



Parts Catalog

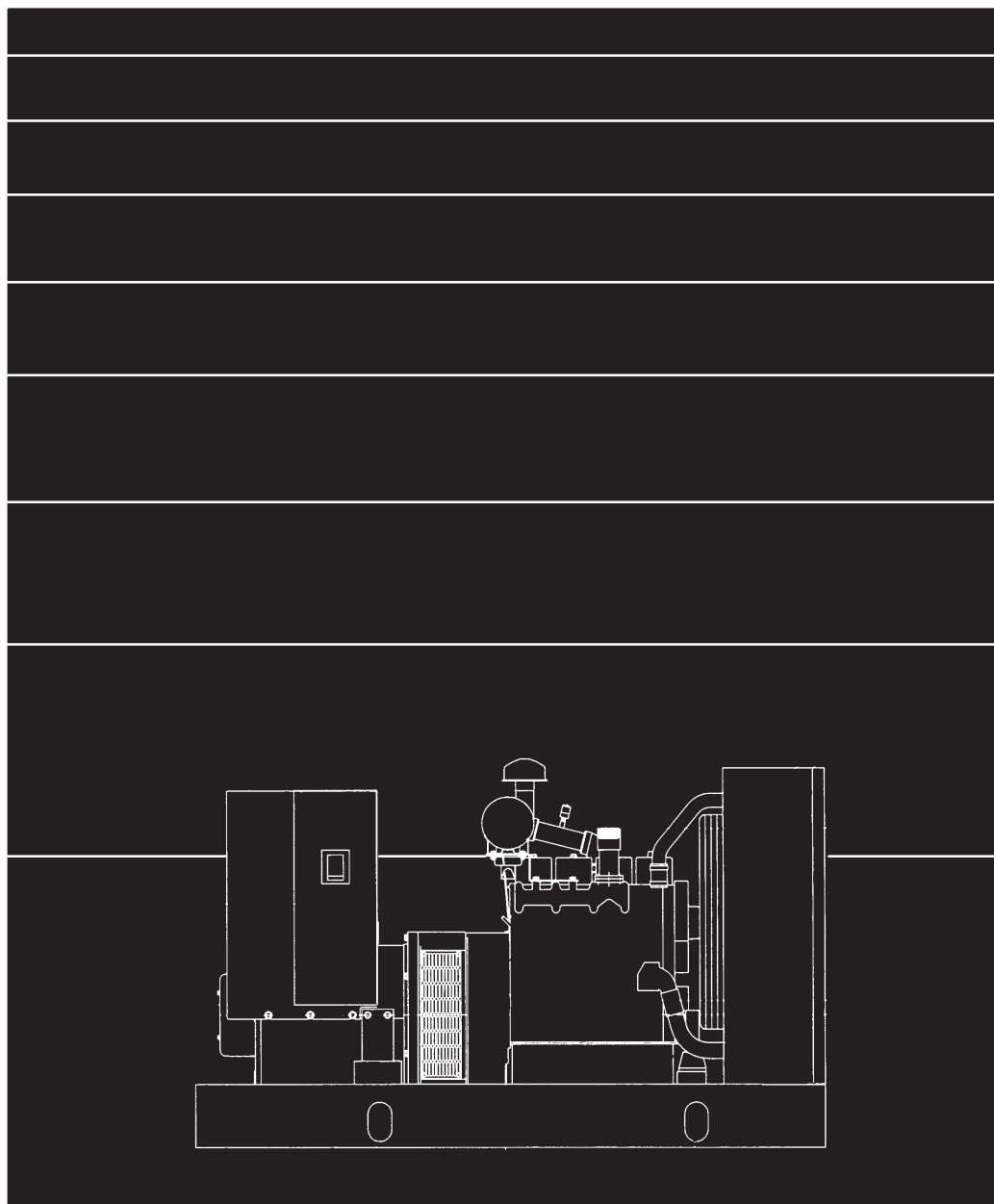
DGBB

DGBC

DGCA

DGCB

Generator Set



Printed in U.S.A.

960-0207 DGBB (Spec C) 7-96
DGBC (Spec B)
DGCA, DGCB (Spec K)

Introduction

This catalog applies to the standard generator models DGBB, DGBC, DGCA and DGCB 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.

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

Replacement Engine

Onan/Cummins Generator Model	Cummins Engine Model
DGBB DGBC DGCA DGCB	4B3.9-G Spec No. SES1691 4B3.9-G Spec No. SES1691 4BT3.9-G2 Spec No. SES1693 4BT3.9-G2 Spec No. SES1693

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

Generator Set Data Table

Model Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
28DGBB *	28,000	#	50	4,6,12	1 or 3	24 VDC
35DGBB *	35,000	#	60	4,6,12	1 or 3	24 VDC
32DGBC *	32,000	#	50	4,6,12	1 or 3	24 VDC
40DGBC *	40,000	#	60	4,6,12	1 or 3	24 VDC
40DGCA *	40,000	#	50	4,6,12	1 or 3	24 VDC
50DGCA *	50,000	#	60	4,6,12	1 or 3	24 VDC
50DGCA*	50,000	#	50	4,6,12	1 or 3	24 VDC
60DGCB*	60,000	#	60	4,6,12	1 or 3	24 VDC

* – The specification number denotes customer requested options or deviations from the standard model. The specification letter advances (B to C, C to D, etc.) with major manufacturing changes.

– Broad range reconnectible

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Abbreviations

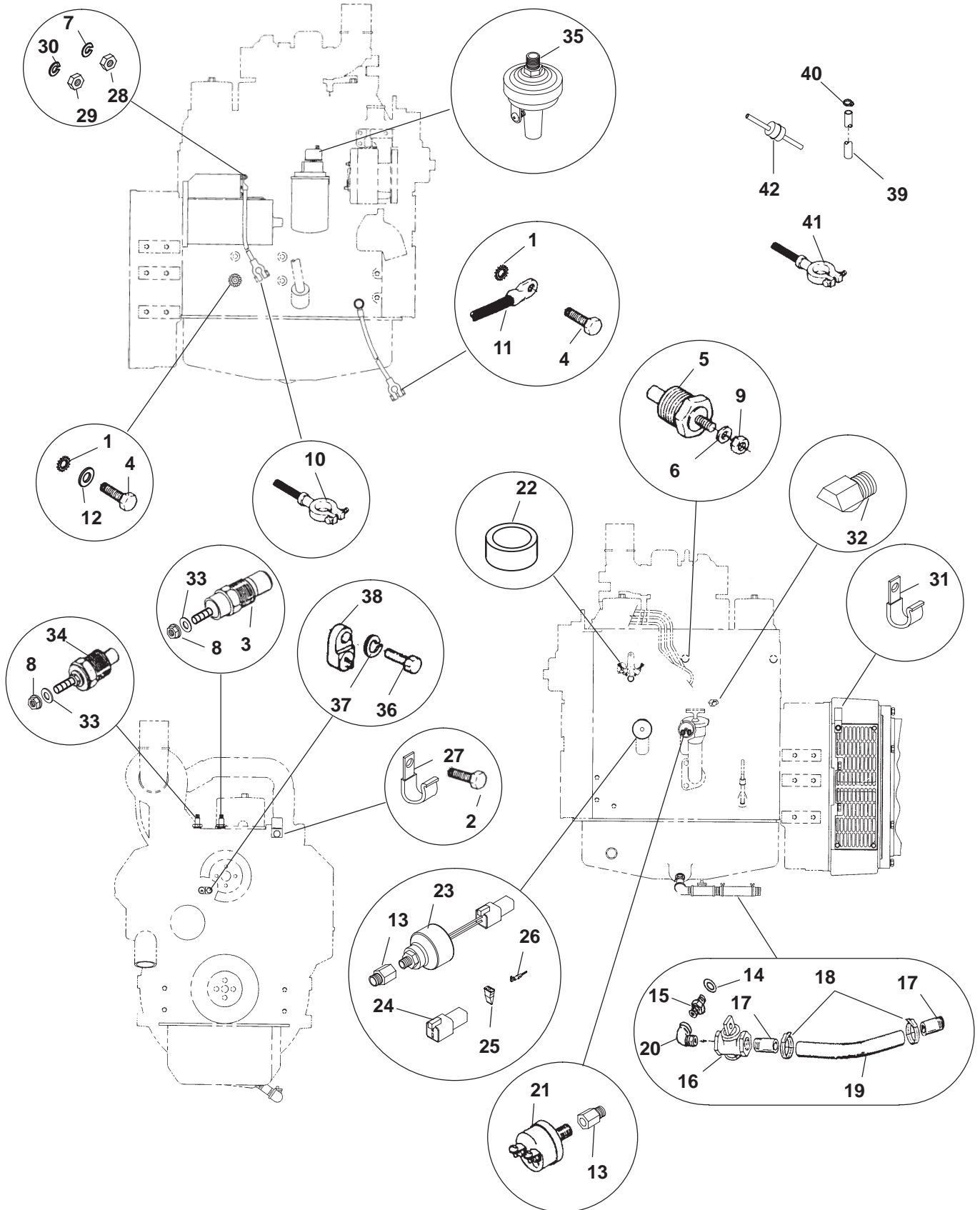
Some of the following abbreviations may be used throughout this Parts Catalog;

Alternating Current	AC	Not For Sale	NFS
Ampere	Amp	Nominal Pipe Thread	NPT
As Required	A/R	Outside Diameter	OD
Automatic Voltage Regulator	AVR	Ounce	oz.
American Wire Gauge	AWG	Permanent Magnet Exciter	PMG
Degree	Deg	Phase	Ph
Direct Current	DC	Printed Circuit	PC
External Tooth	ET	Radio Frequency Interference	RFI
External/Internal Tooth	EIT	Right	RT
Ground Fault Interrupter	GFI	Specification	Spec
Inside Diameter	ID	Thick	Thk
Internal Tooth	IT	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
Millimeter	mm	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	—	13 oz. Pressurized Spray Can		525-0551-02	—	13 oz. Pressurized Spray Can
	525-0306	—	Quart Can		525-0551-03	—	Quart Can
	525-0304	—	Gallon Can		525-0551-04	—	Gallon Can
					518-0601	—	Sealant, Thread (6 ml Tube)

External Engine Parts



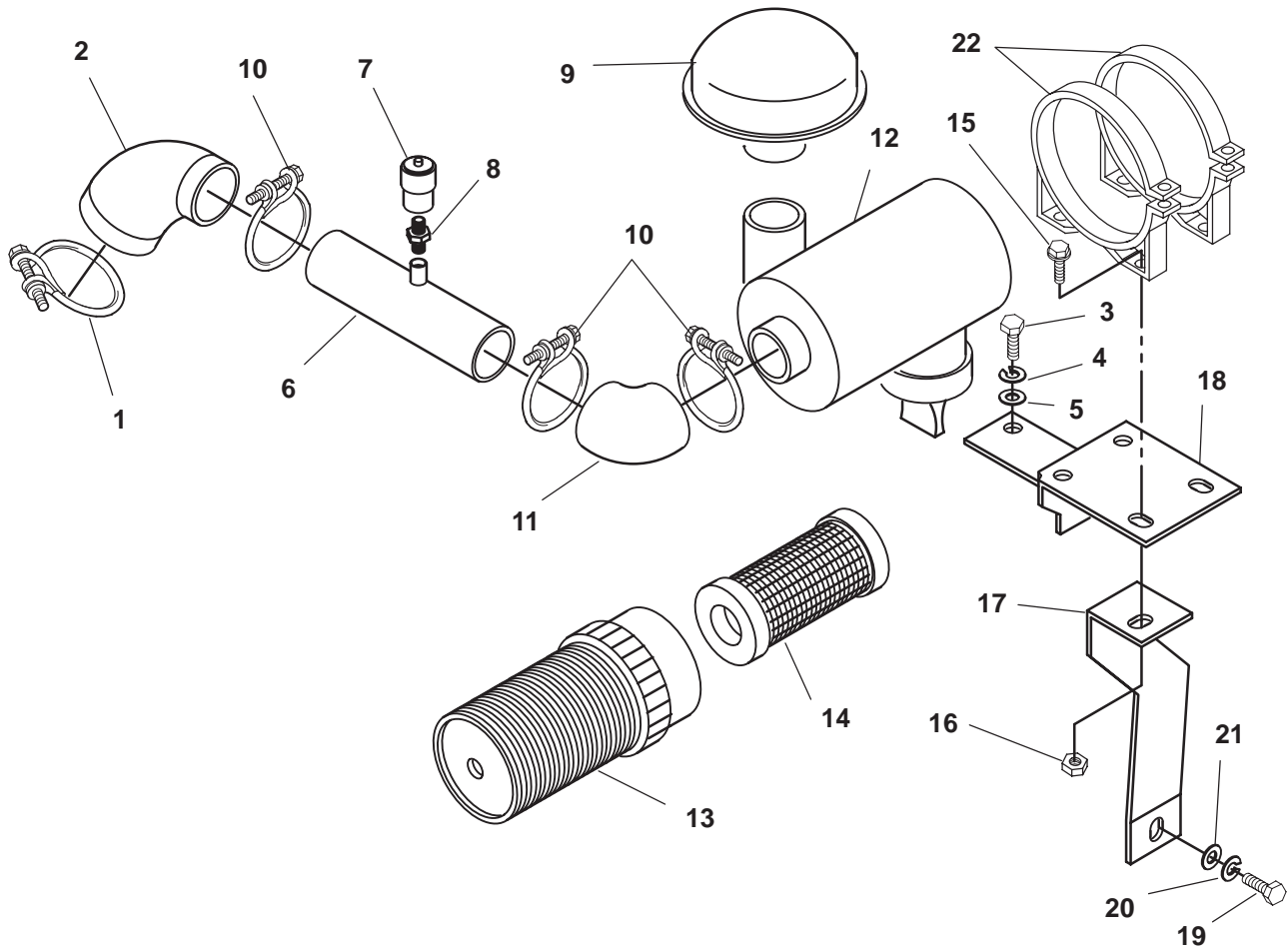
100-2703

External Engine Parts

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	856-0013	2	Washer, Lock – W/EIT (1/2")	25	323-1548	1	*Wedge, Receptacle
2	800-2085	1	Screw, Cap – Hex Head (M10 x 25mm)	26	323-1492	1	*Socket, Contact
3	309-0554	1	Switch, Temperature – High Engine Coolant (Opens at 205 Deg F, Closes at 230 Deg F) (S2)	27	332-2921	1	Clamp, "J"
4	800-2111	2	Screw, Cap – Hex Head (M12 x 25mm)	28	860-2009	1	Nut, Hex (M10)
5	193-0375	1	Sender, Water Temperature (E2)	29	860-2006	1	Nut, Hex (M5)
6	526-0008	1	Washer, Flat (#10)	30	850-2010	1	Washer, Lock – Spring (M10)
7	850-0030	1	Washer, Lock – Spring (#10)	31	332-3196	1	Clamp, "J"
8	870-0221	2	Nut, Hex – W/ET (#8-32)	32	502-0199	1	Elbow, Male – Inverted – 45 Deg
9	870-0131	1	Nut, Hex – W/ET (#10-32)	33	526-0003	2	Washer, Flat (#8)
10	416-0921-01	1	Cable, Battery (24")	34	309-0553	1	Switch, Temperature – High Engine Coolant (Opens at 195 Deg F, Closes at 220 Deg F) (S6 – Pre-Alarm)
11	416-0893	1	Cable, Battery (10")	35	309-0641-07	1	Switch, Oil Pressure – 20 PSI (S5 – Pre-Alarm)
12	526-2140	1	Washer, Flat (M12)	36	800-2058	1	Screw, Cap – Hex Head (M8 x 25mm)
13	505-1503	2	Adapter, Pipe (1/8")	37	850-2008	1	Washer, Lock – Spring (M8)
14	102-1147	1	Gasket, Oil Drain	38	309-0269	1	Switch, Temperature – Low Engine Coolant (S4)
15	102-1237	1	Adapter, Oil Drain	39	501-0502	1	Line, Fuel – Flexible (60") (Fuel Out) (Sets Without Subbase Fuel Tank)
16	504-0011	1	Valve, Shutoff (1/2")	40	503-0685	1	Clamp, Hose
17	505-0185	2	Nipple, Pipe – Half (1/2" x 1-1/2")	41	416-0446	1	Cable, Battery (12-1/2")
18	503-0197	2	Clamp, Hose	42	501-0627-03	1	Line, Fuel – Flexible (40") (Fuel In) (Sets Without Subbase Fuel Tank)
19	503-1195	1	Hose, Oil Drain				
20	505-0050	1	Elbow, Street – 90 Deg (1/2")				
21	309-0641-03	1	Switch, Oil Pressure – 14 PSI (S1)				
22	147-0779	1	Sleeve, Fuel Pump				
23	193-0448	1	Sender, Oil Pressure (Includes Parts Marked *) (E1)				
24	323-1549	1	*Connector, Receptacle – 4 Place				

* – Parts Included in 193-0448 Oil Pressure Sender

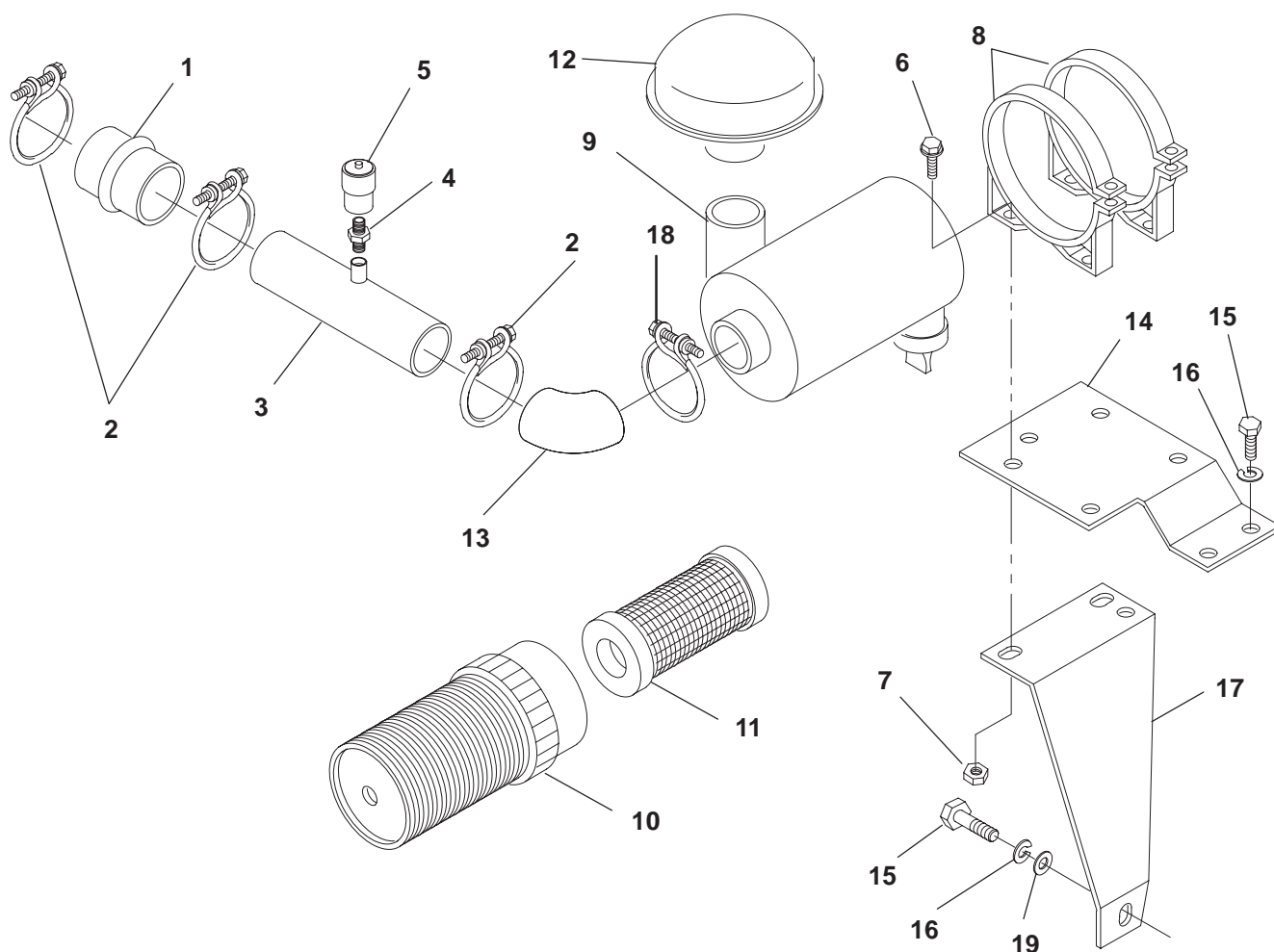
Air Cleaner DGBB, DGBC



140-2681

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-1870-05	1	Clamp, Hose	13			Element – Outer
2	140-2683	1	Elbow	140-2697	1		Standard (Air Cleaners With One Element)
3	800-2085	2	Screw, Cap – Hex Head (M10 x 20mm)	140-2159	1		Heavy Duty (Air Cleaners With Two Elements)
4	850-2010	2	Washer, Lock – Spring (M10)	14	140-2762	1	Element – Inner – Heavy Duty (Air Cleaners With Two Elements)
5	526-2120	2	Washer, Flat (M10)	15	821-0016	4	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
6	140-2177	1	Tube, Air Inlet	16	870-0257	4	Nut, Hex – Locking (5/16-18)
7	140-2008	1	Indicator, Service	17	140-2684	1	Bracket, Mounting – Lower
8	140-1260	1	Adapter, Indicator	18	140-2682	1	Bracket, Mounting – Upper
9	140-2157	1	Cap, Air Cleaner (Unhoused Sets)	19	800-2110	1	Screw, Cap – Hex Head (M12 x 20mm)
10	503-1870-04	3	Clamp, Hose	20	850-2012	1	Washer, Lock – Spring (M12)
11	140-1864	1	Elbow	21	526-2140	1	Washer, Flat (M12)
12			Cleaner, Air (Includes Element(s))	22	140-2227	2	Band, Mounting
	140-2693	1	Standard (Air Cleaners With One Element)				
	140-2763	1	Heavy Duty (Air Cleaners With Two Elements)				

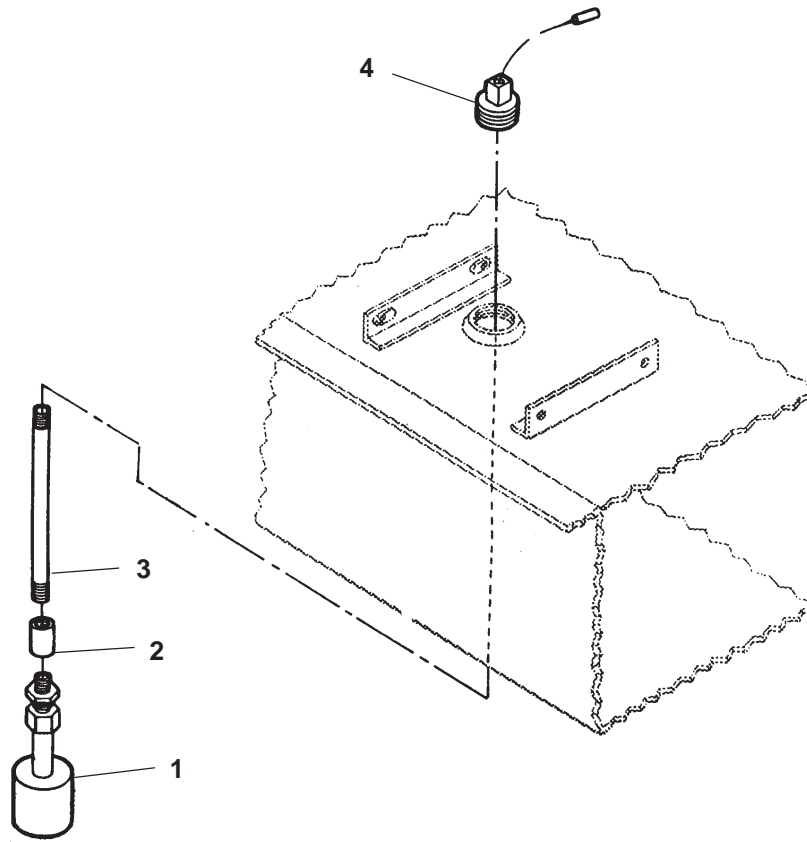
Air Cleaner DGCA, DGCB



140-2169

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-1543	1	Hose, Reducer	10	140-2159	1	Element - Outer
2	503-1870-05	3	Clamp, Hose	11	140-2762	1	Element - Inner - Heavy Duty Air Cleaners
3	140-2166	1	Tube, Air Inlet	12	140-2157	1	Cap, Air Cleaner (Unhoused Sets)
4	140-1260	1	Adapter, Indicator	13	503-1542	1	Elbow, Reducing
5	140-1548	1	Indicator, Service	14	140-2914	1	Bracket, Mounting - Upper
6	821-0016	5	Screw, Self-Locking - Hex Washer Head (5/16-18 x 3/4")	15	800-2110	3	Screw, Cap - Hex Head (M12 x 20mm)
7	870-0257	5	Nut, Hex - Locking (5/16-18)	16	850-2012	3	Washer, Lock - Spring (M12)
8	140-2227	2	Band, Mounting	17	140-2163	1	Bracket, Mounting - Lower
9			Cleaner, Air (Includes Element(s))	18	503-1870-04	1	Clamp, Hose
	140-2158	1	Standard (Air Cleaners With One Element)	19	526-2140	1	Washer, Flat (M12)
	140-2763	1	Heavy Duty (Air Cleaners With Two Elements)				

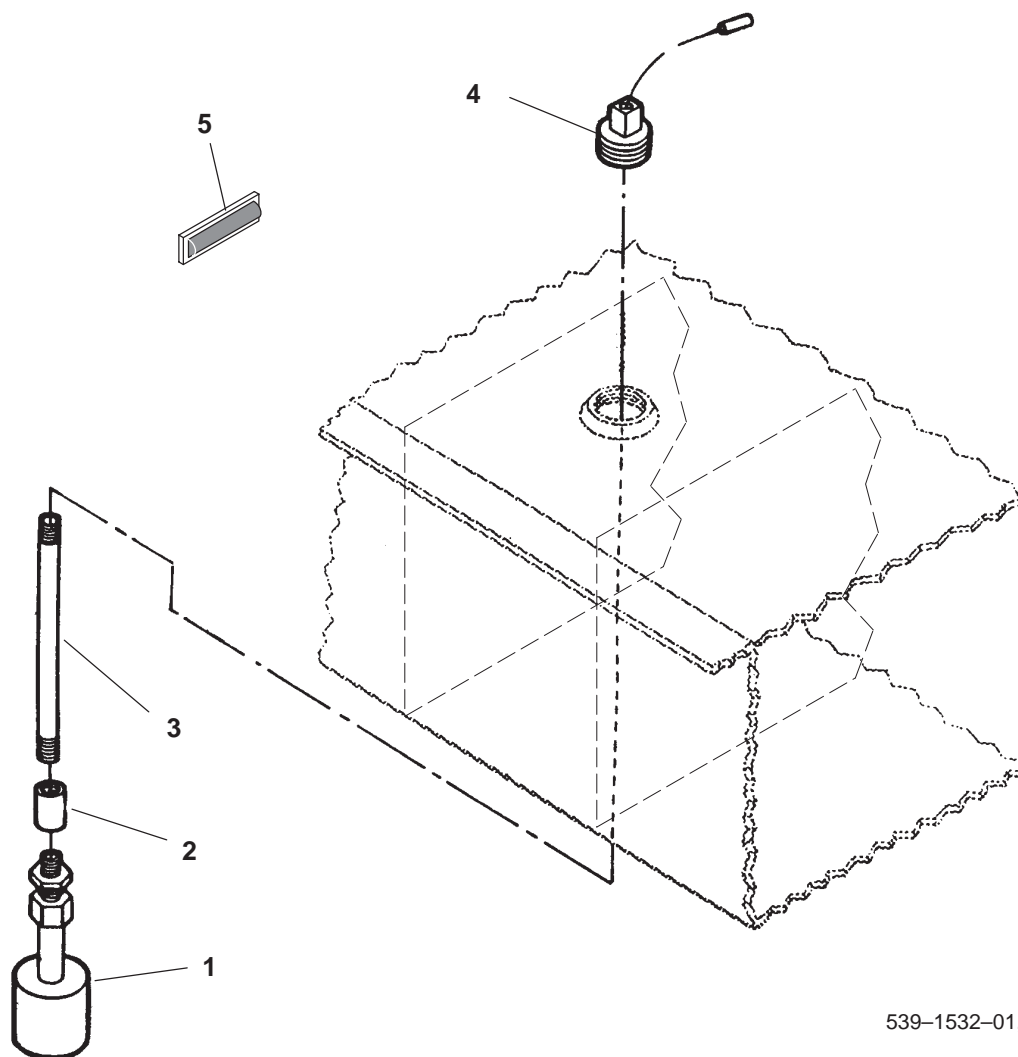
Low Fuel Alarm



539-1287-01,09,10

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	308-0963-01	1	Switch, Basin	4	505-1050	1	Plug, Pipe – Square Head (1-1/4")
2	505-0026	1	Coupling, Pipe (1/8")				
3	505-1458-01	1	Nipple, Pipe (1/8")				
	505-1458-01	1	9-7/8" – 24 Hour Single Wall Subbase Fuel Tank				
	505-0768	1	4-1/2" – 12 Hour Dual Wall Subbase Fuel Tank				
	505-0890	1	11-1/2" – 24 Hour Dual Wall Subbase Fuel Tank				

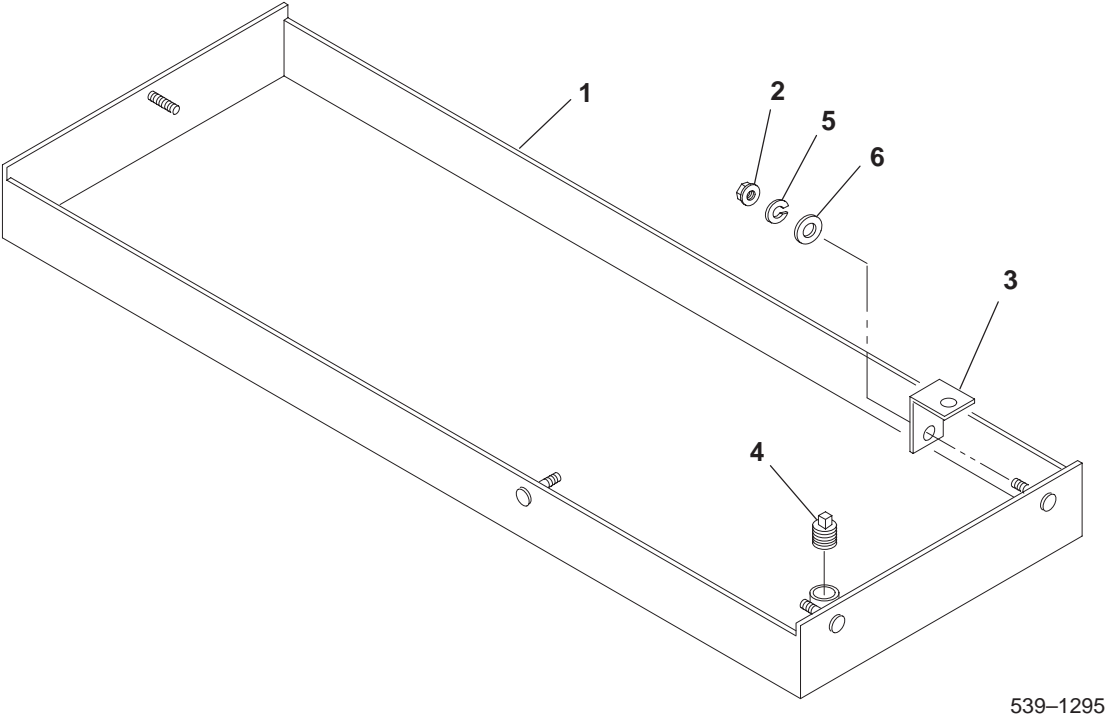
Basin Alarm Switch **12 Hour and 24 Hour Dual Wall Subbase Fuel Tanks**



