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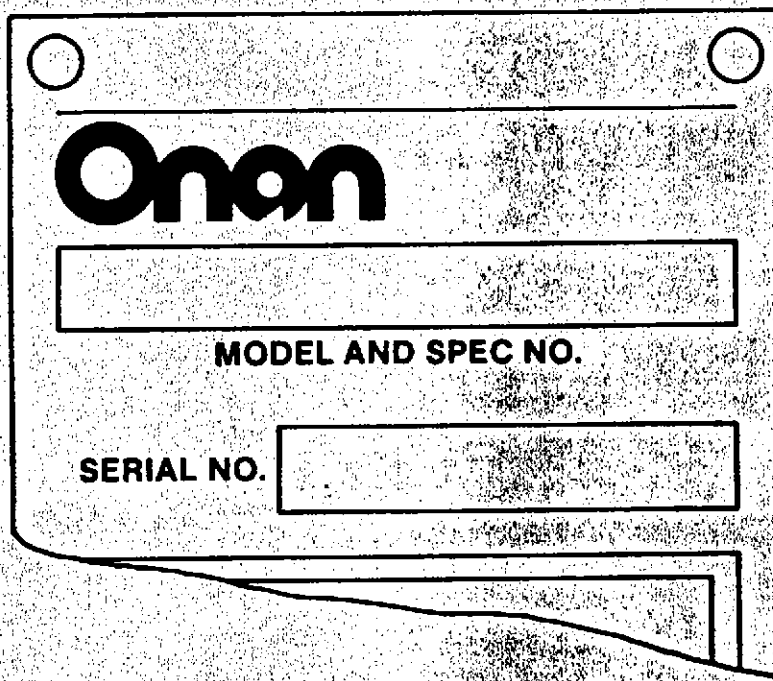
Parts Manual

**DB Series
DC Series
DM Series
440 - 600 kW
GEN SETS**

General Information

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

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

A rectangular nameplate template with rounded corners and two circular mounting holes at the top. The Onan logo is at the top left. Below it is a large rectangular box for the model and specification number. Below that is a smaller rectangular box for the serial number, preceded by the text "SERIAL NO.". The bottom right corner of the plate is cut off diagonally.

Onan

MODEL AND SPEC NO.

SERIAL NO.

M-1149

For handy reference, insert "YOUR" nameplate information in the spaces above.

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Introduction

This Parts Manual applies to the Standard Gen Sets Listed below. The illustrations are arranged in groups of related items, and each part or assembly is identified by a Reference Number. All parts illustrated are typical, and unless otherwise mentioned in the description column the parts are interchangeable between models.

These typical illustrations are subject to change and reflect only the latest replacement parts arrangement. The Right and Left sides of the Set are determined by FACING the FRONT (Engine end) of the Set.

Set Data Table

MODEL IDENTIFICATION	RATING	RPM RATING	BATTERY VOLTAGE
440.0D_GA - */ # @	440,000 WATTS	1500 RPM	24 VDC
500.0D_GA - */ # @	500,000 WATTS	1800 RPM	24 VDC
550.0D_GC - */ # @	550,000 WATTS	1500 RPM	24 VDC
600.0D_GB - */ # @	600,000 WATTS	1800 RPM	24 VDC

* - Voltage Codes follow Model Letter designations.

- Specification Number: Number 1 is Standard, all others indicate variations.

@ - Specification Letter: Letter advances (A to B, B to C, etc) with major manufacturing changes.

Electrical Data Table

*VOLTAGE CODE	VOLTS	HERTZ	WIRE	PHASE	NOTES
H	347/600	60	4	3	
L	120/208	60	12	3	+
	127/220	60	12	3	
	139/240	60	12	3	
	240/416	60	12	3	
	254/440	60	12	3	
	277/480	60	12	3	
Z	110/190	50	12	3	+
	115/200	50	12	3	
	120/208	50	12	3	
	127/220	50	12	3	
	220/380	50	12	3	
	230/400	50	12	3	
	240/416	50	12	3	
	254/440	50	12	3	

+ - The Stators are Reconnectible.

Engine Replacement Parts

The External Engine Components added or modified during the Generator Set Assembly have been identified in this Parts Manual. For Internal Engine Parts and External Engine Accessories not covered herein; refer to the applicable Cummins Engine Parts Catalog.

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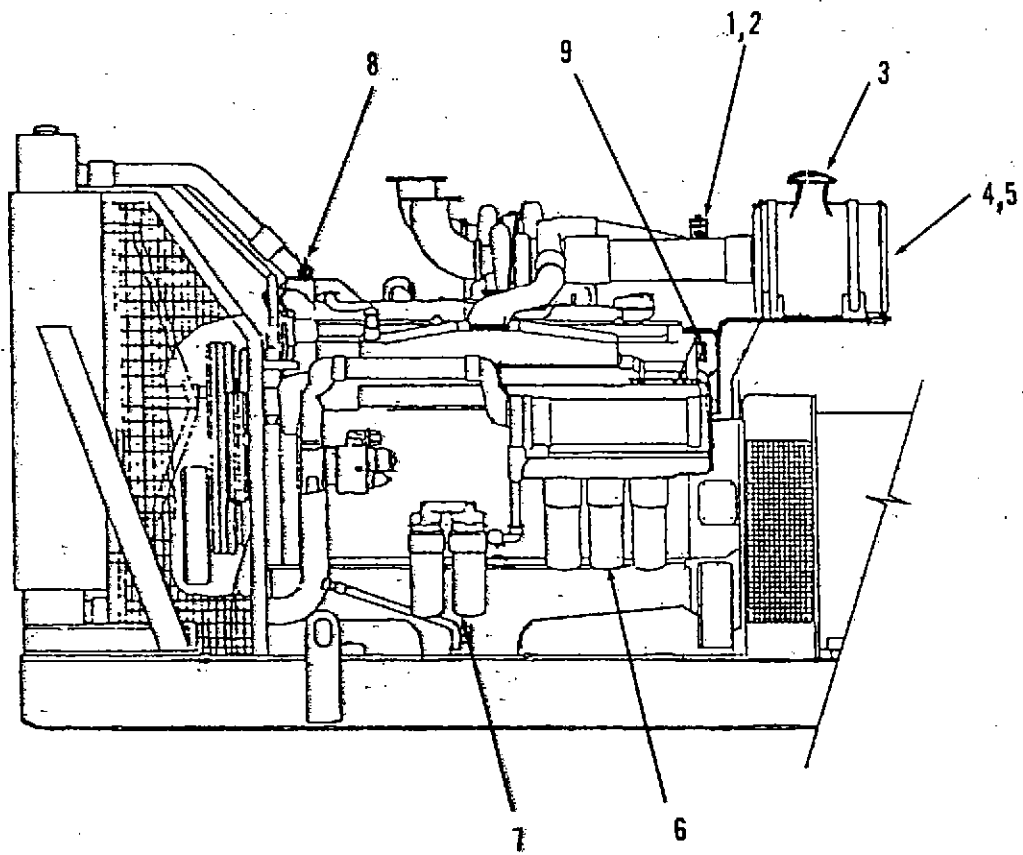
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External Engine Components Right Side



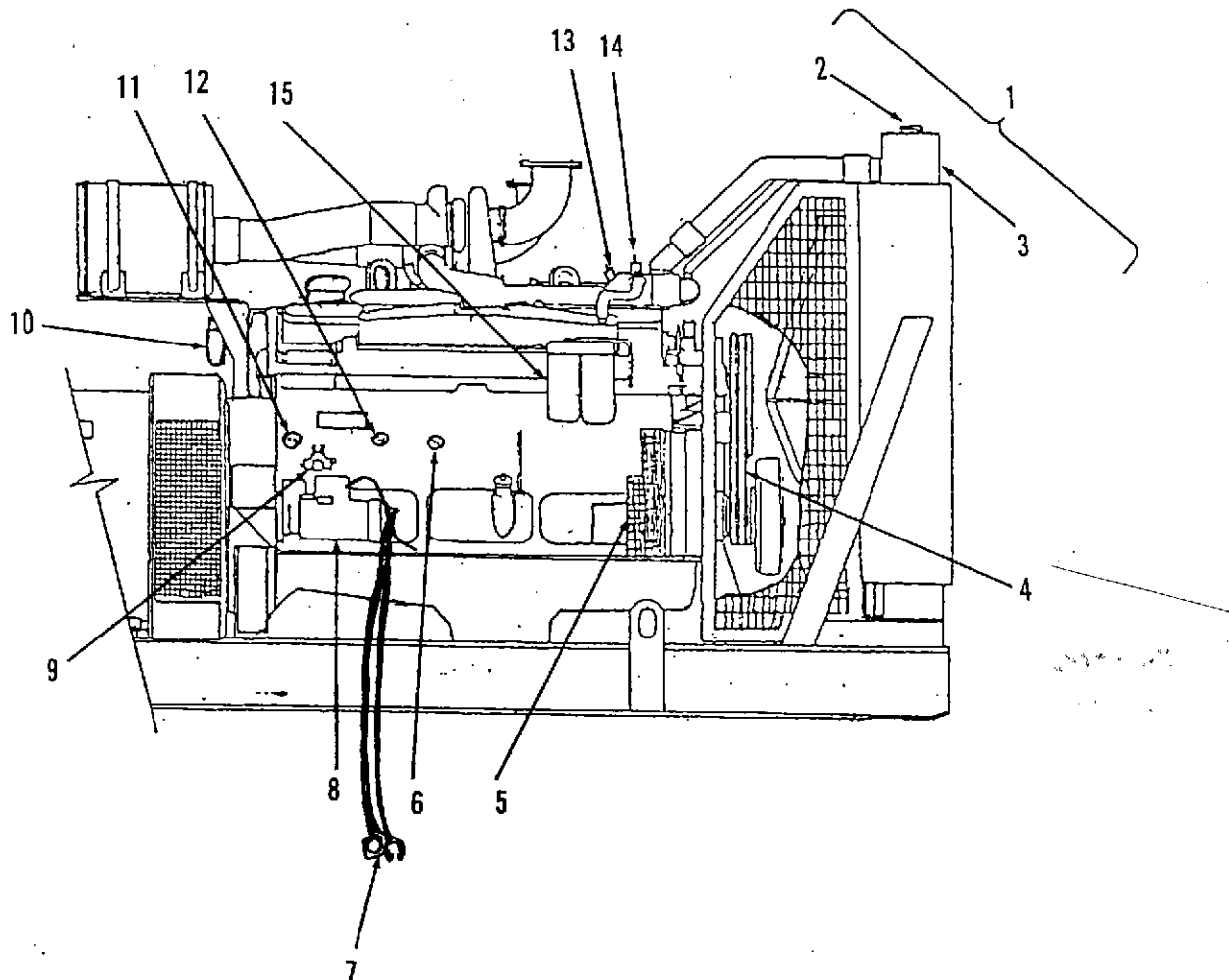
External Engine Components Right Side

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2226	1	Indicator, Air Restriction (Includes Fitting)	6	122-0755	3	Filter, Oil (CEC#3313279) [LF670]
2	140-1260	1	Fitting, Male - Hex	7	149-2232	2	Filter, Fuel (CEC# 299202) [FF202]
3	140-1545	1	Cap, Air Cleaner	8	193-0375	1	Sender & Bushing Sender, Temperature
4	140-2371	1	Cleaner, Air(Includes Element) Outdoor(CEC# 3021645)		505-0021	1	Bushing, Reducer (3/4" x 1/2")
5	140-1647	1	Heavy Duty (CEC# 3000958)	9	309-0269	1	Switch, Temperature - Low Engine Temperature (S4)
	140-2406	1	Element - Outdoor (CEC# 3022209) [AF928M]				
	140-1649	1	Elements - Heavy Duty Primary [AF891M]				
	140-1650	1	Secondary [AF890]				

NOTES:

(CEC#) Numbers in Parans are Cummins Engine Company Identification.
[] Numbers in Brackets are Fleetwood Inc. Identification.

External Engine Components Left Side



External Engine Components Left Side

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1		Ref	@Cooling System - Radiator (Select replaceable items as required)	7			Cable, Electrical
			Spec A		416-0632	1	Ground
		1	D-GA (BEARWARD # 53904-4PA)		416-0636	1	Battery (Positive)
		1	D-GB (BEARWARD # 53905-4P)		416-0639	1	Battery (Negative)
		1	D-GC (BEARWARD # 53905-4P)		416-0473	1	Battery (Jumper)
			Spec B	8	191-1588	1	Starter (24 VDC)
		1	D-GA (BEARWARD # 53904-2P)	9	307-2621-02	1	Switch, Magnetic
		1	D-GB (BEARWARD # 54080-4PA)	10	122-0526	1	Filter, Oil - Bypass
		1	D-GC (BEARWARD # 54080-4PA)	11			Switch & Bushing
			-----		309-0436	1	Switch, Thermostatic (S6) (Prealarm)
	503-0868	8	Clamp, Hose		505-0117	1	Bushing, Reducer - Flush (1/2NPT x 3/8NPT)
	503-1460	4	Hose - Upper	12			Switch & Coupling & Nipple
	130-3386	2	Tube, Water-Upper (D-GA)		309-0272	1	Switch, Pressure - Oil (S5) Alarm
	130-3387	2	Tube, Water-Upper (D-GB,GC)		505-0026	1	Coupling, Pipe (1/8NPT)
	503-0885	4	Clamp, Hose		505-0098	1	Nipple, Pipe (1/8NPT x 3/4")
	503-0856	2	Hose - Lower	13			Sender & Bushing
	130-3385	1	Tube, Water-Lower (D-GA)		192-0375	1	Sender, Temperature (E2)
	130-3388	1	Tube, Water-Lower (D-GB,GC)		505-0021	1	Bushing, Reducer (3/4NPT x (1/2NPT)
2	130-0523	1	Cap, Radiator (7 PSI)	14			Switch & Bushing
3			Radiator (Excludes Cap)		309-0437	1	Switch, Thermostatic (S2) (Shutdown)
			Spec A		505-0117	1	Bushing, Reducer - Flush (1/2NPT x 3/8NPT)
	130-3284	1	D-GA	15			*Filter, Water - W/Corosion Inhibiting Chemical DCA4
	130-3285	1	D-GB, GC			1	Service for 20-40 Gal Coolin System (CEC# 3318157)[WF207
			Spec B			1	Service for 40-60 Gal Coolin System (CEC# 3315116)[WF207
	130-3400	1	D-GA			1	Pre-Charging for 20-90 Gal Cooling System (CEC# 331831 [WF2076]
	130-3401	1	D-GB, GC				
4	511-0165	1	Belt, Drive - Fan				
5			Alternator Charging Components				
	191-1846-01	1	Alternator (35 Amp, 24 VDC)				
	130-3317-01	1	Pulley, Drive				
	511-0163	1	Belt, Drive - Alternator				
6			Switch & Coupling & Nipple				
	309-0169	1	Switch, Pressure - Oil (S1) Shutdown				
	505-0026	1	Coupling, Pipe (1/8NPT)				
	505-0098	1	Nipple, Pipe (1/8NPT x 3/4")				

