
Strip, Marker - Control Box 52
Support, Engine 34
Switch, Float - Day Tank 24
Switch, Alarm - Low Fuel 22
Switch, Pressure - Oil 8,10

Switch, Overspeed 46,48
Switch, Pushbutton - Emergency Stop 5
Switch, Rocker - DC Control Door 55
Switch, Rotary - Voltmeter/Ammeter 54
Switch, Temperature - Low Engine Coolant 8,10
Switch, Thermostat - High Engine Coolant 8,10
Switch, Thermostat - High Engine Coolant 8,10

Tachometer 56
Tank, Fuel 20
Tank, Overflow - Radiator 27
Tensioner 30
Terminal Assembly, (T26) 8,10
Terminal Assembly, Load 38
Thermostat, Heater - Control 37
Tire & Wheel, Trailer 5
Transducer, Current 44
Transducer, Watts 62
Tray, Battery 34
Tube, Supply - Fuel 5
Tube, Radiator 27

Valve, Shutoff - Oil Drain 8,10
Voltmeter, AC 54
Voltmeter, DC 55

Wattmeter 62

C

1944

1945

1946

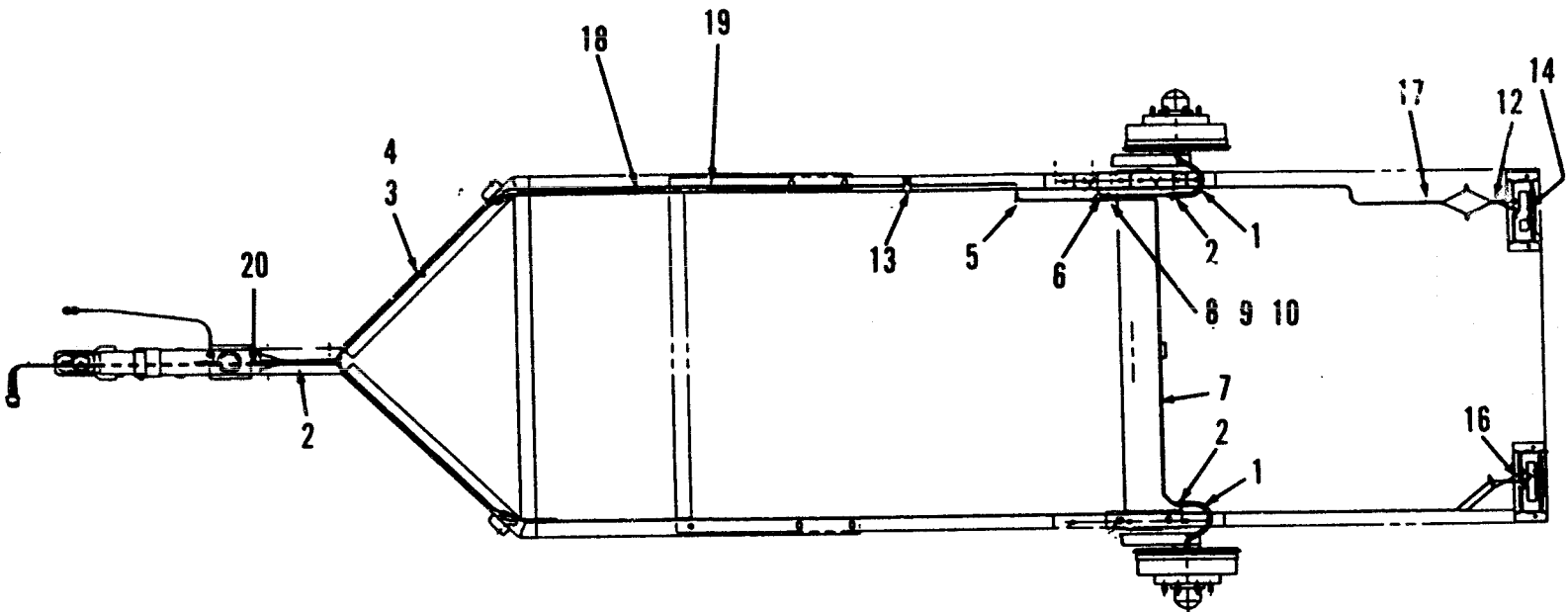
1947



This diagram illustrates the assembly of a mechanical device, likely a small cart or container. The main body is a rectangular frame (14) with a lid (16) and a base (17). The lid is hinged to the frame via a hinge mechanism (1) and a hinge pin (2). The base is supported by a frame (18) and a wheel (21). The frame (18) is connected to the main body (14) via a bracket (19) and a pin (20). The wheel (21) is mounted on a hub (22) and a shaft (23). The shaft (23) is supported by a bearing (24) and a pin (25). The diagram includes numerous numbered callouts (1-25) pointing to specific components and fasteners, such as bolts, nuts, and pins, which are used to assemble the various parts.

5

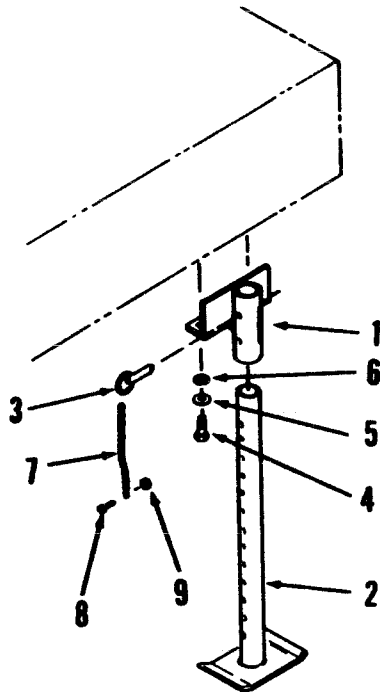
Trailer Brakes & Light



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0582	2	Hose Assembly - Brake
2	410-1063	3	Clip, Brake Line
3	518-0599	11	Clamp, Tube
4	815-0261	4	Screw, Hex Washer Head Thread Form (1/4"-20 x 1/2")
5	121-0100	1	Line, Brake
6	121-0096	1	Line, Brake
7	121-0097	1	Line, Brake
8	410-1064	1	Tee, Brake Line
9	800-0024	1	Screw, Hex Head (5/16"-18 x 1/2")

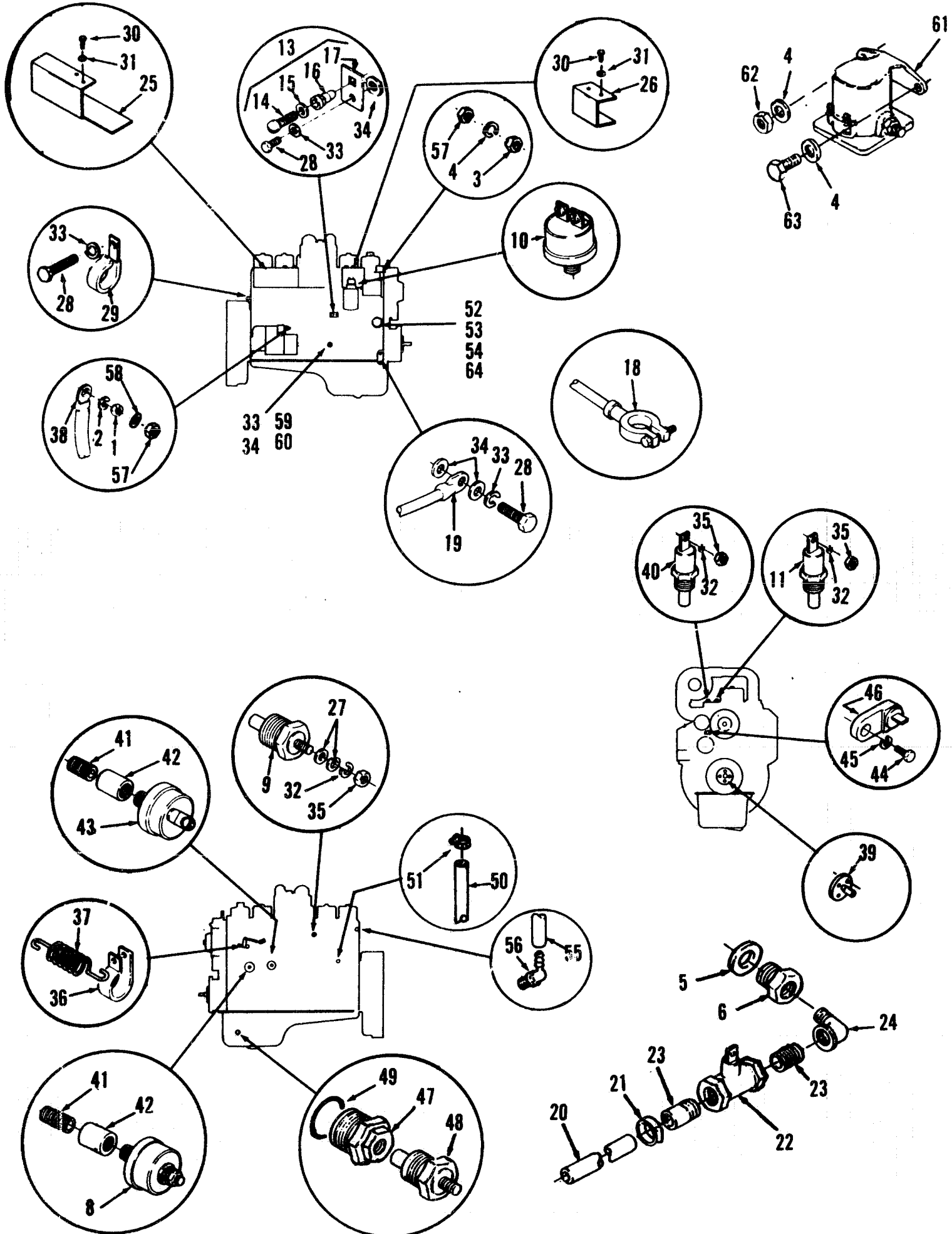
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	850-0045	1	Washer, Lock (5/16")
12	508-0298	6	Grommet 1/4"ID
13	518-0600	1	Clamp, Tube
14	322-0413	1	Kit, Tail Light (Includes Bolts, Nuts, Lockwasher, Clips, & Tap Connectors)
16	856-0006	3	Washer, Lock
17	898-0861	1	Sleeving, Insulation - 6"
18	121-0101	1	Line, Brake
19	502-1194	1	Union, Inverted Flare
20	501-0564	1	Hose Assembly, Brake

Stabilizer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	410-1124	2	Bracket, Stabilizer	6	850-0060	4	Washer, Lock (1/2")
2	410-1125	2	Stabilizer	7	880-0463	2	Chain
3	410-1126	2	Pin, Hitch	8	813-0104	2	Screw, Machine - Round Head (#10-32 x 7/8")
4	800-0091	4	Screw, Cap - Hex Head (1/2-13 x 1-1/4")	9	870-0320	2	Nut, Hex - Self-Lock (#10-32)
5	526-0100	4	Washer, Flat (1/2")				

External Engine Parts (QSDA-QSDB)

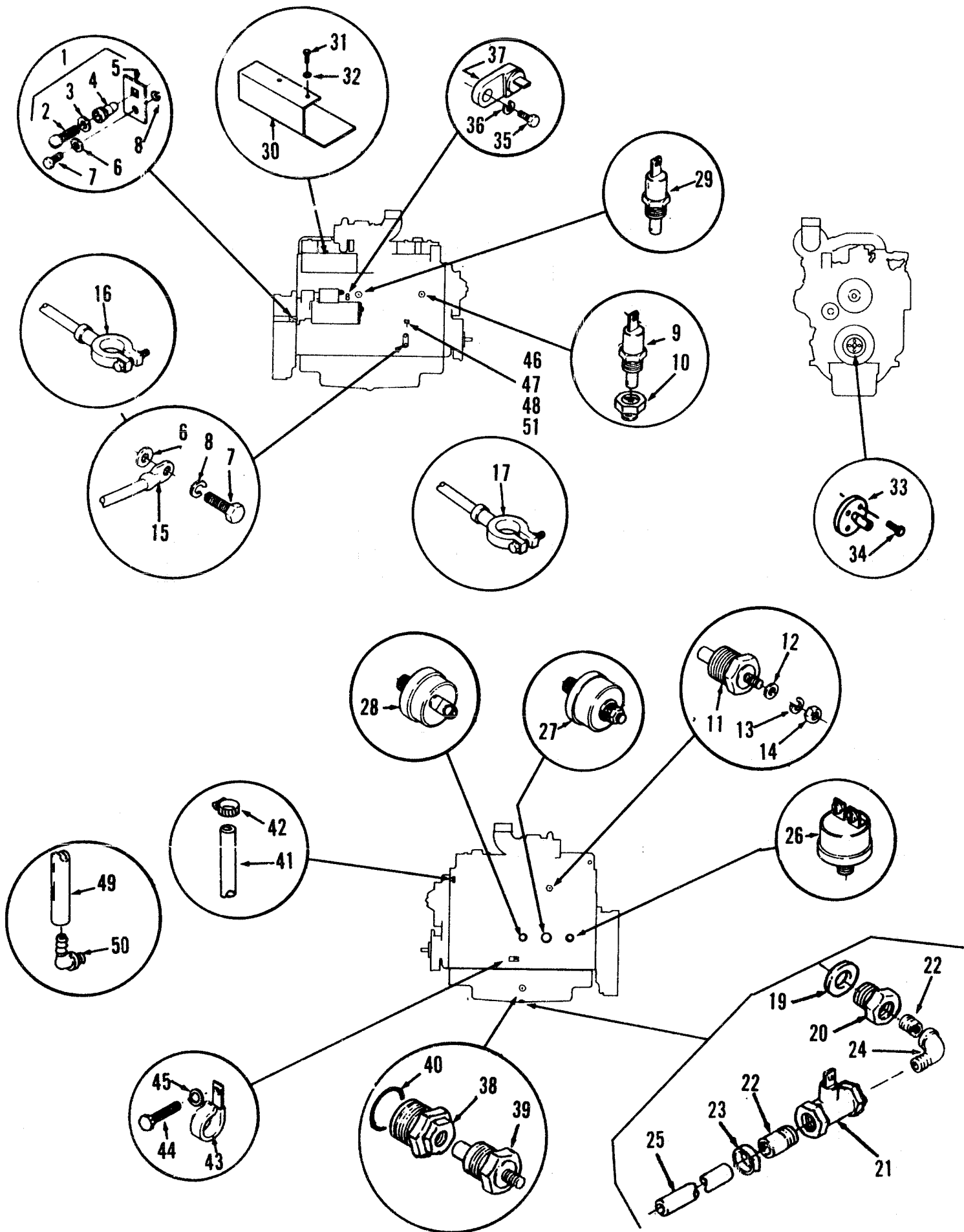


External Engine Parts (QSDA-QSDB)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	850-2010	1	Washer, Lock (M10)	35	870-0010	2	Nut, Hex - BMS (#10-32)
2	860-2009	1	Nut, Hex (M10)	36	518-0350	1	Clamp, Insulated
3	860-2008	1	Nut, Tappet	37	150-2546	1	Spring, Extension
4	850-2008	1	Washer, Lock (1/4")	38	416-0921-01	1	Cable, Battery
5	102-1356	1	Gasket, Oil Drain	39	130-3913	1	Shaft, Pulley
6	102-1237	1	Adapter, Oil Drain (M18 x 1/2" NPTF)	40	309-0553	1	Switch, Thermostat - High Engine Coolant Temperature (Opens @195°F Closes @220°F) (S6 - Pre-Alarm)
8	193-0244	1	Sender, Oil Pressure	41	505-0098	2	Nipple, Close (1/8 x .75)
9	193-0375	1	Sender, Water Temperature	42	505-0026	2	Coupling (1/8")
10	309-0561	1	Switch, Oil Pressure	43	309-0272	1	Switch, Oil Pressure (Closes @20lbs Dec)(S5 Pre-Alarm)
11	309-0554	1	Switch, Thermostat - High Engine Coolant Temperature (Opens @205°F Closes @230°F)	44		1	Screw, Cap - Hex Head (M8 x 25mm)
13	332-2739	1	Terminal Assembly (Includes Parts Marked *)	45	850-2008	1	Washer, Lock (M8)
14	809-0036	1	*Screw, Sheet Metal - Round Head (#8 x 7/8")	46	309-0269	1	Switch, Low Engine Coolant Temperature (S4)
15	508-0015	1	*Washer, Fiber	47	505-0151	1	Bushing, Reducer (M22 x 1/8"NPTF)
16	870-0196	1	*Nut, Insulation	48	193-0353	1	Sender, Temperature - Oil (E4)
17	332-2738	1	*Bracket, Terminal	49		1	Washer, Sealing
18	416-0446	1	Cable, Battery	50	501-0502-04	1	Line, Fuel - Flexible (.19 ID x 24" W/1/8-27NPTF)
19	416-0530	1	Cable, Battery	51	503-0685	1	Clamp, Hose
20	503-0098	1	Hose, Drain (20")	52	503-0276	1	Hose, Drain
21	503-0197	2	Clamp, Hose	53	502-1103	1	Cock, Drain
22	504-0011	1	Valve, Shutoff (1/2")	54	502-0029-03	1	Bushing, Reducer
23	505-0185	2	Nipple, Half (1/2" x 1.50)	55	503-0098	1	Hose
24	505-0050	1	Elbow, Street (1/2")	56	502-1186	1	Elbow, Mase (3/4"x1/2"NPTF)
25	405-4859	1	Shield, Heat	57	860-2006	1	Nut
26	405-4861	1	Shield, Heat	58	850-2005	1	Washer, Lock
27	526-0008	1	Washer, Flat (#10)	59	800-2011	1	Screw, Cap - Hex Head (M12 x 25mm)
28	800-2110	4	Screw, Cap - Hex Head (M12 x 20mm)	60	526-2140	1	Washer, Flat (M12)
29	332-2921	2	Clamp, "J"	61	307-2167	1	Relay, Start Solenoid
30	800-2084	4	Screw, Cap - Hex Head (M10 x 16mm)	62	821-0212	1	Nut, Lock
31	526-0030	4	Washer, Flat (13/32")	63	821-0018	1	Screw, Lock
32	850-0030	2	Washer, Lock (#10-32)	64	503-0731	1	Clamp, Hose
33	850-2012	5	Washer, Lock (M12)				
34	856-0013	3	Washer, Lock - EIT (1/2")				

* Parts included in 332-2739 Terminal Assembly

External Engine Parts (QSEA-QSFA)

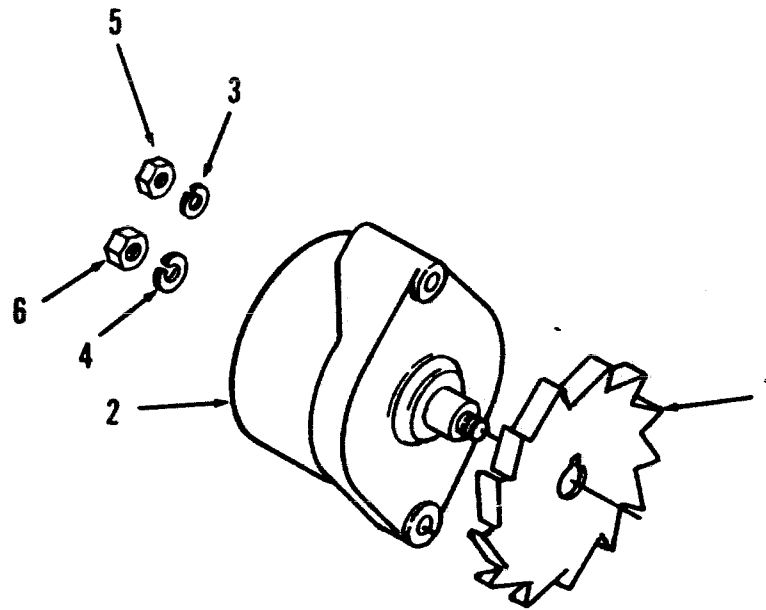


External Engine Parts (QSEA-QSFA)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2739	1	Terminal Assembly (Includes Parts Marked *)	30	405-4858	1	Shield, Heat
2	809-0036	1	*Screw, Sheet Metal - Round Head (#8 x 7/8")	31	800-2084	2	Screw, Cap - Hex Head (M10 x 16mm)
3	508-0015	1	*Washer, Fiber	32	526-0030	2	Washer, Flat (13/32")
4	870-0196	1	*Nut, Insulation	33	130-3900	1	Shaft, Pulley
5	332-2738	1	*Bracket, Terminal	34	815-0794	4	Bolt, Hex - Flange Head
6	856-0013	2	Washer, Lock - EIT (1/2")	35		1	Screw, Cap - Hex Head (M8 x 25mm)
7	800-2110	2	Screw, Cap - Hex Head (M12 x 20mm)	36	850-2008	1	Washer, Lock (M8)
8	850-2012	2	Washer, Lock (M12)	37	309-0269	1	Switch, Low Engine Coolant Temperature (S4)
9	309-0554	1	Switch, Thermostat - High Engine Coolant Temperature (Opens @205°F Closes @230°F)	38	505-0151	1	Bushing, Reducer (M22x1/8NPTF)
10	505-0021	1	Bushing, Reducer (3/4"x1'2")	39	193-0353	1	Sender, Temperature - Oil
11	193-0375	1	Sender, Temperature - Water	40		1	Washer, Sealing
12	526-0008	1	Washer, Flat (#10)	41	501-0480-02	1	Line, Fuel - Flexible (.312ID x 38" W/1/8-27NPTF)
13	850-0030	1	Washer, Lock (#10-32)	42	503-0685	1	Clamp, Hose
14	871-0010	1	Nut, Hex BMS (#10-32)	43	332-2634	1	Clamp, "J"
15	416-0530	1	Cable, Battery	44	800-2085	1	Screw, Cap - Hex Head (M10 x 20mm)
16	416-0921-01	1	Cable, Battery	45	850-2010	1	Washer, Lock
17	416-0446	1	Cable, Battery (12-1/2")	46	503-0276	1	Hose, Drain
19	102-1356	1	Gasket, Oil Drain	47	502-1103	1	Cock, Drain
20	102-1237	1	Adapter, Oil Drain (M12 x 1/2"NPTF)	48	505-0029	1	Bushing, Reducer
21	504-0011	1	Valve, Shutoff (1/2")	49	503-1657	1	Hose (4')
22	505-0185	3	Nipple, Half (1/2"x1.50)	50	502-1185	1	Elbow, Male (5/8"x1/2"NPTF)
23	503-0197	2	Clamp, Hose	51	503-0731	1	Clamp, Hose
24	505-0050	1	Elbow, Street (1/2"x90°)		149-2445	1	Bracket, Solenoid (Not Shown)
25	503-0098	1	Hose, Drain (20")		149-2446	1	QSEA
26	309-0561	1	Switch, Oil Pressure (S1)		149-2447	1	QSFA
27	193-0244	1	Sender, Oil Pressure (E1)		149-2448	1	Solenoid, Pump - Injection (Not Shown)
28	309-0272	1	Switch, Oil Pressure (Closes @20lbs Dec)(S5 - Pre-Alarm)		149-2449	1	Lever, Pump - Injection (Not Shown)
29	309-0553	1	Switch, Thermostat - High Engine Coolant Temperature (Opens @195°F Closes @230°F) (S6 - Pre-Alarm)		149-2450	1	Cover, Spring - Injection Pump (Not Shown)
						1	Spring, Pump - Injection (Not Shown)

* Parts Included in 332-2739 Terminal Assembly

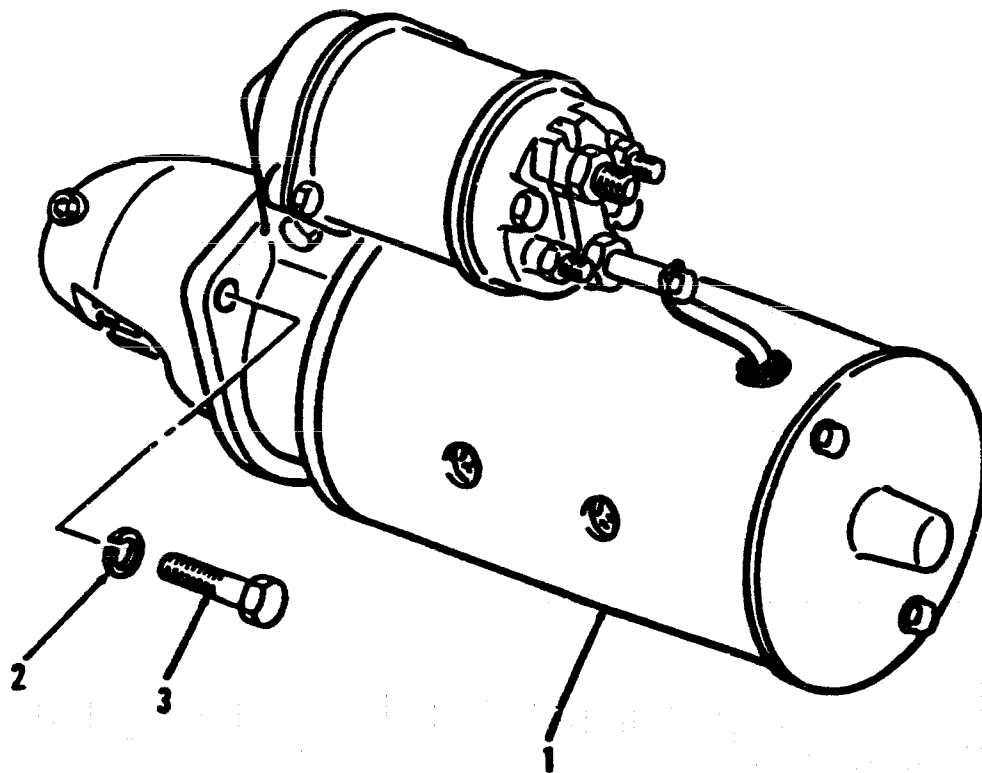
Alternator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-1981	1	Fan, Alternator
2	191-1983-02	1	Alternator (24 VDC-45 Amp)
3	850-2005	2	Washer, Lock (M5)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	850-2008	1	Washer, Lock (M8)
5	860-2006	2	Nut, Hex (M5)
6	860-2008	1	Nut, HMS (M8)

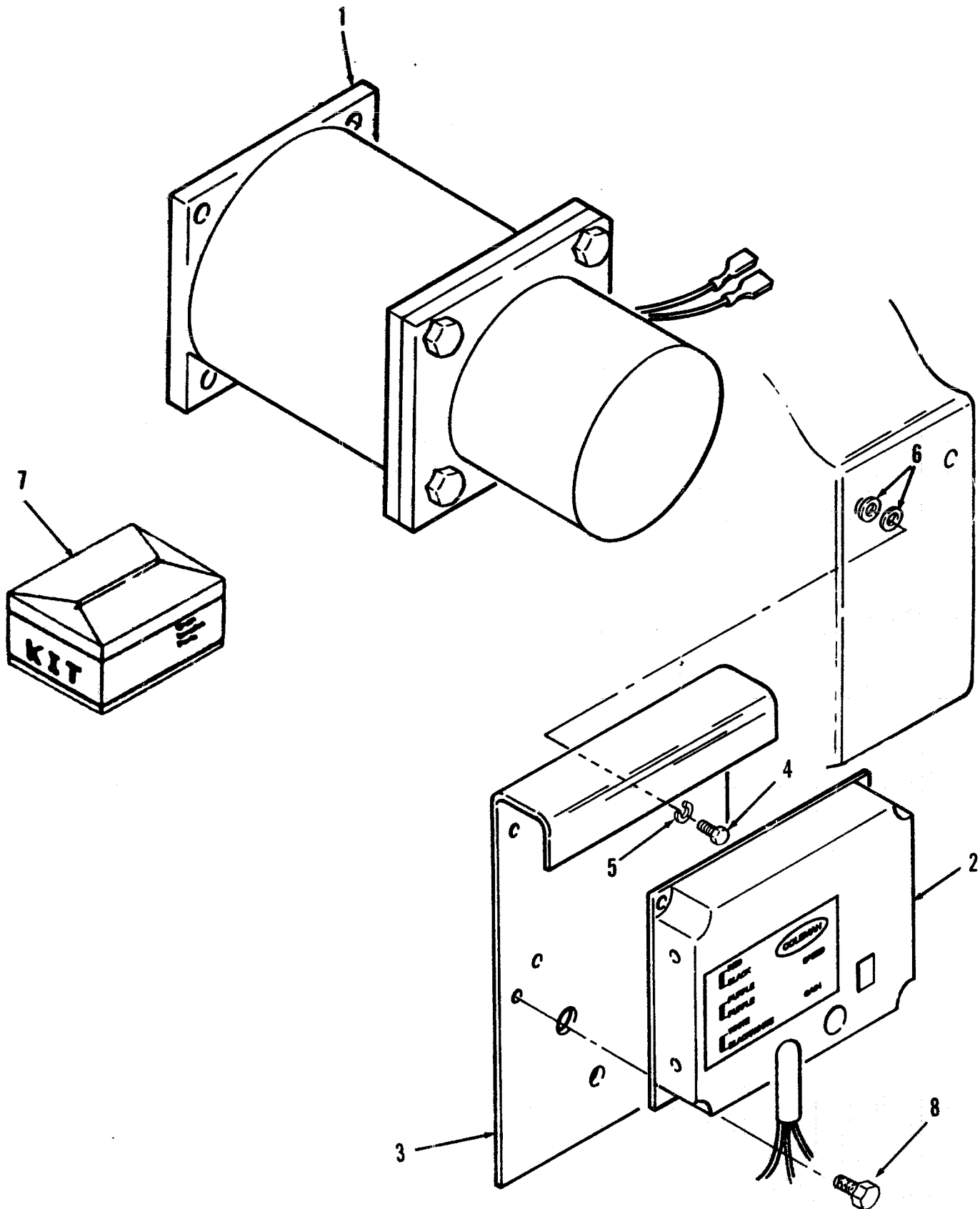
Starter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-2088	3	Screw, Cap - Hex Head (M10 x 35mm)
2	850-2010	3	Washer, Lock - Spring (M10)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3			Starter 24V Negative Ground
	191-2103	1	QSDA, QSOB
	191-2038	1	QSEA, QSFA

