



**Power
Generation**

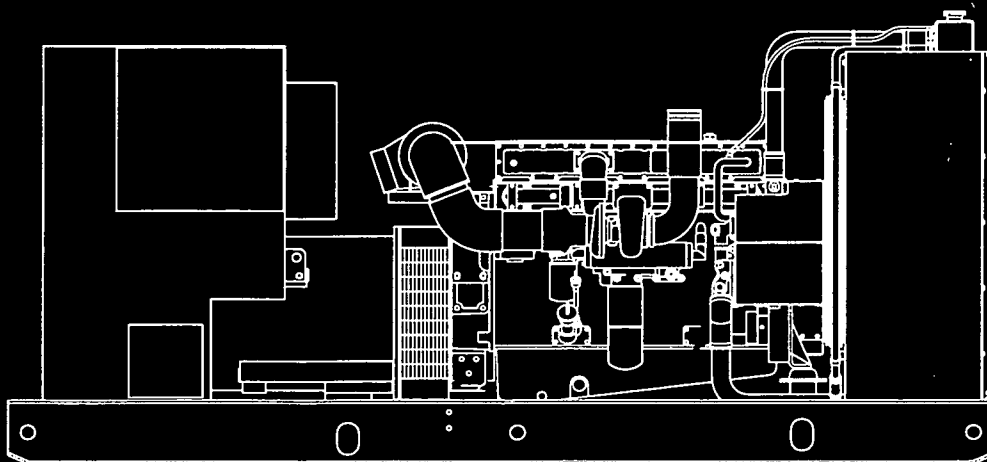
Parts Catalog

Models

DFAB Spec M

DFAC Spec M

GENERATOR SET



MODEL IDENTIFICATION

This catalog covers models produced under the Cummins®/Onan® and Cummins Power Generation brand names.

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

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

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

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



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



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



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

PRODUCT SAFETY PRECAUTIONS



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



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



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



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

Introduction

This catalog applies to Cummins Power Generation Generator Models DFAB and DFAC as listed in the Generator Set Data Table. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Unless otherwise mentioned in the description or page heading, parts are interchangeable between models. Throughout this catalog left and right sides are determined by facing the engine end (front) of the set unless noted in the description column.

Engine parts that have been modified or added by Cummins Power Generation are identified in this catalog. All other engine replacement parts must be ordered from the engine manufacturer by referring to the engine manufacturer's nameplate and supplying all available information. Contact your nearest engine parts distributor for assistance in ordering replacement parts.

Replacement Engine

Cummins Generator Model	Cummins Engine Model
DFAB, DFAC	LTA10-G3

Order from your nearest Cummins distributor.

Generator Set Data Table

Model and Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
200DFAB/*	200,000	#	50	12	3	24VDC
230DFAB/*	230,000	#	60	12	3	24VDC
220DFAC/*	220,000	#	50	12	3	24VDC
250DFAC/*	250,000	#	60	12	3	24VDC

* – The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letter. The specification number denotes customer requested options or deviations from the standard model. The specification letter advances (A to B, B to C, etc.) with major manufacturing changes.

– Broad range reconnectible

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Abbreviations

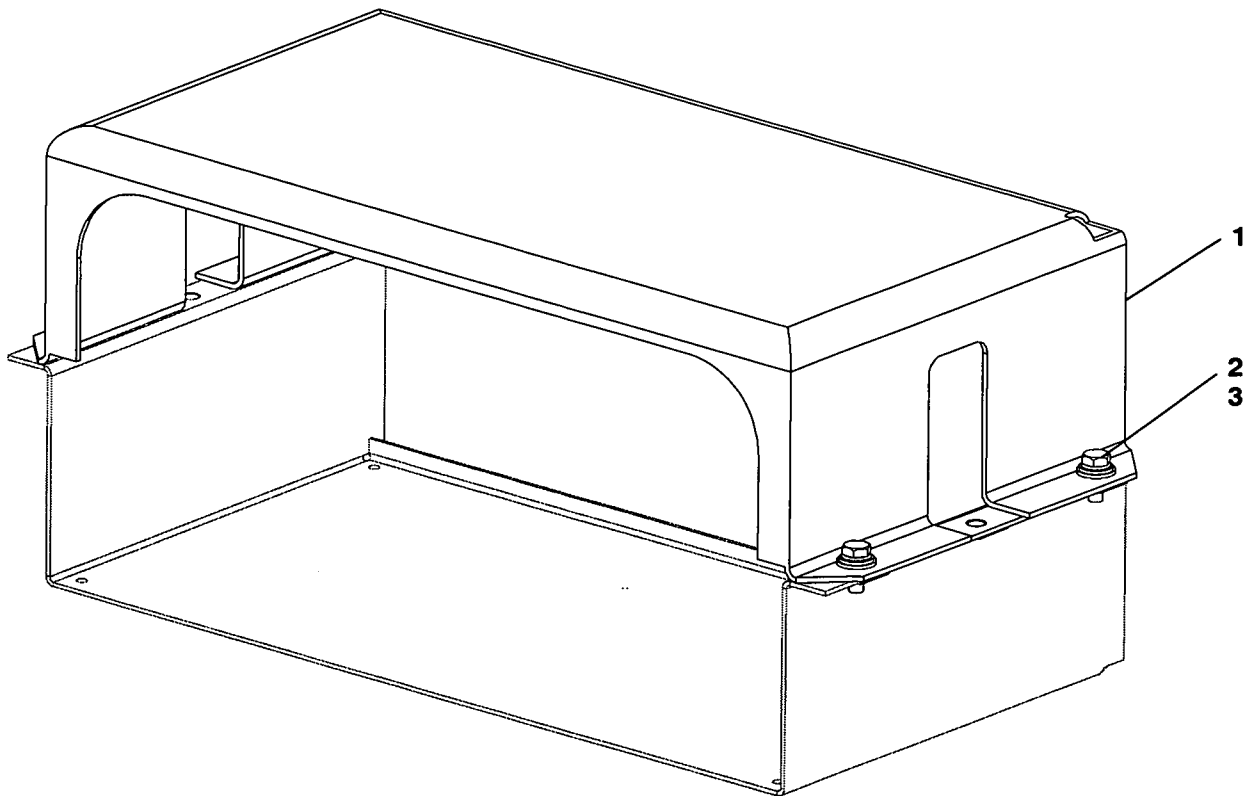
Some of the following abbreviations may be used throughout this Parts Catalog;

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

Paint and Thread Sealant

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

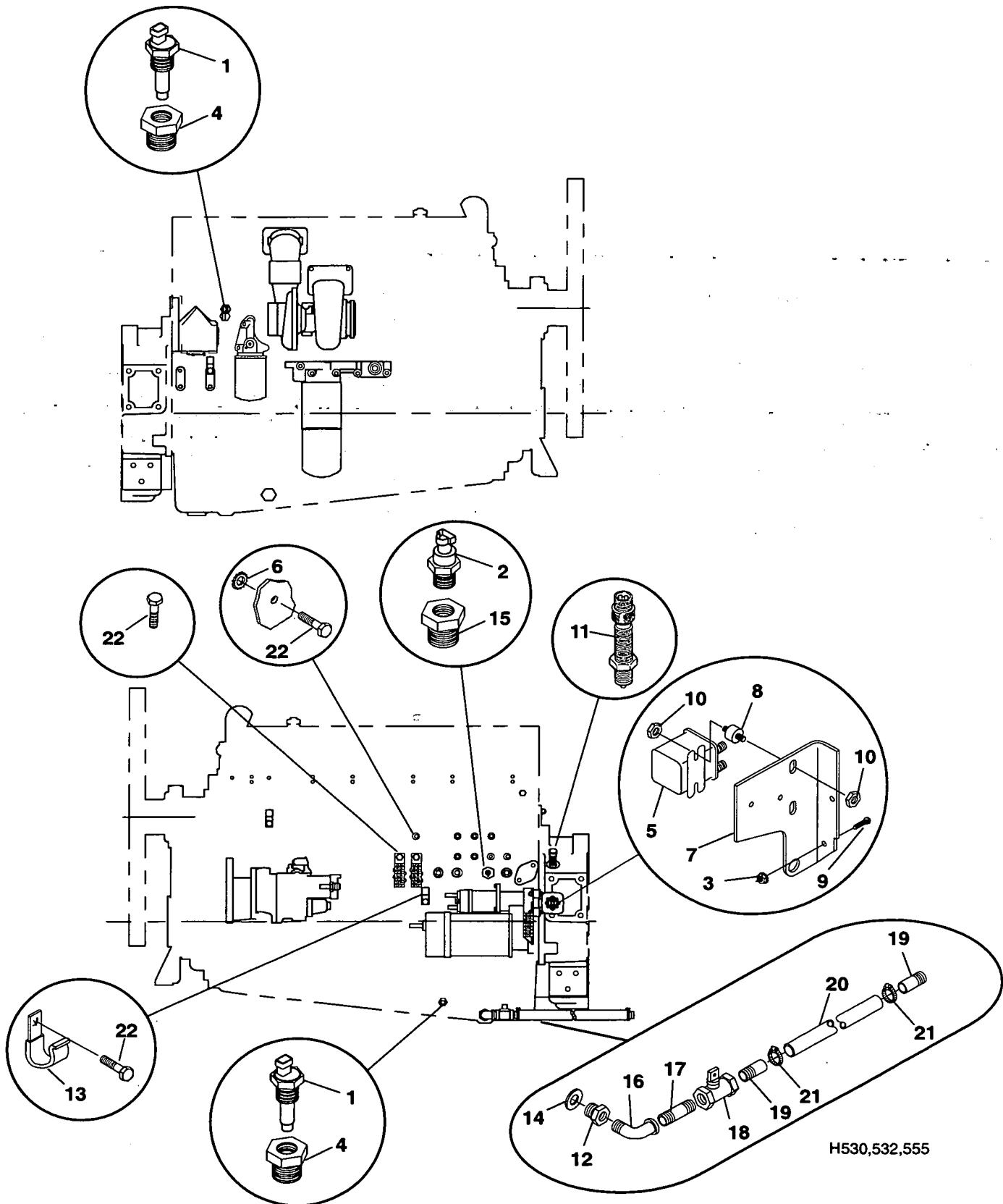
Battery Cover



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	416-1068	1	Cover, Battery Tray
2	526-0399-42	4	Washer, Flat

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	821-5004-02	4	Screw, Hex Head (3/8-16 x .75)

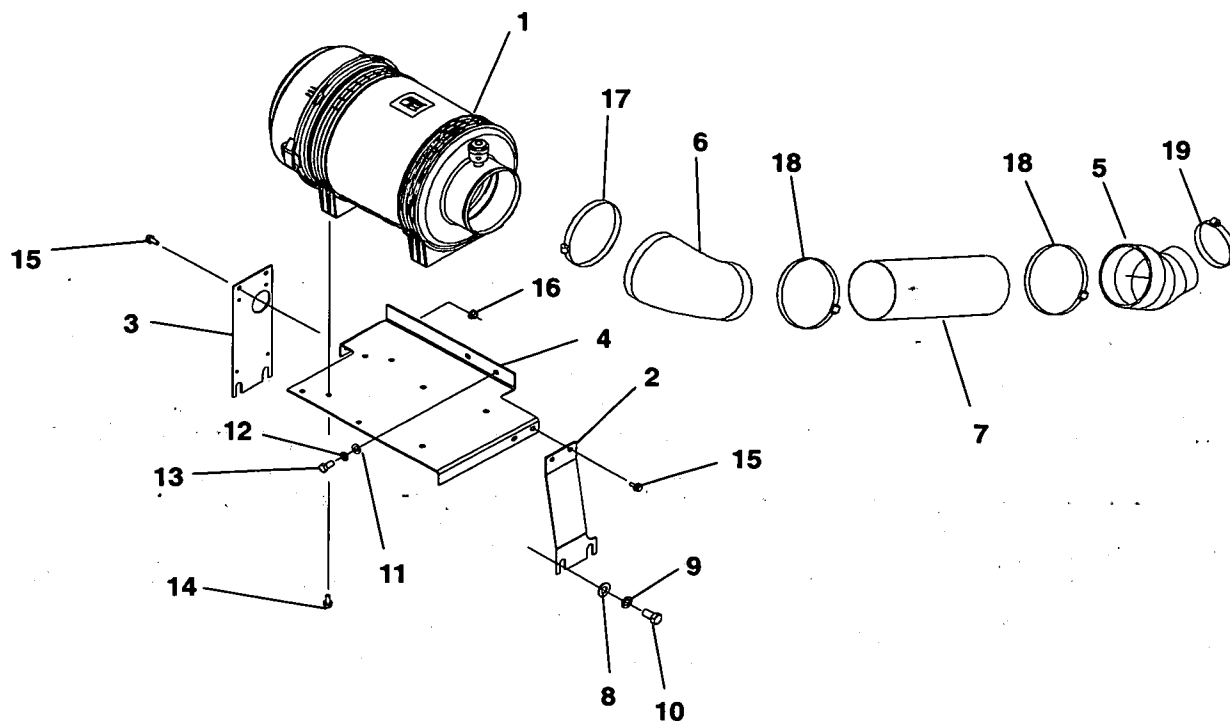
External Engine Parts



External Engine Parts

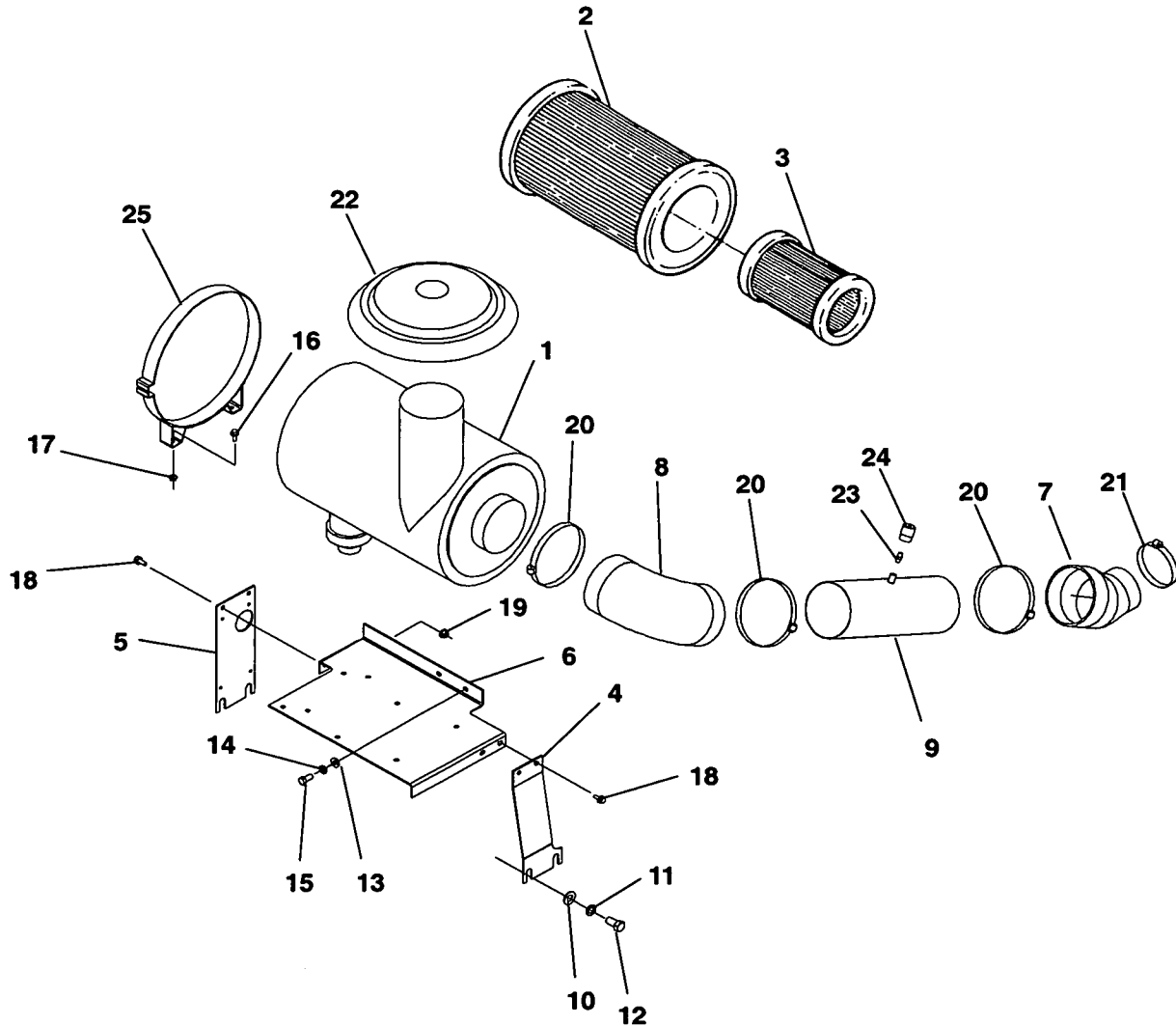
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0529-01	1	Sender, Oil Temperature (E2 Engine Block, E4 Oil Pan)	11	151-0411	1	Pickup, Magnetic
2	193-0444	1	Sender, Oil Pressure (S1)	12	102-1335	1	Plug, Oil Drain
3	870-0183	2	Nut, Lock - Hex Head - W/ET Lock Washer (#6-32) Terminal Block Mounting	13	518-0548-02		Clamp, "J"
4	505-0019	1	Bushing, Pipe - Reducer (1/2" to 3/8")	14	508-0292	1	Washer, Sealing - Copper
5	307-2621-02	1	Solenoid, Pilot (K4)	15	502-1217-01	1	Adapter, Female - Brass
6	856-0010	1	Washer, Lock - EIT (3/8")	16	505-0050	1	Elbow, Pipe - Street - 90 Deg (1/2")
7	319-2236	1	Bracket, Mounting	17	505-0100	1	Nipple, Pipe - Close (1/2")
8	402-0610	2	Isolator, Vibration	18	504-0011	1	Valve, Shutoff (1/2")
9	812-0067	2	Screw, Machine - Round Head (#6-32 x 7/8") Terminal Block Mounting	19	502-0827	2	Nipple, Pipe - Half (1/2" x 1-1/2")
10	870-0212	4	Nut, Locking (1/4-20)	20	503-0098	-	Hose, Drain (3/4" ID) - Bulk (Order by the Foot - 3 Feet Required)
				21	503-0189	2	Clamp, Hose
				22	800-2060	3	Screw, Cap - Hex Head (M10 x 20mm)

Air Cleaner Standard



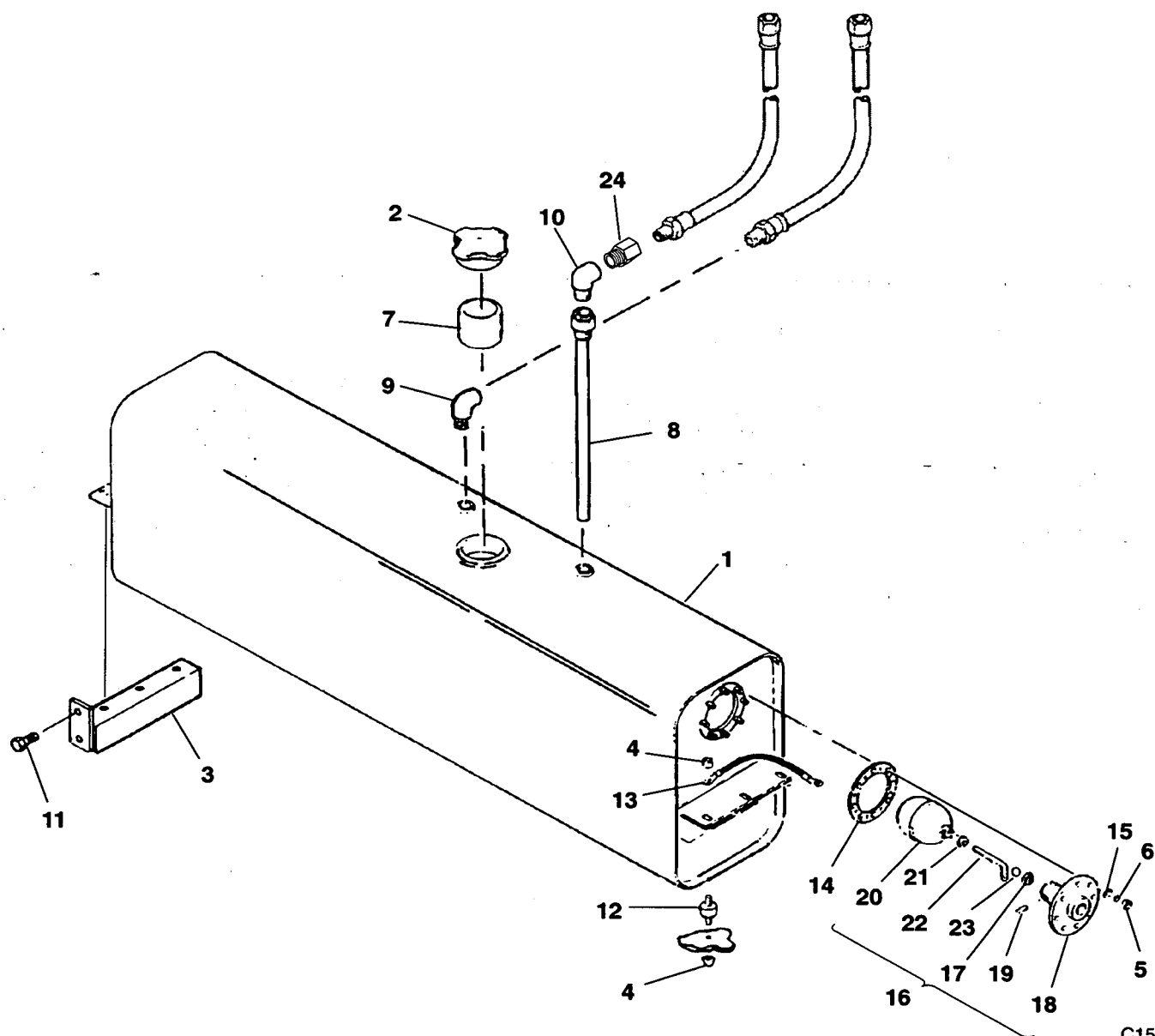
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3288-02	1	Cleaner, Air	12	850-2012	2	Washer, Lock - Split (M12)
2	140-2656	1	Bracket, Air Cleaner	13	800-2111	2	Screw, Cap - Hex Head (M12 x 1.75 x 25)
3	140-2655	1	Bracket, Air Cleaner	14	821-6003-02	4	Screw, Hex Head (M8 x 1.25 x 20)
4	140-3343-02	1	Bracket, Air Cleaner	15	821-6004-01	4	Screw, Hex Head (M10 x 1.5 x 20)
5	503-2276	1	Elbow, Reducer - 45° (5.5 x 4)	16	870-2065-04	4	Nut, Hex - Flange
6	140-2102	1	Elbow, Reducer - 90° (7 x 5.5)	17	503-1870-14	1	Clamp, Hose
7	140-3362-02	1	Tube, Air Cleaner - Inlet	18	503-1870-11	2	Clamp, Hose
8	526-0112	4	Washer, Flat (5/8)	19	503-1870-07	1	Clamp, Hose
9	850-0070	4	Washer, Lock - Split (5/8)				
10	800-0130	4	Screw, Cap - Hex Head (M12 x 1.75 x 25)				
11	526-2140	2	Washer, Flat (M12)				