NOTES:

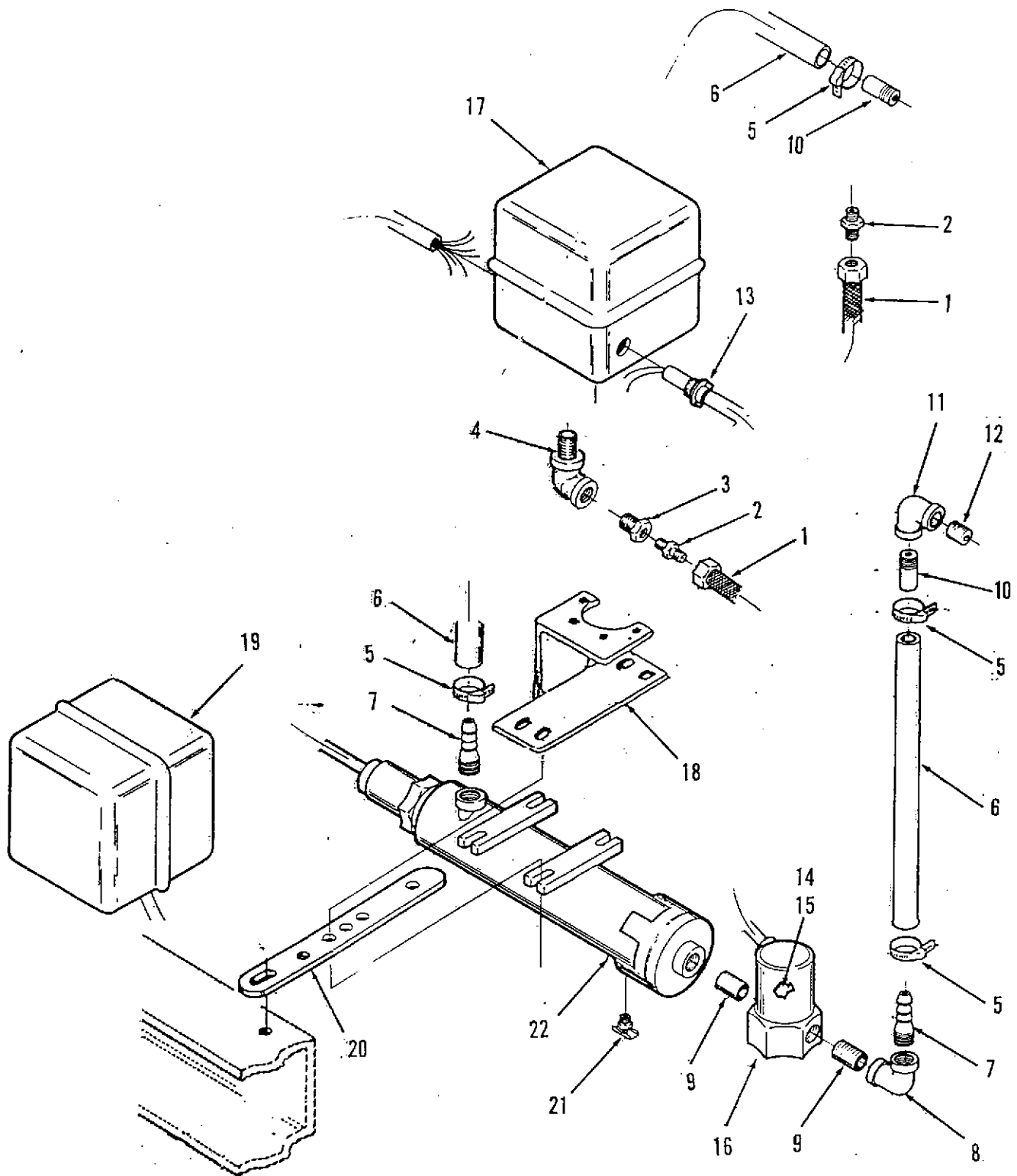
@ Cooling Systems Manufactured by:
BEARWARD ENGINEERING LTD
Main Road, Far Cotton
Northampton, England NN4 9HU

USA Office:
BEARWARD RADIATOR
Route 222 Box 187
Fleetwood, PA 19522
215-944-6017

* Replacement cartridges recommend and should be used in lieu of the Original Engine Factory Installed Item which contains a Pre-Charge amount of DCA or DCA4 Chemical. Replacement with Pre-charge Cartridge may overload the Cooling System and cause problems or failure of the Set.

(CEC#) Numbers in Parans are Cummins Engine Company Identification.
[] Numbers in Brackets are Fleetwood Inc. Identification.

Heater - Engine Coolant Kim Type

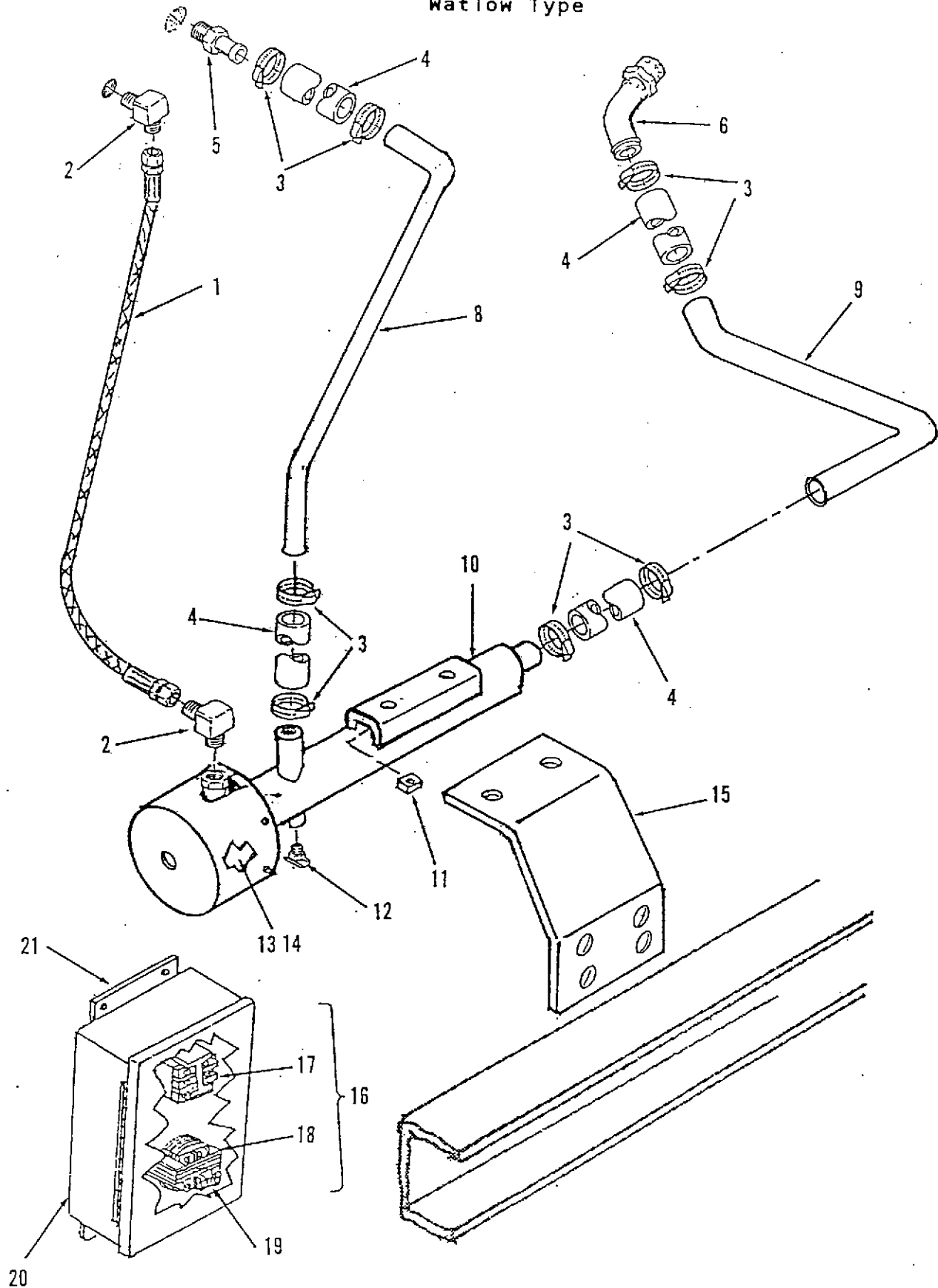


Heater - Engine Coolant Kim Type

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0188	1	Line, Fuel	18	333-0224	1	Bracket, Support
2	502-0193	2	Connector				Attaching Parts for Bracket
3	505-0007	1	Bushing, Reducer - Hex		800-0007	4	Screw, Cap - Hex Head (1/4-20 x 1")
4	502-0054	1	Elbow, Pipe - Street, 90°		850-0040	4	Washer, Lock - Spring (1/4"
5	503-0429	4	Clamp, Hose		862-0001	4	Nut, Hex (1/4-20)
6	503-1411	AR	Hose, Bulk	19			Contactors
7	505-0759	2	Adapter, Hose to Pipe		307-1460	1	230 VAC, 3 Pole
8	505-0041	1	Elbow, Pipe - 90°		307-1164	1	460 VAC, 3 Pole
9	505-0004	2	Nipple, Pipe - Close	20	130-1191	2	Bracket, Mounting
10	505-0324	2	Nipple, Pipe - Half				Attaching Parts for Bracket
11	505-0132	1	Elbow, Pipe - 90°		800-0052	2	Screw, Cap - Hex Head (3/8-16 x 1-1/2")
12	505-0102	1	Nipple, Pipe - Close		862-0003	2	Nut, Hex (3/8-16)
13	331-0027	6	Clamp, Cable	21	504-0003	1	Cock, Drain
14	323-0957	2	Nut, Wire	22			Heater, Electrical
15	332-0149	8	Lug, Terminal		333-0143	1	4000 Watt, 208 VAC - 1 Phase
16			Switch, Thermostatic		333-0164	1	4000 Watt, 208 VAC - 3 Phase
	309-0304	1	80° - 100° Fahrenheit		333-0138	1	4000 Watt, 240 VAC - 1 Phase
	309-0490	1	100° - 120° Fahrenheit		333-0190	1	4000 Watt, 240 VAC - 3 Phase
	309-0253	1	120° - 140° Fahrenheit		333-0150	1	4000 Watt, 277 VAC - 1 Phase
17	309-0307	1	Switch, Pressure - Oil		333-0183	1	4000 Watt, 380 VAC - 1 Phase
			Attaching Parts for Switch		333-0174	1	4000 Watt, 380 VAC - 3 Phase
	812-0079	4	Screw, Machine - Round Head (#8-32 x 1/2")		333-0161	1	4000 Watt, 480 VAC - 1 Phase
	854-0007	4	Washer, Lock - ET (#8)		333-0144	1	4000 Watt, 480 VAC - 3 Phase

AR : As Required, Bulk Hose available in Multifoot lengths.

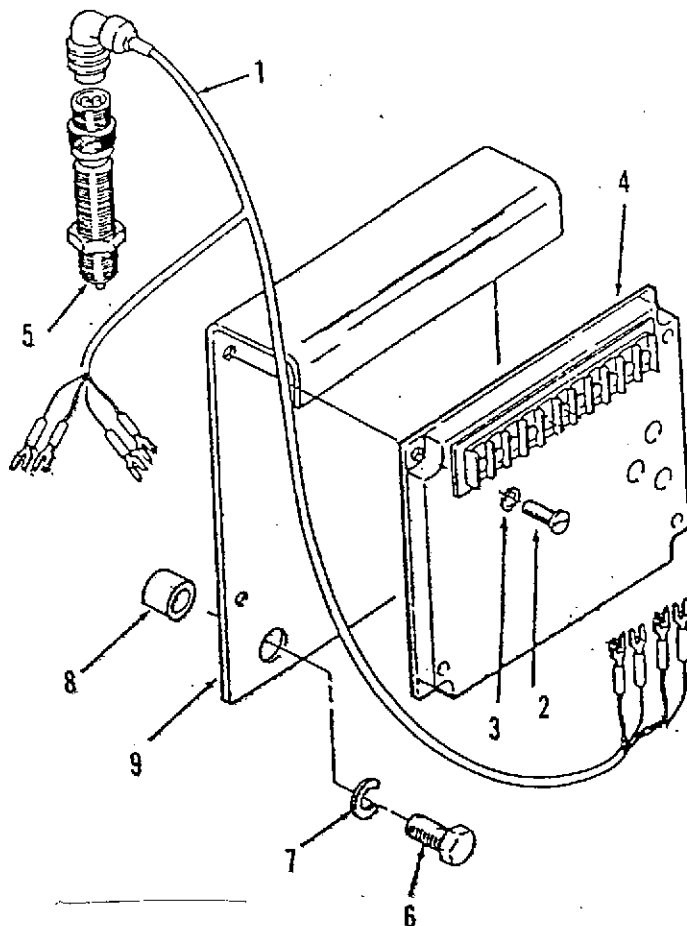
Heater - Engine Coolant Watlow Type



Heater - Engine Coolant Watlow Type

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0537-03	1	Hose Assembly - Oil Pressure	12	504-0003	1	Cock, Drain (1/4 NPT)
2	502-1043-01	2	Elbow, Pipe - Male, 90 DEG	13		1	Thermostat
3	503-1603	8	Clamp, Hose	14		1	Switch, Pressure - Oil
4	503-1602	4	Hose, Rubber	15	130-3189	1	Bracket, Mounting - Heater
5	502-1046	1	Coupling, Hose				Attaching Parts for Bracket
6		1	Coupling, Hose - Elbow	800-0210		4	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
8	130-3339	1	Tube, Water	850-0103		4	Washer, lock - Spring (3/8")
9	130-3340	1	Tube, Water	871-0028		4	Nut, Hex - Brass (3/8-16)
10			Heater, Electrical - Engine Coolant (Includes Thermostat, Oil Pressure Switch, Drain Cock and Mounting Nuts)	16			Switch, Control - Heater (Includes Contactor, Step- down Transformer with Fuse [480V Unit Only], Ground Lug and Box)
	333-0413-08	1	4000 Watt, 208 VAC		309-0567-01	1	120 VAC
	333-0389-02	1	4000 Watt, 240 VAC		309-0567-02	1	480 VAC
	333-0389-04	1	4000 Watt, 480 VAC (Includes Heater Control Switch Unit)	17		1	Contactor (37.5 AMP, 3 Pole, SPST, 120 VAC Coil)
	333-0389-06	1	4000 Watt, 120 VAC (Includes Heater Control Switch Unit)	18		1	Fuse (1 AMP)
	800-0222	2	Attaching Parts for Heater Screw, Cap - Hex Head (1/4-20 x 3/4")	19		1	Transformer, Step-down (240/480VAC Primary, 120 VAC Secondary, with Fuse Clips on output Terminals)
	850-0101	2	Washer, lock - Spring (1/4")	20		1	Box, Electrical
	402-0608	2	Isolator, Vibration	21	333-0390	1	Bracket, Mounting - Switch
	402-0609	2	Isolator, Vibration				
11		2	Nut, Special (Supplied with Heater)				