539-1532-01,02

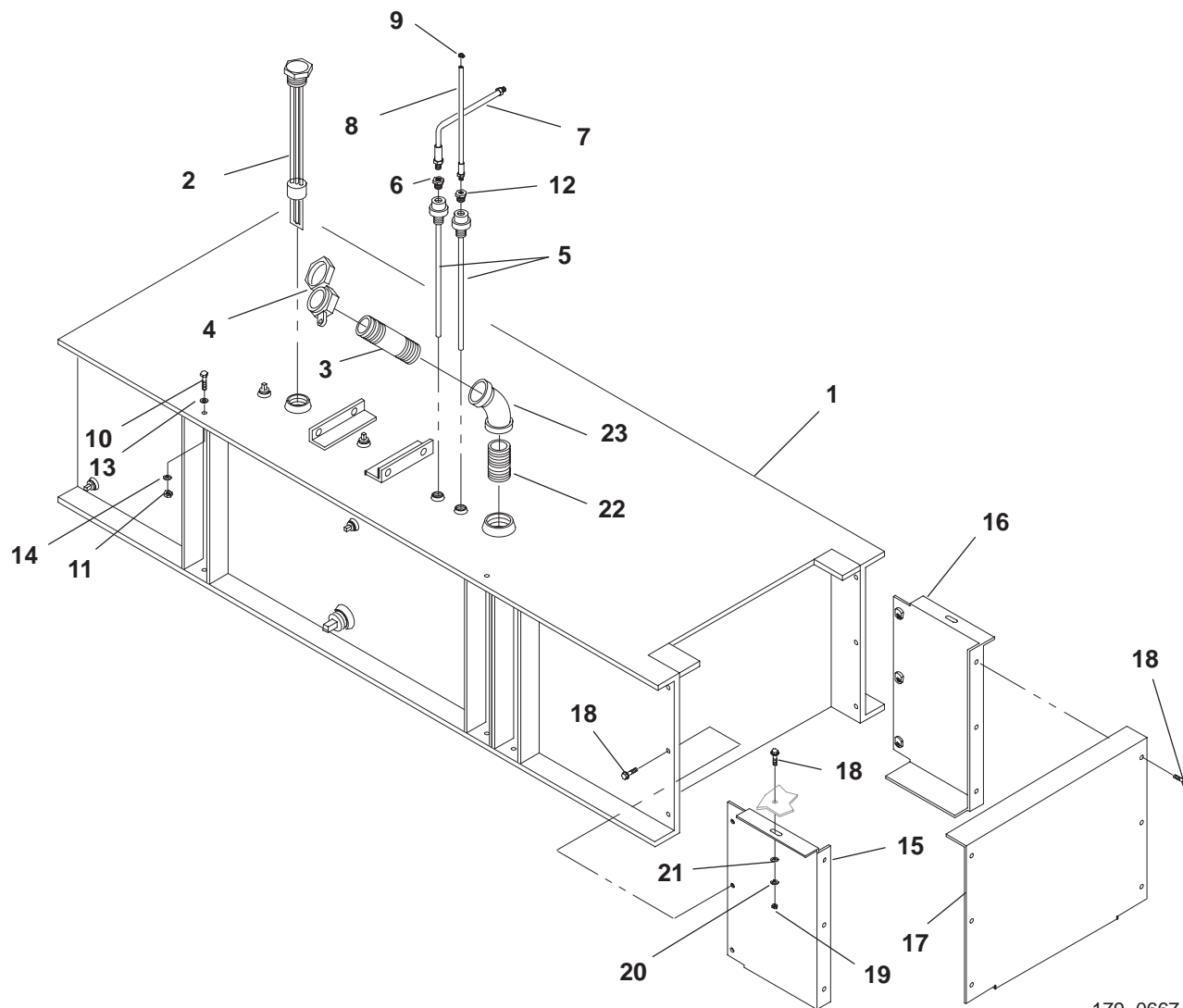
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	308-0916-01	1	Switch, Basin Alarm	4	505-1050	1	Plug, Pipe – Square Head (1-1/4")
2	505-0026	1	Coupling, Pipe (1/8")	5	322-0463-06	1	Lens, Indicator Light – Marked "Basin"
3	505-1458-04	1	Nipple, Pipe (1/8")				
	505-1458-03	1	5-11/16" – 12 Hour Dual Wall Subbase Fuel Tank				
			14-7/16" – 24 Hour Dual Wall Subbase Fuel Tank				

Rupture Basin



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	159-1288	1	Basin, Rupture	4	505-0055	1	Plug, Pipe – Square Head (1/4")
2	870-0550-07	3	Nut, Hex – Self-Locking (5/16-18)	5	850-0114-06	3	Washer, Lock – Spring (5/16")
3	159-1268	3	Hanger, Rupture Basin	6	526-0399-16	3	Washer, Flat (5/16")

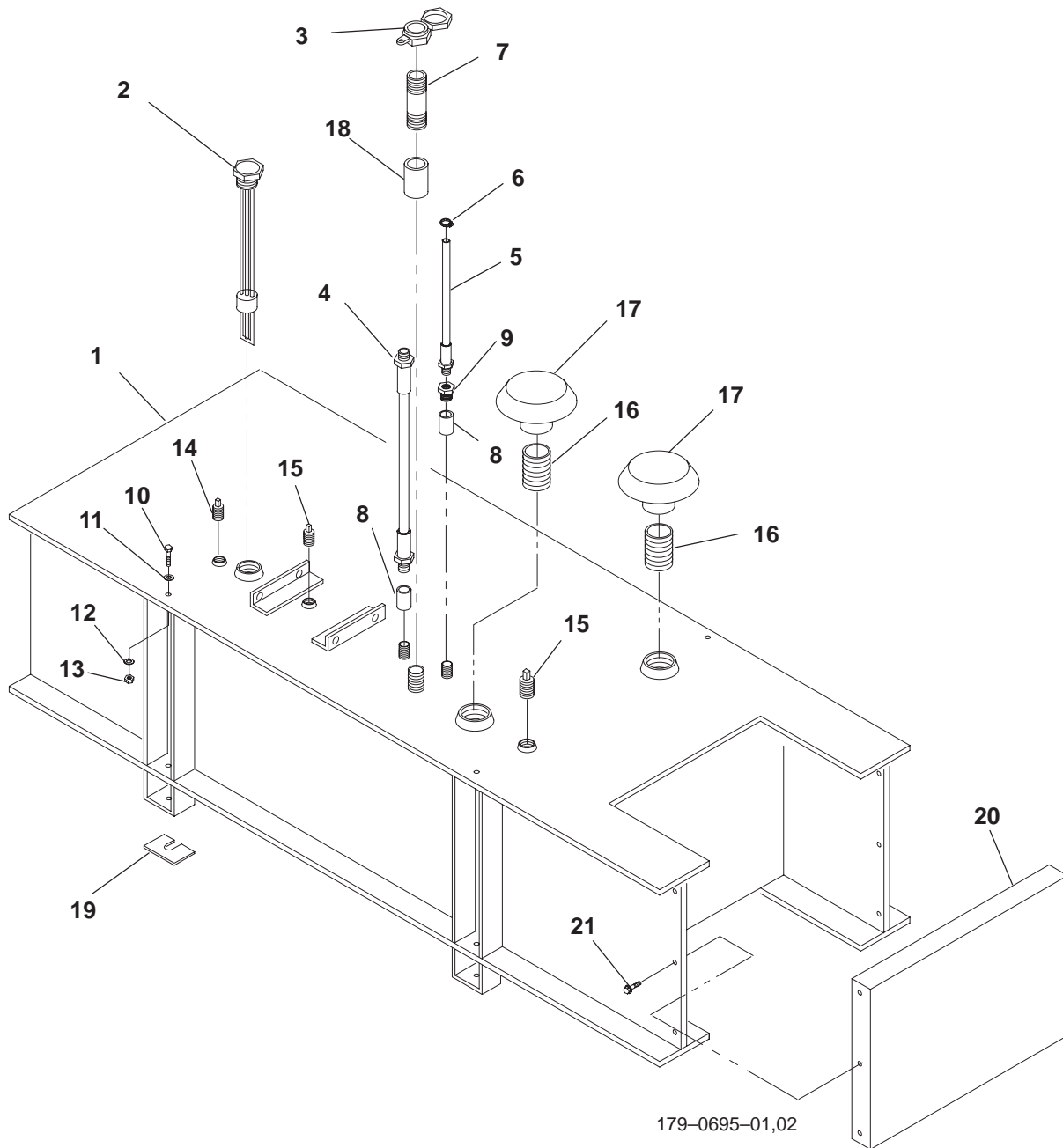
Subbase Fuel Tank Single Wall 24 Hour



179-0667-01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	159-1180	1	Tank, Fuel – Single Wall (100 Gallon)	12	505-0151	1	Bushing, Reducer (1/2" to 1/8")
2	415-0565-01	1	Gauge, Liquid Level	13	526-0399-32	4	Washer, Flat (3/4")
3	505-0748	1	Nipple, Pipe (2" x 9")	14	850-0114-11	4	Washer, Lock – Spring (3/4")
4	159-1208-01	1	Cap, Fuel	15	159-1307-01	1	Wrapper, Fuel Tank (Right Side)
5	415-0566-01	2	Pipe, Fuel	16	159-1307-02	1	Wrapper, Fuel Tank (Left Side)
6	505-0018	1	Bushing, Reducer (1/2" to 1/4")	17	159-1308	1	Cap, End – Fuel Tank
7	501-0441	1	Line, Fuel – Flexible (40")	18	821-5003-01	14	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")
8	501-0502	1	Line, Fuel – Flexible (60")	19	870-0550-07	2	Nut, Hex – Flange (5/16-18)
9	503-0685	1	Clamp, Hose	20	850-0114-06	2	Washer, Lock – Spring (5/16")
10	800-0156	4	Screw, Cap – Hex Head (3/4-10 x 2-1/4")	21	526-0399-16	2	Washer, Flat (5/16")
11	862-0026-11	4	Nut, Hex (3/4-10)	22	505-0172	1	Nipple, Pipe – Close (2")
				23	505-0872	1	Elbow, Pipe – 45 Deg (2")

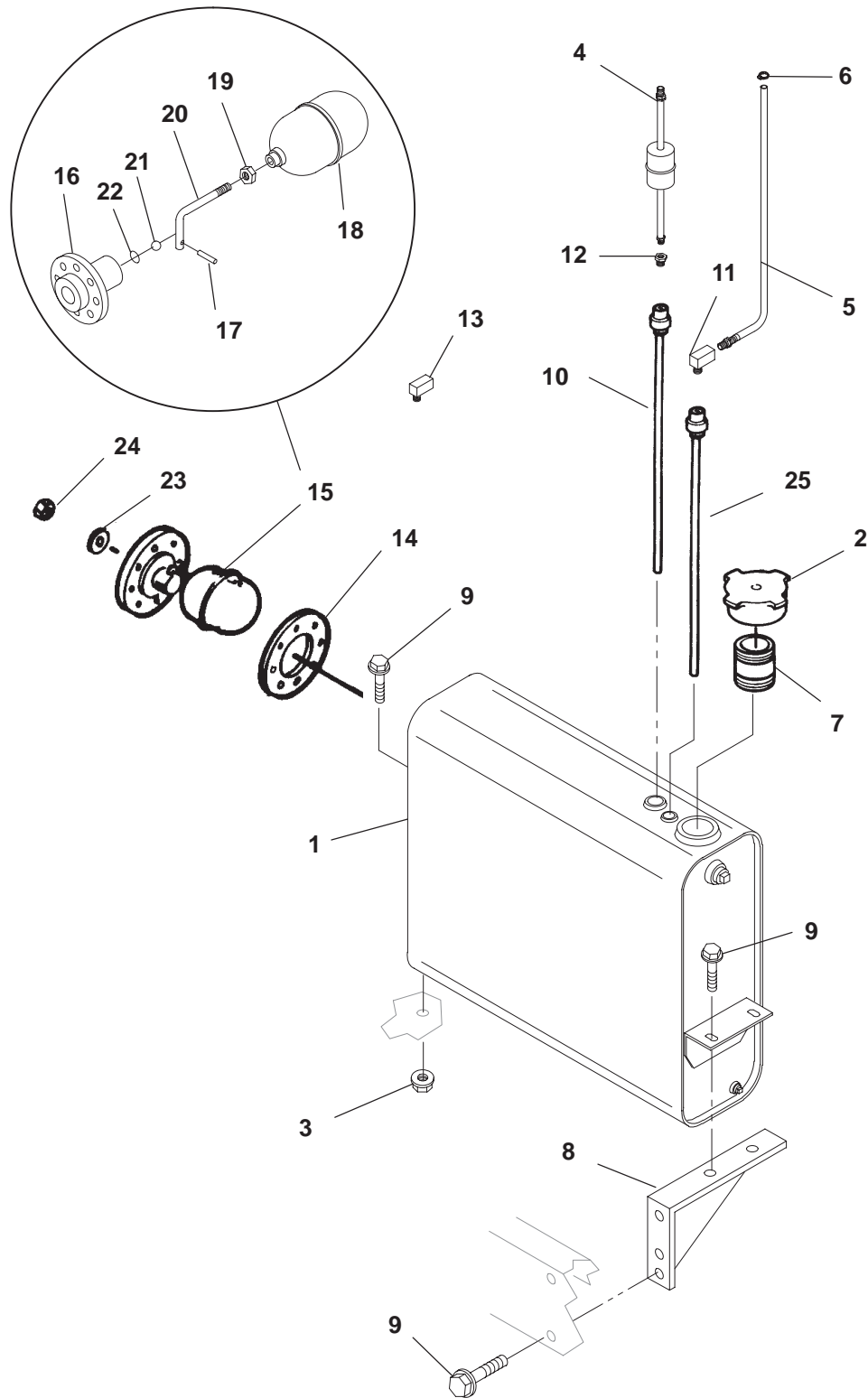
**Subbase Fuel Tank
Dual Wall
12 or 24 Hour**



**Subbase Fuel Tank
Dual Wall
12 or 24 Hour**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Tank, Fuel – Dual Wall (Includes End Cap and Mounting Screws)	11	526-0399-32	4	Washer, Flat (3/4")
	159-1359	1	60 Gallon (10-3/4" High)	12	850-0114-11	4	Washer, Lock – Spring (3/4")
	159-1360	1	125 Gallon (19-3/4" High)	13	862-0026-11	4	Nut, Hex (3/4-10)
2			Gauge, Liquid Level	14	505-0110	1	Plug, Pipe (3/8")
	415-0565-11	1	60 Gallon Tank	15	505-0359	2	Plug, Pipe (1-1/4")
	415-0565-02	1	125 Gallon Tank	16	505-0172	2	Nipple, Pipe – Close (2") 60 Gallon Tank
3	415-0043	1	Cap, Fuel	17			Cap, Vent
4	501-0441	1	Line, Fuel – Flexible (Fuel In) (40")		159-1371-03	2	60 Gallon Tank
5	501-0502	1	Line, Fuel – Flexible (Fuel Out) (60")		159-1371-05	2	125 Gallon Tank
6	503-0685	1	Clamp, Hose	18	505-0203	1	Coupling, Pipe (2" ID)
7	505-0401	1	Nipple, Pipe (2" ID x 6")	19	159-1378	8	Shim, Fuel Tank
8	505-0027	2	Coupling, Pipe (1/4")	20			Cap, End – Fuel Tank
9	505-0007	1	Bushing, Reducer (1/4" to 1/8")		159-1365	1	60 Gallon Tank
10	800-0156	4	Screw, Cap – Hex Head (3/4-10 x 2-1/4")		159-1366	1	125 Gallon Tank
				21	821-0014	6	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")

Day Tank **Without Fuel Tank Pump or Control**



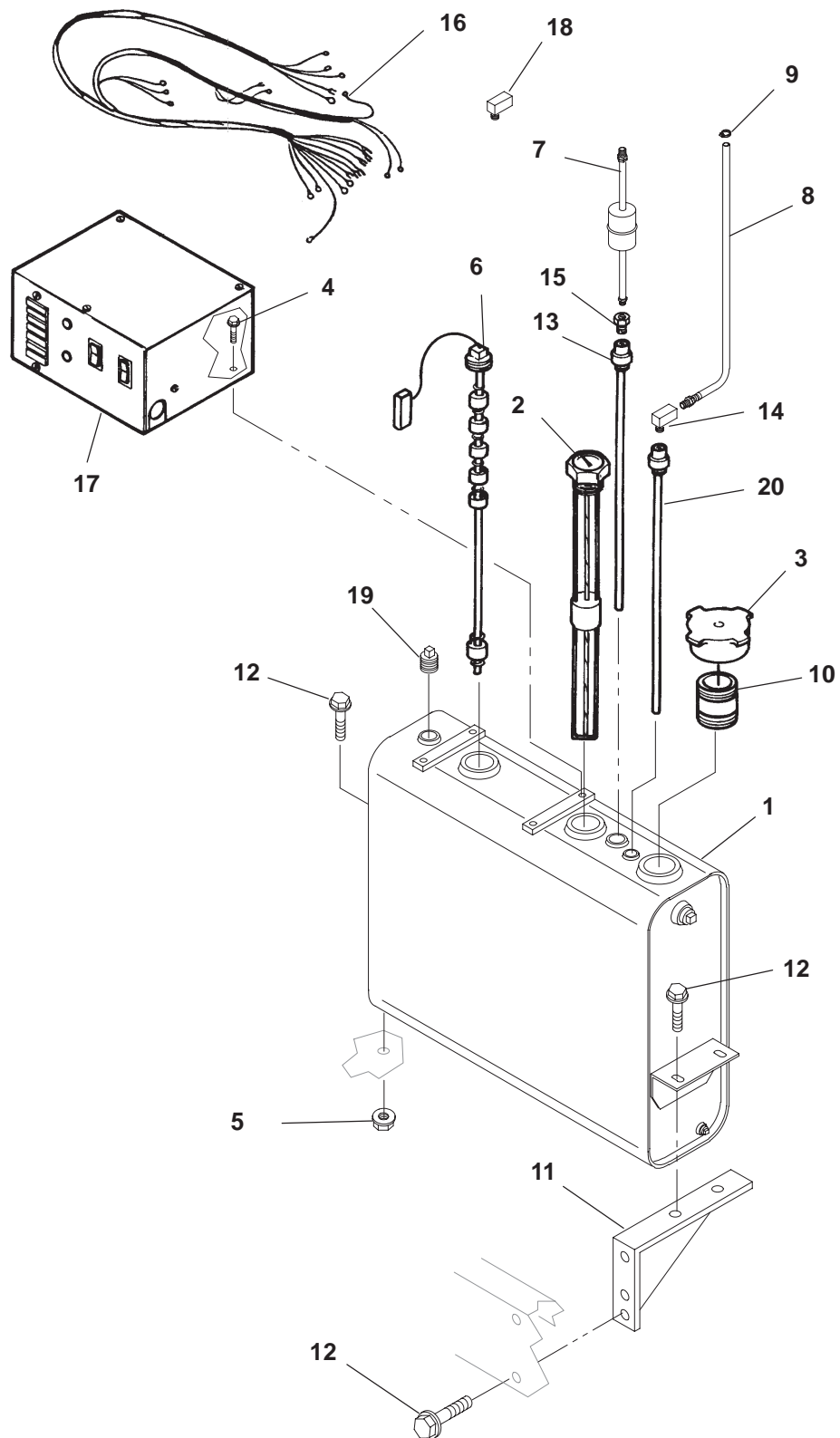
539-1169-01

Day Tank **Without Fuel Tank Pump or Control**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	415-0647	1	Tank, Day (8 Gallons)	14	415-0660	1	Gasket
2	159-1208-01	1	Cap, Fuel	15	415-0657	1	Valve Assembly, Float (Includes Parts Marked *)
3	870-0550-05	2	Nut, Locking – Flange Head (1/4-20)	16	415-0650-01	1	*Body
4	501-0627-04	1	Line, Fuel – Flexible – Tank to Engine (With Filter) (18-3/4")	17	415-0651-19	1	*Pin, Roll
5	501-0502-01	1	Line, Fuel – Flexible – Engine to Tank (10")	18	415-0652	1	*Ball, Float
6	503-0685	1	Clamp, Hose	19	864-0011	1	*Nut, Jam (1/4-20)
7	505-0172	1	Nipple, Pipe – Close (2")	20	415-0654	1	*Arm
8	159-1206	1	Bracket, Mounting – Fuel Tank	21	415-0655	1	*Ball, Steel
9	821-0018	6	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")	22	415-0656-21	1	*Seal, Ring
10	415-0566-04	1	Pipe, Fuel (Fuel Supply)	23	526-0008	8	Washer, Flat (#10)
11	505-0049	1	Elbow, Pipe – Street (1/8")	24	870-0131	8	Nut, Hex – Locking – W/ET (#10-32)
12	505-0018	1	Bushing, Reducer (1/2" to 1/4")	25	415-0752-01	1	Pipe, Fuel (Fuel Return)
13	502-0053	1	Elbow, Brass – Street (1/8") Low Oil Pressure Switch				

* – Parts Included In 415-0657 Float Valve Assembly

Day Tank With Control

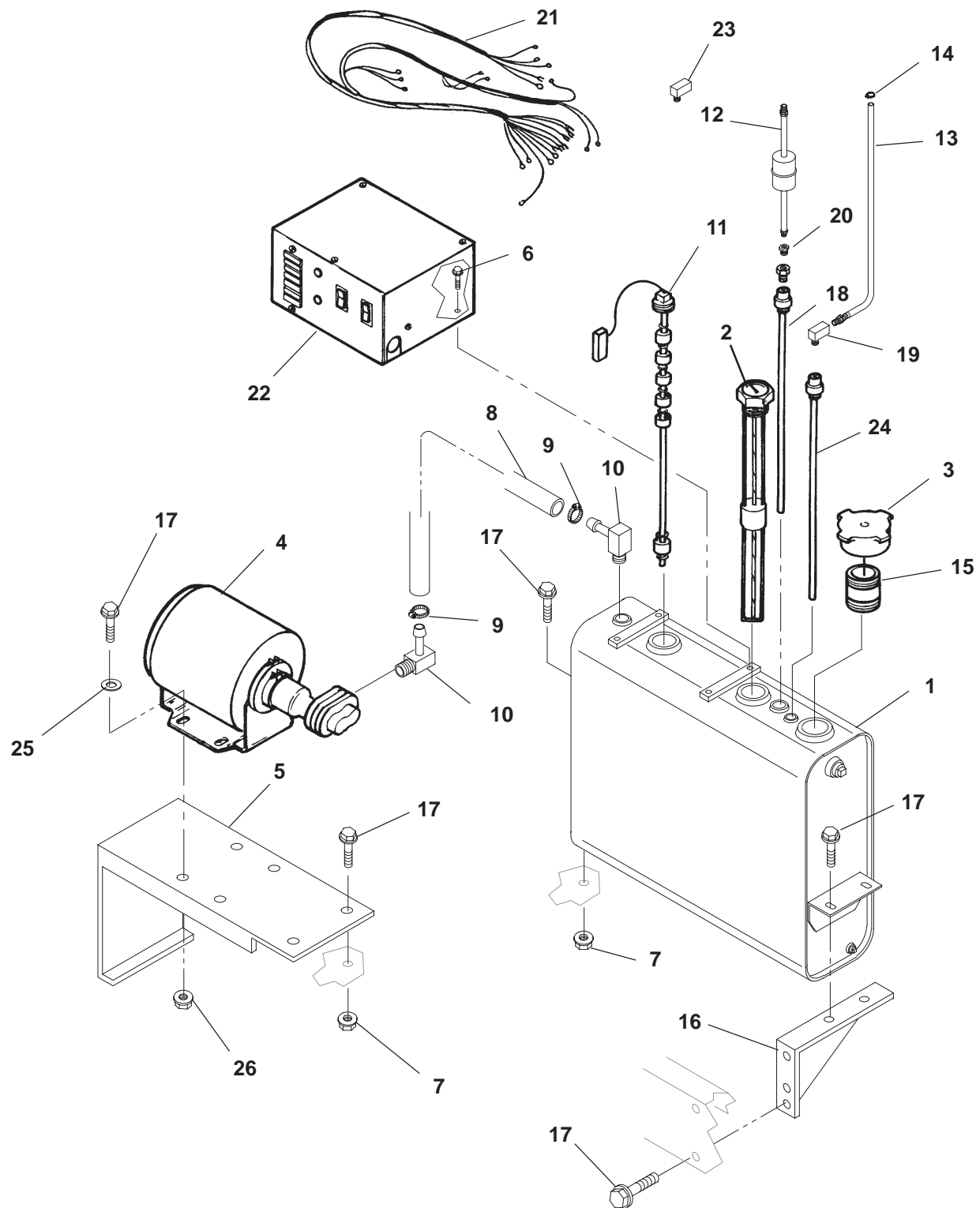


539-1168-01

Day Tank With Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	415-0574	1	Tank, Day (8 Gallons)	13	415-0566-04	1	Pipe, Fuel (Fuel Supply)
2	415-0565-04	1	Gauge, Fuel (Liquid Level)	14	505-0049	1	Elbow, Pipe – Street (1/8")
3	159-1208-01	1	Cap, Fuel	15	505-0018	1	Bushing, Reducer (1/2" to 1/4")
4	821-5002-03	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	16	338-2398	1	Harness, Wiring – Fuel Tank Control Box Printed Circuit Board TB1 to S1+ and Ground (2 Wire) (84")
5	870-0550-05	2	Nut, Locking – Flange Head (1/4-20)	17	625-2141-01	1	Control, Fuel Tank (See Separate Page For Components)
6	308-0913	1	Switch, Fuel – 5 Float	18	502-0053	1	Elbow, Brass – Street – Low Oil Pressure Switch (1/8")
7	501-0627-04	1	Line, Fuel – Flexible – Tank to Engine (With Filter) (18-3/4")	19	505-0266	1	Plug, Pipe – Square – Countersunk (3/8")
8	501-0502-01	1	Line, Fuel – Flexible – Engine to Tank (10")	20	415-0752-01	1	Pipe, Fuel (Fuel Return)
9	503-0685	1	Clamp, Hose				
10	505-0172	1	Nipple, Pipe – Close (2")				
11	159-1206	1	Bracket, Mounting – Fuel Tank				
12	821-0018	6	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")				

Day Tank With Fuel Tank Pump and Control

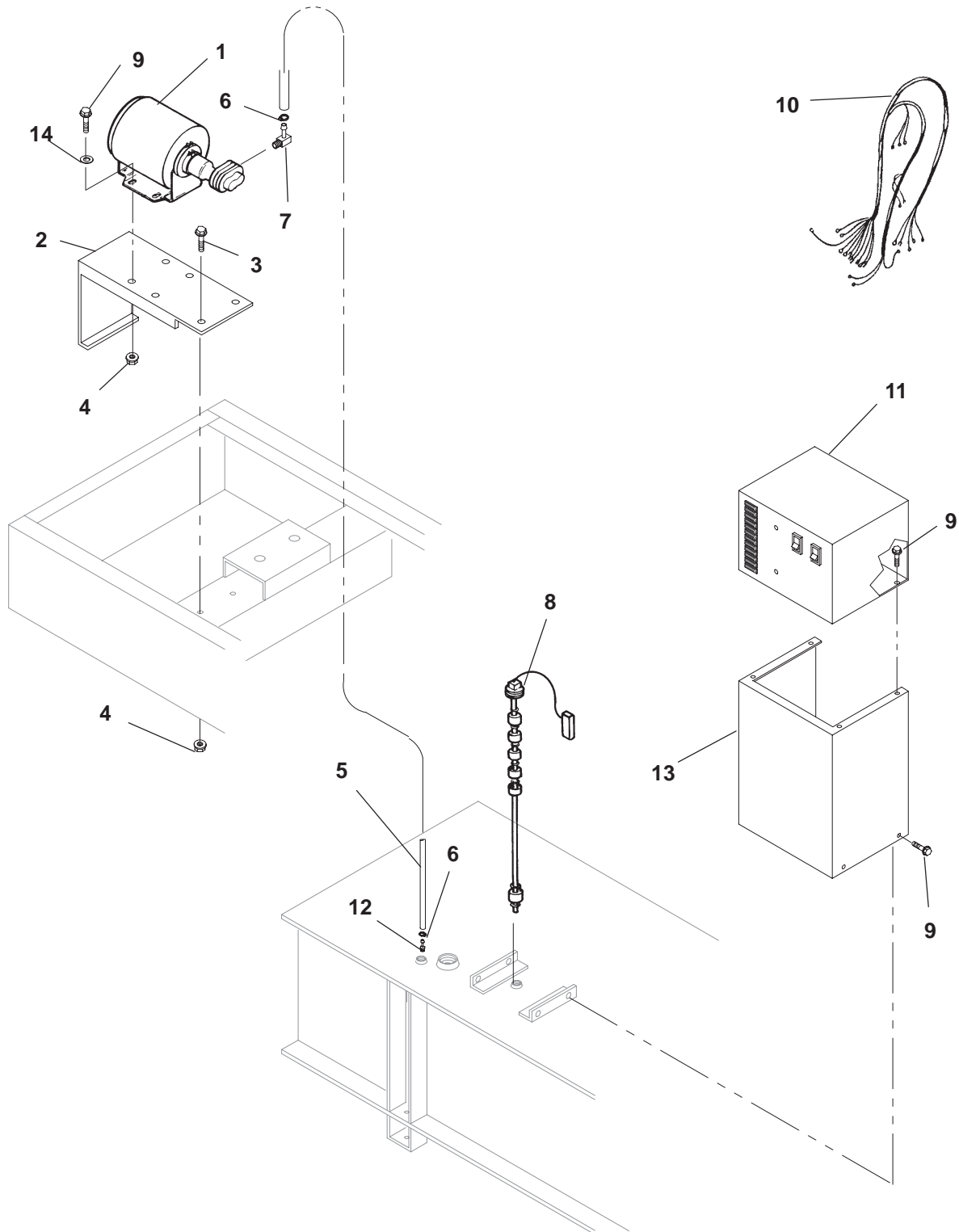


539-1043-01

Day Tank With Fuel Tank Pump and Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	415-0574	1	Tank, Day (8 Gallons)	14	503-0685	1	Clamp, Hose
2	415-0565-04	1	Gauge, Fuel (Liquid Level)	15	505-0172	1	Nipple, Pipe – Close (2")
3	159-1208-01	1	Cap, Fuel	16	159-1206	1	Bracket, Mounting – Fuel Tank
4	399-0117-01	1	Pump, Fuel Tank (P103)	17	821-0018	12	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")
	399-0121	1	Kit, Repair – Fuel Tank Pump (Includes Lip Seal, Bearings, Gasket, Drive Gear, Idle Gear and Coupler) (Not Illustrated)	18	415-0566-04	1	Pipe, Fuel (Fuel Supply)
				19	505-0049	1	Elbow, Pipe – Street (1/8")
				20	505-0018	1	Bushing, Reducer (1/2" to 1/4")
	399-0122	1	Coupler, Pump (Drive Piece Between Motor and Pump) (Not Illustrated)	21			Harness, Wiring
					338-2397	1	Fuel Tank Control Box Printed Circuit Board TB1 to Fuel Tank Pump P103 (5 Wire) (40")
	399-0123	1	Pump (Not Illustrated)				
	399-0124	1	Motor (Not Illustrated)				
5	159-1207	1	Bracket, Mounting – Pump		338-2398	1	Fuel Tank Control Box Printed Circuit Board TB1 to S1+ and Ground (2 Wire) (84")
6	821-5002-03	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")				
7	870-0550-05	4	Nut, Locking – Flange Head (1/4-20)	22	625-2141-01	1	Control, Fuel Tank (See Separate Page For Components)
8	503-1660-01	1	Hose, Fuel – Pump to Tank (12")				
9	503-0183	2	Clamp, Hose	23	502-0053	1	Elbow, Brass – Street – Low Oil Pressure Switch (1/8")
10	502-0942	2	Elbow, Brass – 90 Deg (1/2" Hose to 3/8" Pipe)	24	415-0752-01	1	Pipe, Fuel (Fuel Return)
11	308-0913	1	Switch, Fuel – 5 Float	25	526-0018	4	Washer, Flat (1/4")
12	501-0627-04	1	Line, Fuel – Flexible – Tank to Engine (With Filter) (18-3/4")	26	870-0212	4	Nut, Self-Locking – Hex Flange Head (1/4")
13	501-0502-01	1	Line, Fuel – Flexible – Engine to Tank (10")				