Air Cleaner Heavy Duty



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2637	1	Cleaner, Air (Includes Elements)	15	800-2111	2	Screw, Cap - Hex Head (M12 x 1.75 x 25)
2	140-2636	1	Element, Filter (Outer)	16	821-6003-02	4	Screw, Hex Head (M8 x 1.25 x 20)
3	140-2638	1	Element, Filter (Inner)	17	870-2065-03	4	Nut, Hex - Flange (M8 x 1.5)
4	140-2656	1	Bracket, Air Cleaner	18	821-6004-01	4	Screw, Hex Head (M10 x 1.5 x 20)
5	140-2655	1	Bracket, Air Cleaner	19	870-2065-04	4	Nut, Hex - Flange
6	140-3343-02	1	Bracket, Air Cleaner	20	503-1870-11	3	Clamp, Hose
7	503-2276	1	Elbow, Reducer - 45° (5.5 x 4)	21	503-1870-07	1	Clamp, Hose
8	140-1415	1	Elbow - 90°	22	140-1347	1	Cap, Air Cleaner
9	140-3388-02	1	Tube, Air Cleaner - Inlet	23	140-1260	1	Fitting, Safety Filter
10	526-0112	4	Washer, Flat (5/8)	24	140-1548	1	Indicator, Service
11	850-0070	4	Washer, Lock - Split (5/8)	25	140-0757	1	Clamp, Air Cleaner
12	800-0130	4	Screw, Cap - Hex Head (M12 x 1.75 x 25)				
13	526-2140	2	Washer, Flat (M12)				
14	850-2012	2	Washer, Lock - Split (M12)				

Day Tank Without Pump and Control



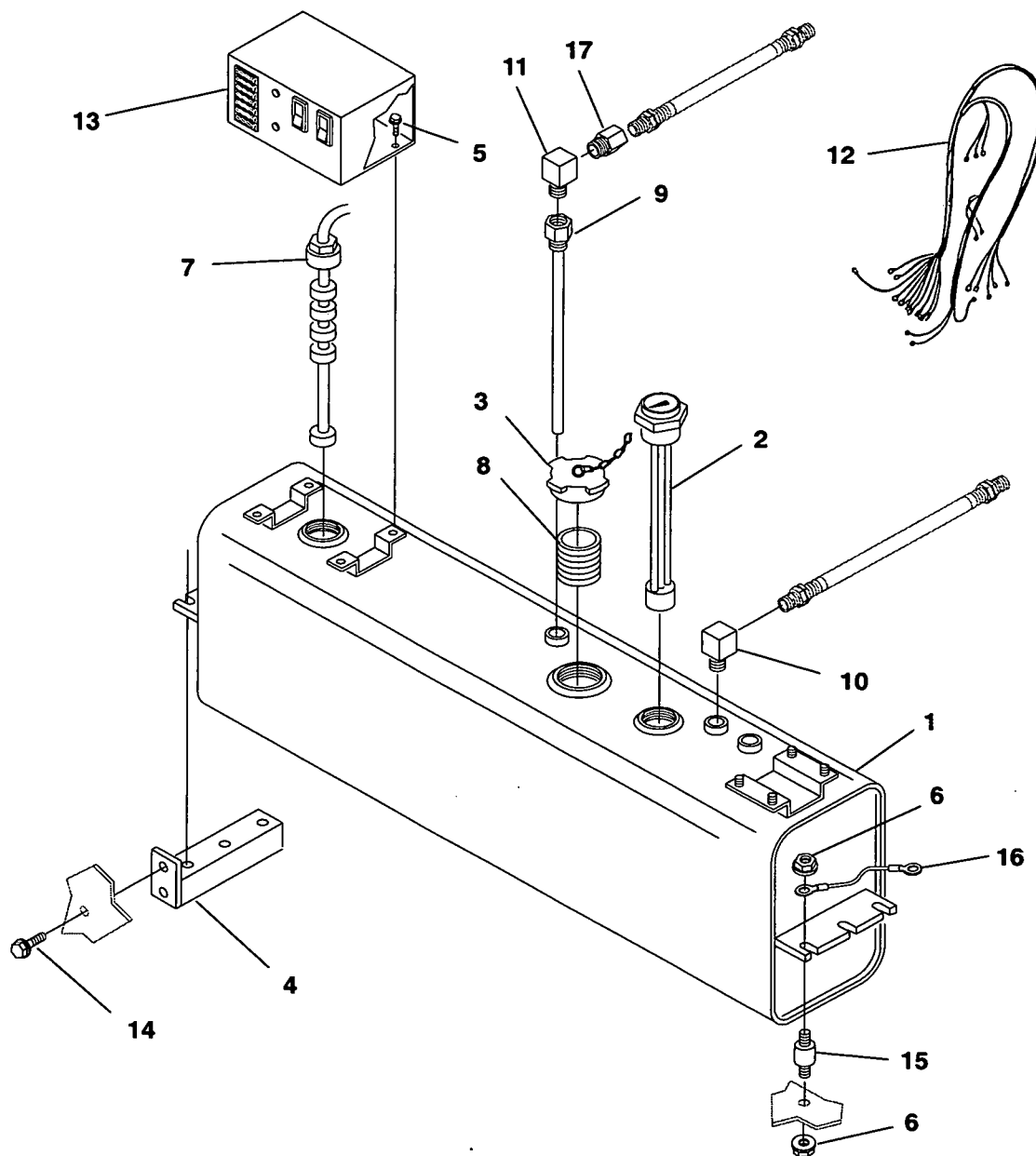
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REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	415-0728	1	Tank, Day (19 Gallons)
2	159-1208	1	Cap, Fuel
3	159-1299	1	Bracket, Mounting
4	870-0212	9	Nut, Locking - Hex Head (1/4-20)
5	867-0028	8	Nut, Hex (#10-32)
6	853-1008	8	Washer, Lock - W/ET (#10)
7	505-0172	1	Nipple, Pipe - Close (2")
8	415-0566-15	1	Pipe, Suction
9	505-0120	1	Elbow, Street - 90 Deg (3/8")
10	505-0050	1	Elbow, Street - 90 Deg (1/2")
11	821-0030	2	Screw, Self-Locking - Hex Washer Head (3/8-16 x 1")
12	402-0610	6	Isolator, Vibration
13	337-2402	1	Cable, Ground (5-1/2")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
14	415-0660	1	Gasket
15	526-0008	8	Washer, Flat (#10)
16	415-0657	1	Valve Assembly, Float (Includes Parts Marked *)
17	415-0656-21	1	* Seal, Ring
18	415-0650-01	1	* Body, Valve
19	415-0651-19	1	* Pin, Roll
20	415-0652	1	* Ball, Float
21	864-0011	1	* Nut, Jam (1/4-20)
22	415-0654	1	* Arm, Float
23	415-0655	1	* Ball, Steel
24	505-0248	1	Elbow, Street (1/2" x 45 Deg)

* - Parts Included in 415-0657 Float Valve Assembly

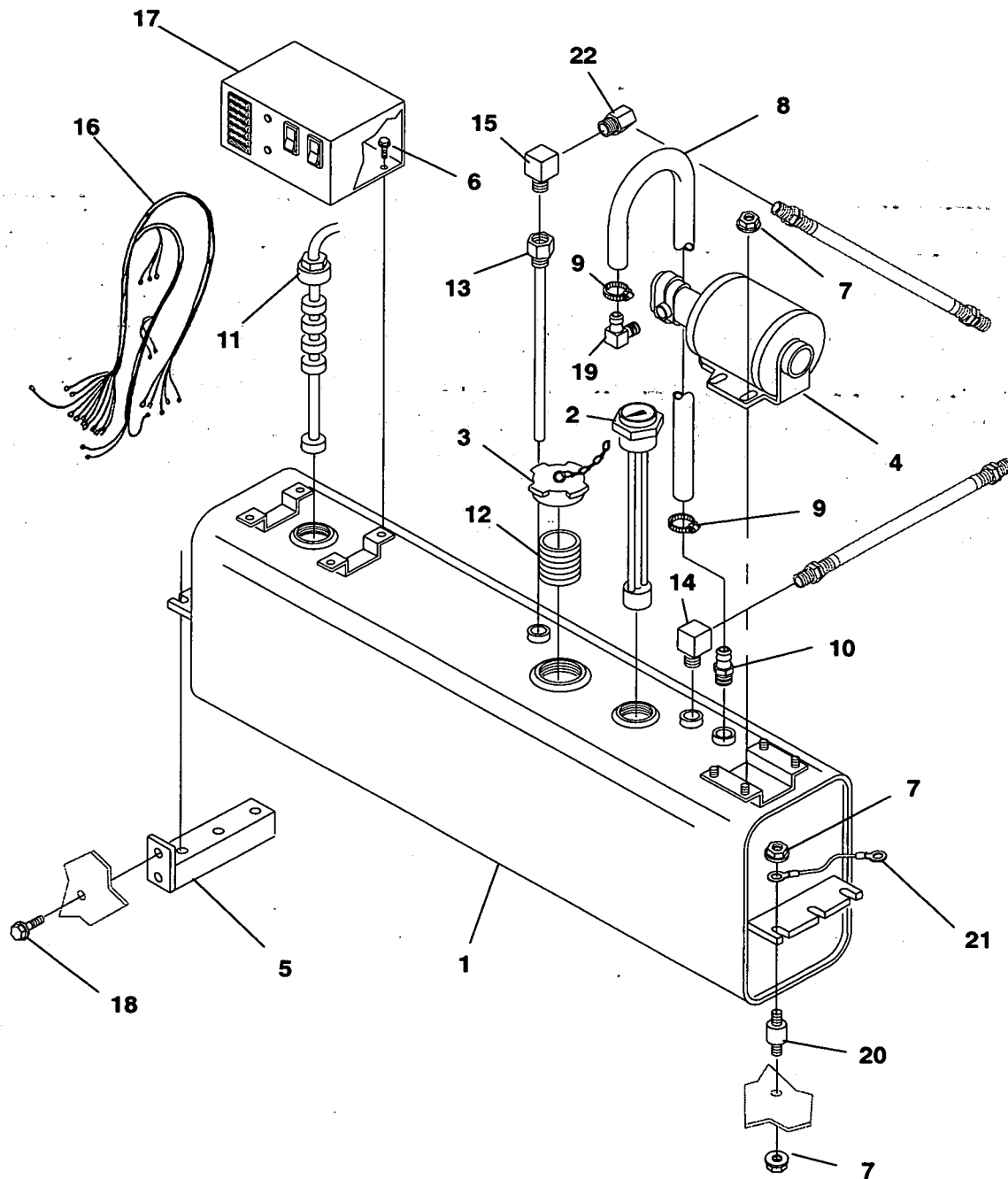
Day Tank With Control



C152

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	415-0727	1	Tank, Day (19 Gallons)	11	505-0050	1	Elbow, Pipe - Street (1/2" x 90°)
2	415-0565-15	1	Gauge, Liquid Level	12	338-2809	1	Harness, Wiring - Fuel Tank Control to Starter (2 Wire, 70")
3	159-1208	1	Cap, Fuel	13	625-2141-01	1	Control, Fuel Tank (See Separate Page For Components)
4	159-1299	1	Bracket, Mounting	14	821-0030	2	Screw, Self-Locking - Hex Washer Head (3/8-16 x 1")
5	821-5002-04	4	Screw, Self-Locking - Hex Washer Head (1/4-20 x 5/8")	15	402-0610	6	Isolator, Vibration
6	870-0212	9	Nut, Locking - Hex Head (1/4-20)	16	337-2402	1	Cable, Ground (5-1/2")
7	308-0913-06	1	Switch, Float (5 Float)	17	505-0248	1	Elbow, Street (1/2" x 45°)
8	505-0172	1	Nipple, Pipe - Close (2")				
9	415-0566-15	1	Pipe, Suction				
10	505-0120	1	Elbow, Pipe - Street (3/8" x 90°)				

Day Tank With Pump and Control

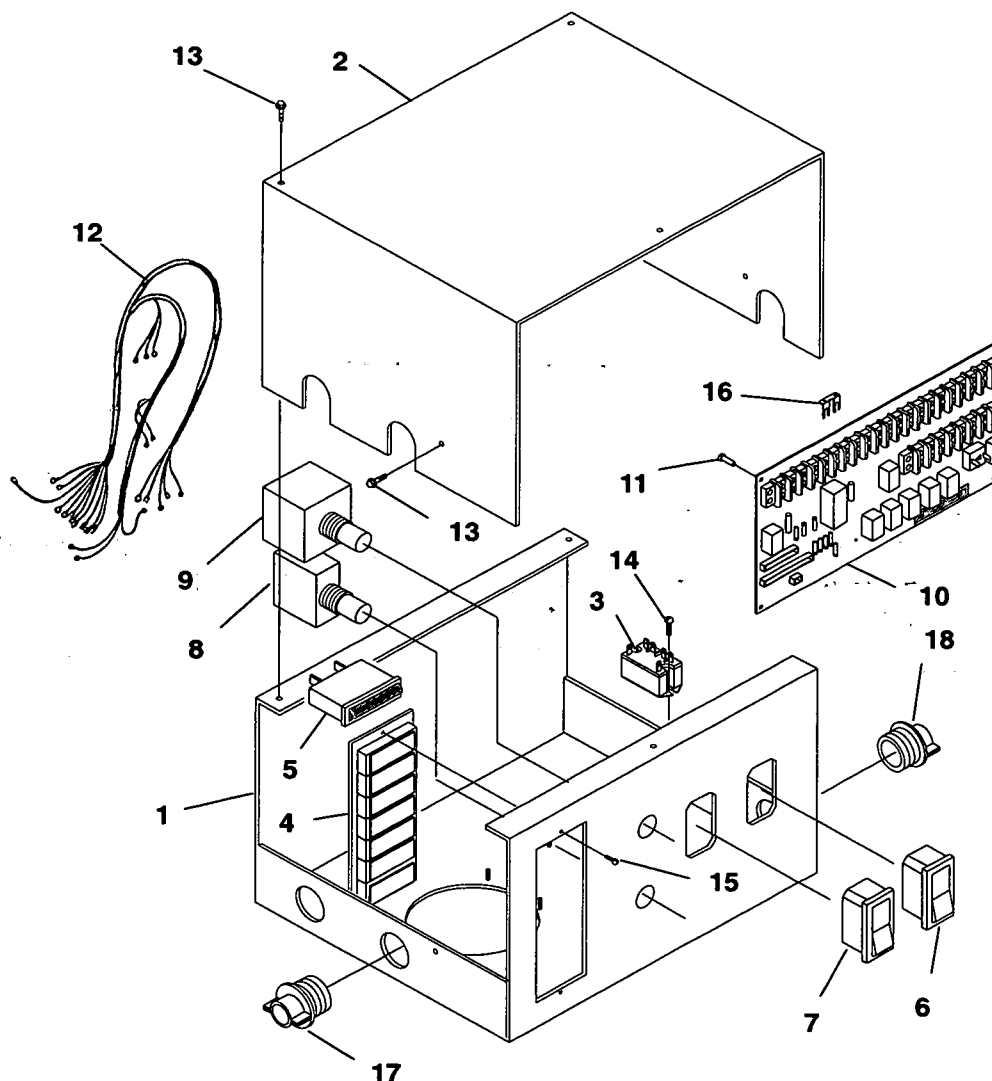


C024

Day Tank With Pump and Control

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

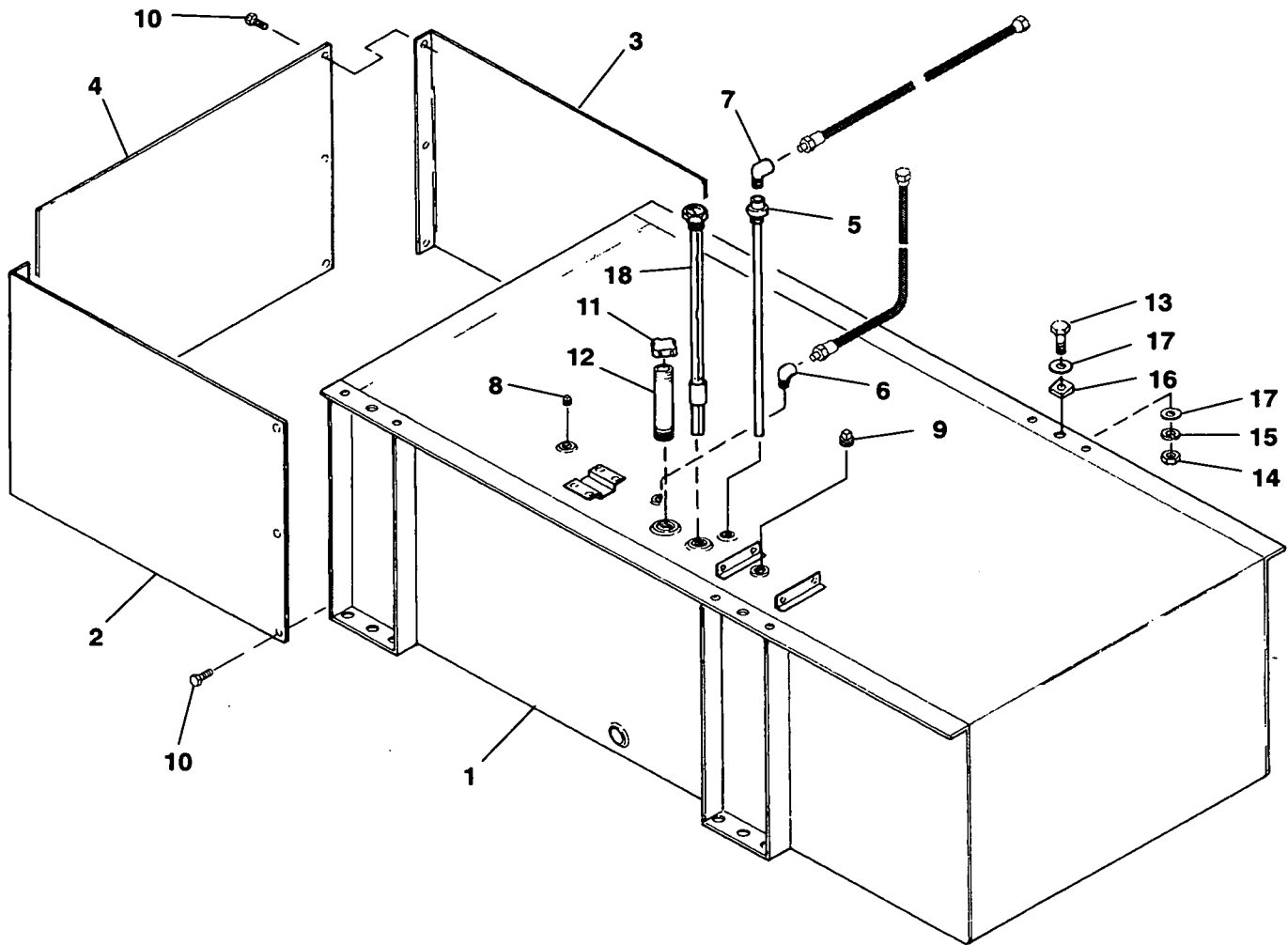
Fuel Tank Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	625-2141-01	1	Control, Fuel Tank - Complete (Includes Parts Listed Below)
1	319-0486	1	Box, Control
2	319-0485	1	Cover, Box
3	307-2677-02	1	Relay, Pump (K130)
4	322-0403-02	1	Light, Assembly, Indicator - 7 Light (Includes Wiring Harness)
5	322-0369-02	1	Lamp, Indicator - Replacement
6	308-0912	1	Switch, Rocker (On/Off/Emergency Run) (S102)
7	308-0852	1	Switch, Rocker (Reset/Off/Test) (S111)
8	320-1653	1	Breaker, Circuit - DC (Single Pole) (CB107)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	320-1654	1	Breaker, Circuit - AC (Double Pole) (CB101)
10	300-3464	1	Board, Printed Circuit
11	870-0458	4	Spacer, Board - Printed Circuit
12	338-2382	1	Harness, Wiring - Control Box
13	815-0350	5	Screw, Self-Tapping - Slotted Hex Washer Head (#10-32 x 3/8")
14	812-0075	2	Screw, Machine - Round Head (#8-32 x 1/4")
15	815-0385	2	Screw, Machine - Round Head (#6-32 x 1/2")
16	332-2605	2	Jumper, Terminal
17	331-0027	2	Connector, Romex
18	331-0042	1	Connector, Knockout

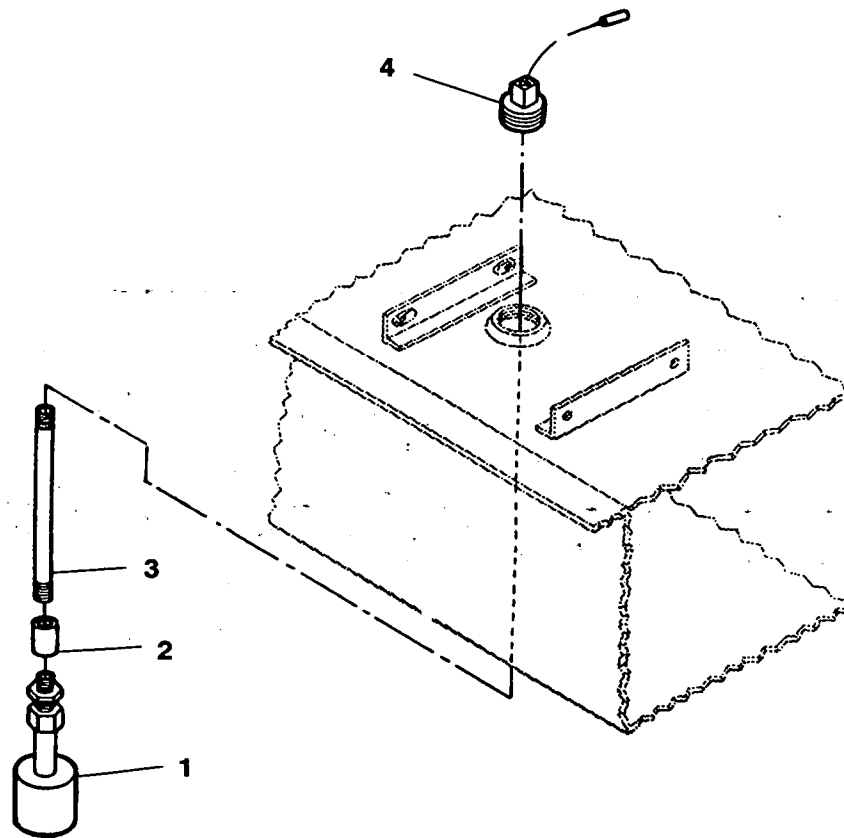
Subbase Fuel Tank



C150

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

Low Fuel Alarm

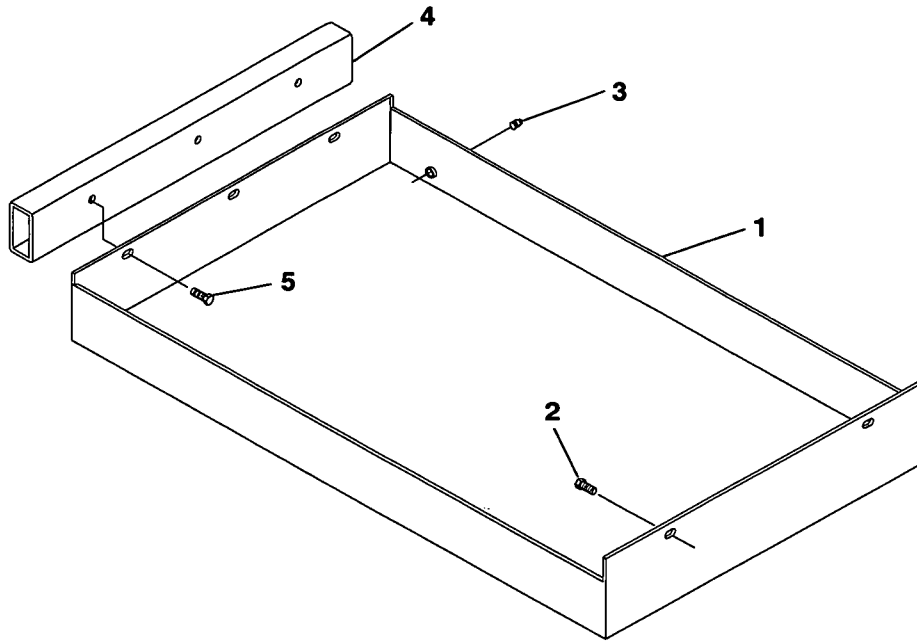


C157

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

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	505-1458-04		Nipple, Pipe (1/8")
4	505-1050-01	1	Plug, Pipe - Square Head (1-1/4")