Electric Governor



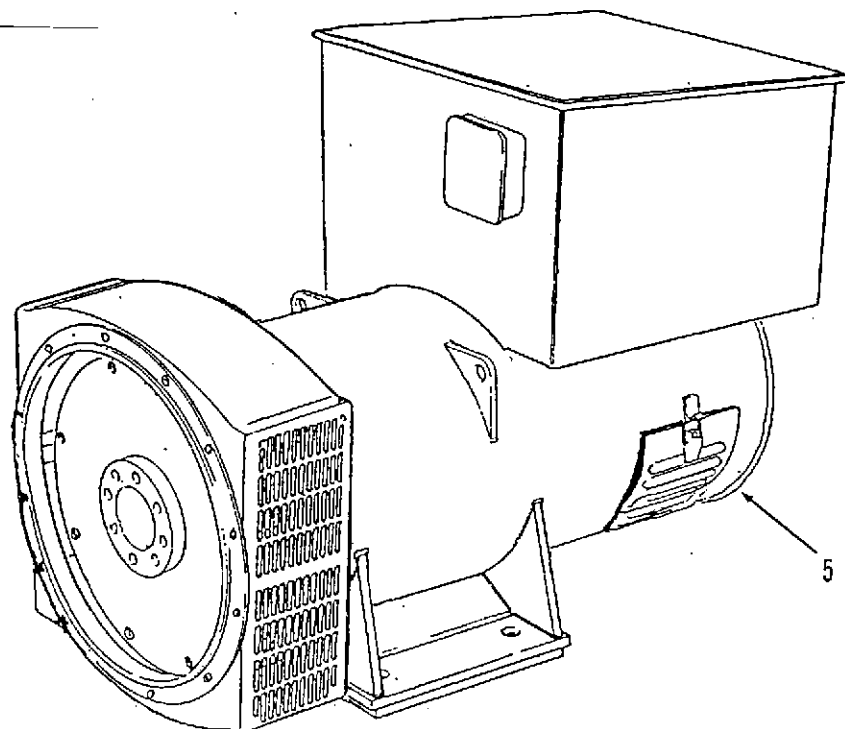
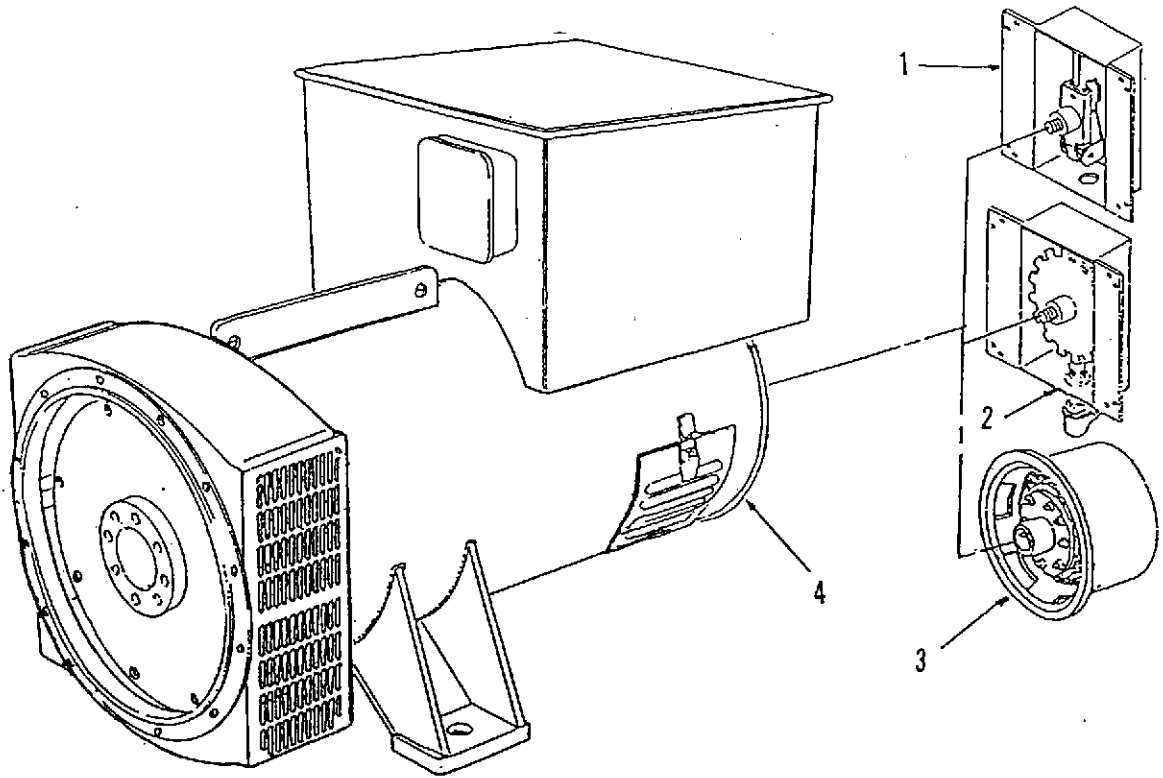
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-1777	1	Harness, Wiring	5	151-0411	1	Pickup, Magnetic
2	813-0103	4	Screw, Machine - Round Head (#10-32 x 3/4")	6	800-0151	2	Screw, Cap - Hex Head (3/4-10 x 1")
3	870-0131	4	Nut, Self-locking, Hex (#10-32)	7	850-0079	2	Washer, Lock - Spring (3/4")
4	151-0637	1	Controller, Governor	8	370-4040	2	Spacer, Sleeve
				9	150-2007	1	Bracket, Mounting

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Generator Spec A

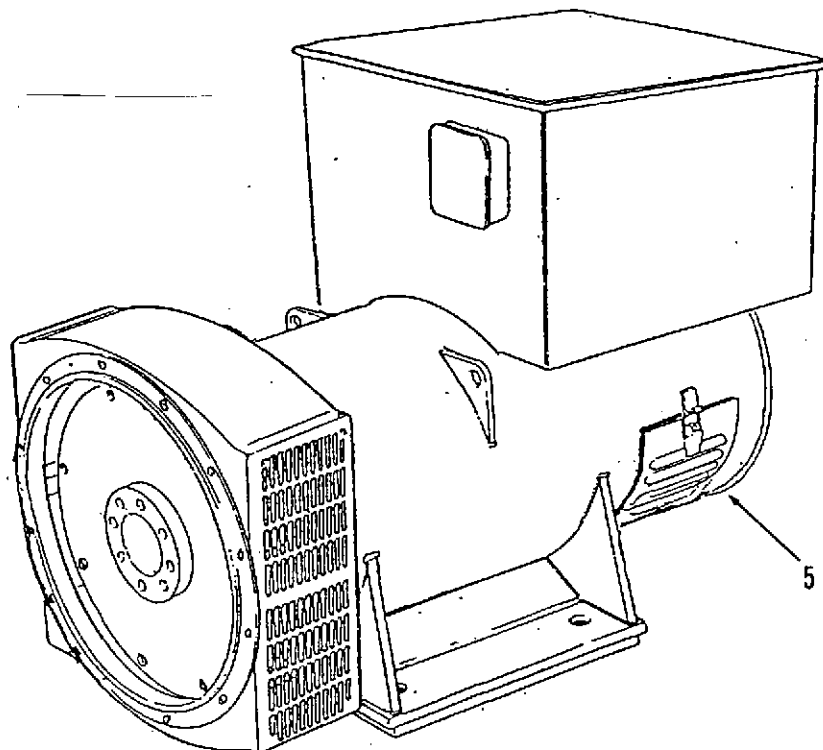
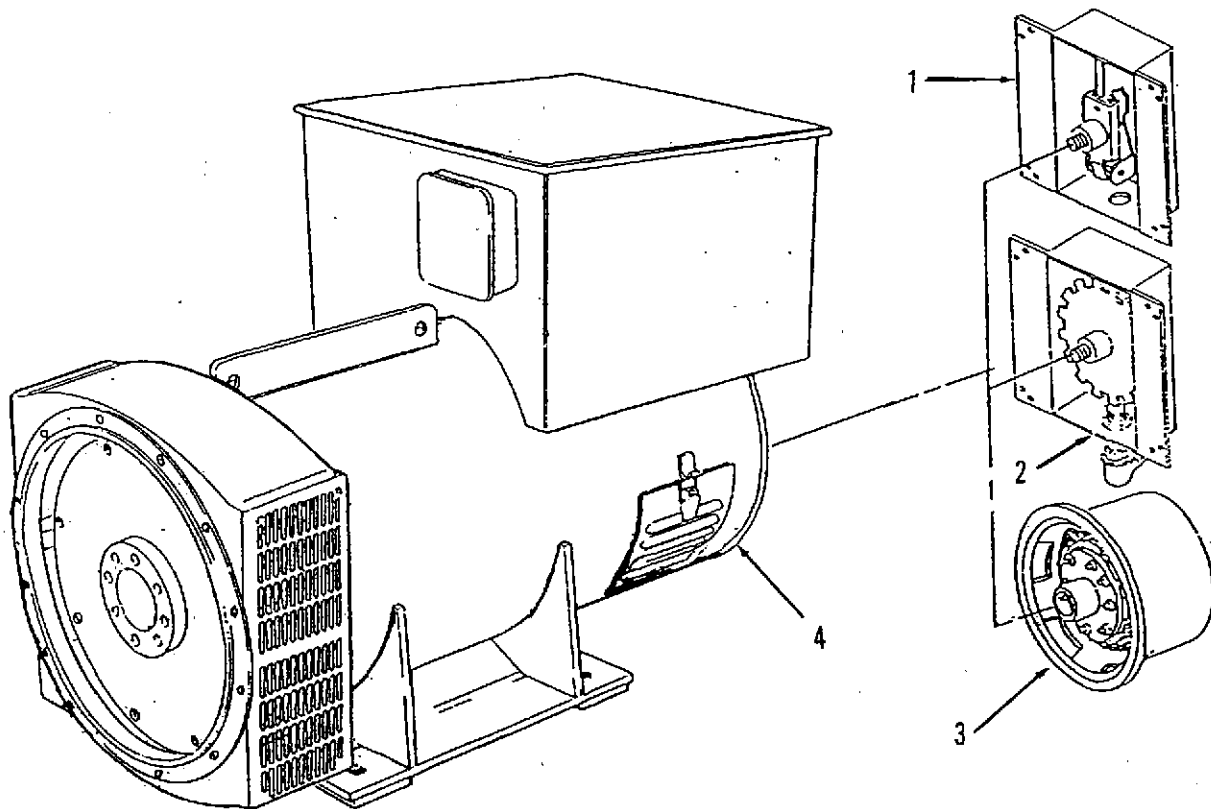


Generator Spec A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1		1	Module, Overspeed Switch (See Separate Page for Parts)				
	821-2045	4	Attaching Parts Screw, Self-locking - Hex Hd (M8 x 1.25 x 16mm)	800-0558	12		Adapter to Flywheel Housing Screw, Cap - Hex Head, Gr 8 (1/2-13 x 1-1/2")
2		1	Module, Overspeed Sensor (See Separate Page for Parts)	850-0060	12		Washer, Lock - Spring (1/2") Drive Disc to Flywheel
	821-2045	4	Attaching Parts Screw, Self-locking - Hex Hd (M8 x 1.25 x 16mm)	800-0530	6		Screw, Cap - Hex Head, Gr 8 (5/8-11 x 1-1/4")
3		1	Module, Perm. Magnet Exciter (See Separate Page for Parts)	5	Note 1		Generator - Frame 6 (See Separate pages for Parts)
	249-0298	4	Attaching Parts Screw, Cap - Hex Head (M8 x 16mm)	800-0578	4		Attaching Parts Generator to Chassis Screw, Cap - Hex Head (1 1/4-7 x 3-1/2")
	249-0218	4	Washer, Lock (M8)	850-0092	4		Washer, Lock - Spring (1-1/4")
	249-0315	4	Clamp, Retaining	526-0093	4		Washer, Flat (1-1/4")
4	Note 1		Generator - Frame 5 (See Separate pages for Parts)	862-0017	4		Nut, Hex (1 1/4-7)
			Attaching Parts Generator to Chassis Screw, Cap - Hex Head (1-8 x 2-3/4")	800-0576	16		Adapter to Flywheel Housing Screw, Cap - Hex Head, Gr 8 (1/2-13 x 3/4")
	800-0579	2	Washer, Lock - Spring (1")	850-0060	16		Washer, Lock - Spring (1/2") Drive Disc to Flywheel
	850-0087	2	Washer, Flat (1")	800-0530	6		Screw, Cap - Hex Head, Gr 8 (5/8-11 x 1-1/4")
	526-0084	2	Nut, Hex (1-8)				
	862-0018	2					

Note 1: For replacement Generator please supply the complete Gen Set nameplate and Generator nameplate data.