Subbase Fuel Tank Control

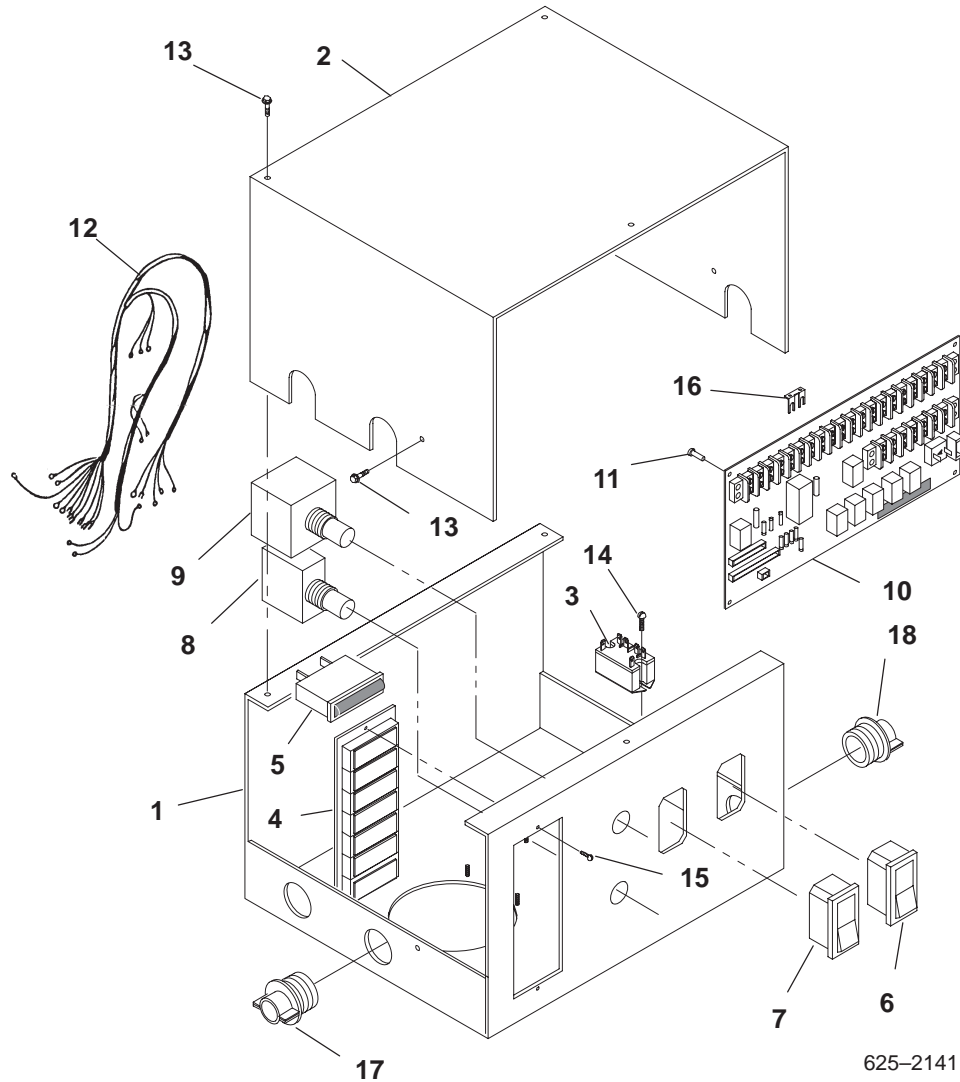


539-1533-01,02

Subbase Fuel Tank Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	399-0117	1	Pump, Fuel Tank (P103)	9	821-0018	12	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")
	399-0121	1	Kit, Repair – Fuel Tank Pump (Includes Lip Seal, Bearings, Gasket, Drive Gear, Idle Gear and Coupler) (Not Illustrated)	10			Harness, Wiring
	399-0122	1	Coupler, Pump (Drive Piece Between Motor and Pump) (Not Illustrated)		338-2397	1	Fuel Tank Control Box Printed Circuit Board TB1 to Fuel Tank Pump P103 (5 Wire) (40")
	399-0123	1	Pump (Not Illustrated)		338-2398	1	Fuel Tank Control Box Printed Circuit Board TB1 to S1+ and Ground (2 Wire) (84")
	399-0124	1	Motor (Not Illustrated)	11	625-2141-01	1	Control, Fuel Tank (See Separate Page for Components)
2	159-1207	1	Bracket, Mounting – Pump	12	502-0943	1	Connector, Hose (3/8" Pipe to 1/2" Hose)
3	821-0010	2	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	13	319-0863-01	1	Stand, Control Box
4	870-0212	6	Nut, Hex – Flange (1/4-20)	14	526-0018	4	Washer, Flat (1/4")
5	503-1660-04	1	Hose, Fuel (18")				
6	503-0183	2	Clamp, Hose				
7	502-0942	1	Elbow, Hose – 90 Deg (3/8" Pipe to 1/2" Hose)				
8			Switch, Fuel – 5 Float				
	308-0913-09	1	12 Hour Subbase Fuel Tank				
	308-0913	1	24 Hour Subbase Fuel Tank				

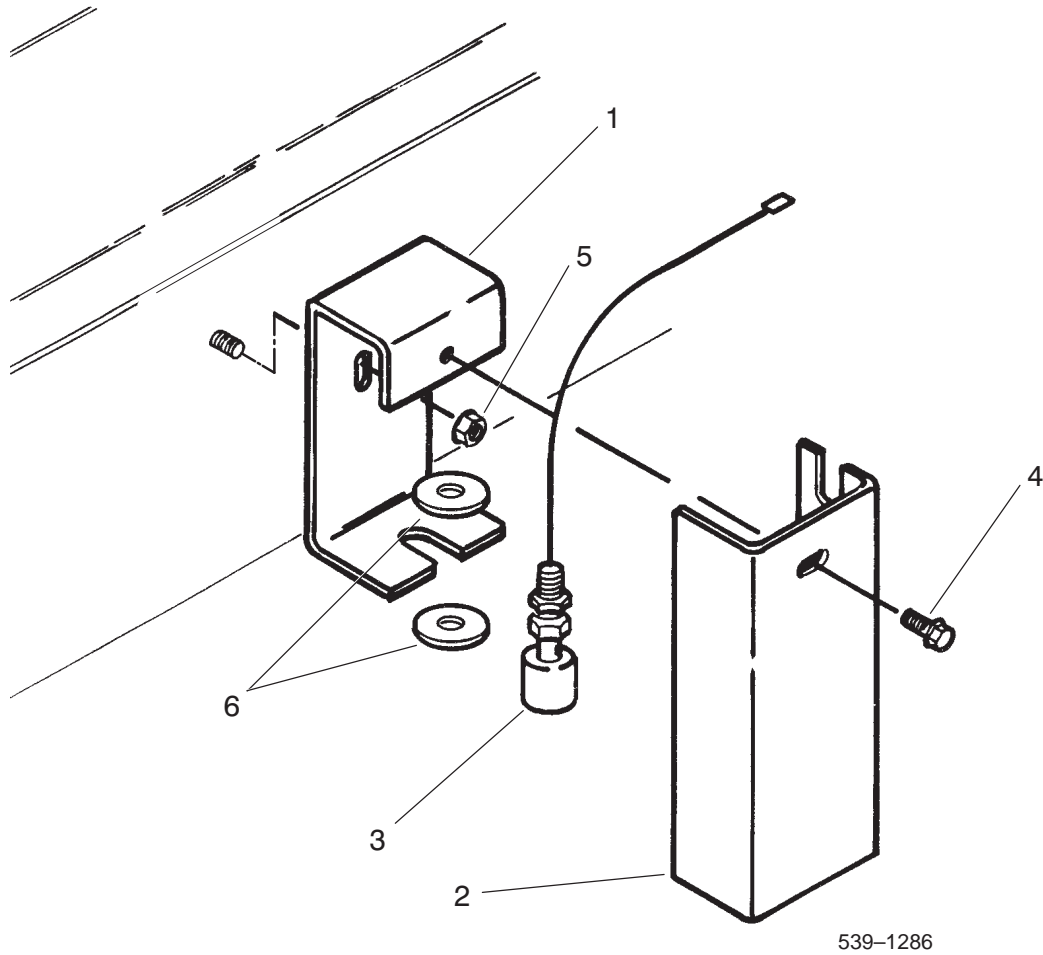
Fuel Tank Control



625-2141

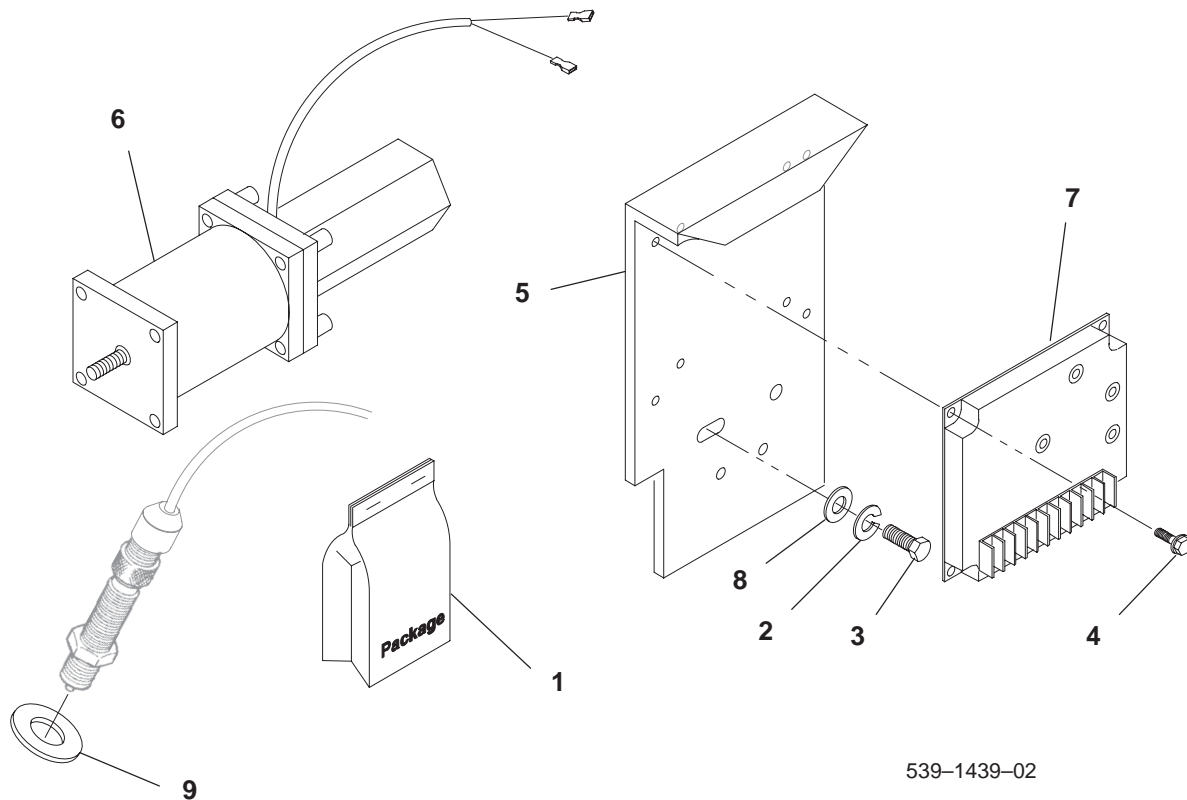
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	625-2141-01	1	Control, Fuel Tank – Complete (Includes Parts Listed Below)	9	320-1654	1	Breaker, Circuit – AC (Double Pole) (CB101)
1	319-0486	1	Box, Control	10	300-3464	1	Board, Printed Circuit
2	319-0485	1	Cover,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

Float Switch



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")				

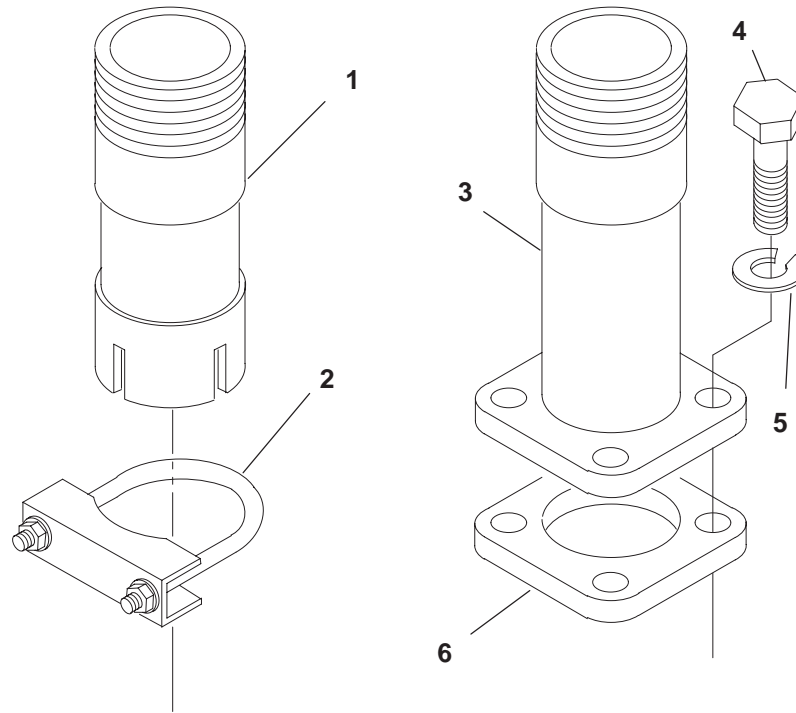
Electronic Governor



539-1439-02

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2578	1	Package, Mounting – Actuator to Injection Pump (Includes Actuator Mounting Bracket, Actuator Shaft Clevis, Clevis Jam Nut, Male and Female Rod End Bearings, Magnetic Pickup, Wire Lugs, Mounting Hardware and Instruction Bulletin)	4	821-0005	4	Screw, Self-Locking – Hex Washer Head (#10-32 x 3/8")
2	850-2012	2	Washer, Lock – Spring (M12)	5	149-2309	1	Bracket, Mounting – Governor Control
3	800-2110	2	Screw, Cap – Hex Head (M12 x 20mm)	6	150-2331-01	1	Actuator, Governor
				7	151-0715-02	1	Control, Governor (A16)
				8	526-2140	2	Washer, Flat (M12)
				9	526-0425	1	Washer, Flat (13/16" ID x 1-1/4" OD x 1/8" Thk)

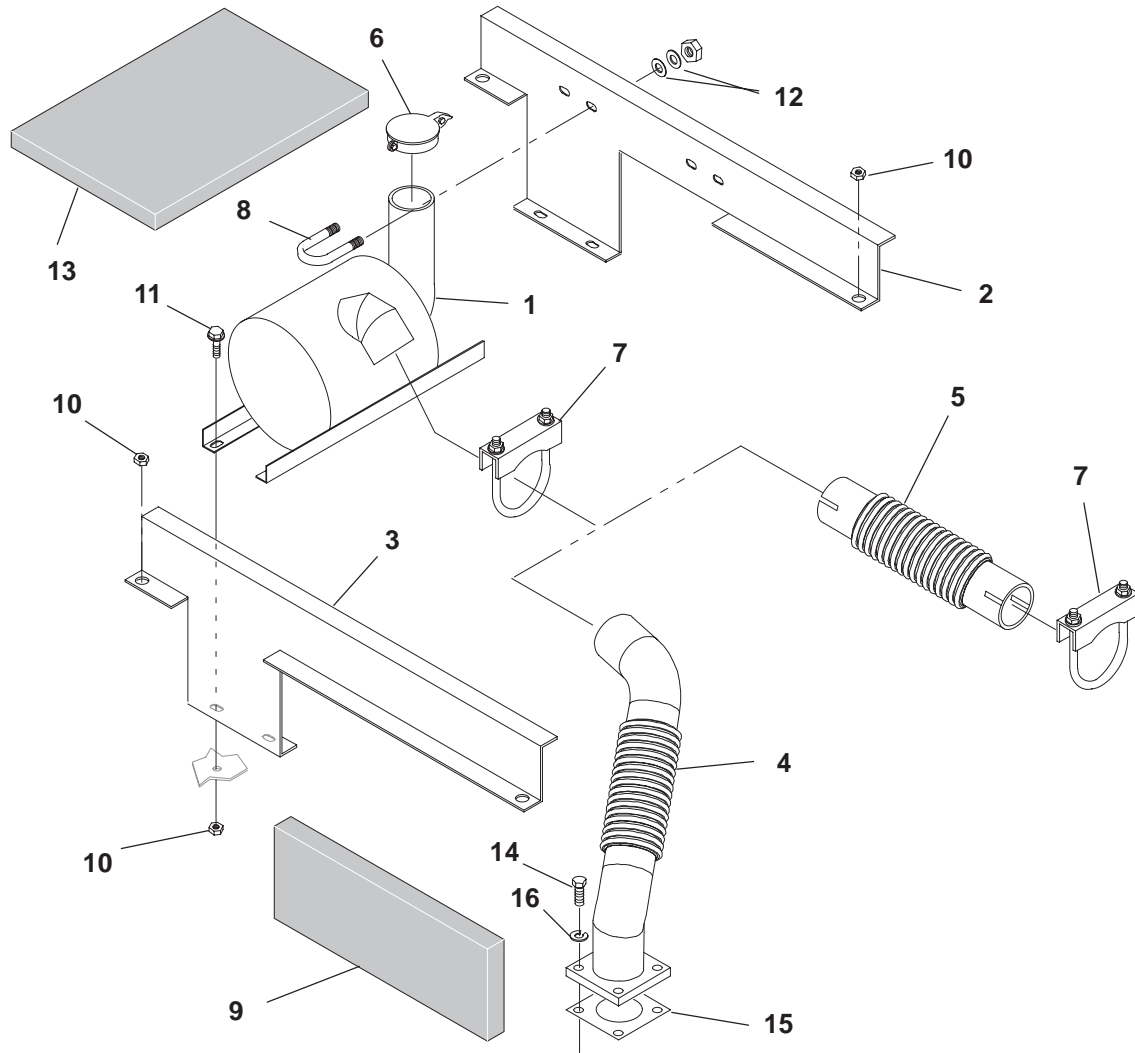
Exhaust Adapter



179-1671,1675

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-2253	1	Adapter, Exhaust – DGCA, DGCB	5	850-2010	4	Washer, Lock – Spring (M10) DGBB, DGBC
2	155-2175	1	Clamp – DGCA, DGCB	6	154-2708	1	Gasket, Exhaust – DGBB, DGBC
3	154-2706	1	Adapter, Exhaust – DGBB, DGBC				
4	800-2086	4	Screw, Cap – Hex Head (M10 x 25mm) DGBB, DGBC				

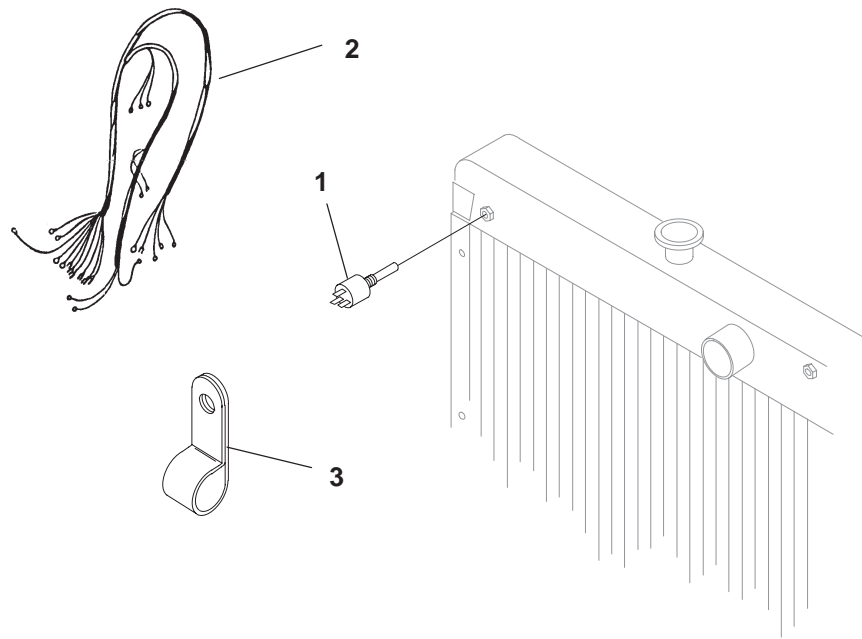
Muffler



179-2673,2679

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-2687	1	Muffler	10	870-0257	8	Nut, Hex – Locking (5/16–18)
2	155-2660	1	Bracket, Mounting – Front	11	821-0016	4	Screw, Self-Locking – Hex Washer Head (5/16–18 x 3/4")
3	155-2661	1	Bracket, Mounting – Rear	12	526-0115	4	Washer, Flat (5/16")
4	155-2701	1	Pipe, Exhaust – DGBB, DGBC	13	128-0154-02	1	Insulation, Foam (12" x 17")
5	155-2659	1	Tubing, Exhaust – Flexible – DGCA, DGCB	14	800-2086	4	Screw, Cap – Hex Head (M10 x 25mm) DGBB, DGBC
6	155-2062-01	1	Cap, Rain	15	154-2708	1	Gasket, Exhaust – DGBB, DGBC
7	155-2175	1	Clamp, Muffler DGBB, DGBC	16	850-2010	4	Washer, Lock – Spring (M10) DGBB, DGBC
	155-2175	2	DGCA, DGCB				
8	155-2080	1	Clamp, Muffler				
9	128-0154-01	1	Insulation, Foam (4-3/4" x 13")				

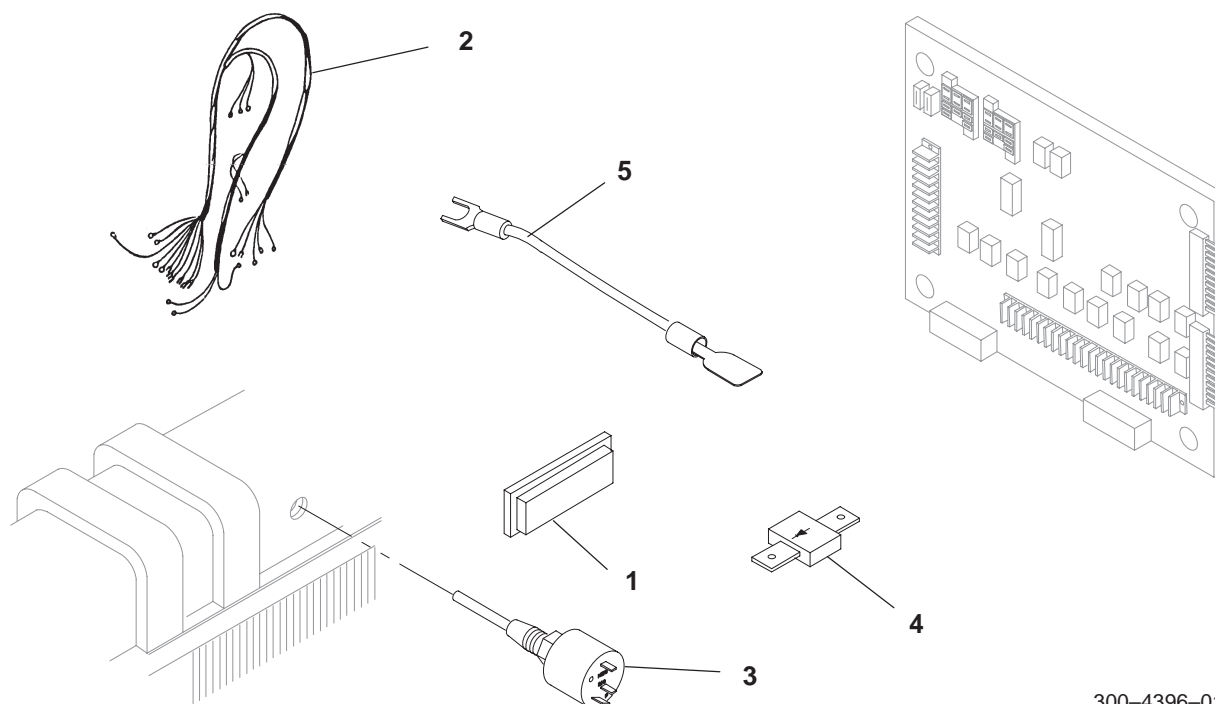
Low Coolant Level Sender Without Continuously Monitored Low Coolant Level



179-2688,-01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0322	1	Sender, Low Coolant Level (S7)	3	518-0548-15	1	Clip, Retaining – Insulated
2	338-2871	1	Harness, Wiring – Shutdown and Warning (3 Wire) (32")				

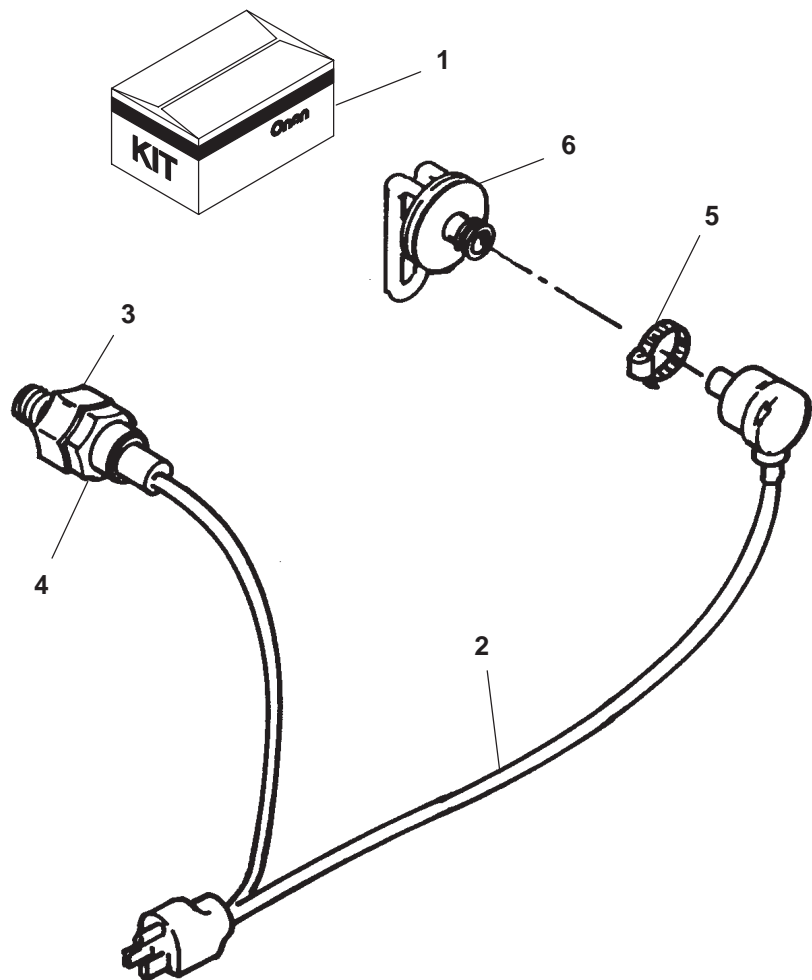
Low Coolant Level Sender With Continuously Monitored Low Coolant Level 12 Light Indicator Controls



300-4396-01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	322-0463-07	1	Lens, Indicator Light (Marked "Coolant Lo")	4	357-0030	1	Diode (6 Amp)
2	338-3035-01	1	Harness, Wiring (3 Wire) (138") (S7 to A11)	5	226-4661-02	2	Lead (4") (No Markings) (A11TB2-1 to Diode and A11TB2-16 to Diode)
3	193-0322	1	Sender, Low Coolant Level (S7)				

Engine Coolant Heater

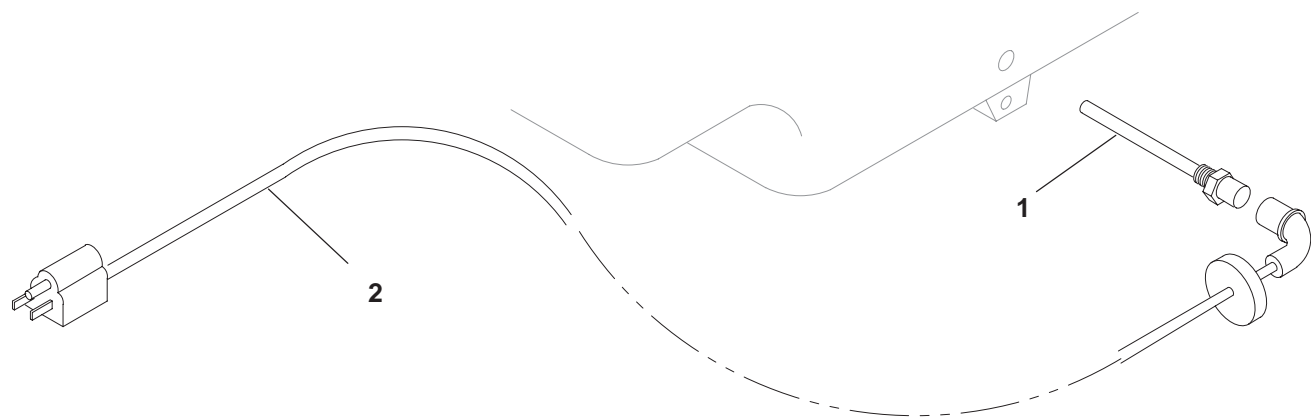


179-2238-01,02

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Kit, Heater – Engine Coolant (1000 Watt)	4	333-0478	1	*#Thermostat
	333-0558-01	1	120 Volt (Includes Parts Marked *)	5	503-1919-12	1	*#Clamp
	333-0558-02	1	240 Volt (Includes Parts Marked #)	6			Heater
					333-0557-01	1	* 120 Volt
					333-0557-02	1	# 240 Vol
2			Harness, Wiring				
	333-0475	1	* 120 Volt				
	333-0476	1	# 240 Volt				
3	333-0511	1	*#Well, Thermostat				

* – Parts Included in 333-0558-01 Engine Coolant Heater Kit
– Parts Included in 333-0558-02 Engine Coolant Heater Kit

Oil Heater

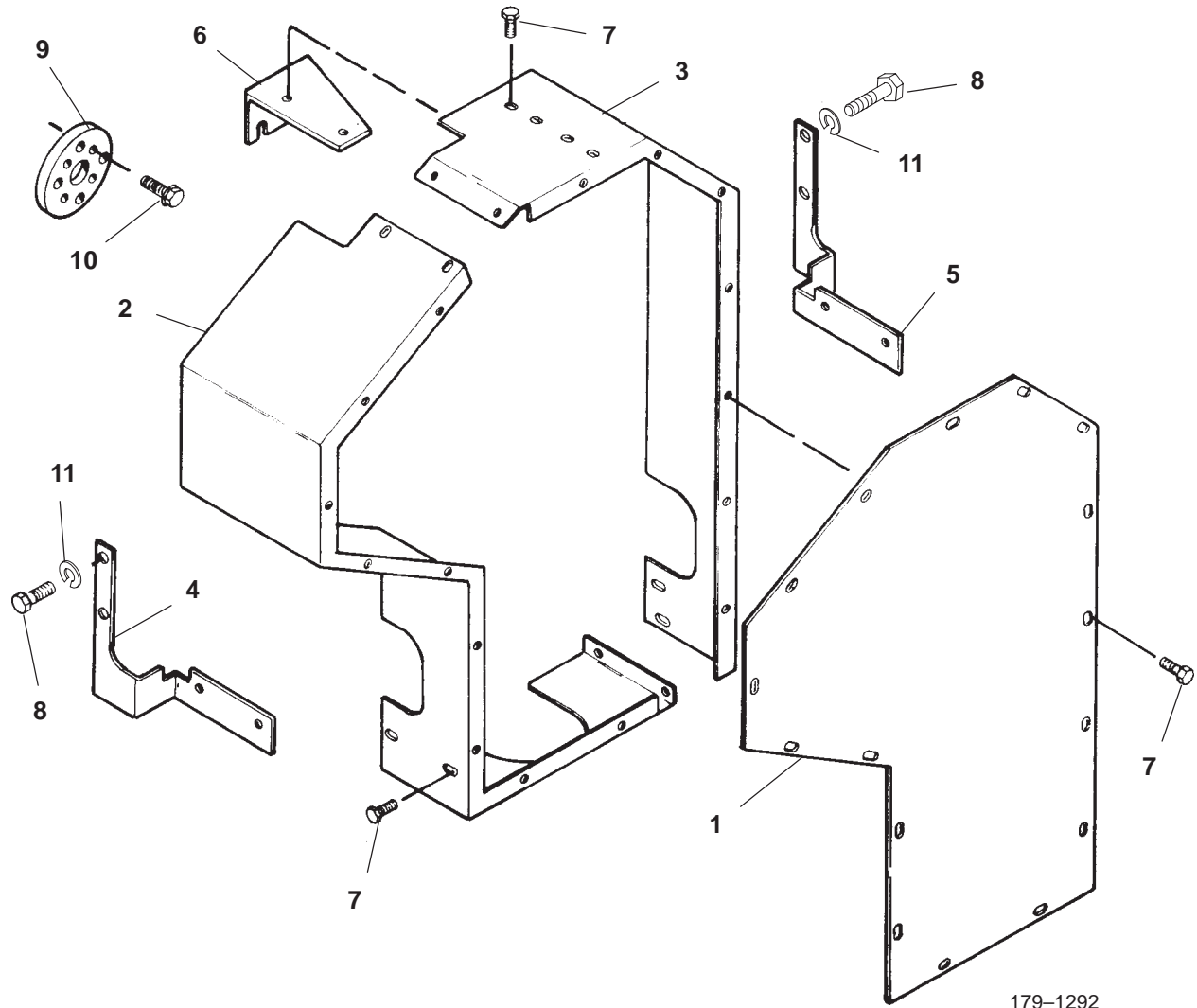


179-2283

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater, Oil (150 Watt)
	333-0429-01	1	120 Volt
	333-0429-02	1	240 Volt