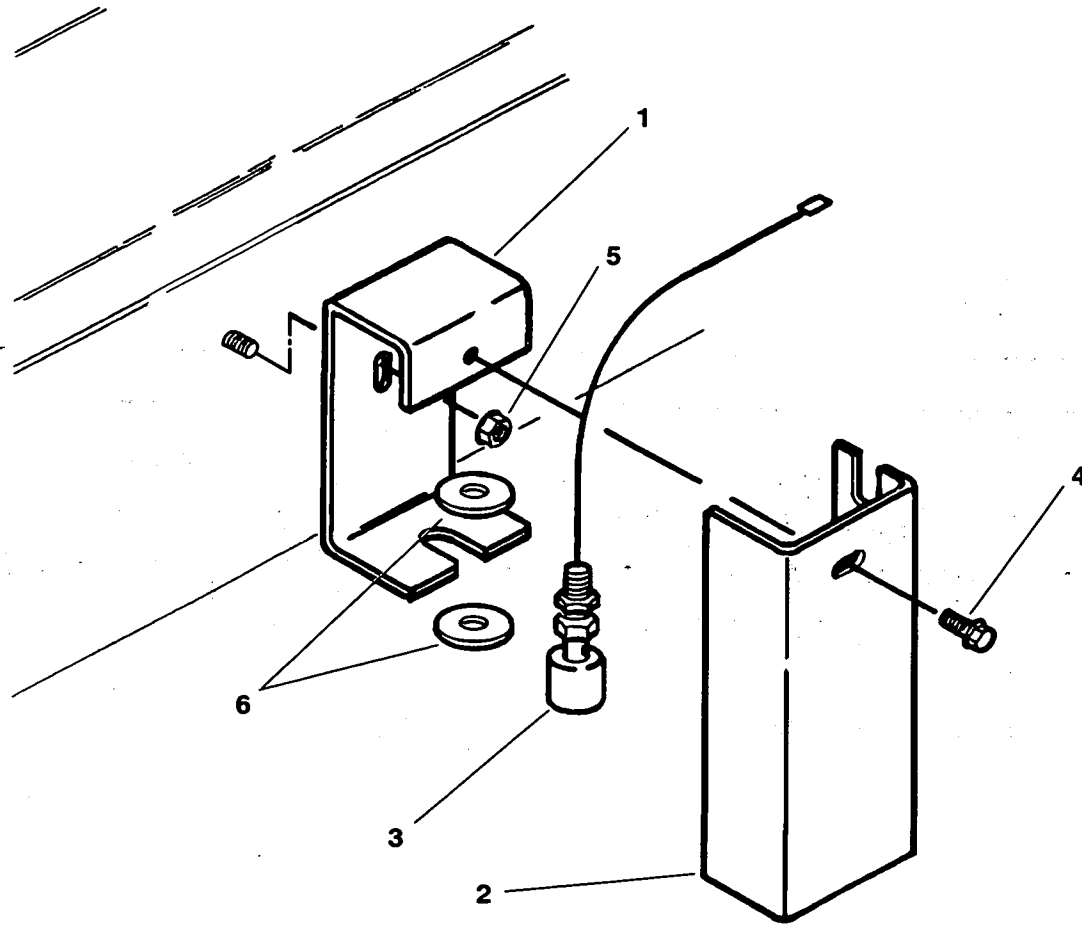
Rupture Basin



C142

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	159-1390	1	Basin, Rupture	4	130-3660-01	1	Spacer, Shock Absorber
2	815-0236	2	Screw, Cap - Hex Head - Thread Forming (5/16-18 x 5/8")	5	815-0836	3	Screw, Cap - Hex Head - Thread Forming (5/16-18 x 1-1/2")
3	505-0055	1	Plug, Pipe - Square Head (1/4")				

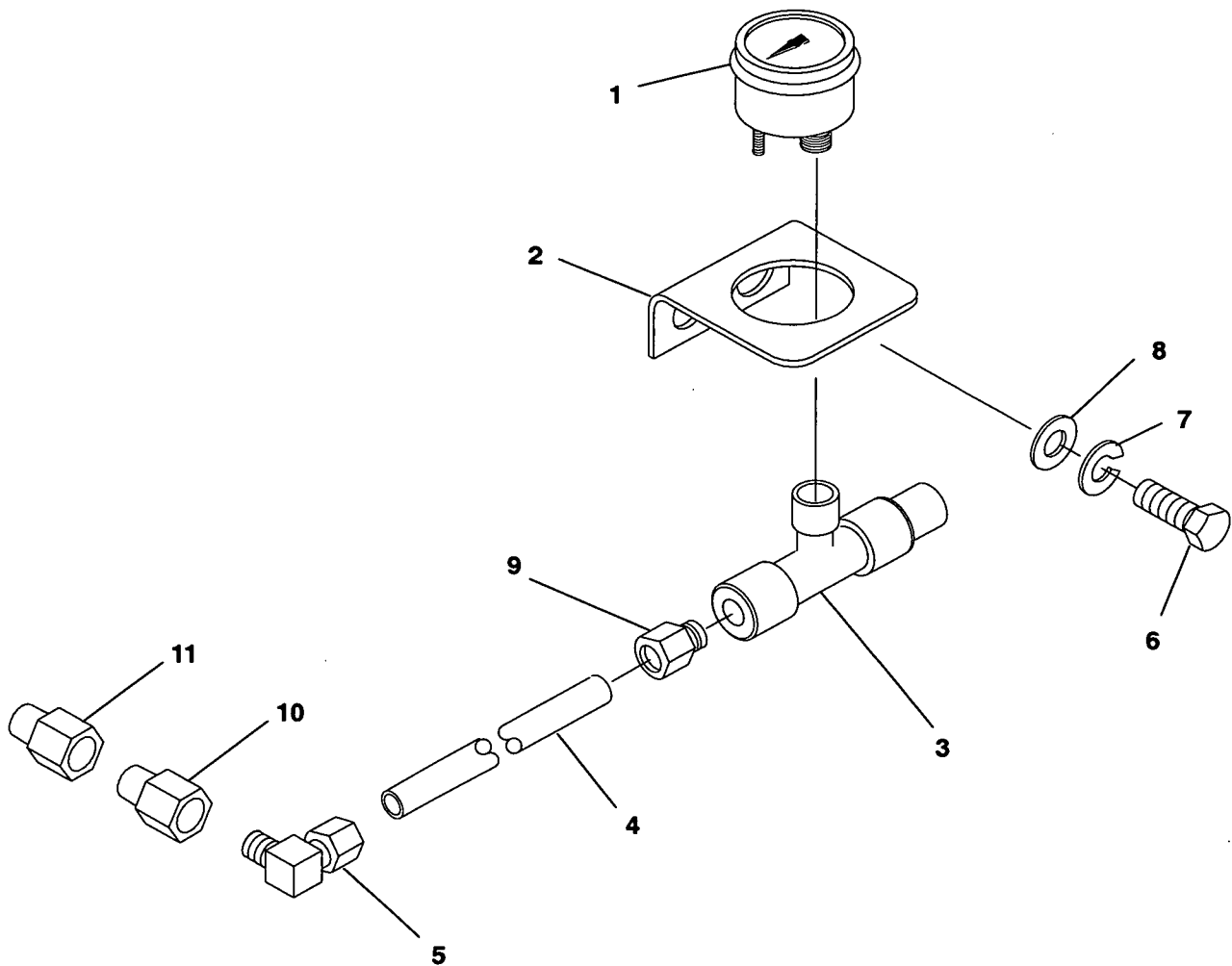
Float Switch



C158

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

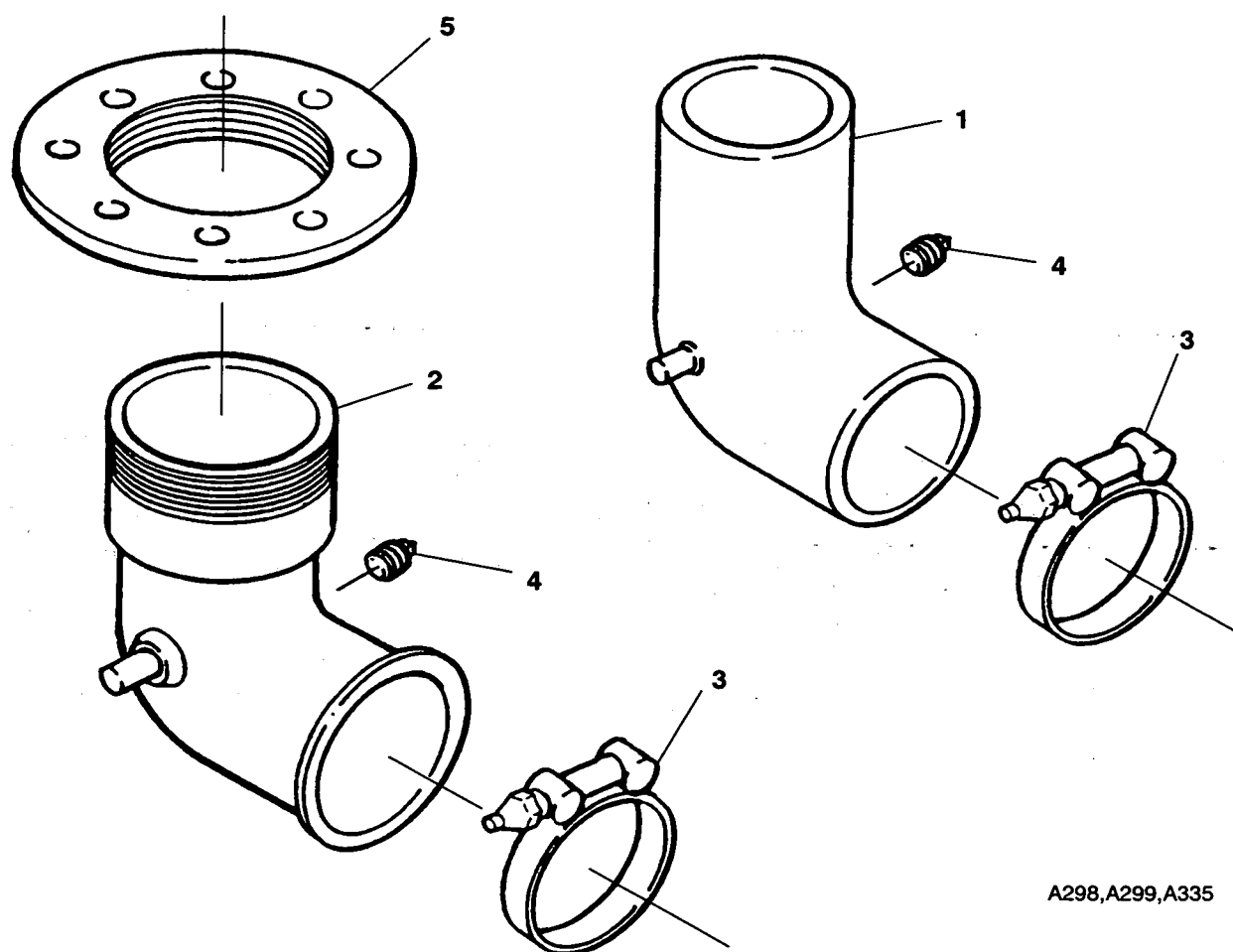
Fuel Pressure Gauge



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0128	1	Gauge, Fuel Pressure (0-200 Lbs) (Includes Mounting Hardware)
2	193-0029	1	Bracket, Mounting
3	504-0064	1	Valve
4	370-4003	1	Tube, Copper (7')
5	502-0034	1	Elbow, Male - Compression

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	800-2085	1	Screw, Cap - Hex Head (M10 x 20mm)
7	850-2010	1	Washer, Lock - Spring (M10)
8	526-0029	1	Washer, Flat (3/8")
9	502-0067	1	Connector, Comp. - Male
10	140-1260-01	1	Fitting, Safety Filter
11	502-1302	1	Adapter, Fuel Line

Exhaust Elbow

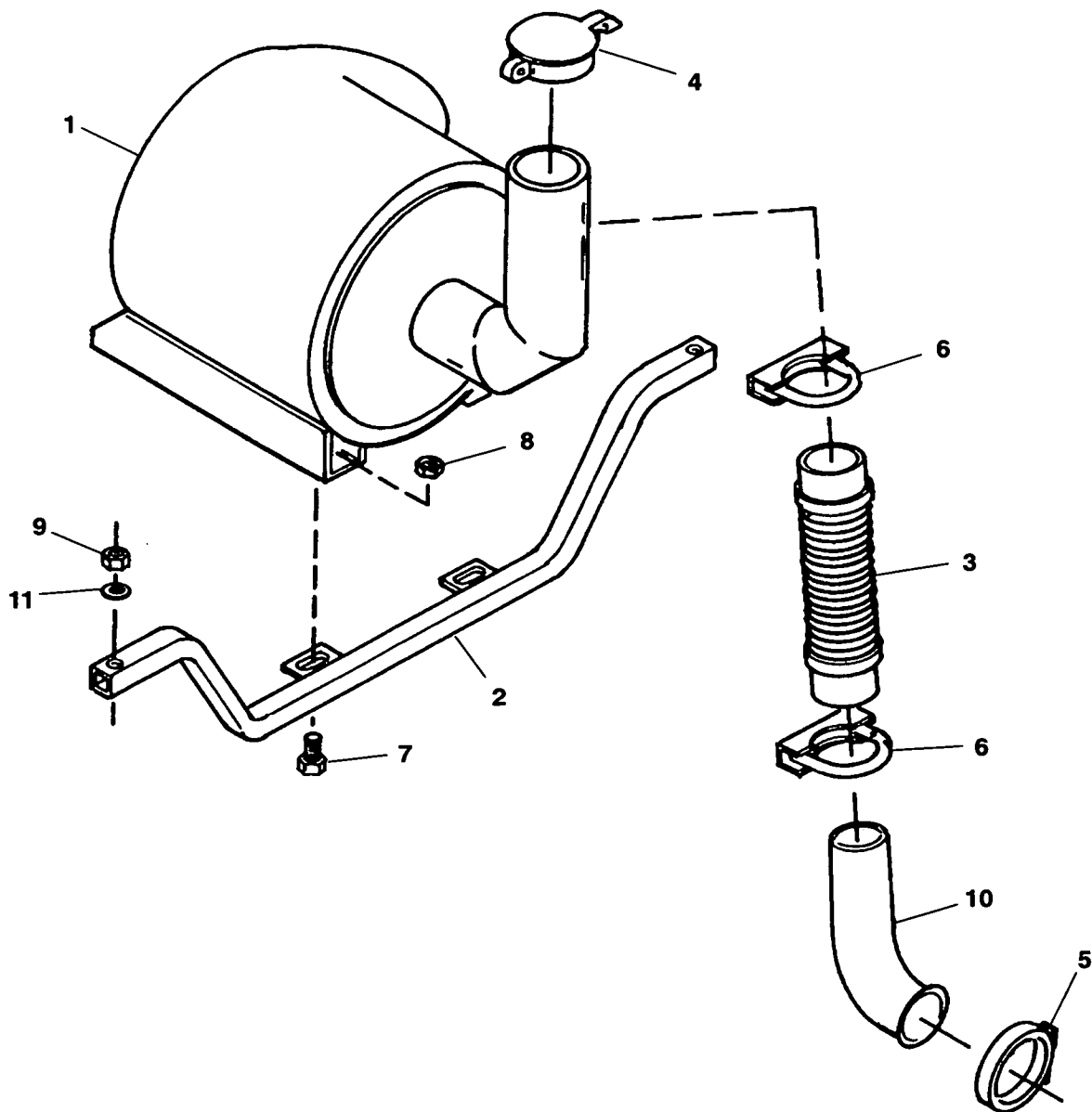


A298,A299,A335

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-2599	1	Elbow, Exhaust (4" OD Without Threads)
2	155-2600-01	1	Elbow, Exhaust (4" OD With Threads)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	503-1575-01	1	Clamp, V-Band
4	502-0080	1	Plug, Square Head (1/8")
5	155-0663-01	1	Flange, Companion (4")

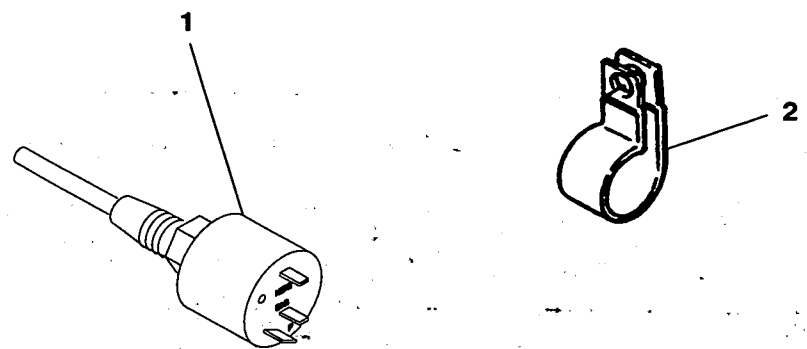
Muffler



A076

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

Low Coolant Level Sender

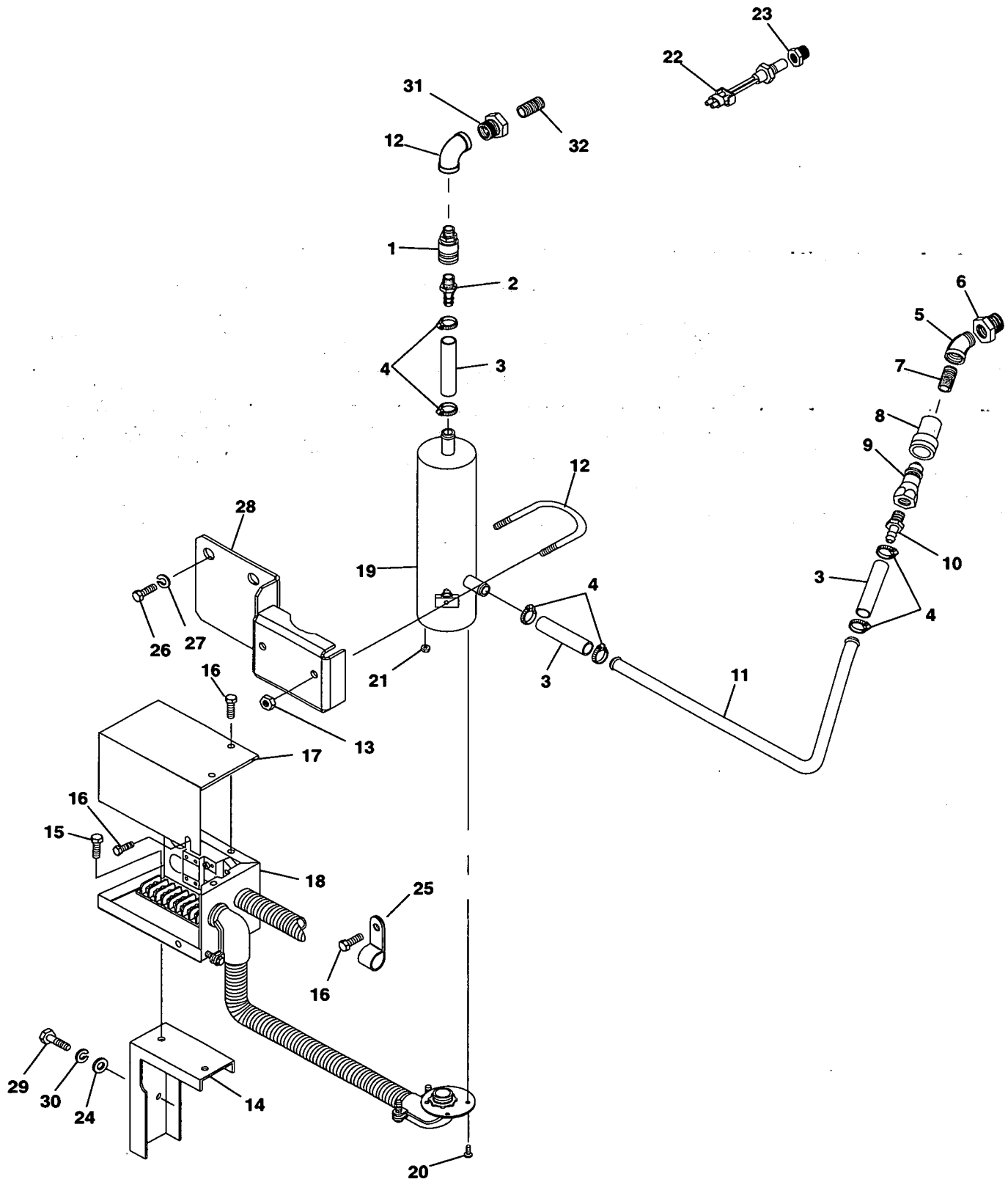


H389,H527

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0481	1	Sender, Low Coolant Level (S7)	2	518-0548-08	4	Clamp