Generator
Begin Spec B

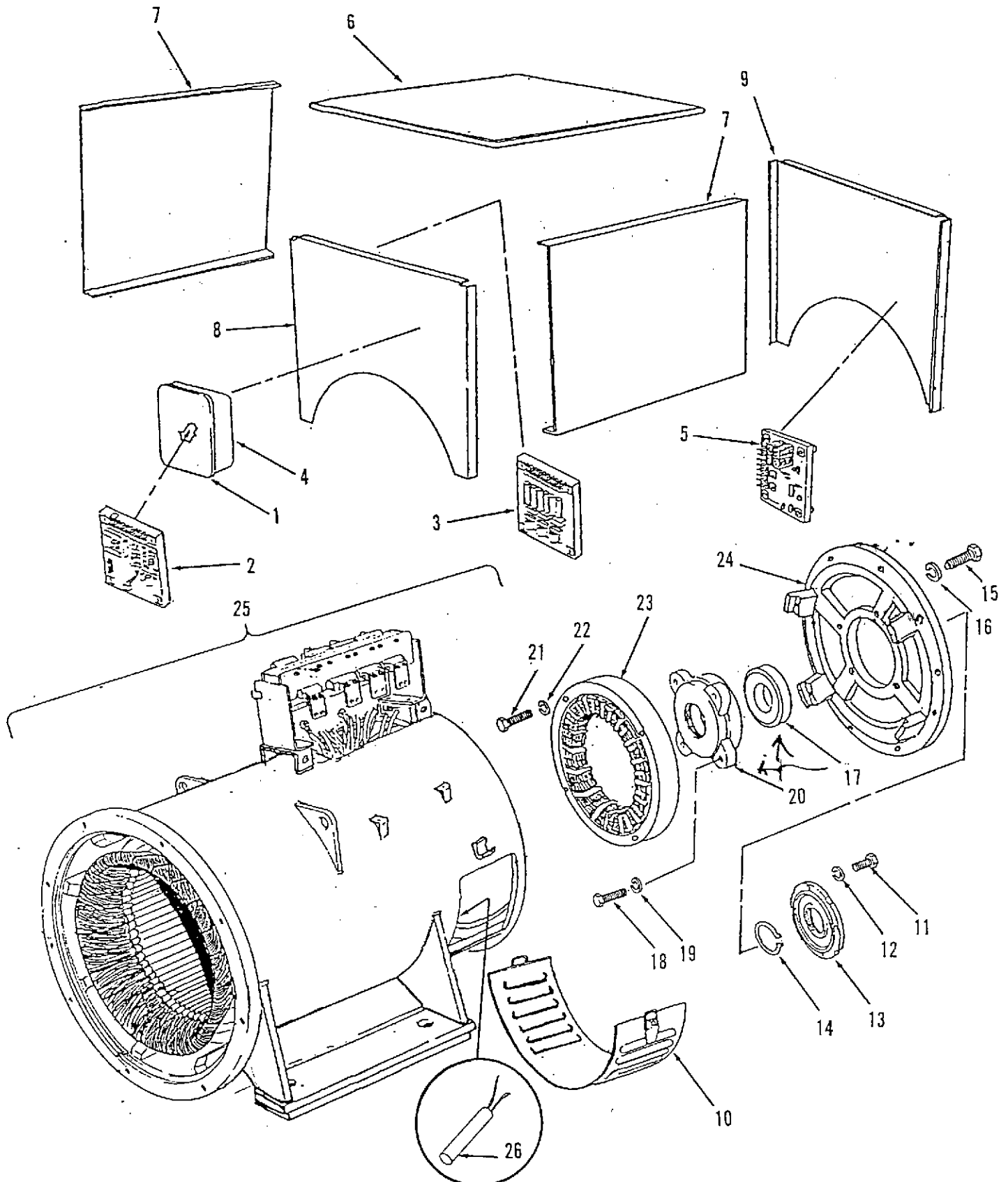


Generator Begin Spec B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1		1	Module, Overspeed Switch (See Separate Page for Parts)				Adapter to Flywheel Housing
	821-2045	4	Attaching Parts Screw, Self-locking - Hex Hd (M8 x 1.25 x 16mm)	800-0558	12		Screw, Cap - Hex Head, Gr 8 (1/2-13 x 1-1/2")
2		1	Module, Overspeed Sensor (See Separate Page for Parts)	850-0060	12		Washer, Lock - Spring (1/2")
	821-2045	4	Attaching Parts Screw, Self-locking - Hex Hd (M8 x 1.25 x 16mm)	800-0530	6		Drive Disc to Flywheel
3		1	Module, Perm. Magnet Exciter (See Separate Page for Parts)	5	Note 1		Screw, Cap - Hex Head, Gr 8 (5/8-11 x 1-1/4")
	249-0298	4	Attaching Parts Screw, Cap - Hex Head (M8 x 16mm)				Generator - Frame 6 (See Separate pages for Parts)
	249-0218	4	Washer, Lock (M8)	800-0273	4		Attaching Parts
	249-0315	4	Clamp, Retaining				Generator to Chassis
4	Note 1		Generator - Frame 5 (See Separate pages for Parts)	850-0092	4		Screw, Cap - Hex Head (1 1/4-7 x 4")
	800-0579	4	Attaching Parts Generator to Chassis Screw, Cap - Hex Head (1-8 x 2-3/4")	526-0093	4		Washer, Lock - Spring (1-1/4")
	850-0087	4	Washer, Lock - Spring (1")	862-0017	4		Washer, Flat (1-1/4")
	526-0084	4	Washer, Flat (1")				Nut, Hex (1 1/4-7)
	862-0018	4	Nut, Hex (1-8)	800-0576	16		Adapter to Flywheel Housing
				850-0060	16		Screw, Cap - Hex Head, Gr 8 (1/2-13 x 3/4")
				800-0530	6		Washer, Lock - Spring (1/2")
							Drive Disc to Flywheel
							Screw, Cap - Hex Head, Gr 8 (5/8-11 x 1-1/4")

Note 1: For replacement Generator please supply the complete Gen Set nameplate and Generator nameplate data.

Generator Stator Section Frame 6

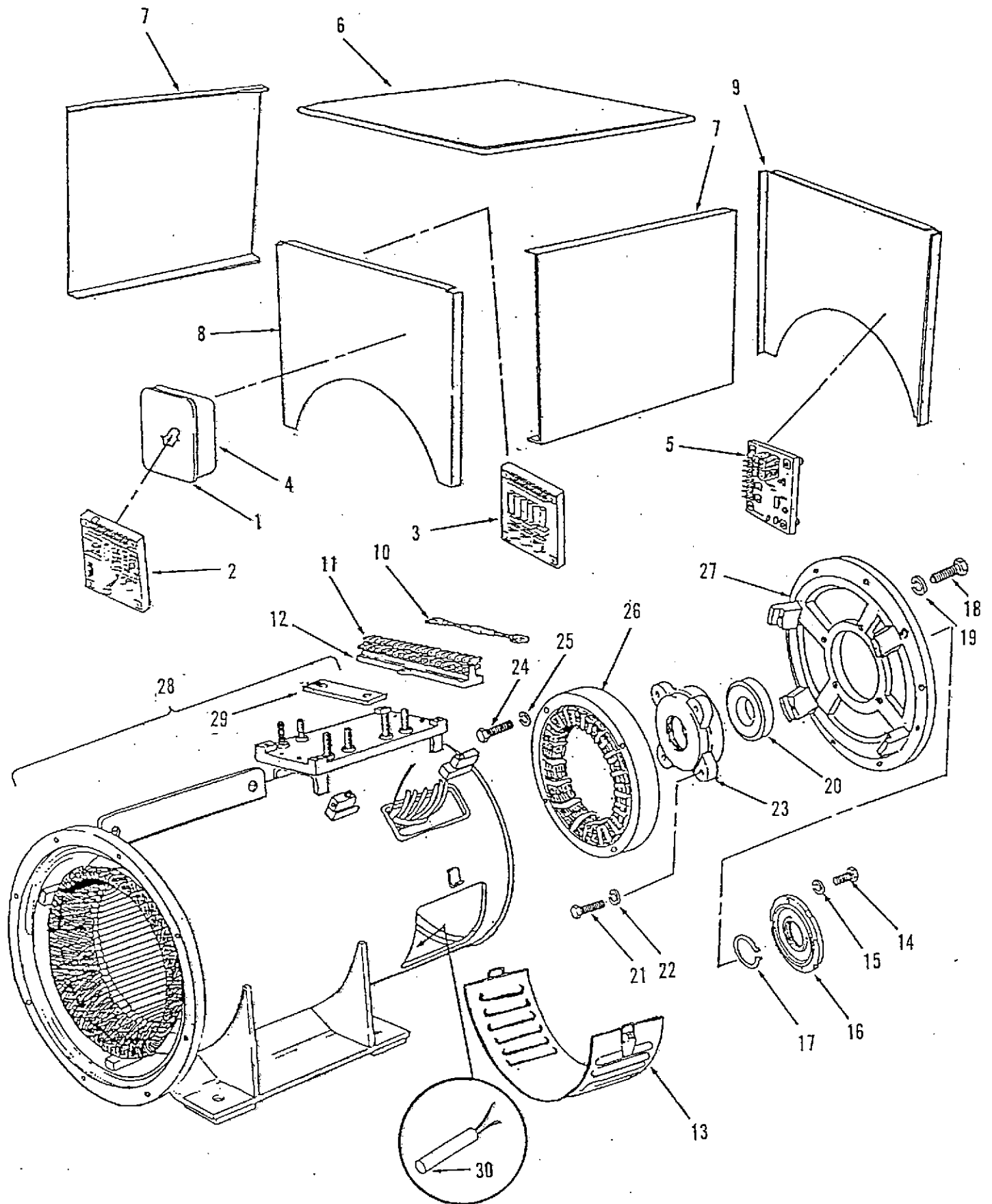


**Generator
Stator Section
Frame 5**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	249-0631	2	Lid	14	249-0201	8	Screw, Cap - Hex Head (M10 x 35mm)
	249-0304	4	Attaching Parts	15	249-0202	8	Washer, Lock - Spring (M10)
2			Screw, Captive	16	249-0242	1	Cap, Bearing - Outer
	305-0770	1	Regulator, Voltage	17	249-0232	1	Circlip
	305-0778	1	Standard 1 Phase u/w PMG	18	249-0243	4	Screw, Cap - Hex Head (M10 x 30mm)
			3 Phase (Used with PMG Exciter & 3 Phase Sensing Module)	19	249-0202	4	Washer, Lock - Spring (M10)
	305-0803	1	Manual	20	249-0241	1	Bearing, Ball
			Attaching Parts	21	249-0245	4	Screw, Cap - Hex Head (M10 x 50mm)
	249-0398	4	Pillar, Threaded	22	249-0202	4	Washer, Lock - Spring (M10)
3	249-0564	1	Module, 3 Phase Sensing	23	249-0244	1	Cap, Bearing - Inner
			Attaching Parts	24	249-0256	6	Screw, Cap - Hex Head (M6 x 65mm)
	249-0398	4	Pillar, Threaded	25	249-0212	6	Washer, Lock - Spring (M6)
4	249-0395	2	Box	26	249-0255	1	Stator, Exciter
5	300-3209-02	1	Module, Frequency Detection	27	249-0272	1	Bracket, End
			Attaching Parts	28	NFS	1	Stator, Generator (Includes Terminal Studs and Links)
	249-0295	4	Screw, Cap - Hex Head (M5 x 35mm)				Attaching Parts Stator to Adapter
	249-0288	4	Washer, Plastic (M5)		249-0268	8	Screw, Cap - Hex Head (M12 x 35mm)
	249-0287	4	Nut, Hex - Nylon (M5)				Washer, Lock - Spring (M12)
6	NFS	1	Lid		249-0205	8	Link, Terminal
7	NFS	2	Panel, Side	29	249-0200	4	Heater, Electrical - Replacement
8	NFS	1	Panel, Front				70 Watt, 120 VAC
9	NFS	1	Panel, Rear		249-0621	1	70 Watt, 240 VAC
10	249-0428	1	Resistor (Voltage Code H Only)	30	249-0622	1	
11	249-0289	3	Block, Terminal - AUX				
12	249-0424	1	Base, Terminal - AUX				
13	249-0249	1	Grille, Inlet - Air				

NFS - Not For Sale

Generator Stator Section Frame 5

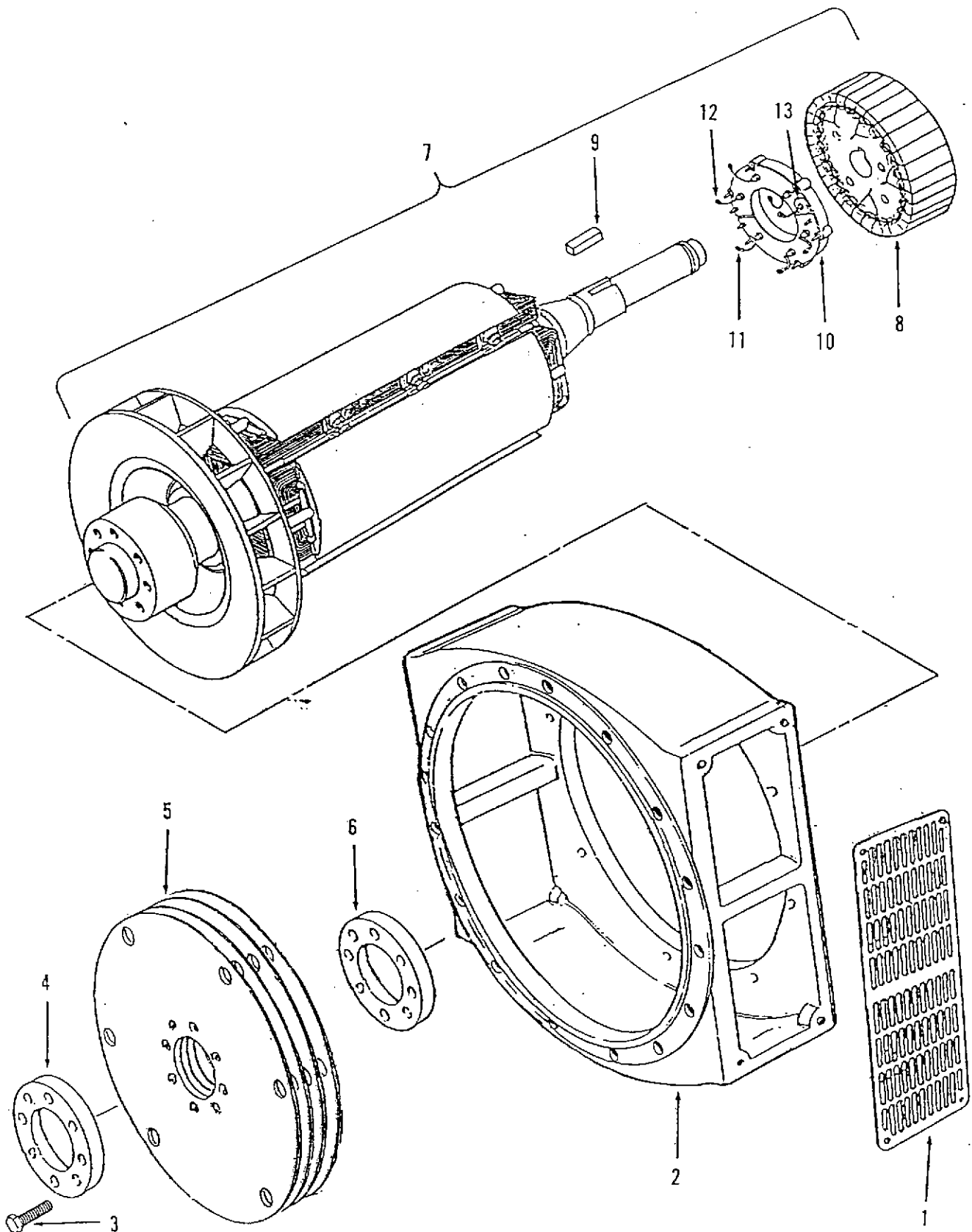


**Generator
Stator Section
Frame 6**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	249-0631	1	Lid	11	249-0243	4	Screw, Cap - Hex Head (M10 x 30mm)
	249-0304	4	Screw, Captive	12	249-0202	4	Washer, Lock - Spring (M10)
2			Regulator, Voltage	13	249-0510	1	Cap, Bearing - Outer
	305-0770	1	Standard 1 Phase u/w PMG	14	249-0447	1	Circlip
	305-0778	1	3 Phase (Used with PMG Exciter & 3 Phase Sensing Module)	15	249-0204	8	Screw, Cap - Hex Head (M12 x 40mm)
	305-0803	1	Manual	16	249-0205	8	Washer, Lock - Spring (M12)
			Attaching Parts	17	249-0448	1	Bearing, Ball
	249-0398	4	Pillar, Threaded	18	249-0245	4	Screw, Cap - Hex Head (M10 x 50mm)
3	249-0564	1	Module, 3 Phase Sensing	19	249-0202	4	Washer, Lock - Spring (M10)
			Attaching Parts	20	249-0509	1	Cap, Bearing - Inner
	249-0398	4	Pillar, Threaded	21	249-0445	6	Screw, Cap - Hex Head (M6 x 85mm)
4	249-0395	1	Box	22	249-0212	6	Washer, Lock - Spring (M6)
5	300-3209-02	1	Module, Frequency Detection	23	249-0470	1	Stator, Exciter
			Attaching Parts	24	249-0527	1	Bracket, End
	249-0295	4	Screw, Cap - Hex Head (M5 x 35mm)	25	NFS	1	Stator, Generator (Includes Terminal Studs and Links)
	249-0288	4	Washer, Plastic (M5)				Attaching Parts Stator to Adapter
	249-0287	4	Nut, Hex - Nylon (M5)		249-0204	8	Screw, Cap - Hex Head (M12 x 40mm)
6	NFS	1	Lid		249-0205	8	Washer, Lock - Spring (M12)
7	NFS	2	Panel, Side	26			Heater, Electrical - Replacement
8	NFS	1	Panel, Front		249-0621	1	70 Watt, 120 VAC
9	NFS	1	Panel, Rear		249-0622	1	70 Watt, 240 VAC
10	249-0513	1	Grille, Inlet - Air				