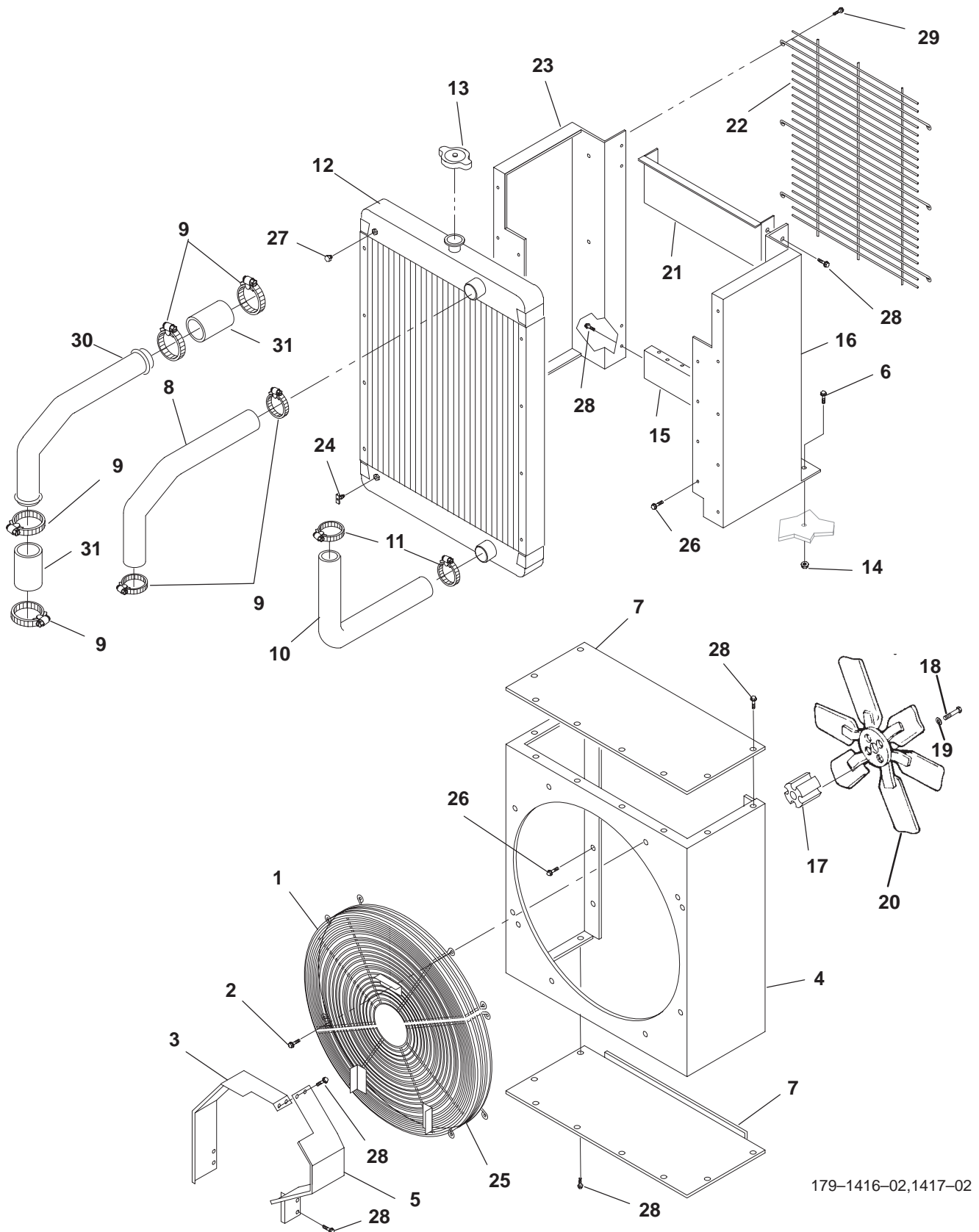
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2			Cable, Oil Heater (72")
	335-0168-01	1	120 Volt
	335-0168-02	1	240 Volt

Remote Radiator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3168	1	Cover, Belt Guard	8	800-2110	4	Screw, Cap – Hex Head (M12 x 20mm)
2	130-3169	1	Guard, Belt – Left Side	9	130-3582	1	Plate, Clamping
3	130-3170	1	Guard, Belt – Right Side	10	718-1812	4	Screw, Cap – Hex Head Flange (M8 x 25mm)
4	130-3171-01	1	Bracket, Mounting – Left Side	11	850-2012	4	Washer, Lock – Spring (M12)
5	130-3171-02	1	Bracket, Mounting – Right Side				
6	130-3172	1	Bracket, Mounting				
7	821-5002-03	24	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")				

Radiator

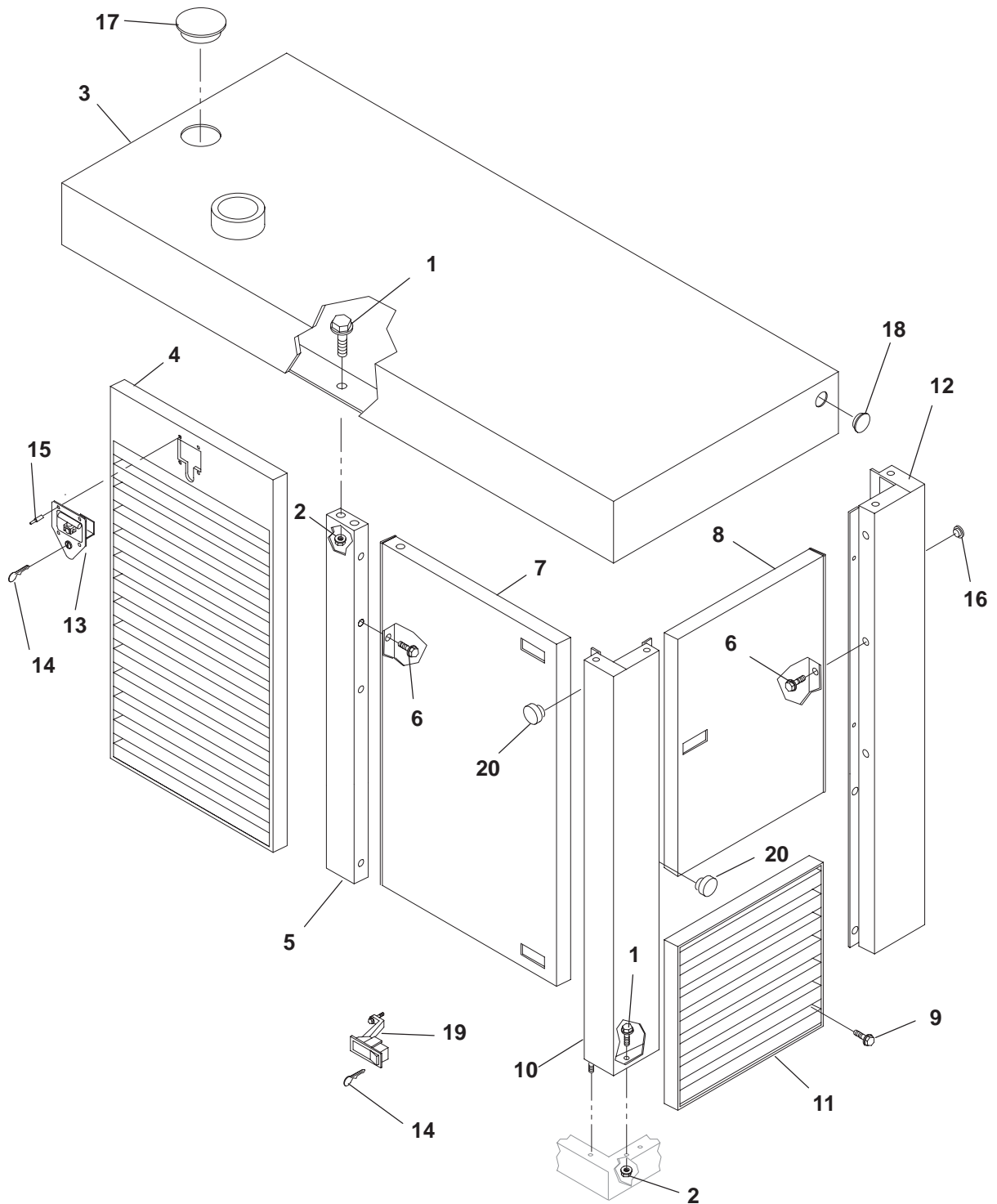


179-1416-02, 1417-02

Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3069-01	1	Guard, Fan – Right Side (Top)	17	130-3082	1	Spacer, Fan
2	821-5002-04	10	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")	18	800-2068	4	Screw, Cap – Hex Head (M8 x 75mm)
3	130-3085	1	Guard, Belt – Right Side	19	526-2100	4	Washer, Flat (M8)
4			Wrapper, Fan Shroud	20			Fan, Radiator
	130-3167	1	DGBB, DGBC		130-3166	1	DGBB, DGBC (5 Blade)
	130-3091	1	DGCA, DGCB		130-3161	1	DGCA, DGCB (6 Blade)
5	130-3086	1	Guard, Belt – Left Side	21	130-3089	1	Support, Grille – Upper
6	821-5004-02	6	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")	22	130-4452	1	Grille
7	130-3092	2	Shroud, Fan	23	130-4454-01	1	Guard, Radiator – Right Side
8	503-1928	1	Hose, Radiator – Upper – DGBB, DGBC	24	504-0028	1	Cock, Drain (3/8")
9			Clamp, Hose	25	130-3069-02	1	Guard, Fan – Left Side (Bottom)
	503-0365	2	DGBB, DGBC	26	821-5004-01	18	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1/2")
	503-0365	4	DGCA, DGCB	27	502-0153	1	Plug, Brass – Hex Head (1/4")
10	503-1929	1	Hose, Radiator – Lower	28	821-5002-03	32	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
11	503-0465	2	Clamp, Hose	29	821-5003-03	6	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
12	130-4357	1	Radiator (Includes Cap)	30	130-3083	1	Tube, Radiator – Upper – DGCA, DGCB
13	130-1788	1	Cap, Radiator	31	503-1391-01	2	Hose, Radiator (3-1/2") DGCA, DGCB
14	870-0281	6	Nut, Hex – Locking (3/8-16)				
15	130-3090	1	Support, Grille – Lower				
16	130-4454-02	1	Guard, Radiator – Left Side				

Housing

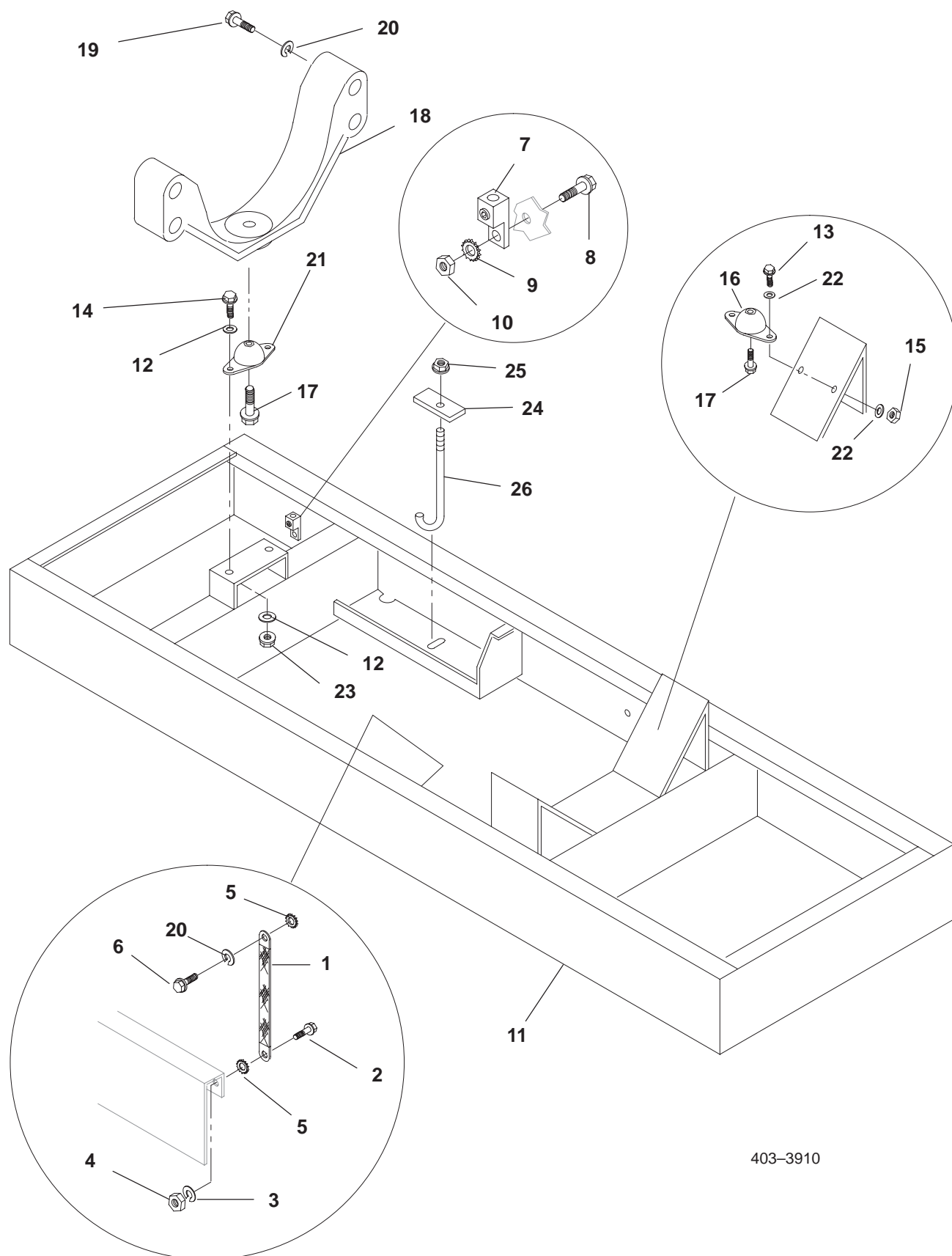


405-5346

Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-5004-02	20	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")	10	405-5351	1	Post, Housing – Rear – Right Side
2	870-0281	22	Nut, Hex – Locking (3/8-16)	11	405-5386	1	Grille, Rear
3	405-5358	1	Top	12	405-5352	1	Post, Housing – Rear – Left Side
4	405-3841	2	Door, Grille	13	406-0807	2	Latch (Includes Key)
5	405-5364	2	Post, Housing – Center	14	406-0782	7	Key, Latch
6	815-0137	13	Screw, Hex Head – Thread Forming (1/4-20 x 5/8")	15	818-0231-02	8	Rivet
7	405-5355	2	Door, Control – Side	16	508-0231	2	Bumper, Door
8	405-5370	1	Door, Control – Rear	17	517-0138-09	1	Plug, Hole (Fits 2-1/2" Hole)
9	821-5003-01	4	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")	18	517-0135	2	Plug, Hole (Fits 5/8" Hole)
				19	406-0765-01	5	Latch (Includes Key)
				20	405-4932	6	Bumper, Door

Skid

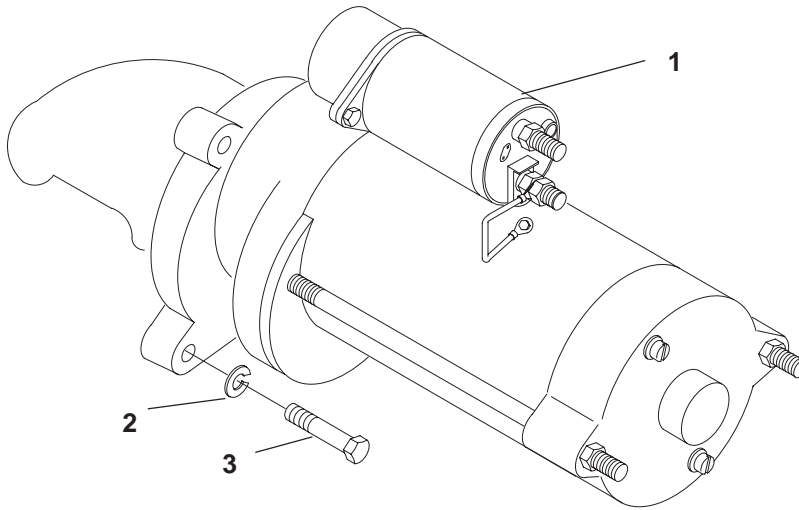


403-3910

Skid

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	337-0090	1	Strap, Ground	15	870-0531-03	4	Nut, Hex – Locking (7/16–14)
2	800-0091	1	Screw, Cap – Hex Head (1/2–13 x 1–1/4")	16	402-0568	2	Cushion, Vibration – Generator End
3	850-0060	1	Washer, Lock – Spring (1/2")	17	800-0520	3	Screw, Cap – Hex Head (3/4–10 x 1")
4	862-0016	1	Nut, Hex (1/2–13)	18	403-2567	1	Support, Engine
5	856-0013	2	Washer, Lock – W/EIT (1/2")	19	800-2121	4	Screw, Cap – Hex Head (M12 x 75mm)
6	800-2111	1	Screw, Cap – Hex Head (M12 x 25mm)	20	850-2012	5	Washer, Lock – Spring (M12)
7	332-1473	1	Lug, Solderless	21	402-0030	1	Cushion, Vibration – Engine End
8	800-0026	1	Screw, Cap – Hex Head (5/16–18 x 3/4")	22	526-0249	8	Washer, Flat (7/16")
9	856-0008	1	Washer, Lock – W/EIT (5/16")	23	870-0531-04	2	Nut, Hex – Locking (1/2–13)
10	870-0257	1	Nut, Hex – Locking (5/16–18)	24	416-0975-01	1	Bracket, Retainer – Battery
11	403-3902	1	Skid	25	870-0212	1	Nut, Locking – Hex Flange Head (1/4–20)
12	526-0219	4	Washer, Flat (17/32")	26	416-0853	1	Holddown, Battery
13	800-0605	4	Screw, Cap – Hex Head (7/16–14 x 1–1/4")				
14	800-0558	2	Screw, Cap – Hex Head (1/2–13 x 1–1/2")				

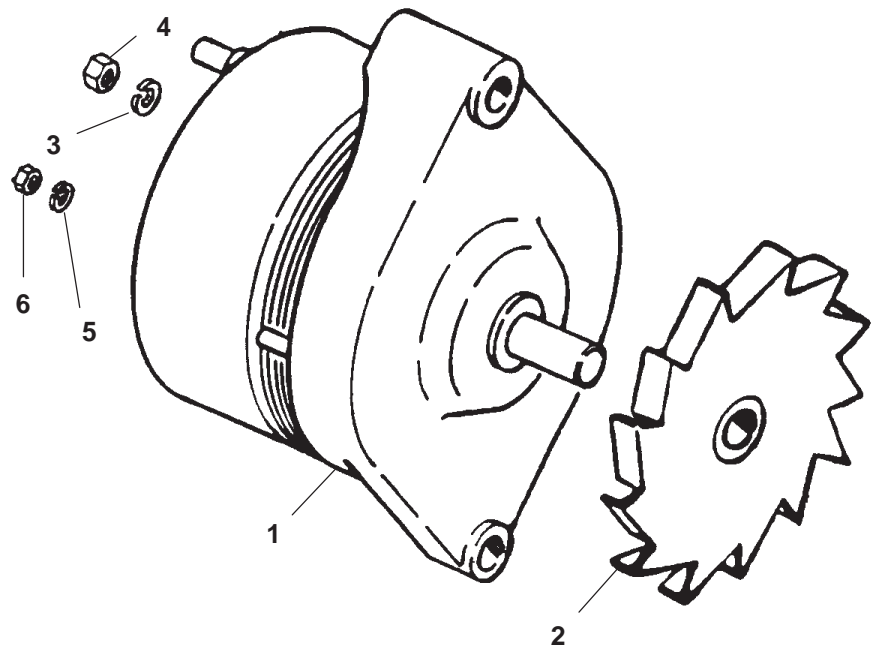
Starter



179-2629-05

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-2103	1	Starter – 24 VDC	3	800-2088	3	Screw, Cap – Hex Head (M10 x 35mm)
2	850-2010	3	Washer, Lock – Spring (M10)				

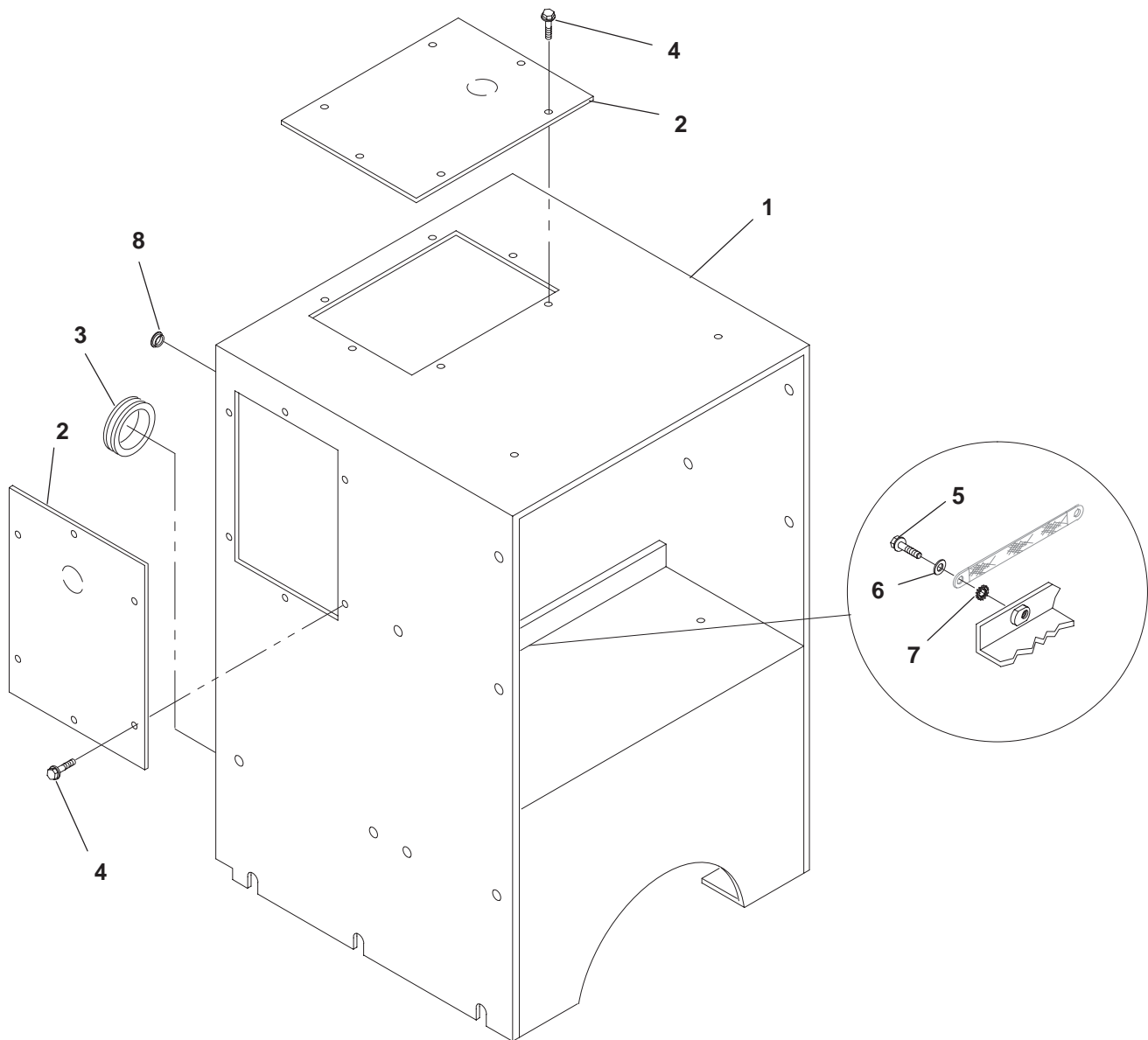
Alternator



179-2644-02

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-1983-02	1	Alternator – 24 VDC	3	850-2008	1	Washer, Lock – Spring (M8)
	191-2121	1	Regulator, Voltage – Alternator (Included With Alternator) (Not Illustrated)	4	860-2008	1	Nut, Hex (M8)
				5	850-2005	2	Washer, Lock – Spring (M5)
2	191-1981	1	Fan, Alternator	6	860-2006	2	Nut, Hex (M5)

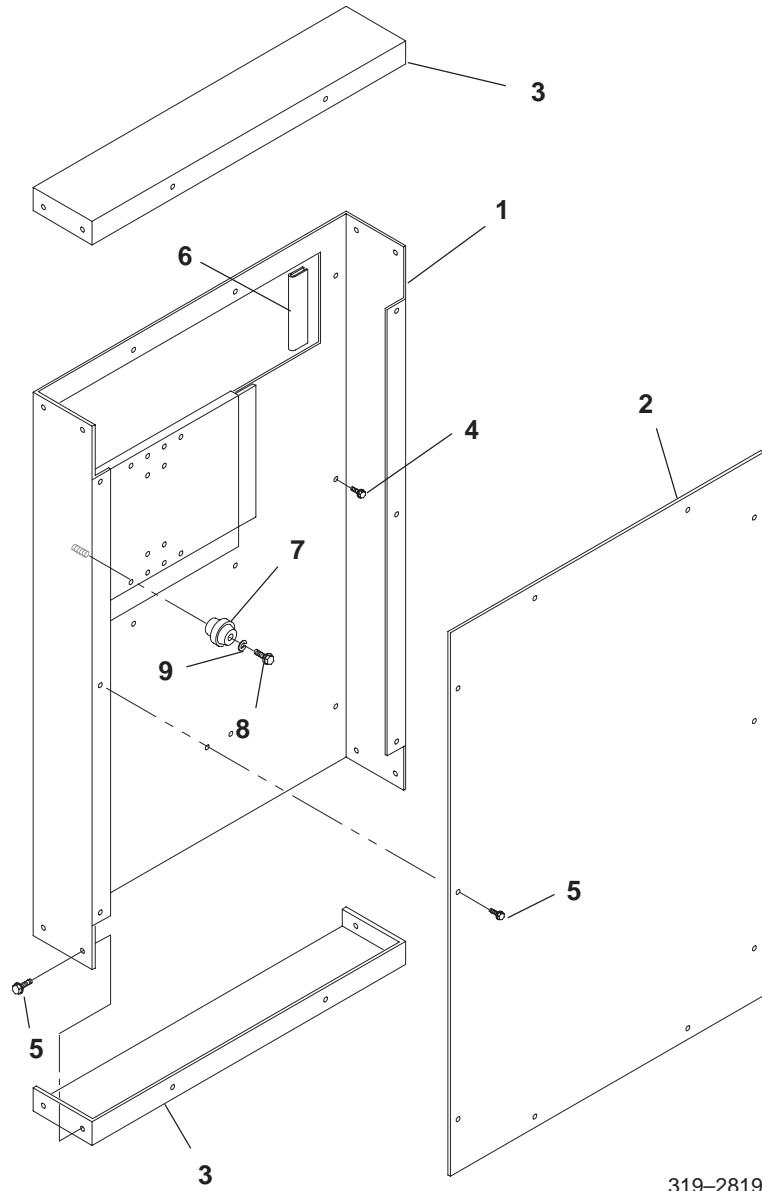
Control Housing



300-3873

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1189	1	Box, Mounting With Offset Lower Side Panels (Not Illustrated) UC22 Generator	4	815-0350	18	Screw, Self-Locking – Hex Washer Head – Slotted (#10-32 x 3/8")
	319-1193	1	Box, Mounting With Straight Lower Side Panels (Illustrated) UC27 Generator	5	821-0018	1	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")
2	319-0077	3	Panel	6	526-0018	1	Washer, Flat (1/4")
3	508-1057	1	Grommet	7	856-0006	1	Washer, Lock – EIT (1/4")
				8	517-0135	1	Plug, Hole (Fits 5/8" Hole)

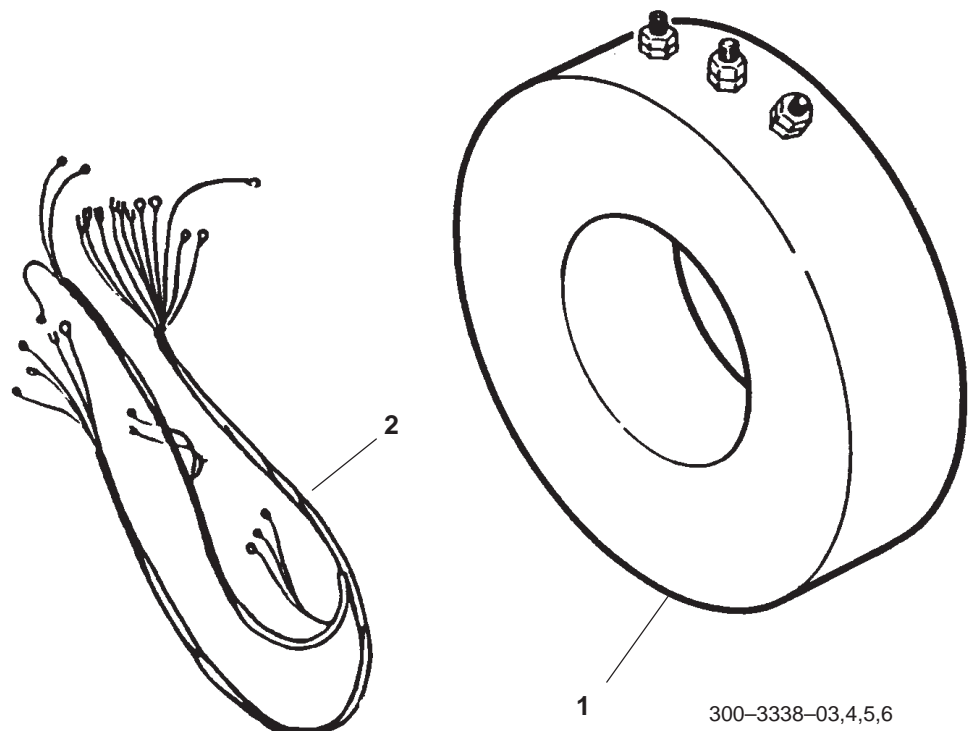
Entrance Box



319-2819

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2422	1	Box, Entrance	6	508-0305-02	—	Edging – Bulk (Order By The Foot – 1 Foot Required)
2	319-2425-01	1	Cover, Box	7	332-2744-07	1	Standoff, Insulator
3	319-2426	2	Cover, Box	8	800-0047	1	Screw, Cap – Hex Head (3/8–16 x 5/8")
4	821-0040	8	Screw, Self-Locking – Hex Washer Head (#10–32 x 5/16")	9	850-0050	1	Washer, Lock – Spring (3/8")
5	821-0010	20	Screw, Self-Locking – Hex Washer Head (1/4–20 x 1/2")				

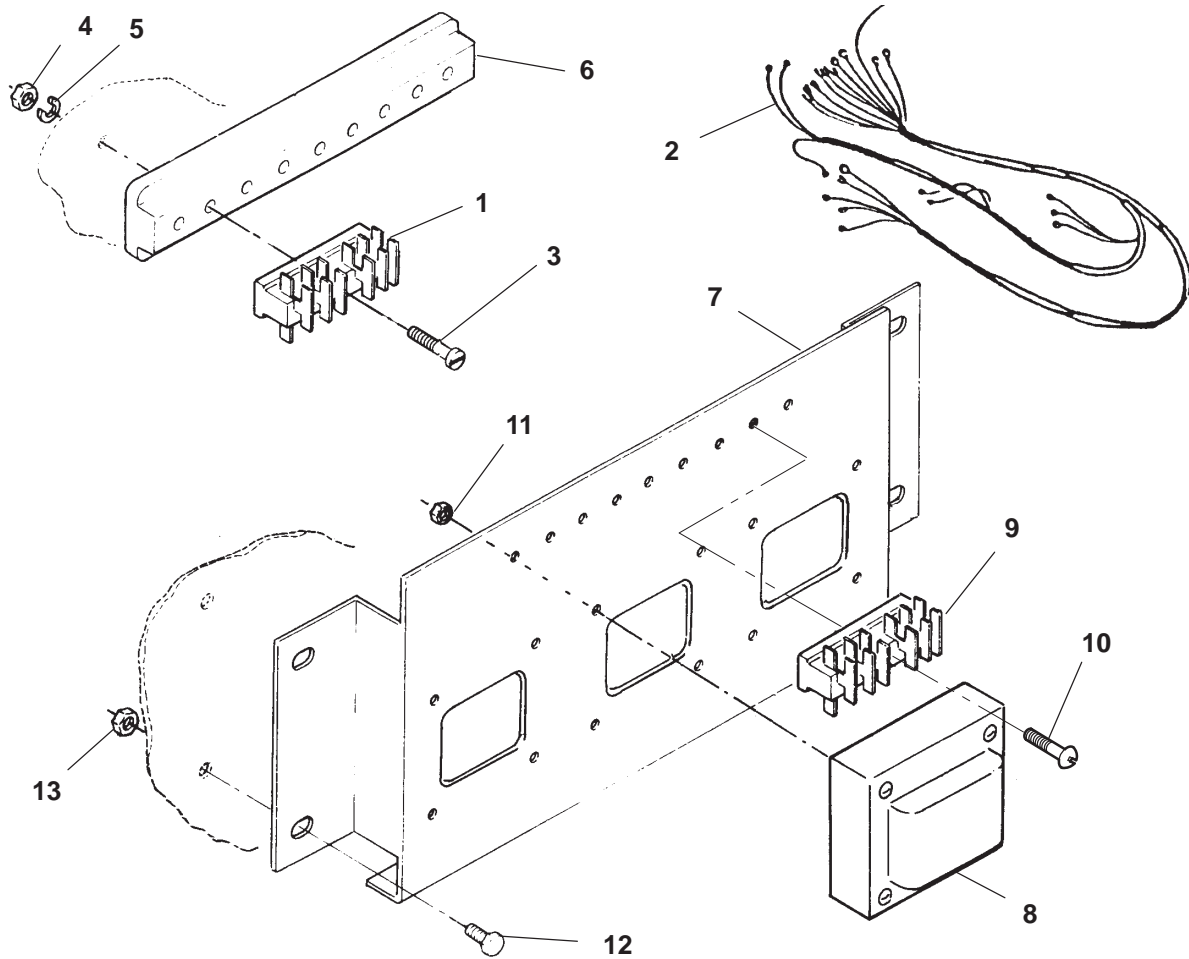
Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT21, CT22, CT23)
	302-1845-03	3	Ratio 75/5 or 150/5
	302-1845-04	3	Ratio 100/5 or 200/5
	302-1845-05	3	Ratio 150/5 or 300/5
	302-1845-06	3	Ratio 200/5 or 400/5