Electronic Governor
QSDA, QSDB

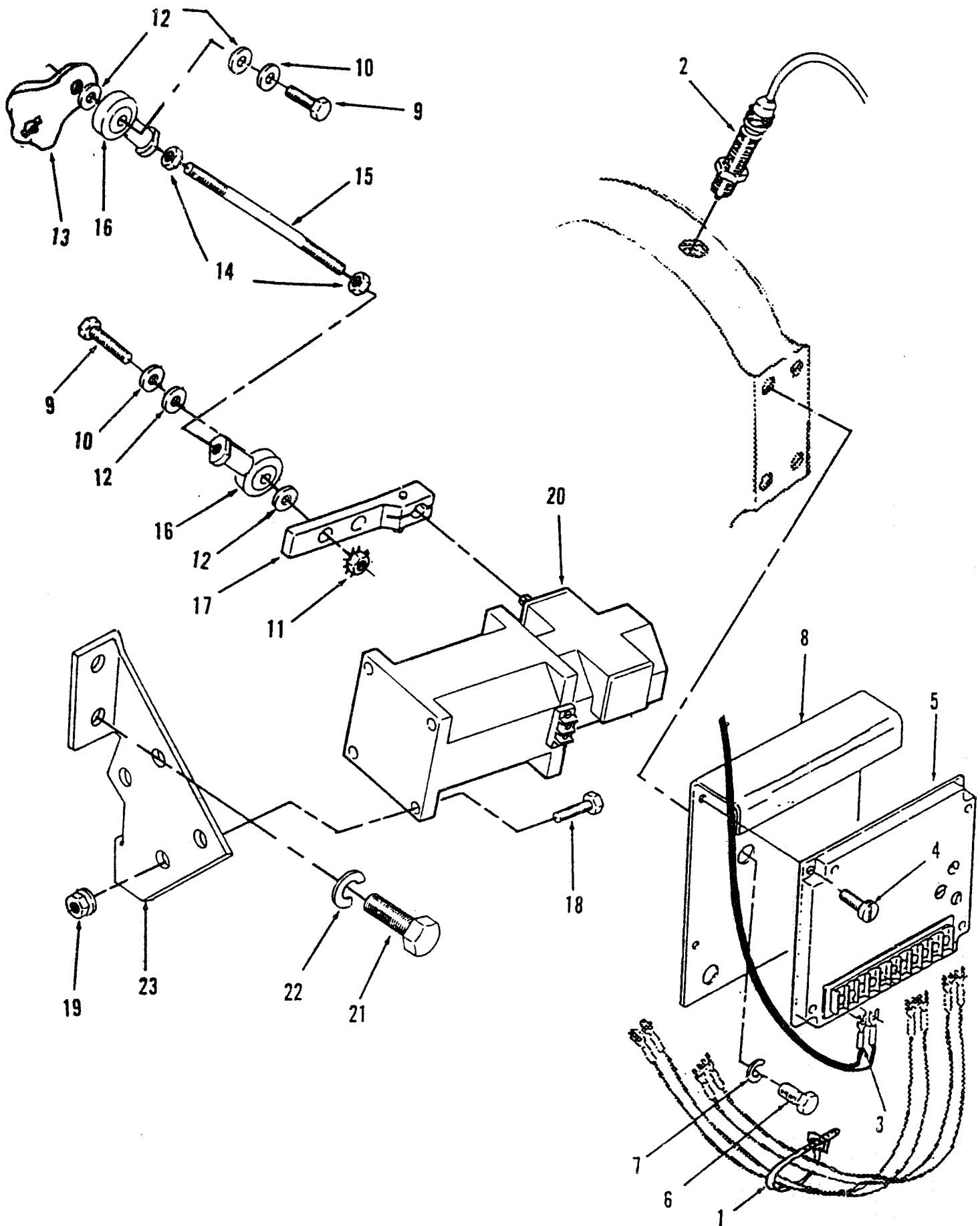


Electronic Governor QSDA, QSDB

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2331-01	1	Actuator, 24 Volt
2	151-0715-02	1	Control, Governor - 24 Volt
3	149-2309	1	Bracket, Controller
4	800-2110	2	Screw, Cap - Hex Head (M12 x 1.75 x 20mm)
5	850-2012	2	Washer, Lock (M12)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	526-2140	2	Washer, Flat
7	150-2578	1	Package, Mounting - Governor (Includes Bracket, Clevis Spring and Lever)
8	821-0005	4	Screw, Cap - Hex Head (#10-32 x .375")

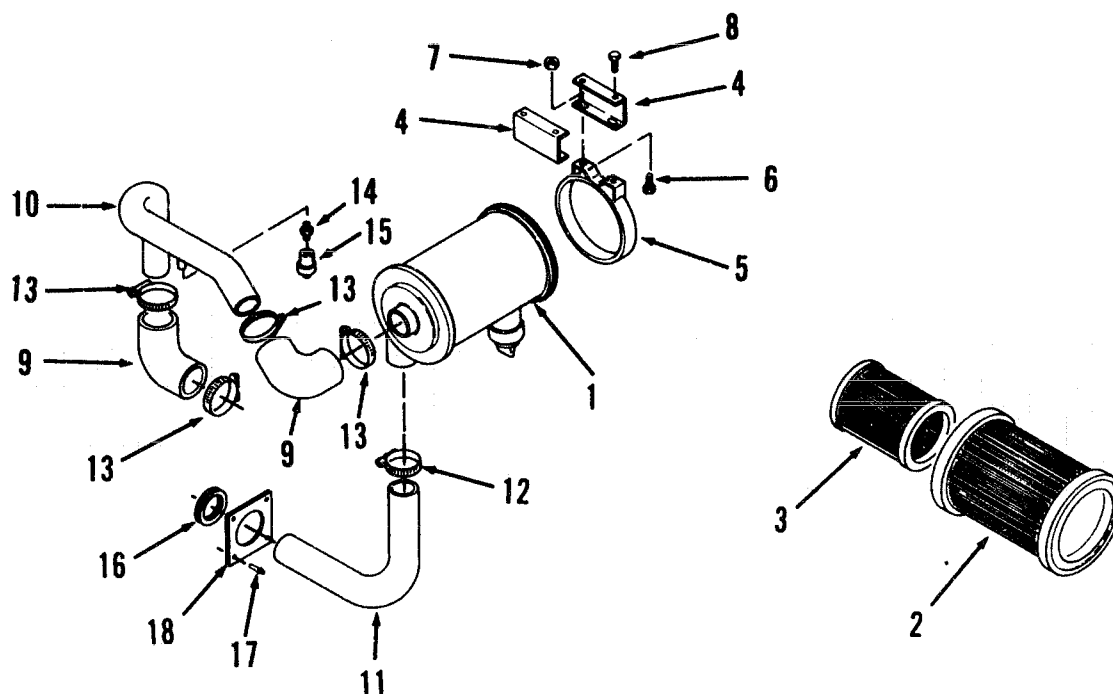
Electronic Governor QSEA, QSFA



**Electronic Governor
QSEA, QSFA**

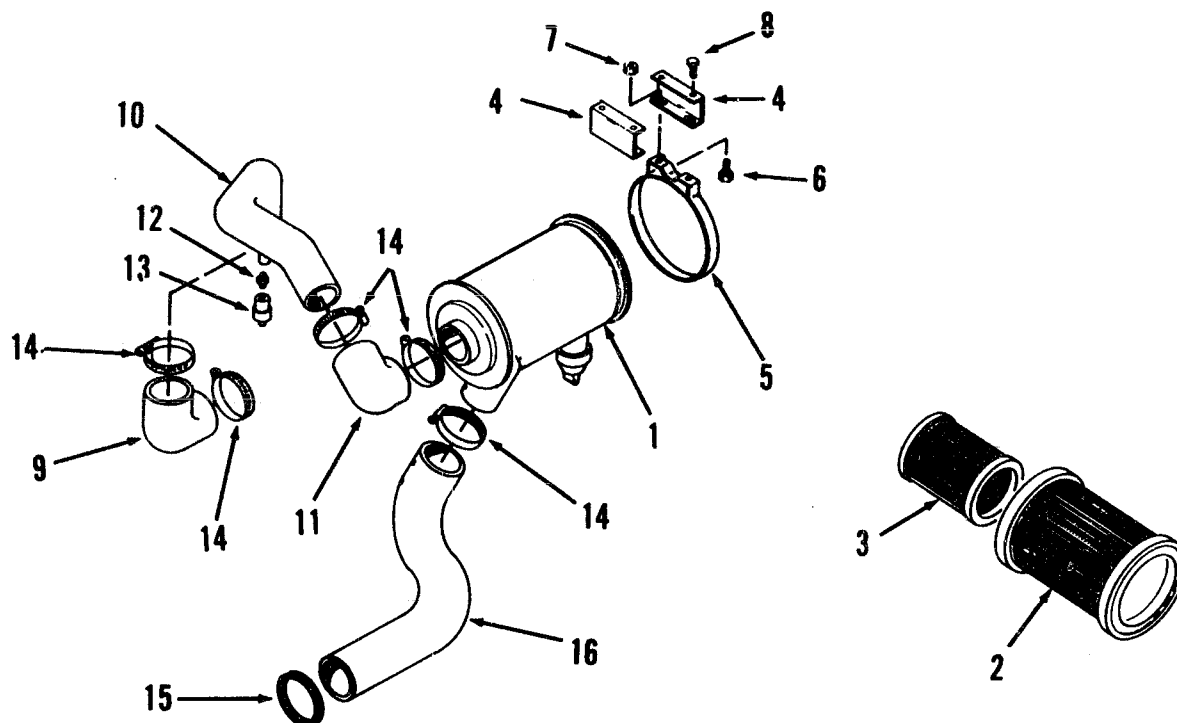
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-1445	5	Tie, Cable	11	870-0131	2	Nut, Hex - W/ET (#10-32)
2	150-2201	1	Sensor, Speed (Includes Electrical Leads. Less Terminals)	12	526-0008	4	Washer, Flat (#10)
3	332-1279	2	Terminal (Use on Electrical Leads)	13	150-2237	1	Lever, Governor
4	813-0103	4	Screw, Machine - Round Head (#10-32 x 3/4")	14	870-0053	2	Nut, Hex (#10-32)
5	151-0611	1	Control, Governor - 24 VDC	15	150-2218-03	1	Rod, Governor
6	800-2110	2	Screw, Cap - Hex Head (M12 x 1.75 x 20mm)	16	150-2251	2	End, Rod
7	850-2012	2	Washer, Lock (M12)	17	150-2203	1	Lever, Actuator - Governor
8	150-2007	1	Bracket, Controller	18	800-0008	4	Screw, Cap - Hex Head (1/4-20 x 1-1/4")
9	815-0172	2	Screw, Machine - Hex Head (#10-32 x 1")	19	870-0212	4	Nut, Lock (1/4-20)
10	526-0179	2	Washer, Flat (1/16")	20	151-0612	1	Actuator, Governor - 24 VDC
				21	800-2085	3	Screw, Cap - Hex Head (M10 x 1.50 x 20mm)
				22	850-2010	3	Washer, Lock (M10)
				23	150-2238	1	Bracket, Actuator - Governor

Air Cleaner (QSDA-QSDB)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2759	1	Cleaner, Air	9	140-1467	2	Elbow, Cleaner - Air
2	140-2148	1	Element, Primary	10	140-2623-01	1	Tube Assembly
3	140-2150	1	Element, Secondary	11	140-2795	1	Hose (3"ID x 3')
4	140-2617-01	2	Bracket, Mtg - Air Cleaner	12	503-1870-05	1	Clamp, Hose
5	140-1599	2	Band, Mounting	13	503-1870-06	4	Clamp, Hose
6	821-0029	4	Screw, Locking - Hex Washer Head (3/8-16 x 3/4")	14	140-1260	1	Fitting, Service Indicator
7	870-0281	4	Nut, Hex - Locking (3/8-16)	15	140-1548	1	Indicator, Service
8	821-0016	4	Screw, Locking - Hex Washer Head (5/16-18 x 3/4")	16	508-0305-02	1	Edging
				17	818-0217-02	4	Rivet
				18	140-2797-01	1	Plate, Cleaner - Air

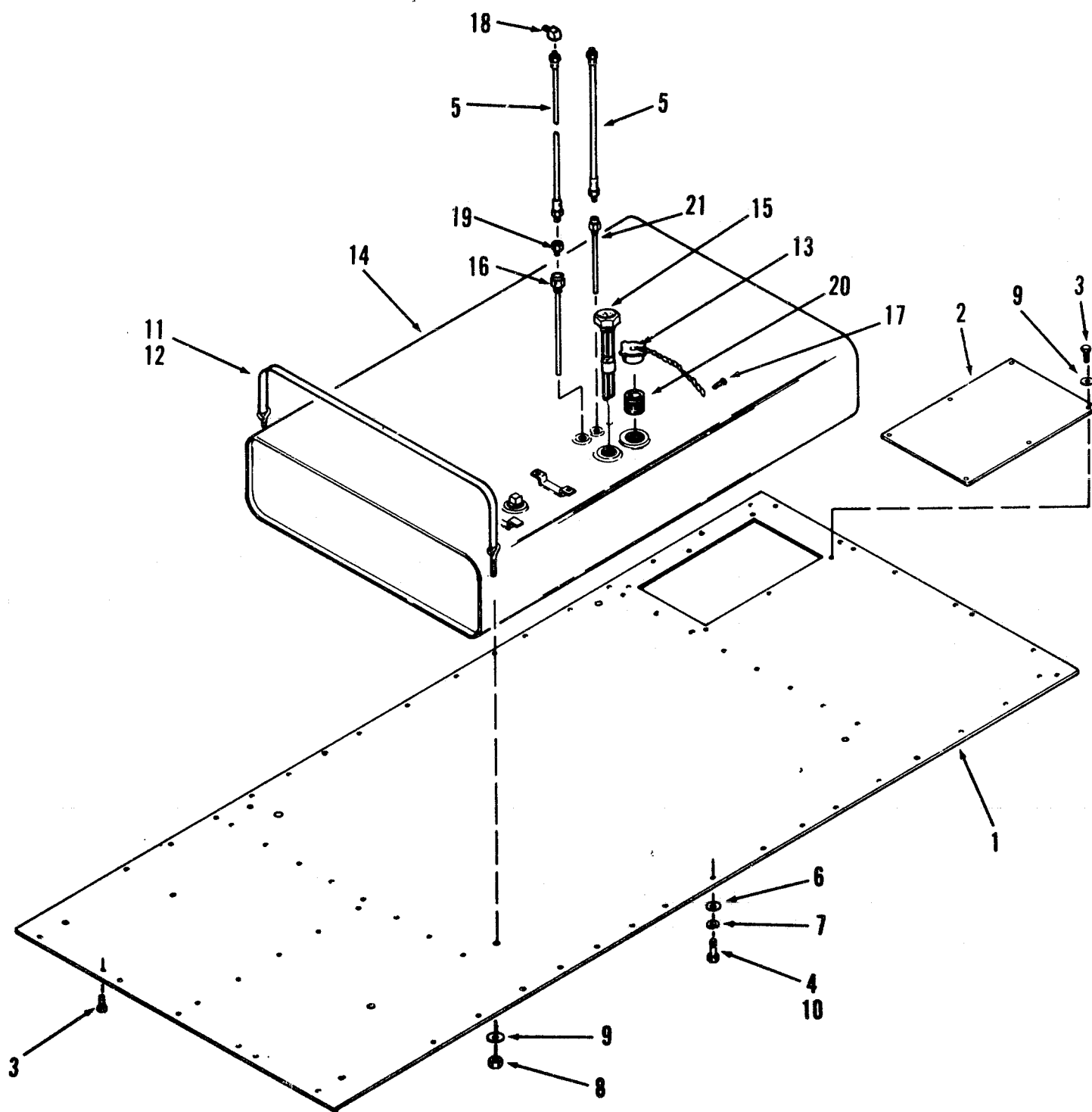
Air Cleaner (QSEA-QSFA)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2760	1	Cleaner, Air
2	140-2241	1	Element, Primary
3	140-2252	1	Element, Secondary
4	140-2617-01	2	Bracket
5	140-1973	2	Band, Mounting
6	821-0029	4	Screw, Locking - Hex Washer Head (3/8-16 x 3/4")
7	870-0281	4	Nut, Locking (3/8-16)
8	821-0016	4	Screw, Locking - Hex Washer Head (5/16-18 x 3/4")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	503-1354	1	Elbow, Molded Rubber
10	140-2618-01	1	Tube Assembly, Air Inlet
11	140-2631	1	Elbow, 90°
12	140-1260	1	Fitting, Service Indicator
13	140-1548	1	Indicator, Service
14	503-1870-08	5	Clamp, Hose
15	508-0305-02	1	Edging
16	140-2796	1	Hose, Air (4.5" ID x 2')

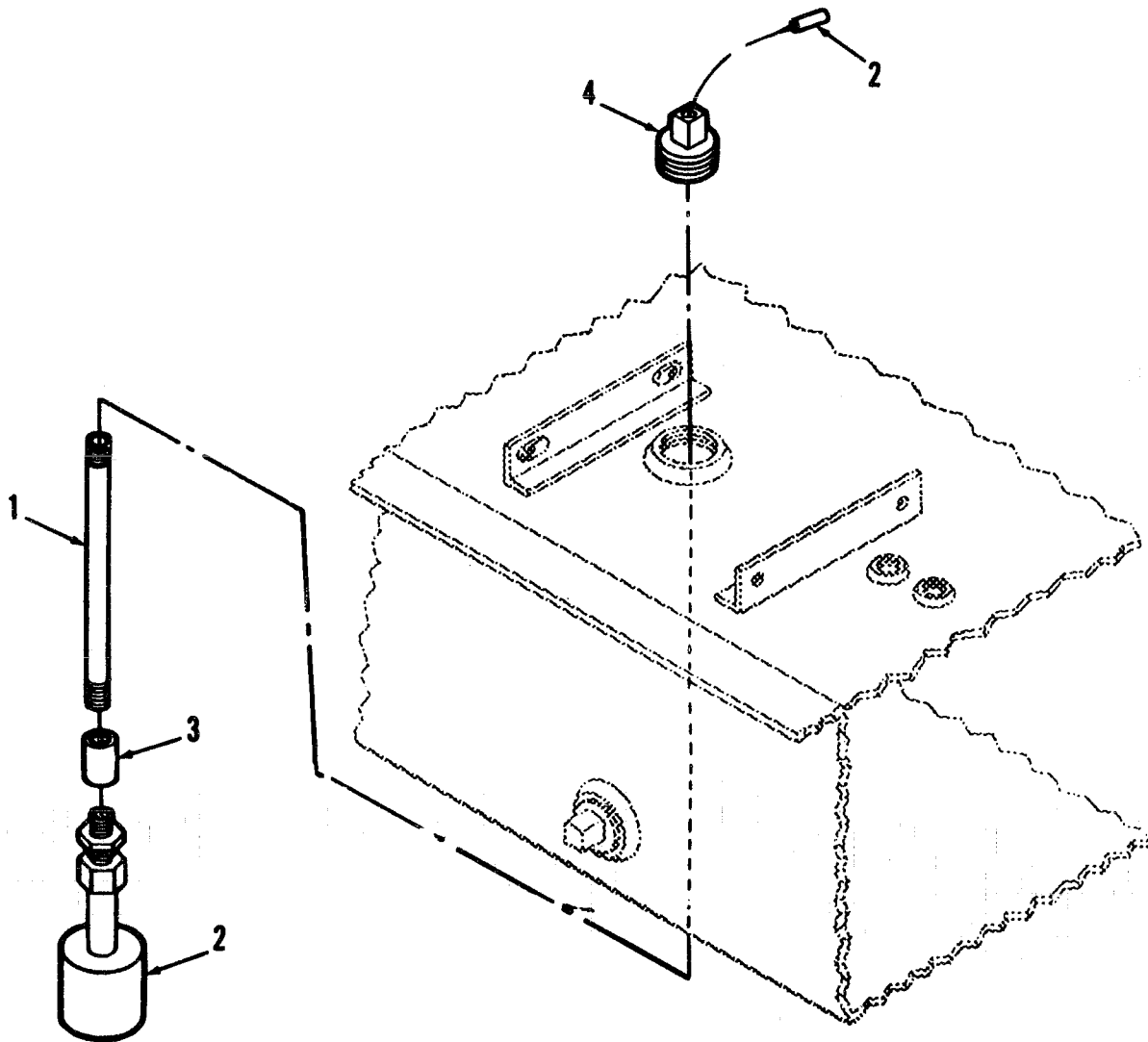
Fuel System



Fuel System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-3179	1	Panel, Skid	14			Tank, Fuel
2	403-3376	1	Panel, Cover		159-1237	1	80 Gal. QSDA, QSDB
3	821-0018	34	Screw, Self-Locking Hex Washer Head (1/4-20 x 5/8")		159-1280	1	90 Gal. QSEA, QSFA
4	800-0092	14	Screw, Cap - Hex Head (1/2"-13 x 1-1/2")	15			Gauge, Liquid Level
5	501-0562-01	1	Line, Fuel - Flexible (.25ID x 24" w/1/4-18NPTF ET Fitting		415-0565-13	1	QSDA, QSDB
6	526-0219	14	Washer, Flat (1/2")		415-0565-09	1	QSEA, QSFA
7	850-0060	14	Washer, Lock (1/2")	16			Pipe, Suction
8	870-0257	4	Nut, Self-Locking - Hex Flange (5/16-18)		415-0566-13	1	QSDA, QSDB
9	526-0219	4	Washer, Flat (1/2")		415-0566-17	1	QSEA, QSFA
10	800-0091	14	Screw, Cap - Hex Head (1/2-13 x 1-1/4")	17	818-0217	1	Rivet
11	159-1283	2	Strap, Hold-down QSDA, QSDB	18	502-0054	1	Elbow, Street - 90° (1/4")
12	159-1259	4	Bolt, Hold-down QSEA, QSFA	19	505-0018	1	Bushing, Reducer (1/2"-1/4")
13	159-1208	1	Cap, Fuel	20	505-0172	1	Nipple, Close (2")
				21	415-0752-02	1	Pipe, Fuel - Suction

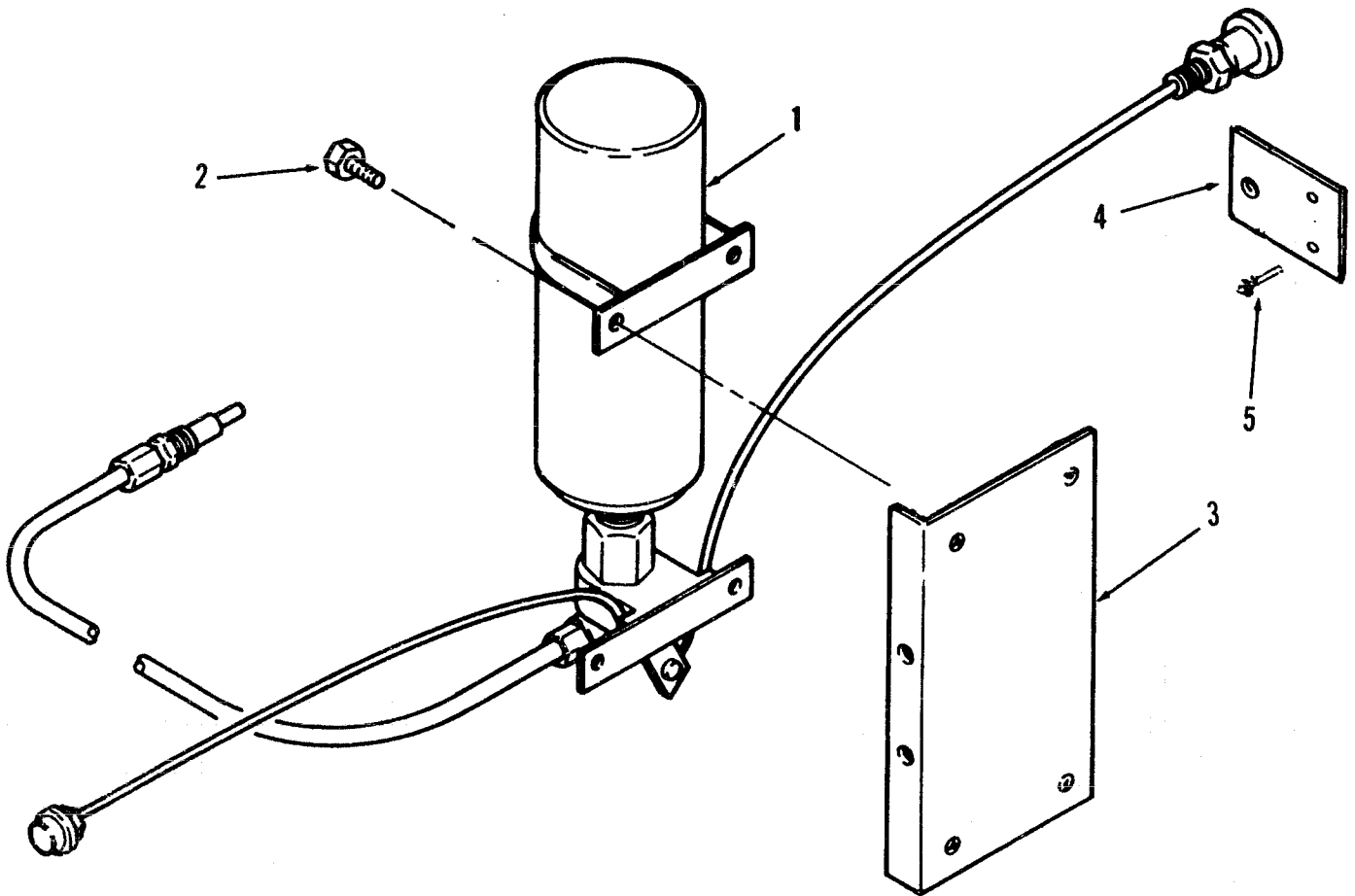
Low Fuel Alarm



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0069	1	Pipe, Nipple (1/8")
2	308-0963-01	1	Switch, Basin
3	505-0026	1	Coupling

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	505-1478	1	Plug, Pipe - Square Head (Use Sealand 524-0109 to Seal Hole Around Wire)