NFS - Not For Sale

Generator
Rotor Section
SAE 0/ SAE 18
Frame 5

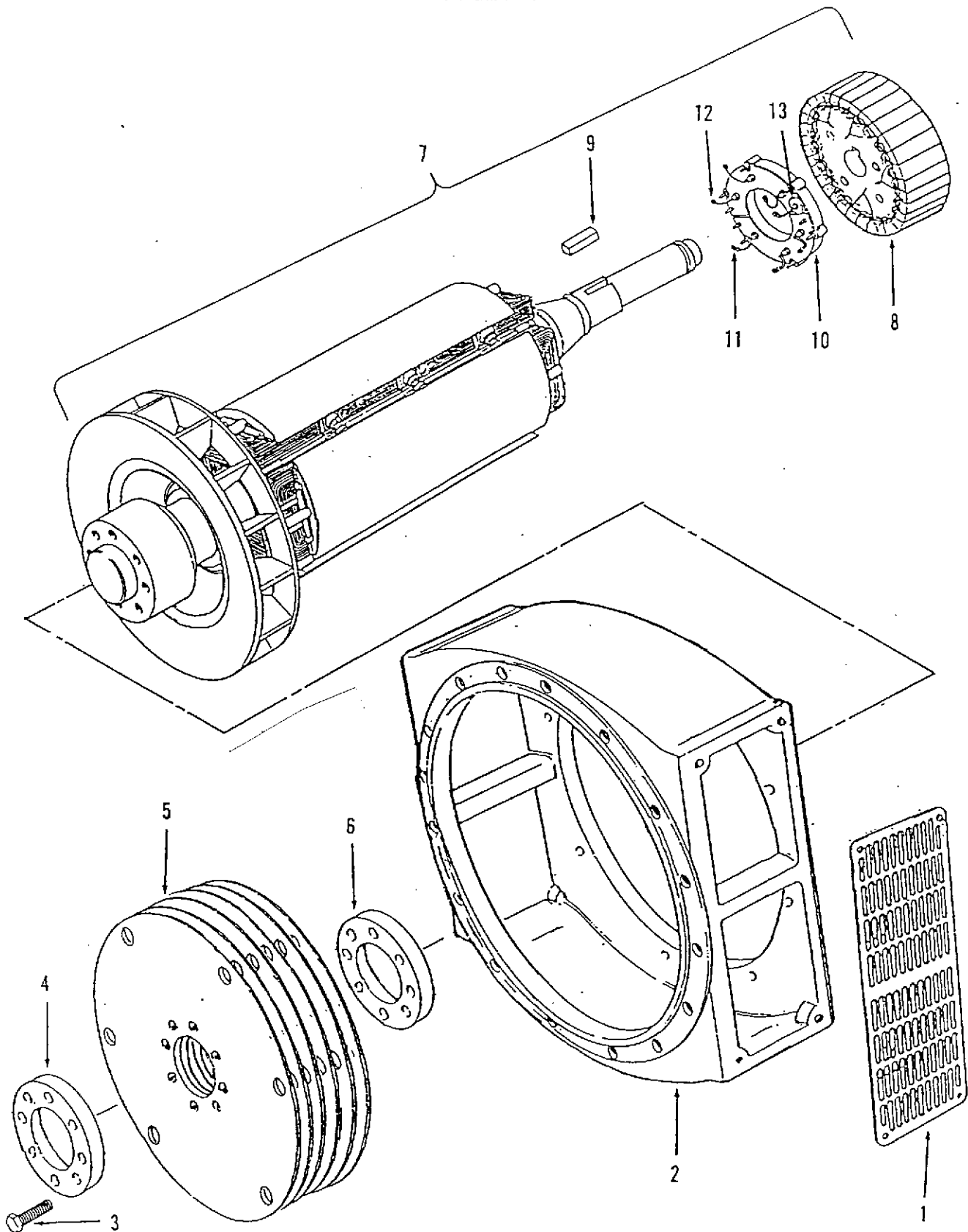


Generator
Rotor Section
SAE 0/ SAE 18
Frame 5

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	249-0408	2	Screen, Air - Adapter	7	NFS	1	Rotor, Generator (Includes
			Attaching Parts				Exciter, Key, and Rectifier
	249-0294	12	Screw, Cap - Hex Head	8	249-0522	1	Assemblies)
			(M5 x 12mm)				Rotor, Exciter (Does Not
	249-0307	12	Washer, Lock - Spring (M5)	9	249-0271	1	Include Rectifier Assy)
	249-0365	12	Washer, Flat (M5)	10	249-0237	1	Key
2	249-0322	1	Adapter, Generator SAE 0				Rectifier Assy
3	249-0437	8	Screw, Cap - Hex Head				(Includes Diodes)
			(M20 x 75mm)	11	249-0239	3	Diode, Forward Polarity
4	249-0230	1	Plate, Pressure	12	249-0238	3	Diode, Reverse Polarity
5	249-0276	4	Disc, Drive SAE 18	13	249-0240	1	Varistor
6	249-0277	1	Spacer				

NFS - Not For Sale

Generator
Rotor Section
SAE 0/ SAE 18
Frame 6

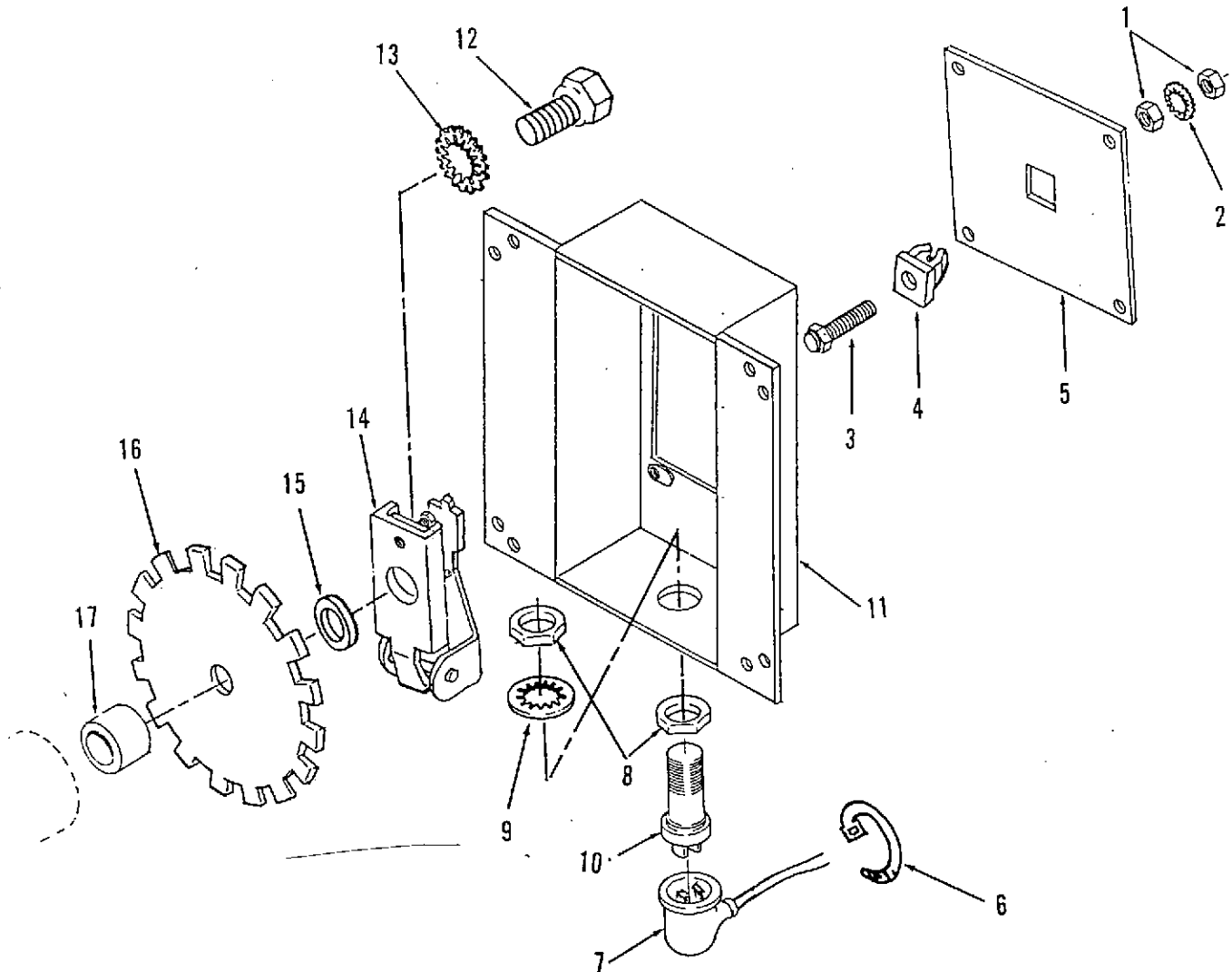


Generator
Rotor Section
SAE 0/ SAE 18
Frame 6

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	249-0534	2	Screen, Air - Adapter	7	NFS	1	Rotor, Generator (Includes
	249-0294	12	Attaching Parts				Exciter, Key, and Rectifier
	249-0307	12	Screw, Cap - Hex Head	8	249-0512	1	Assemblies)
	249-0365	12	(M5 x 12mm)	9	249-0271	1	Rotor, Exciter (Does Not
2	249-0533	1	Washer, Lock - Spring (M5)	10	249-0237	1	Include Rectifier Assy)
3	249-0437	8	Washer, Flat (M5)				Key
			Adapter, Generator SAE 0				Rectifier Assy
			Screw, Cap - Hex Head				(Includes Diodes)
			(M20 x 75mm)	11	249-0239	3	Diode, Forward Polarity
4	249-0230	1	Plate, Pressure	12	249-0238	3	Diode, Reverse Polarity
5	249-0276	6	Disc, Drive SAE 18	13	249-0240	1	Varister
6	249-0277	1	Spacer				

NFS - Not For Sale

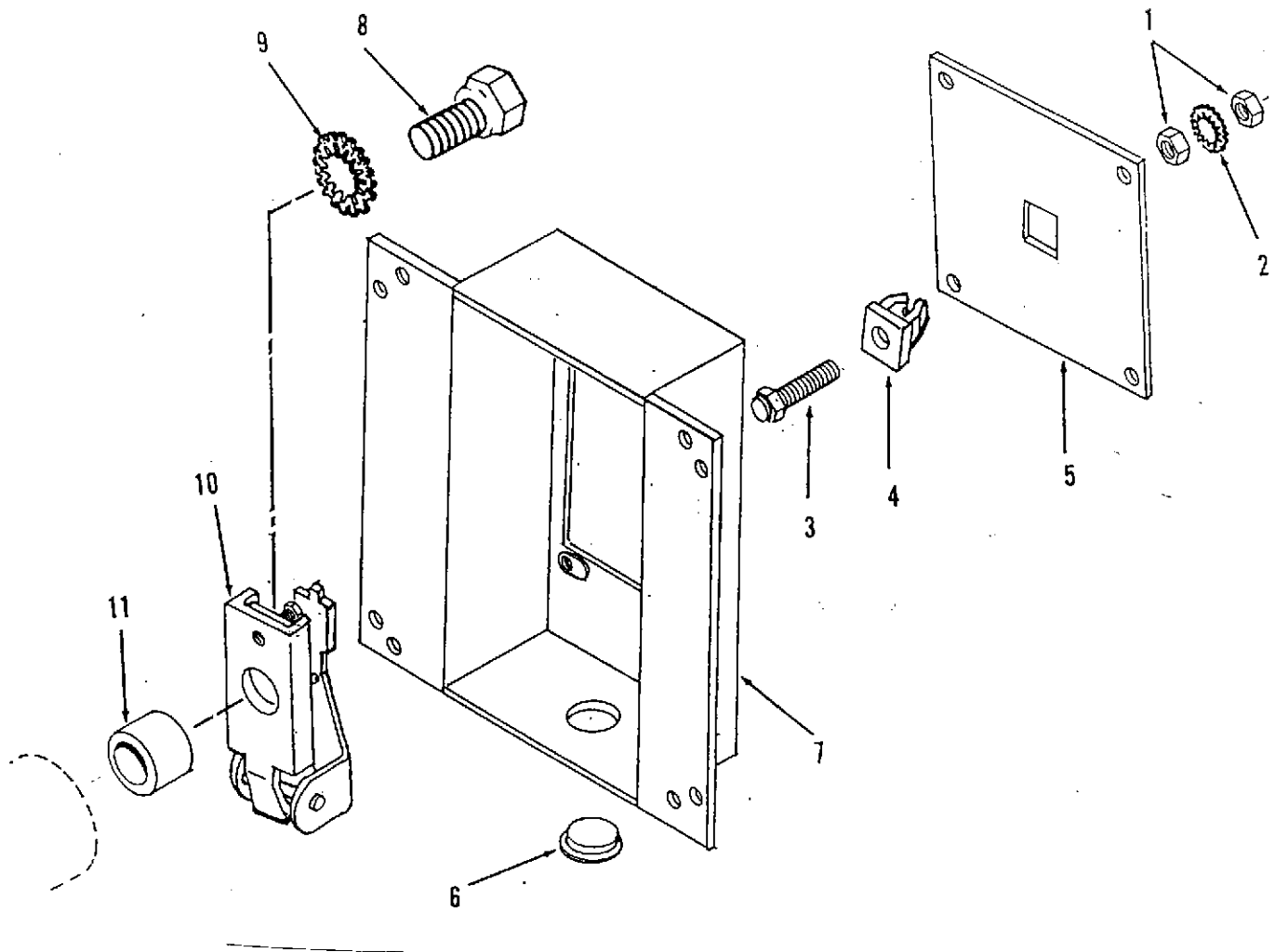
Generator Overspeed Sensor



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	862-0001	2	Nut, Hex (1/4-20)
2	853-0013	1	Washer, Lock - EIT (1/4")
3	150-0723	1	Point, Overspeed
4	870-0250	1	Nut, Insulated
5	150-2206	1	Plate, Mounting
	821-0005	4	Screw, Self-locking - Hex (#10-32 x 1/2")
6	332-1445	5	Tie, Cable
7	338-2189-02	1	Harness, Wiring
8	868-0011	2	Nut, Jam - Hex (3/4-16)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	854-0031	1	Washer, Lock - IT (3/4")
10	150-1406	1	Sensor, Speed
11	150-2207	1	Cover, Overspeed Switch
12	718-1058	1	Screw, Cap - Hex Head (M10 x 1.5 x 45mm)
13	856-0010	1	Washer, Lock - EIT (3/8")
14	150-0956	1	Switch, Overspeed
15	370-4031	1	Spacer, Sleeve
16	150-2204	1	Wheel - Speed Sensor
17	370-4032	1	Spacer, Sleeve