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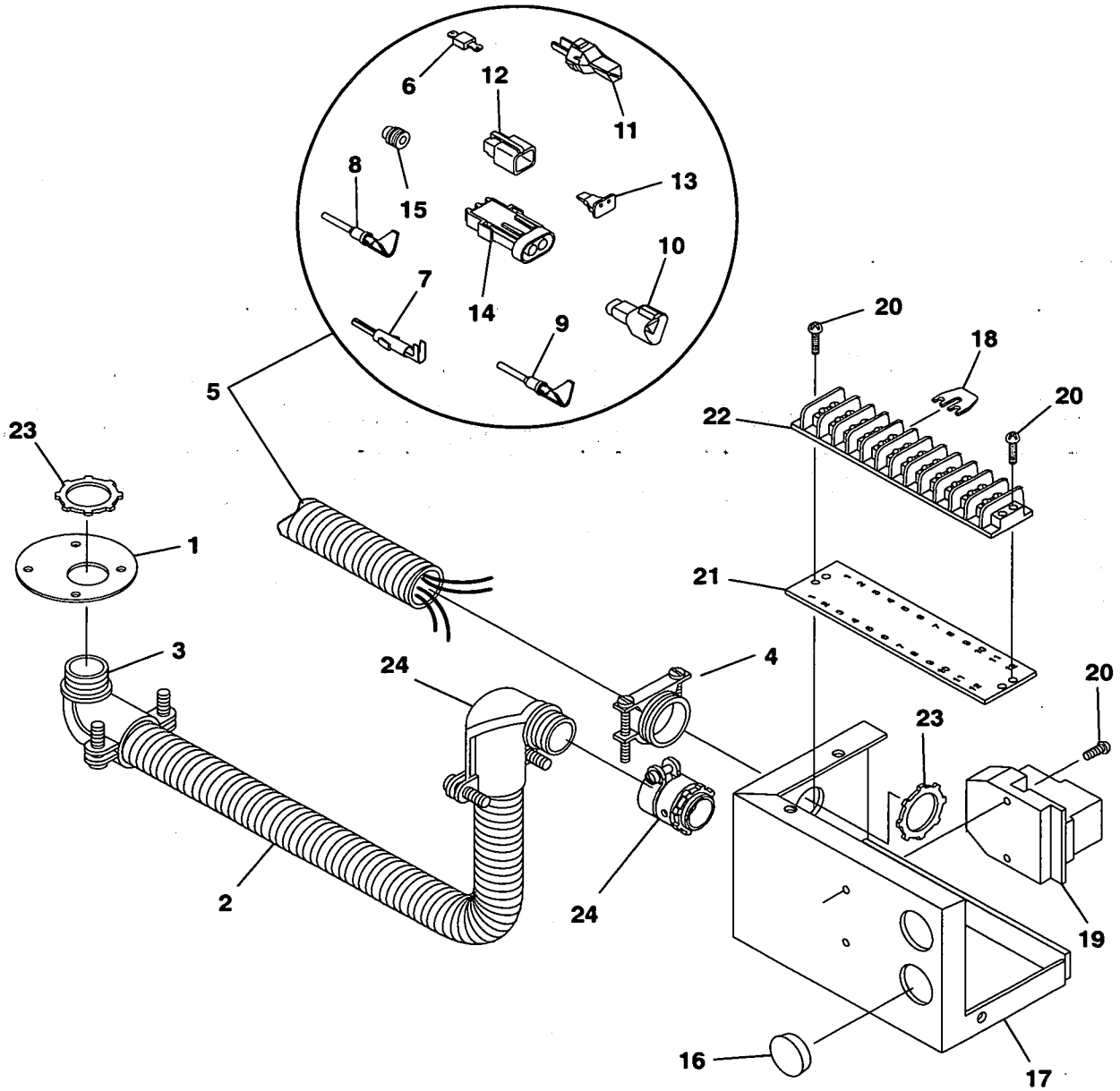
Coolant Heater



Coolant Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-1259	1	Coupler, Coolant Heater (1/2")	19			Heater, Coolant
2	502-1257	1	Connector, Hose Barb (For 3/4" ID Hose)		333-0634-01	1	4990 Watt
					333-0634-02	1	6420 Watt
3	503-1634-01	3	Hose, Silicon Rubber (3/4" ID x 4")	20	815-0539	3	Screw, Machine – Round Head Cross Recessed W/IT (#8-32 x 5/8")
4	503-2157-01	6	Clamp, Hose				
5	505-0050	2	Elbow, Pipe – 90° (1/2")	21	870-0131	3	Nut, Hex W/ET (#10-32)
6	505-0022	1	Bushing, Reducer (1" to 1/2")	22	309-0649	1	Thermostat (S11)
7	505-0100	1	Nipple, Pipe (1/2")	23	502-1336	1	Bushing, Reducer (1/2" x 3/8")
8	502-1260	1	Coupler, Coolant Heater	24	526-0029	2	Washer, Flat (3/8")
9	502-1261	1	Nipple, Coolant Heater (1/2")	25	332-3196	2	Clamp, "J" – Retainer – Wiring Harness (Coolant Heater Control Box Wiring Harness To Engine and Main Engine Harness)
10	502-0827	1	Connector, Hose Barb (For 3/4" ID Hose)				
11	130-5532-02	1	Tube, Coolant Heater				
12	155-3021	1	Clamp, Coolant Heater	26	800-0130	2	Screw, Cap – Hex Head (5/8-11 x 1")
13	870-0550-09	2	Nut, Hex Flange (3/8-16)	27	850-0070	2	Washer, Lock – Spring (5/8")
14	319-2918	1	Bracket, Terminal Block	28	130-5528-02	1	Bracket, Coolant Heater
15	821-5004-02	2	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")	29	800-0054	2	Screw, Cap – Hex Head (3/8-16 x 2")
16	821-5002-03	5	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	30	850-0103	2	Washer, Lock – Spring (3/8")
17	319-2815	1	Cover, Control	31	505-0231	1	Coupling, Reducer
18	–	1	Control Assembly, Coolant Heater (See Separate Page For Components)	32	505-0101	1	Nipple, Close

Coolant Heater Control

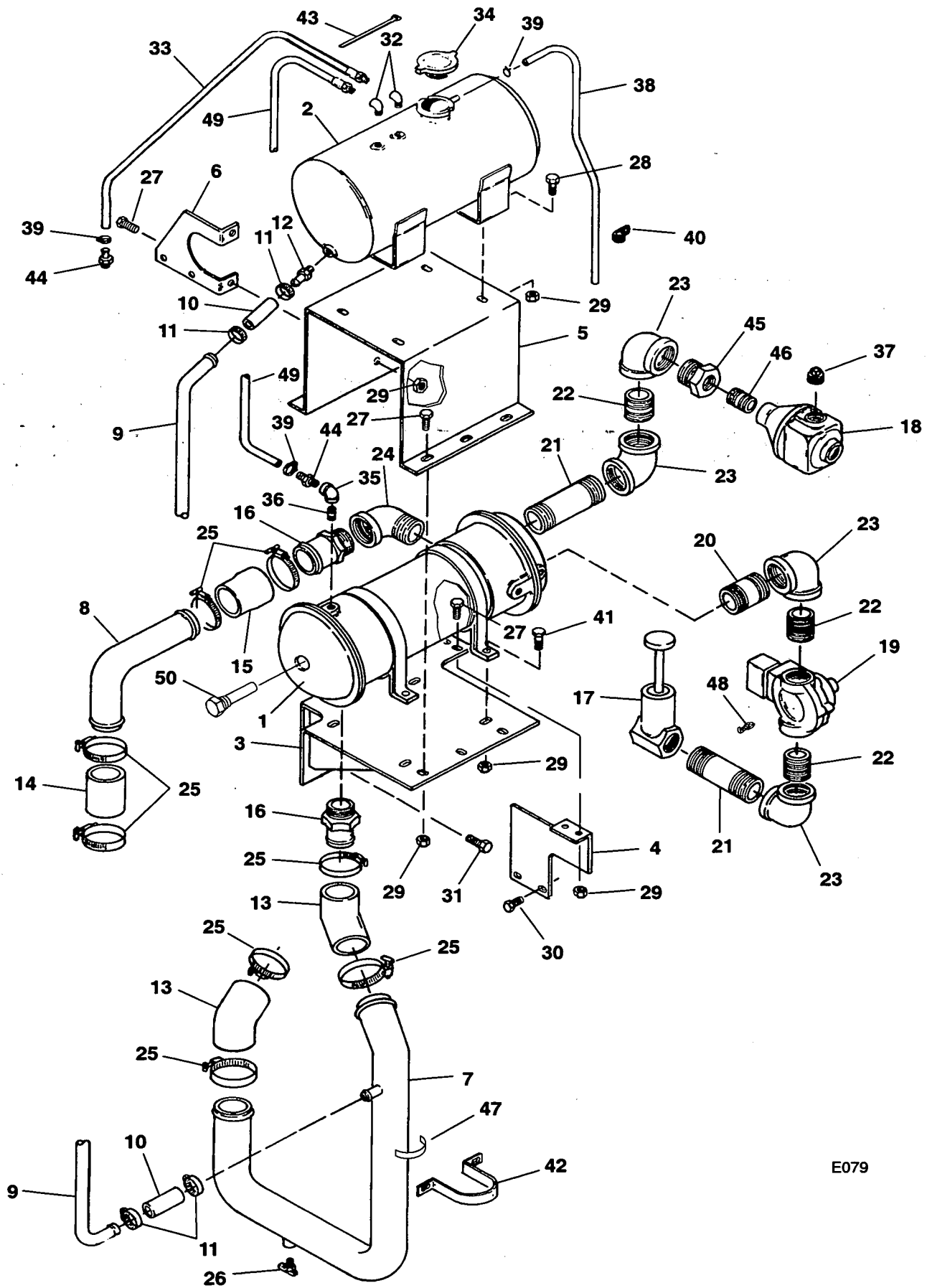


Coolant Heater Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4552	1	Cover, Coolant Heater	11	323-1502	1	*Wedge, Receptacle (Used with J3)
2	338-3923-07	1	Harness, Wiring – AC – Coolant Heater (From Coolant Heater Bottom To Coolant Heater Control Box) (Includes Conduit Connectors) (23")	12	323-1504	1	*Connector, Plug (2 Pin) (P4)
3	331-0554	2	Connector, Conduit – 90° (3/4")	13	323-1500	1	*Wedge, Plug (Used With P4)
4	331-0042	1	Connector, Wiring – DC – Romex (3/4")	14	323-1652	1	*Connector, Plug – 2-Way (2 Pin) (P11)
5	338-3385	1	Harness, Wiring – DC – Engine Heater (From Coolant Heater Control Box To Engine And Main Engine Harness) (Includes Parts Marked *)	15	323-1445	2	*Seal, Cable (Used With P11)
6	357-0030	1	*Rectifier (6 Amp) (Located at K11 end of harness)	16	517-0138-02	3	Plug, Hole (Fits 1-1/8" Hole)
7	323-1718	2	*Pin, Contact	17	319-2814	1	Box, Terminal
8	323-1491	3	*Pin, Contact	18	332-3440	1	Jumper, Terminal
9	323-1492	2	*Socket, Contact	19	307-2859	1	Relay, Power – 24VDC (K11)
10	323-1494	1	*Connector, Receptacle (3 Pin) (J3)	20	815-0464	4	Screw, Machine – Round Head Cross Recessed W/IT – Thread Forming (#8-32 x 1")
				21	332-1469	1	Strip, Marker
				22	332-1468	1	Block, Terminal – 12 Place (TB1)
				23	331-0555	2	Nut, Connector Lock (3/4-14)
				24	331-0570	1	Connector, Conduit

*—Parts Included in 338-3385 DC Engine Heater Wiring Harness

Heat Exchanger



E079

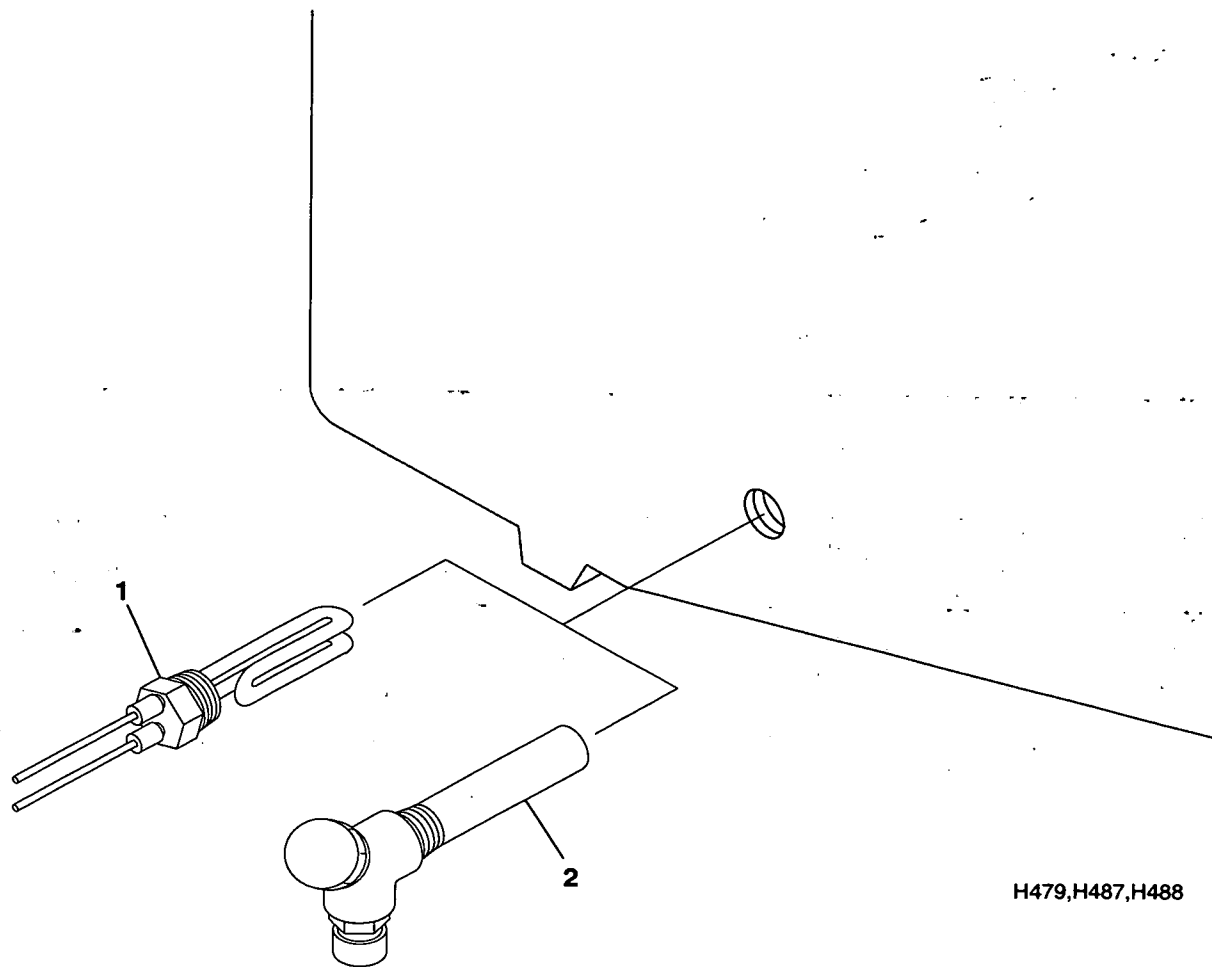
Heat Exchanger

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

#-Cut Off and Discard The Non-Swiveling End of the Hose Leaving the Length as Indicated Above