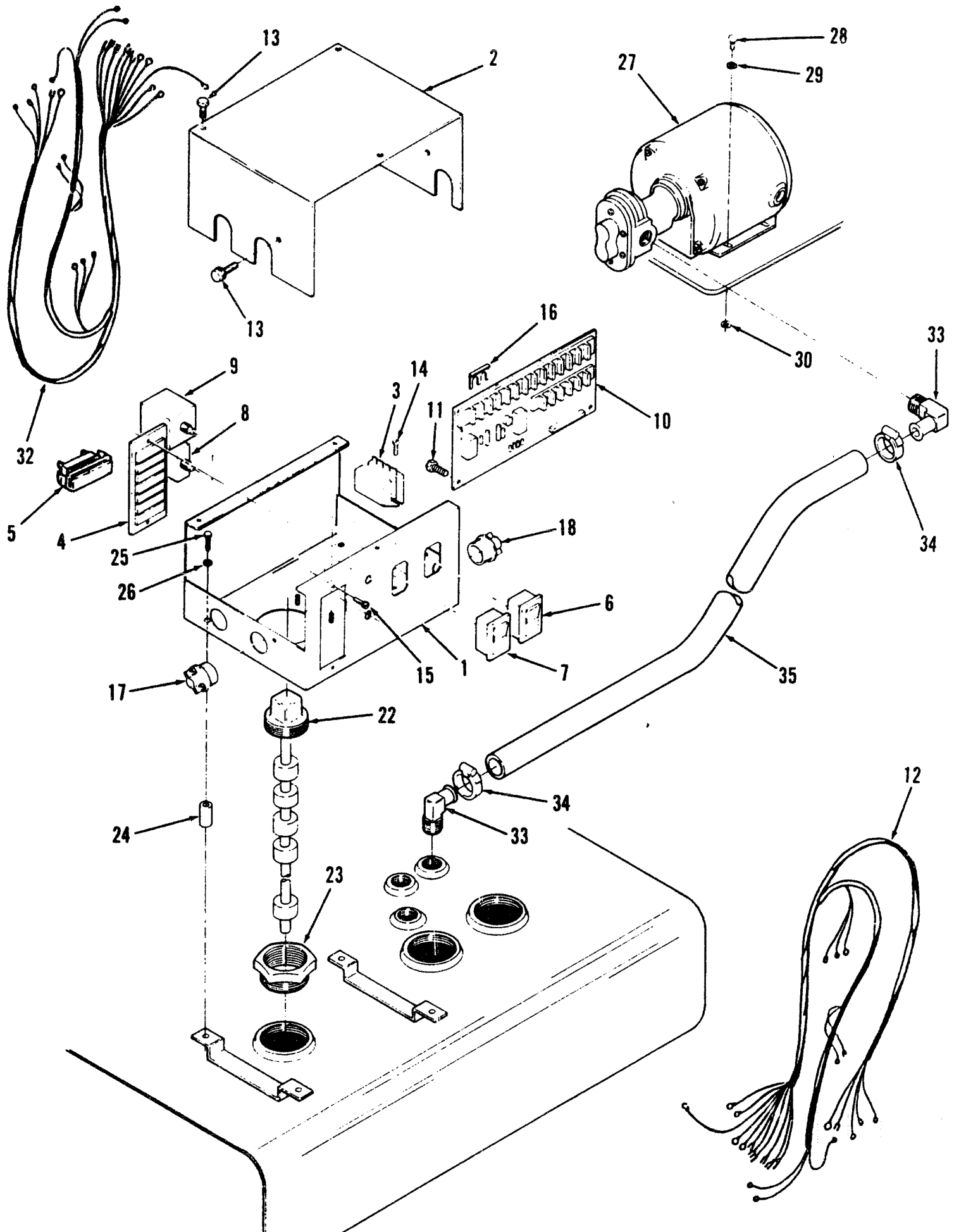
Ether Starting Aid



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	147-0815	1	Starting Aid, Ether
2	821-0018	4	Screw, Locking - Hex Washer Head (1/4"-20)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	140-0840	1	Bracket, Mounting
4	405-4656	1	Bracket, Actuator
5	818-0217-02	2	Rivet

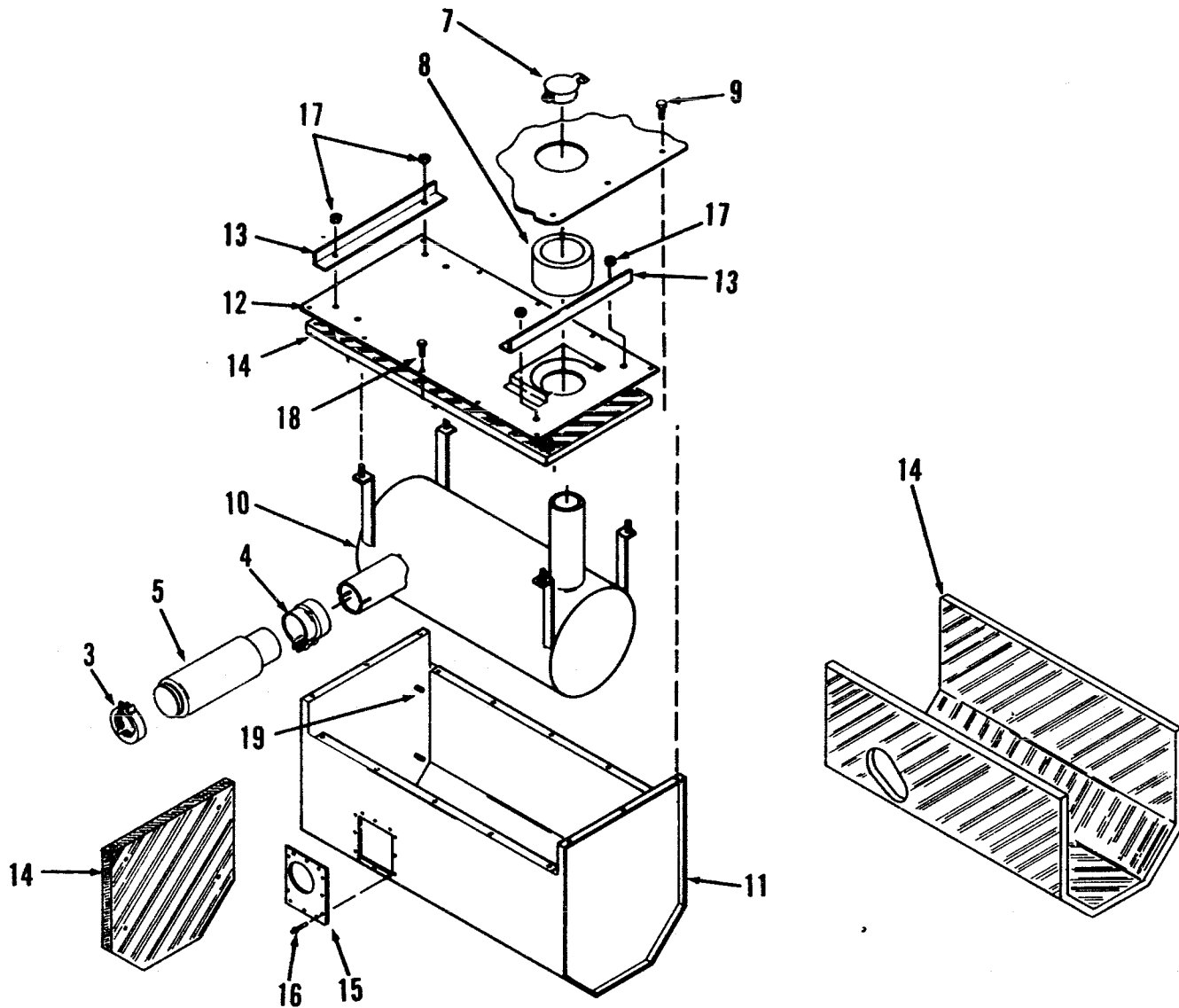
Day Tank



Day Tank

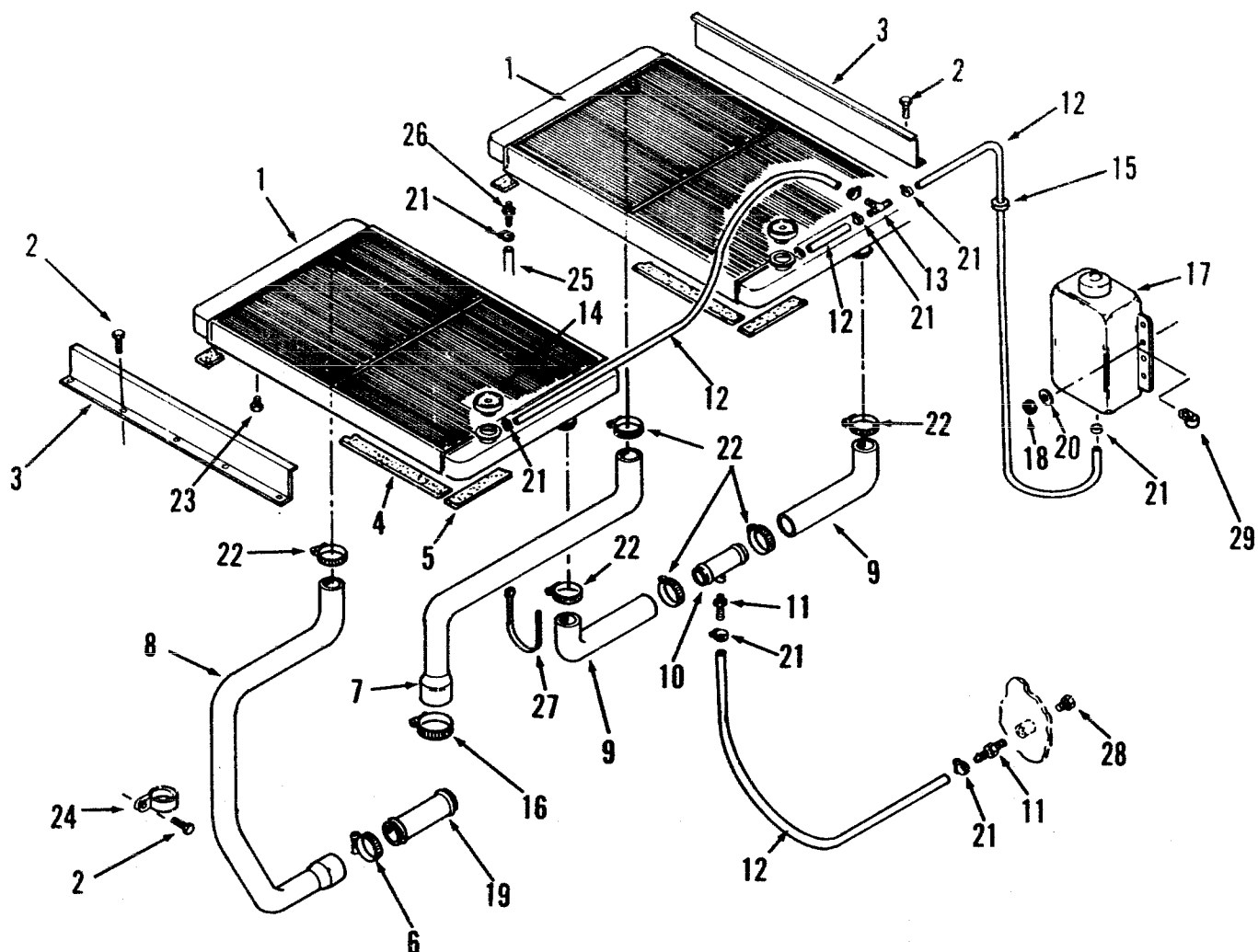
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0486	1	Box, Control	16	332-2605	2	Jumper, Terminal
2	319-0485	1	Cover, Control Box	17	331-0027	2	Connector, Romex
3	307-2677-02	1	Relay - Pump (K130)	18	331-0042	1	Connector, Knockout
4	322-0403-02	1	Light Assembly, Indicator - Seven Light (Includes Wiring Harness)	22	308-0913-08	1	Switch - 5 Float
5	322-0369-02	1	Lamp, Indicator - Replacement	23	505-0025	1	Reducer, Pipe (1-1/2" to 1-1/2")
6	308-0912	1	Switch, Rocker - On/Off/Emergency Run (S102)	24	370-4066	4	Spacer, Control Mounting
7	308-0832	1	Switch, Rocker - Test/Reset (S111)	25	800-0010	4	Screw, Cap - Hex Head (1/4-20 x 1/2")
8	320-1653	1	Breaker, Circuit - DC (CB107)	26	850-0040	4	Washer, Lock - Spring (1/4")
9	320-1654	1	Breaker, Circuit - AC (CB101)	27	399-0117	1	Pump (P103)
10	300-3464	1	Board, Printed Circuit		399-0122		Coupler, Pump
11	870-0458	4	Spacer - Printed Circuit Board		399-0121		Kit, Repair
12	338-2382	1	Harness, Wiring - Control Box	28	800-0026	4	Screw, Cap - Hex Head (5/16-18 x 1")
13	815-0350	5	Screw, Self-Tapping - Slotted Hex Washer Head (#10-32 x 3/8")	29	526-0022	4	Washer, Flat (5/16")
14	812-0075	2	Screw, Machine - Round Head (#8-32 x 1/4")	30	850-0045	4	Washer, Lock - Spring (5/16")
15	815-0385	2	Screw, Machine - Round Head (#6-32 x 1/2")	32	338-2825	1	Harness, Wiring (Pump to Control Box Printed Circuit Board TB1)
				33	502-0942	2	Elbow, Hose - Beaded - 90°
				34	503-0183	2	Clamp, Hose
				35	503-1660-06	1	Hose, Fuel (5/8" ID x 3/4")

Exhaust System



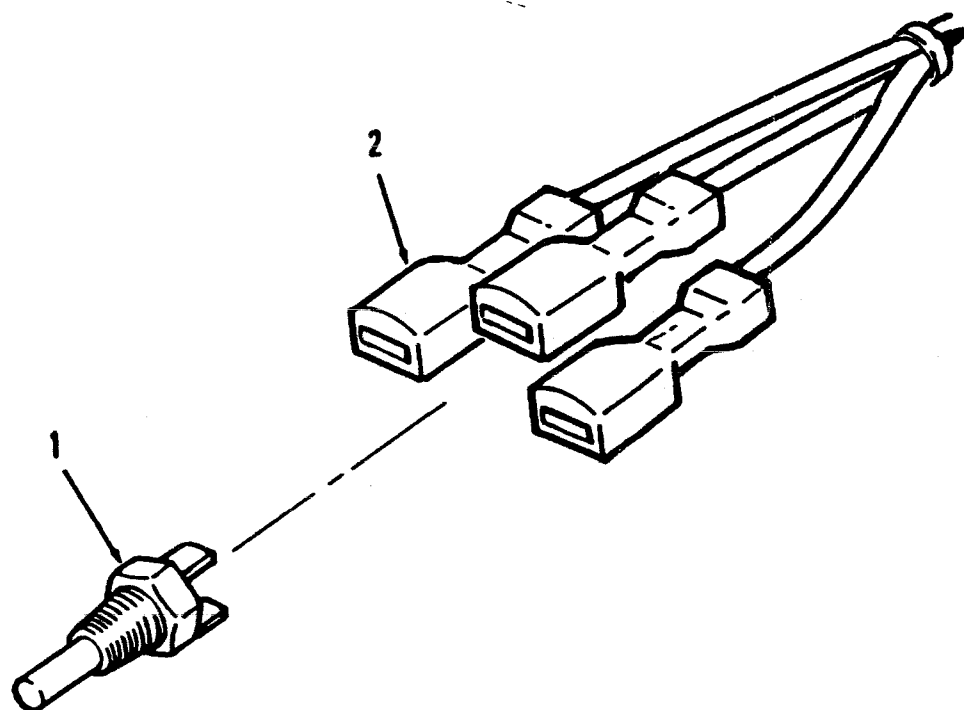
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	155-2565	1	Clamp, "V" Band	11	405-4819	1	Box, Muffler
	155-2570	1	QSDA,QSDB (3.20"ID)	12	405-4851	1	Cover
4	155-2734	1	QSEA,QSFA (4.12"ID)	13	405-4378	1	Angle, Muffler Support
	155-2736	1	Clamp, Muffler	14	155-2568	2	Insulation, Muffler
			QSDA,QSDB (3")		155-2564	1	End
5	155-2571	1	QSEA,QSFA (4")		155-2563	1	Bottom
	155-2567	1	Pipe, Exhaust	15	405-4854	1	Top
			QSDA,QSDB		405-4855	1	Cover, Exhaust - Inlet
7	155-2062-06	1	QSEA,QSFA	16	818-0217-02	12	QSDA,QSDB
8	155-2776	1	Cap, Rain	17	870-0138	4	QSEA,QSFA
9	821-0016	6	Insulation, Muffler	18	821-0005	10	Rivet
			Screw, Locking - Hex Washer	19	870-0462	38	Nut, Hex - Locking
			Head (5/16-18 x 3/4")				Screw, Locking - Hex Washer
10	155-2561		Silencer, Exhaust				Head
	155-2560		QSDA,QSDB				Nut, Push-On
			QSEA,QSFA				

Radiator



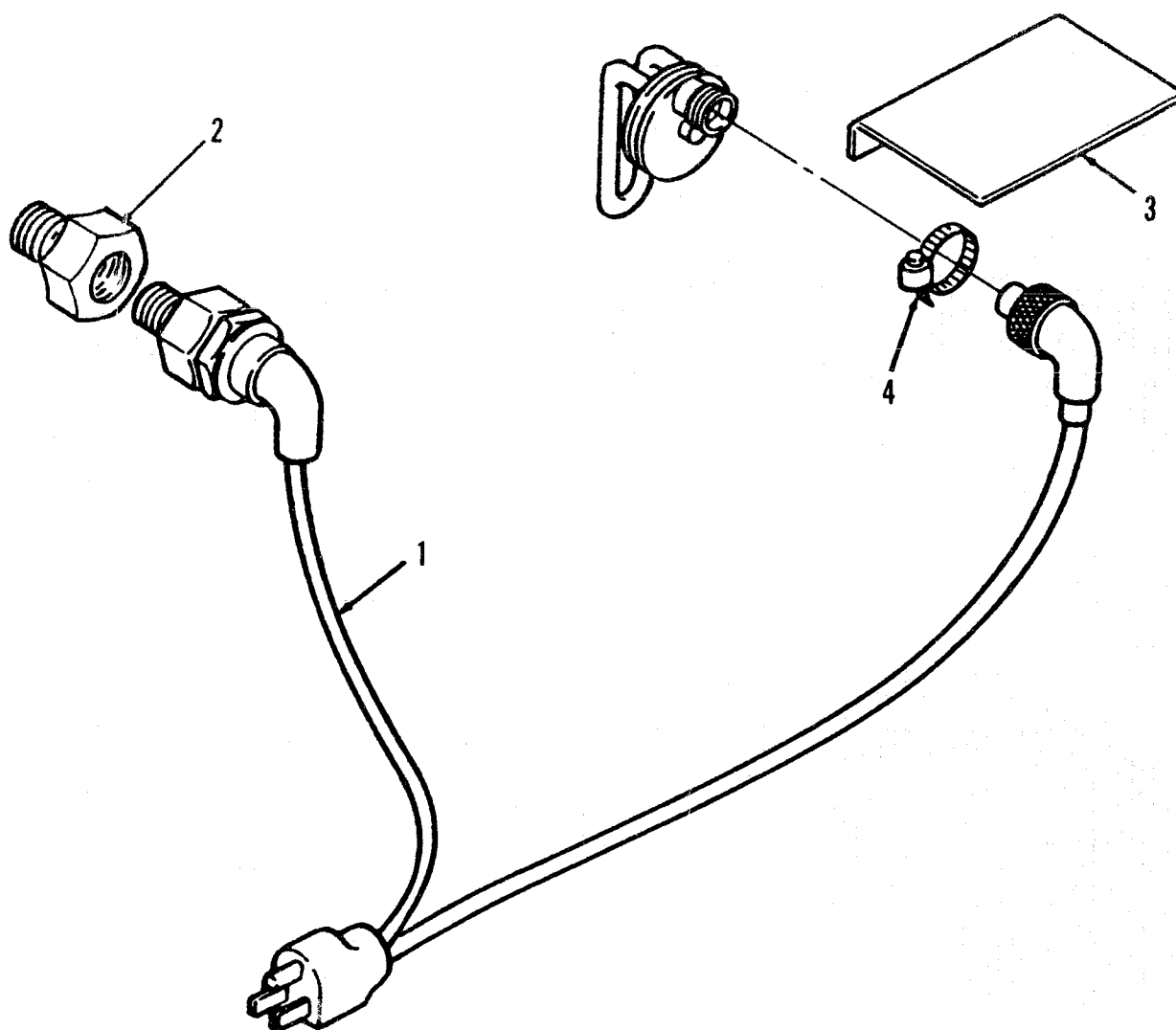
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3415	2	Radiator	13	130-3893	1	Connector, Tee - Hose
2	821-0018	21	Screw, Cap - Hex Locking Head (1/4-20 x 5/8")	14	130-3929	2	Cap, Pressure - Radiator
3	130-3605	4	Hold-down, Radiator	15	508-0021	1	Grommet, Rubber (3/4" Hole)
4	895-0182	-	Tape, Weather Stripping (1/4"Thk. x 3/4" Wide)(Order by Foot - 18' required)	16	503-0354	1	Clamp, Hose
5	895-0170	-	Tape, Neoprene (3/8"Thk. by 3/4"Wide)(Order by Foot 7' Required)	17	130-3984	1	Tank, Overflow
6			Clamp, Hose	18	870-0257	4	Nut, Self-Locking (5/16-18)
	503-1870-04	1	QSDA,QSDB	19	130-3918	1	Tube, Outlet - Radiator
	503-1870-04	2	QSEA,QSFA	20	526-0115	4	Washer, Flat
7			Hose, Radiator - Inlet	21			Clamp, Hose
	503-1792	1	QSDA,QSDB		503-0685	8	QSDA,QSDB
	503-1794	1	QSEA,QSFA		503-0685	10	QSEA,QSFA
8			Hose, Radiator - Outlet	22	503-1870-02	6	Clamp, Hose
	503-1793	1	QSDA,QSDB	23			Plug
	503-1795	1	QSEA,QSFA		502-0153	2	QSDA,QSDB
9	503-1796	2	Hose, Radiator		502-0153	1	QSEA,QSFA
10	130-3891	1	Tube, Radiator - Drain	24	518-0548-24	1	Clip
11	502-0395	2	Connector, Hose	25	503-0304	1	Hose QSEA,QSFA
12	503-0276	-	Hose (14' Required)	26	502-1162	1	Connector, Hose QSEA,QSFA
				27	332-1389	1	Tie, Cable QSEA,QSFA
				28	502-0028	1	Plug, Pipe - Hex Head
				29	518-0548-08	1	Clip

Low Coolant Level Sender



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)	2	338-2010	1	Harness, Wiring

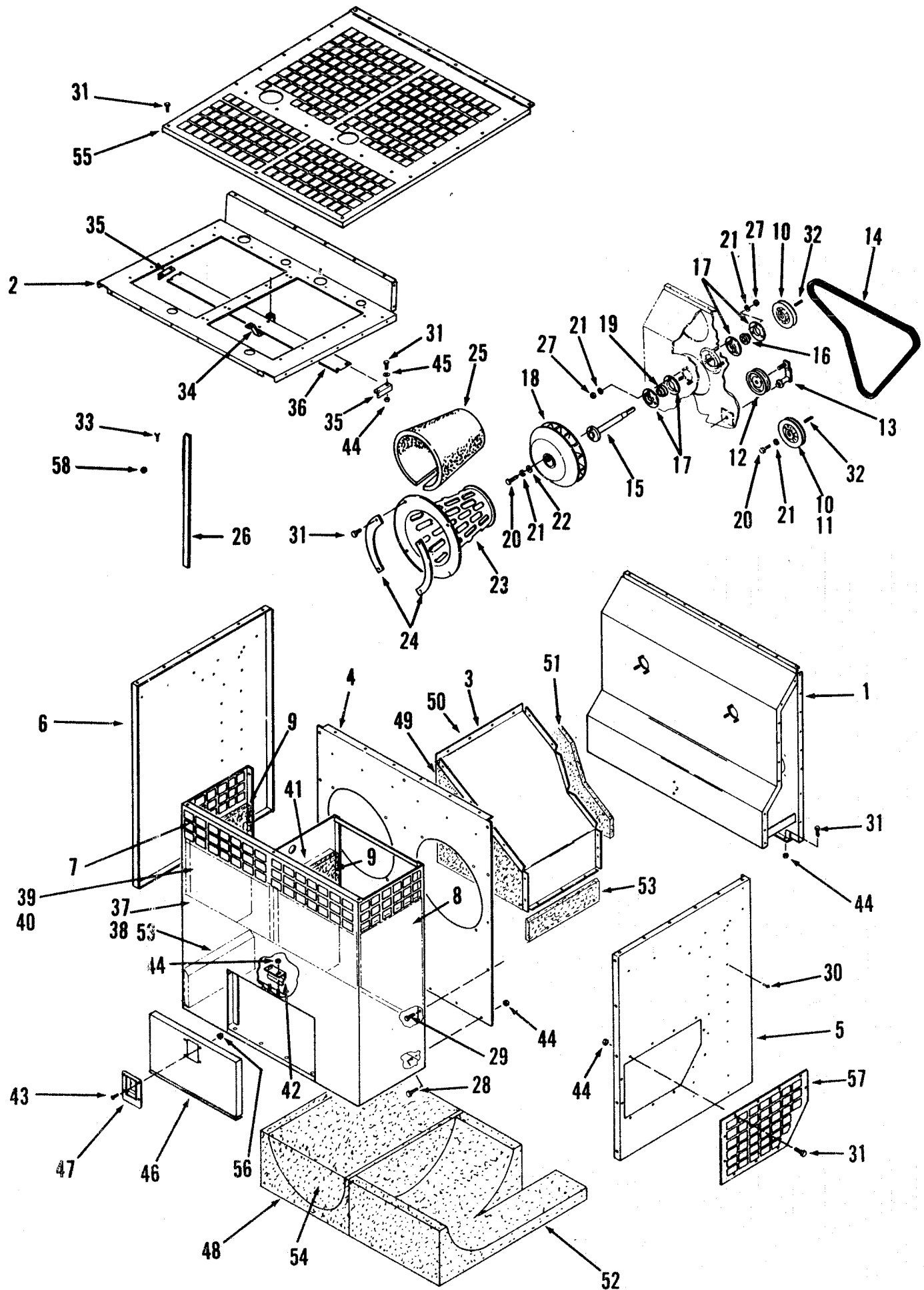
Engine Coolant Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater
	333-0505-01	1	(1000 Watt) QSDA, QSDB
	333-0505-02	1	120 Volts AC
			240 Volts AC
	333-0393-01	1	(1500 Watt) QSEA, QSFA
	333-0393-02	1	120 Volts AC
			240 Volts AC
2	505-0021	1	Bushing, Reducer (3/4x1/2NPT)
			QSDA, QSDB Only

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3			Shield, Heat
	154-2903	1	QSDA, QSDB
	155-2353	1	QSEA, QSFA
4			Clamp, Hose
	503-0189	1	QSDA, QSDB
	503-0183	1	QSEA, QSFA