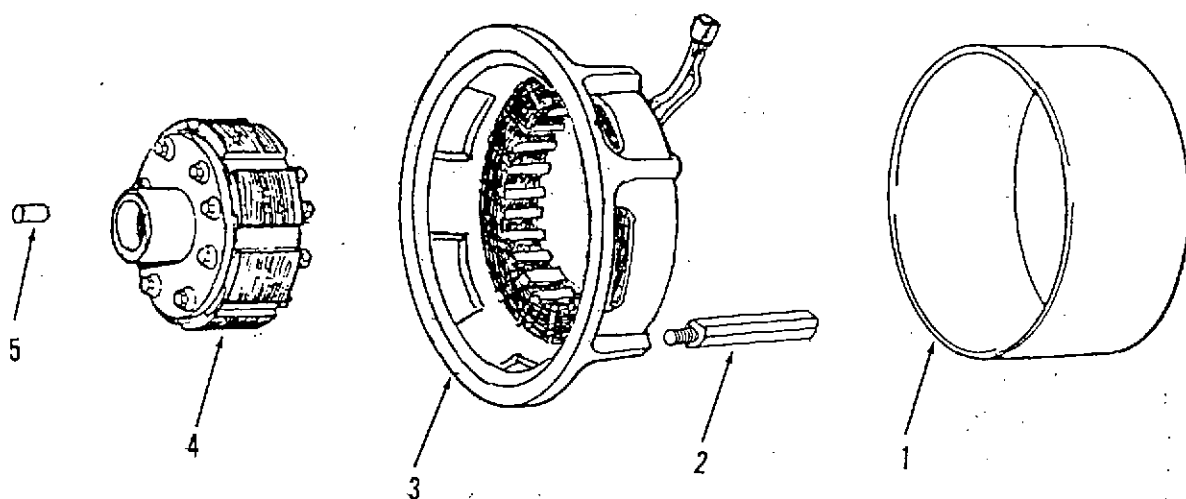
Generator Overspeed Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	862-0001	2	Nut, Hex (1/4-20)
2	853-0013	1	Washer, Lock - EIT (1/4")
3	150-0723	1	Point, Overspeed
4	870-0250	1	Nut, Insulated
5	150-2206	1	Plate, Mounting
	821-0005	4	Screw, Self-locking - Hex (#10-32 x 1/2")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	517-0136	1	Plug, Plastic
7	150-2207	1	Cover, Overspeed Switch
8	718-1058	1	Screw, Cap - Hex Head (M10 x 1.5 x 45mm)
9	856-0010	1	Washer, Lock - EIT (3/8")
10	150-0956	1	Switch, Overspeed
11	370-4032	1	Spacer, Sleeve

Generator Permanent Magnet Exciter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	249-0497	1	Cover
	249-0294	3	Attaching Parts for Cover
			Screw, Cap - Hex Head
			(M5 x 12mm)
	249-0307	3	Washer, Lock (M5)
2	249-0496	3	Pillar, Threaded
3	249-0426	1	Stator, Exciter with Frame

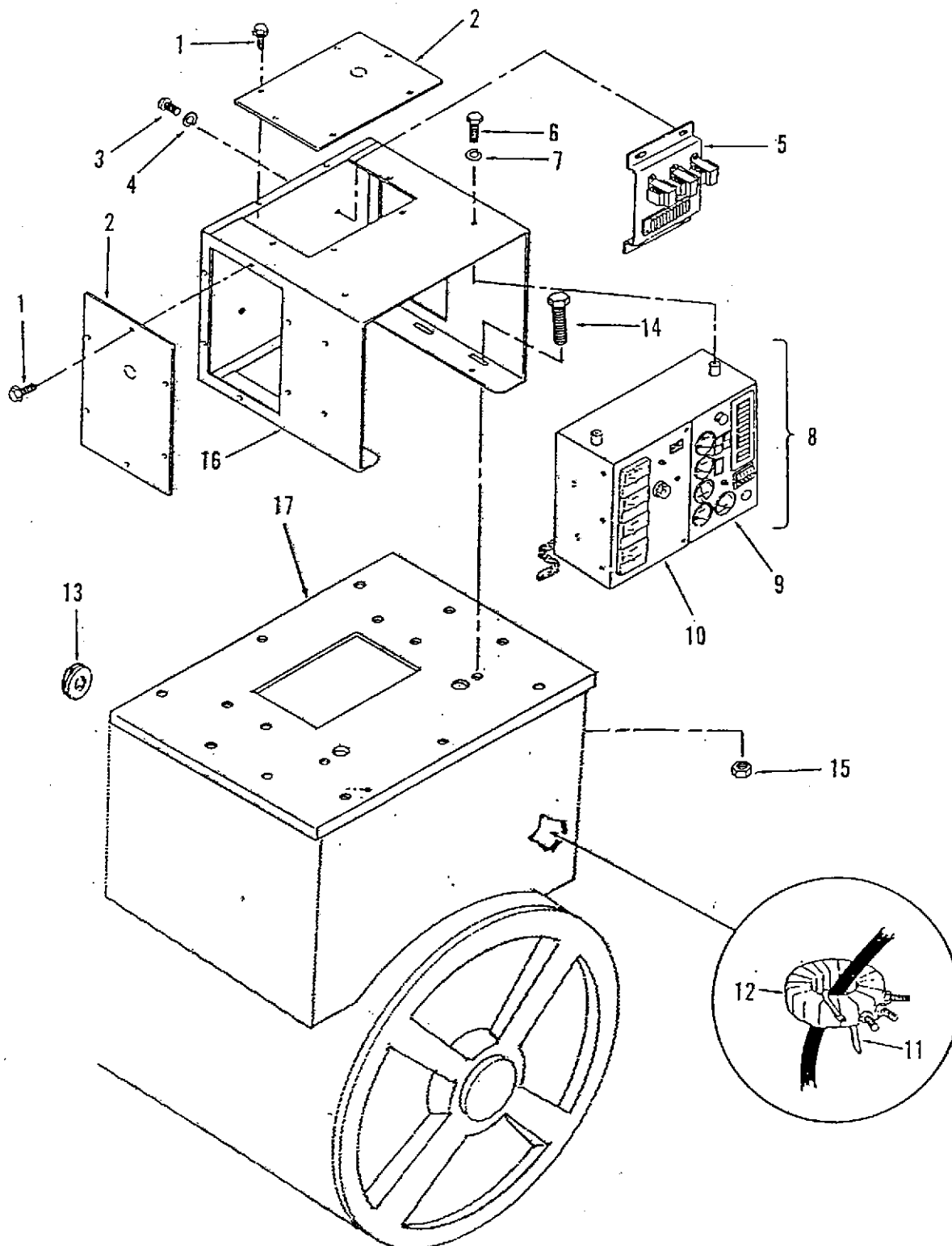
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4			Rotor, Exciter
	249-0427	1	Frame 2, 3, 4 Generators
	249-0644	1	Frame 5, 6, 7 Generators
			Attaching Parts for Rotor
	249-0399	1	Bolt
	249-0202	1	Washer, Lock (M10)
5	249-0313	1	Pin, Dowel

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Generator Set Control (With Housing Enclosure)

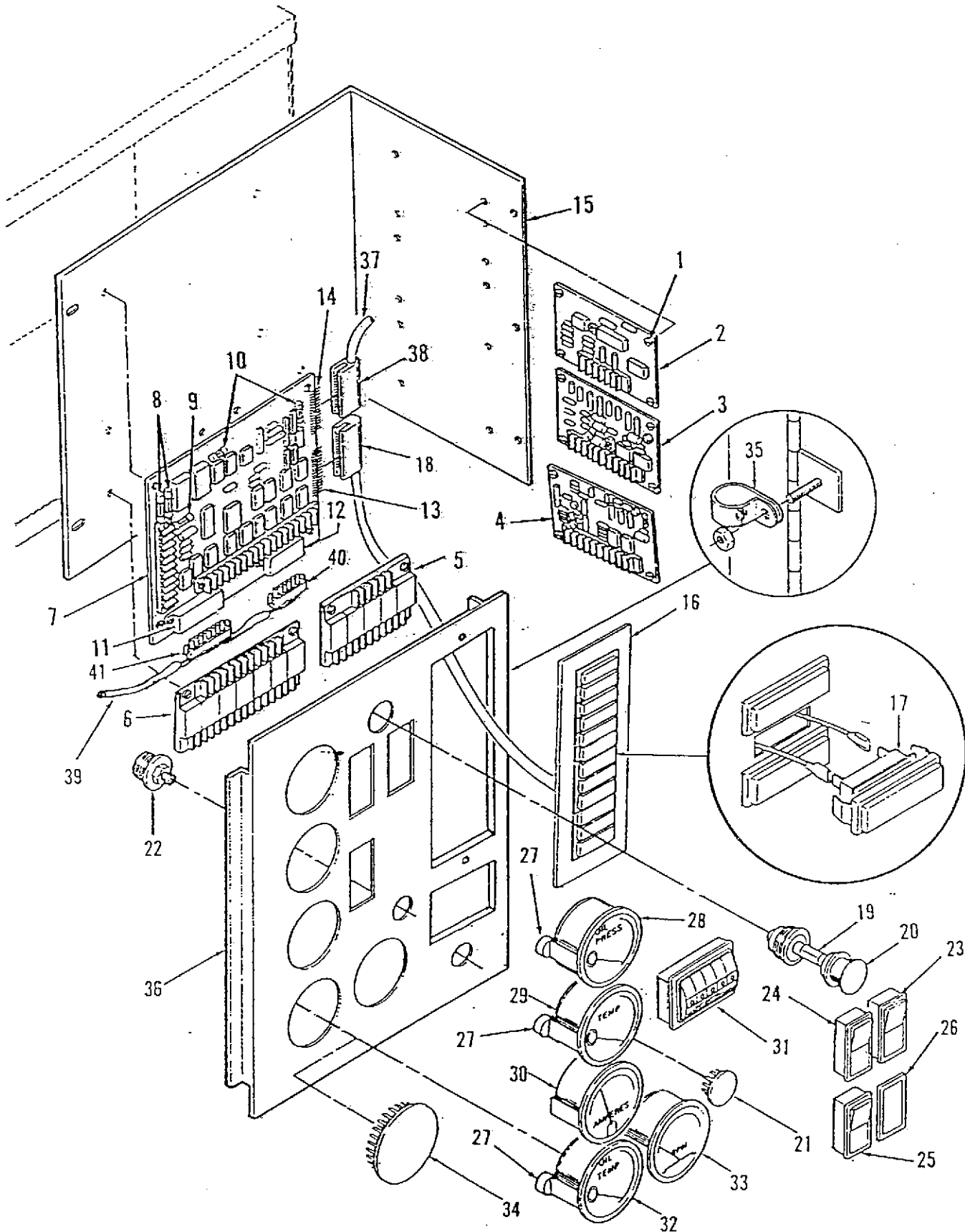


Generator Set Control (With Housing Enclosure)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0005	18	Screw, Self-locking - Hex (#10-32 x 1/2")	11	332-0941	6	Tie, Cable
2	NFS	3	Panel, Box - Control	12			Transformer, Current - Recon- nectible
3	812-0156	4	Screw, Machine - Round Head (1/4-20 x 1/2")		302-1794-11	3	750/1500:5 Ratio; 500kW & 600kW Voltage Code H.
4	850-0040	4	Washer, lock - Spring (1/4")		302-1794-12	3	1000/2000:5 Ratio; 440kW & 550kW Voltage Code Z, 500kW Voltage Code L.
5	NFS	1	Transformer Assy, Potential (See Separate Page for Components)		302-1794-13	3	1500/3000:5 Ratio; 600kW Voltage Code L.
6	800-0051	4	Screw, Cap - Hex Head. (5/16-18 x 1/2")	13	508-0051	1	Grommet
7	850-0045	4	Washer, Lock - Spring (5/16")	14	870-0212	6	Nut, Self-locking - Hex
8	NFS	1	Control, Set (See item 9 & 10 for Components)	15	821-0018	6	Screw, Self-locking - Hex Head (1/4-20 x 5/8")
9	NFS	1	Control, Engine (See Separate Page for Components)	16	NFS	1	Housing, Control
10	NFS	1	Control, Generator (See Sep- arate Page for Components)	17	NFS		Adapter, Housing to Terminal Box

NFS - Not For Sale

Engine Control Components (Sets with Housing Enclosure)