*-Used On Sets With Water Saver Valve

Oil Pan Heater

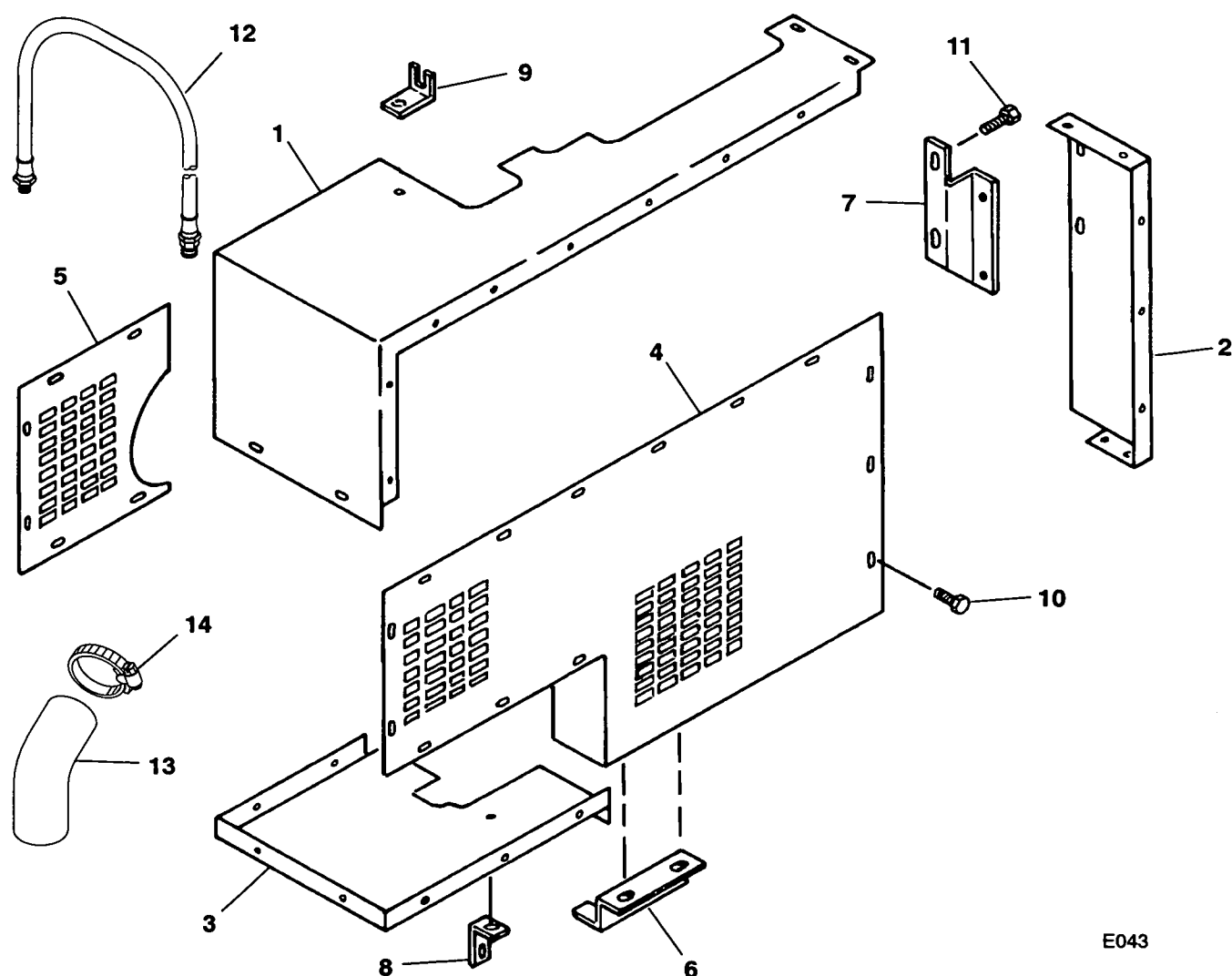


H479,H487,H488

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

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

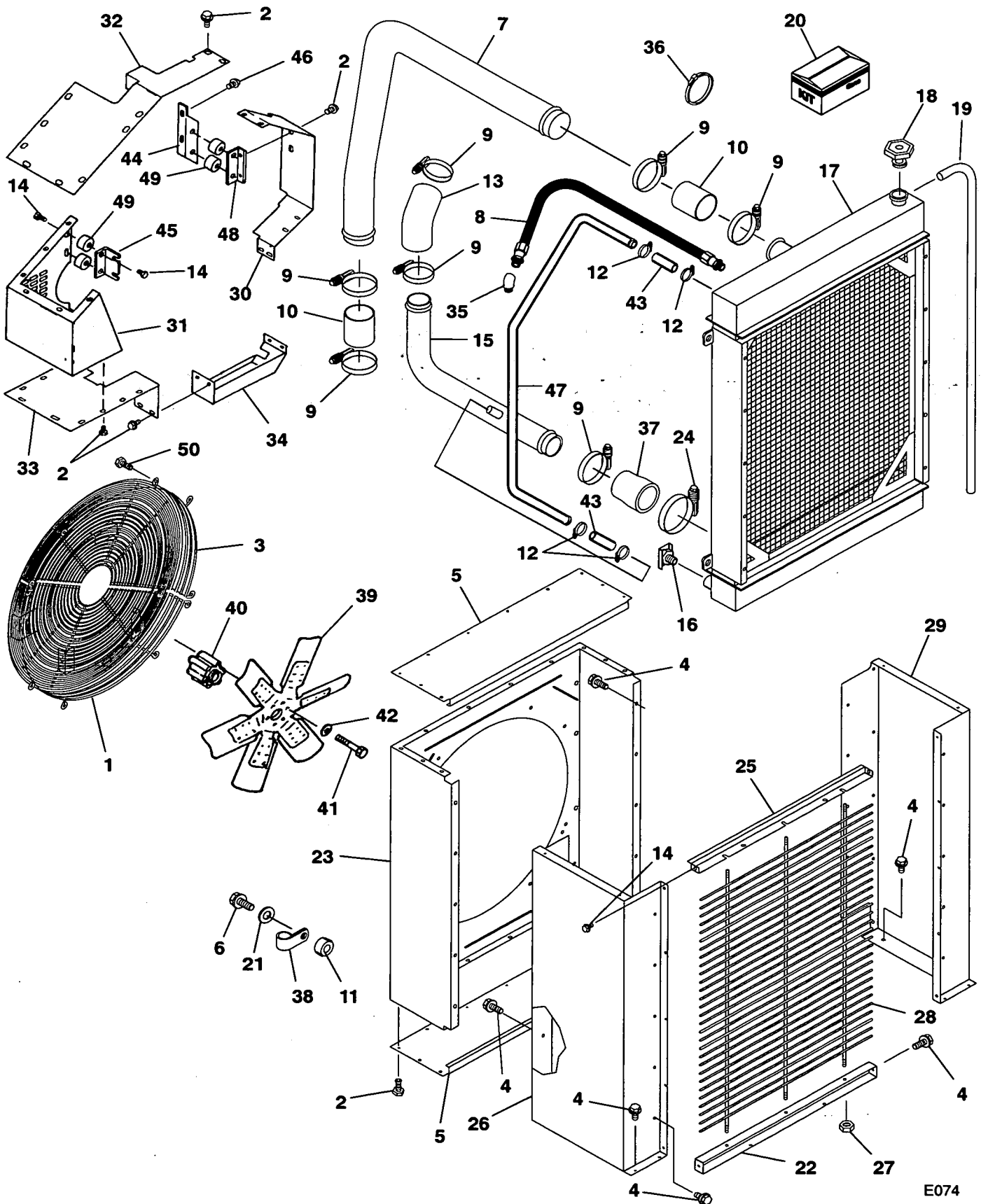
Remote Radiator



E043

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

Radiator

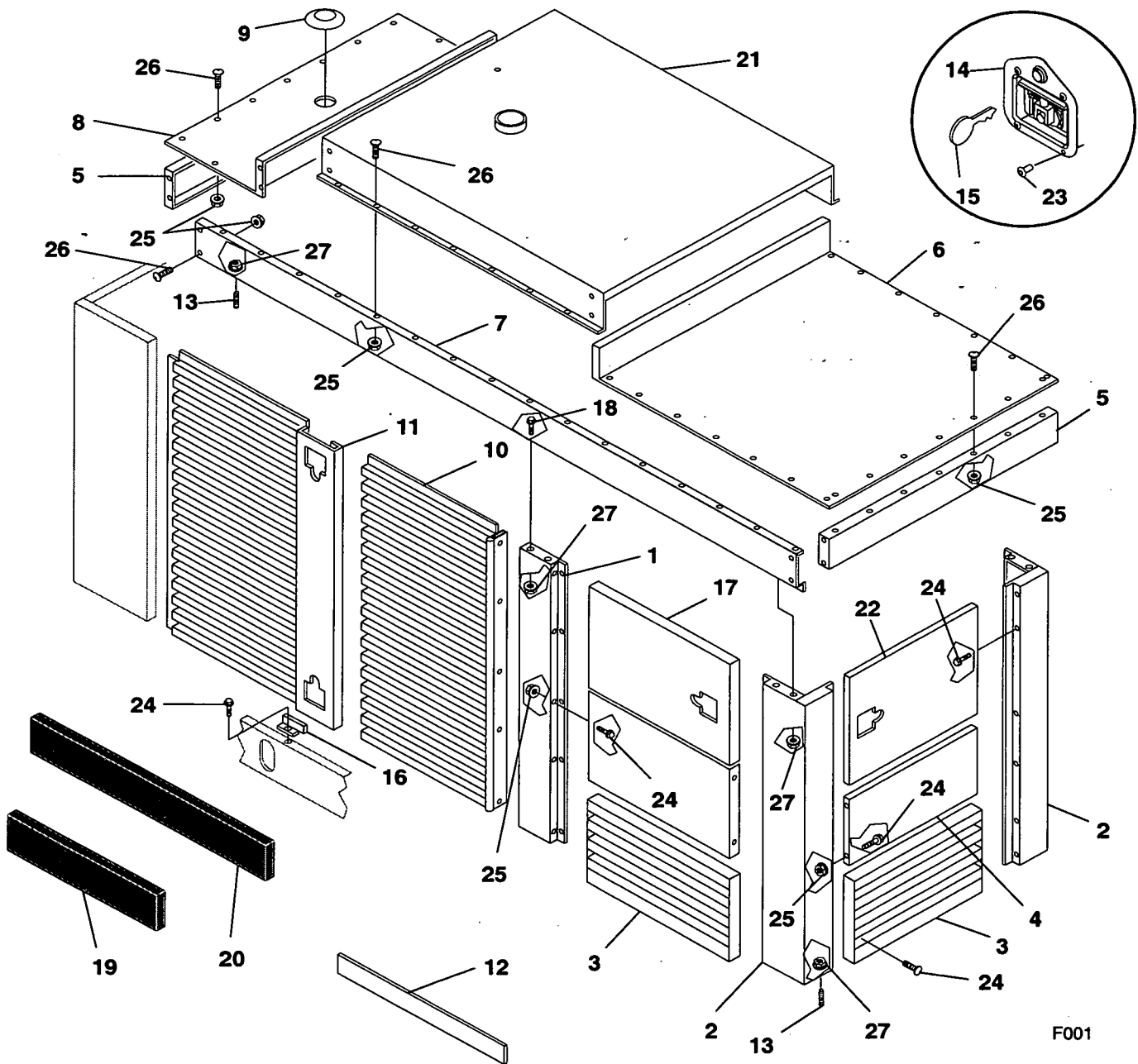


E074

Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3932-02	1	Guard, Fan (Left Side) (Bottom)	26			Guard, Radiator (Left Side)
2	821-5002-04	21	Screw, Self-Locking – Hex Washer Head (1/4–20 x 5/8")		130-4384-02	1	Narrow Skid
3	130-3932-01	1	Guard, Fan (Right Side) (Top)		130-4383-02	1	Wide Skid
4			Screw, Self-Locking – Hex Washer Head (3/8–16 x 3/4")	27	870-0550-09	12	Nut, Self-Locking – Hex Head (3/8–16)
	821-5004-02	34	Narrow Skid	28	130-4385	1	Grille
	821-5004-02	36	Wide Skid	29			Guard, Radiator (Right Side)
5	130-4373	2	Shroud, Fan		130-4384-01	1	Narrow Skid
6	800-0052	2	Screw, Cap – Hex Head (3/8–16 x 1–1/2")		130-4383-01	1	Wide Skid
7	130-4378	1	Tube, Radiator (Inlet)	30	130-3937	1	Guard, Belt (Right Side)
8	501-0551-02	1	Line, Flexible (39")	31	130-3936	1	Guard, Belt (Left Side)
9	503-1872-04	7	Clamp, Hose	32	130-3935	1	Guard, Belt (Top)
10	503-1379-02	2	Hose, Radiator (2–1/4" ID)	33	130-3934	1	Guard, Belt (Left Side – Bottom)
11	130-3660-01	2	Spacer	34	130-3933	1	Guard, Belt (Bottom)
12	503-1872-01	4	Clamp, Hose	35	502-0053	1	Elbow, Street Pipe – 45°
13	503-1811	1	Elbow, Radiator – 30°	36	332-2262	2	Tie, Cable
14	821-5003-01	12	Screw, Self-Locking – Hex Washer Head (5/16–18 x 1/2")	37	503-1026	1	Hose, Reducer (2–3/4" to 2–1/2")
15	130-4377	1	Tube, Radiator (Outlet)	38	518-0548-20	2	Clamp, Hose
16	504-0028	1	Cock, Drain (3/8")	39	130-4534	1	Fan, Radiator (6 Blade)
17	130-4355	1	Radiator (Includes Radiator Cap, Overflow Hose, and Safety Sight Gauge Kit)	40	130-3931-01	1	Spacer, Fan
18	130-3588	1	Cap, Radiator	41	800-0062	6	Screw, Cap – Hex Head (3/8–16 x 4")
19	503-1418	–	Hose – Bulk (1/4" ID) (Order By The Foot – 6 Feet Required)	42	526-0026	6	Washer, Flat (3/8")
20	130-4362	1	Kit, Gauge – Safety Sight – Radiator (Includes Glass Bulb and O-Ring)	43	503-1634	2	Hose, Rubber (1" ID x 4")
21	526-0029	2	Washer, Flat (3/8")	44	130-4075	1	Bracket, Belt Guard (Right Side – Rear)
22	130-4386	1	Support, Grille (Lower)	45	130-3951	1	Bracket, Belt Guard (Left Side)
23	130-4374	1	Wrapper, Fan Shroud	46	800-2085	2	Screw, Cap – Hex Head (M10 x 20mm)
24	503-1872-05	1	Clamp, Hose	47	130-4376	1	Tube, Radiator Fill
25	130-4387	1	Support, Grille (Upper)	48	130-4074	1	Bracket, Belt Guard (Right Side – Front)
				49	402-0070	4	Dampener, Vibration
				50	821-5003-03	10	Screw, Self-Locking – Hex Washer Head (5/16–18 x 3/4")

Housing

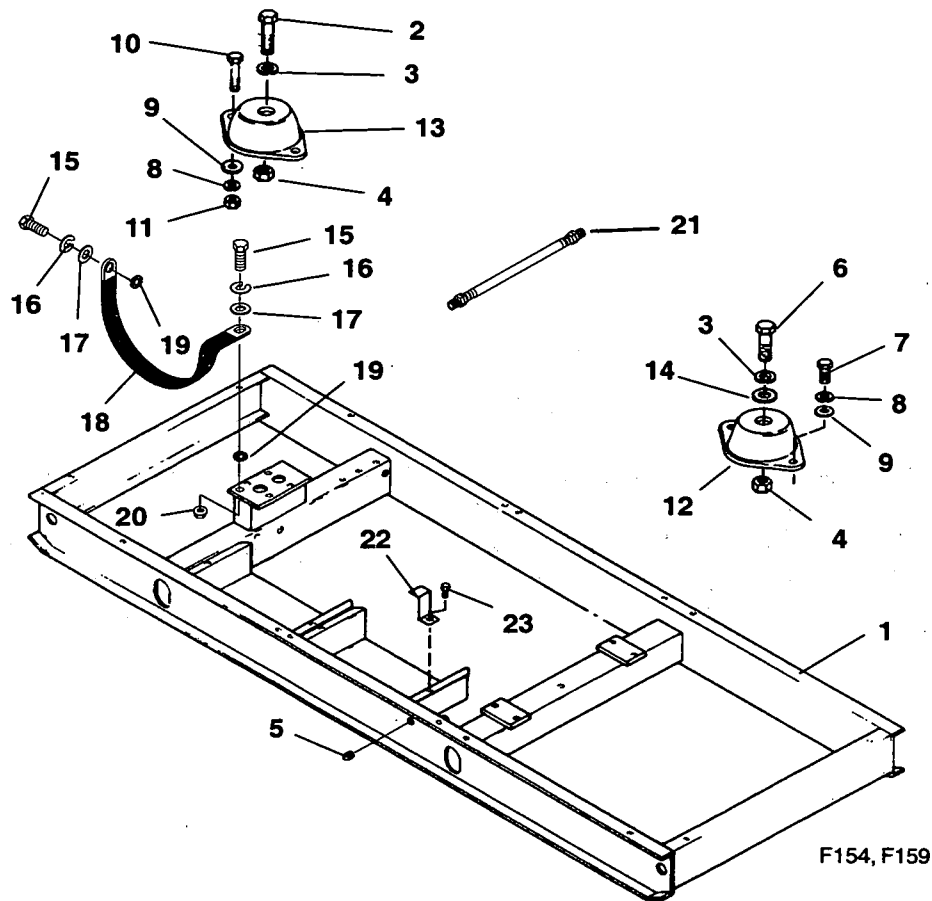


F001

Housing

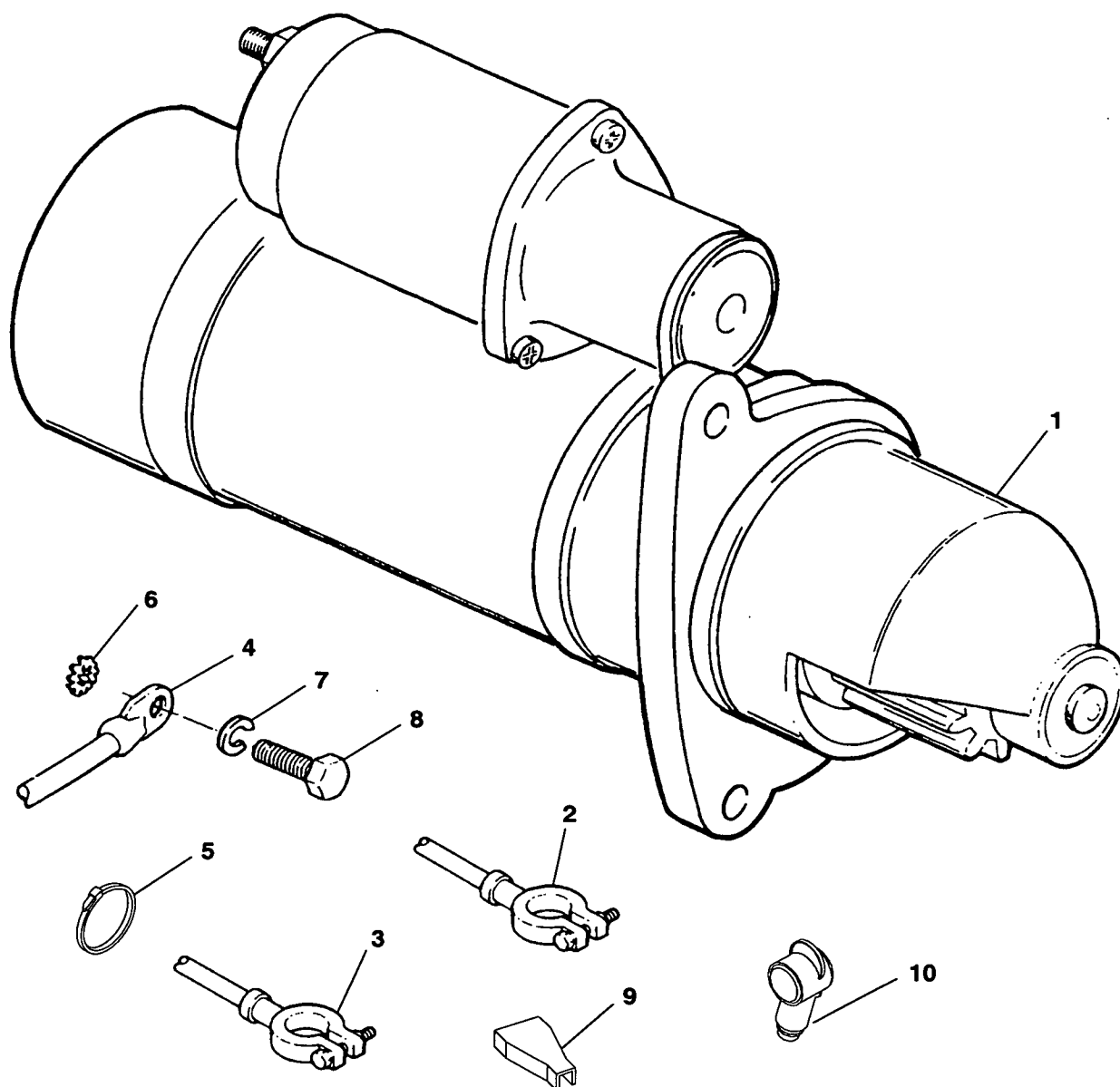
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-4110	2	Post - Center	13	520-0544	14	Stud (3/8-16 x 1-3/16")
2	405-4111	2	Post - Rear	14	406-0972-02	7	Latch (Includes Key)
3	405-4104	3	Grille	15	406-0782	7	Key, Latch
4	405-4112	3	Panel - Rear and Side	16	405-3980	2	Stop, Door
5	405-4401	2	Cap, End - Front and Rear	17	405-4107	2	Door - Side
6	405-4439	1	Roof - Rear	18	821-5004-02	10	Screw, Self-Locking - Hex Washer Head (3/8-16 x 3/4")
7	405-4395-01	2	Rail - Side	19	128-0154-06	1	Insulation, Foam (24" x 5-3/4" x 1/4")
8	405-5196	1	Roof - Front	20	128-0154	4	Insulation, Foam (58" x 6-3/4" x 1/4")
9	517-0245	1	Plug	21	405-4438-01	1	Roof - Center
10	405-4404	2	Door - Side - Without Opening For Door Handles (Right Side Center Location And Left Side Front Location)	22	405-4106	1	Door, Control
11	405-4405	2	Door - Side - With Opening For Door Handles (Right Side Front Location And Left Side Center Location)	23	818-0231-02	28	Rivet, Pop
12	895-0308	-	Tape, Sealing - Bulk (1/8" Thk x 1" Wide) (Order By The Foot - 6 Feet Required)	24	821-5003-03	45	Screw, Self-Locking - Hex Washer Head (5/16-18 x 3/4")
				25	870-0550-07	71	Nut, Locking - Hex (5/16-18)
				26	816-0098	59	Bolt, Carriage (5/16-18 x 5/8")
				27	870-0550-09	32	Nut, Locking - Hex (3/8-16)

Skid



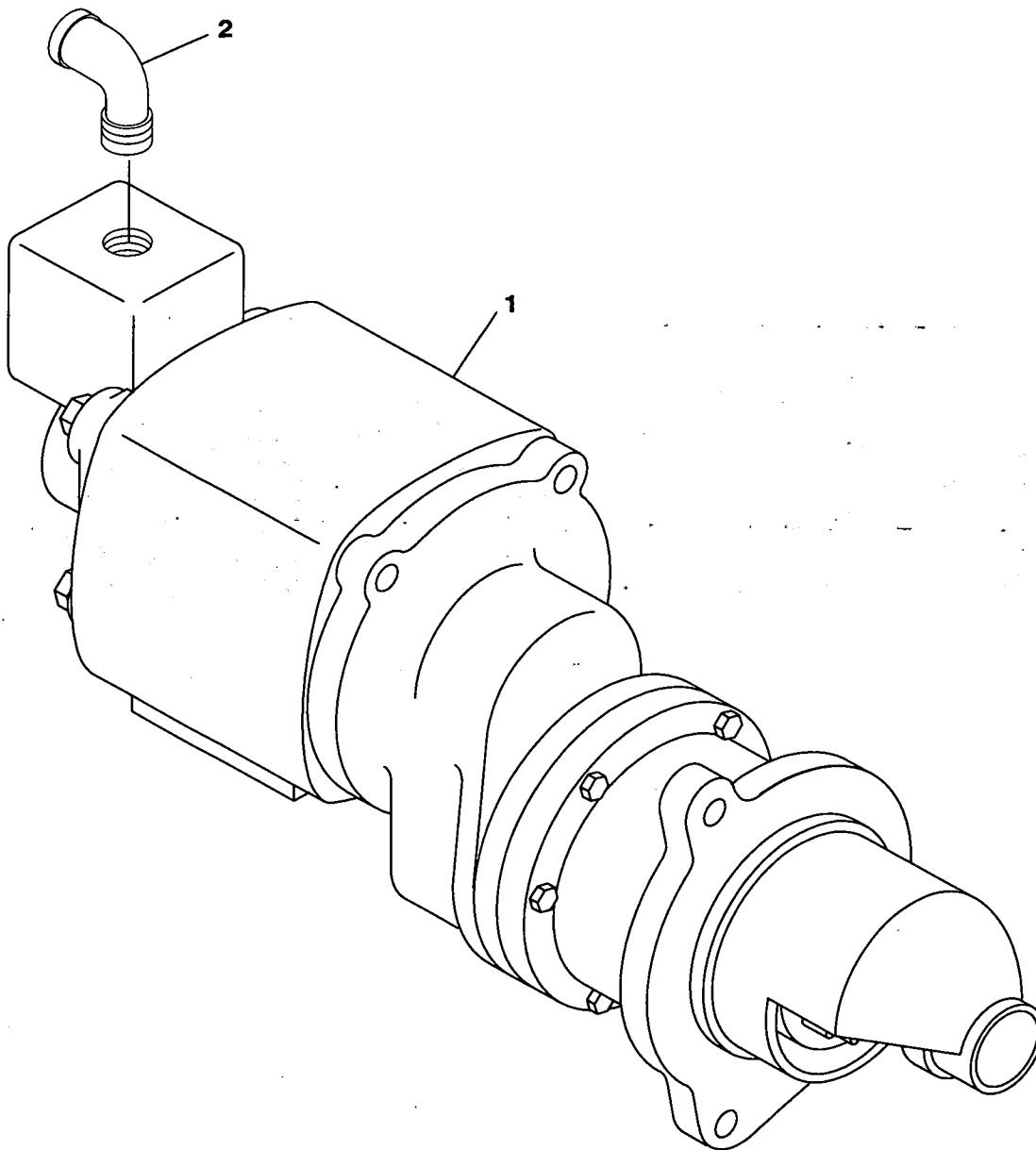
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Skid	13	402-0779-03	2	Cushion, Vibration - Engine End
	403-3248-01	1	Sets With 44" Wide Skid	14	526-0238-01	2	Washer, Flat (3/4")
	403-4530-02	1	Sets With 50" Wide Skid	15	800-2086	2	Screw, Cap - Hex Head (M10 x 25mm)
2	800-0156	2	Screw, Cap - Hex Head (3/4-10 x 2-1/4")	16	850-2010	2	Washer, Lock - Spring (M10)
3	850-0079	2	Washer, Lock - Spring (3/4")	17	526-0030	2	Washer, Flat (3/8")
4	862-0008	4	Nut, Hex (3/4-10)	18	337-0090	1	Strap, Ground
5	505-1379	1	Plug, Pipe (1/2")	19	856-0010	2	Washer, Lock - EIT (3/8")
6	800-0155	2	Screw, Cap - Hex Head (3/4-10 x 2")	20	870-2056	1	Nut, Self-Locking - Hex Head (M10)
7	800-0090	4	Screw, Cap - Hex Head (1/2-13 x 1")	21			Line, Fuel - Flexible
8	850-0060	8	Washer, Lock - Spring (1/2")		501-0751	1	Fuel In (1/2")
9	526-0219	8	Washer, Flat (1/2")		501-0752-01	1	Fuel Out (3/8")
10	800-0091	4	Screw, Cap - Hex Head (1/2-13 x 1-1/4")	22	800-0048	4	Screw, Cap - Hex Head (3/8-16 x 3/4)
11	862-0016	4	Nut, Hex (1/2-13)	23	416-0850	4	Bracket, Retaining - Battery
12	402-0779-07	2	Cushion, Vibration - Generator End				

Electric Starter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-2087	1	Starter (24VDC)	5	332-0941	2	Tie, Cable
2			Cable, Battery	6	856-0010	1	Washer, Lock - W/EIT (3/8")
	416-1092	2	Sets With 50" Wide Skid (35")	7	850-2010	1	Washer, Lock - Spring (M10)
	416-1088	2	Sets With 44" Wide Skid (44")	8	800-2085	1	Screw, Cap - Hex Head (M10 x 20mm)
3			Cable, Battery - Jumper	9	416-1019	1	Boot, Battery - Red
	416-1096	1	Sets with 44" Wide Skid	10	416-1084	1	Boot, Starter - Red
	416-1097	1	Sets with 50" Wide Skid				
4	416-0680	1	Cable, Battery - Starter to Ground (14-1/2")				