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	338-2229	1	Harness, Wiring

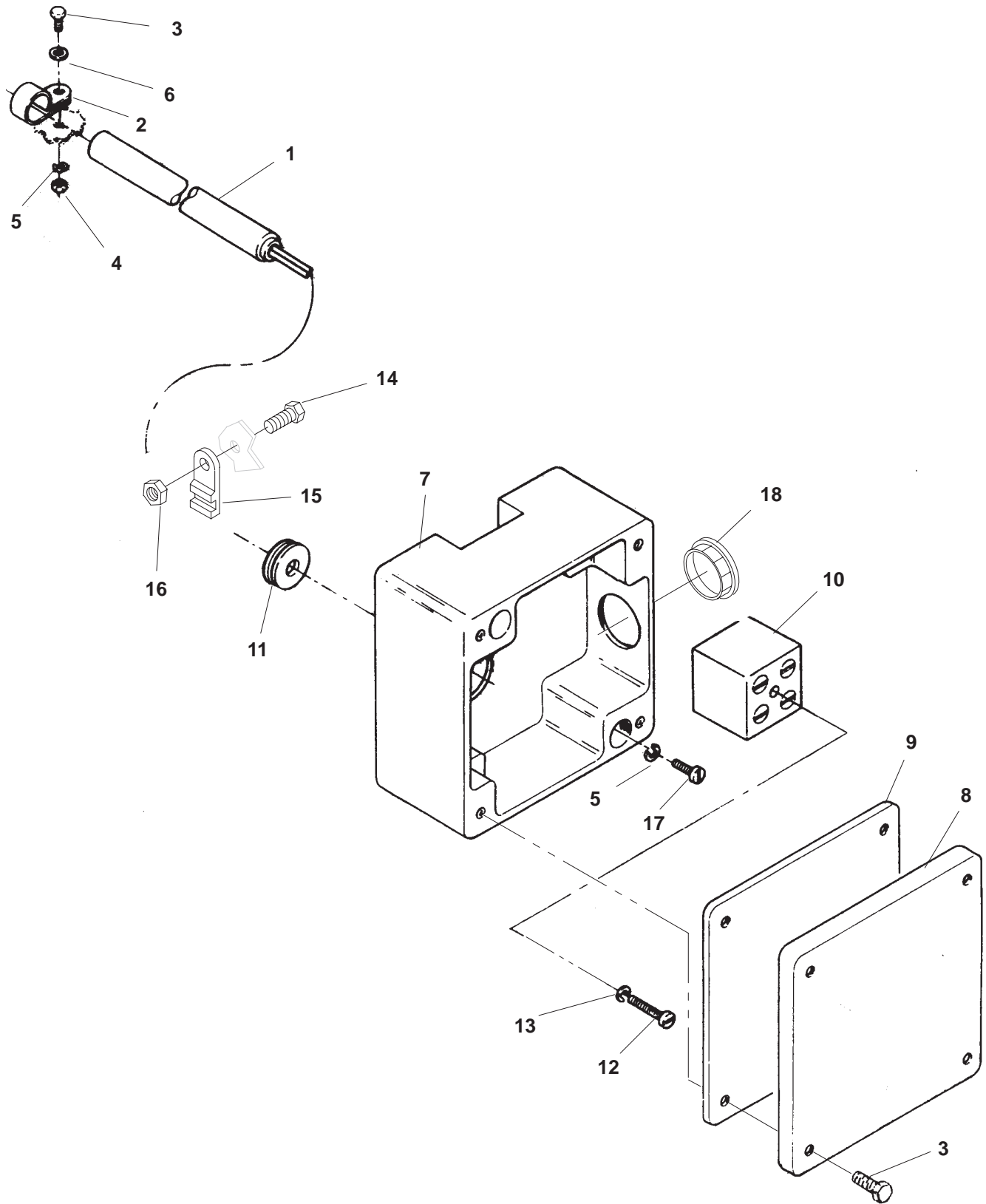
Auxiliary Terminal Block



539-1075

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-3007	3	*Block, Terminal	9	332-3007	3	*Block, Terminal
2	338-2506	1	Harness, Wiring 190-240, 380-480 Volt 12 Lead Reconnectable Generator	10	812-0079	2	*Screw, Machine – Round Head (#8-32 x 1/2")
	338-2796	1	240-480 DELTA Generator	11	870-0221	12	*Nut, Hex – W/ET (#8-32)
	338-3397	1	600 Volt WYE Generator	12	821-0016	4	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
3	812-0085	3	Screw, Machine – Round Head (#8-32 x 1-1/8")	13	870-0257	4	Nut, Self-Locking – Hex Washer Head (5/16-18)
4	870-0221	3	Nut, Hex – W/ET (#8-32)	* – Parts Not Used on 190-240, 380-480 Volt 12 Lead Reconnectable Generator Application			
5	850-0025	3	Washer, Lock – Spring (#8)				
6	232-3536	1	*Base, Terminal Block				
7	319-1498	1	*Bracket, Mounting – Transformer				
8			*Transformer (PTW,PTV,PTU) 240/480 Volt DELTA Generator				
	315-0717-01	2	PTW, PTU Position				
	315-0717	1	PTV Position				
	315-0717	3	600 Volt WYE Generator				

Generator Heater

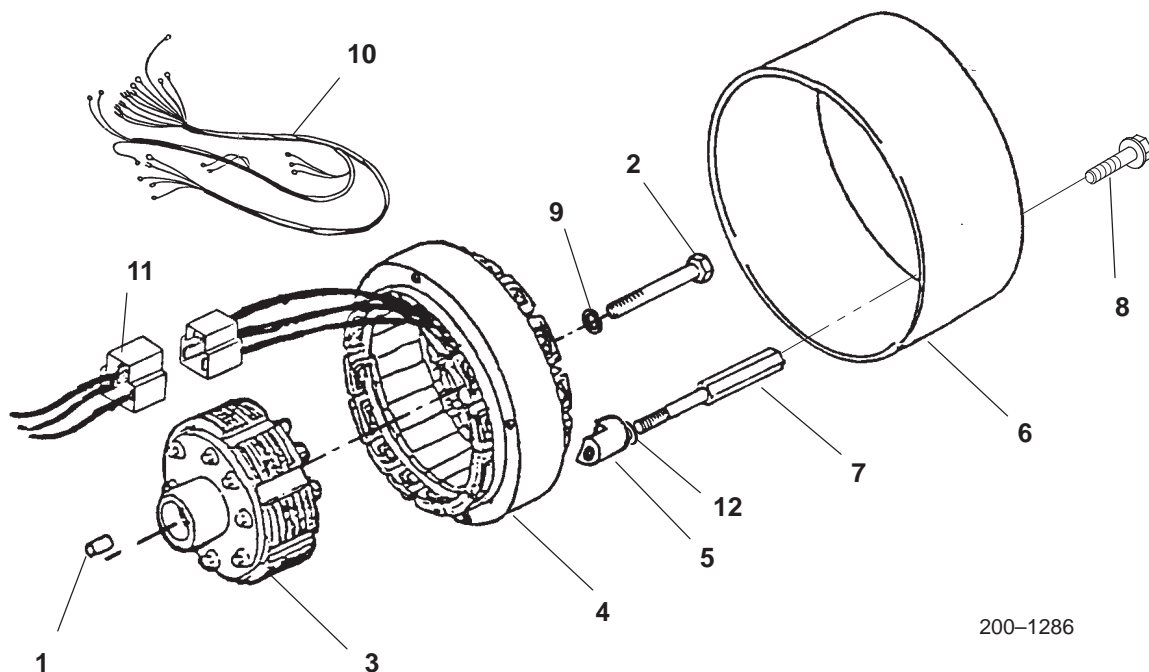


179-2286

Generator Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cartridge, Heater	10	332-3023	1	Block, Terminal
	333-0438-07	1	120 Volt	11	508-0228	1	Grommet
	333-0438-08	1	240 Volt	12	822-3047	1	Screw, Machine – Pan Head (M3 x 20mm)
2	332-3024-11	2	Clamp, Loop	13	850-2003	1	Washer, Lock – Spring (M3)
3	822-3075	6	Screw, Machine – Pan Head (M4 x 16mm)	14	800-3034	1	Screw, Cap – Hex Head (M4 x 12mm)
4	860-2005	2	Nut, Hex (M4)	15	332-3228	1	Mount, Cable Tie
5	850-2004	4	Washer, Lock – Spring (M4)	16	870-2064-01	1	Nut, Hex (M4)
6	526-2050	2	Washer, Flat (M4)	17	815-0792-04	2	Screw, Pan Head (M4 x 12mm)
7	330-0142	1	Box, Terminal	18	517-0021	1	Plug, Dot Button
8	330-0141-03	1	Cover, Terminal Box				
9	330-0141-04	1	Gasket, Terminal Box				

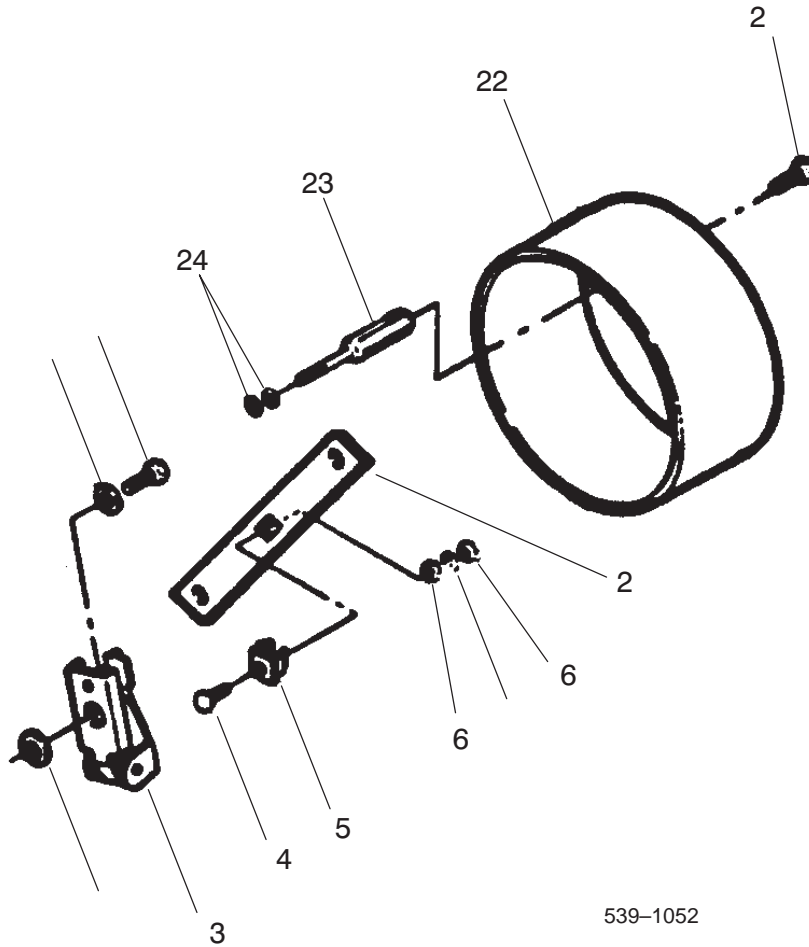
Permanent Magnet Exciter



200-1286

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	775-0049	1	Pin, Dowel	9	850-2010	1	Washer, Lock - Spring (M10)
2	815-0761-01	1	Bolt, Hex Head (M10 x 90mm)	10	338-3149	1	Harness, Wiring (AUX-P2,P3,P4 to VR21-P2,P3,P4) (3 Wire) (40")
3	201-3446	1	Rotor	11	338-3265	1	Harness, Wiring (P2,P3,P4 to P2,P3,P4) (3 Wire) (30")
4	220-4233	1	Stator	12	850-2006	4	Washer, Lock - Spring (M6)
5	232-3511	4	Clamp				
6	234-0875-02	1	Cover, End Bell				
7	232-3462-02	4	Spacer				
8	821-2020	4	Screw, Self-Locking - Hex Washer Head (M5 x 10mm)				

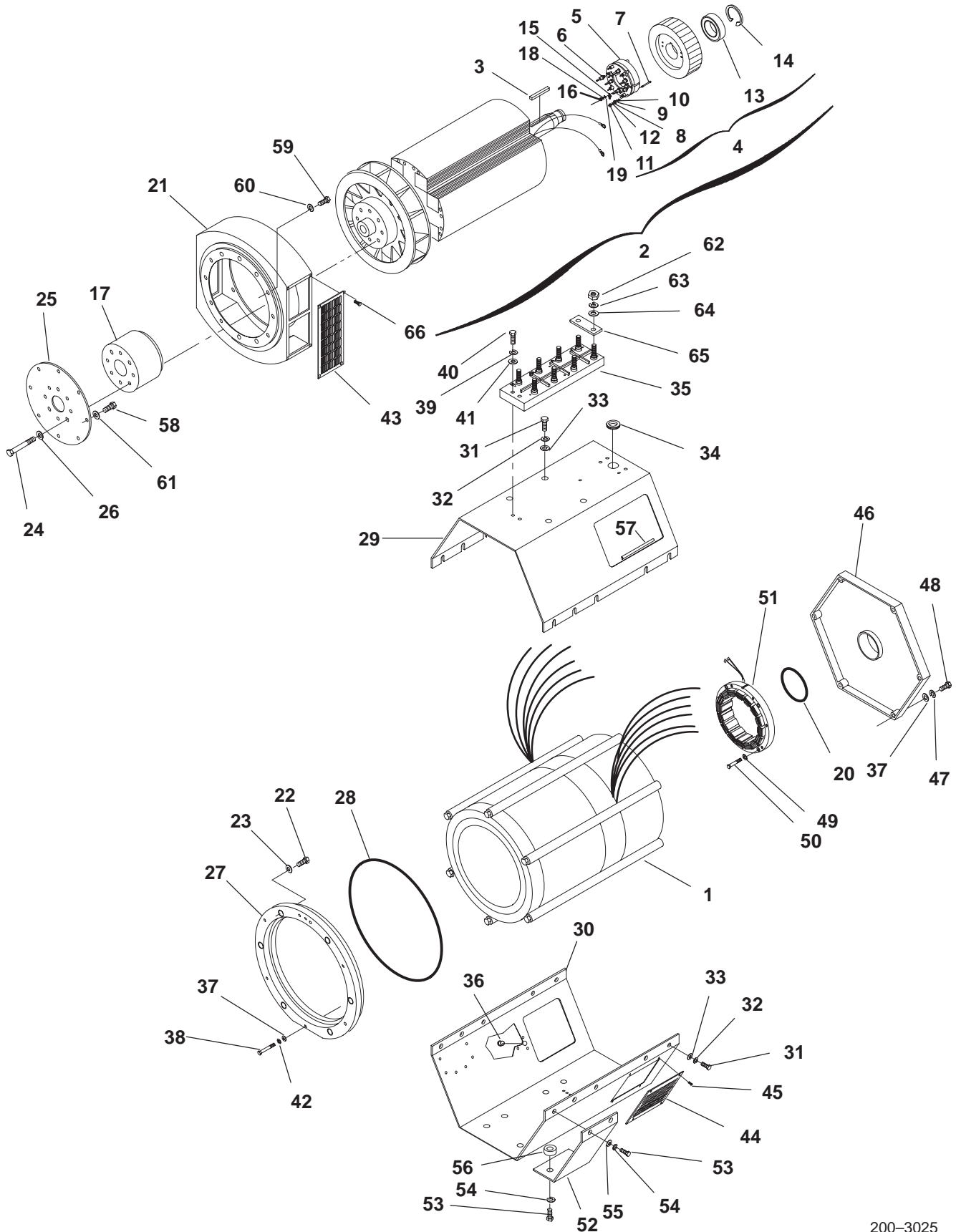
Overspeed Switch



539-1052

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2309	1	Bracket, Mounting – Overspeed	9	526-0240	1	Washer, Flat (13/32" ID x 1-1/2" OD x 1/8" Thk)
2	150-0956	1	Switch, Overspeed (S3)	10	821-2020	4	Screw, Self-Locking – Hex Washer Head (M5 x 10mm)
3	150-0723	1	Point, Overspeed				
4	870-0250	1	Nut, Insulated				
5	862-0001	2	Nut, Hex (1/4-20)	11	234-0875-01	1	Cover, End Bell
6	853-0013	1	Washer, Lock – W/ET (1/4")	12	232-3462-01	4	Spacer, Cover
7	856-0010	1	Washer, Lock – W/EIT (3/8")	13	526-2080	4	Washer, Flat (M6)
8	800-2088	1	Screw, Cap – Hex Head (M10 x 35mm)				

Generator



200-3025

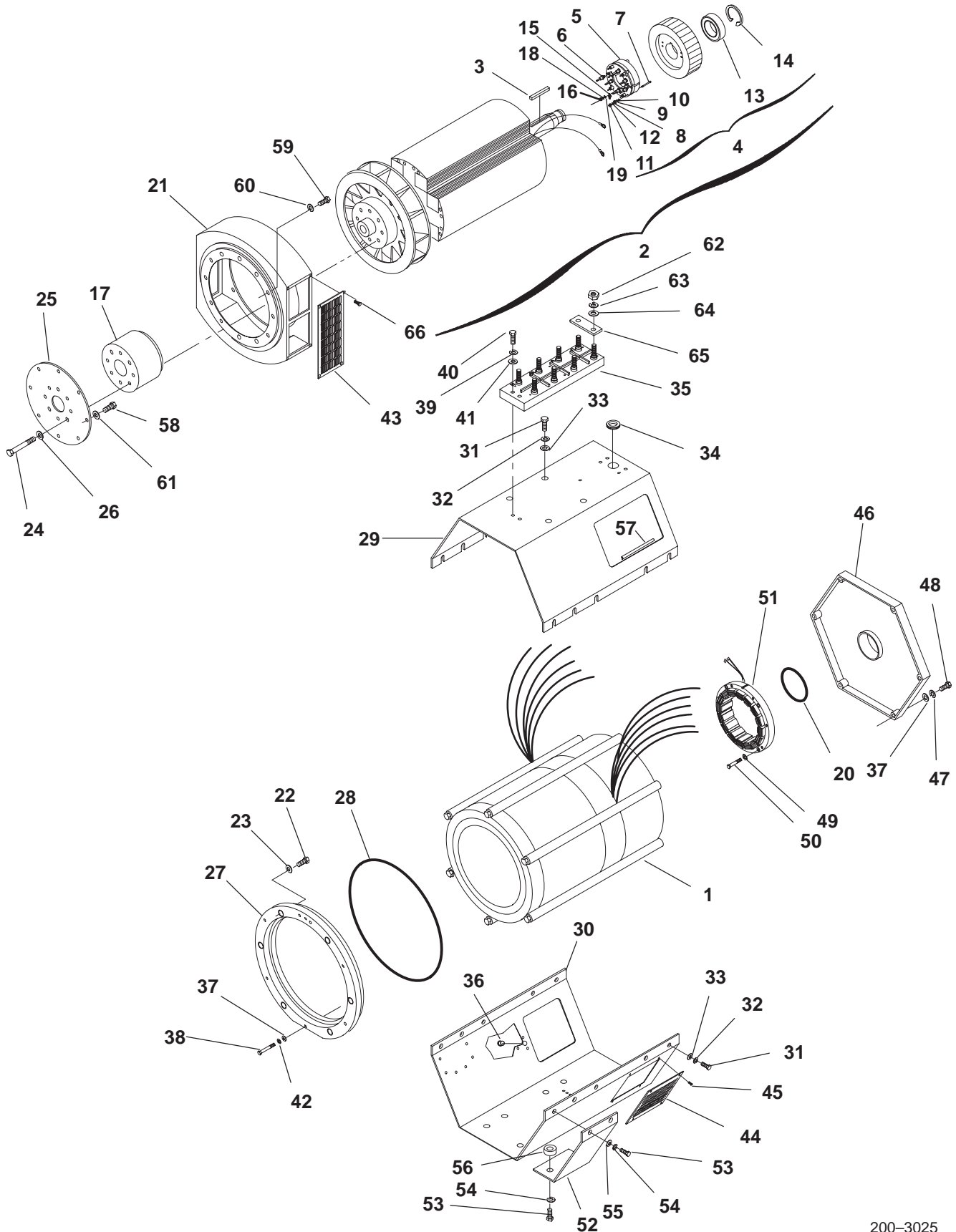
Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	–	1	Stator, Generator (See Separate Page for Part Numbers)	21			Adapter, Generator
2			Rotor Assembly, Generator (Includes Parts Marked *)	231-0328	1		UC22 Generator
			UC22 Generator	231-0325	1		UC27 Generator
	201-3496-01	1	130mm Stack Length	800-3017-41	6		Screw, Cap – Hex Head UC22 Generator (M10 x 45mm)
	201-3496-02	1	160mm Stack Length				UC27 Generator
	201-3496-03	1	180mm Stack Length	800-3017-42	5		M10 x 50mm
	201-3496-04	1	240mm Stack Length	800-3017-44	1		M10 x 60mm (12 O'Clock Position)
	201-3496-05	1	300mm Stack Length	23	850-0114-55	6	Washer, Lock – Spring (M10)
			UC27 Generator	24	720-1119	8	Screw, Cap – Hex Head (M16 x 40mm)
	201-3497-01	1	165mm Stack Length	25			Disc, Drive – Generator
	201-3497-02	1	190mm Stack Length	232-3699	2		UC22 Generator
3			*Key, Exciter Rotor	232-3699	3		UC27 Generator
			UC 22 Generator	526-0259	8		Washer, Flat (5/8") Hardened
	515-0299-02	1	130, 160mm Stack Length	26			Adapter, Generator Stator
	515-0299-04	1	180, 240mm Stack Length	27			UC22 Generator
	515-0299-05	1	300mm Stack Length	231-0318	1		UC27 Generator
	515-0298-02	1	UC27 Generator	231-0319	1		Seal, Edging – Bulk (Order By The Foot)
4			*Rotor Assembly, Exciter (Includes Parts Marked #)	28			UC22 Generator (2 Feet Required)
			UC22 Generator	508-0139	–		UC27 Generator (3 Feet Required)
	201-3434-01	1	130, 160mm Stack Length				Cover, Stator – Top
	201-3434-02	1	180, 240, 300mm Stack Length	29			UC22 Generator
	201-3434-02	1	UC27 Generator	234-0936-01	1		130, 160mm Stack Length
5			*#Rectifier Assembly (Includes Parts Marked +)	234-0936-02	1		180, 240mm Stack Length
	357-0091	1	Forward (With Positive Diode)	234-0936-03	1		300mm Stack Length
	357-0092	1	Reverse (With Negative Diode)	234-0937-01	1		UC27 Generator
6			*#+Diode	30			Cover, Stator – Bottom
	358-0135-01	3	Positive				UC22 Generator
	358-0135-02	3	Negative	232-3819-01	1		130, 160mm Stack Length
7	800-3009	6	*#+Screw, Cap – Hex Head (M4 x 35mm) (CR1,2,3,4,5,6)	232-3819-02	1		180, 240mm Stack Length
8	860-2005	6	*#+Nut, Hex (M4)	232-3819-03	1		300mm Stack Length
9	850-2004	6	*#+Washer, Lock – Spring (M4)	232-3820-01	1		UC27 Generator
10	526-2050	6	*#+Washer, Flat (M4)	31			Screw, Cap – Hex Head
11	870-2064-01	6	*#Nut, Locking – Nylon (M4)				UC22 Generator
12	526-2050	6	*#Washer, Flat (M4)	800-3017-37	8		130, 160mm Stack Length (M10 x 25mm)
13			*Bearing, Ball	800-3017-37	10		180, 240, 300mm Stack Length (M10 x 25mm)
	510-0165	1	UC22 Generator	800-3017-54	10		UC27 Generator (M12 x 30mm)
	510-0164	1	UC27 Generator				
14			*Ring, Retaining				
	518-0122	1	UC22 Generator				
	518-0083	1	UC27 Generator				
15	304-0807	1	*Varistor				
16	860-2006	2	*Nut, Hex (M5)				
17			*Hub, Drive – Generator				
	232-3438	1	UC22 Generator				
	232-3695	1	UC27 Generator				
18	850-2005	2	*Washer, Lock – Spring (M5)				
19	526-2060	2	*Washer, Flat (M5)				
20			O-Ring				
	509-0266-01	1	UC22 Generator				
	509-0266-02	1	UC27 Generator				

* – Parts Included in Generator Rotor Assemblies
– Parts Included in Exciter Rotor Assemblies
+ – Parts Included in Rectifier Assemblies

Continued...

Generator



200-3025

Generator

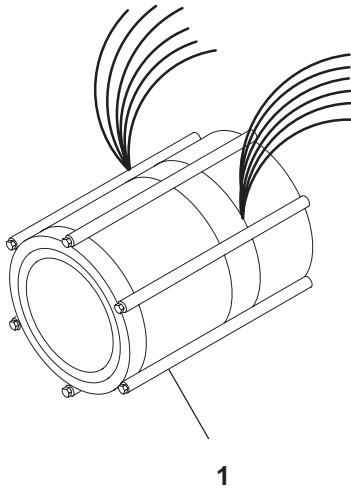
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				49	850-2006	4	Washer, Lock – Spring (M6)
				50			Screw, Cap – Hex Head
32			Washer, Lock – Spring		800-2039	4	UC22 Generator
	850-0114-55	8	130, 160mm Stack Length (M10)		800-2042	4	130, 160mm Stack Length (M6 x 45mm)
	850-0114-55	10	180, 240, 300mm Stack Length (M10)		800-2042	4	180, 240, 300mm Stack Length (M6 x 60mm)
	850-0114-56	10	UC27 Generator (M12)	51			UC27 Generator (M6 x 60mm)
33			Washer, Flat		220-4293-04	1	Stator, Exciter
	526-0399-62	8	130, 160mm Stack Length (M10)		220-4293-05	1	UC22 Generator
	526-0399-62	10	180, 240, 300mm Stack Length (M10)		220-4293-05	1	130, 160mm Stack Length
	526-0399-64	10	UC27 Generator (M12)	52			180, 240, 300mm Stack Length
34	508-1057	1	Grommet		232-3452	2	UC27 Generator
35	232-3421	1	Block, Terminal		232-3454	2	Bracket, Mounting – Generator Foot
36	517-0135	1	Plug, Hole	53			UC22 Generator
37			Washer		800-3017-38	8	UC27 Generator (M10 x 30mm)
	232-3441	12	UC22 Generator – Special		800-3017-55	8	UC27 Generator (M12 x 35mm)
	526-0423	12	UC27 Generator – Flat (13/32" ID x 1-1/4" OD x 1/4" Thk)	54			Washer, Lock – Spring
38			Screw, Cap – Hex Head		850-0114-55	8	UC22 Generator (M10)
	800-3017-20	6	UC22 Generator (M8 x 25mm)		850-0114-56	8	UC27 Generator (M12)
	800-3017-38	6	UC27 Generator (M10 x 30mm)	55			Washer, Flat
39			Washer, Lock – Spring (M8)		526-0399-62	4	UC22 Generator (M10)
	850-0114-54	3	UC22 Generator		526-0399-64	4	UC27 Generator (M12)
	850-2008	3	UC27 Generator	56			Spacer, Mounting Foot
40	800-2060	3	Screw, Cap – Hex Head (M8 x 35mm)		232-3730-03	4	UC22 Generator
41	526-2100	3	Washer, Flat (M8)		232-3730-04	4	UC27 Generator
42			Washer, Lock – Spring	57	508-0305-02	–	Edging – Bulk (Order By The Foot – 5 Feet Required) UC27 Generator
	850-0114-54	6	UC22 Generator (M8)	58	805-0018	8	Bolt, Place (3/8–16 x 1")
	850-0114-55	6	UC27 Generator (M10)	59			Screw, Cap – Hex Head
43			Guard, Fan – Generator		800-2088	8	UC22 Generator
	234-0903	2	UC22 Generator		800-2090	4	M10 x 35mm
	234-0867	2	UC27 Generator		800-2088	12	M10 x 45mm
44			Screen, Air Inlet				UC27 Generator (M10 x 35mm)
	234-0878	2	UC22 Generator	60	850-2010	12	Washer, Lock – Spring (M10)
	234-0879	2	UC27 Generator	61	526-0174	8	Washer, Flat (3/8")
45	821-6001-02	8	Screw, Self-Locking – Hex Washer Head (M5 x 12mm)	62	860-2009	8	Nut, Hex (M10)
46			Bell, End	63	850-2010	8	Washer, Lock – Spring (M10)
	211-0422	1	UC22 Generator	64	526-2120	8	Washer, Flat (M10)
	211-0423	1	UC27 Generator	65	332-2987	4	Link, Terminal
47			Washer, Lock – Spring	66	821-6001-01	8	Screw, Self-Locking – Hex Washer Head (M5 x 10mm)
	850-0114-54	6	UC22 Generator (M8)				
	850-0114-55	6	UC27 Generator (M10)				
48			Screw, Cap – Hex Head				
	800-3017-20	6	UC22 Generator (M8 x 25mm)				
	800-3017-38	6	UC27 Generator (M10 x 30mm)				

* – Parts Included in Generator Rotor Assemblies

– Parts Included in Exciter Rotor Assemblies

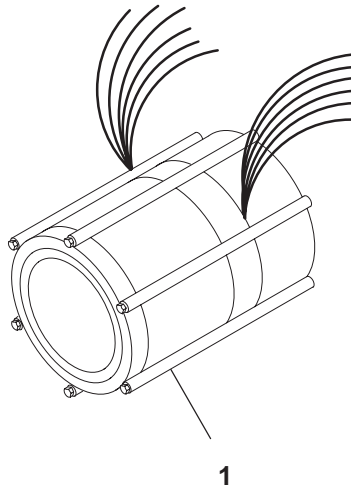
+ – Parts Included in Rectifier Assemblies

Generator Stator DGBB



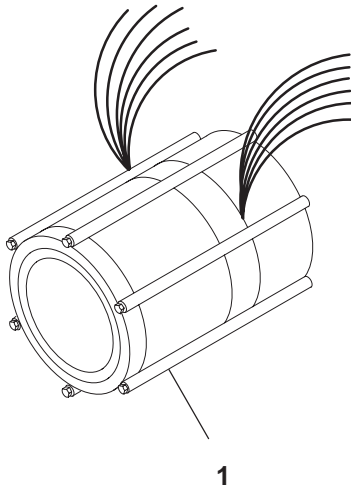
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator, Generator (UC22 Generator)
			4 Lead , Single Phase, Non-Reconnectible
	220-4447-01	1	130mm Stack Length, 125 Deg C, 50 Hertz
	220-4447-06	1	130mm Stack Length, 125 Deg C, 60 Hertz
	220-4447-07	1	160mm Stack Length, 80 Deg C, 60 Hertz
	220-4447-02	1	160mm Stack Length, 105 Deg C, 50 Hertz
	220-4447-07	1	160mm Stack Length, 105 Deg C, 60 Hertz
	220-4447-03	1	180mm Stack Length, 80 Deg C, 50 Hertz
			6 Lead , Three Phase, Reconnectible
	220-4447-26	1	130mm Stack Length, 105 Deg C
	220-4447-26	1	130mm Stack Length, 125 Deg C
	220-4447-27	1	160mm Stack Length, 80 Deg C
			12 Lead
			Three Phase, Non-Reconnectible
	220-4447-21	1	130mm Stack Length, 105 Deg C
	220-4447-21	1	130mm Stack Length, 125 Deg C
	220-4447-22	1	160mm Stack Length, 80 Deg C
			Single or Three Phase, Reconnectible
	220-4447-11	1	130mm Stack Length, 105 Deg C, 50 Hertz, Broad Range
	220-4447-11	1	130mm Stack Length, 105 Deg C, 60 Hertz, Broad Range
	220-4447-16	1	130mm Stack Length, 105 Deg C, 60 Hertz, Low Range
	220-4447-11	1	130mm Stack Length, 125 Deg C, 50 Hertz, Broad Range
	220-4447-11	1	130mm Stack Length, 125 Deg C, 60 Hertz, Broad Range
	220-4447-16	1	130mm Stack Length, 125 Deg C, 60 Hertz, Low Range
	220-4447-12	1	160mm Stack Length, 80 Deg C, 50 Hertz, Broad Range
	220-4447-12	1	160mm Stack Length, 80 Deg C, 60 Hertz, Broad Range
	220-4447-17	1	160mm Stack Length, 80 Deg C, 60 Hertz, Low Range
	220-4447-12	1	160mm Stack Length, 105 Deg C, 60 Hertz, Broad Range
	220-4447-12	1	160mm Stack Length, 105 Deg C, 50 Hertz, Full Output on Single Phase
	220-4447-12	1	160mm Stack Length, 125 Deg C, 60 Hertz, Broad Range
	220-4447-12	1	160mm Stack Length, 125 Deg C, 50 Hertz, Full Output on Single Phase
	220-4447-13	1	180mm Stack Length, 80 Deg C, 50 Hertz, Full Output on Single Phase
	220-4447-13	1	180mm Stack Length, 80 Deg C, 60 Hertz, Full Output on Single Phase