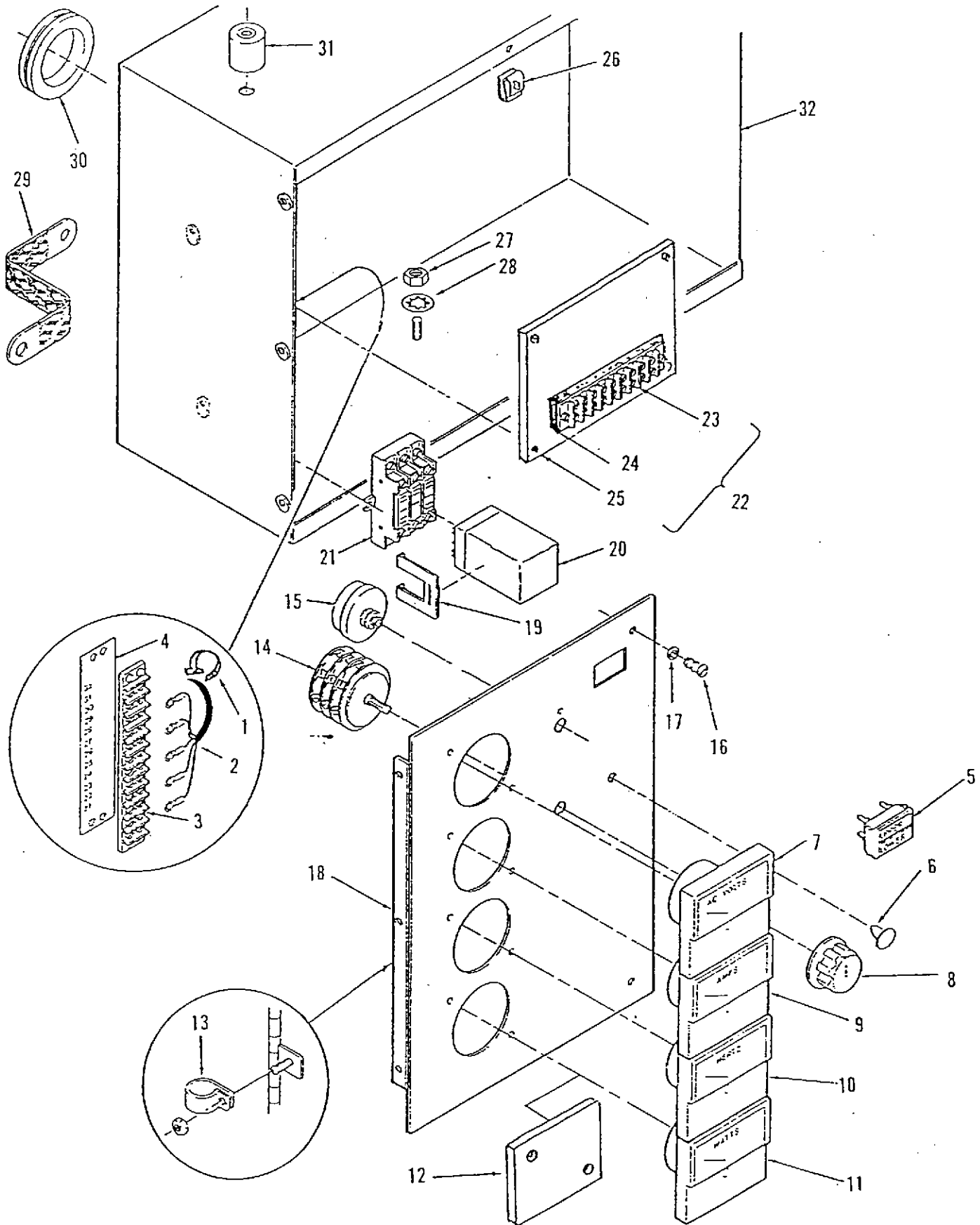


**Engine Control Components
(Sets with Housing Enclosure)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0544	24	Screw, Machine - Round Head With IT Lock Washer (#6-32 x 1/2")	17	322-0369-02	12	Lamp, Incandescent - 1/3 Watt 28 VDC
2	300-2899	1	Board, Time Delay, Start/Stop - 24 VDC (A15)	18	323-1310	1	Housing, 13 Pin (J3)
3			Board, Magnetic Sensor, Start Disconnect/Over Speed Sensor (A16)	19	322-0017	1	Contact, Pin
	300-2903	1	Standard	20	322-0361	1	Lamp, Incandescent - 28 VDC (DS11)
	300-2904	1	Precision	21	517-0131	1	Holder, Lamp
4	300-2906	1	Board, Over-Under Voltage Sensor - 24 VDC (A17)	22	303-0280	1	Plug, Button
5	300-2856	1	Board, Relay - 24 VDC (A13)	23	308-0785	1	Potentiometer (R11)
6	300-2863	1	Board, Relay - 24 VDC (A14)	24	308-0784	1	Switch, Push (S11)
7			Board, Engine Monitor (A11) (Includes Fuses and Connectors)	26	301-6257	1	Switch, Push (S12)
	300-2808	1	24 VDC, 2 Light	27	193-0250	3	Cover
	300-2812	1	24 VDC, 12 Light	28	193-0352	1	Resistor, Gauge (R12)
8	321-0270	2	Fuse, Cartridge - 20 Amp (F1, F2)	29	193-0351	1	Gauge, Pressure - Oil (M11)
9	321-0231	1	Fuse, Cartridge - 15 Amp (F3)				Gauge, Temperature - Water (M12)
10	321-0094	2	Fuse, Cartridge - 5 Amp (F4, F5)	30	302-1790	1	Ammeter (M13)
11	323-1305	1	Connector, 8 Pin (P1)	31	302-0885	1	Meter, Totalizing - Time (M14)
12	323-1303	1	Connector, 6 Pin (P2)		815-0385	2	Screw, Machine - Round Head (#6-31 x 1/2")
13	323-1309	1	Connector, 13 Pin (P3)		870-0183	2	Nut, Hex with ET Lockwasher (#6-32)
14	323-1307	1	Connector, 12 Pin (P4)	32	193-0330	1	Gauge, Temperature - Oil (M15)
15	NFS	1	Bracket, Mounting	33	302-1873-01	1	Tachometer (M16)
	821-0004	4	Screw, Self-locking - Hex Hd (#10-32 x 5/16")	34	517-0221	1	Plug, Button
16			Module, Indicator - Fault (Includes replaceable lamps, Harness with connector housing & contact pins)(A12)	35	332-0052	1	Clamp, Loop
	322-0358-02	1	24 VDC, 2 Light		870-0131	1	Nut, Hex with ET Lockwasher (#10-32 x 1/2")
	322-0360-02	1	24 VDC, 12 Light	36	NFS		Door, Control
	815-0385	2	Screw, Machine - Round Head (#6-32 x 1/2")	37	338-1817	1	Harness, Wiring - DC Meter (Includes Connector & Pins)
	870-0183	2	Nut, Self-locking - Hex (#6-32)	38	323-1308	1	Housing, 12 Pin (J4)
					323-1302	12	Contact, Pin
				39	338-2168	1	Harness, Wiring - Control to Engine (Includes Connectors and Pins)
				40	323-1304	1	Housing, 6 Pin
					323-1200	6	Contact, Pin
				41	323-1306	1	Housing, 8 Pin
					323-1200	8	Contact, Pin

NFS - Not For Sale

Generator Control Components (Sets with Housing Enclosure)

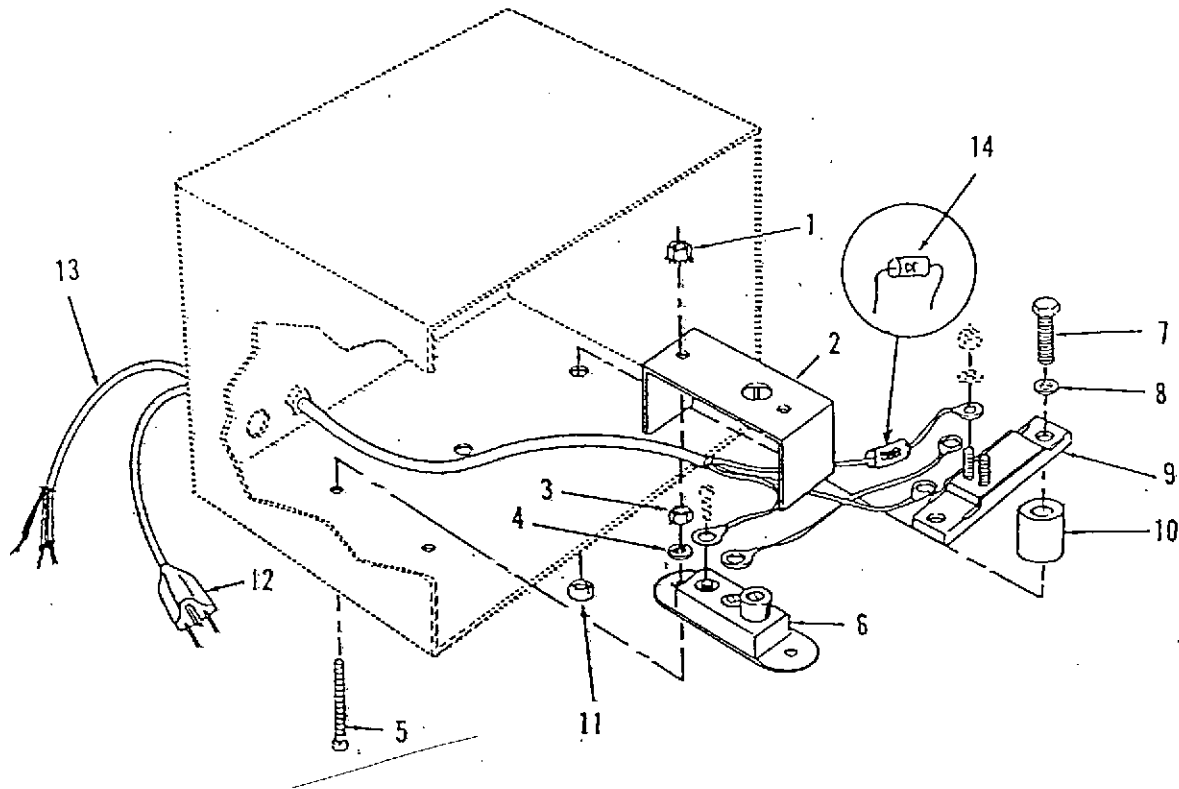


Generator Control Components (Sets with Housing Enclosure)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-1445	2	Tie, Cable	14	308-0284	1	Switch, Rotary (S21)
2			Harness, Wiring	15	303-0261	1	Rheostat (R21)
	338-1818	1	Control with Meters (Includes Terminal Block)	16	406-0334	2	Clip, Fastener
	338-1853	1	Control without Meters	17	406-0333	2	Stud, Fastener
	812-0065	2	Screw, Machine - Round Head (#6-32 x 5/8")	18	NFS	1	Door, Control
3	332-0607	1	Block, Terminal (TB1)		821-0004	3	Screw, Self-locking - Hex (#10-32 x 5/16")
4	332-2723	1	Strip, Marker	19	307-1987	2	Clip, Relay
5	322-0363	1	Light, Indicator - Dual (DS21, DS22)	20	307-1056	1	Relay, 24 VDC (K21)
6	517-0131	1	Plug, Button	21	323-0804	1	Socket, Relay
7			Voltmeter (M21)		815-0544	2	Screw, Machine - Round Head with IT Lock Washer (#6-32 x 1/2")
	302-1148	1	Dual Scale 0-300/0-600V	22	NFS	1	Terminal Board Assembly
	302-1753	1	Single Scale 0-750V		812-0065	4	Screw, Machine - Round Head (#6-32 x 5/8")
8	303-0032	1	Knob	23	332-0751	1	Block, Terminal
9			Ammeter (M22)		812-0066	2	Screw, Machine - Round Head (#6-32 x 3/4")
			Single Scale Voltage Code H	24	332-0853	1	Strip, Marker
	302-1731	1	500 & 600kW, 0-750 Amp	25	NFS	1	Plate
			Dual Scale Voltage Code Z	26	406-0332	2	Receptacle, Fastener
	302-1798	1	440 & 550kW, 0-1000/0-2000 Amp, all voltages	27	871-0015	1	Nut, Hex (1/4-20)
			Dual Scale Voltage Code L	28	853-0013	1	Washer, Lock - ET (1/4")
	302-1798	1	500kW, 0-1000/0-2000 Amp, all voltages	29	337-0049	1	Strap, Electrical (Ground)
			600kW, 0-1500/0-3000 Amp, all voltages		800-0024	1	Screw, Cap - Hex Head (5/16-18 x 1/2")
10	302-1720	1	Meter, Frequency (M23)		856-0008	1	Washer, Lock - EIT (5/16")
11		1	Wattmeter (M24) (See Separate page for Components)	30	508-0051	1	Grommet
12	NFS	1	Cover, Meter Hole	31	402-0527	2	Mount, Vibration
	815-0385	2	Screw, Machine - Round Head, Black (#6-32 x 1/2")		800-0051	4	Screw, Cap - Hex Head (5/16-18 x 1/2")
	870-0183	2	Nut, Hex with ET Lockwasher (#6-32)		850-0045	4	Washer, Lock - Spring (5/16")
13	332-0052	1	Clamp, Loop	32	NFS	1	Box, Control
	870-0131	1	Nut, Self-locking - Hex with ET Lock Washer (#10-32)				

NFS - Not For Sale

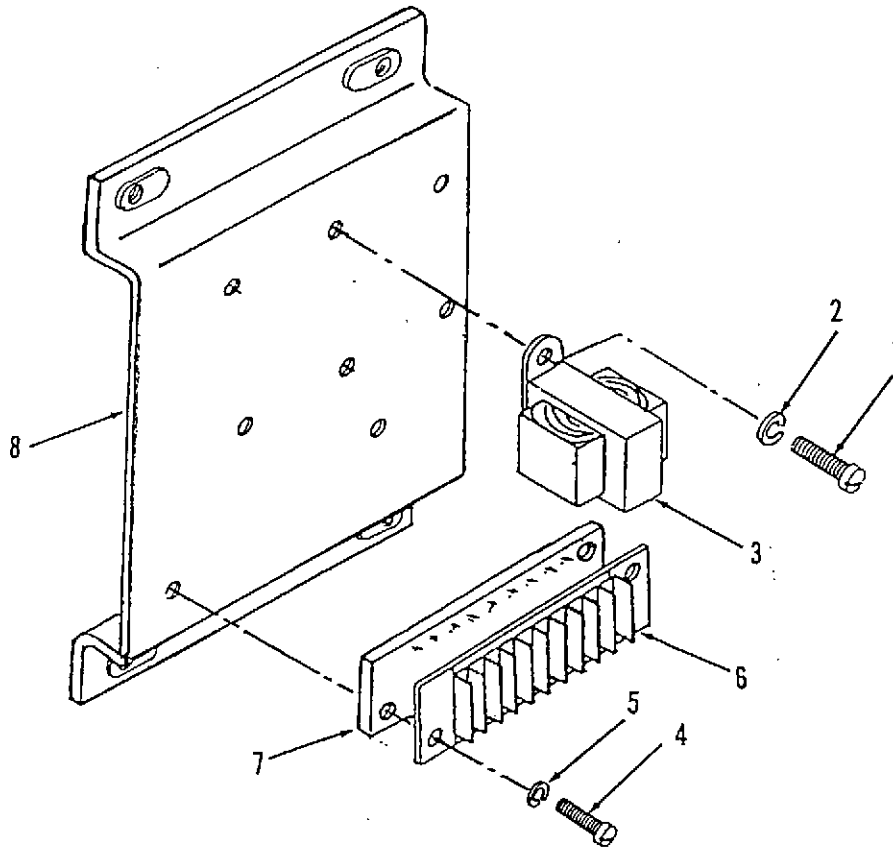
Control Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0183	2	Nut, Self-locking - Hex (#6-32)
2	301-1886	1	Cover
3	860-0006	1	Nut, Hex (#6-32)
4	854-0006	2	Washer, Lock - IT (#6)
5	812-0070	2	Screw, Machine - Round Head (#6-32 x 1-1/4")
6	309-0128	1	Thermostat, Adjustable
7	800-0034	2	Screw, Cap - Hex Head (5/16-18 x 2-1/4")
8	526-0113	2	Washer, Flat (5/16")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	333-0151	1	Heater, Electrical 120VAC
	333-0378	1	240VAC
10	130-1107	2	Spacer
11	870-0257	2	Nut, Self-locking - Hex (5/16-18)
12	335-0161	1	Cable, Electrical (120VAC Application)
13	338-2121	1	Harness Wiring with Diode, less plug (240VAC Application)
14	357-0013	1	Diode
15	98-3232	1	Decal, Warning - Shock Hazard (Not Illustrated)