Air Starter

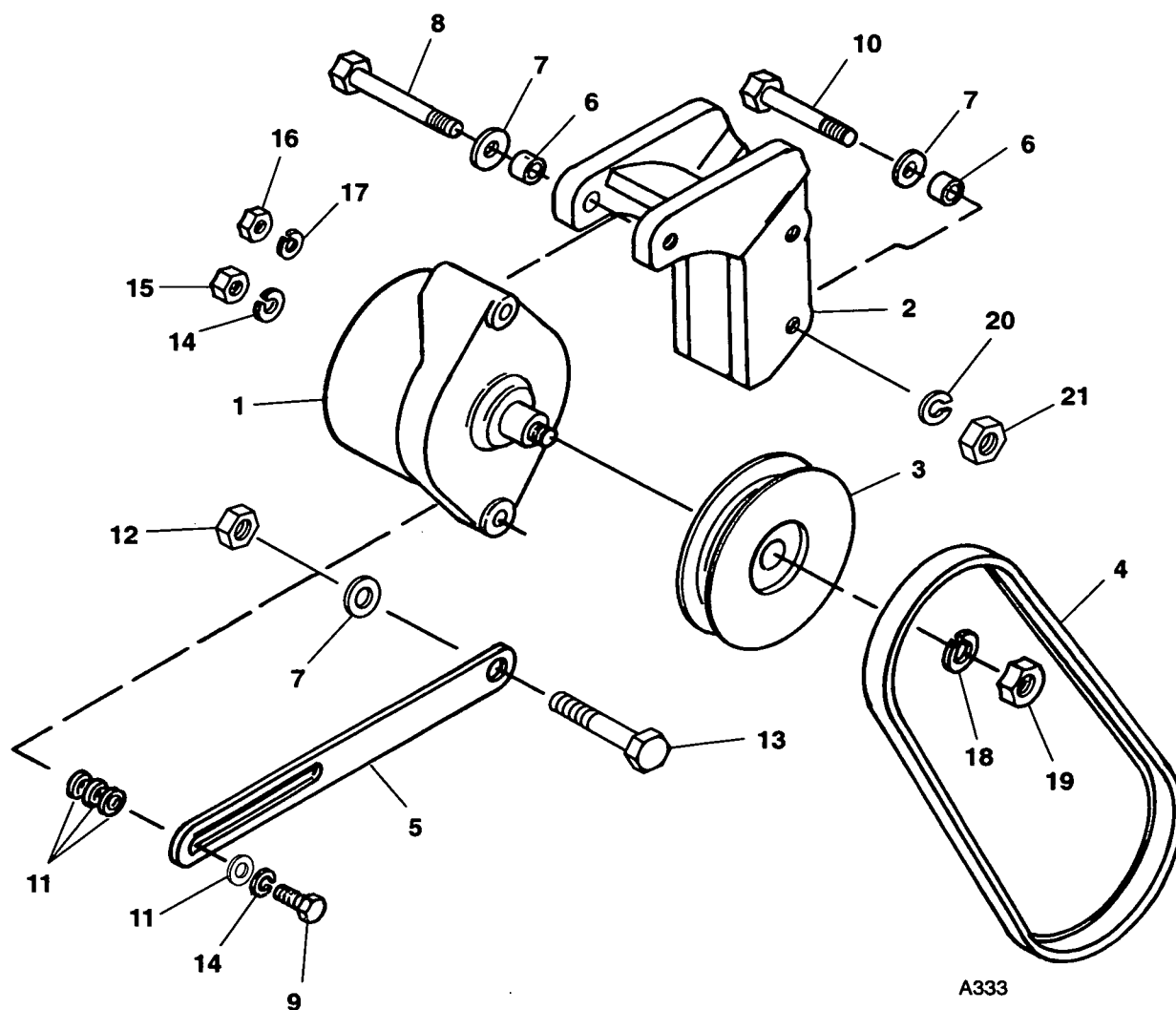


A300

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

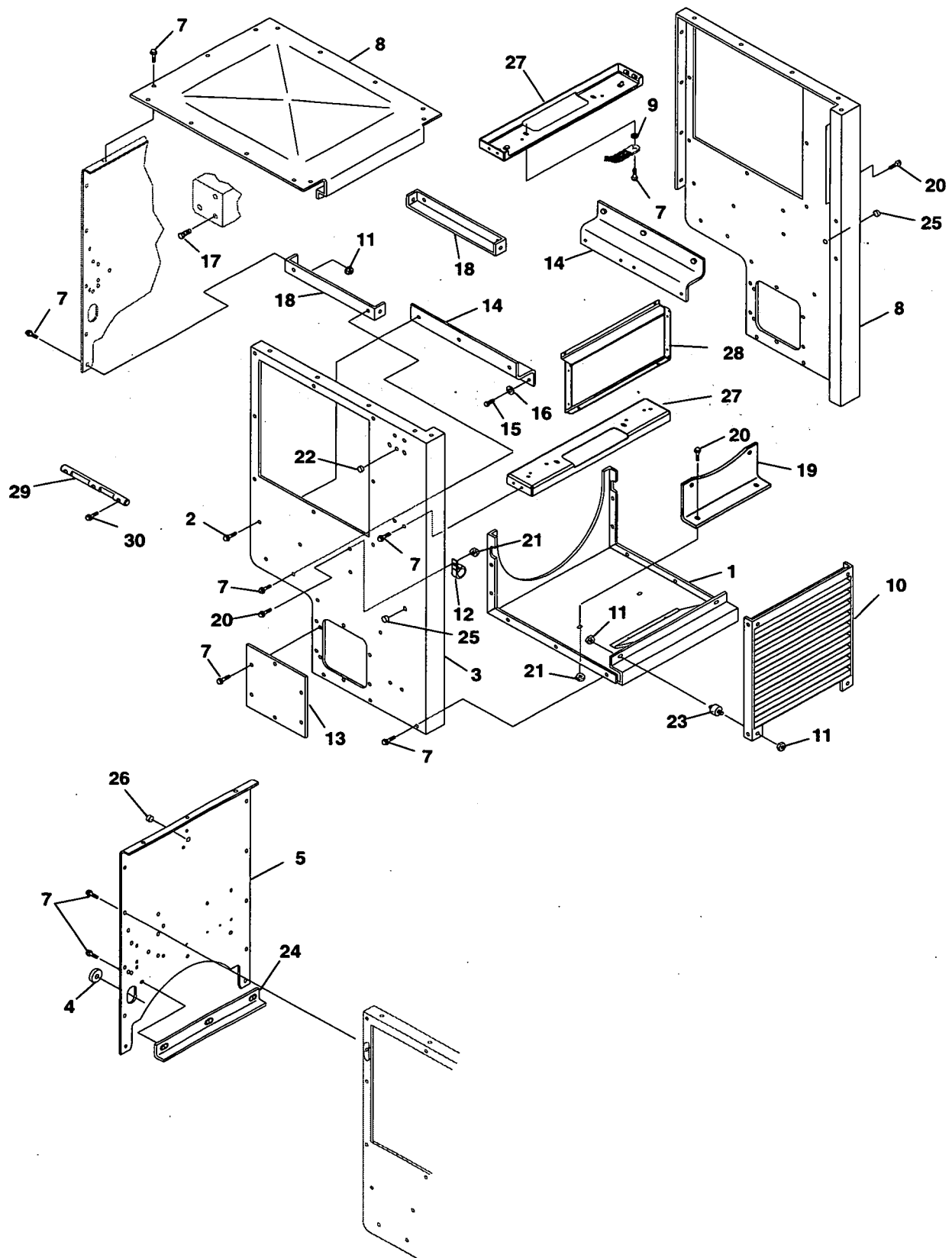
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	502-1054-07	1	Elbow, Street Pipe - 90°

Alternator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-1983-02	1	Alternator (24 Volt DC - 55 Amp)	11	526-0030	4	Washer, Flat (M8)
2	191-2072	1	Bracket, Alternator	12	870-2056	1	Nut, Lock (M10)
3	191-1984	1	Pulley, Alternator	13	800-2093	1	Screw, Cap - Hex Head (M10 x 60mm)
4	511-0161-02	1	Belt, V-Ribbed	14	850-2008	2	Washer, Lock - Spring (M8)
5	191-1977	1	Bracket, Alternator Adjusting	15	860-2008	1	Nut, Hex (M8)
6	191-1989-07	3	Spacer, Mounting	16	850-2005	2	Washer, Lock - Spring (M5)
7	526-2120	4	Washer, Flat (M10)	17	860-2006	2	Nut, Hex (M5)
8	718-1067	1	Screw, Cap - Hex Head (M10 x 90mm)	18	851-0039	1	Washer, Lock - Spring (M16)
9	800-2060	1	Screw, Cap - Hex Head (M8 x 35mm)	19	870-2161	1	Nut, Hex (M16)
10	718-1067	2	Screw Cap - Hex Head (M10 x 90mm)	20	850-2010	2	Washer, Lock - Spring (M10)
				21	860-2009	2	Nut, Hex (M10)

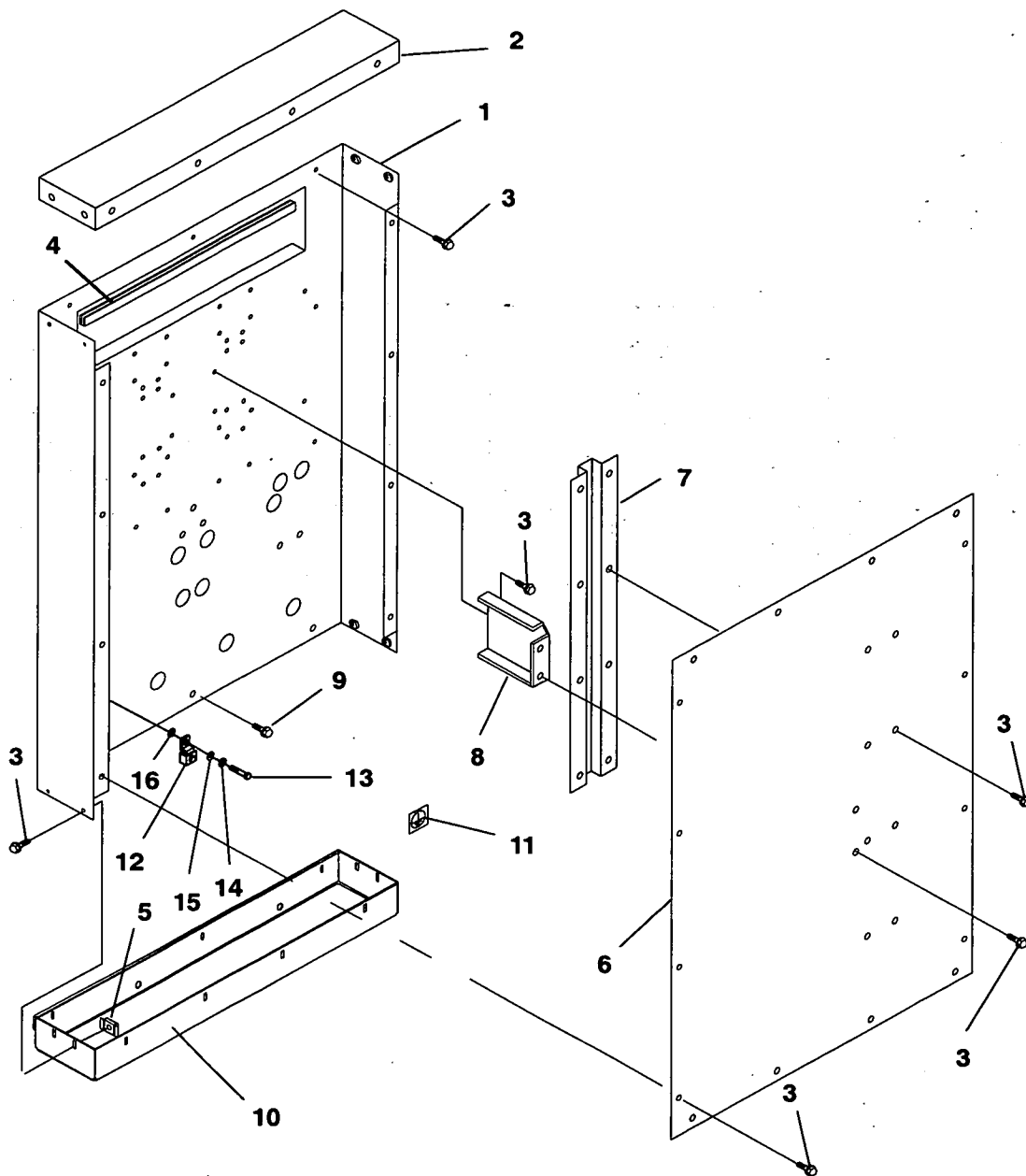
Control Housing



Control Housing

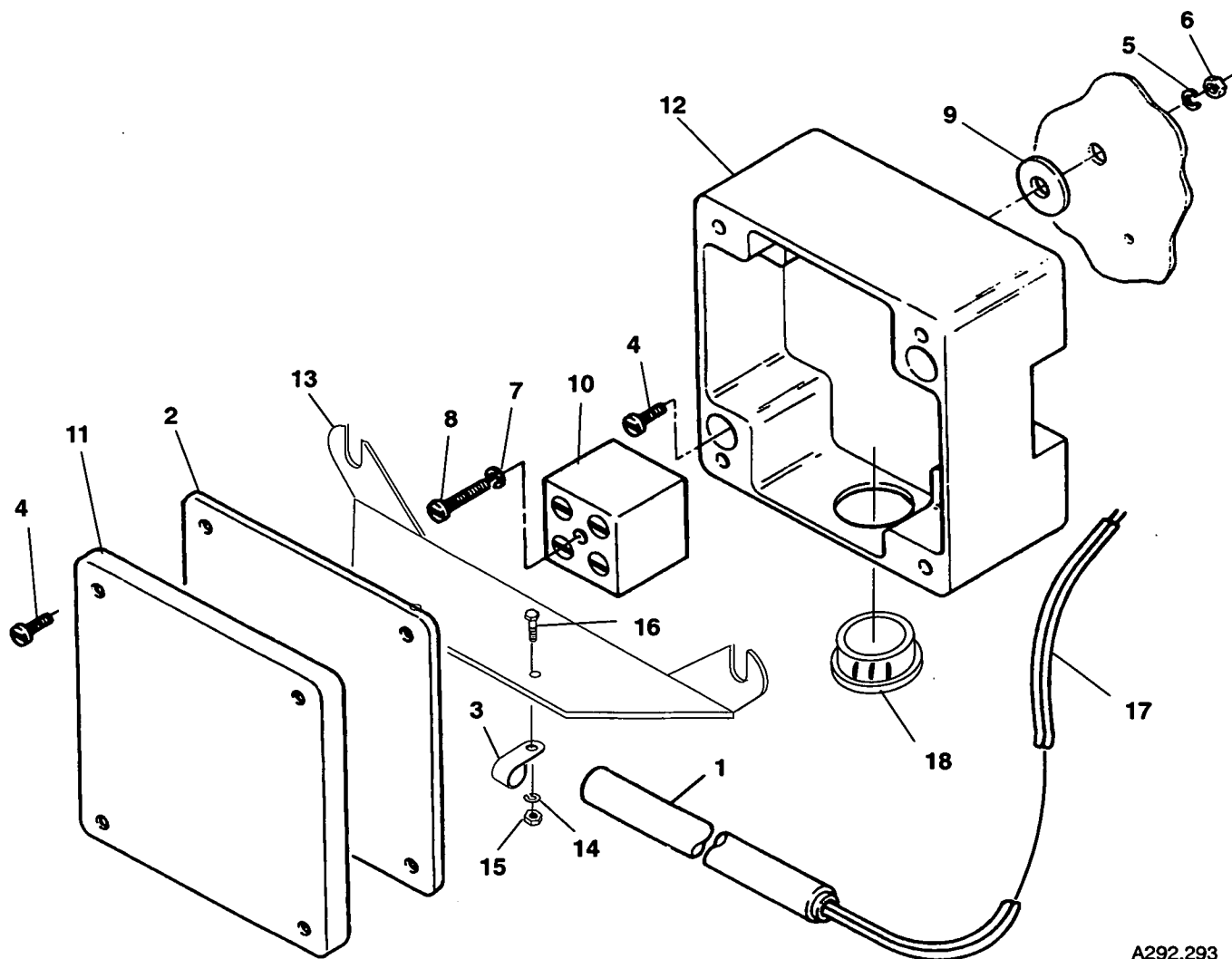
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3270-01	1	Panel – Bottom	17	800-2114	1	Screw, Cap – Hex Head (M12 x 40mm)
2	821-6004-01	6	Screw, Self-Locking – Hex Washer Head (M10 x 20mm)	18	319-3257	2	Panel, Support
3	319-3287-01	1	Panel – Right Side	19	319-1345	1	Bracket, Panel
4	508-1057	1	Grommet, Rubber (Fits 2-1/4" Hole)	20	821-6003-02	5	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)
5	319-3289	1	Panel – Front	21	870-2055	5	Nut, Locking – Hex Head (M8)
6	301-9512	1	Cover, Top	22	517-0131	1	Plug, Hole (Fits 3/8" Hole)
7	821-6002-03	62	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	23	402-0729	4	Isolator, Vibration
8	319-3287-02	1	Panel – Left Side	24	319-3291	1	Angle, Stiffener
9	856-0006	1	Washer, Lock – W/EIT (1/4")	25	517-0136	2	Plug, Hole (Fits 3/4" Hole)
10	319-2768	1	Grille	26	517-0135	1	Plug, Hole (Fits 5/8" Hole)
11	870-2054	8	Nut, Locking – Hex Flange Head (M6)	27	405-7249-02	2	Rail, Enclosure (Support)
12	518-0548-02	2	Clamp, "J"	28	405-7254-02	1	Rail, Enclosure (Front)
13	301-9629	2	Cover, Side – Lower	29	332-3740	1	Clamp, Strain
14	319-3255	2	Bracket, Mounting	30	814-2150	3	Screw, Flat Head – Cross Recessed (M3 x 0.5 x 10)
15	800-2111	6	Screw, Cap – Hex Head (M12 x 25mm)				
16	850-2012	6	Washer, Lock – Spring (M12)				

Entrance Box



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3169	1	Box, Entrance	9	821-2035	2	Screw, Self-Locking - Hex Washer Head (M6 x 25mm)
2	319-1915	1	Panel (Top)	10	319-3183	1	Panel (Bottom)
3	821-6002-03	44	Screw, Self-Locking - Hex Washer Head (M6 x 16mm)	11	098-6537	1	Label, Grounding
4	508-1092	-	Edging - Bulk (Order By The Foot - 2 Feet Required)	12	332-2001	1	Lug, Solderless (CSA Grounding)
5	870-0504	16	Nut, Self-Retaining (M6)	13	800-2088	1	Screw, Cap - Hex Head (M10 x 1.5 x 35)
6	319-1916	1	Cover	14	850-2010	1	Washer, Lock - Split
7	319-3284	1	Brace, Cover	15	526-2120	1	Washer, Flat (M10)
8	319-3251		Brace, Cover	16	856-0010	1	Washer - W/EIT

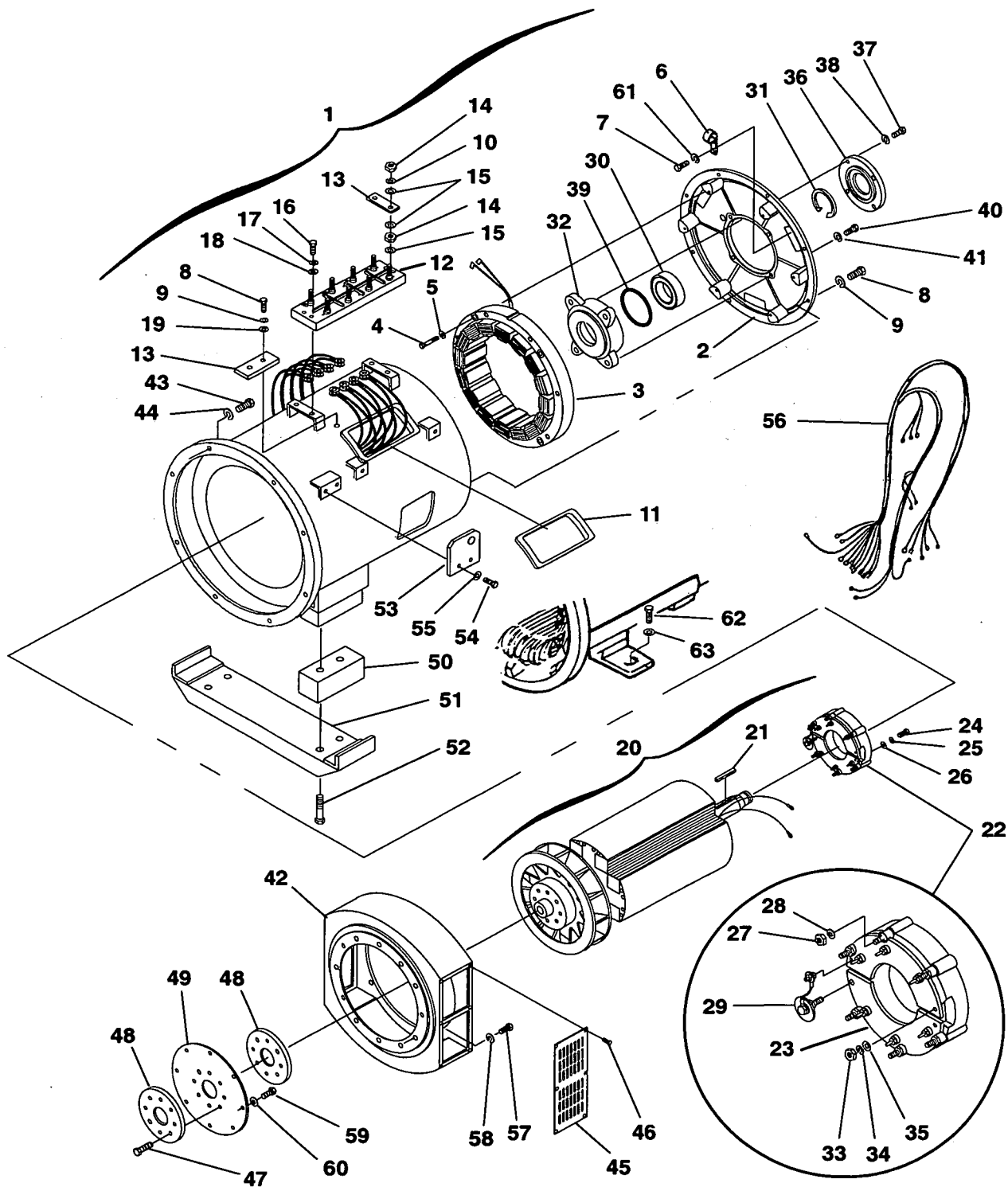
Generator Heater



A292,293

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0438-03	2	Cartridge, Heater (150 Watt)	9	508-0228	1	Grommet
	333-0438-04	2	120 Volt	10	332-3023	1	Block, Terminal
2	330-0141-04	1	240 Volt	11	330-0141-03	1	Cover, Box
3	332-3024-14	4	Gasket, Cover	12	330-0142	1	Box, Terminal
4	822-3075	6	Clamp, Loop	13	232-3850	1	Bracket, Mounting - Heater
5	850-2004	2	Screw, Machine - Slotted Pan Head (M4 x 16mm)	14	850-2005	2	Washer, Lock - Spring (M5)
6	860-2005	2	Washer, Lock - Spring (M4)	15	860-2006	2	Nut, Hex (M5)
7	850-2003	1	Nut, Hex (M4)	16	800-2008	2	Screw, Cap - Hex Head (M5 x 16mm)
8	822-3047	1	Washer, Lock - Spring (M3)	17	898-1254-25	1	Sleeving - Heater Leads (59")
			Screw, Machine - Pan Head (M3 x 20mm)	18	517-0021	1	Plug, Dot Button

Generator



Generator

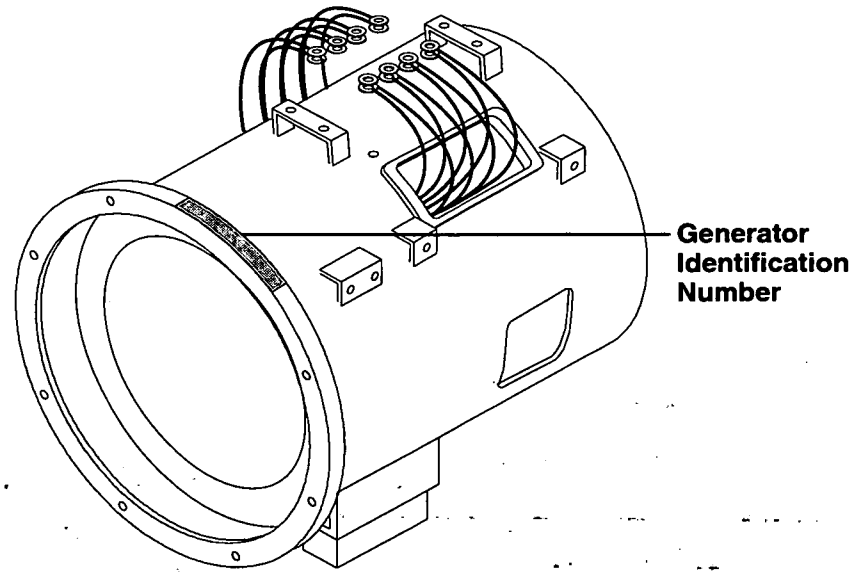
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	-	1	Stator Assembly, Generator – Complete (See Separate Page For Part Numbers) (Includes Parts Marked *)	35	526-2060	2	#Washer, Flat (M5)
2	211-0431	1	*Bell, End	36	232-3981-01	1	#Cover, Bearing Housing
3	220-4248	1	*Stator, Exciter	37	800-2087	4	#Screw, Cap – Hex Head (M10 x 30mm)
4	800-2066	6	*Screw, Cap – Hex Head (M8 x 65mm)	38	850-2010	4	#Washer, Lock – Spring (M10)
5	850-2008	6	*Washer, Lock – Spring (M8)	39	509-0266-03	1	#O-Ring
6	425-1799	1	*Clamp, Cable	40	800-2091	4	Screw, Cap – Hex Head (M10 x 50mm)
7	800-2004	1	*Screw, Cap – Hex Head (M5 x 12mm)	41	850-2010	4	Washer, Lock – Spring (M10)
8	800-3017-39	9	*Screw, Cap – Hex Head (M10 x 35mm)	42	231-0322	1	Adapter, Generator
9	850-0114-55	9	*Washer, Lock – Spring (M10)	43			Screw
10	850-2012	8	*Washer, Lock – Spring (M12)		800-3017-56	6	Cap – Hex Head (M12 x 40mm)
11	508-0306	2	*Grommet		725-1103	2	Socket Head (M12 x 40mm) (Bottom Holes)
12	232-3482	1	*Panel, Terminal	44	850-0114-56	8	Washer, Lock – Spring (M12)
13	332-3009	4	*Link, Terminal	45	234-0889	2	Guard, Fan
14	860-2010	16	*Nut, Hex (M12)	46	821-6001-02	12	Screw, Self-Locking – Hex Washer Head (M5 x 12mm)
15	526-2140	24	*Washer, Flat (M12)	47	720-1146	8	Screw, Cap – Hex Head (M20 x 60mm)
16	800-2061	4	*Screw, Cap – Hex Head (M8 x 40mm)	48	232-3520-01	2	Spacer, Drive Disc
17	850-2008	4	*Washer, Lock – Spring (M8)	49	232-3522	4	Disc, Drive
18	526-2100	4	*Washer, Flat (M8)	50	232-3524	2	Spacer, Generator Foot
19	526-2120	1	*Washer, Flat (M10)	51	232-3722	1	Foot, Generator
20	-	1	Rotor Assembly, Generator – Complete (See Separate Page For Part Numbers) (Includes Parts Marked #)	52	800-2244	4	Screw, Cap – Hex Head (M24 x 80mm)
21	515-0300-01	1	#Key	53	232-3523	2	Bracket, Generator Lifting
22	201-3460	1	#Rotor Assembly, Exciter (Includes Parts Marked ^)	54	800-3017-55	4	Screw, Cap – Hex Head (M12 x 35mm)
23	357-0093	1	#^Rectifier Assembly (Includes Diodes and Varistor)	55	850-0114-56	4	Washer, Lock – Spring (M12)
24	800-2042	4	#^Screw, Cap – Hex Head (M6 x 60mm)	56	338-3348	1	Harness, Wiring (5 Wire, 23") (4,5,6,7,8 to 4,5,6,7,8) (Not Used On All Models)
25	850-2006	4	#^Washer, Lock – Spring (M6)	57	800-0074	12	Screw, Cap – Hex Head (7/16-14 x 1-3/4")
26	526-2080	4	#^Washer, Flat (M6)	58	850-0055	12	Washer, Lock – Spring (7/16")
27	870-2064-02	6	#^Nut, Hex (M5)	59	805-0032	8	Bolt, Place (1/2-13 x 1-1/4")
28	526-2060	6	#^Washer, Flat (M5)	60	526-0035	8	Washer, Flat (1/2")
29	249-0797	1	Kit, Diode (Includes Varistor And All Diodes)	61	850-2005	1	*Washer, Lock – Spring (M5)
30	510-0168	1	#Bearing, Ball	62	800-0183	2	Screw, Cap – Hex Head (1-8 x 2-1/2")
31	518-0018	1	#Ring, Retaining	63	850-0086	2	Washer, Lock – Spring (1")
32	232-3518-01	1	#Housing, Bearing				
33	860-2006	2	#Nut, Hex (M5)				
34	850-2005	2	#Washer, Lock – Spring (M5)				