Generator Stator DGBC



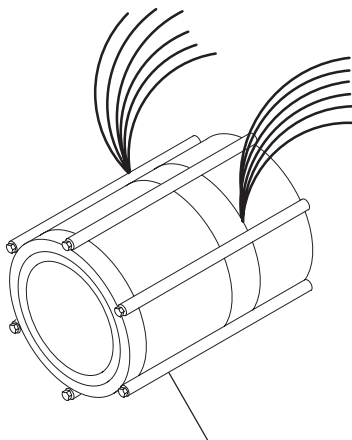
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator, Generator (UC22 Generator)
			4 Lead , Single Phase, Non-Reconnectible
	220-4447-07	1	160mm Stack Length, 105 Deg C, 60 Hertz
	220-4447-02	1	160mm Stack Length, 125 Deg C, 50 Hertz
	220-4447-07	1	160mm Stack Length, 125 Deg C, 60 Hertz
	220-4447-03	1	180mm Stack Length, 80 Deg C, 50 Hertz
	220-4447-08	1	180mm Stack Length, 80 Deg C, 60 Hertz
	220-4447-03	1	180mm Stack Length, 105 Deg C, 50 Hertz
			6 Lead , Three Phase, Reconnectible
	220-4447-27	1	160mm Stack Length, 80 Deg C
	220-4447-27	1	160mm Stack Length, 105 Deg C
	220-4447-27	1	160mm Stack Length, 125 Deg C
			12 Lead
			Three Phase, Non-Reconnectible
	220-4447-22	1	160mm Stack Length, 125 Deg C
	220-4447-23	1	180mm Stack Length, 80 Deg C
	220-4447-23	1	180mm Stack Length, 105 Deg C
			Single or Three Phase, Reconnectible
	220-4447-12	1	160mm Stack Length, 80 Deg C, 50 Hertz, Broad Range
	220-4447-17	1	160mm Stack Length, 80 Deg C, 60 Hertz, Low Range
	220-4447-12	1	160mm Stack Length, 105 Deg C, 50 Hertz, Broad Range
	220-4447-17	1	160mm Stack Length, 105 Deg C, 60 Hertz, Low Range
	220-4447-12	1	160mm Stack Length, 125 Deg C, 50 Hertz, Broad Range
	220-4447-12	1	160mm Stack Length, 125 Deg C, 60 Hertz, Broad Range
	220-4447-17	1	160mm Stack Length, 125 Deg C, 60 Hertz, Low Range
	220-4447-12	1	160mm Stack Length, 125 Deg C, 50 Hertz, Full Output on Single Phase
	220-4447-13	1	180mm Stack Length, 80 Deg C, 60 Hertz, Broad Range
	220-4447-13	1	180mm Stack Length, 105 Deg C, 60 Hertz, Broad Range
	220-4447-13	1	180mm Stack Length, 105 Deg C, 50 Hertz, Full Output on Single Phase
	220-4447-14	1	240mm Stack Length, 80 Deg C, 50 Hertz, Full Output on Single Phase
	220-4447-14	1	240mm Stack Length, 80 Deg C, 60 Hertz, Full Output on Single Phase
	220-4447-14	1	240mm Stack Length, 105 Deg C, 60 Hertz, Full Output on Single Phase
	220-4447-14	1	240mm Stack Length, 125 Deg C, 60 Hertz, Full Output on Single Phase

Generator Stator DGCA



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator, Generator UC22 Generator 4 Lead , Single Phase, Non-Reconnectible 220-4447-03 1 180mm Stack Length, 125 Deg C, 50 Hertz 220-4447-08 1 180mm Stack Length, 125 Deg C, 60 Hertz 220-4447-04 1 240mm Stack Length, 80 Deg C, 50 Hertz 220-4447-09 1 240mm Stack Length, 80 Deg C, 60 Hertz 220-4447-04 1 240mm Stack Length, 105 Deg C, 50 Hertz 220-4447-09 1 240mm Stack Length, 105 Deg C, 60 Hertz 6 Lead , Three Phase, Reconnectible 220-4447-27 1 160mm Stack Length, 125 Deg C 220-4447-28 1 180mm Stack Length, 105 Deg C 220-4447-29 1 240mm Stack Length, 80 Deg C 12 Lead Three Phase, Non-Reconnectible 220-4447-23 1 180mm Stack Length, 105 Deg C 220-4447-23 1 180mm Stack Length, 125 Deg C 220-4447-24 1 240mm Stack Length, 80 Deg C Single or Three Phase, Reconnectible 220-4447-12 1 160mm Stack Length, 125 Deg C, 50 Hertz, Broad Range 220-4447-17 1 160mm Stack Length, 125 Deg C, 60 Hertz, Low Range 220-4447-13 1 180mm Stack Length, 105 Deg C, 50 Hertz, Broad Range 220-4447-13 1 180mm Stack Length, 105 Deg C, 60 Hertz, Broad Range 220-4447-18 1 180mm Stack Length, 105 Deg C, 60 Hertz, Low Range 220-4447-13 1 180mm Stack Length, 125 Deg C, 60 Hertz, Broad Range 220-4447-14 1 240mm Stack Length, 80 Deg C, 50 Hertz, Broad Range 220-4447-14 1 240mm Stack Length, 80 Deg C, 60 Hertz, Broad Range 220-4447-19 1 240mm Stack Length, 80 Deg C, 60 Hertz, Low Range 220-4447-14 1 240mm Stack Length, 105 Deg C, 50 Hertz, Full Output on Single Phase 220-4447-14 1 240mm Stack Length, 125 Deg C, 60 Hertz, Broad Range 220-4447-14 1 240mm Stack Length, 125 Deg C, 50 Hertz, Full Output on Single Phase UC27 Generator 12 Lead , Single or Three Phase, Reconnectible 220-4448-13 1 165mm Stack Length, 80 Deg C, 50 Hertz, Full Output on Single Phase 220-4448-13 1 165mm Stack Length, 80 Deg C, 60 Hertz, Full Output on Single Phase 220-4448-13 1 165mm Stack Length, 105 Deg C, 60 Hertz, Full Output on Single Phase

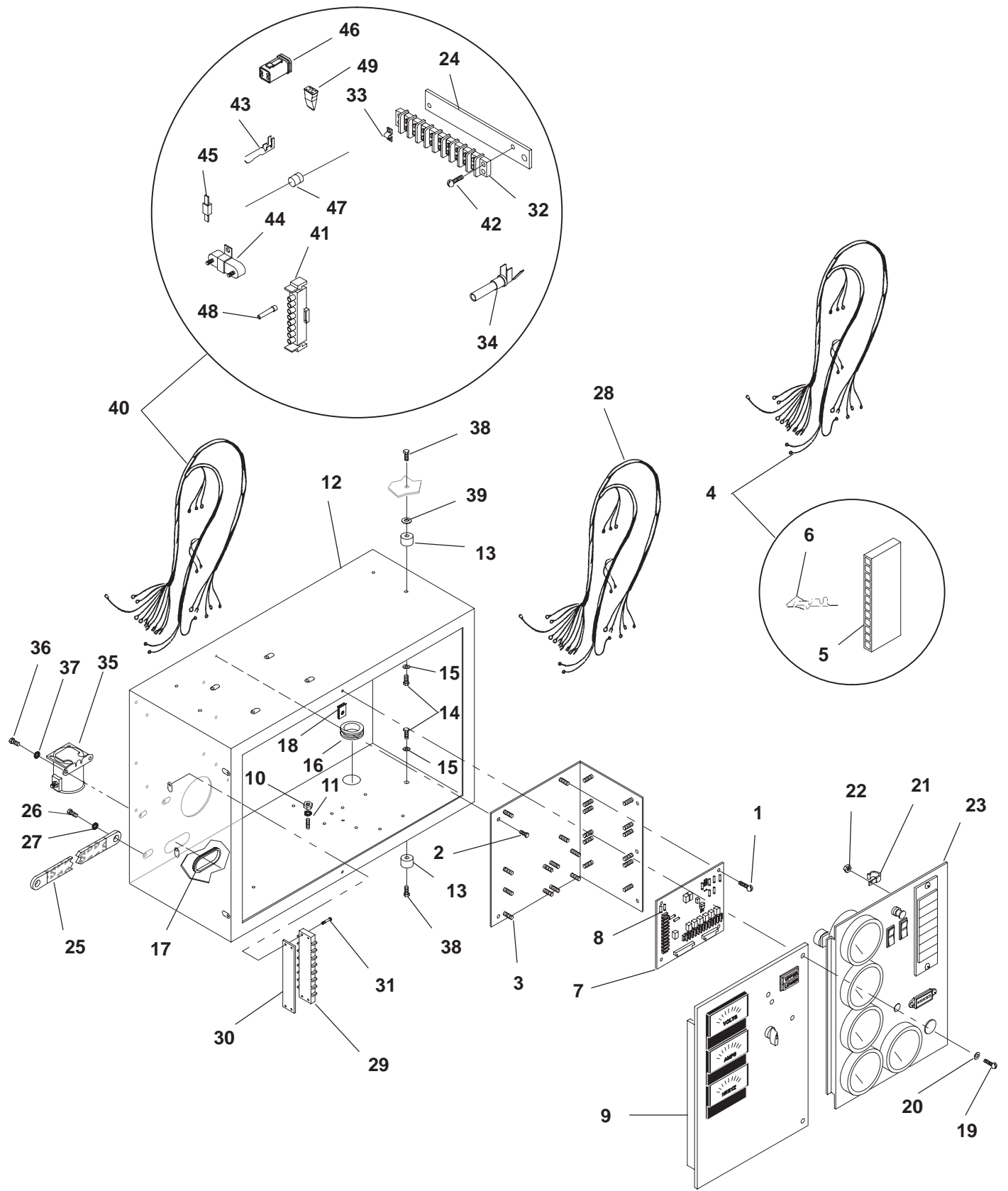
Generator Stator DGCB



1

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator, Generator UC22 Generator 4 Lead , Single Phase, Non-Reconnectible 240mm Stack Length, 125 Deg C, 50 Hertz 240mm Stack Length, 125 Deg C, 60 Hertz 6 Lead , Three Phase, Reconnectible 180mm Stack Length, 125 Deg C 240mm Stack Length, 105 Deg C 12 Lead Three Phase, Non-Reconnectible 240mm Stack Length, 105 Deg C 240mm Stack Length, 125 Deg C 300mm Stack Length, 80 Deg C Single or Three Phase, Reconnectible 240mm Stack Length, 105 Deg C, 50 Hertz, Broad Range 240mm Stack Length, 105 Deg C, 60 Hertz, Broad Range 240mm Stack Length, 105 Deg C, 60 Hertz, Low Range 240mm Stack Length, 125 Deg C, 50 Hertz, Broad Range 240mm Stack Length, 125 Deg C, 60 Hertz, Broad Range 240mm Stack Length, 125 Deg C, 60 Hertz, Low Range UC27 Generator 4 Lead , Single Phase, Non-Reconnectible 165mm Stack Length, 80 Deg C, 60 Hertz 165mm Stack Length, 105 Deg C, 50 Hertz 165mm Stack Length, 105 Deg C, 60 Hertz 190mm Stack Length, 80 Deg C, 50 Hertz 6 Lead , Three Phase, Reconnectible, 165mm Stack Length, 80 Deg C 12 Lead , Single or Three Phase, Reconnectible 165mm Stack Length, 80 Deg C, 50 Hertz, Broad Range 165mm Stack Length, 80 Deg C, 60 Hertz, Broad Range 165mm Stack Length, 80 Deg C, 60 Hertz, Low Range 165mm Stack Length, 105 Deg C, 50 Hertz, Full Output on Single Phase 165mm Stack Length, 105 Deg C, 60 Hertz, Full Output on Single Phase 165mm Stack Length, 125 Deg C, 50 Hertz, Full Output on Single Phase 165mm Stack Length, 125 Deg C, 60 Hertz, Full Output on Single Phase 190mm Stack Length, 80 Deg C, 50 Hertz, Full Output on Single Phase 190mm Stack Length, 80 Deg C, 60 Hertz, Full Output on Single Phase
	220-4447-04	1	
	220-4447-09	1	
	220-4447-28	1	
	220-4447-29	1	
	220-4447-24	1	
	220-4447-24	1	
	220-4447-25	1	
	220-4447-14	1	
	220-4447-14	1	
	220-4447-19	1	
	220-4447-14	1	
	220-4447-14	1	
	220-4447-19	1	
	220-4448-07	1	
	220-4448-01	1	
	220-4448-07	1	
	220-4448-02	1	
	220-4448-31	1	
	220-4448-13	1	
	220-4448-13	1	
	220-4448-19	1	
	220-4448-13	1	
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	220-4448-14	1	

Control

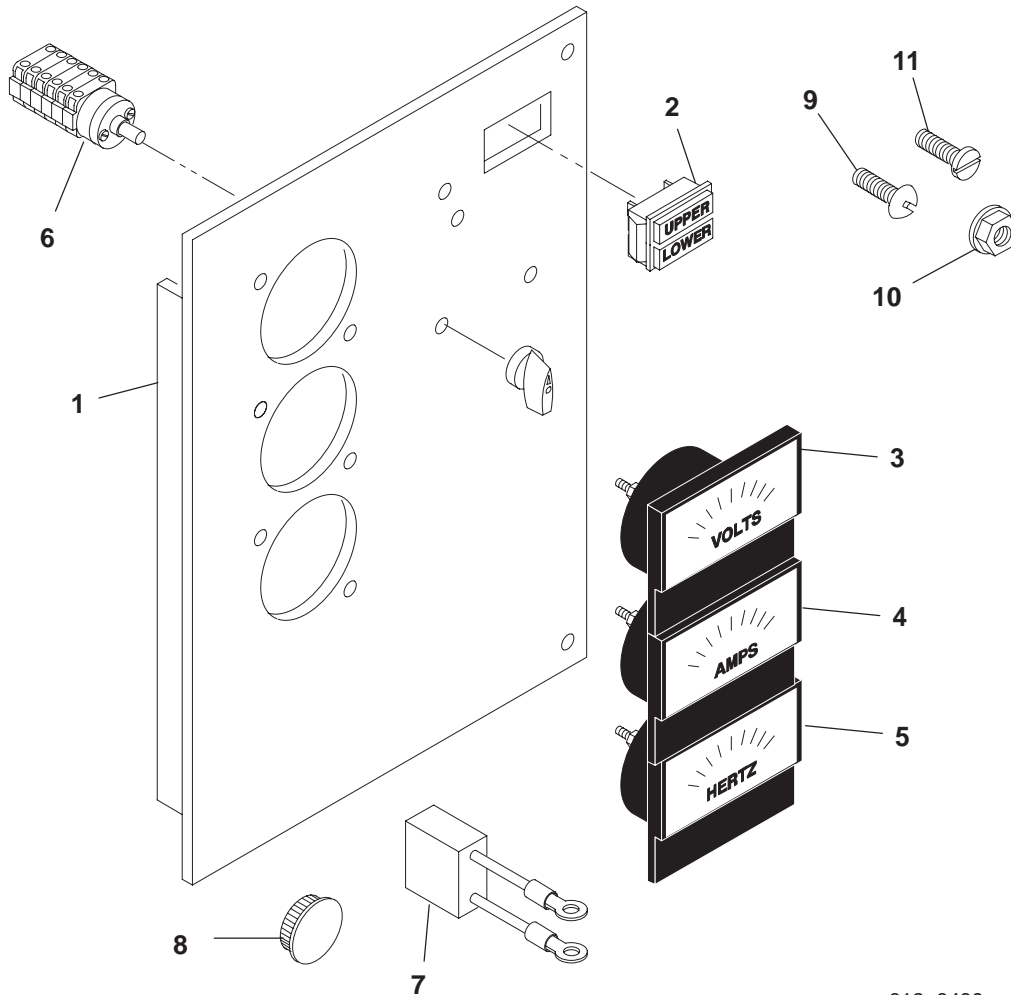


612-6487

Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0544	4	Screw, Machine – Round Head – Cross Recessed W/IT (#6-32 x 1/2")	25	337-0049	3	Strap, Ground
2	821-0004	8	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16")	26	800-0024	3	Screw, Cap – Hex Head (5/16-18 x 1/2")
3	301-8851	1	Bracket, Mounting	27	856-0008	3	Washer, Lock – W/EIT (5/16")
4	338-3252	1	Harness, Wiring – DC Control Door Assembly to Engine Monitor Board (Includes Connector Housing and Contact Pins)	28	338-2278	1	Harness, Wiring – AC Control Door Assembly to TB21 Terminal Block (Includes TB21 Terminal Block)
5	323-1308	1	Housing, Connector (12 Place) (J4)	29	332-0607	1	Block, Terminal – 12 Place (TB21)
6	323-1302	11	Pin, Contact	30	332-2723	1	Strip, Marker
7			Board Assembly, Printed Circuit – Engine Monitor (Includes Fuses) (A11)	31	812-0065	2	Screw, Machine – Hex Head (#6-32 x 5/8")
	300-4295	1	7 Light Control	32	332-0604	1	*Block, Terminal – 12 Place (T26)
	300-4297	1	12 Light Control	33	332-1043	4	*Jumper
8			Fuse	34	323-1492	3	*Socket, Contact
	321-0307-03	2	5 Amp (Tan) (F4, F5)	35	307-2167	1	Solenoid, Pre-Heat – Glow Plugs (K2)
	321-0307-06	1	15 Amp (Light Blue) (F3)	36	821-0010	2	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
	321-0307-07	2	20 Amp (Yellow) (F1, F2)	37	856-0006	1	Washer, Locking – W/EIT (1/4")
9	–	–	Door Assembly – Control – AC (See Separate Page For Components)	38	821-0014	4	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")
10	871-0015	1	Nut, Hex (1/4-20)	39	526-0013	2	Washer, Flat (25/64")
11	853-0013	1	Washer, Lock – W/ET (1/4")	40	338-3296	1	Harness, Wiring – Engine to Control (Includes Parts Marked *)
12	301-8065	1	Box, Control	41			Housing, Connector
13	402-0527	4	Isolator, Vibration		323-1306	1	* 8 Place (J1)
14	800-0045	4	Screw, Cap – Hex Head (5/16-18 x 3/8")		323-1304	1	* 6 Place (J2)
15	850-0045	4	Washer, Lock – Spring (5/16")	42	815-0538	2	*Screw, Machine – Round Head – Cross Recessed W/IT (#8-32 x 1/2")
16	508-0001	1	Grommet (Fits 1-1/16" Hole)	43	323-1200	12	*Socket, Contact
17	508-0051	1	Grommet (Fits 2" Hole)	44	353-0094-01	1	*Resistor (R1)
18	406-0332	2	Receptacle, Fastener	45	357-0030	1	*Rectifier (CR1)
19	406-0333	2	Stud, Fastener	46	323-1546	1	*Plug, Connector – 4 Place (E1)
20	406-0334	2	Washer, Stud Retainer	47	359-0051	1	*Diode (CR2)
21	332-0052	2	Clip, Wire	48	323-1591	1	*Plug, Connector
22	870-0131	6	Nut, Hex – W/ET (#10-32)	49	323-1548	1	*Wedge, Plug
23	–	–	Door, Assembly – Control – DC (See Separate Page For Components)				
24	319-2006-01	1	*Bracket, Mounting – Terminal Block				* – Parts Included in 338-3296 Engine Wiring Harness

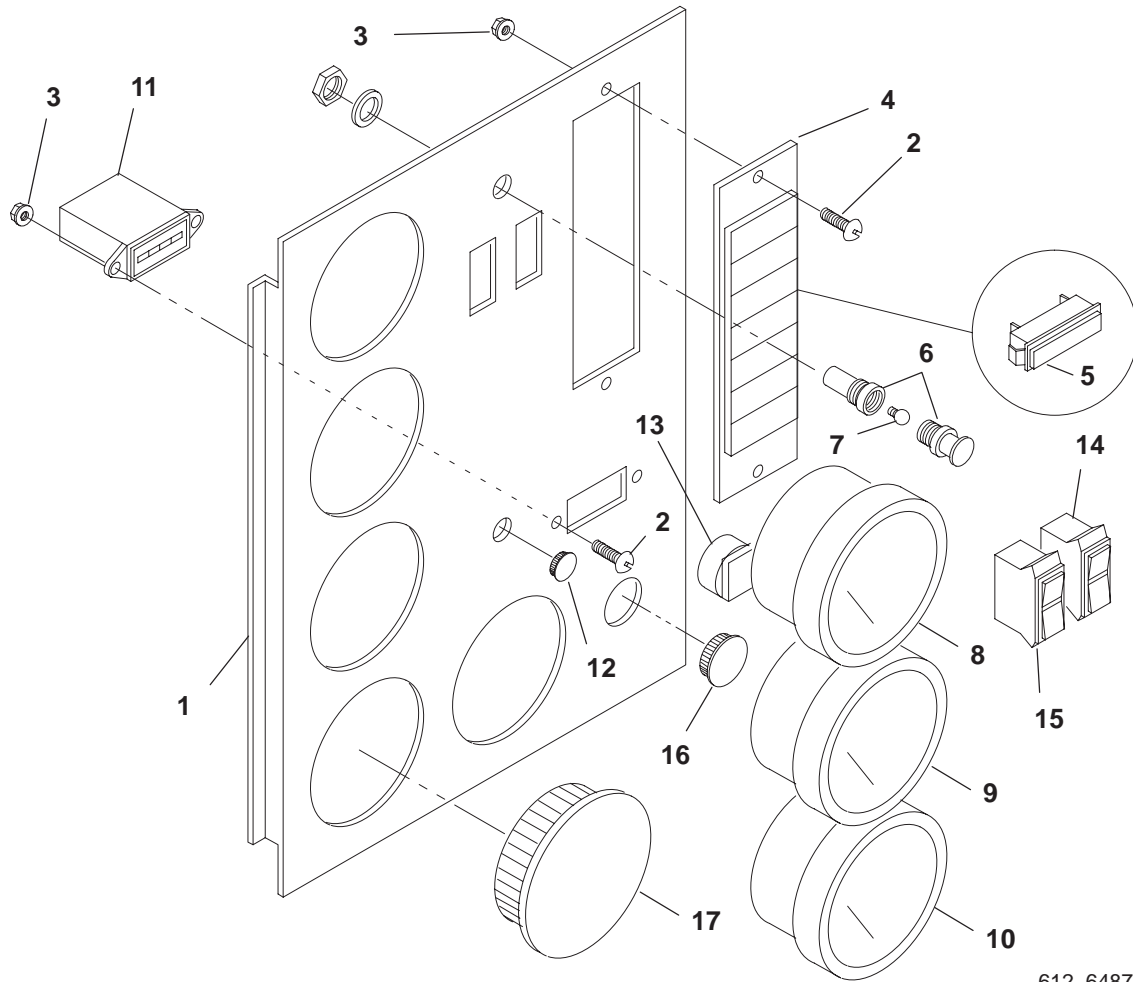
AC Control Door Assembly



612-6489

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9054-03	1	Door, Control – AC Without Meter Holes	5	302-1968	1	Meter, Frequency (M23)
	301-9054-01	1	With Four Meter Holes	6	308-1052	1	Switch, Rotary – Voltmeter/ Ammeter (S21)
	301-9054-04	1	With Six Meter Holes	7	355-0189	1	Capacitor – Voltmeter (.1 Mfd., 500 WVDC) (C21)
2	322-0363	1	Light, Indicator – Upper/ Lower Scale (DS21, DS22)	8	517-0302	1	Plug, Hole (Fits 2-1/4" Hole)
3			Voltmeter (M21)	9	815-0385	2	Screw, Machine – Round Head (#6-32 x 1/2")
	302-1148	1	Scale Reads 0-300/600	10	870-0183	2	Nut, Hex – W/ET (#6-32)
	302-1753	1	Scale Reads 0-750	11	815-0875-02	3	Screw, Machine – Pan Head – Cross Recessed (M4 x 8mm)
4			Ammeter (M22)				
	302-1147	1	Scale Reads 0-75/150				
	302-1683	1	Scale Reads 0-100/200				
	302-1684	1	Scale Reads 0-150/300				
	302-1725	1	Scale Reads 0-375/750				

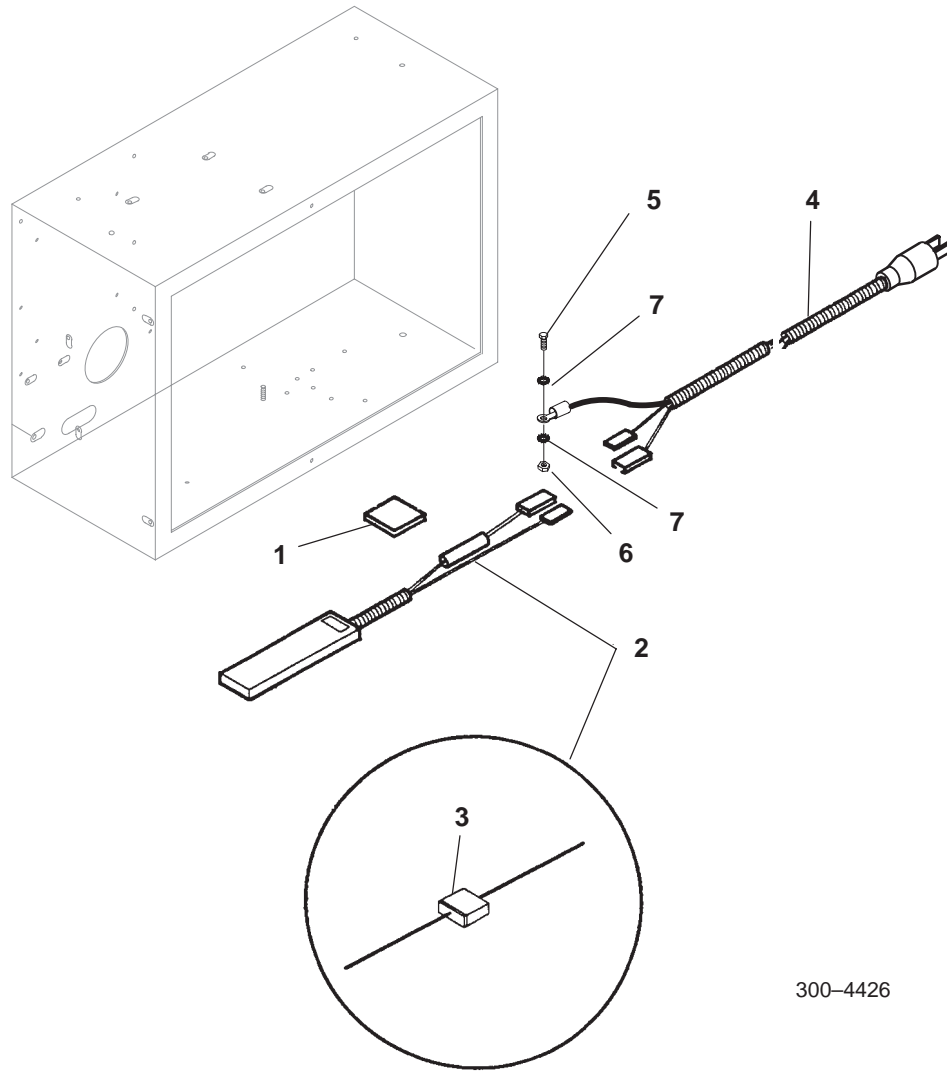
DC Control Door Assembly



612-6487

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9055-01	1	Door, Control – DC	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 – W/ET (#6-32)	12	517-0131	1	Plug, Hole (Fits 3/8" Hole)
4			Light Assembly, Indicator (Includes Wiring Harness and Connector Housing) (A12)	13	193-0250	2	Resistor (Mounted on Oil Pressure and Water Temperature Gauges) (R12, R13)
	322-0359-02	1	7 Light Assembly	14	308-1010	1	Switch, Rocker – Lamp Test/Reset Panel Lamp – Preheat (S11)
	322-0360-02	1	12 Light Assembly	15	308-1011	1	Switch, Rocker – Run/Stop/Remote (S12)
5	322-0369-02	1	Light, Indicator – Replacement	16	517-0137	1	Plug, Hole (Fits 7/8" Hole)
6	322-0361	1	Light, Panel (DS11)	17	517-0301	2	Plug, Hole (Fits 2" Hole)
7	322-0017	1	Bulb, Panel Light – Replacement				
8	193-0466	1	Gauge, Oil Pressure (M11)				
9	193-0351	1	Gauge, Water Temperature (M12)				

Control Heater

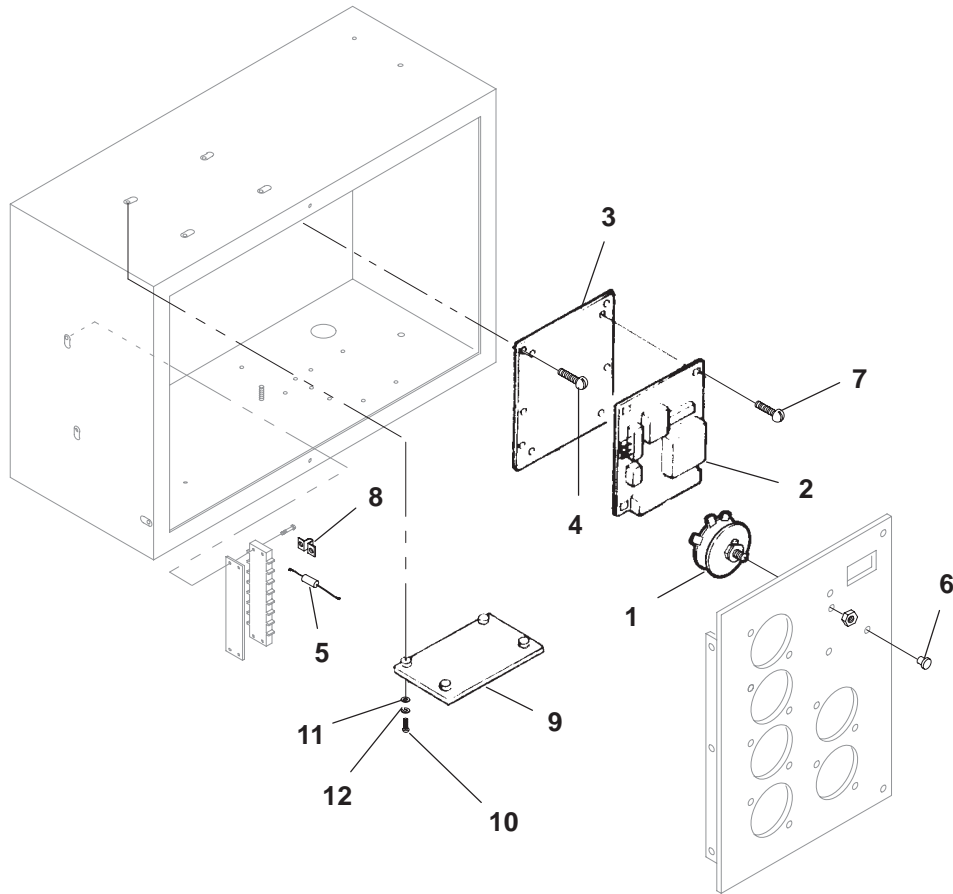


300-4426

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

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

Voltage Regulator



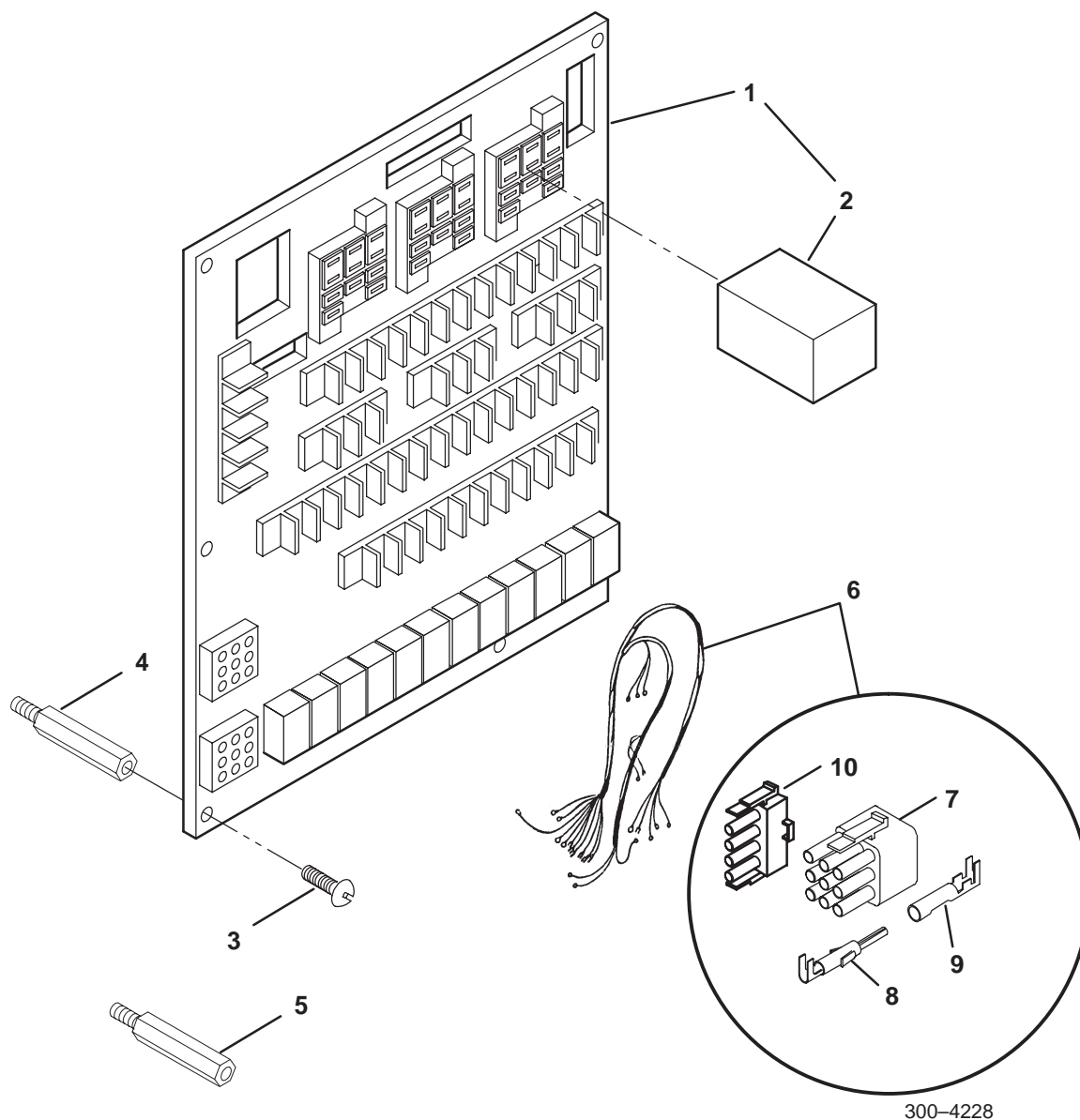
300-3606/7

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	303-0261	1	Potentiometer (R21)	6	517-0131	1	*#Plug, Hole (Fits 3/8" Hole)
	303-0285	1	* 1.5K Ohms (Used With Model SX440 Voltage Regulator)	7	812-0084	4	*#Screw, Machine – Round Head (#8-32 x 1")
			# 5K Ohms (Used With Model MX321 Voltage Regulator)	8	332-1043	1	*#Jumper (Used on TB21)
2			Board, Printed Circuit – Voltage Regulator (VR21)	9	305-0868	1	#Board, Printed Circuit – Isolation Transformer (T30)
	305-0824	1	* Model SX440	10	813-0108	4	#Screw, Machine – Round Head (#10-32 x 1-1/2")
	305-0823	1	# Model MX321	11	526-0008	4	#Washer, Flat (#10)
3	319-0652	1	#Plate, Mounting (Used With MX321 Voltage Regulator)	12	850-0030	4	#Washer, Lock – Spring (#10)
4	815-0544	6	#Screw, Machine – Round Head – Cross Recessed W/IT (#6-32 x 1/2") (Used With MX321 Voltage Regulator)				
5	350-1222	1	*#Resistor (1.5K Ohms) (Used on TB21)				