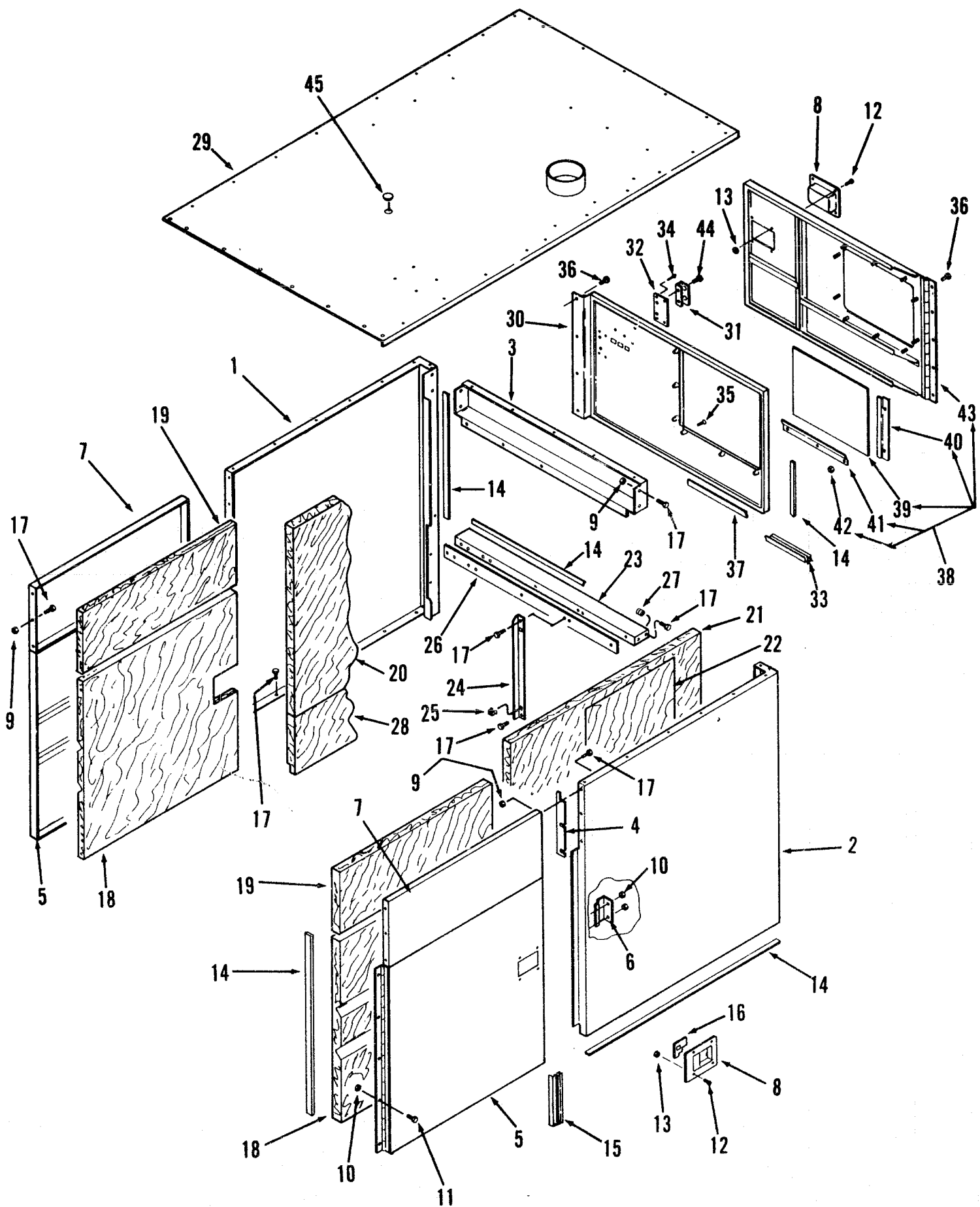
Fan Housing



Fan Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-4849	1	Panel, Weldment	29	821-0016	12	Screw, Locking - Hex Head (5/16-18 x 3/4")
2	405-4332	1	Panel, Radiator Support	30	818-0217-02	70	Rivet
3	405-4333	1	Baffle	31	821-0018	42	Screw, Locking - Hex Head (1/4-20 x 5/8")
4	405-4331	1	Panel, Front	32	515-0249	3	Key
5	405-4366	1	Panel, Front - Right	33	800-0027	1	Screw, Cap - Hex Head
6	405-4365	1	Panel, Front - Left	34	405-4388	1	Bracket, Air Deflector
7	405-4903	1	Housing, Air Inlet	35	405-4389	2	Support, Air Deflector
8	128-0138	1	Foam, Acoustical	36	405-4390	1	Deflector, Air
9	128-0139	2	Foam, Acoustical	37	128-0137-01	1	Foam, Acoustical
10			Sheave, Fan Drive	38	128-0137-02	1	Foam, Acoustical
	130-3889-01	2	QSDA, QSDB	39	128-0137-03	1	Foam, Acoustical
	130-3889-01	3	QSEA, QSFA	40	128-0137-04	1	Foam, Acoustical
11	130-3889-02	1	Sheave, Fan Drive	41	128-0140	1	Foam, Acoustical
12	130-4208	1	Sheave, Idler	42	405-4175	1	Catch, Door
13	130-4210	1	Tensioner	43	815-0607	4	Screw, Machine - Round Head (#10-32 x 1/2")
14			Belt, Fan	44	870-0212	26	Nut, Self Locking (1/4-20)
	511-0180-01	1	QSDA, QSDB	45	526-0018	6	Washer, Flat
	511-0180-03	1	QSEA, QSFA	46	405-4535	1	Door
15	130-3885	2	Shaft Assembly, Fan	47	406-0700	1	Latch, Padlockable
16	510-0169	2	Bearing, 7/8" Shaft	48	128-0143	1	Foam, Acoustical
17	510-0171	8	Retainer	49	128-0144	1	Foam, Acoustical
18	130-3416	2	Fan, Air	50	128-0145	1	Foam, Acoustical
19	510-0170	2	Bearing	51	128-0146	1	Foam, Acoustical
20	800-0026	8	Screw, Cap - Hex Head (5/16-18 x 3/4")	52	128-0147	1	Foam, Acoustical
21	850-0045	22	Washer, Lock (5/16")	53	128-0149	2	Foam, Acoustical
22	526-0115	8	Washer, Flat (5/16")	54	128-0151	2	Foam, Acoustical
23	405-4195	2	Cone, Air Inlet	55	405-4356	1	Panel, Top - Front
24	405-4261	4	Retainer, Cone	56	870-0235	4	Nut, Hex w/ET (#10-32)
25	128-0123	2	Foam, Acoustical	57	405-4658	1	Panel, Air Outlet
26	895-0092	30	Tape, Pressure Sensative Adhesive	58	862-0003	1	Nut, Hex (3/8-16)
27	862-0015	12	Nut, Hex (5/16-18)				
28	821-0011	7	Screw, Locking - Hex Head				

Housing

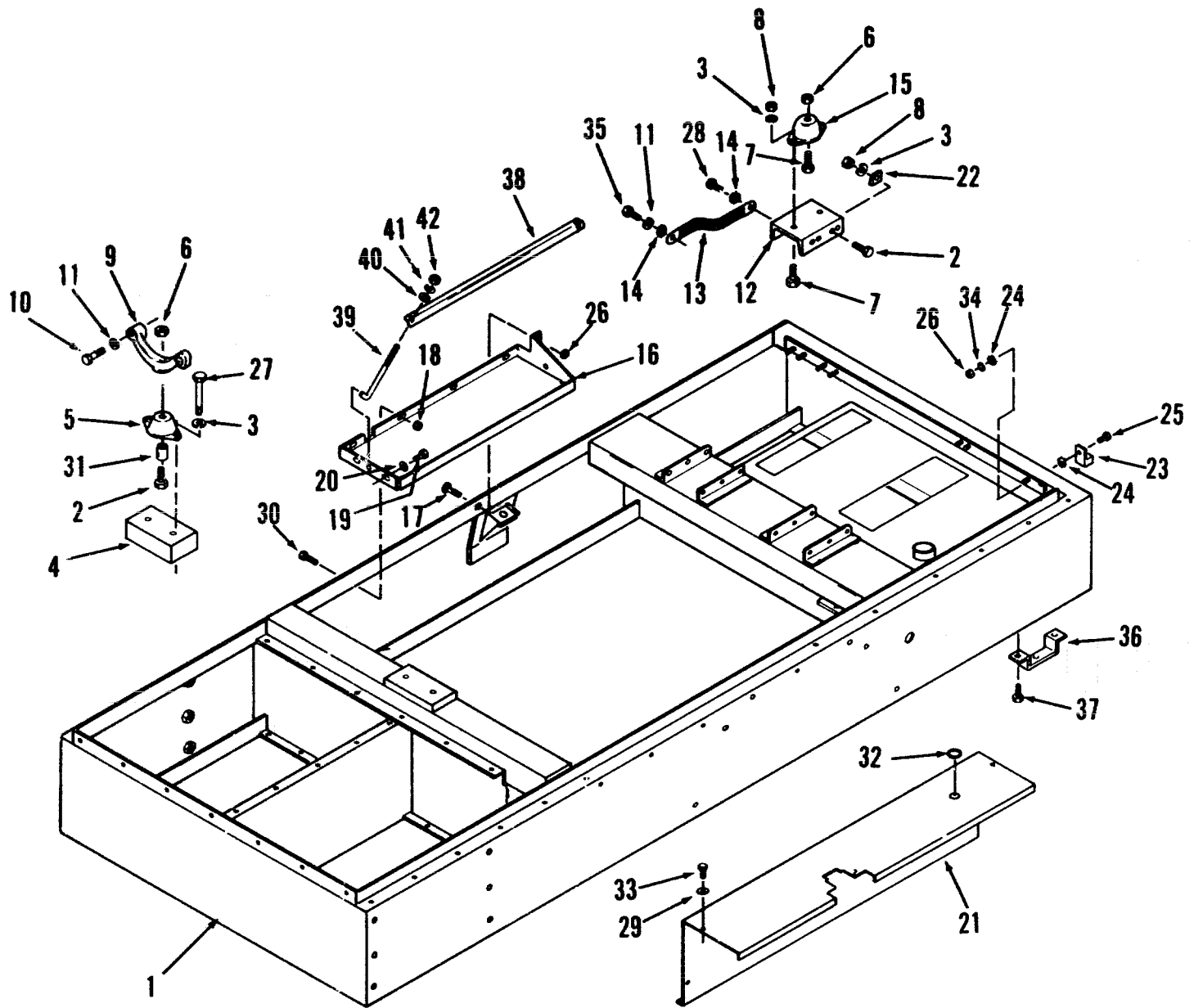


Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-4340	1	Panel, Rear - Right	21	128-0204	1	Foam, Left Side
2	405-4341	1	Panel, Rear - Left	22	128-0202	1	Foam, Muffler Cutout
3	405-4345	1	Panel, Rear - Upper	23	405-4543	1	Crossmember
4	405-4364	12	Shim	24	405-4541	1	Angle, Retainer
5	405-4579	2	Door, Access	25	870-0494	8	Nut, Capative floating (1/4-20)
6	405-4407	2	Catch, Door	26	319-1418	1	Backer, Seal
7	405-4362	2	Panel, Side - Upper	27	870-0489	12	Nut, Self Clinching (5/16-18)
8	406-0700	3	Latch, Padlockable	28	128-0195	1	Foam, Acoustical
9	870-0237	16	Nut, Locking (5/16-18)	29	405-4353	1	Panel, Top
10	870-0212	14	Nut, Self-Locking - Hex Flange Head ((1/4-20)	30	319-1724	1	Panel
11	821-0018	73	Screw, Locking - Hex Head (1/4-20 x 5/8")	31	405-4949	1	Strike, Door
12	815-0607	12	Screw, Machine - Round Head (#10-32 x 1/2")	32	319-1210	1	Plate, Support
13	870-0235	12	Nut, Hex w/ET (#10-32)	33	895-0340	1	Seal, Door - 8"
14			Tape, Sealing - Bulk (Order by the foot)	34	818-0217-02	4	Rivet
	895-0170	-	3/8" Thk x 3/4" Wide 12' Required	35	815-0806	6	Screw, Captive Panel (1/4-20 x 1-1/8")
	895-0308	-	1/8" Thk x 1" Wide 50' Required	36	821-0018	11	Screw, Whizlok (1/4-20 x 5/8")
	895-0214	-	Neoprene	37	895-0181	-	Weatherstripping (1/4"Thk x 1/2"Wide) 11' Required
15	895-0340	1	Seal, Door	38	405-4841	1	Door, Control (Includes Parts Marked *)
16	128-0119	17	Seal, Foam	39	319-1369	1	*Window
17	821-0016	36	Screw, Cap - Hex Head (5/16-18 x 3/4")	40	405-4428	2	*Clamp
18	128-0201	2	Foam, Access Door	41	405-4429	2	*Clamp
19	128-0203	2	Foam, Over Door	42	870-0131	10	*Nut, Locking - Hex Head (#10-32)
20	128-0205	1	Foam, Right Side	43	405-4839-01	1	*Door, Control - Upper
				44	821-0015	2	Screw, Hex Head (1/4-20 x 3/4")
				45	517-0310	1	Plug

* Parts included in Control Door

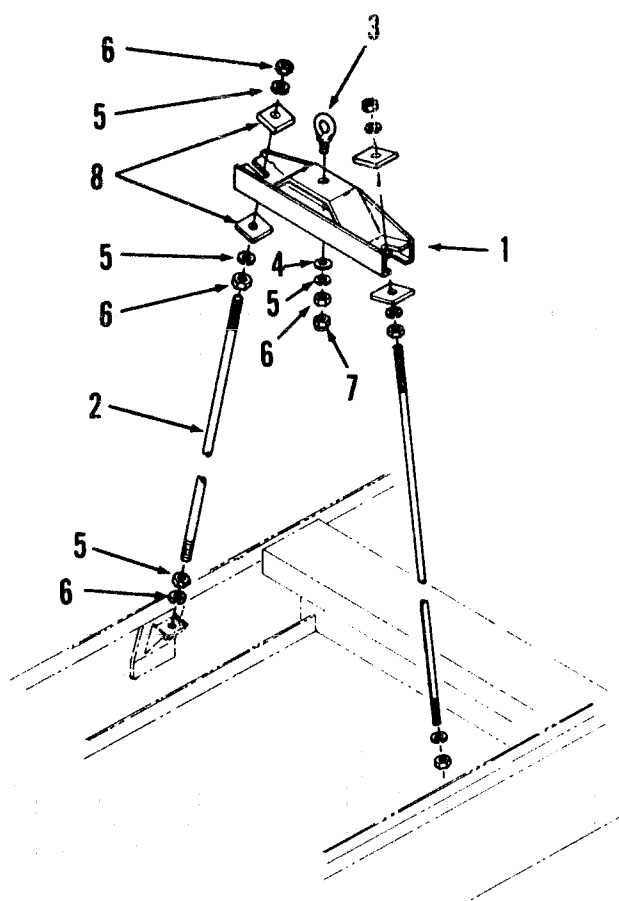
Skid



Skid

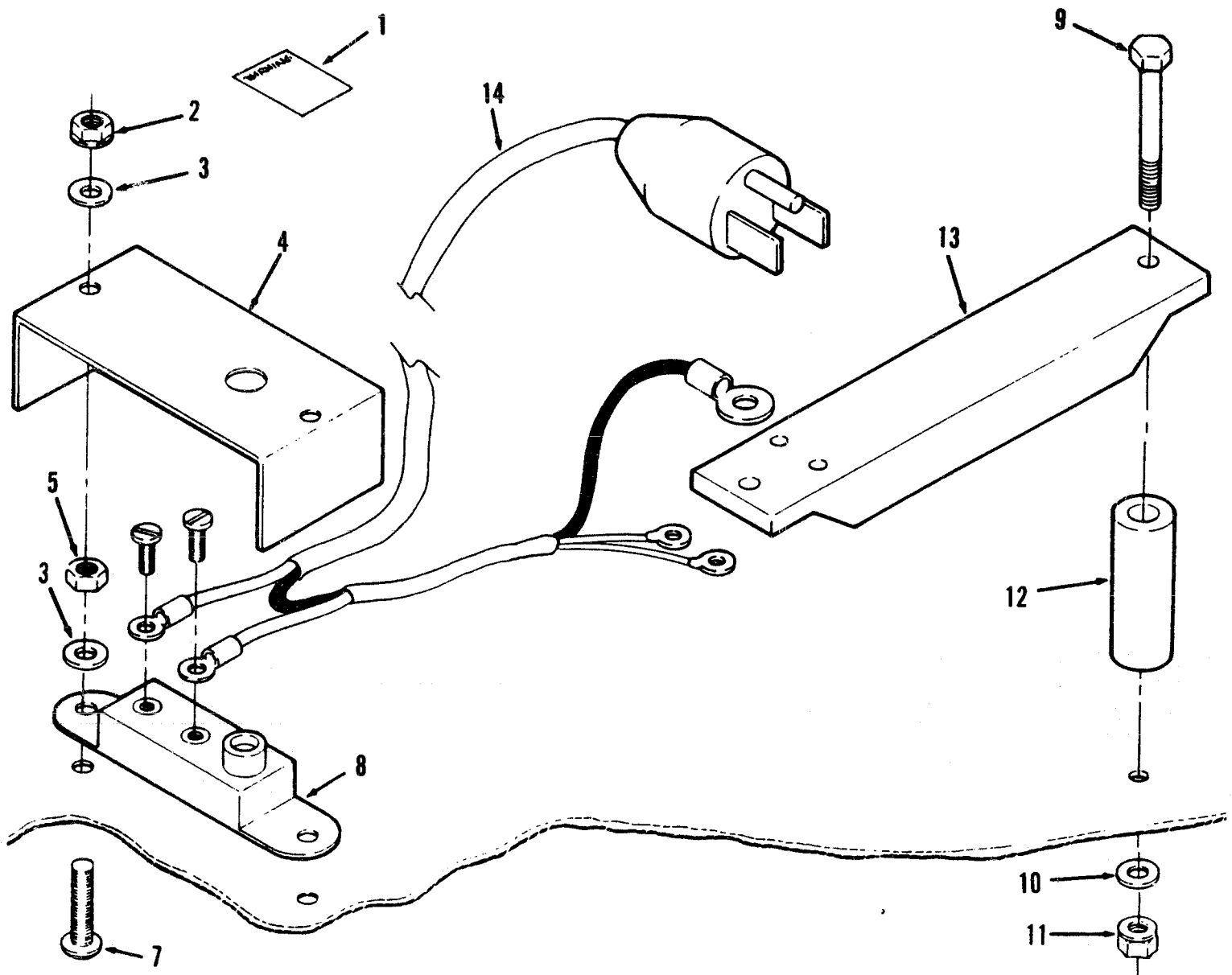
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-3539	1	Skid	24	856-0008	1	Washer, Lock EIT (5/16")
2	800-0092	8	Screw, Cap - Hex Head	25	800-0030	1	Screw, Cap - Hex Head (5/16-18 x 1-1/4")
3	850-0060	14	Washer, Lock (1/2")	26	862-0015	2	Nut, Self Locking (5/16-18)
4	403-3197	1	Spacer, Engine Mount QSDA,QSDB	27			Screw, Cap - Hex Head (1/2-13 x 1") QSDA,QSDB QSEA,QSFA
5	402-0650	1	Cushion, Vibration Isolation	28	800-0090	2	
6	870-0490	3	Nut, Hex - Locking	28	800-0093	1	Screw, Cap - Hex Head
7	800-0091	6	Screw, Cap - Hex Head	29	526-0018	4	Washer, Flat (1/4")
8	862-0016	12	Nut, Hex (1/2-13)	30	821-0030	4	Screw, Cap - Hex Head
9			Support, Engine	31			Spacer, Engine Mount
	403-2567	1	QSDA,QSDB		403-3041-01	1	QSDA,QSDB
	403-2690	1	QSEA,QSFA		403-3041-02	1	QSEA,QSFA
10			Screw	32	508-0117	1	Grommet
	800-2121	4	QSDA,QSDB	33	821-0018	4	Screw, Cap - Hex Head (1/4-20 x 5/8")
	800-2124	4	QSEA,QSFA	34	850-0045	1	Washer, Lock (5/16")
11	850-2012	5	Washer, Lock (M12)	35	800-2111	1	Screw, Cap - Hex Head (M12 x 25mm)
12	232-3640	2	Channel, Generator Mount	36	403-3002	4	Foot, Skid
13	337-0090	2	Strap, Electrical	37	800-0092	8	Screw, Cap - Hex Head (1/2-13 x 1-1/2")
14	856-0013	2	Washer, Lock - EIT	38	416-0963-02	1	Holddown, Battery
15	402-0651	2	Cushion, Vibration Isolation	39	416-0896	2	Holddown, Battery
16	416-0973	1	Tray, Battery	40	526-0015	2	Washer, Flat (1/4")
17	816-0099	1	Bolt, Carriage	41	850-0040	2	Washer, Lock (5/16")
18	870-0281	4	Nut, Hex - Locking (3/8-16)	42	862-0001	2	Nut, Hex (1/4-20)
19	815-0236	2	Screw, Hex Head - Thread Cutting (5/16-18 x 5/8")				
20	526-0015	2	Washer, Flat				
21	403-3202-01	1	Duct, Air				
22	403-2733-01	8	Washer, Bevel				
23	332-1473	1	Lug, Solderless				

Single Point Lift



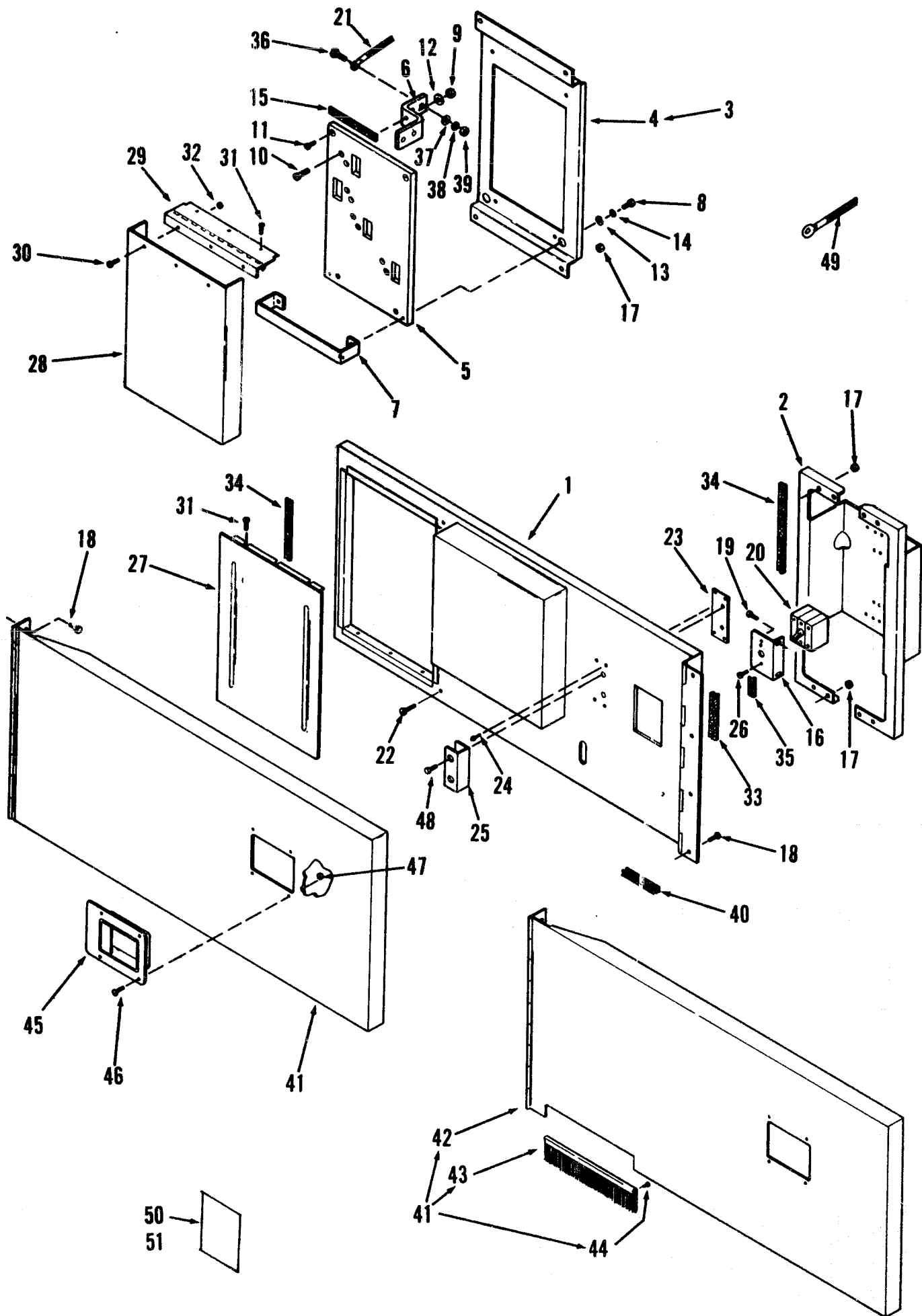
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-3220	1	Bracket, Lifting	5	850-0109	1	Washer, Lock
2	403-3223	2	Rod, Lifting	6	862-0018	7	Nut, Hex
3	232-3542	1	Eye Bolt, Lifting	7	870-1063	7	Nut, Pal
4	526-0081	1	Washer, Flat	8	403-3242	4	Washer, Support

Control Space Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-3232	1	Decal, Warning (Shock Hazard)	10	526-0113	2	Washer, Flat (5/16")
2	870-0183	2	Nut, Self-Locking - Hex (#6-32)	11	870-0257	2	Nut, Self-Locking - Hex (5/16-18)
3	854-0006	4	Washer, Lock - IT (#6)	12	130-1107	2	Spacer
4	301-1886	1	Cover	13	333-0151	1	Heater, Electrical 120 VAC 300 Watt
5	860-0006	2	Nut, Hex (#6-32)	14	335-0161	1	Cable, Electrical, 120 VAC
7	812-0070	2	Screw, Machine - Round Head (#6-32 x 1-1/4")				
8	309-0128	1	Thermostat - Adjustable				
9	800-0034	2	Screw, Cap - Hex Head (5/16-18 x 2-1/4")				

Generator Load Panel

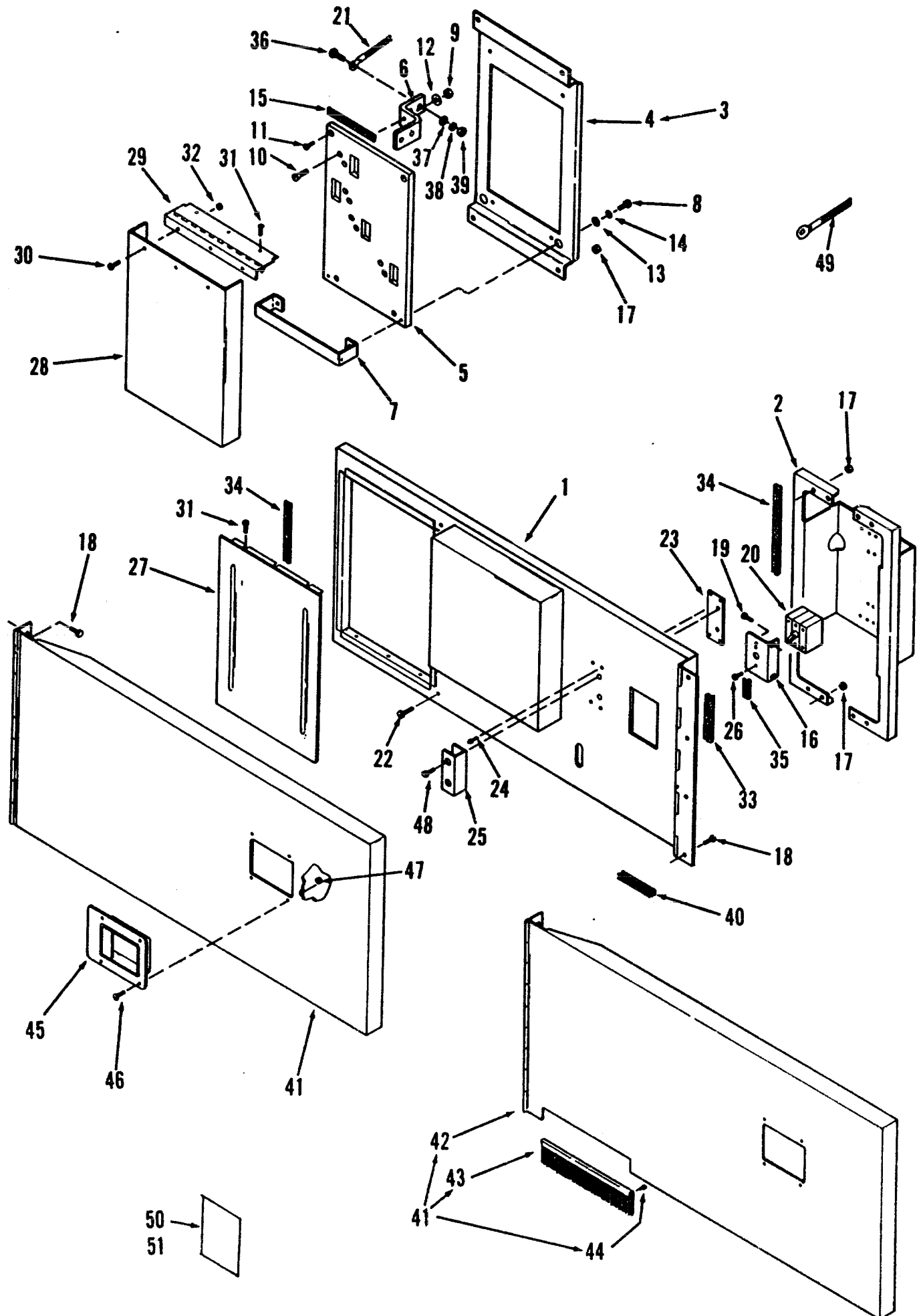


Generator Load Panel

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1727	1	Panel, Load	20			Breaker, Circuit - Pilot
2	319-1417	1	Frame, Circuit Breaker		320-1768-01	1	QSDA, QSDB - 4 Amp Trip
3	332-3135		Terminal Assembly, Load (Includes Parts Marked*)		320-1768-02	1	QDEA, QSFA - 5 Amp Trip
		1	Circuit Breaker & Load Term - 80,100				
		1	Circuit Breaker & Load Term - 125,150				
		1	Circuit Breaker & Load Term w/Shunt Trip - 80,100	21			Lead
		1	Circuit Breaker & Load Term w/Shunt Trip - 125,150		226-4386	6	Circuit Breaker & Load Term 80,100; Circuit Breaker & Load Terms w/Shunt Trip 80,100
4	319-1381	1	*Frame, Output		226-4386	9	Circuit Breaker & Load Term 125,150; Circuit Breaker & Load Terms w/Shunt Trip 125,150
5	319-1384	1	*Panel, Bus Bar Insulation				
6	337-2561	1	*Bus, Output	22	815-0805	2	Screw, Captive Panel (1/4-20 x 1-1/4")
7	319-1398	1	*Bracket, Load Cable	23	319-1210	1	Plate, Support
8	800-0005	2	*Screw, Cap - Hex Head (1/4-20 x 3/4")	24	818-0217-02	4	Rivet
9	862-0014	8	*Nut, Hex (5/16-18)	25	405-4949	1	Strike
10	814-0181	8	*Screw, Machine - Flat Head (5/16-18 x 1-1/4")	26	812-0059		Screw, Machine - Round Head (#6-32 x 5/16")
11	814-0179	4	*Screw, Machine - Flat Head (5/16-18 x 1")			1	Circuit Breaker w/Shunt Trip 80,100
12	851-0028	8	*Washer, Conical Spring (5/16)			1	Circuit Breaker w/Shunt Trip 125,150
13	526-0016	2	*Washer, Flat (1/4)			1	Circuit Breaker & Load Term w/Shunt Trip 80,100
14	851-0027	2	*Washer, Conical Spring (1/4)			1	Circuit Breaker & Load Term w/Shunt Trip 125,150
15	895-0151	-	*Seal, Weatherstripping (5/16" Thk x 1/2" Wide) (4' Required)			1	Circuit Breaker & Load Term w/Shunt Trip 125,150
16	319-1444		Bracket, Pilot Breaker	27	319-1439	1	Panel
		1	Circuit Breakers w/Shunt Trip - 80,100			1	No Circuit Breaker or Load Term
		1	Circuit Breaker w/Shunt Trip - 125,150			1	Circuit Breaker Only
		1	Circuit Breaker & Load Terms w/Shunt Trip-80,100			1	Circuit Breaker w/Shunt Trip 80,100
		1	Circuit Breaker & Load Terms w/Shunt Trip-125,150			1	Circuit Breaker w/Shunt Trip 125,150
17			Nut, Whizlok (5/16-18)	28	319-1385	1	Cover, Load Terminal
	870-0257	4	Circuit Breaker, Circuit Breaker w/Shunt Trip 80, 100; Circuit Breaker w/shunt Trip 100,150			1	Circuit Breaker & Load Term 80,100
		6	Circuit Breaker & Load Terms w/Shunt Trip 80,100; Circuit Breaker & Load Terms w/Shunt Trip 125/150			1	Circuit Breaker & Load Term 125,150
						1	Circuit Breaker & Load Term w/Shunt Trip 80,100
18	821-0018	8	Screw, Whizloc (5/16-18)			1	Circuit Breaker & Load Term w/Shunt Trip 125,150
19	821-0004	2	Screw, Whizloc (#10-32 x 5/16") Circuit Breaker w/Shunt Trip 80,100; Circuit Breaker w/Shunt Trip 125,150; Circuit Breaker & Load Terms w/Shunt Trip 80, 100; Circuit Breaker & Load Terms w/Shunt Trip 125,150				