* – Parts Included In Generator Stator Assemblies

– Parts Included In Generator Rotor Assemblies

^ – Parts Included In 201-3460 Exciter Rotor Assembly

Generator Rotor and Stator Part Numbers

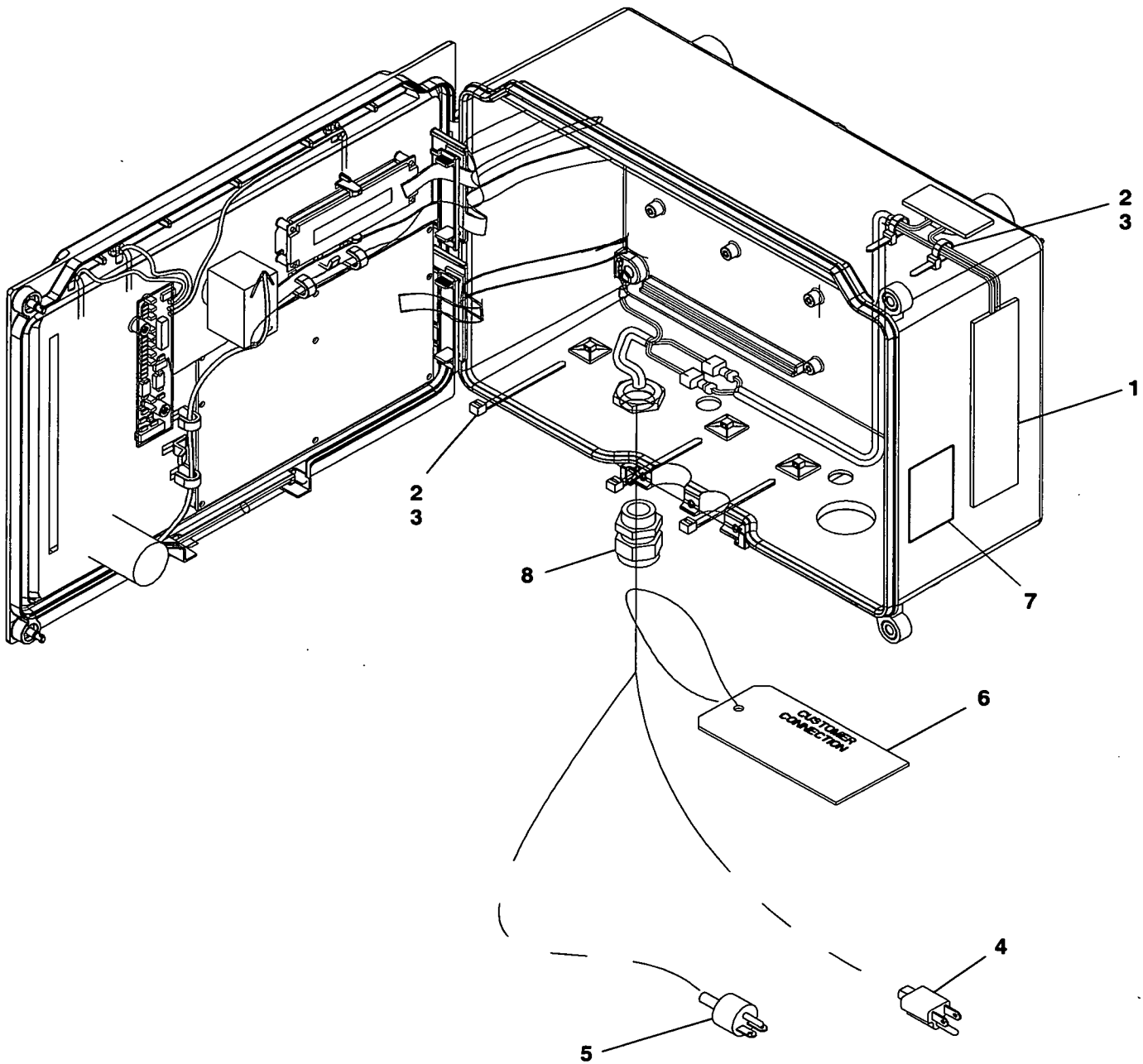


Service replacement part numbers for the main generator stator and rotor can be determined by locating the Cummins Power Generation 249-XXXX-XX generator identification number. This number is stamped on the engine end of the main stator adapter ring in the area shown in the above illustration. Find the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

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

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

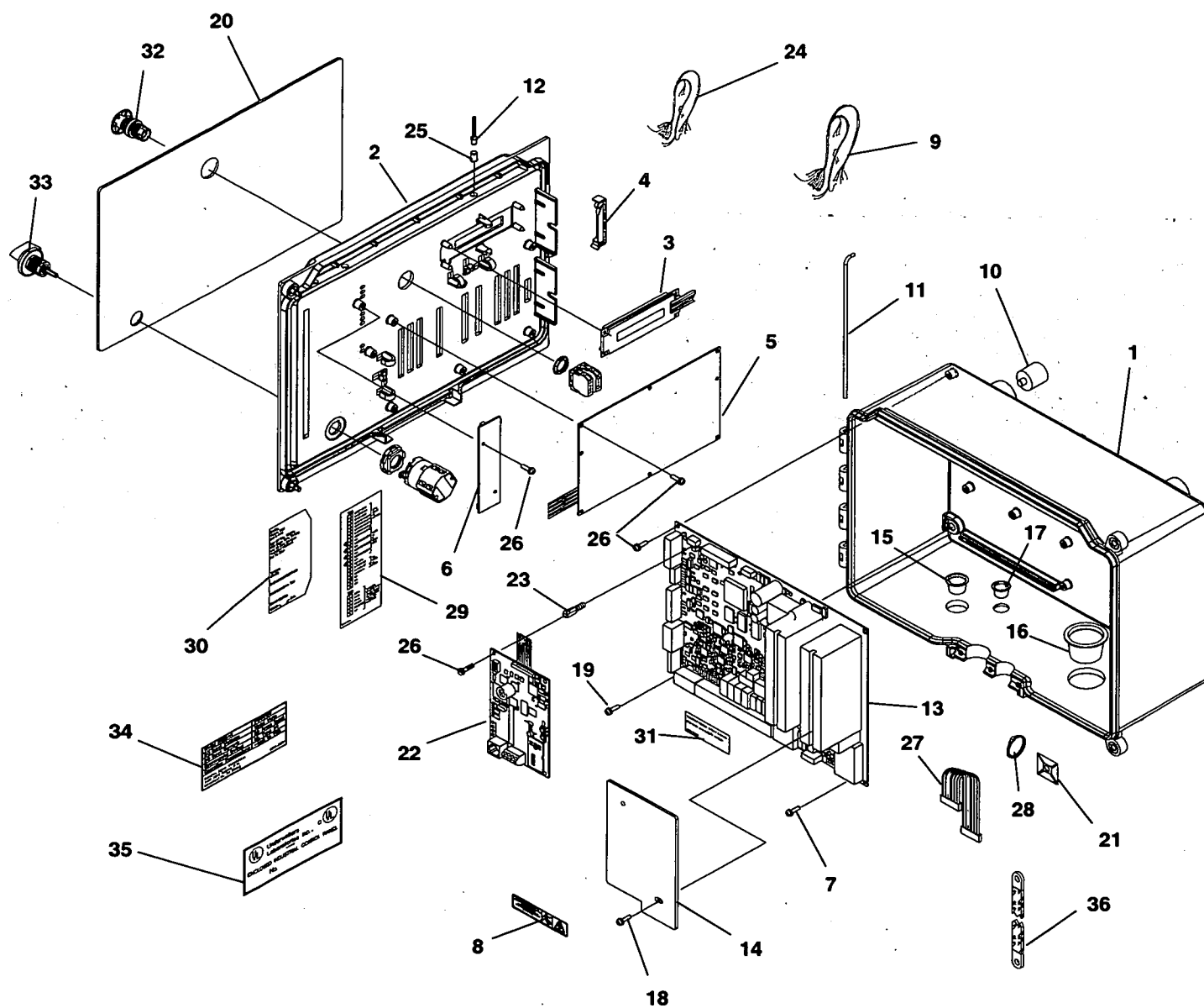
Control Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater, Control
	333-0661-01	1	120V
	333-0661-02	1	240V
2	332-2420	3	Mount, Cable Tie
3	332-1445	3	Tie, Cable
4	335-0173	1	Cable, Control Heater - 120V
5	335-0173-01	1	Cable, Control Heater - 240V

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6			Tag, Heater
	098-6927	1	120V
	098-6928	1	240V
7	098-6195	1	Label, Caution
8	323-2003-02	1	Strain Relief

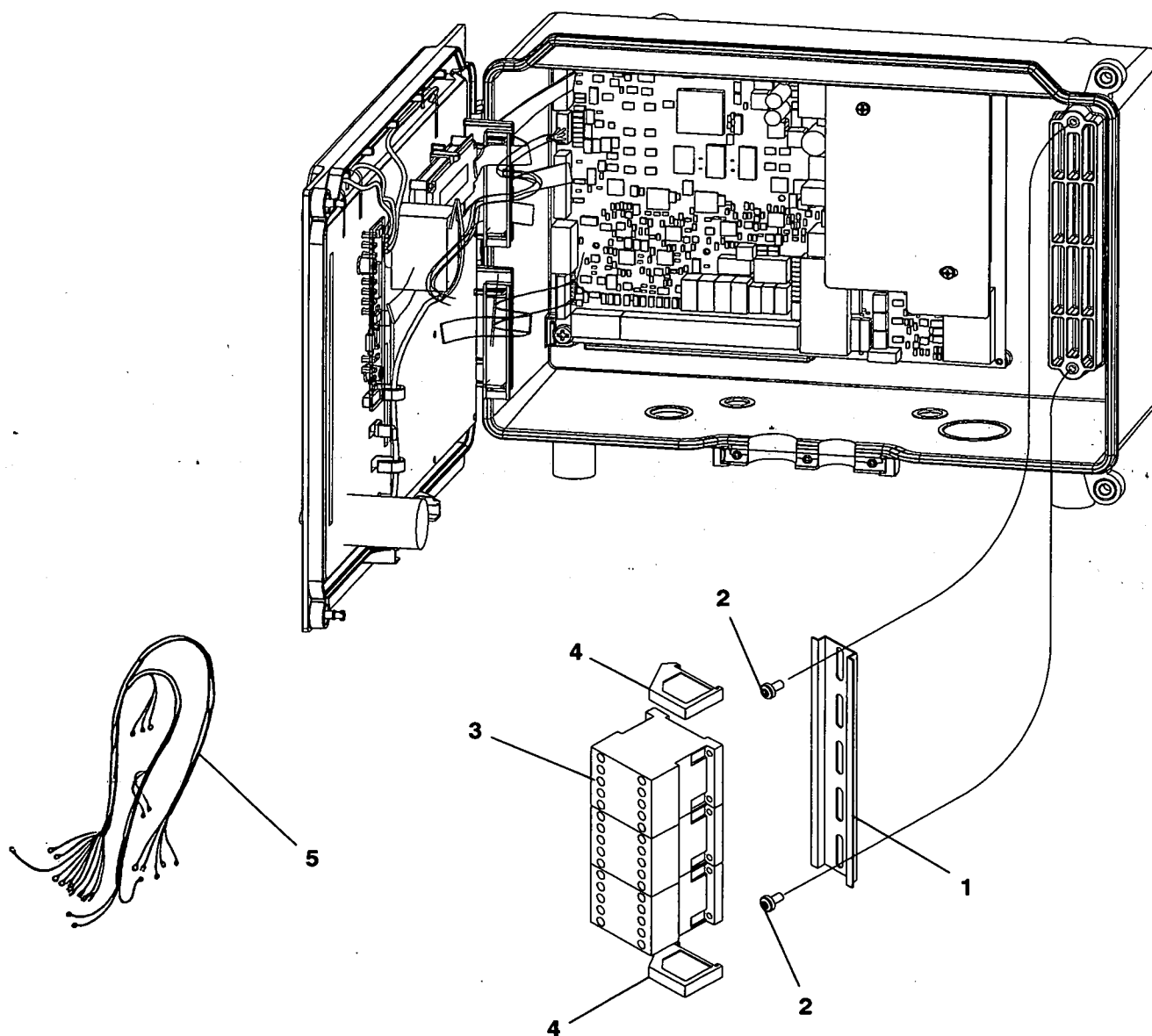
Control



Control

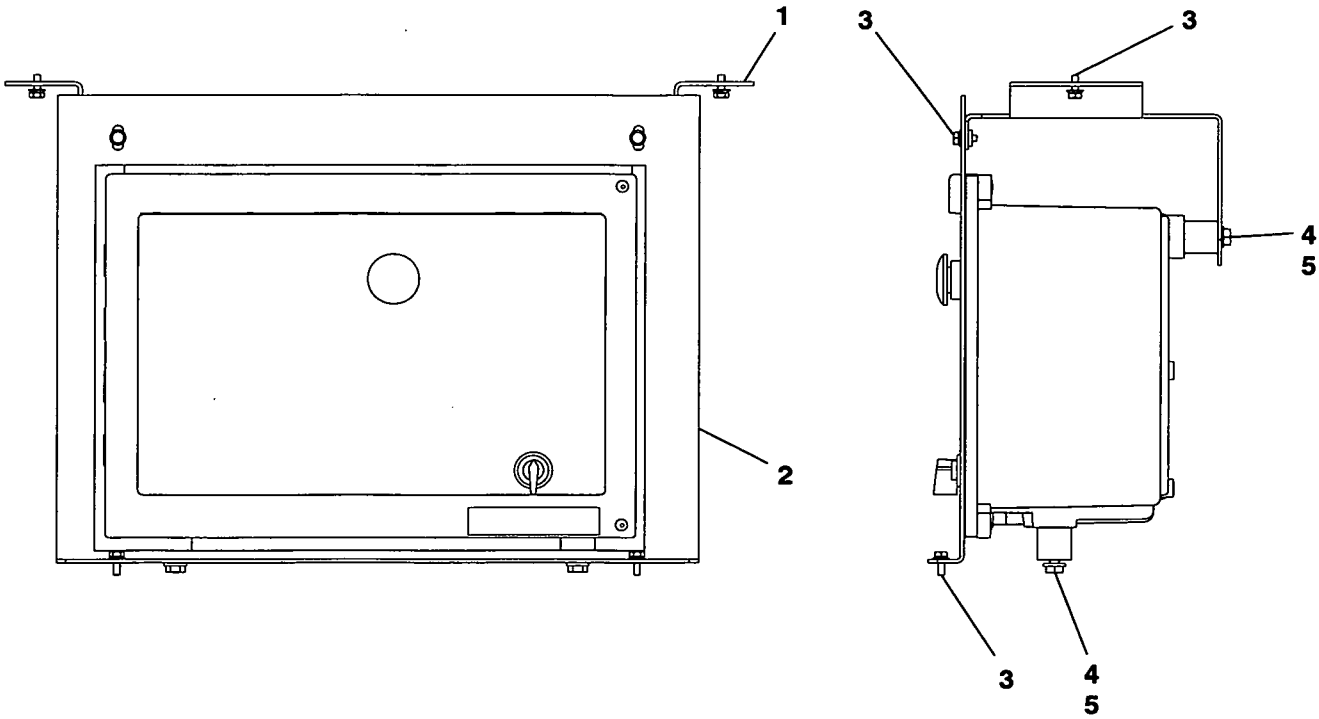
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4487	1	Box, Control	20			Panel, Membrane
2	319-4488	1	Door Control		300-5446	1	With Bargraph
3	300-5467	1	Display, Digital		300-5447	1	Without Bargraph
4	332-3896	4	Clamp, Cable	21	332-2420	2	Mount, Cable Tie
5	300-5180	1	Board, Printed Circuit - Bargraph	22	327-1275	1	Board, Printed Circuit - NCM
6	300-5383	1	Board, Printed Circuit - LED	23	870-2213-02	4	Standoff, Hex Threaded - With NCM
7	819-1137-02	4	Screw, Pan Head - Cross Recessed (M3 x 8)	24	338-3994	1	Harness, Panel Light
8	098-7904	2	Label, Danger	25	322-0488	3	Lens, LED
9	338-3991	1	Harness, Control - Door	26			Screw, Pan Head - Cross Recessed (M3 x 6)
10	402-0764-01	4	Mount, Isolator		819-1137-01	9	Without Bargraph
11	406-0845	1	Pin, Hinge		819-1137-01	15	With Bargraph
12	322-0491	3	Lamp, LED	27	335-0189	1	Cable, Ribbon
13	300-5381	1	Board, Printed Circuit - Base	28	332-1445	3	Tie, Cable
14	319-4497	1	Guard, Electrical	29	098-7918	1	Label, Information
15	517-0356	1	Plug, Hole (Fits 22.5mm DIA. Hole)	30	098-7961-01	1	Label, Information - Panel Insert
16	517-0357	1	Plug, Hole (Fits 38mm DIA. Hole)	31	098-7989	1	Label, Instruction - Torque
17	517-0355	2	Plug, Hole (Fits 16mm DIA. Hole)	32	308-0999	1	Switch, Emergency Stop
18	815-0792-02	2	Screw, Machine - Pan Head (M4 x 0.7 x 8)	33	308-1085	1	Switch, Selector
19	819-1144	2	Screw, Pan Head - Cross Recessed (M6 x 8)	34	098-8057	1	Label, Information - Rating
				35	098-6984	1	Label, UL
				36	337-0049	1	Strap, Bond

Control Relay



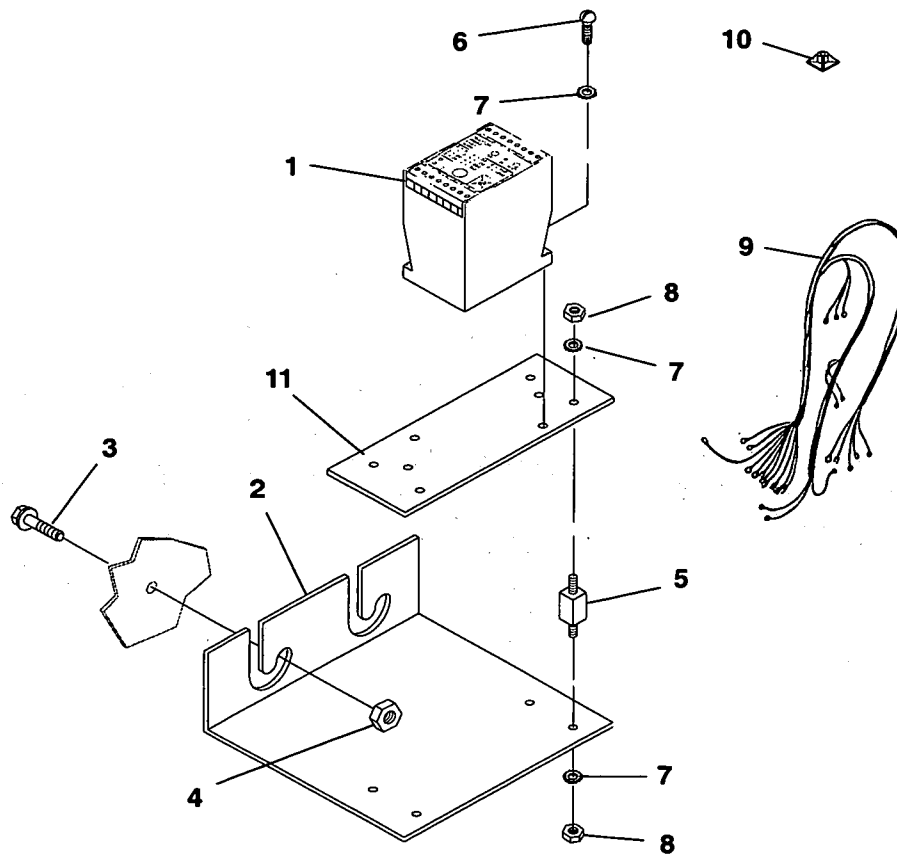
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-3842	1	Rail, Terminal Block	4	332-2878	2	Bracket, End - Terminal
2	823-1006-02	2	Screw, Pan Head (M5)	5	338-4209	1	Harness, Relay
3	307-2874	3	Relay, Control - 24V (K10, K11, K12)				

Control Installation



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7246-02	1	Rail, Enclosure - Control	4	526-2100	4	Washer, Flat (M8)
2	405-7248-02	1	Panel, Enclosure - Control	5	800-2054	4	Screw, Cap - Hex Head (M8 x 1.25 x 14)
3	821-6002-02	6	Screw, Hex Head (M6 x 1.0 x 12)				