* – Parts Used on Generators Without Permanent Magnet Exciter

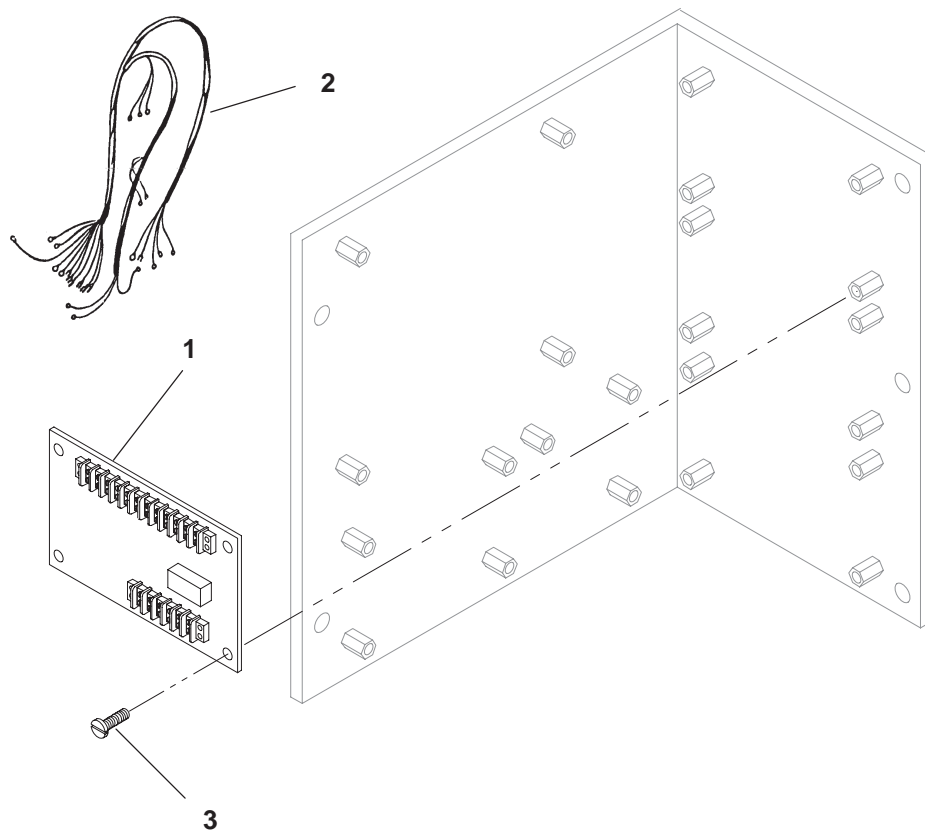
– Parts Used on Generators With Permanent Magnet Exciter

Alarm Relay Board



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Printed Circuit – Alarm Relay (Includes K1 Relay)	6	338-2875	1	Harness, Wiring (Includes Parts Marked *) (A11-TB1 and TB2 to Alarm Relay Board)
	300-4111-02	1	Without Form C Relays	7	323-1291	2	*Plug – 9 Place (P1,P2)
	300-4111-04	1	With Form C Relays	8	323-1199	9	*Pin, Contact
2	307-1056	1	Relay (Quantity Used as Required) (K1,K2,K3)	9	323-1200	12	*Socket, Contact
3	815-0544	6	Screw, Machine – Round Head – Cross Recessed W/IT (#6-32 x 1/2")	10	323-1292	1	*Plug – 4 Place (P3)
4	870-0517-01	4	Standoff (Clear) (1-7/8")	* – Parts Included in 338-2875 Wiring Harness			
5	870-0517-02	2	Standoff (Yellow) (2")				

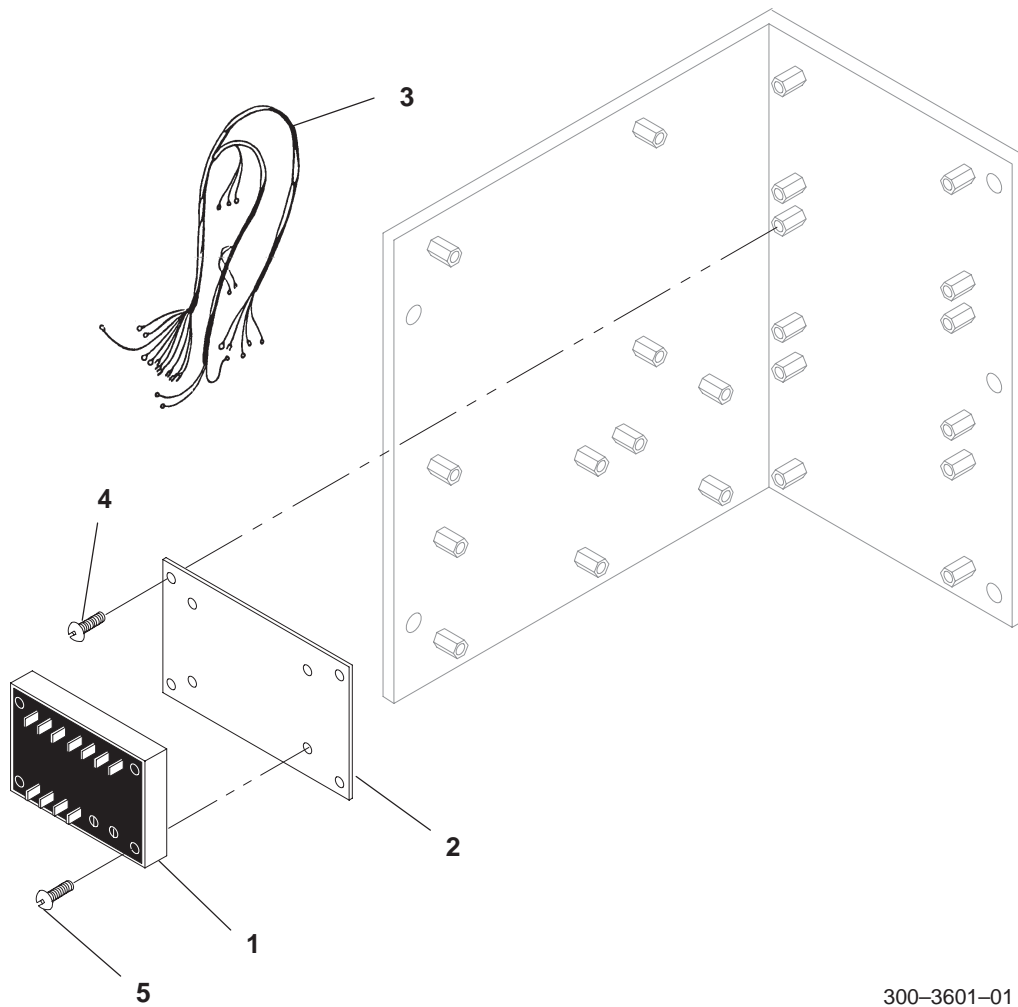
Common Alarm



300-4394-02

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

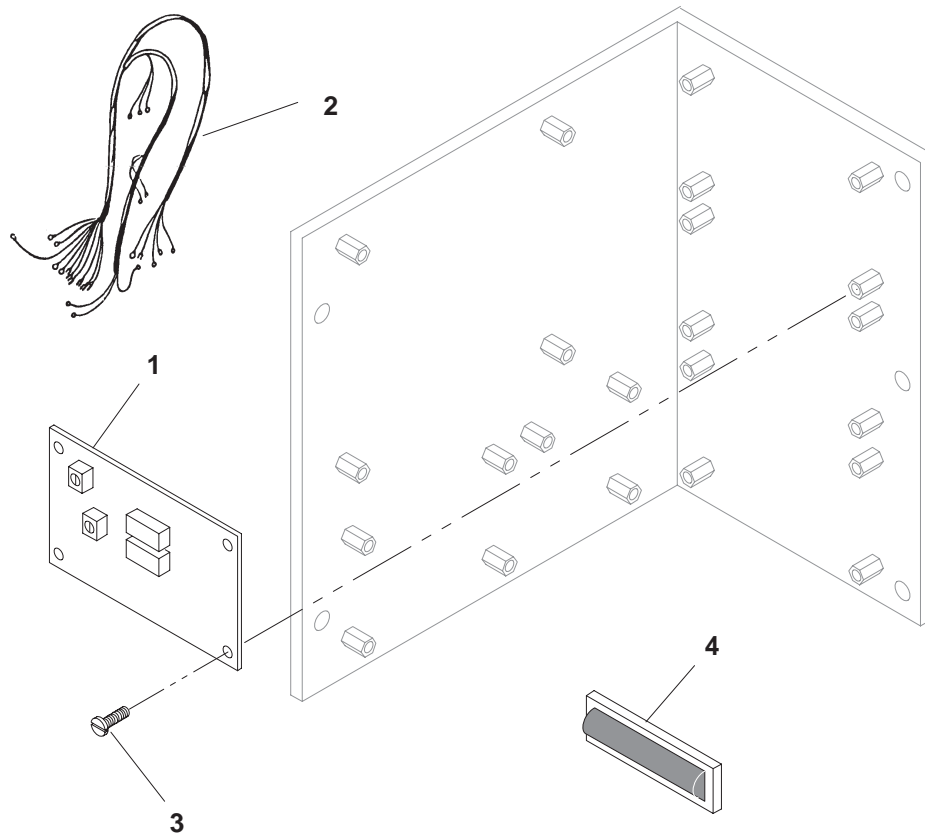
Electronic Overspeed



300-3601-01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305-0902-02	1	Board, Printed Circuit – Electronic Overspeed (A16)	4	815-0544	4	Screw, Machine – Round Head – Cross Recessed W/IT (#6-32 x 1/2")
2	319-0754	1	Plate, Mounting	5	812-0082	4	Screw, Machine – Round Head (#8-32 x 3/4")
3	338-2493	1	Harness, Wiring (A16 to A11, AUX) (5 Wire) (44")				

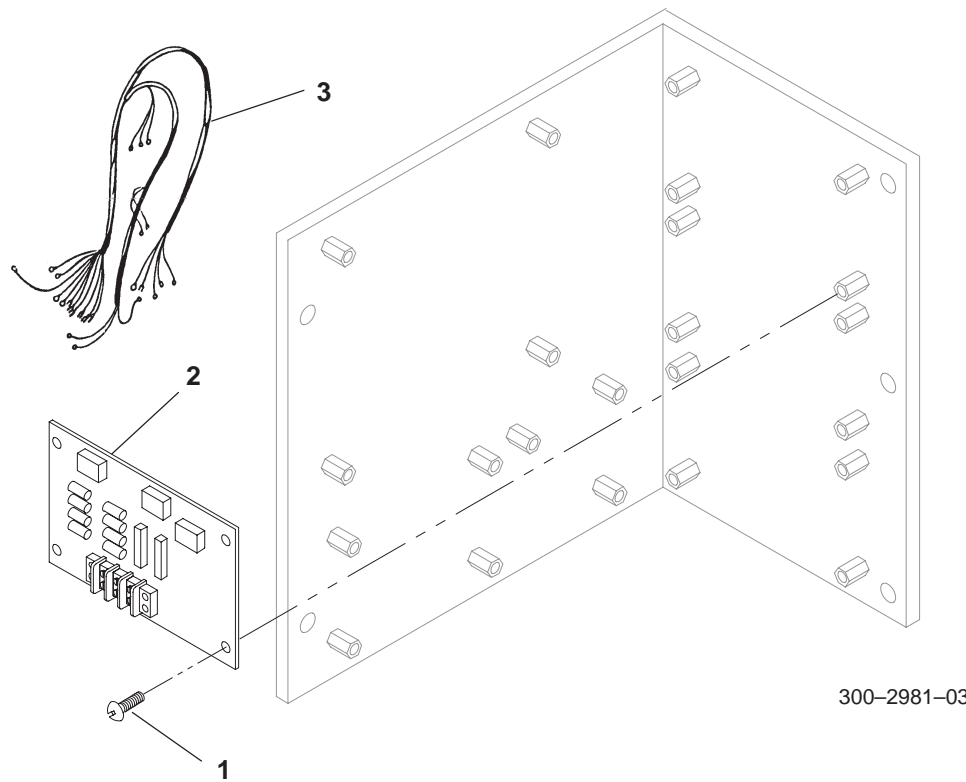
Over/Under Voltage Relay



300-4697-01

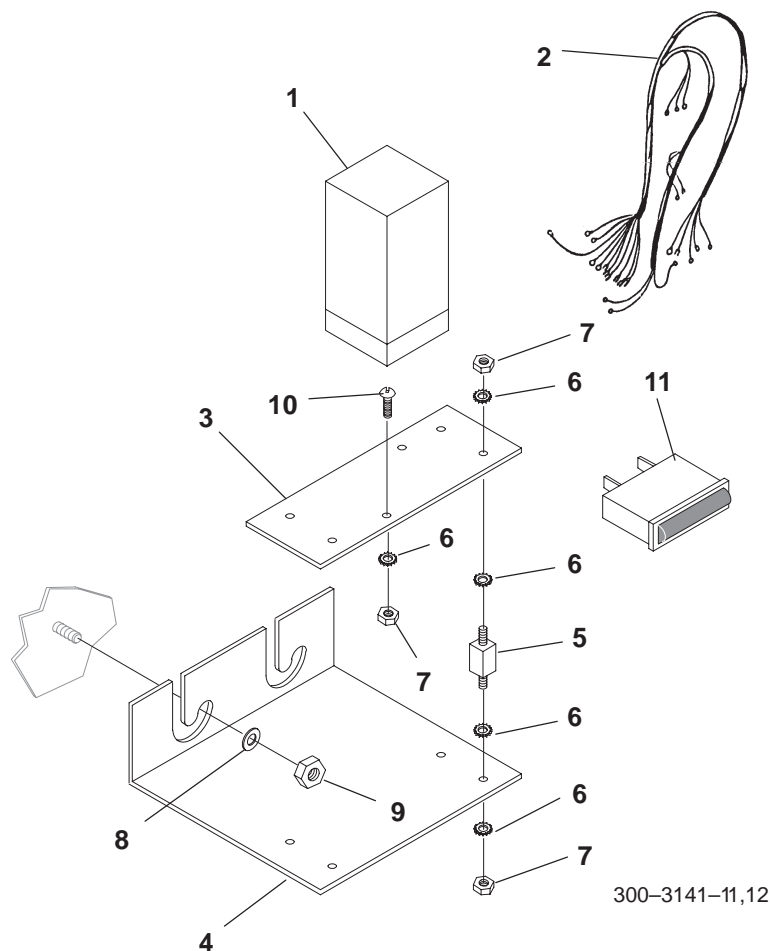
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2868	1	Board, Printed Circuit – Over/Under Voltage Relay (A17)	4	322-0463-03	1	Lens, Indicator Light (Marked "O/U VOLT")
2	338-3366	1	Harness, Wiring (6 Wire) (30")				
3	815-0550	4	Screw, Machine – Pan Head – Cross Recessed W/ET (#6-32 x 3/8")				

Time Delay Start/Stop



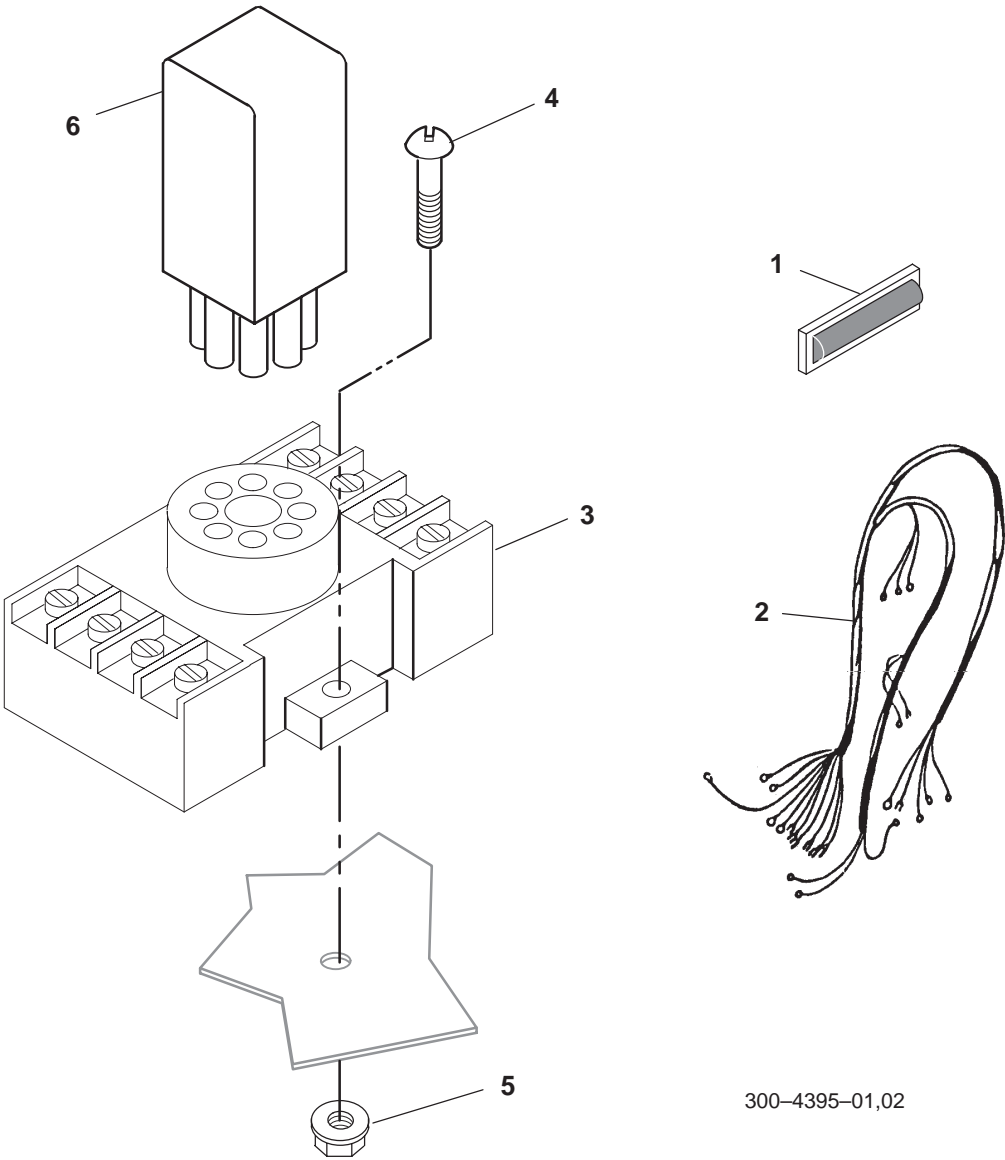
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0544	4	Screw, Machine – Round Head – Cross Recessed W/IT (#6-32 x 1/2")	3	338-1904	1	Harness, Wiring (5 Wire) (21-1/2")
2	300-2899	1	Board, Printed Circuit – Time Delay (A15)				

Over/Under Frequency Relay



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2553	1	Relay (A19)	6	856-0002	18	Washer, Lock – W/EIT (#8)
	307-2709	1	50 Hertz	7	860-0008	10	Nut, Hex (#8–32)
			60 Hertz	8	526-0115	2	Washer, Flat (5/16")
2	338-2347	1	Harness, Wiring (TB21, A11, GRD to A19)	9	870-0048	2	Nut, Hex – Locking (5/16–18)
3	301-9941	1	Plate, Mounting	10	812-0082	2	Screw, Machine – Round Head (#8–32 x 3/4")
4	301-6987	1	Bracket, Mounting	11	322-0463-04	1	Light, Indicator (Marked "O/U HZ") (DS20)
5	402-0354	4	Mount, Shock				

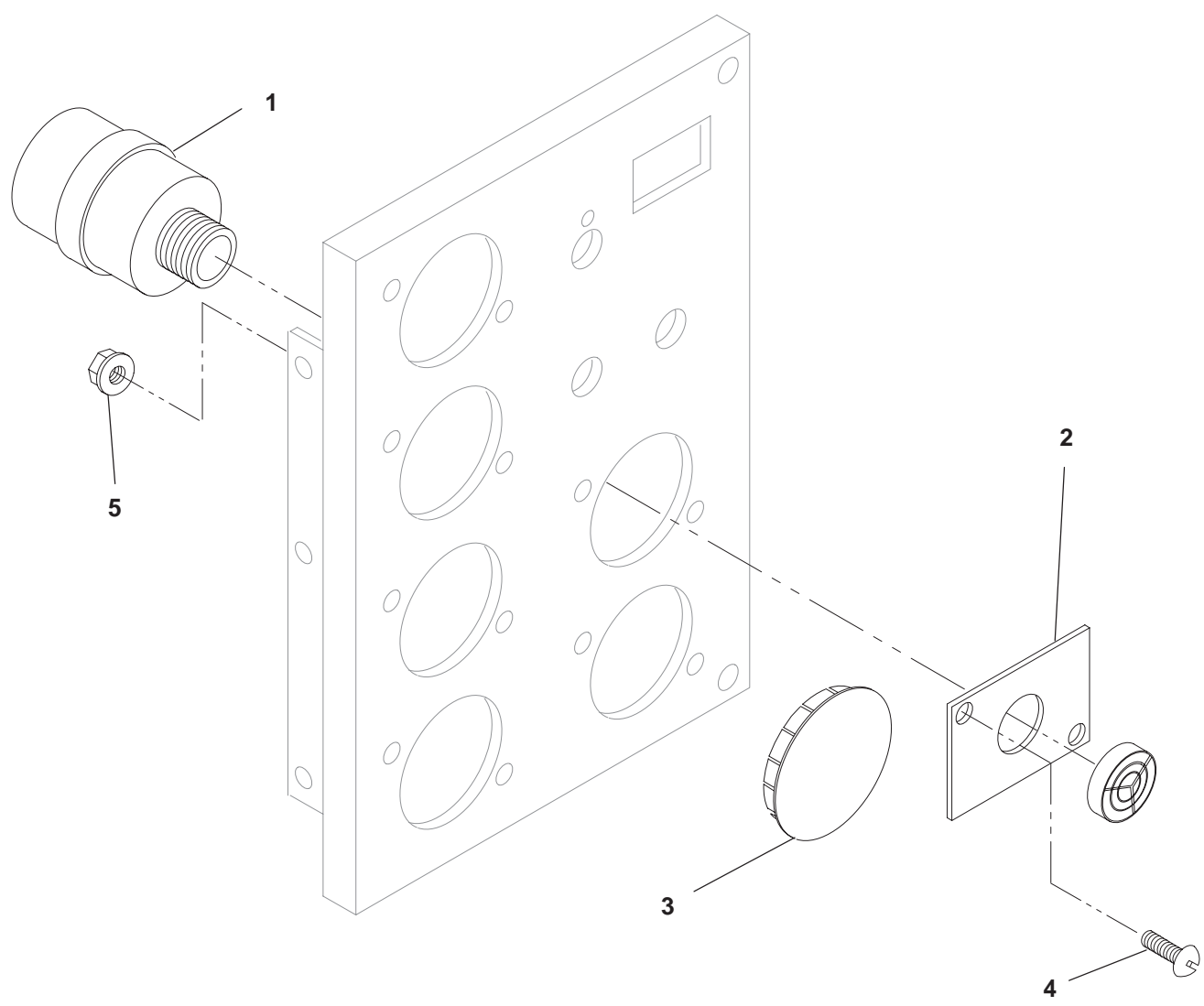
Low Battery Voltage



300-4395-01,02

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	322-0463-08	1	Lens, Indicator Light (Marked "Lo Battery")	5	870-1221	2	*Nut, Hex – W/ET (#8-32)
2	338-3034	1	*Harness, Wiring (4 Wire) (36") (K15 to A11)	6	305-0901	1	*Sensor – Low Battery Voltage (K15)
3	323-1410-03	1	*Base, Relay	* – Not Used on All Models			
4	812-0084	2	*Screw, Machine – Round Head (#8-32 x 1")				

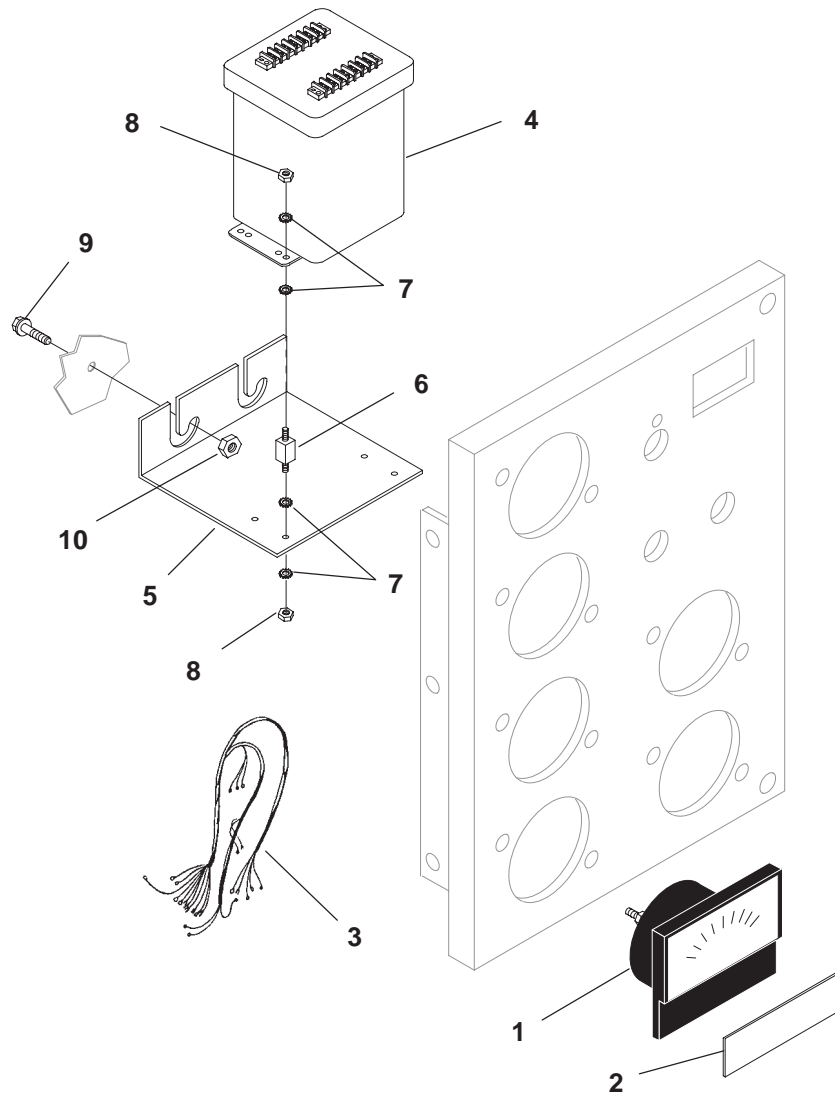
Audible Alarm



300-3729

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0133	1	Alarm, Audible (DS2)	4	815-0385	2	Screw, Machine – Round Head (#6-32 x 1/2")
2	319-0898	1	Plate, Mounting	5	870-0183	2	Nut, Hex – W/ET (#6-32)
3	517-0302	1	Plug, Hole				