* - Parts Included in 332-3135 Load Terminal Assembly

Generator Load Panel

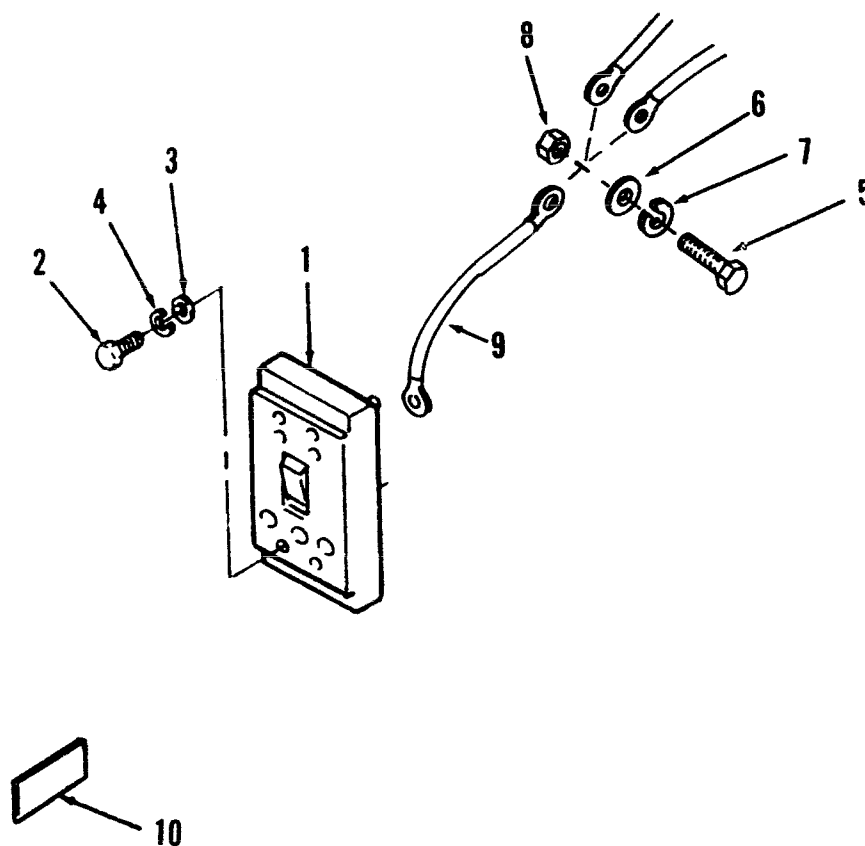


Generator Load Panel

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
29	406-0721	1	Hinge	38	850-0050	3	Washer, Lock - Split (3/8")
		1	Circuit Breaker & Load Term 80,100			3	Circuit Breaker & Load Term 80,100
		1	Circuit Breaker & Load Term 125,150			3	Circuit Breaker & Load Term 125,150
		1	Circuit Breaker & Load Term w/Shunt Trip 80,100			3	Circuit Breaker & Load Term w/Shunt Trip 80,100
		1	Circuit Breaker & Load Term w/Shunt Trip 125,150			3	Circuit Breaker & Load Term w/Shunt Trip 125,150
30	815-0161		Screw, Machine - Flat Head (#10-32 x 3/8")	39	862-0003	3	Nut, Hex (3/8-16)
		3	Circuit Breaker & Load Term 80,100			3	Circuit Breaker & Load Term 80,100
		3	Circuit Breaker & Load Term 125,150			3	Circuit Breaker & Load Term 125,150
		3	Circuit Breaker & Load Term w/Shunt Trip 80,100			3	Circuit Breaker & Load Term w/Shunt Trip 80,100
		3	Circuit Breaker & Load Term w/Shunt Trip 125,150			3	Circuit Breaker & Load Term w/Shunt Trip 125,150
31	815-0364	3	Screw, Round Head w/ET (#10-32 x 1/2")	40	895-0340	-	Seal, Door (Order by foot) (10' Required)
32	870-0131		Nut, Hex w/ET (#10-32)	41	405-4835	1	Door, Lower
		3	Circuit Breaker & Load Term 80,100			1	Circuit Breaker, Circuit Breaker w/Shunt Trip 80,100; Circuit Breaker w/Shunt Trip 125,150
		3	Circuit Breaker & Load Term 125,150		405-4836		Door, Load (Included parts marked *)
		3	Circuit Breaker & Load Term w/Shunt Trip 80,100			1	Circuit Breaker & Load Term 80,100
		3	Circuit Breaker & Load Term w/Shunt Trip 125,150			1	Circuit Breaker & Load Term 125,150
33	895-0308	-	Tape (1/8" Thk x 1/2" wide) (Order by foot)(2' Required)			1	Circuit Breaker & Load Term w/Shunt Trip 80,100
34	895-0181	-	Seal, Weatherstripping (1/4" Thk x 1/2" wide)(Order by foot)(15' Required)			1	Circuit Breaker & Load Term w/Shunt Trip 125,150
35	895-0176	-	Tape (1/4" Thk x 3/4" wide) (Order by foot)(1' Required)	42	405-4838-01	1	*Door, Load
36	800-0051		Screw, Machine - Hex Head (3/8-16 x 1-1/4")	43	508-1072	1	*Seal, Cable Entrance
		3	Circuit Breaker & Load Term 80,100	44	815-0387	1	*Screw, Pan Head - Cross Recessed (#6-32 x 1/4")
		3	Circuit Breaker & Load Term 125,150	45	406-0700	1	Latch
		3	Circuit Breaker & Load Term w/Shunt Trip 80,100	46	815-0607	4	Screw, Machine - Round Head (#10-32 x 1/2")
		3	Circuit Breaker & Load Term w/Shunt Trip 125,150	47	870-0235	4	Nut, Hex w/ET (#10-32)
37	526-0029		Washer, Flat (3/8")	48	821-0010	2	Screw, Hex Head Lock (1/4-20) Lead
		6	Circuit Breaker & Load Term 80,100	49	226-4578	2	Circuit Breaker & Load Term 80,100
		6	Circuit Breaker & Load Term 125,150			2	Circuit Breaker & Load Term 125,150
		6	Circuit Breaker & Load Term w/Shunt Trip 80,100			3	Circuit Breaker & Load Term w/Shunt Trip 80,100
		6	Circuit Breaker & Load Term w/Shunt Trip 125,150			3	Circuit Breaker & Load Term w/Shunt Trip 125,150
				50	098-6497	1	Decal, Panel - Pilot Breaker
				51	098-6498	1	Decal, Panel - Main Circuit Breaker

* - Parts Included in 405-4836 Load Door

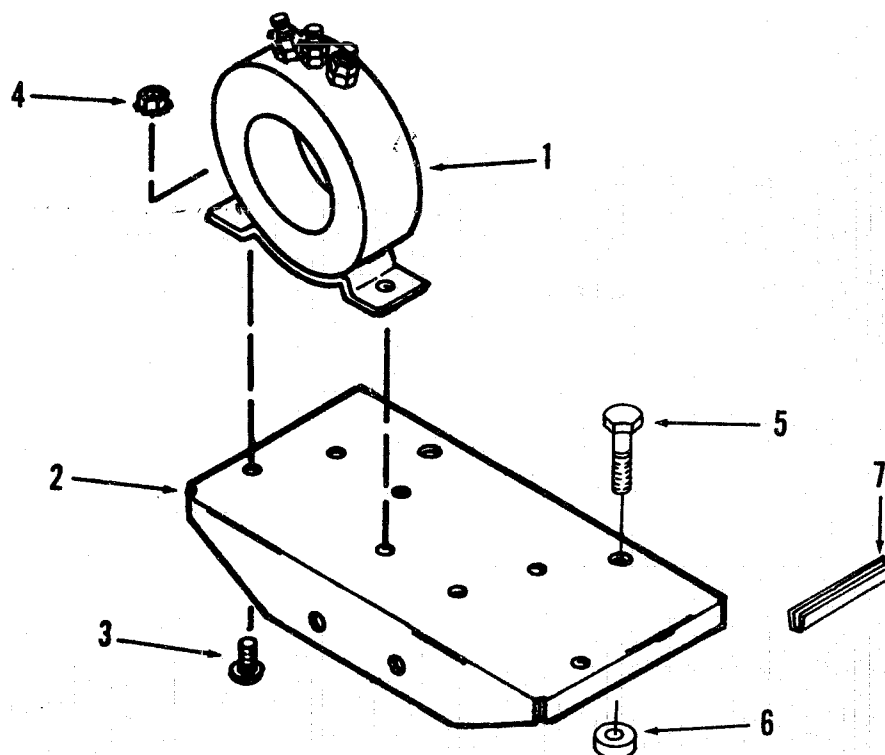
Circuit Breaker



Circuit Breaker

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit Standard		320-1471-09	1	200 Amp, 3 Pole, 600 Volt
	320-1555-14	1	400 Amp, 2 Pole, 240 Volt		320-1471-10	1	225 Amp, 3 Pole, 600 Volt
	320-1513-10	1	450 Amp, 2 Pole, 240 Volt		320-1472-06	1	250 Amp, 3 Pole, 600 Volt
	320-1513-11	1	500 Amp, 2 Pole, 240 Volt		320-1472-07	1	300 Amp, 3 Pole, 600 Volt
	320-1513-12	1	600 Amp, 2 Pole, 240 Volt		320-1472-08	1	350 Amp, 3 Pole, 600 Volt
	320-1555-15	1	250 Amp, 3 Pole, 240 Volt		320-1472-09	1	400 Amp, 3 Pole, 600 Volt
	320-1555-16	1	300 Amp, 3 Pole, 240 Volt		320-1472-10	1	450 Amp, 3 Pole, 600 Volt
	320-1555-17	1	350 Amp, 3 Pole, 240 Volt		320-1472-11	1	500 Amp, 3 Pole, 600 Volt
	320-1555-18	1	400 Amp, 3 Pole, 240 Volt		320-1472-12	1	600 Amp, 3 Pole, 600 Volt
	320-1458-30	1	125 Amp, 3 Pole, 480 Volt				W/Shunt Trip & Aux Contacts
	320-1458-31	1	150 Amp, 3 Pole, 480 Volt		320-1537-09	1	400 Amp, 2 Pole, 600 Volt
	320-1458-47	1	125 Amp, 3 Pole, 600 Volt		320-1537-10	1	450 Amp, 2 Pole, 600 Volt
	320-1458-48	1	150 Amp, 3 Pole, 600 Volt		320-1537-11	1	500 Amp, 2 Pole, 600 Volt
	320-1459-08	1	175 Amp, 3 Pole, 600 Volt		320-1537-12	1	600 Amp, 2 Pole, 600 Volt
	320-1459-09	1	200 Amp, 3 Pole, 600 Volt		320-1490-47	1	125 Amp, 3 Pole, 600 Volt
	320-1459-10	1	225 Amp, 3 Pole, 600 Volt		320-1490-48	1	150 Amp, 3 Pole, 600 Volt
	320-1460-06	1	250 Amp, 3 Pole, 600 Volt		320-1491-08	1	175 Amp, 3 Pole, 600 Volt
	320-1460-07	1	300 Amp, 3 Pole, 600 Volt		320-1491-09	1	200 Amp, 3 Pole, 600 Volt
	320-1460-08	1	350 Amp, 3 Pole, 600 Volt		320-1491-10	1	225 Amp, 3 Pole, 600 Volt
	320-1460-09	1	400 Amp, 3 Pole, 600 Volt		320-1492-06	1	250 Amp, 3 Pole, 600 Volt
	320-1460-10	1	450 Amp, 3 Pole, 600 Volt		320-1492-07	1	300 Amp, 3 Pole, 600 Volt
	320-1460-11	1	500 Amp, 3 Pole, 600 Volt		320-1492-08	1	350 Amp, 3 Pole, 600 Volt
	320-1460-12	1	600 Amp, 3 Pole, 600 Volt		320-1492-09	1	400 Amp, 3 Pole, 600 Volt
			W/Aux Contacts		320-1492-10	1	450 Amp, 3 Pole, 600 Volt
	320-1556-14	1	400 Amp, 2 Pole, 600 Volt		320-1492-11	1	500 Amp, 3 Pole, 600 Volt
	320-1516-10	1	450 Amp, 2 Pole, 600 Volt		320-1492-12	1	600 Amp, 3 Pole, 600 Volt
	320-1516-11	1	500 Amp, 2 Pole, 600 Volt	2			Screw, Machine - Round Head
	320-1516-12	1	600 Amp, 2 Pole, 600 Volt		812-0157	4	(1/4-20 x 1-3/4")
	320-1556-15	1	250 Amp, 3 Pole, 240 Volt				2 Pole Circuit Breaker,
	320-1556-16	1	300 Amp, 3 Pole, 240 Volt				3 Pole 600 Volt, 250-600 Amp
	320-1556-17	1	350 Amp, 3 Pole, 240 Volt		812-0094	4	(#8-32 x 3-1/2")
	320-1556-18	1	400 Amp, 3 Pole, 240 Volt				3 Pole, 480 Volt, 600 Volt
	320-1462-30	1	125 Amp, 3 Pole, 480 Volt				125, 150 Amp
	320-1462-31	1	150 Amp, 3 Pole, 480 Volt		812-0118	4	(#10-24 x 5")
	320-1462-47	1	125 Amp, 3 Pole, 600 Volt				3 Pole, 600 Volt, 175-225 Amp
	320-1462-48	1	150 Amp, 3 Pole, 600 Volt		812-0165	4	(1/4-20 x 4-1/2")
	320-1463-08	1	175 Amp, 3 Pole, 600 Volt				3 Pole, 240 Volt, w/Aux Cont
	320-1463-09	1	200 Amp, 3 Pole, 600 Volt	3			Washer, Flat - Breaker Mtg
	320-1463-10	1	225 Amp, 3 Pole, 600 Volt		526-0108	4	(1/4")
	320-1464-06	1	250 Amp, 3 Pole, 600 Volt		526-0048	4	(#8)
	320-1464-07	1	300 Amp, 3 Pole, 600 Volt		526-0008	4	(#10)
	320-1464-08	1	350 Amp, 3 Pole, 600 Volt	4			Washer, Lock - Breaker Mtg
	320-1464-09	1	400 Amp, 3 Pole, 600 Volt		850-0040	4	(1/4")
	320-1464-10	1	450 Amp, 3 Pole, 600 Volt		850-0025	4	(#8)
	320-1464-11	1	500 Amp, 3 Pole, 600 Volt	5	800-0028	5	Screw, Cap - Hex Head
	320-1464-12	1	600 Amp, 3 Pole, 600 Volt				(5/16-18 x 1")
			W/Shunt Trips	6	526-0022	5	Washer, Flat (5/16")
	320-1522-09	1	400 Amp, 2 Pole, 600 Volt	7	850-0045	5	Washer, Lock (5/16")
	320-1522-10	1	450 Amp, 2 Pole, 600 Volt	8	862-0015	5	Nut, Hex (5/16-18)
	320-1522-11	1	500 Amp, 2 Pole, 600 Volt	9			Lead, Breaker - Circuit (56")
	320-1522-12	1	600 Amp, 2 Pole, 600 Volt				(Quantity as needed)
	320-1470-30	1	125 Amp, 3 Pole, 600 Volt		226-4579	1	With 3/8" ID Ring Terminal
	320-1470-31	1	150 Amp, 3 Pole, 600 Volt		226-3376	1	With 1/2" ID Ring Terminal
	320-1471-08	1	175 Amp, 3 Pole, 600 Volt	10	98-2304	1	Decal, Breaker - Circuit

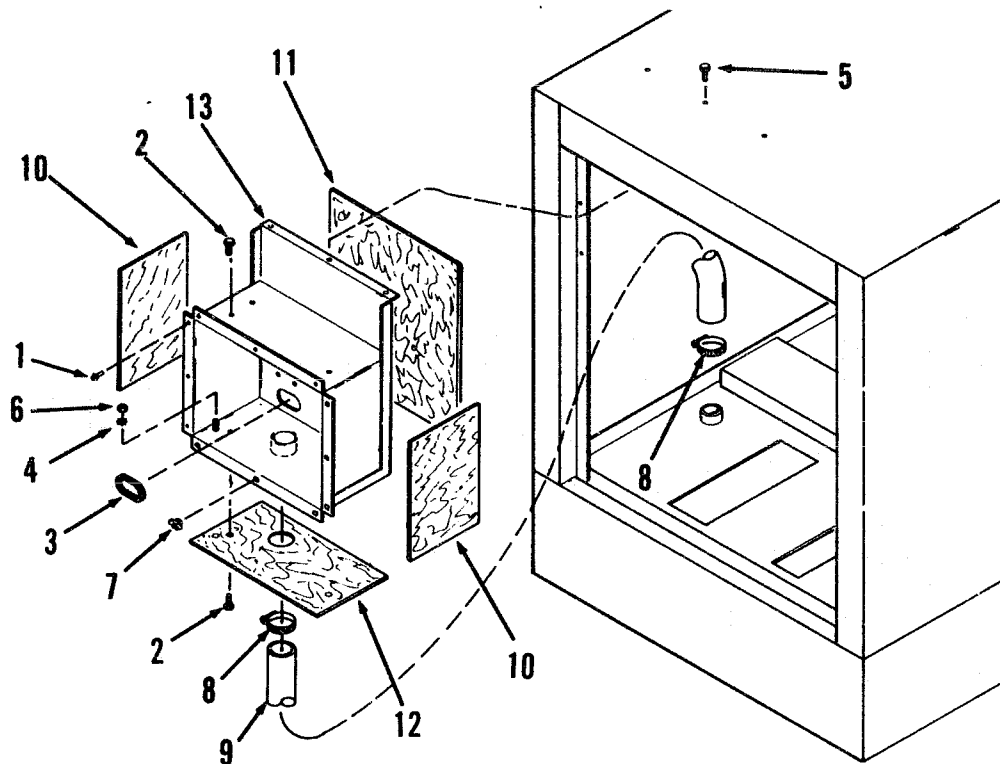
Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current
	302-1868-05	3	Ratio 300/5
	302-1868-06	3	Ratio 400/5
	302-1868-07	3	Ratio 500/5
	302-1868-08	3	Ratio 750/5
2	302-1937	1	Bracket, Mounting
3	821-0005	6	Screw, Machine - Round Head (#10-32 x 1/2")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	870-0131	6	Nut, Hex w/ET (#10-32)
5	800-2115	2	Screw, Cap - Hex Head (M12 x 45mm)
6	370-4081	2	Spacer
7	508-0305-02	1	Edging

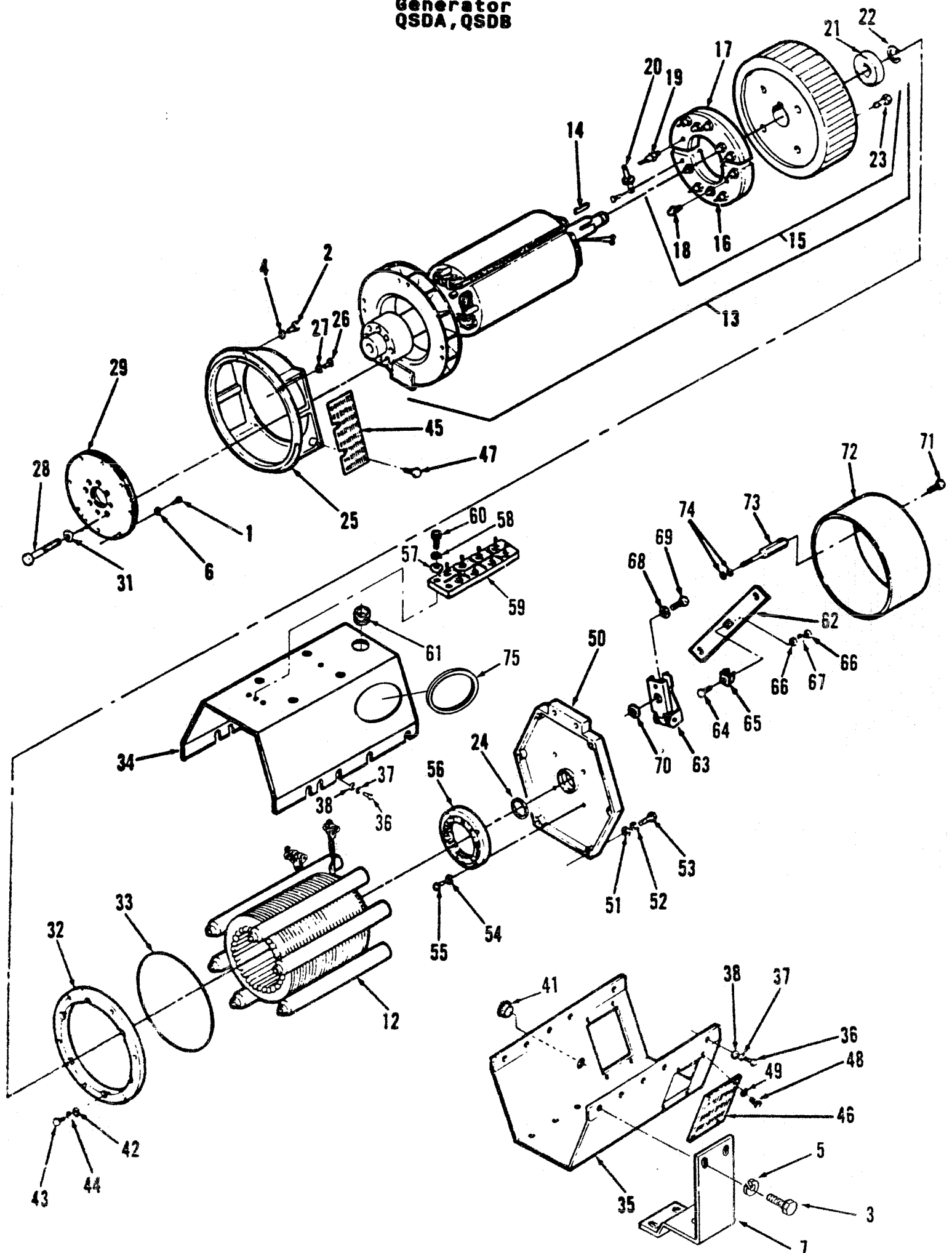
Control Box



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	818-0217-02	6	Rivet
2	821-0014	4	Screw, Locking - Hex Head (5/16-18 x 1/2")
3	508-0192	1	Grommet, Plastic
4	853-0013	1	Washer, Lock - ET (1/4")
5	821-0018	3	Screw, Locking - Hex Head (1/4-20)
6	870-0212	1	Nut, Self Locking (1/4-20)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	870-0494	6	Nut, Captive Floating (1/4-20)
8	503-1870-04	2	Clamp, Hose
9	503-1817	1	Hose, Air
10	128-0197	2	Insulation, Foam - Side
11	128-0198	1	Insulation, Foam - Rear
12	128-0199	1	Insulation, Foam - Bottom
13	405-4821-01	1	Box, Control