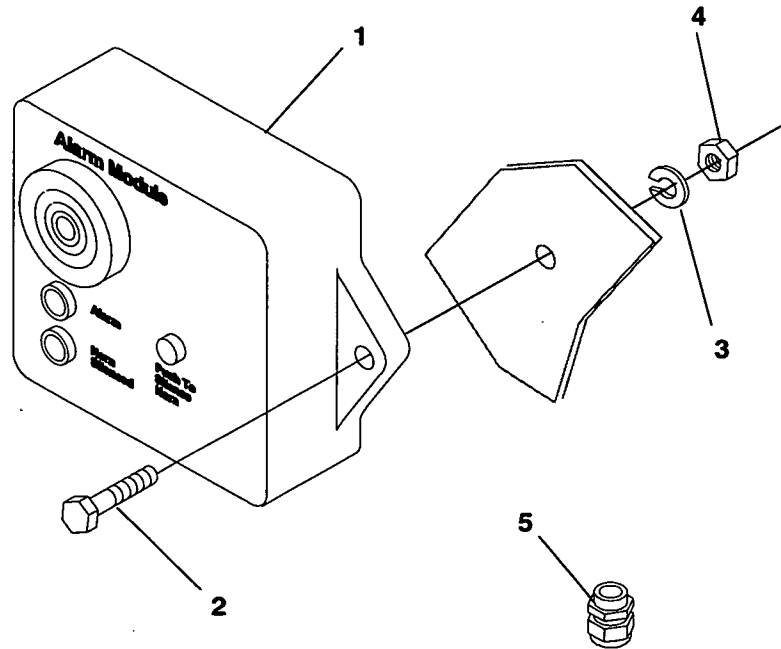
Ground Fault Relay



H550

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2843	1	Relay (GFA)	6	812-0081	2	Screw, Machine – Round Head (#8-32 x 5/8")
2	301-6987	1	Bracket, Mounting	7	853-0005	8	Washer, Lock – EIT (#8)
3	821-0017	2	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")	8	870-0221	10	Nut, Hex (#8-32)
4	870-0257	2	Nut, Hex – Self-Locking (5/16-18)	9	338-3232	1	Harness, Wiring
5	402-0354	4	Mount, Shock	10	332-2420	2	Mount, Cable Tie
				11	319-0030	1	Plate, Mounting

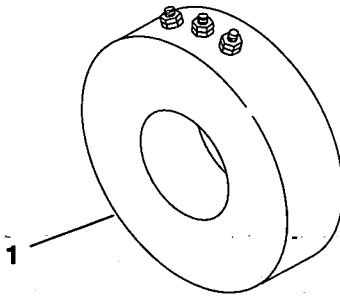
Alarm Module



KA08

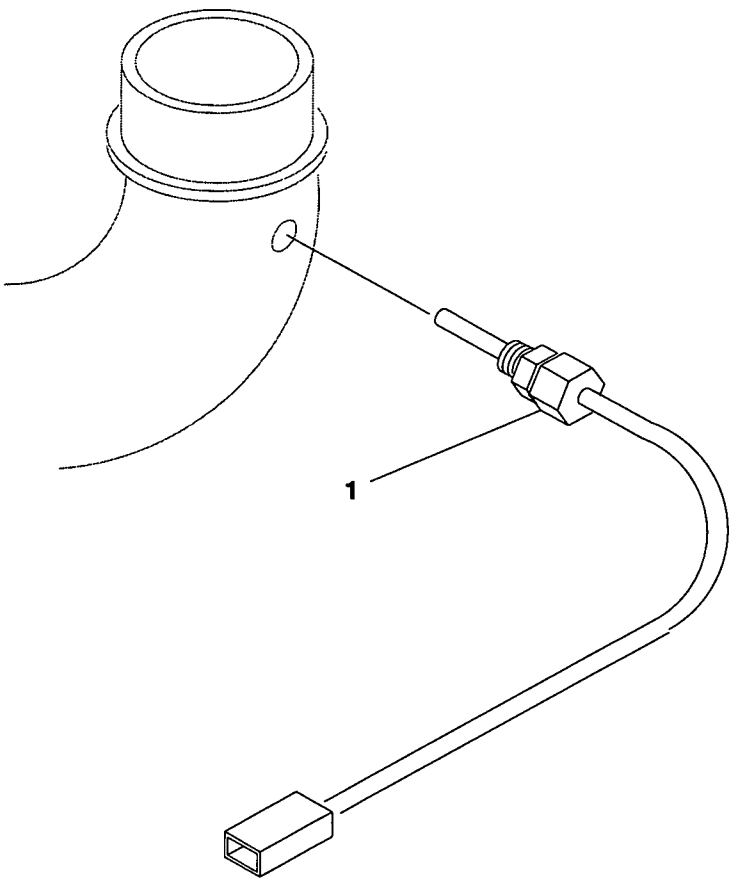
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-3998-01	1	Module, Alarm (24V)	3	850-0040	2	Washer, Lock (1/4)
2	800-0006	2	Screw, Cap - Hex Head (1/4-20 x 7/8)	4	862-0001	2	Nut, Hex (1/4-20)
				5	323-2003-01	1	Strain Relief

Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-2057-19 A/R 302-2057-21 A/R		Transformer, Current Ratio 725/1 or 1450/1 Ratio 789/1 or 1578/1				

Pyrometer



H244

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

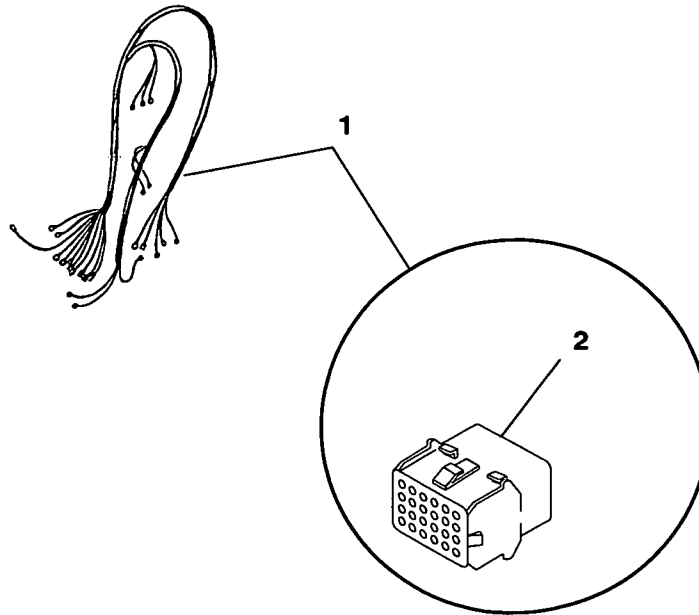
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
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This diagram illustrates the exploded view of a cable assembly, showing 21 numbered components. The components are distributed around a central circular area, with lines indicating their assembly paths. The components include:

- 1:** A bundle of wires with a braided shield and a braid braid.
- 2:** A small rectangular connector or plug.
- 3:** A small rectangular connector or plug.
- 4:** A small rectangular connector or plug.
- 5:** A small rectangular connector or plug.
- 6:** A small rectangular connector or plug.
- 7:** A small rectangular connector or plug.
- 8:** A small rectangular connector or plug.
- 9:** A small rectangular connector or plug.
- 10:** A small rectangular connector or plug.
- 11:** A small rectangular connector or plug.
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- 13:** A small rectangular connector or plug.
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- 15:** A small rectangular connector or plug.
- 16:** A small rectangular connector or plug.
- 17:** A small rectangular connector or plug.
- 18:** A small rectangular connector or plug.
- 19:** A small rectangular connector or plug.
- 20:** A small rectangular connector or plug.
- 21:** A small rectangular connector or plug.

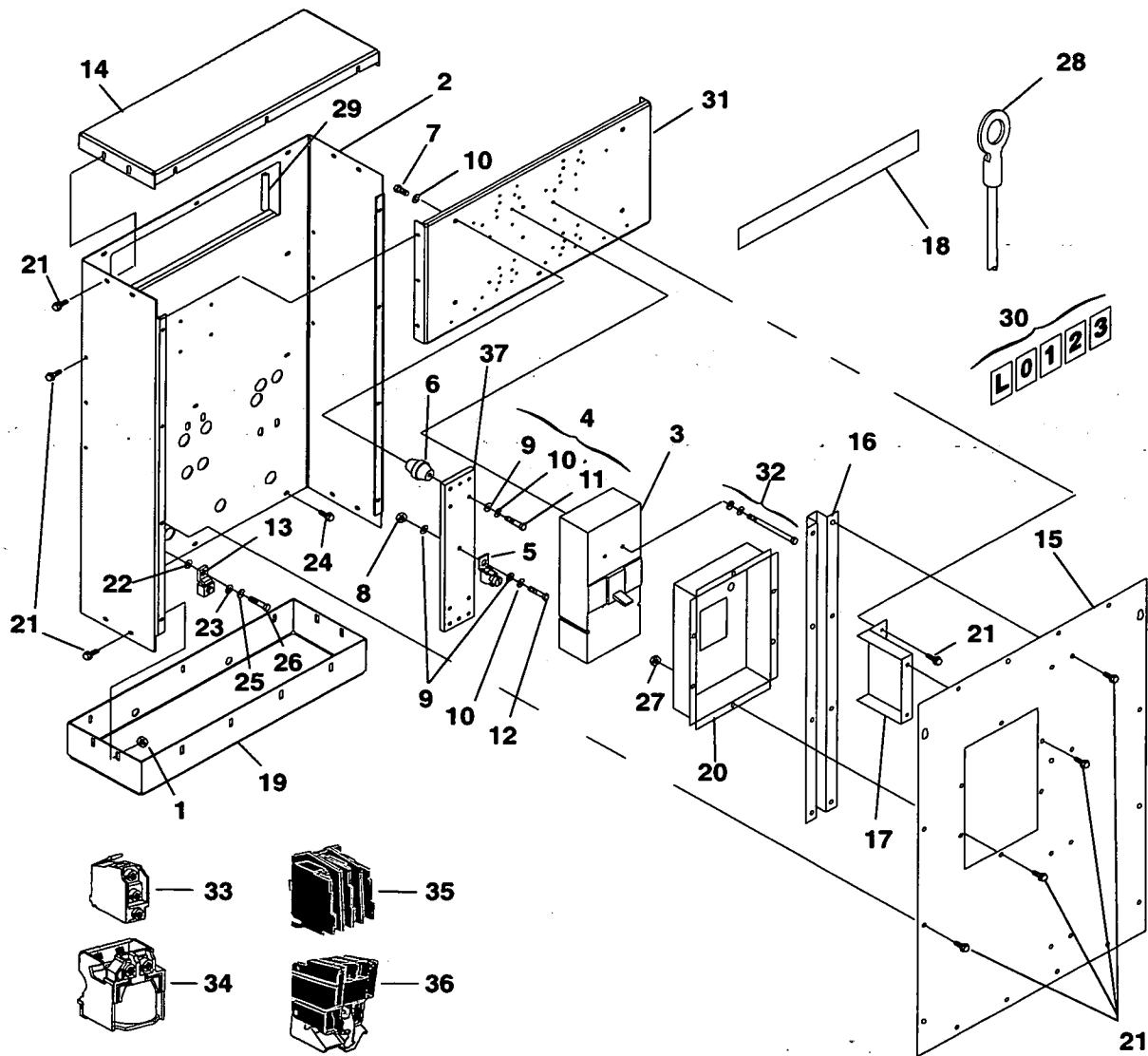
56

AC Wiring Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4186		Harness, Wiring – PMG (Includes Plug)	2	323-1523	1	Plug, Connector (24 Place)

Circuit Breaker and Disconnect Switch **UL Listed, IEC Conformity**



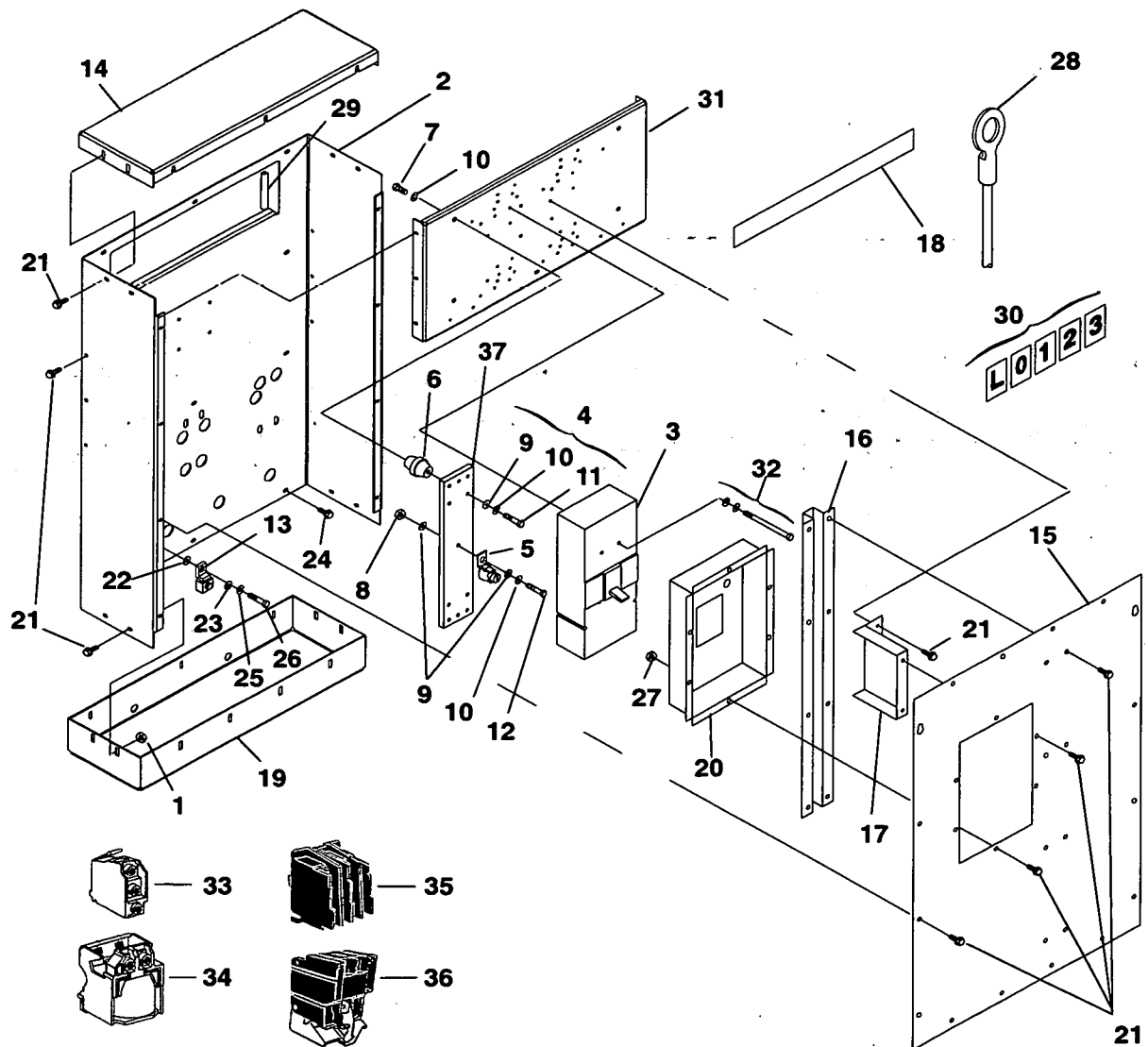
Circuit Breaker and Disconnect Switch UL Listed, IEC Conformity

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0504	16	Nut, Self-Retaining (M6)	15			Cover
2	319-3169	1	Box		319-1917	1	All Except 4 Pole Switches Mounted on the Right Side When Facing Control
3			The following listed Circuit Breakers and Disconnect Switches include lugs and mounting hardware.		319-2463	1	4 Pole Switches Mounted on the Right Side When Facing Control
			Circuit Breakers				
			3 Pole (UL, IEC)	16	319-3284	1	Brace, Cover
	320-1959-06	1	125 Amp	17	319-3333	1	Brace, Cover
	320-1959-05	1	150 Amp	18	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers and disconnect switches) (Quantity Used As Required)
	320-1959-04	1	175 Amp				
	320-1959-03	1	200 Amp	19	319-3183	1	Panel - Bottom
	320-1959-02	1	225 Amp	20			Cup
	320-1959-01	1	250 Amp		319-2431-27	1	1-1/4" x 3" Opening
	320-1960-06	1	300 Amp		319-2431-26	1	2-7/8" x 4" Opening
	320-1960-05	1	350 Amp		319-2431-30	1	3-5/16" x 4-3/8" Opening
	320-1960-04	1	400 Amp		319-2431-31	1	2-1/2" x 4-9/16" Opening
	320-1960-03	1	450 Amp	21	821-6002-03	53	Screw, Self-Locking - Hex Washer Head (M6 x 16mm)
	320-1960-02	1	500 Amp				
	320-1960-01	1	600 Amp	22	856-0010	1	Washer, Lock - EIT (3/8")
	320-1964-05	1	700 Amp	23	526-2120	1	Washer, Flat (M10)
	320-1964-04	1	800 Amp	24	821-2034	2	Screw, Self-Locking - Hex Washer Head (M6 x 25mm)
	320-1964-03	1	900 Amp				
	320-1964-02	1	1000 Amp	25	850-2010	1	Washer, Lock - Spring (M10)
	320-1964-01	1	1200 Amp	26	800-2088	1	Screw, Cap - Hex Head (M10 x 25mm)
			4 Pole (IEC)	27	870-2054	4	Nut, Hex - Flange (M6)
	320-1960-10	1	320 Amp	28			Lead (Quantity Used As Required) 39" (Without Markings) (#1/0 Wire)
	320-1960-09	1	400 Amp		226-4406-03	1	1/2" Ring Terminal End to 1" Stripped End
	320-1960-08	1	500 Amp		226-4406-04	1	1/2" Ring Terminal End to 1/2" Ring Terminal End
	320-1960-07	1	630 Amp	29	508-1092	-	Edging - Bulk (Order By The Foot - 3 Feet Required)
	320-1964-08	1	800 Amp	30			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
	320-1964-07	1	1000 Amp		098-5854-06	1	Marked "L"
	320-1964-06	1	1250 Amp		098-5854-07	1	Marked "1"
			Disconnect Switches		098-5854-08	1	Marked "2"
			3 Pole (UL, IEC)		098-5854-09	1	Marked "3"
	320-1990-02	1	400 Amp		098-5854-10	1	Marked "0"
	320-1990-01	1	600 Amp	31	319-3329	1	Bracket, Mounting
	320-1992-02	1	800 Amp				
4	300-3515-01	1	Bar Assembly, Neutral - Used on 3 Pole Circuit Breakers and Disconnect Switches (Includes Parts Marked *)				
5	332-3788	3	*Lug, Solderless				
6	332-2744-07	2	*Standoff, Insulator				
7	800-0048	2	*Screw, Cap - Hex Head (3/8-16 x 3/4")				
8	862-0003	6	*Nut, Hex (3/8")				
9	526-0399-20	8	*Washer, Flat				
10	850-0050	10	*Washer, Lock - Spring (3/8")				
11	800-0051	2	*Screw, Cap - Hex Head (3/8-16 x 1-1/4")				
12	800-0053	6	*Screw, Cap - Hex Head (3/8-16 x .75)				
13	332-2001	1	Lug, Solderless				
14	319-1915	1	Panel - Top				

* - Parts Included In 300-3515-01 Neutral Bar Assembly

Continued...

Circuit Breaker and Disconnect Switch **UL Listed, IEC Conformity**

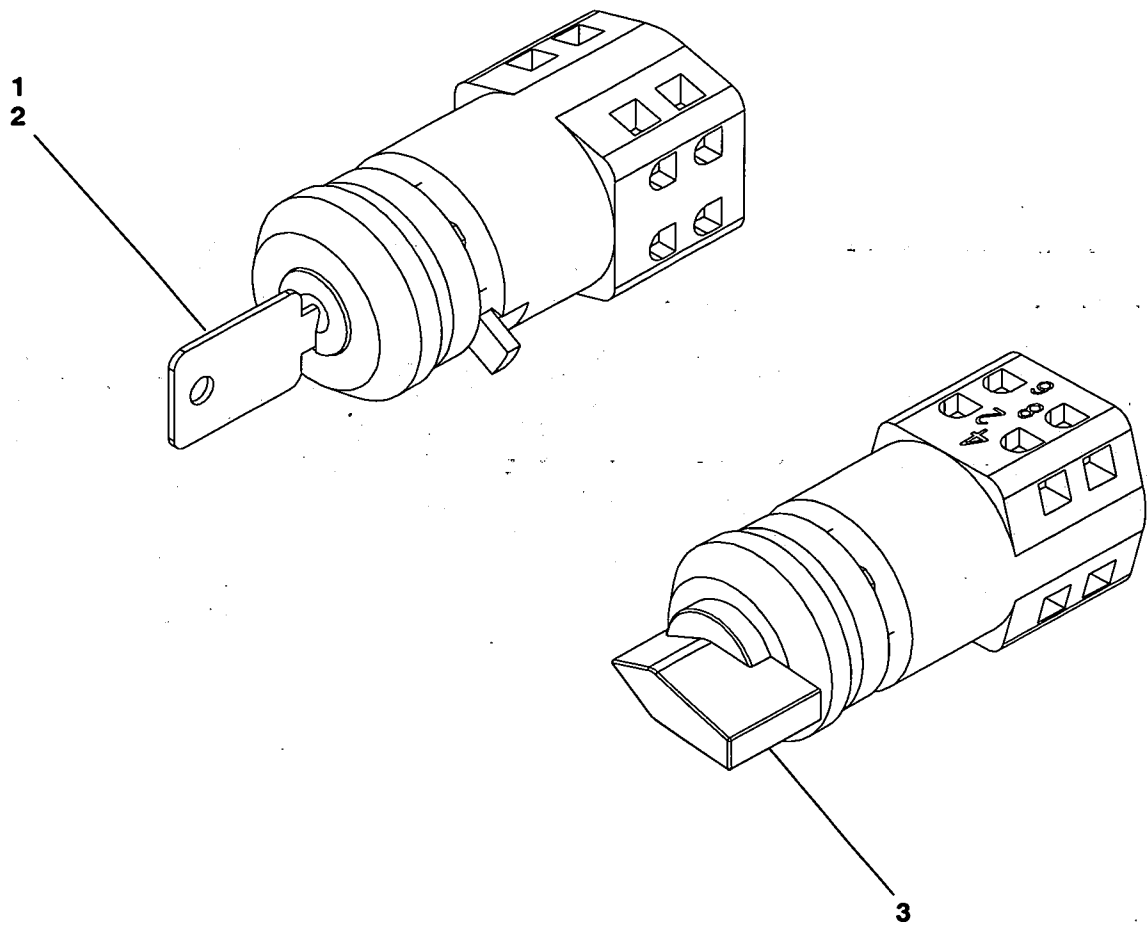


Circuit Breaker and Disconnect Switch **UL Listed, IEC Conformity**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
32			Package, Hardware – Mounting (Includes Screws, Nuts and Lock Washers – 1 Package Required Per Switch)	33	320-1981-01	1	Accessories, Circuit Breaker: The following are used on 320-1960-XX Circuit Breakers Switch – Used as a Trip Alarm or Auxiliary Contact 24 Volt Shunt Trip
	320-1986-07	1	Used With 320-1960-XX Circuit Breakers	34	320-1981-03	1	
	320-1986-01	1	Used With 320-1964-XX Circuit Breakers and 320-1992-02 Disconnect Switch	35	320-1977-01	1	Accessories, Circuit Breaker: The following are used on 320-1964-XX Circuit Breakers Switches – Includes 1 Trip Alarm and 1 Auxiliary Contact 24 Volt Shunt Trip *Bar, Bus – Neutral
				36	320-1977-03	1	
				37	337-3514	2	

* – Parts Included In 300-3515-01 Neutral Bar Assembly

Operator Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	308-1045	1	Switch, Key Operator
2	308-1046	2	Key - Spare

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	308-1085	1	Switch, Selector

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