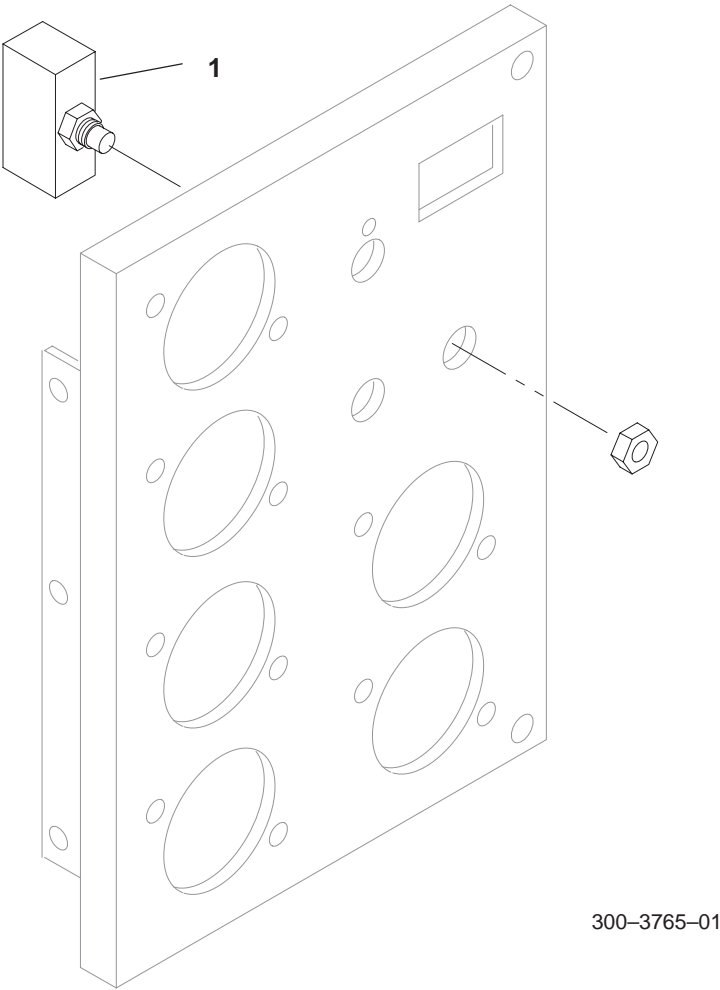
Wattmeter



300-4736

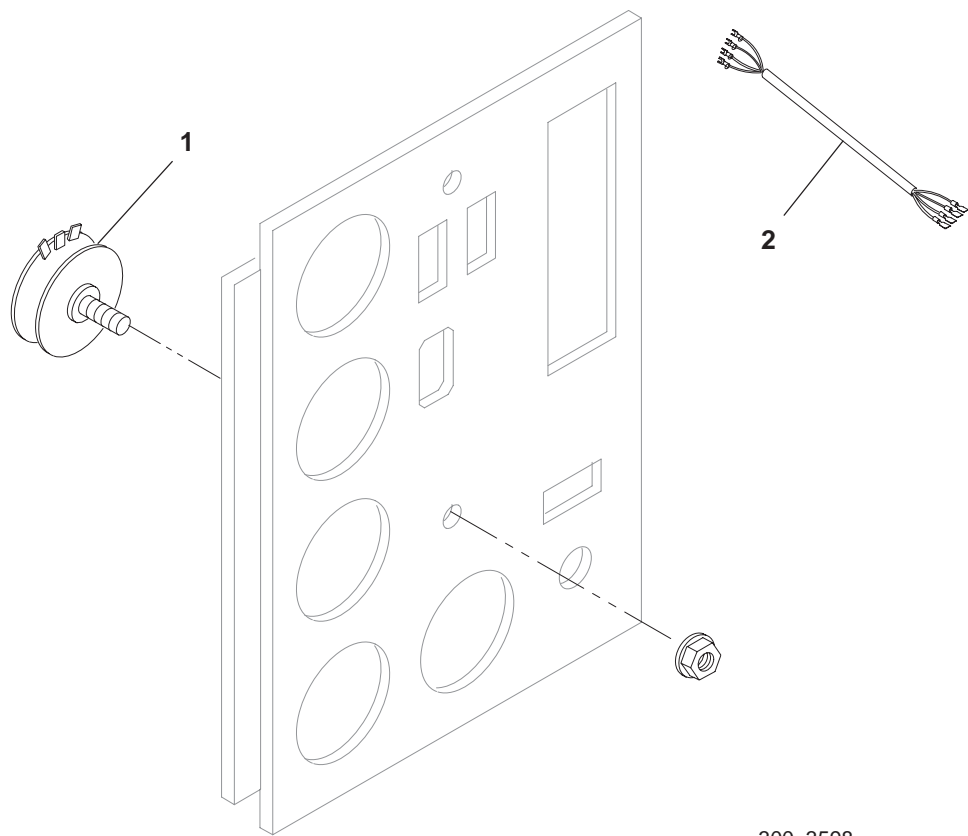
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1722	1	Wattmeter (Dial Not Included) (M24)	4	302-1982-09	1	Transducer, Watts (A21)
2			Dial, Wattmeter		302-1982-10	1	2 Element Watt, Single Phase, 120/240 Volt
	302-1721-01	1	0-35 kW Rating		302-1982-11	1	3 Element Watt, Three Phase, Reconnectable WYE
	302-1721-02	1	0-50 kW Rating				3 Element Watt, Three Phase, 120/240 Volt DELTA
	302-1721-03	1	0-70 kW Rating	5	301-6987	1	Bracket, Mounting
	302-1721-04	1	0-90 kW Rating	6	402-0354	4	Mount, Shock
	302-1721-05	1	0-115 kW Rating	7	856-0002	16	Washer, Lock - W/ET (#8)
3			Harness, Wiring	8	860-0008	8	Nut, Hex (#8-32)
	338-3310	1	Single Phase, 120/240 Volt	9	821-0017	2	Screw, Self-Locking - Hex Washer Head (5/16-18 x 1/2")
	338-3309	1	Three Phase, 120/240 Volt DELTA and Reconnectable WYE	10	870-0257	2	Nut, Locking - Hex (5/16-18)

**Circuit Breaker
AC Control Door**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	320-1688-01	1	Breaker, Circuit (CB21)				

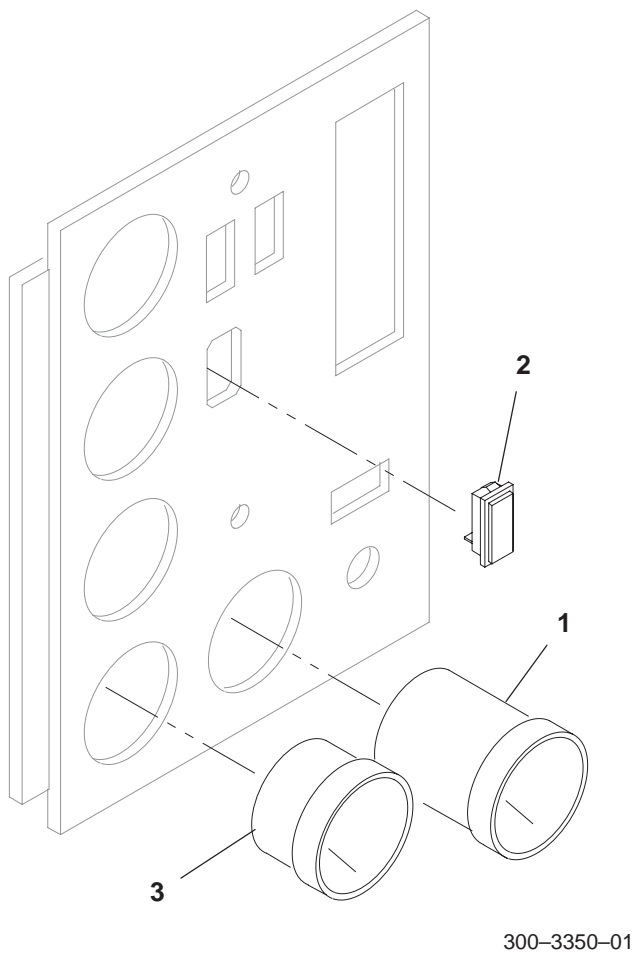
Potentiometer
Speed Adjust



300-3598

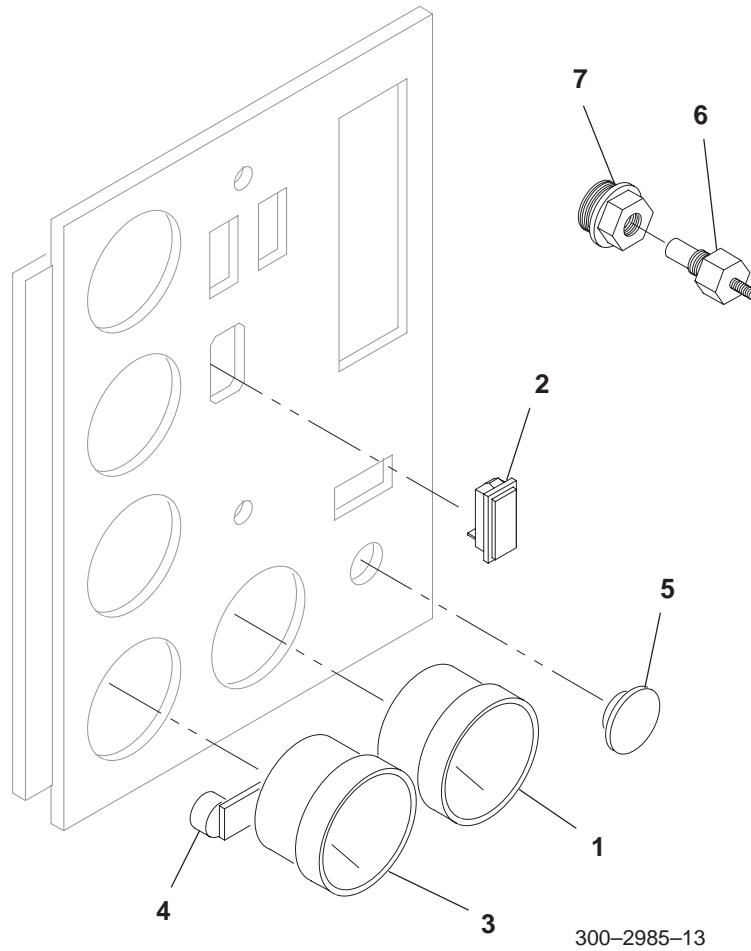
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	151-0402	1	Potentiometer, Speed Adjusting	2	334-0116	1	Cable, Shielded (6-1/2')

Tachometer



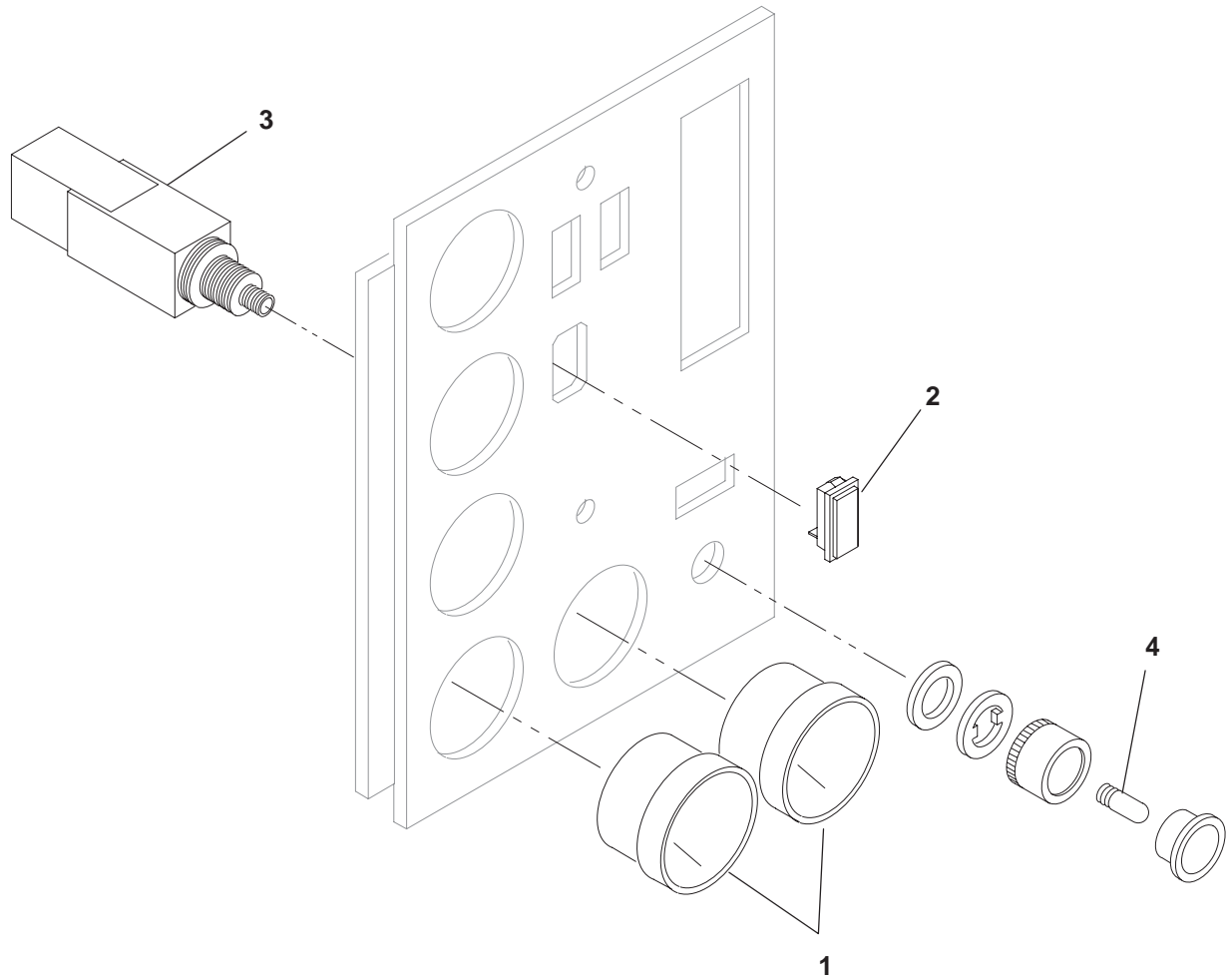
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1873-01	1	Tachometer (0-4000 RPM) (M16)	2	301-6257	1	Switch – Blank
				3	302-1723	1	Ammeter – Blank Scale

Oil Temperature Gauge



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1723	1	Ammeter – Blank Scale	5	517-0137	1	Plug, Hole
2	301-6257	1	Switch – Blank	6	193-0388	1	Sender, Oil Temperature (E4)
3	193-0435	1	Gauge, Oil Temperature (M15)	7	505-1373	1	Bushing, Reducer
4	193-0250	1	Resistor (R13)				

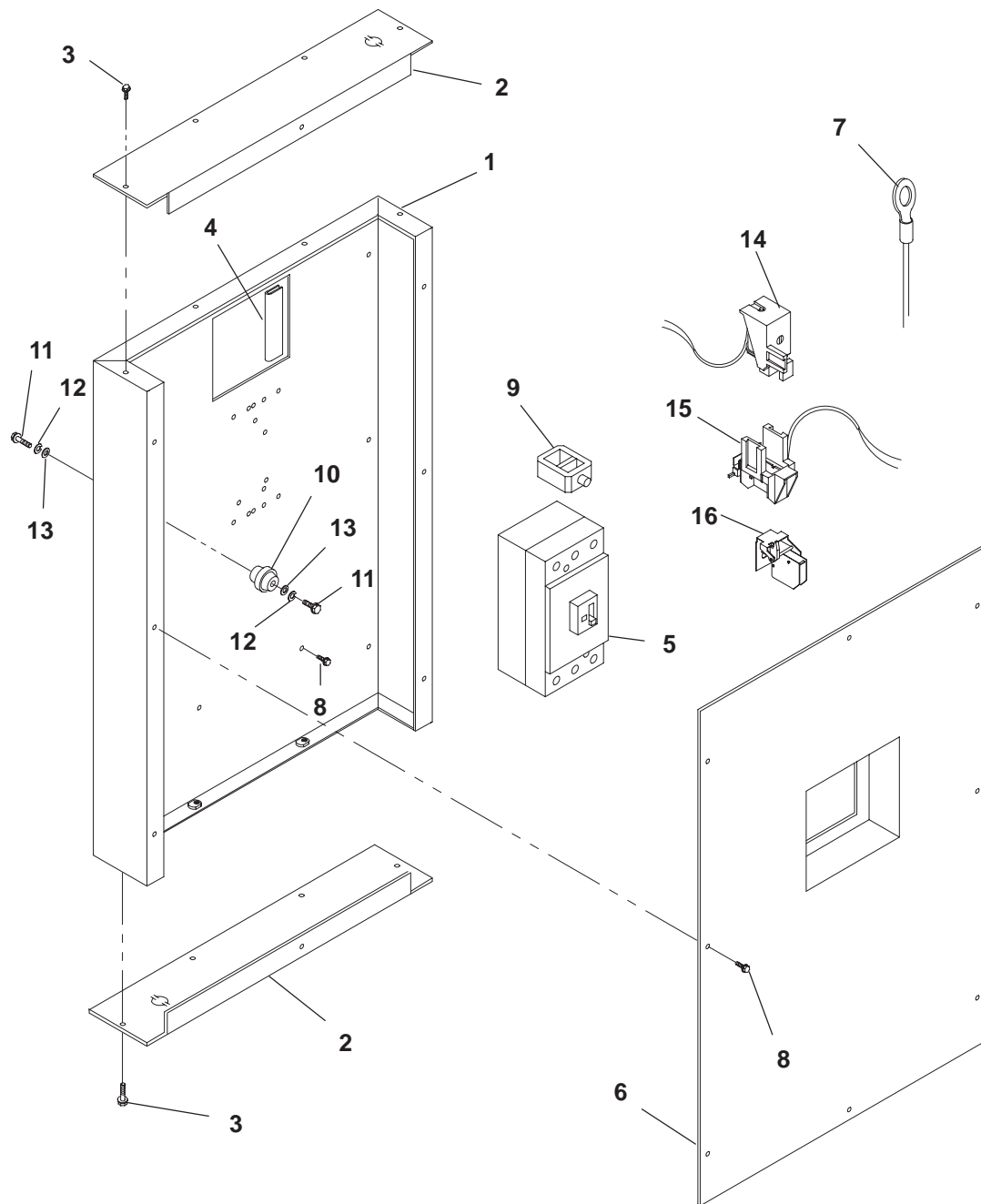
Emergency Stop Switch



300-3127

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

Circuit Breaker Non-UL Approved



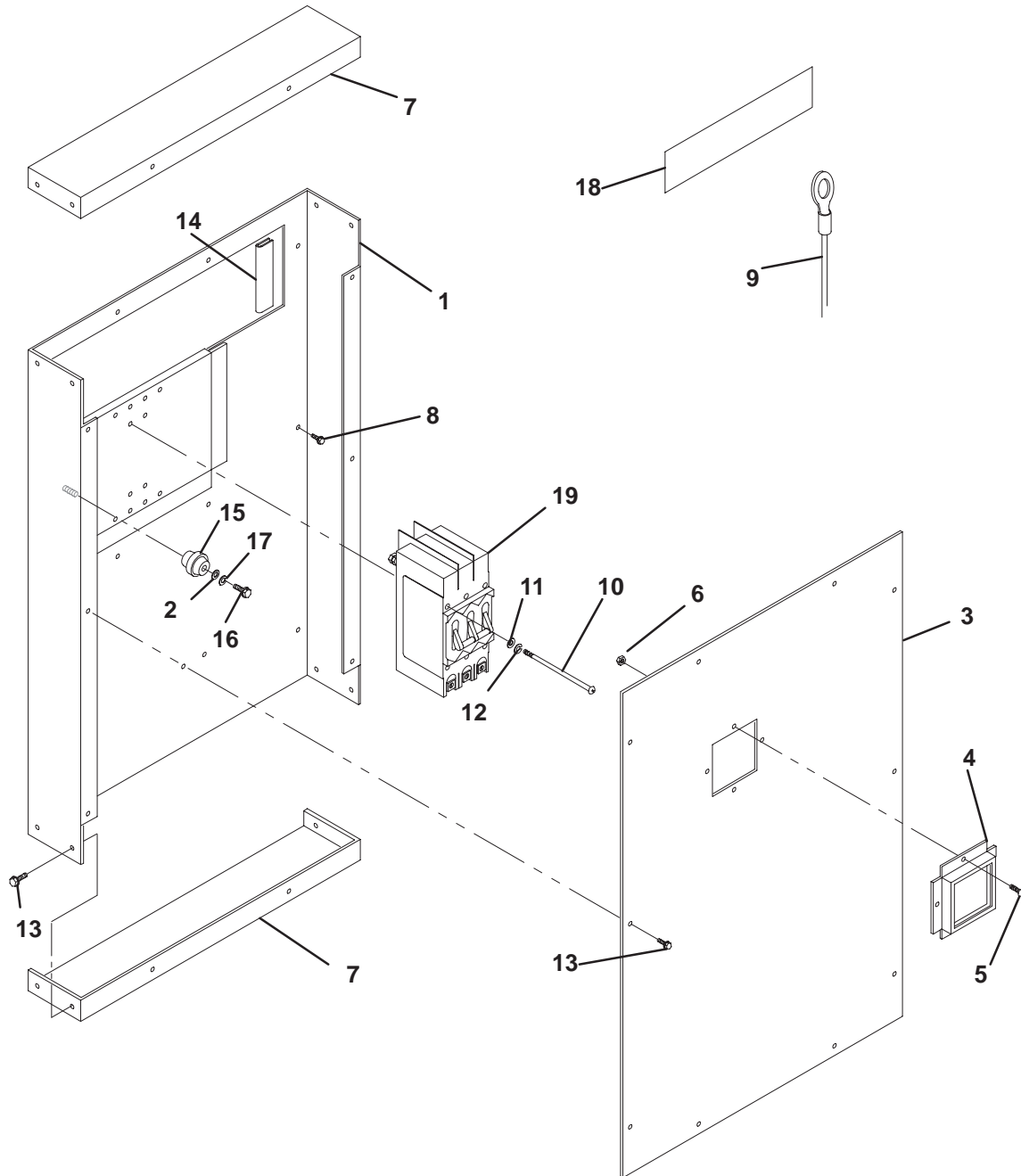
625-2431

Circuit Breaker Non-UL Approved

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1332	1	Box, Mounting – Circuit Breaker	8	821-0010	13	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
2	319-1333	2	Panel, Box	9			Lug Set – Circuit Breaker (Packaged in Sets – Two Lugs Per Set) (Quantity Used As Required)
3	821-5002-03	8	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")				100, 125, 160 Amp Breakers
4	508-0239	–	Edging – Bulk (Order By The Foot – 2 Feet Required)		320-1755-11	1	200, 250 Amp Breakers
5			Breaker, Circuit (Includes Mounting Screws) (Circuit Breaker Lugs Not Included Except As Noted) (CB21)	10	332-2744-07	1	*Standoff, Insulator
			Three Pole Breakers	11	800-0048	2	*Screw, Cap – Hex Head (3/8-16 x 3/4")
	320-1724-01	1	80 Amp (Includes Lugs)	12	850-0050	2	*Washer, Lock – Spring (3/8")
	320-1725-04	1	100 Amp	13	526-0029	2	*Washer, Flat (25/64" ID)
	320-1725-05	1	125 Amp	14	320-1749-02	1	Trip, Shunt (160-250 Amp Breakers)
	320-1725-06	1	160 Amp	15	320-1748-02	1	Alarm, Bell (160-250 Amp Breakers)
	320-1726-06	1	200 Amp	16	320-1747-03	1	Contact, Auxiliary (160-250 Amp Breakers)
	320-1726-07	1	250 Amp				
			Four Pole Breakers				
	320-1724-04	1	80 Amp (Includes Lugs)				
	320-1725-10	1	100 Amp				
	320-1725-11	1	125 Amp				
	320-1725-12	1	160 Amp				
	320-1726-13	1	200 Amp				
	320-1726-14	1	250 Amp				
6			Cover, Box				
	319-2049	1	80 Amp Breakers				
	319-1335	1	100, 125, 160, 200, 250 Amp Breakers				
7			Lead – Circuit Breaker (Quantity Used As Required)				
			No Markings				
	226-3649	1	28" (No. 2 Wire)				
	226-3505-01	1	30" (No. 4 Wire)				
	226-0893	1	33" (No. 1/0 Wire)				
			Marked "LO"				
			3 Pole Breakers				
	226-3505-03	1	30" (No. 4 Wire)				
	226-3505-04	1	30" (No. 1/0 Wire)				
			4 Pole Breakers				
	226-3505-02	1	30" (No. 4 Wire)				
	226-1587	1	33" (No. 1/0 Wire)				

* – Parts Used for Three Pole Circuit Breaker Application

Circuit Breaker
UL Approved



625-3022

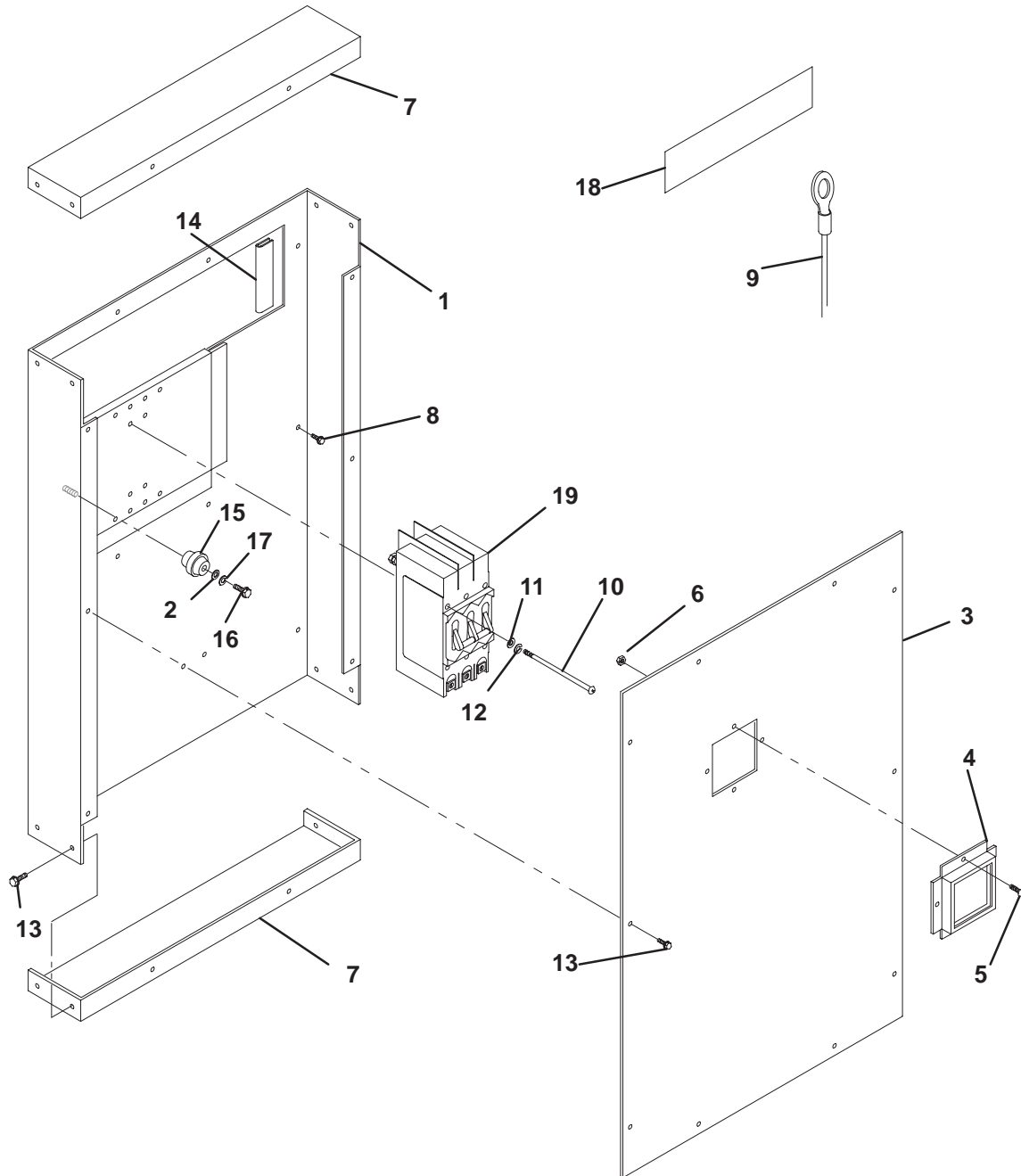
Circuit Breaker UL Approved

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2422	1	Box, Mounting – Circuit Breaker	19			Breaker, Circuit (Includes Lugs) (CB21)
2	526-0029	1	Washer, Flat (3/8")				Two Pole Breakers
3	319-2425	1	Cover, Box				Standard
4			Cutout, Cover				
	301-9650	1	With 1-1/4" Wide x 3" High x 1-1/2" Deep Opening	320-1555-03	1		175 Amp
	319-0284	1	With 1-1/4" Wide x 3" High x 2-1/8" Deep Opening	320-1555-04	1		200 Amp
				320-1555-05	1		225 Amp
	301-9891	1	With 2-7/8" Wide x 3-5/8" High x 5/8" Deep Opening	320-1555-11	1		250 Amp
				320-1555-12	1		300 Amp
				320-1555-13	1		350 Amp
5	813-0100	4	Screw, Machine – Round Head (#10-32 x 1/2")	320-1513-10	1	*	450 Amp
				320-1513-11	1	*	500 Amp
6	870-0131	4	Nut, Hex – W/ET (#10-32)				With Auxiliary Contacts
7	319-2426	2	Cover, Box	320-1556-03	1		175 Amp
8	821-5000-05	8	Screw, Self-Locking – Hex Washer Head (#10-32 x 1/2")	320-1556-04	1		200 Amp
				320-1556-05	1		225 Amp
9			Lead – Circuit Breaker (Quantity Used As Required)	320-1556-11	1		250 Amp
	226-3649	1	28" (#2 Wire)	320-1556-12	1		300 Amp
	226-3505-01	1	30" (#4 Wire)	320-1556-13	1		350 Amp
	226-0893	1	33" (#1 Wire)	320-1516-10	1	*	450 Amp
				320-1516-11	1	*	500 Amp
10			Screw, Machine – Round Head				With 24 Volt Shunt Trip
	812-0092	4	#8-32 x 2-3/4"	320-1521-08	1		175 Amp
	812-0093	4	#8-32 x 3"	320-1521-09	1		200 Amp
	813-0190	4	#10-32 x 4"	320-1521-10	1		225 Amp
	812-0157	4	1/4-20 x 1-3/4"	320-1522-06	1		250 Amp
11			Washer, Flat	320-1522-07	1		300 Amp
	526-0048	4	#8	320-1557-61	1		350 Amp
	526-0008	4	#10				With Auxiliary Contacts and 24 Volt Shunt Trip
12			Washer, Lock				
	850-0025	4	#8 – Spring	320-1536-08	1		175 Amp
	850-0030	4	#10 – Spring	320-1536-09	1		200 Amp
	854-0014	4	1/4" – W/IT	320-1536-10	1		225 Amp
13	821-5002-03	20	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")				
14	508-0239	–	Edging – Bulk (Order By The Foot – 2 Feet Required)				
15	332-2744-07	1	Standoff, Insulator				
16	800-0047	1	Screw, Cap – Hex Head (3/8-16 x 5/8")				
17	850-0050	1	Washer, Lock – Spring (3/8")				
18	091-0002	1	Strip, Copper (Used for wrapping ends of leads before securing to circuit breakers) (Quantity Used As Required)				

* – Circuit Breakers With Interchangeable Trip

Continued...(Reference Number 19...Three Pole Breakers)

Circuit Breaker
UL Approved



625-3022

Circuit Breaker UL Approved

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...(Reference Number 19...Three Pole Breakers)							
19			Breaker, Circuit (Includes Lugs) (CB21)				100 Amp
			Three Pole Breakers	320-1462-28	1		480 Volt
			Standard	320-1462-45	1		600 Volt
	320-1458-40	1	50 Amp	320-1556-06	1		125 Amp
			60 Amp	320-1462-30	1		240 Volt
	320-1458-24	1	480 Volt				480 Volt
	320-1458-41	1	600 Volt	320-1556-07	1		150 Amp
			70 Amp	320-1462-31	1		240 Volt
	320-1458-25	1	480 Volt	320-1462-48	1		480 Volt
	320-1458-42	1	600 Volt				600 Volt
			80 Amp	320-1556-08	1		175 Amp
	320-1458-26	1	480 Volt	320-1463-08	1		240 Volt
	320-1458-43	1	600 Volt	320-1556-09	1		600 Volt
			90 Amp				200 Amp
	320-1458-27	1	480 Volt	320-1556-10	1		225 Amp
	320-1458-44	1	600 Volt	320-1463-10	1		240 Volt
			100 Amp	320-1556-15	1		600 Volt
	320-1458-28	1	480 Volt	320-1556-16	1		250 Amp
	320-1458-45	1	600 Volt				300 Amp
			125 Amp	320-1470-24	1		With 24 Volt Shunt Trip
	320-1555-06	1	240 Volt	320-1470-25	1		60 Amp
	320-1458-30	1	480 Volt				70 Amp
			150 Amp				80 Amp
	320-1555-07	1	240 Volt	320-1470-26	1		480 Volt
	320-1458-31	1	480 Volt	320-1470-43	1		600 Volt
	320-1458-48	1	600 Volt	320-1470-27	1		90 Amp
			175 Amp	320-1470-28	1		100 Amp
	320-1555-08	1	240 Volt	320-1470-30	1		125 Amp
	320-1459-08	1	600 Volt				150 Amp
			200 Amp	320-1557-17	1		240 Volt
	320-1555-09	1	240 Volt	320-1470-31	1		480 Volt
	320-1459-09	1	600 Volt	320-1471-08	1		175 Amp
			225 Amp				200 Amp
	320-1555-10	1	240 Volt	320-1557-19	1		240 Volt
	320-1459-10	1	600 Volt	320-1471-09	1		600 Volt
	320-1555-15	1	250 Amp				With Auxiliary Contacts and 24 Volt Shunt Trip
	320-1555-16	1	300 Amp	320-1490-24	1		60 Amp
			With Auxiliary Contacts	320-1490-25	1		70 Amp
	320-1462-40	1	50 Amp	320-1490-26	1		80 Amp
			60 Amp	320-1490-27	1		90 Amp
	320-1462-24	1	480 Volt	320-1490-28	1		100 Amp
	320-1462-41	1	600 Volt	320-1490-30	1		125 Amp
			70 Amp	320-1490-31	1		150 Amp
	320-1462-25	1	480 Volt	320-1491-08	1		175 Amp
	320-1462-42	1	600 Volt	320-1491-09	1		200 Amp
			80 Amp	320-1491-10	1		225 Amp
	320-1462-26	1	480 Volt				
	320-1462-43	1	600 Volt				
			90 Amp				
	320-1462-27	1	480 Volt				
	320-1462-44	1	600 Volt				

* – Circuit Breakers With Interchangeable Trip

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