Generator
QSDA, QSDB



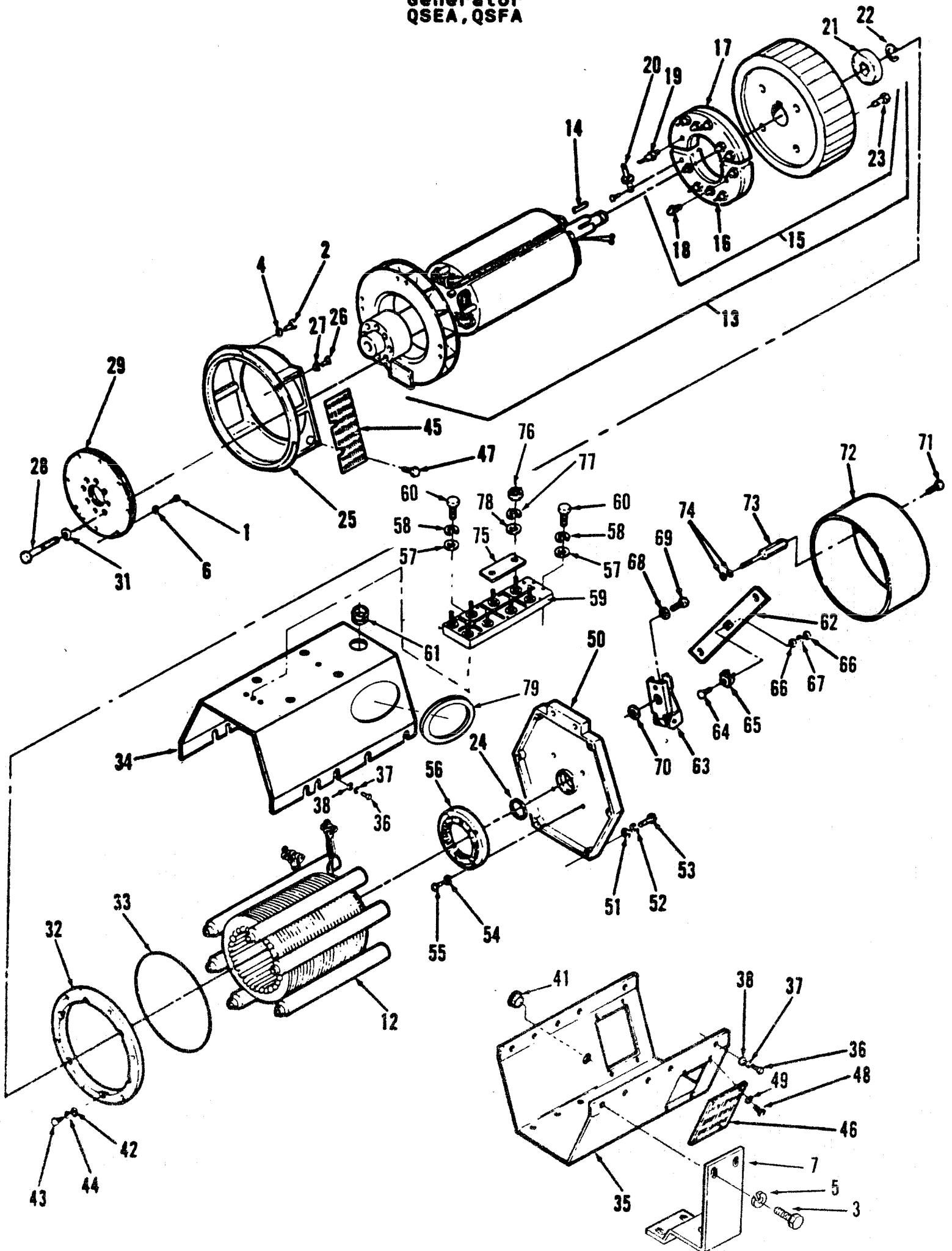
Generator QSDA, QSOB

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	805-0015	8	Bolt, Place (3/8-16 x 3/4")	31	526-0259	8	Washer, Flat (M16)
2	800-2088	12	Screw, Cap - Hex Head (M10 x 1.5 x 35)	32	231-0319	1	Ring, Adapter
3	800-2112	8	Screw, Cap - Hex Head (M12 x 30mm)	33	508-0139	-	Seal, Edging (Order by the foot - 3 feet required)
4	850-2010	12	Washer, Lock - Spring (M10)	34	234-0937-01	1	Cover, Stator - Upper
5	850-2012	8	Washer, Lock - Spring (M12) (165/190 Stack Length)		234-0937-02	1	165/190 Stack Length
	850-2010	8	(M10) (230-375 Stack Length)		234-0937-03	1	230/280 Stack Length
6	526-0174	8	Washer, Flat (3/8")		234-0937-04	1	335 Stack Length
7	403-3119	2	Bracket, Generator Mounting	35	232-3820-01	1	375 Stack Length
12			Stator		232-3820-02	1	Cover, Stator - Lower
			190 to 480 Volt -		232-3820-03	1	165/190 Stack Length
			50 or 60 Hertz		232-3820-04	1	230/285 Stack Length
	220-4298-31	1	165 Stack Length	36	800-2112	10	335 Stack Length
	220-4298-32	1	190 Stack Length				375 Stack Length
	220-4298-33	1	230 Stack Length	37	850-2012	10	Screw, Cap - Hex Head (M12 x 30)
	220-4298-34	1	285 Stack Length	38	526-2140	10	Washer, Lock - Spring (M12)
	220-4298-35	1	335 Stack Length	41	517-0135	1	Washer, Flat (M12)
	220-4298-36	1	375 Stack Length	42	526-0077	6	Plug
			380 Volt Only -	43	800-2087	6	Washer, Flat (M10)
			60 Hertz				Screw, Cap - Hex Head (M10 x 30)
	220-4298-37	1	165 Stack Length	44	850-2010	6	Washer, Lock - Spring (M10)
	220-4298-38	1	190 Stack Length	45	234-0867	2	Guard, Fan
	220-4298-39	1	230 Stack Length	46	234-0879	2	Screen, Air Inlet
	220-4298-40	1	285 Stack Length	47	821-2020	8	Screw, Cap - Locking Head (M5 x 10)
			600 Volt Only	48	815-0793-03	8	Screw, Cap - Locking Head (M5 x .8 x 12)
			60 Hertz	49	850-2005	8	Washer, Lock - Spring (M5)
	220-4298-43	1	165 Stack Length	50	211-0423	1	Bell, End
	220-4298-44	1	190 Stack Length	51	526-0077	6	Washer, Flat (M10)
	220-4298-45	1	230 Stack Length	52	850-2010	6	Washer, Lock (M10)
	220-4298-46	1	285 Stack Length	53	800-2087	6	Screw, Cap - Hex Head
13			Rotor Assembly (Includes Parts Marked *)	54	850-2006	4	Washer, Lock - Spring (M6)
	201-3497-01	1	165 Core Length	55	800-2042	4	Screw, Cap - Hex Head (M6 x 60mm) (165/290 Stack Length)
	201-3497-02	1	190 Core Length		800-2046	4	(M6 x mm) (230-375 Stack Length)
	201-3497-03	1	230 Core Length	56			Stator, Exciter
	201-3497-04	1	285 Core Length		220-4293-05	1	165/190 Stack Length
	201-3497-05	1	335 Core Length		220-4293-06	1	230/375 Stack Length
	201-3497-06	1	375 Core Length	57	526-2100	3	Washer, Flat (M8)
14			*Key	58	850-2008	3	Washer, Lock - Spring (M8)
	515-0298-02	1	165/190 Core Length	59	232-3421	1	Block, Main Terminal
	515-0298-03	1	230-375 Core Length	60	800-2060	3	Screw, Cap - Hex Head (M8 x 1.25 x 35)
15	201-3434-02	1	*Rotor Assembly, Exciter (Includes Parts Marked †) Newage Part Number 210-1037	61	508-1057	1	Grommet
16	357-0091	1	*†Rectifier Assembly, Forward (Includes Diodes)	62	150-2309	1	Bracket, Overspeed Switch
17	357-0092	1	*†Rectifier Assembly, Reverse (Includes Diodes)	63	150-0956	1	Switch, Overspeed
18	358-0135-01	3	*†Diode, Positive (Forward) Includes Lead	64	150-0723	1	Point, Overspeed
19	358-0135-02	3	*†Diode, Negative (Reverse) Includes Lead	65	870-0250	1	Nut, Insulated
20	304-0807	1	*Varistor	66	862-0001	2	Nut, Hex (1/4-20)
21	510-0164	1	*Bearing, Ball	67	853-0013	1	Washer, Lock - ET (1/4")
22	518-0083	1	*Ring, Retaining	68	856-0010	1	Washer, Lock - EIT (3/8")
23	821-2021	2	*Screw, Cap - Locking Head (M5 x 12)	69	800-2088	1	Screw, Cap - Hex Head (M10 x 35mm)
24	509-0266-02	1	Ring, "O"	70	526-0240	1	Washer, Flat (13/32" ID x 1-1/2" OD x 1/8" Thk)
25	231-0325	1	Adapter, Generator (SAE 3)	71	821-2020	4	Screw, Self-Locking - Hex Washer Head (M5 x 10mm)
26			Screw, Cap - Hex Head	72	234-0875-01	1	Cover, End Bell
	800-2091	5	M10 x 56mm	73	232-3462-01	4	Spacer, Cover
	800-2093	1	M10 x 60mm	74	526-2080	4	Washer, Flat (M6)
27	850-2010	6	Washer, Lock - Spring (M10)	75	508-0305-02	1	Edging
28	720-1119	8	Screw, Cap - Hex Head (M16 x 40)				
29	232-3699	3	Disc, Generator Drive (SAE 11.5)				

* - Parts Included in the Rotor Assembly.

† - Parts Included in the Exciter Rotor Assembly.

Generator
QSEA, QSFA



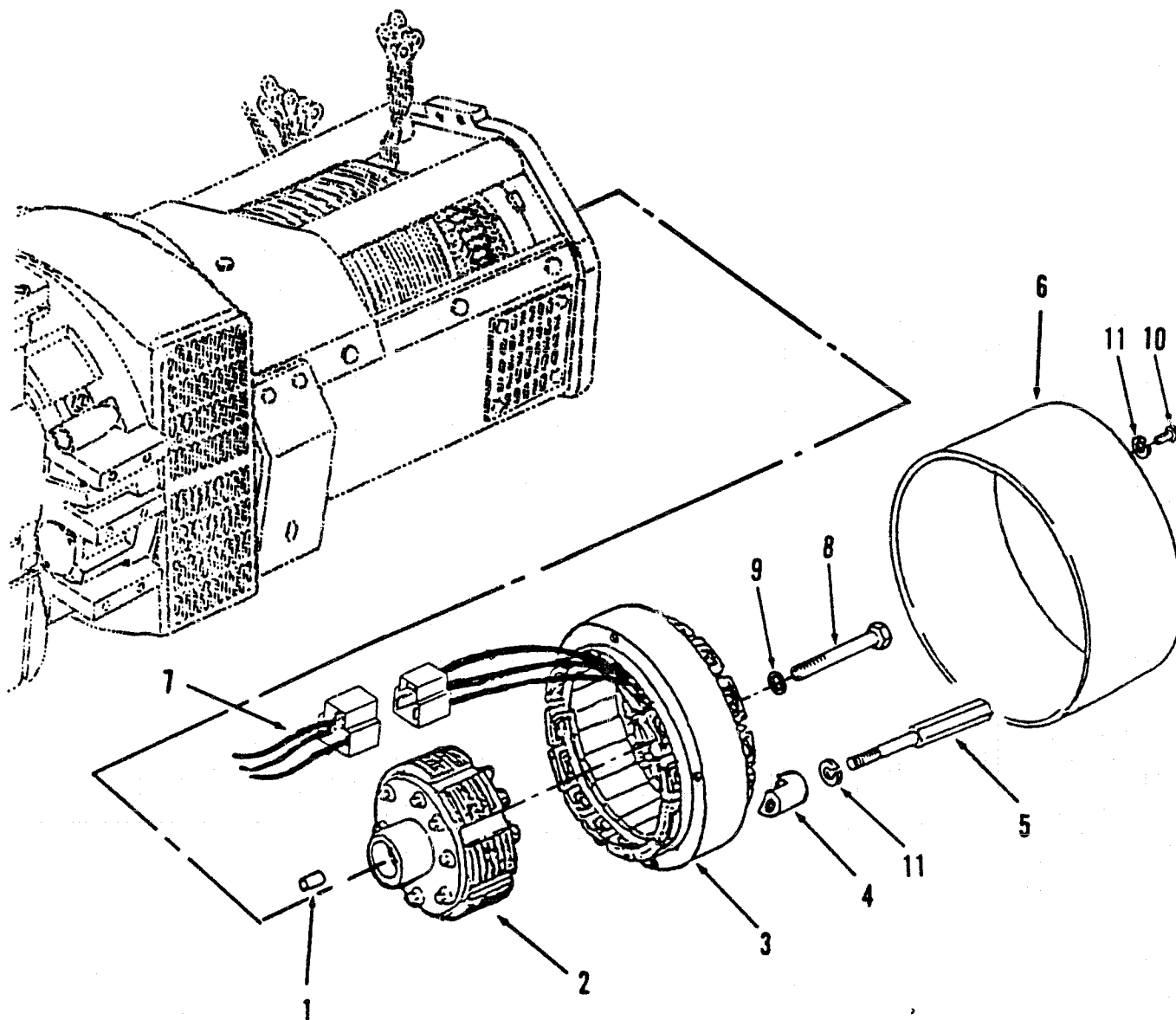
Generator QSEA, QSFA

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	805-0015	8	Bolt, Place (3/8-16 x 3/4")	36	800-2112	10	Screw, Cap - Hex Head (M12 x 30)
2	800-2088	12	Screw, Cap - Hex Head (M10x1.5 x 35mm)	37	850-2012	10	Washer, Lock - Spring (M12)
3	800-2112	8	Screw, Cap - Hex Head (M12 x 30mm)	38	526-2140	10	Washer, Flat (M12)
4	850-2010	12	Washer, Lock - Spring (M10)	41	517-0135	1	Plug
5	850-2012	8	Washer, Lock - Spring (M12)	42	526-0077	6	Washer, Flat (M10)
6	526-0174	8	Washer, Flat (M12)	43	800-2087	6	Screw, Cap - Hex Head (M10 x 30mm)
7	403-3119-01	2	Bracket, Mounting - Generator	44	850-2010	6	Washer, Lock - Spring (M10)
12			Stator Assembly, Generator	45	234-0867	2	Guard, Fan
			190 to 480 Volt -	46	234-0879	2	Screen, Inlet - Air
			50 or 60 Hertz	47	821-2020	8	Screw, Cap - Locking Head (M5 x 10mm)
	220-4298-34	1	285 Stack Length	48	815-0793-03	8	Screw, Cap - Locking Head (M5 x 12mm)
	220-4298-35	1	335 Stack Length				
			380 Volt Only -	49	850-2005	8	Washer, Lock - Spring (M5)
			60 Hertz	50	211-0423	1	Bell, End
	220-4298-40	1	285 Stack Length	51	526-0077	6	Washer, Flat (M10)
	220-4298-41	1	335 Stack Length	52	850-2010	6	Washer, Lock (M10)
			600 Volt Only -	53	800-2087	6	Screw, Cap - Hex Head (M10 x 30mm)
			60 Hertz	54	850-2006	4	Washer, Lock - Spring (M6)
	220-4298-46	1	285 Stack Length	55	800-2046	4	Screw, Cap - Hex Head (M6 x 60mm)
	220-4298-47	1	335 Stack Length	56	220-4293-06	1	Stator, Exciter (Newage Part No. 330-0100)
13			Rotor Assembly	57	526-2100	3	Washer, Flat (M8)
	201-3485-04	1	(285 Stack Length)	58	850-2008	3	Washer, Lock - Spring (M8)
	201-3497-04	1	(335 Stack Length)	59	232-3421	1	Block, Terminal - Main
14	515-0298-03		*Key	60	800-2060	3	Screw, Cap - Hex Head (M8 x 1.25 x 35mm)
15	201-3434-03		*Rotor Assembly, Exciter (Includes Parts Marked ¶)	61	508-1057	1	Grommet
16	357-0091	1	*¶Rectifier Assembly, Forward (Includes Diodes)	62	150-2309	1	Bracket, Switch - Overspeed
17	357-0092	1	*¶Rectifier Assembly, Reverse (Includes Diodes)	63	150-0956	1	Switch, Overspeed
18	358-0135-01	3	*¶Diode, Positive (Forward) Includes Lead	64	150-0723	1	Point, Overspeed
19	358-0135-02	3	*¶Diode, Negative (Reverse) Includes Lead	65	870-0250	1	Nut, Insulated
20	304-0807	1	*Varistor	66	862-0001	2	Nut, Hex (1/4-20)
21	510-0164	1	*Bearing, Ball	67	853-0013	1	Washer, Lock - ET (1/4")
22	518-0083	1	*Ring, Retaining	68	856-0010	1	Washer, Lock - EIT (3/8")
23	821-2021	2	*Screw, Cap - Locking Head (M5 x 12)	69	800-2088	1	Screw, Cap - Hex Head
24	509-0266-02	1	Ring, "O"	70	526-0240	1	Washer, Flat (M10)
25	231-0317	1	Adapter, Generator (SAE 2)	71	821-2020	4	Screw, Self-Locking - Hex Washer Head (M5 x 10mm)
26			Screw, Cap - Hex Head	72	234-0875-01	1	Cover, End Bell
	800-2091	5	M10 x 50mm	73	232-3462-01	4	Spacer, Cover
	800-2093	1	M10 x 60mm	74	526-2080	4	Washer, Flat (M6)
27	850-2010	6	Washer, Lock - Spring (M10)	75	332-2987	4	Link, Terminal
28	720-1119	8	Screw, Cap - Hex Head (M16 x 40mm)	76	526-2120	8	Washer, Flat (M10)
29	232-3699	3	Disc, Generator Drive (SAE 11.5)	77	850-2010	8	Washer, Lock (M10)
31	526-0259	8	Washer, Flat (M16)	78	860-2009	8	Nut, Hex (M10 x 1.5)
32	231-0319	1	Ring, Adapter	79	508-0305-02	1	Edging
33	508-0139	-	Seal, Edging (Order by the Foot - 3 Feet Required)				
34			Cover, Stator - Upper				
	234-0937-02	1	(230/285 Stack Length)				
	234-0937-03	1	(335 Stack Length)				
35			Cover, Stator - Lower				
	232-3820-02	1	(230/285 Stack Length)				
	232-3820-03	1	(335 Stack Length)				

* - Parts Included in the Rotor Assembly.

¶ - Parts Included in the Exciter Rotor Assembly.

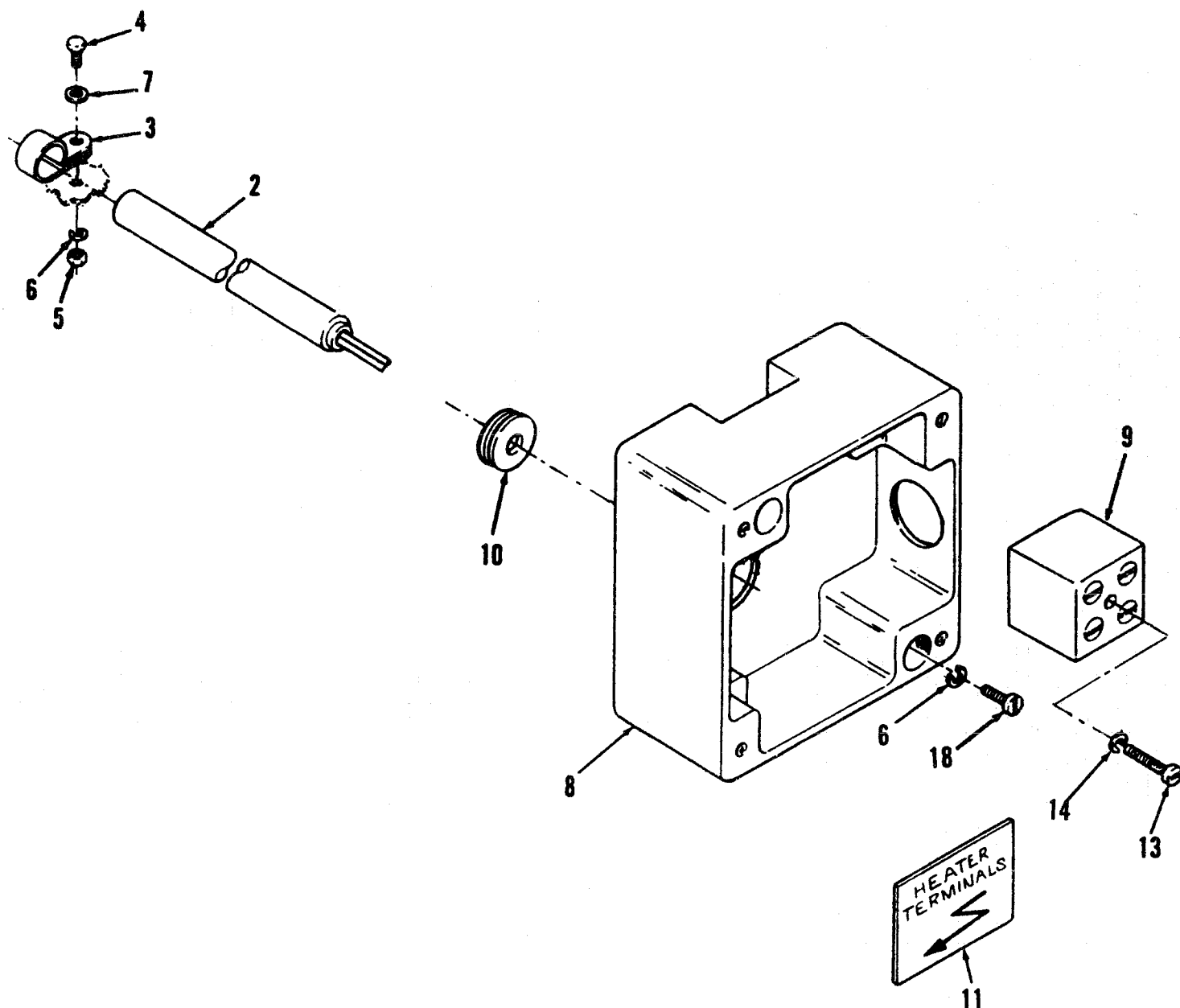
Permanent Magnet Exciter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	775-0049	1	Pin, Dowel
2	201-3446	1	Rotor, Exciter
3	220-4233	1	Stator, Exciter
4	232-3511	4	Clamp, Stator
5	232-3462-02	4	Spacer, Mounting - Corner
6	234-0875-02	1	Cover, Bell - End

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	338-2508	1	Harness, Wiring - PMG
8	815-0761-01	1	Bolt (M10 x 110mm)
9	850-2010	1	Washer, Lock - Spring
10	821-2020	4	Screw, Locking - Hex Head Flange (M5 x 10mm)
11	850-2006	4	Washer, Lock (M6)

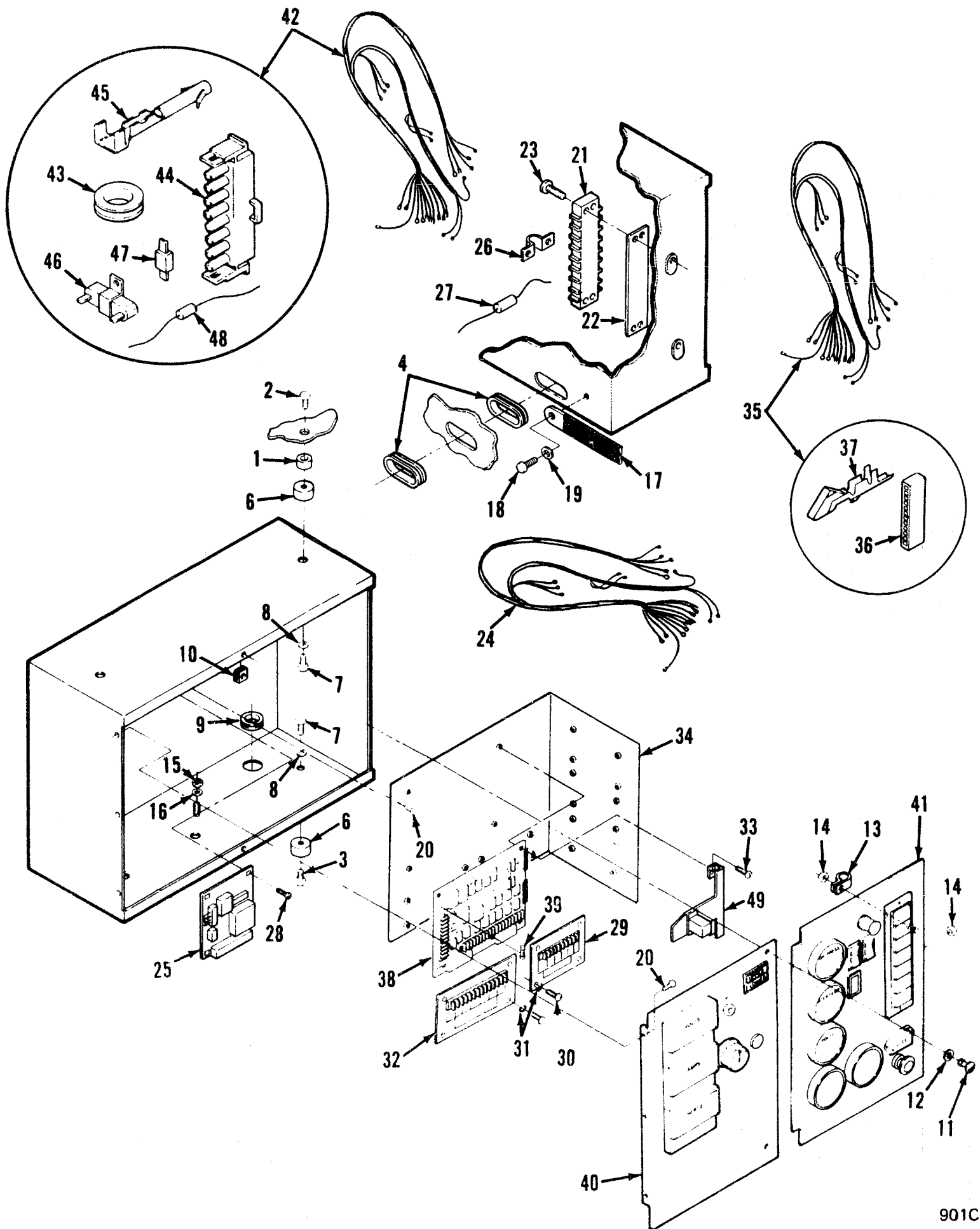
Generator Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	333-0438-07	1	Cartridge, Heater 120 Volt
	333-0438-08	1	240 Volt
3	332-3024-11	2	Clamp, Loop
4	822-3075	4	Screw, Pan Head (M4 x 16mm)
5	860-2005	2	Nut, Hex (M4)
6	850-2004	4	Washer, Lock - Spring (M4)
7	526-2050	2	Washer, Flat (M4)
8	330-0142	1	Terminal, Box - Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	332-3023	1	Block, Terminal (Newage Part No.003-14010)
10	508-0228	1	Grommet
11	098-6142	1	Label, Heater Adjust
13	822-3047	1	Screw, Pan Head (M3 x 20mm)
14	850-2003	1	Washer, Lock - Spring (M3)
18	815-0792-04	2	Screw, Pan - Cross Head (M4 x 12mm)

Control

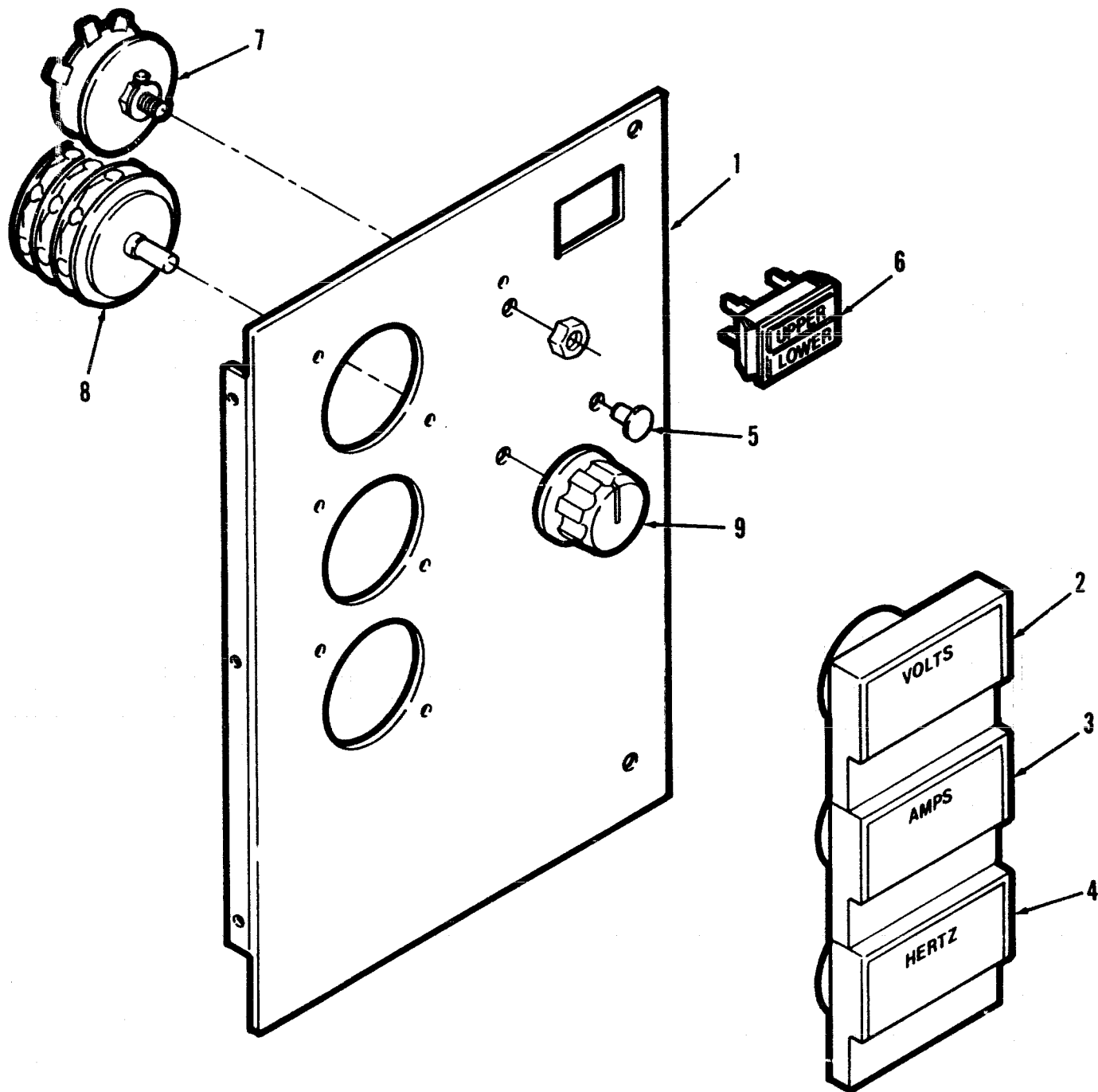


901C

Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-1541	2	Spacer	30	812-0063	8	Screw, Machine - Round Head (#6-32 x 1/2")
2	821-0021	2	Screw, Self-Locking - Hex Washer Head (5/16-18 x 1/2")	31	853-0003	8	Washer, Lock - ET (#6)
3	821-0014	2	Screw, Self-Locking - Hex Washer Head (5/16-18 x 1")	32	300-2863	1	Board, Printed Circuit - Alarm Relay (A13)
4	508-1078	1	Grommet (2" Hole)	33	815-0544	4	Screw, Machine - Round Head - Cross Recessed With IT (#6-32 x 1/2")
6	402-0527	4	Isolator, Vibration	34	301-8851	1	Bracket, Mounting
7	800-0045	4	Screw, Cap - Hex Head (5/16-18 x 3/8")	35	338-2277	1	Harness, Wiring - DC (Includes Connector Housing and Contact Pins) (DC Door Assembly to Engine Monitor)
8	850-0045	4	Washer, Lock - Spring (5/16")	36	323-1308	1	Housing, Connector - 12 Place (J4)
9	508-0001	1	Grommet (1-1/16" Hole)	37	323-1302	12	Pin, Contact
10	406-0332	2	Receptacle, Fastener	38			Monitor, Engine (Includes Fuses) (A11)
11	406-0333	2	Stud, Fastener		300-2810	1	7 Light Control
12	406-0334	2	Washer, Stud Retainer		300-2812	1	12 Light Control
13	332-0052	2	Clip, Wire	39	321-0270	2	Fuse
14	870-0131	3	Nut, Hex - With ET (#10-32)		321-0231	1	20 Amp (F1, F2)
15	871-0015	1	Nut, Hex (1/4-20) Grounding Stud		321-0094	2	15 Amp (F3)
16	853-0013	1	Washer, Lock - ET (1/4") Grounding Stud	40	-	1	5 Amp (F4, F5)
17	337-1837	1	Strap, Ground				Door Assembly, Control - AC (See Separate Page for Components)
18	800-0024	1	Screw, Cap - Hex Head (5/16-18 x 1/2")	41	-	1	Door Assembly, Control - DC (See Separate Page for Components)
19	856-0008	1	Washer, Lock - EIT (5/16")				Harness, Wiring - Engine to Control (Includes Grommet, Resistor, Rectifier, Diode, Connector Housing and Sockets)
20	821-0004	8	Screw, Self-Locking - Hex Washer Head (#10-32 x 5/16")	42			QSDA, QSDB
21	332-0607	1	Block, Terminal - 12 Place (TB21)		338-2842	1	QSEA, QSFA
22	332-2723	1	Strip, Marker - 12 Place	43	508-0258	1	Grommet (1-1/2" Hole)
23	812-0065	2	Screw, Machine - Round Head (#6-32 x 5/8")	44			Housing, Connector
24	338-3003	1	Harness, Wiring AC Door Assembly to TB21 Terminal Block (Includes TB21 Terminal Block)		323-1304	1	6 Place (J2)
	338-1835	1	Alarm Relay (8 Wire) (A13 to A11TB1 and TB2)		323-1306	1	8 Place (J1)
	338-1836	1	Alarm Relay (5 Wire) (A14 to A11TB2)	45	323-1200	11	Socket, Female
25	305-0824	1	Board, Voltage Regulator (VR21) (Also available from Newage as part number E000-24030)	46	353-0094-01	1	Resistor (R1)
26	332-1043	1	Jumper, Terminal (TB21-22 to 21)	47	357-0030	1	Rectifier (CR1)
27			Resistor	48	359-0051	1	Diode (CR2)
	350-1222	1	(TB21-32 to 26)	49	-	1	Relay, Run (See Separate Page for Components)
	350-1224	1	(TB21-24 to 22)	50	332-1571	1	Terminal, Tab Adapter - 60QSG (Not Illustrated)
28	815-0540	4	Screw, Machine - Round Head - Cross Recessed With IT (#8-32 x 1")	51	350-1224	1	Resistor - 60 QSG (Not Illustrated)
29	300-2856	1	Board, Printed Circuit - Alarm Relay (A14)				

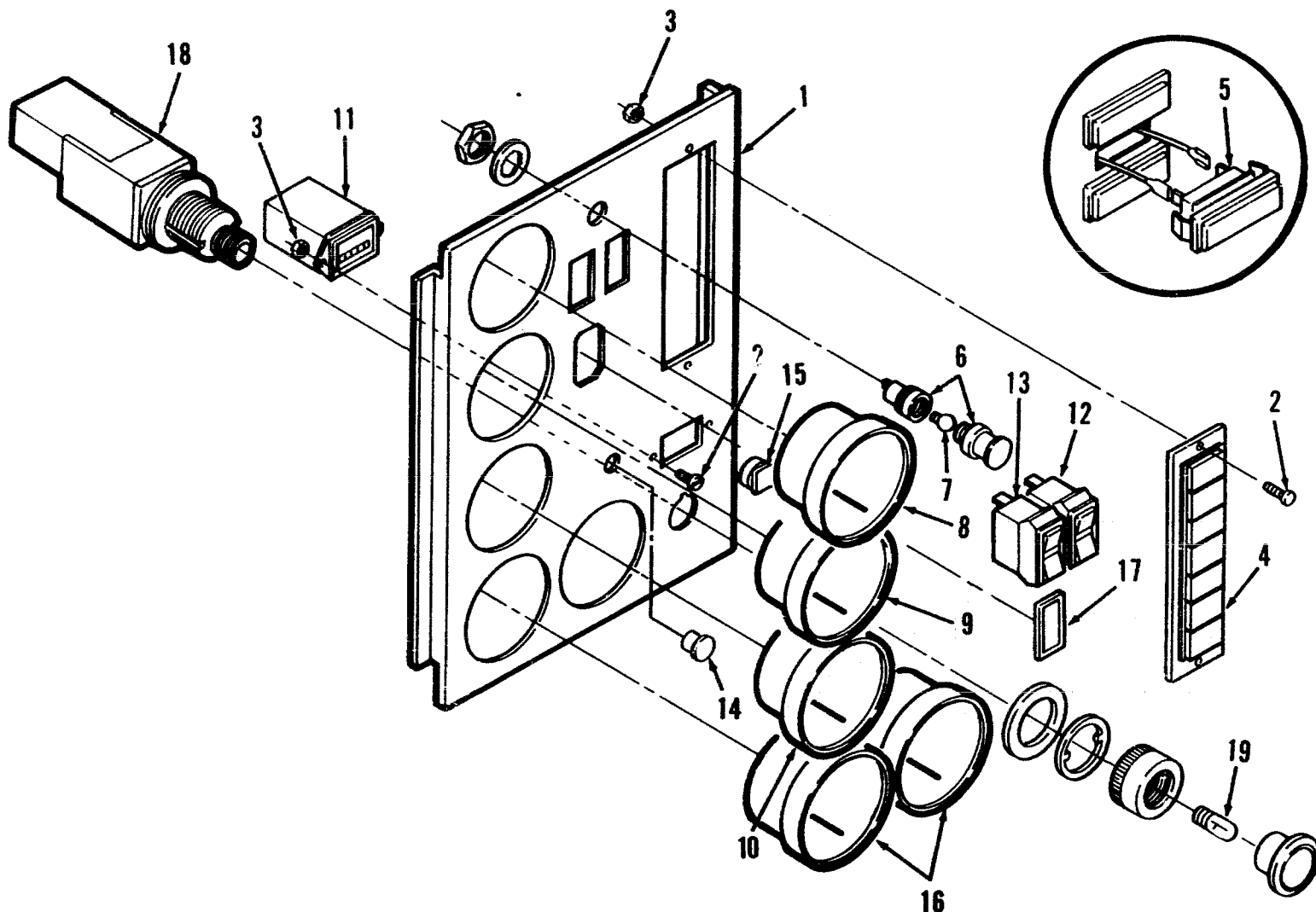
AC Control Door Assembly



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9054-03	1	Door, Control - AC Without Meters
	301-9054-02	1	With Three Meters
2	302-1148	1	Voltmeter (M21) 0-300/600
	302-1753	1	0-750
3	302-1147	1	Ammeter (M22) 0-75/150
	302-1683	1	0-100/200
	302-1684	1	0-150/300
4	517-0131	1	Plug, Hole (3/8" Hole)

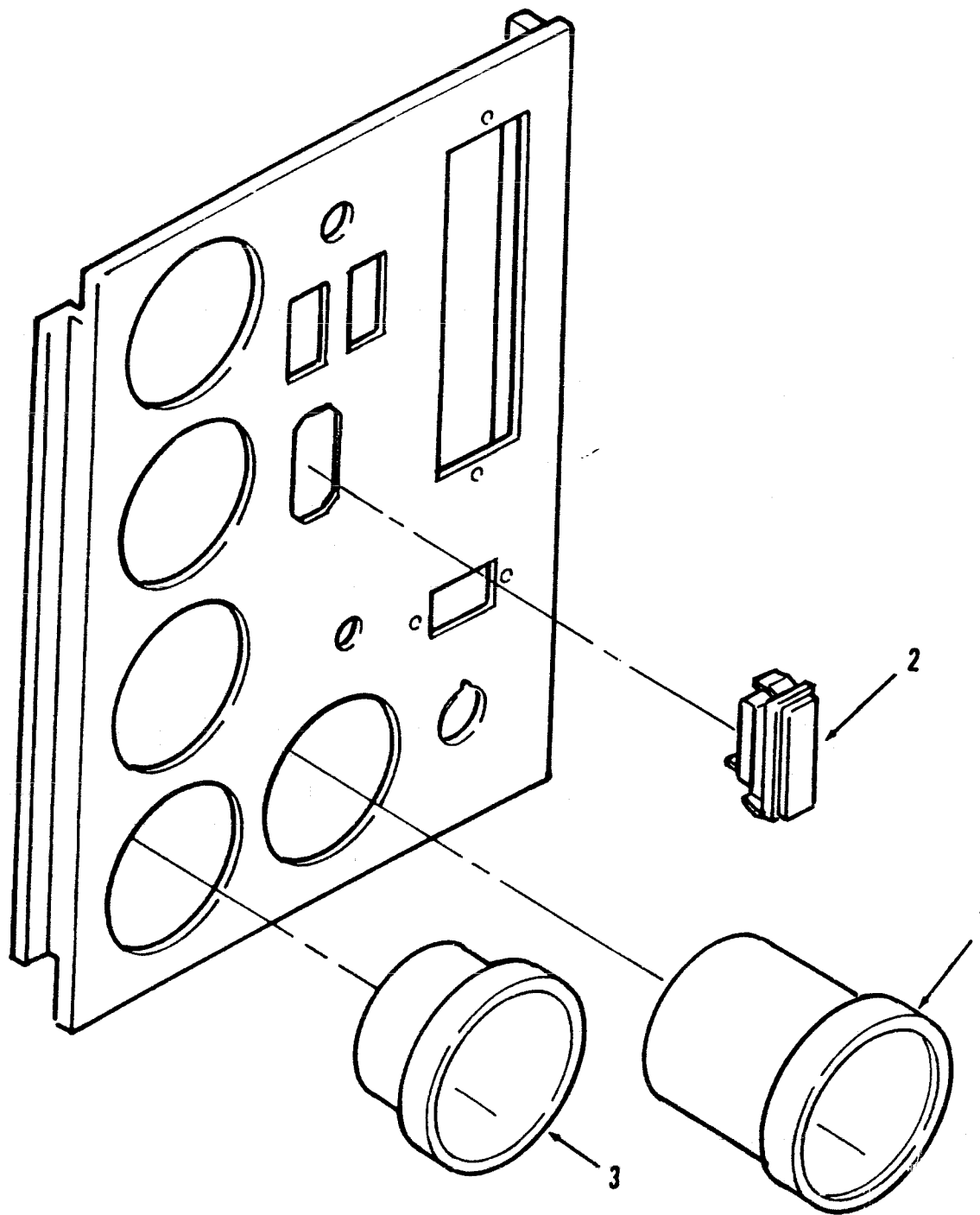
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	302-1720	1	Meter, Frequency (M23) Spec A-C
	302-1968	1	Spec D
6	322-0363	1	Light, Indicator - Upper/Lower Scale (DS21, DS22)
7	303-0261	1	Potentiometer (R21)
8	308-0882	1	Switch, Rotary - Voltmeter/Ammeter (Knob Not Included) (S21)
9	303-0032	1	Knob, Rotary Switch

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	308-0892	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

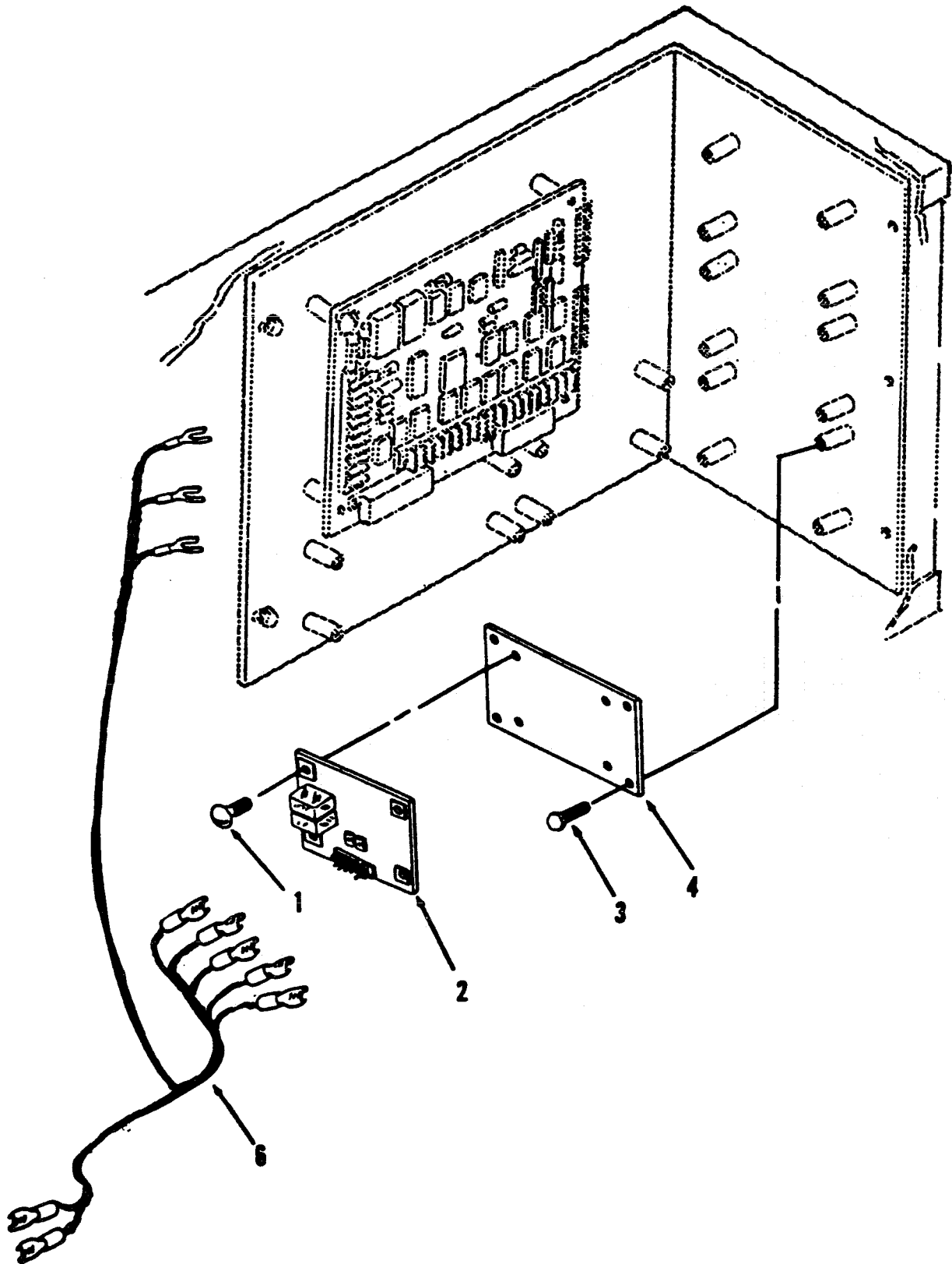
Tachometer



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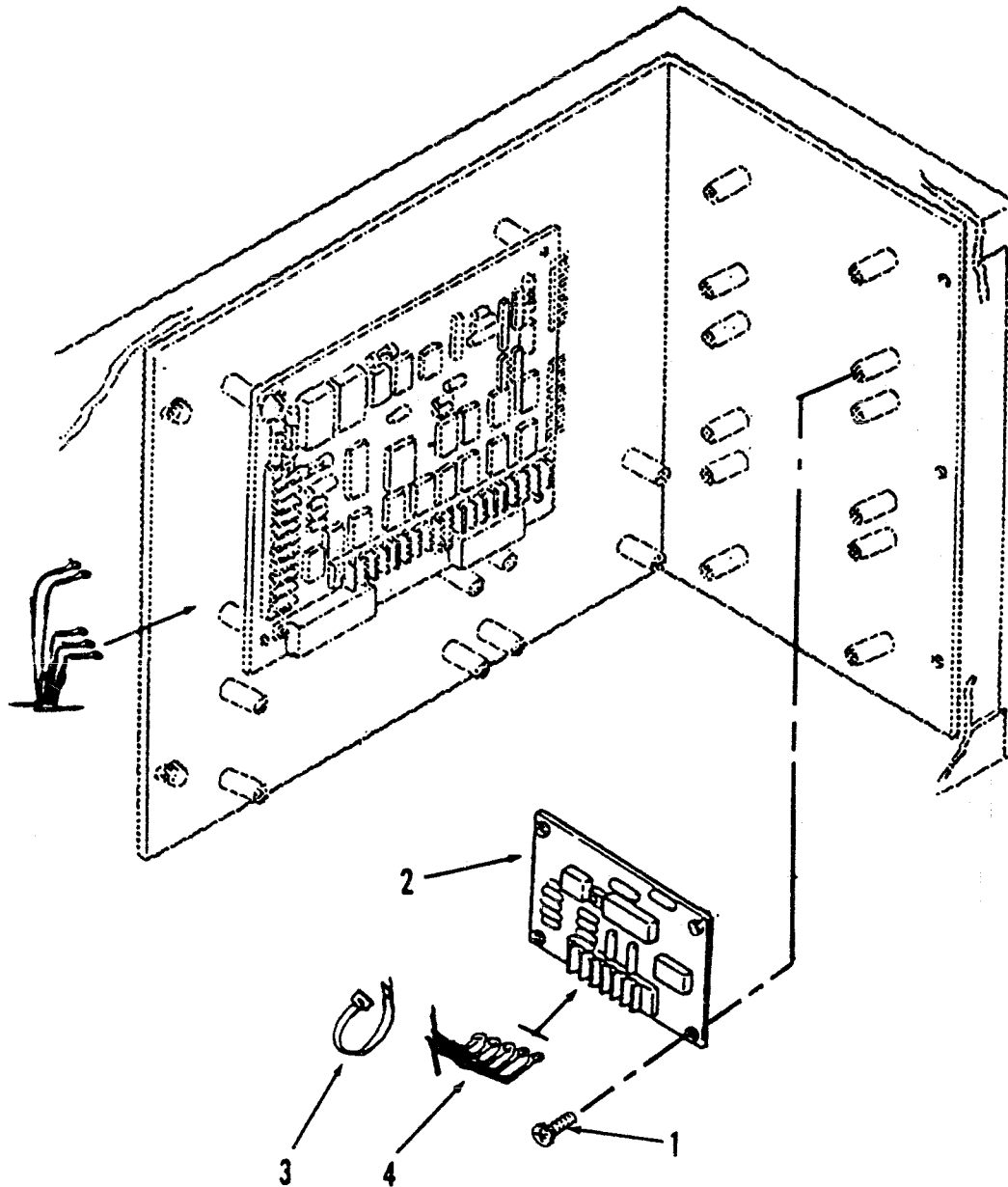
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1873-01	1	Tachometer (0-4000 RPM) (M16)	3	302-1723	1	Ammeter, Blank Scale
2	301-6257	1	Blank, Switch				

Electronic Overspeed Module



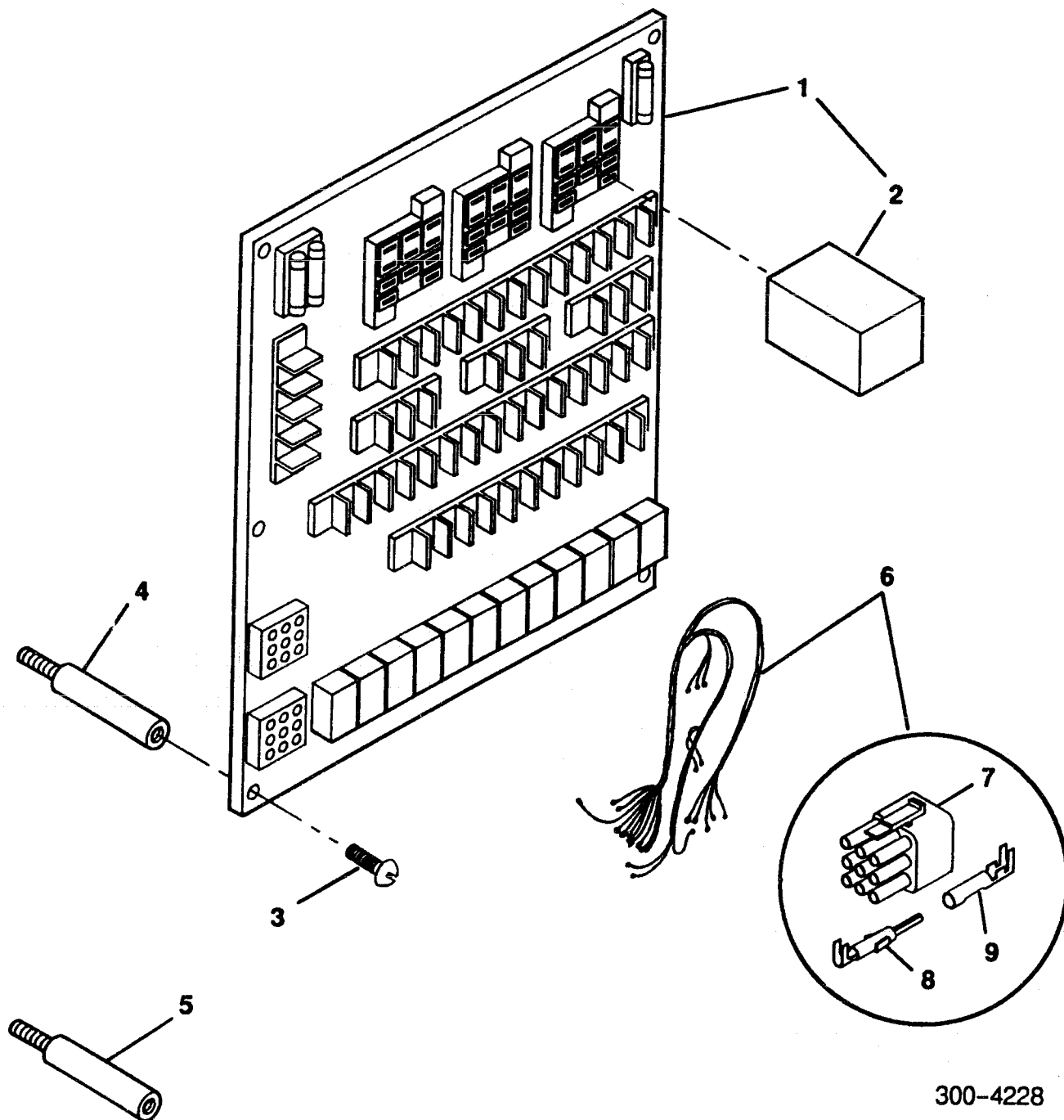
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	812-0084	4	Screw, Machine - Round Head (#8-32 x 1/2")	4	319-0754	1	Lockwasher (#6-32 x 1/2")
2	305-0818-02	1	Module, Overspeed - 24 VDC (Frequency Detection Module)				Plate, Mounting - Overspeed Module
3	815-0544	4	Screw, Cap - Hex Head with ET	6	338-2493	1	Harness, Wiring (A16 to A11 and AUX-P2,P3)

Time Delay Start/Stop Module



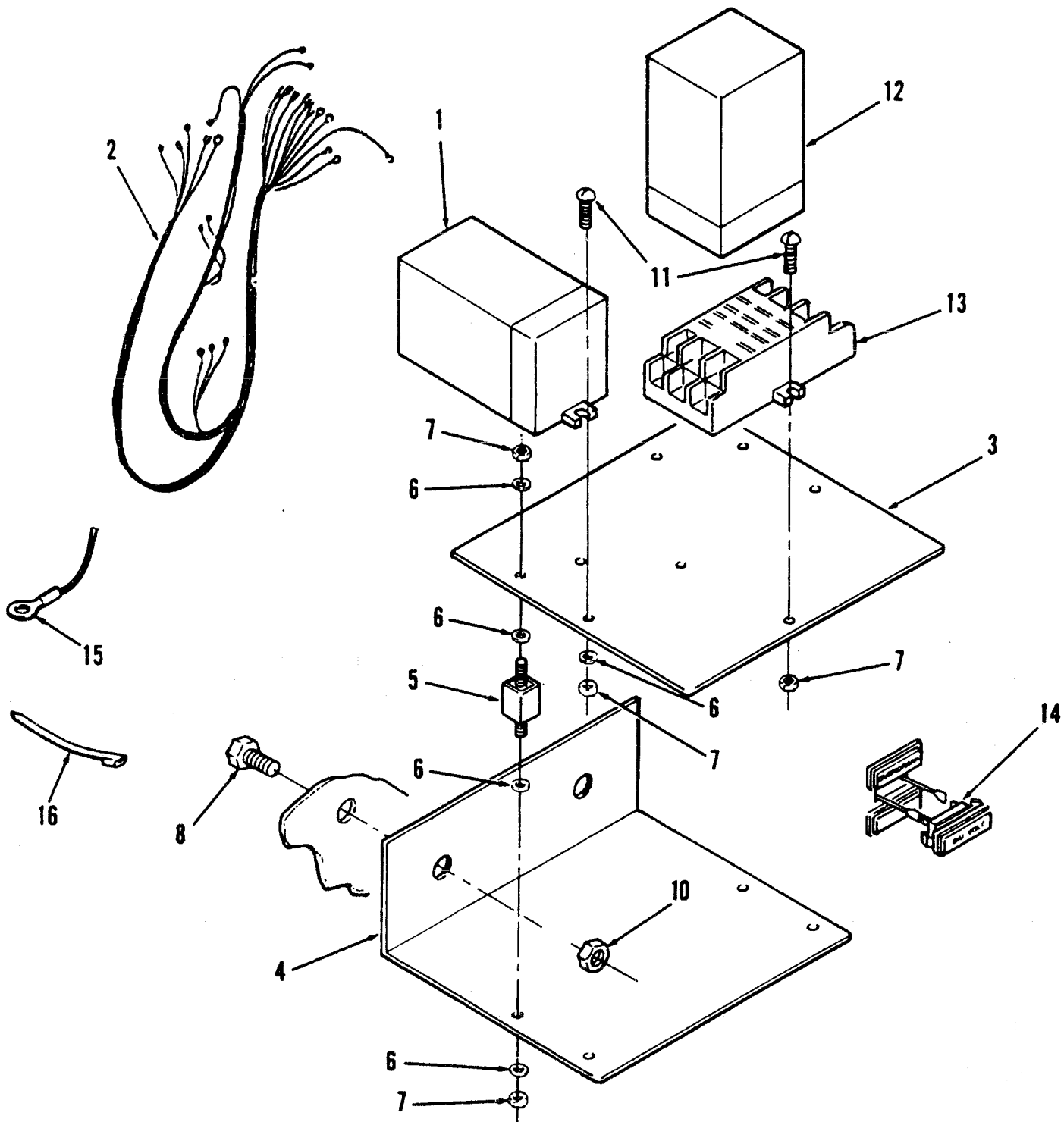
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0544	4	Screw, Machine - Round Head Cross-Recessed w/IT Lock- Washer (#6-32 x 1/2")	3	332-1445	3	Tie, Cable
2	300-2899	1	Module, Start/Stop - Time Delay 24VDC (A15)(5 Relays)	4	338-1904	1	Harness, Wiring (A5-A11)

Alarm Relay



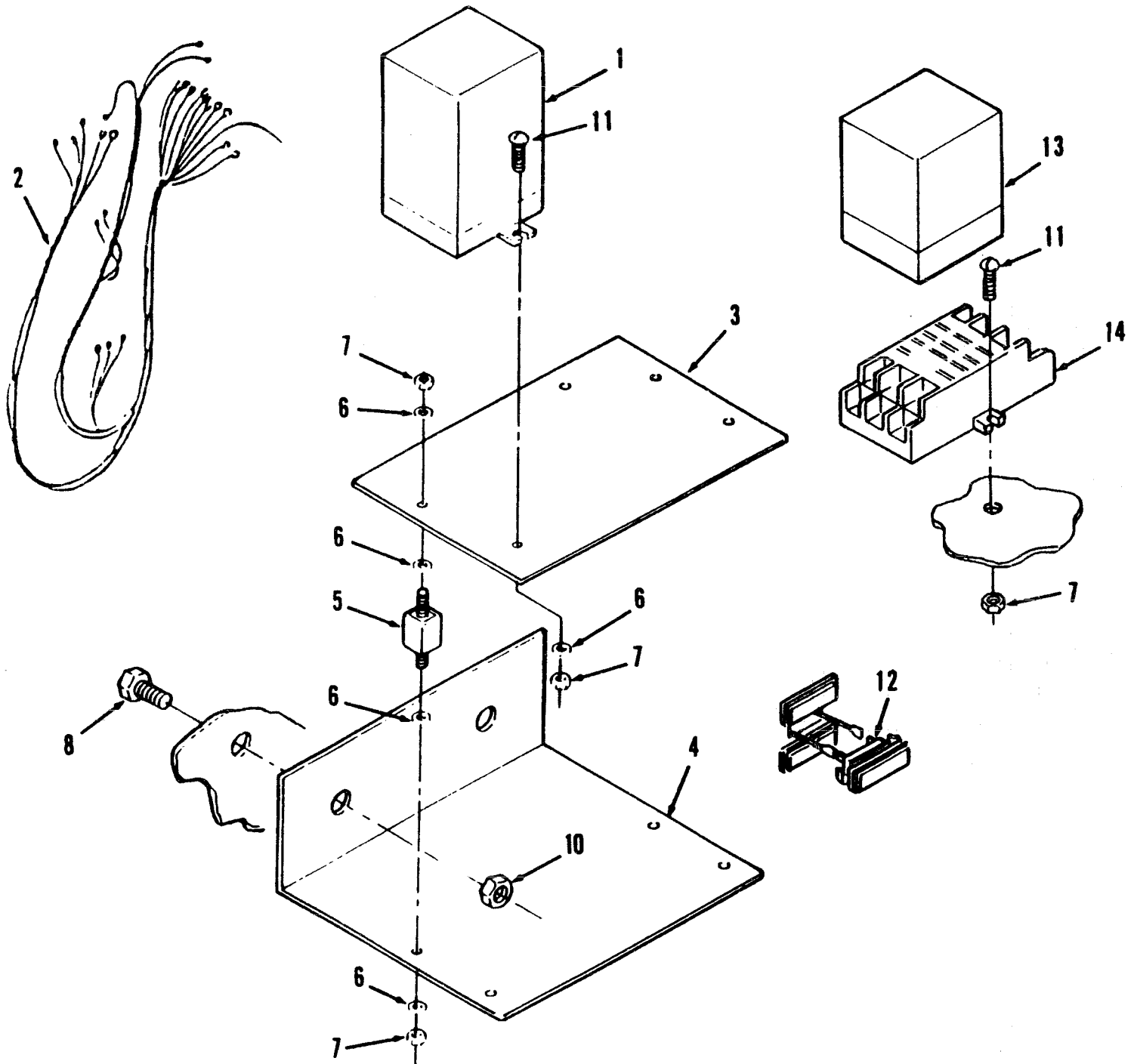
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Alarm Relay (Form C) (Includes Relay)	4	870-0517-02	2	Standoff, Alarm Board (2"- Yellow)
	300-4111-02	1	W/O Form C Relays	5	870-0517-01	4	Standoff, Alarm Board (1 7/8") Clear)
	300-4111-04	1	W/Form C Relays	6	338-2875	1	Harness, Wiring - Form C Board
2	307-1056	1	Relay (K1, K2, K3)(Qty use as required)	7	323-1291	2	Plug, 9 Pin
3	815-0544	6	Screw, Machine - Round Head Cross-Recessed W/IT (#6-32 x .50")	8	323-1199	9	Pin, Contact
				9	323-1200	8	Socket, Contact

Over/Under Voltage Relay



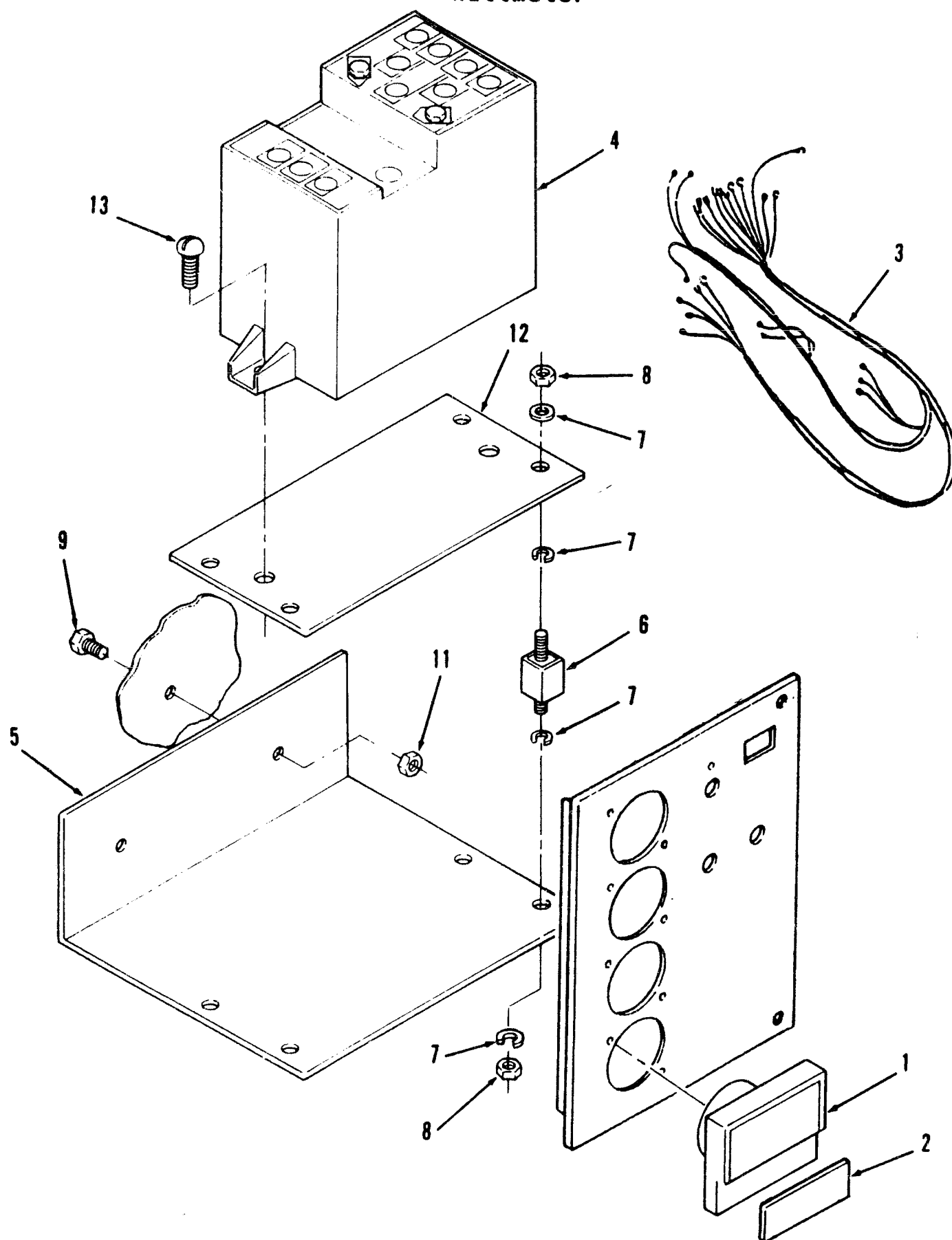
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2552	1	Relay, Voltage - Over/Under (120VAC) (A17)	10	870-0257	2	Nut, Self-Lock Hex (5/16-18)
2	338-2123	1	Harness, Wiring - Over/Under Voltage	11	812-0082	4	Screw, Machine - Round Head (#8-32 x 3/4")
3	301-9933	1	Plate, Mounting - Relay	12	307-1911	1	Relay, Delay - Time (.1 to 10 Seconds) (K17)
4	301-6987	1	Bracket, Mounting - Relay	13	323-0804	1	Socket, Relay
5	402-0354	4	Mount, Shock	14	322-0384-09	1	Light, Indicator - "O/U Volt"
6	856-0002	18	Washer, Lock - EIT (#8)	15	332-0898	1	Terminal, Ring
7	860-0008	12	Nut, Hex (#8-32)	16	332-0942	3	Tie, Cable
8	821-0017	2	Screw, Cap - Self-Locking (5/16-18 x 1/2")				

Over/Under Frequency Relay



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Relay, Frequency - Over/Under (A18)	8	821-0017	2	Screw, Locking - Hex Washer Head (5/16-18 x 1/2")
	307-2553	1	50 Hertz Sets	10	870-0257	2	Nut, Self-Lock Hex (5/16-18)
	307-2709	1	60 Hertz Sets	11			Screw, Machine - Round Head (#6-32 x 3/4")
2			Harness, Wiring - Over/Under Frequency		812-0082	2	Without K17 Time Delay Relay
	338-2124	1	Without K17 Time Delay Relay		812-0082	4	With K17 Time Delay Relay
	338-2409	1	With K17 Time Delay Relay	12	322-0384-10	1	Light, Indicator - Marked "O/U FREQ"
3			Plate, Mounting	13	307-1911	1	Relay, Time Delay (.1 to 10 Seconds)(K17) (Not used on all models)
	301-9941	1	Without K17 Time Delay Relay				
	301-9933	1	With K17 Time Delay Relay				
4	301-6987	1	Bracket, Mounting	14	323-0804	1	Socket, Relay (Not used on all models)
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				

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
	302-1721-03	1	0-70 KW Rating	7	856-0002	16	Washer, Lock - E1 (#8)
	302-1721-04	1	0-90 KW Rating	8	860-0008	8	Nut, Hex (#8-32)
	302-1721-05	1	0-115 KW Rating	9	821-0017	2	Screw, Locking - Hex Washer Head (5/16-18 x 1/2")
	302-1721-06	1	0-160 KW Rating	11	870-0257	2	Nut, Self-Lock Hex (5/16-18)
	302-1721-08	1	0-200 KW Rating	12	319-0030	1	Plate, Mounting
3			Harness, Wiring - Wattmeter	13	813-0102	2	Screw, Machine - Round Head (#10-32 x 5/8")
	338-2478	1	120/240 Volt Single Phase				
	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				

Numerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
098-2304	43	130-3918	27	155-2353	29	220-4298-31	47
098-3232	37	130-3929	27	155-2560	26	220-4298-32	47
098-6142	51	130-3984	27	155-2561	26	220-4298-33	47
098-6497	41	130-4208	31	155-2563	26	220-4298-34	47
098-6498	41	130-4210	31	155-2564	26	220-4298-34	49
102-1237	11	140-0840	23	155-2565	26	220-4298-35	47
102-1237	9	140-1260	18	155-2567	26	220-4298-35	49
102-1356	11	140-1260	19	155-2568	26	220-4298-36	47
102-1356	9	140-1467	18	155-2570	26	220-4298-37	47
121-0096	6	140-1548	18	155-2571	26	220-4298-38	47
121-0097	6	140-1548	19	155-2734	26	220-4298-39	47
121-0100	6	140-1599	18	155-2736	26	220-4298-40	47
121-0101	6	140-1973	19	155-2776	26	220-4298-40	49
128-0119	33	140-2148	18	159-1208	21	220-4298-41	49
128-0123	31	140-2150	18	159-1237	21	220-4298-43	47
128-0137-01	31	140-2241	19	159-1259	21	220-4298-44	47
128-0137-02	31	140-2252	19	159-1280	21	220-4298-45	47
128-0137-03	31	140-2617-01	18	159-1283	21	220-4298-46	47
128-0137-04	31	140-2617-01	19	191-1541	53	220-4298-46	49
128-0138	31	140-2618-01	19	191-1981	12	220-4298-47	49
128-0139	31	140-2623-01	18	191-1983-02	12	226-3376	43
128-0140	31	140-2631	19	191-2038	13	226-4114	6
128-0143	31	140-2759	18	191-2103	13	226-4386	39
128-0144	31	140-2760	19	193-0244	11	226-4386	39
128-0145	31	140-2795	18	193-0244	9	226-4578	41
128-0146	31	140-2796	19	193-0250	55	226-4579	43
128-0147	31	140-2797-01	18	193-0322	28	231-0317	49
128-0149	31	147-0815	23	193-0351	55	231-0319	47
128-0151	31	149-2309	15	193-0352	55	231-0319	49
128-0195	33	150-0723	47	193-0353	11	231-0325	47
128-0197	45	150-0723	49	193-0353	9	232-3421	47
128-0198	45	150-0956	47	193-0375	11	232-3421	49
128-0199	45	150-0956	49	193-0375	9	232-3462-01	47
128-0201	33	150-2007	17	201-3434-02	47	232-3462-01	49
128-0202	33	150-2201	17	201-3434-03	49	232-3462-02	50
128-0203	33	150-2203	17	201-3446	50	232-3511	50
128-0204	33	150-2218-03	17	201-3485-04	49	232-3542	36
128-0205	33	150-2237	17	201-3497-01	47	232-3640	35
130-1107	37	150-2238	17	201-3497-02	47	232-3699	47
130-3415	27	150-2251	17	201-3497-03	47	232-3699	49
130-3416	31	150-2309	47	201-3497-04	47	232-3820-01	47
130-3605	27	150-2309	49	201-3497-04	49	232-3820-02	49
130-3885	31	150-2546	9	201-3497-05	47	234-0867	47
130-3889-01	31	150-2578	15	201-3497-06	47	234-0867	49
130-3889-01	31	151-0611	17	211-0423	47	234-0875-01	47
130-3889-02	31	151-0612	17	211-0423	49	234-0875-01	49
130-3891	27	151-0715-02	15	220-4233	50	234-0875-02	50
130-3893	27	151-2331-01	15	220-4293-05	47	234-0879	47
130-3900	11	154-2903	29	220-4293-06	47	234-0879	49
130-3913	9	155-2062-06	26	220-4293-06	49	234-0937-01	47

Numerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
234-0937-02	47	302-1868-05	44	319-1385	39	320-1491-08	43
234-0937-02	49	302-1868-06	44	319-1398	39	320-1491-09	43
234-0937-03	47	302-1868-07	44	319-1417	39	320-1491-10	43
234-0937-03	49	302-1868-08	44	319-1418	33	320-1492-06	43
234-0937-04	47	302-1873-01	56	319-1439	39	320-1492-07	43
234-3820-02	47	302-1937	44	319-1444	39	320-1492-08	43
234-3820-03	47	302-1968	54	319-1724	33	320-1492-09	43
234-3820-03	49	303-0032	54	319-1727	39	320-1492-10	43
234-3820-04	47	303-0261	54	320-1458-30	43	320-1492-11	43
300-2810	53	304-0807	47	320-1458-31	43	320-1492-12	43
300-2812	53	304-0807	49	320-1458-47	43	320-1513-10	43
300-2856	53	305-0818-02	57	320-1458-48	43	320-1513-11	43
300-2863	53	305-0824	53	320-1459-08	43	320-1513-12	43
300-2899	58	307-1056	59	320-1459-09	43	320-1516-10	43
300-3464	25	307-1911	60	320-1459-10	43	320-1516-11	43
300-4111-02	59	307-1911	61	320-1460-06	43	320-1516-12	43
300-4111-04	59	307-2167	9	320-1460-07	43	320-1522-09	43
301-1886	37	307-2552	60	320-1460-08	43	320-1522-10	43
301-6257	55	307-2553	61	320-1460-09	43	320-1522-11	43
301-6257	56	307-2677-02	25	320-1460-10	43	320-1522-12	43
301-6687	61	307-2709	61	320-1460-11	43	320-1537-09	43
301-6987	60	308-0784	55	320-1460-12	43	320-1537-10	43
301-6987	63	308-0832	25	320-1461-31	43	320-1537-11	43
301-8851	53	308-0853	55	320-1462-30	43	320-1537-12	43
301-9054-02	54	308-0882	54	320-1462-47	43	320-1555-14	43
301-9054-03	54	308-0892	55	320-1462-48	43	320-1555-15	43
301-9055-01	55	308-0912	25	320-1463-08	43	320-1555-16	43
301-9055-02	55	308-0913-08	25	320-1463-09	43	320-1555-17	43
301-9933	60	308-0916	21	320-1463-10	43	320-1555-18	43
301-9933	61	308-0963-01	22	320-1464-06	43	320-1556-14	43
301-9941	61	309-0128	37	320-1464-07	43	320-1556-15	43
302-0885	55	309-0269	11	320-1464-08	43	320-1556-16	43
302-1147	54	309-0269	9	320-1464-09	43	320-1556-17	43
302-1148	54	309-0272	11	320-1464-10	43	320-1556-18	43
302-1642	55	309-0272	9	320-1464-11	43	320-1653	25
302-1683	54	309-0553	11	320-1464-12	43	320-1654	25
302-1684	54	309-0553	9	320-1470-30	43	320-1768	39
302-1720	54	309-0554	11	320-1470-31	43	321-0094	53
302-1721-03	63	309-0554	9	320-1471-08	43	321-0231	53
302-1721-04	63	309-0561	11	320-1471-09	43	321-0270	53
302-1721-05	63	309-0561	9	320-1471-10	43	322-0017	55
302-1721-06	63	319-0030	63	320-1472-06	43	322-0223	55
302-1721-08	63	319-0485	25	320-1472-07	43	322-0359-02	55
302-1722	63	319-0486	25	320-1472-08	43	322-0360-02	55
302-1723	55	319-0754	57	320-1472-09	43	322-0361	55
302-1723	56	319-1210	33	320-1472-10	43	322-0363	54
302-1753	54	319-1210	39	320-1472-11	43	322-0369-02	25
302-1833-01	63	319-1369	33	320-1472-12	43	322-0369-02	55
302-1833-04	63	319-1381	39	320-1490-47	43	322-0384-09	60
302-1833-05	63	319-1384	39	320-1490-48	43	322-0384-10	61

Numerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
322-0403-02	25	338-1836	53	403-3119	47	405-4859	9
322-0413	6	338-1904	58	403-3119-01	49	405-4861	9
323-0804	60	338-1936	63	403-3179	21	405-4903	31
323-0804	61	338-2010	28	403-3197	35	405-4949	33
323-1199	59	338-2123	60	403-3202-01	35	405-4949	39
323-1200	53	338-2124	61	403-3220	36	406-0332	53
323-1200	59	338-2277	53	403-3223	36	406-0333	53
323-1291	59	338-2382	25	403-3242	36	406-0334	53
323-1302	53	338-2409	61	403-3376	21	406-0700	31
323-1304	53	338-2478	63	403-3539	35	406-0700	33
323-1306	53	338-2479	63	405-4175	31	406-0700	41
323-1308	53	338-2493	57	405-4195	31	406-0721	41
330-0142	51	338-2508	50	405-4261	31	410-1033	5
331-0027	25	338-2825	25	405-4331	31	410-1035	5
331-0042	25	338-2842	53	405-4332	31	410-1036	5
332-0052	53	338-2875	59	405-4333	31	410-1052	5
332-0607	53	338-2935	53	405-4340	33	410-1063	6
332-0898	60	338-3003	53	405-4341	33	410-1064	6
332-0942	60	350-1222	53	405-4345	33	410-1082	5
332-1043	53	350-1224	53	405-4353	33	410-1085-01	5
332-1279	17	350-1224	53	405-4356	31	410-1090-01	5
332-1389	27	353-0094-01	53	405-4362	33	410-1098-01	5
332-1445	17	357-0030	53	405-4364	33	410-1107-01	5
332-1445	58	357-0091	47	405-4365	31	410-1124	7
332-1473	35	357-0091	49	405-4366	31	410-1125	7
332-1571	53	357-0092	47	405-4378	26	410-1126	7
332-2605	25	357-0092	49	405-4388	31	410-1131	5
332-2634	11	358-0135-01	47	405-4389	31	410-1134	5
332-2723	53	358-0135-01	49	405-4390	31	415-0565-09	21
332-2738	11	358-0135-02	47	405-4407	33	415-0565-13	21
332-2738	9	358-0135-02	49	405-4428	33	415-0566-13	21
332-2739	11	359-0051	53	405-4429	33	415-0566-17	21
332-2739	9	370-4066	25	405-4535	31	415-0752-02	21
332-2921	9	370-4081	44	405-4541	33	416-0446	11
332-2987	49	399-0117	25	405-4543	33	416-0446	9
332-3023	51	399-0121	25	405-4579	33	416-0530	11
332-3024-11	51	399-0122	25	405-4656	23	416-0530	9
332-3135	39	402-0331	5	405-4658	31	416-0896	35
333-0151	37	402-0354	60	405-4819	26	416-0921-01	11
333-0393-01	29	402-0354	61	405-4821-01	45	416-0921-01	9
333-0393-02	29	402-0354	63	405-4835	41	416-0963-02	35
333-0438-07	51	402-0527	53	405-4836	41	416-0973	35
333-0438-08	51	402-0650	35	405-4838-01	41	501-0480-02	11
333-0505-01	29	402-0651	35	405-4839-01	33	501-0502-04	9
333-0505-02	29	403-2567	35	405-4841	33	501-0562-01	21
335-0161	37	403-2690	35	405-4849	31	501-0564	6
337-0090	35	403-2733-01	35	405-4851	26	501-0582	6
337-1837	53	403-3002	35	405-4854	26	502-0028	27
337-2561	39	403-3041-01	35	405-4855	26	502-0029-03	9
338-1835	53	403-3041-02	35	405-4858	11	502-0054	21

Numerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
502-0153	27	505-0025	25	517-0131	54	526-2080	47
502-0153	27	505-0026	21	517-0131	55	526-2080	49
502-0395	27	505-0026	22	517-0135	47	526-2100	47
502-0942	25	505-0026	9	517-0135	49	526-2100	49
502-1103	11	505-0029	11	517-0310	26	526-2120	49
502-1103	9	505-0050	11	517-0310	33	526-2140	15
502-1162	27	505-0050	9	518-0083	47	526-2140	47
502-1185	11	505-0069	22	518-0083	49	526-2140	49
502-1186	9	505-0070	21	518-0350	9	526-2140	9
502-1194	6	505-0098	9	518-0548-08	27	720-1119	47
503-0098	11	505-0151	11	518-0548-24	27	720-1119	49
503-0098	9	505-0151	9	518-0599	6	775-0049	50
503-0098	9	505-0172	21	518-0600	6	800-0005	39
503-0183	25	505-0185	11	526-0008	11	800-0008	17
503-0183	29	505-0185	9	526-0008	17	800-0010	25
503-0189	29	505-1050	21	526-0008	43	800-0024	53
503-0197	11	505-1478	22	526-0008	9	800-0024	6
503-0197	9	508-0001	53	526-0015	35	800-0026	25
503-0276	11	508-0015	11	526-0015	35	800-0026	31
503-0276	27	508-0015	9	526-0016	39	800-0027	31
503-0276	9	508-0021	27	526-0018	31	800-0028	43
503-0304	27	508-0117	35	526-0018	35	800-0030	35
503-0354	27	508-0139	47	526-0022	25	800-0034	37
503-0685	11	508-0139	49	526-0022	43	800-0045	53
503-0685	27	508-0192	45	526-0029	41	800-0051	41
503-0685	27	508-0228	51	526-0030	11	800-0052	5
503-0685	9	508-0258	53	526-0030	9	800-0090	35
503-0731	11	508-0298	6	526-0048	43	800-0091	21
503-0731	9	508-0305-02	18	526-0077	47	800-0091	35
503-1354	19	508-0305-02	19	526-0077	47	800-0091	7
503-1657	11	508-0305-02	44	526-0077	49	800-0092	21
503-1660-06	25	508-0305-02	47	526-0077	49	800-0092	35
503-1792	27	508-0305-02	49	526-0077	5	800-0092	35
503-1793	27	508-1057	47	526-0081	36	800-0092	5
503-1794	27	508-1057	49	526-0100	7	800-0093	35
503-1795	27	508-1072	41	526-0108	43	800-0100	35
503-1796	27	508-1078	53	526-0113	37	800-0103	5
503-1817	45	509-0266-02	47	526-0115	27	800-2011	9
503-1870-02	27	509-0266-02	49	526-0115	31	800-2042	47
503-1870-04	27	510-0164	47	526-0174	47	800-2046	47
503-1870-04	27	510-0164	49	526-0174	49	800-2046	49
503-1870-04	45	510-0169	31	526-0179	17	800-2060	47
503-1870-05	18	510-0170	31	526-0219	21	800-2060	49
503-1870-06	18	510-0171	31	526-0219	21	800-2084	11
503-1870-08	19	511-0180-01	31	526-0219	5	800-2084	9
504-0011	11	511-0180-03	31	526-0240	47	800-2085	11
504-0011	9	515-0249	31	526-0240	49	800-2085	17
505-0018	21	515-0298-02	47	526-0259	47	800-2087	47
505-0021	11	515-0298-03	47	526-0259	49	800-2087	47
505-0021	29	515-0298-03	49	526-2050	51	800-2087	49

Numerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
800-2087	49	815-0385	25	821-0018	31	850-2008	47
800-2088	13	815-0385	55	821-0018	33	850-2008	49
800-2088	47	815-0387	41	821-0018	33	850-2008	9
800-2088	47	815-0540	53	821-0018	35	850-2008	9
800-2088	49	815-0544	53	821-0018	39	850-2010	11
800-2088	49	815-0544	57	821-0018	45	850-2010	13
800-2091	47	815-0544	58	821-0018	9	850-2010	17
800-2091	49	815-0544	59	821-0021	53	850-2010	47
800-2093	47	815-0607	31	821-0029	18	850-2010	47
800-2093	49	815-0607	33	821-0029	19	850-2010	47
800-2110	11	815-0607	41	821-0030	35	850-2010	47
800-2110	15	815-0761-01	50	821-0212	9	850-2010	47
800-2110	17	815-0792-04	51	821-2020	47	850-2010	49
800-2110	9	815-0793-03	47	821-2020	47	850-2010	49
800-2111	35	815-0793-03	49	821-2020	49	850-2010	49
800-2112	47	815-0794	11	821-2020	49	850-2010	49
800-2112	47	815-0805	39	821-2020	50	850-2010	49
800-2112	49	815-0806	33	821-2021	47	850-2010	50
800-2112	49	816-0099	35	821-2021	49	850-2010	9
800-2115	44	818-0217	21	822-3047	51	850-2012	11
800-2121	35	818-0217-02	18	850-0025	43	850-2012	11
800-2124	35	818-0217-02	23	850-0030	11	850-2012	15
805-0015	47	818-0217-02	26	850-0030	9	850-2012	17
805-0015	49	818-0217-02	31	850-0040	25	850-2012	35
809-0036	11	818-0217-02	33	850-0040	35	850-2012	47
809-0036	9	818-0217-02	39	850-0040	43	850-2012	47
812-0059	39	818-0217-02	45	850-0045	25	850-2012	49
812-0063	53	821-0004	39	850-0045	31	850-2012	49
812-0065	53	821-0004	53	850-0045	35	850-2012	9
812-0070	37	821-0005	15	850-0045	43	851-0027	39
812-0075	25	821-0005	26	850-0045	53	851-0028	39
812-0082	60	821-0005	44	850-0045	6	853-0003	53
812-0082	61	821-0010	41	850-0050	41	853-0013	45
812-0082	61	821-0011	31	850-0050	5	853-0013	47
812-0084	57	821-0014	45	850-0060	21	853-0013	49
812-0094	43	821-0014	53	850-0060	35	853-0013	53
812-0118	43	821-0015	33	850-0060	5	854-0006	37
812-0157	43	821-0016	18	850-0060	7	856-0002	60
812-0165	43	821-0016	19	850-0109	36	856-0002	61
813-0102	63	821-0016	26	850-2003	51	856-0002	63
813-0103	17	821-0016	31	850-2004	51	856-0006	6
813-0104	7	821-0016	33	850-2005	12	856-0008	35
814-0179	39	821-0016	5	850-2005	47	856-0008	53
814-0181	39	821-0017	60	850-2005	49	856-0010	47
815-0161	41	821-0017	61	850-2005	9	856-0010	49
815-0172	17	821-0017	63	850-2006	47	856-0013	11
815-0236	35	821-0018	21	850-2006	49	856-0013	35
815-0261	6	821-0018	23	850-2006	50	856-0013	9
815-0350	25	821-0018	26	850-2008	11	860-0006	37
815-0364	41	821-0018	27	850-2008	12	860-0008	60

Numerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
860-0008	61	870-0257	61				
860-0008	61	870-0257	63				
860-0008	63	870-0281	18				
860-2005	51	870-0281	19				
860-2006	12	870-0281	35				
860-2006	9	870-0320	7				
860-2008	12	870-0458	25				
860-2008	9	870-0462	26				
860-2009	49	870-0489	33				
860-2009	9	870-0490	35				
862-0001	35	870-0494	33				
862-0001	47	870-0494	45				
862-0001	49	870-0517-01	59				
862-0003	31	870-0517-02	59				
862-0003	41	870-1063	36				
862-0003	5	871-0010	11				
862-0014	39	871-0015	53				
862-0015	31	880-0456	5				
862-0015	35	880-0458	5				
862-0015	43	880-0463	7				
862-0016	35	892-3076	51				
862-0016	5	895-0092	31				
862-0018	36	895-0151	39				
870-0010	9	895-0170	27				
870-0053	17	895-0170	33				
870-0131	17	895-0176	41				
870-0131	33	895-0181	33				
870-0131	41	895-0181	41				
870-0131	44	895-0182	27				
870-0131	53	895-0214	33				
870-0138	26	895-0308	33				
870-0183	37	895-0308	41				
870-0183	55	895-0340	33				
870-0196	11	895-0340	33				
870-0196	9	895-0340	41				
870-0212	17	898-0861	6				
870-0212	31						
870-0212	33						
870-0212	45						
870-0235	31						
870-0235	33						
870-0235	41						
870-0237	33						
870-0250	47						
870-0250	49						
870-0257	21						
870-0257	27						
870-0257	37						
870-0257	39						
870-0257	60						