Potential Transformer

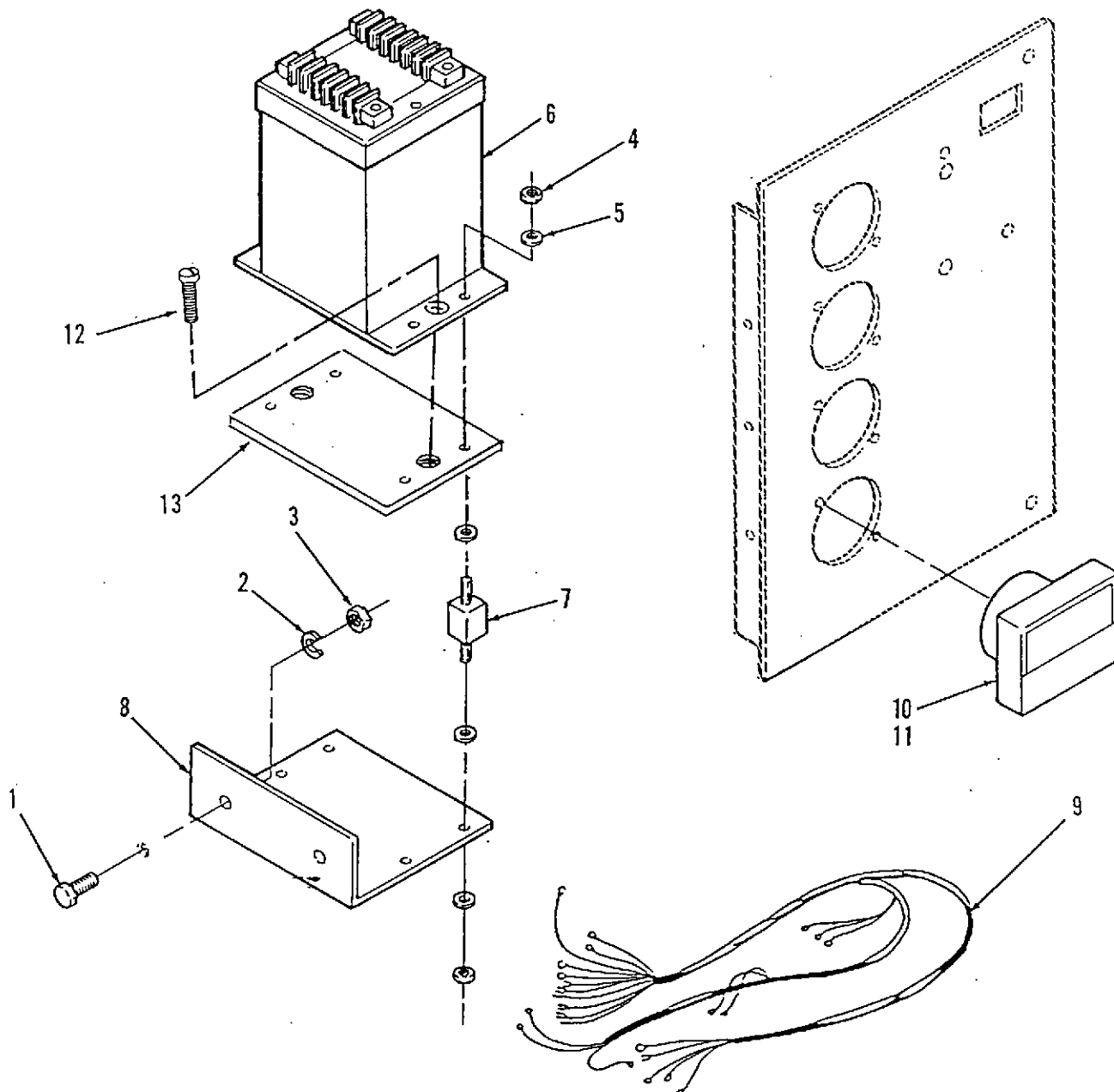


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	812-0079	6	Screw, Machine - Round Head (#8-32 x 1/2")
2	850-0025	6	Washer, Lock - Spring (#8)
3	315-0642	3	Transformer, Potential
4	812-0077	2	Screw, Machine - Round Head (#8-32 x 3/8")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	850-0025	2	Washer, Lock - Spring (#8)
6	332-2562	1	Block, Terminal (10 Place)
7	332-2563	1	Strip, Marker
8	NFS	1	Bracket, Mounting

NFS - Not For Sale

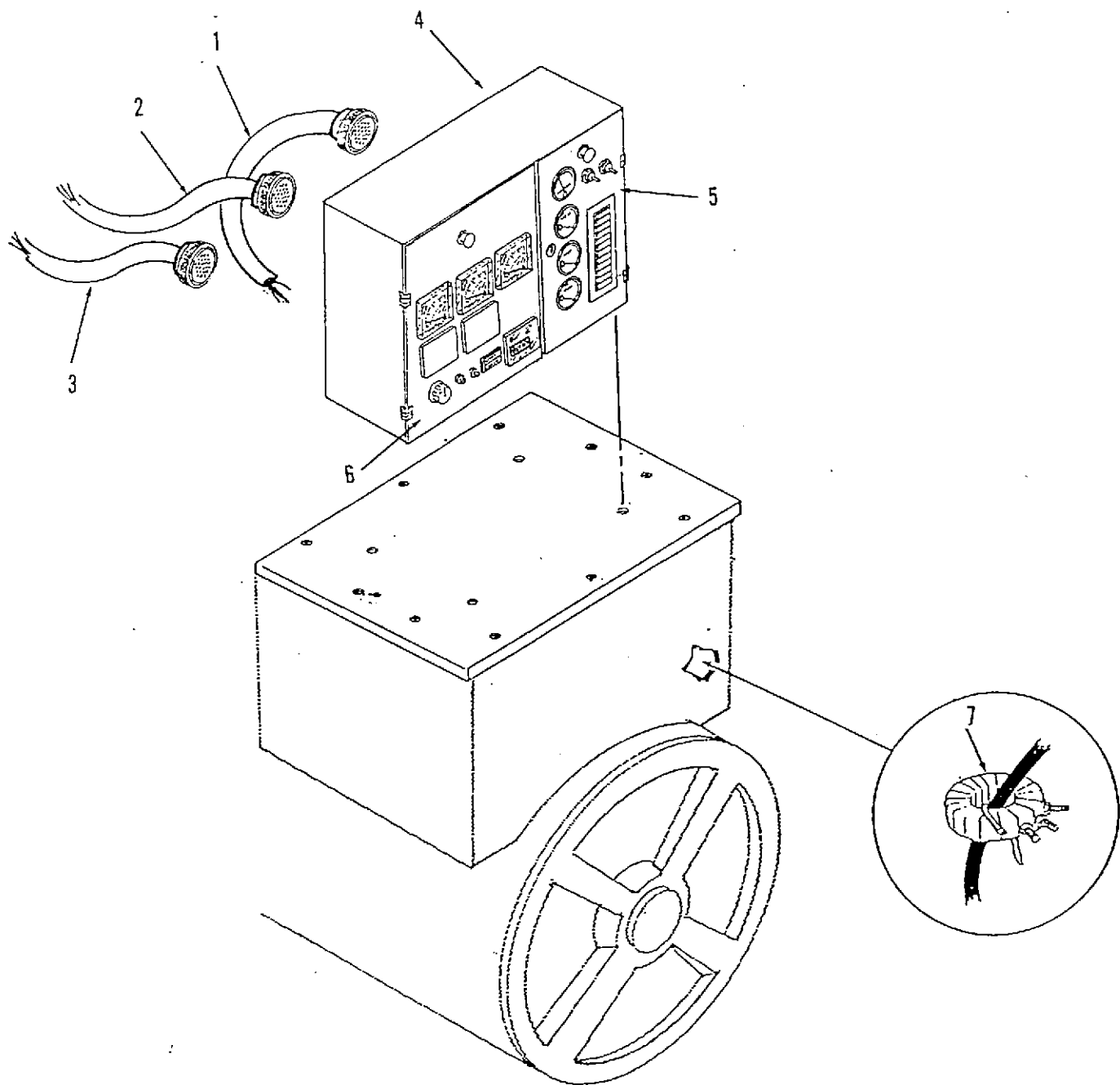
Wattmeter
(Sets with Housing Enclosure)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0017	2	Screw, Cap - Hex Head (5/16-18 x 1/2")
2	850-0045	2	Washer, Lock (5/16)
3	862-0014	2	Nut, Hex (5/16-18)
4	860-0008	8	Nut, Hex (#8-32)
5	856-0002	16	Washer, Lock - ET (#8)
6	302-1833-01	1	Transducer, Watt
7	402-0354	4	Mount, Shock

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	301-6987	1	Bracket, Mounting
9	338-1936	1	Harness, Wiring
10	302-1722	1	Wattmeter (Less Dial)
11			Dial, Wattmeter
	302-1721-14	1	Scale 0-600 kW
	302-1721-15	1	Scale 0-700 kW
12	813-0102	2	Screw, Machine - Round Head (#10-32 x 3/8")
13	319-0030	1	Plate, Support - Transducer

Generator Set Control
(Without Housing Enclosure)

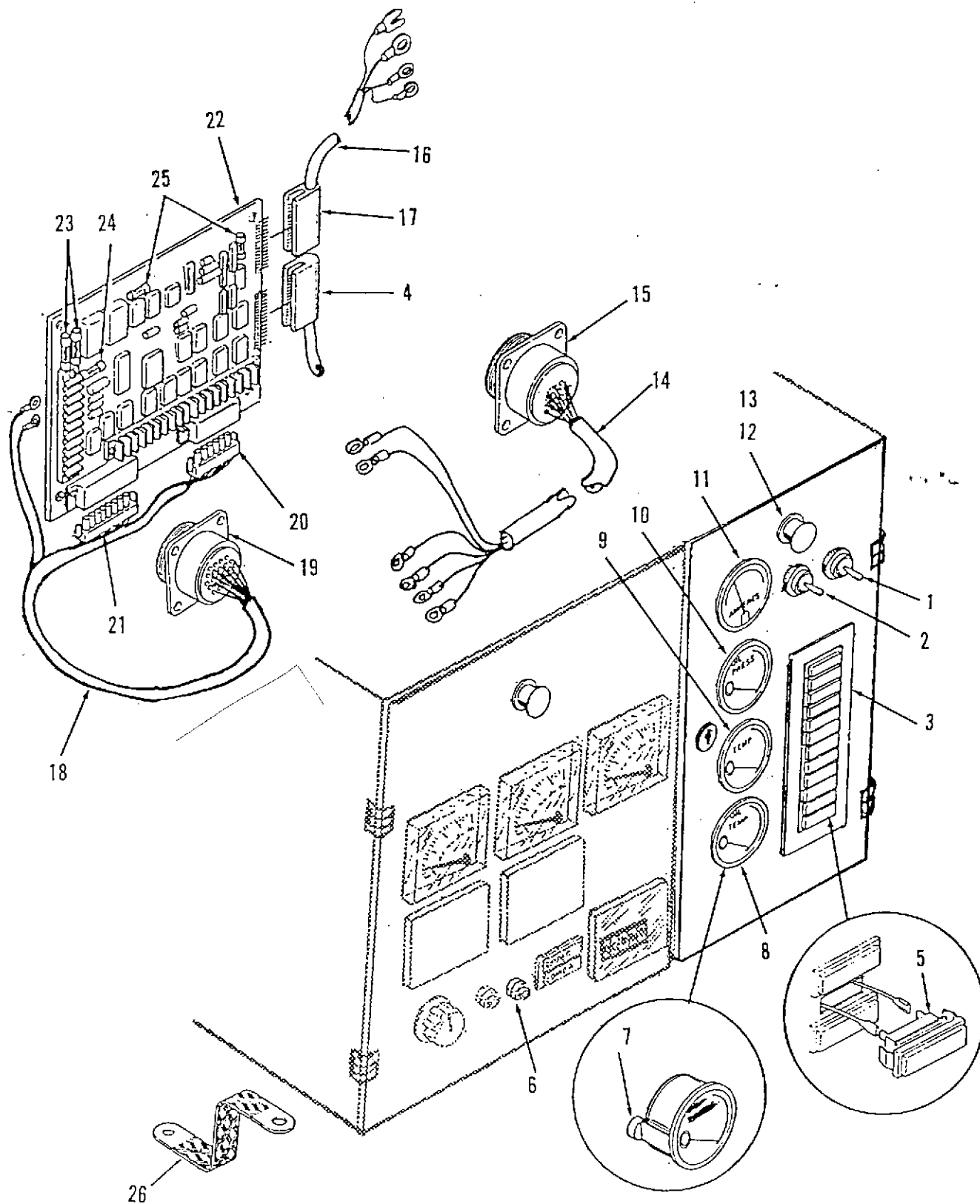


Generator Set Control
(Without Housing Enclosure)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-2200-01	1	Harness, Wiring - Control to Generator (Includes a connector Housing)	7			Transformer, Current (Select As Applicable)
	323-1135	1	Housing, Connector (J21)		302-1785-01	3	1200:5 Ratio
	323-1193	4	Contact, Pin		302-1785-02	3	1500:5 Ratio
	323-1194	10	Contact, Pin		302-1785-03	3	1600:5 Ratio
2	338-2197-01	1	Harness, Wiring - Control to Governor (Includes a connector housing)		302-1785-04	3	2000:5 Ratio
	323-1135	1	Housing, Connector (J12)		302-1785-05	3	2500:5 Ratio
	323-1193	4	Contact, Pin		302-1785-06	3	2000:5 Ratio (380V Only)
	323-1194	10	Contact, Pin		302-1785-07	3	3000:5 Ratio
3	338-2192-01	1	Harness, Wiring - Control to Engine Components (Includes a connector housing)		302-1785-08	3	4000:5 Ratio
	323-1206	1	Housing, Connector (J11)		302-1785-09	3	5000:5 Ratio
	323-1194	20	Contact, Pin		302-1786-01	3	500/1000:5 Ratio
4	NFS	1	Control, Set (See item 5 & 6 for Components)		302-1786-02	3	600/1200:5 Ratio
			Attaching Parts for Control		302-1786-03	3	750/1500:5 Ratio
	402-0527	4	Mount, Vibration		302-1786-04	3	800/1600:5 Ratio
	800-0051	8	Screw, Cap - Hex Head (5/16-18 x 1/2")		302-1786-05	3	900/1800:5 Ratio
	850-0045	8	Washer, Lock - Spring (5/16")		302-1786-06	3	1000/2000:5 Ratio
5	NFS	1	Control, Engine (See Separate		302-1786-07	3	1200/2400:5 Ratio
6	NFS	1	Control, Generator (See Sep- arate Page for Components)		302-1786-08	3	250/500:5 Ratio
					302-1786-09	3	300/600:5 Ratio
					302-1786-10	3	400/800:5 Ratio
					302-1786-11	3	375/750:5 Ratio
					302-1786-12	3	75/150:5 Ratio
					302-1786-13	3	100/200:5 Ratio
					302-1786-14	3	150/300:5 Ratio
					302-1786-15	3	200/400:5 Ratio
					302-1786-16	3	1500/3000:5 Ratio

NFS - Not For Sale

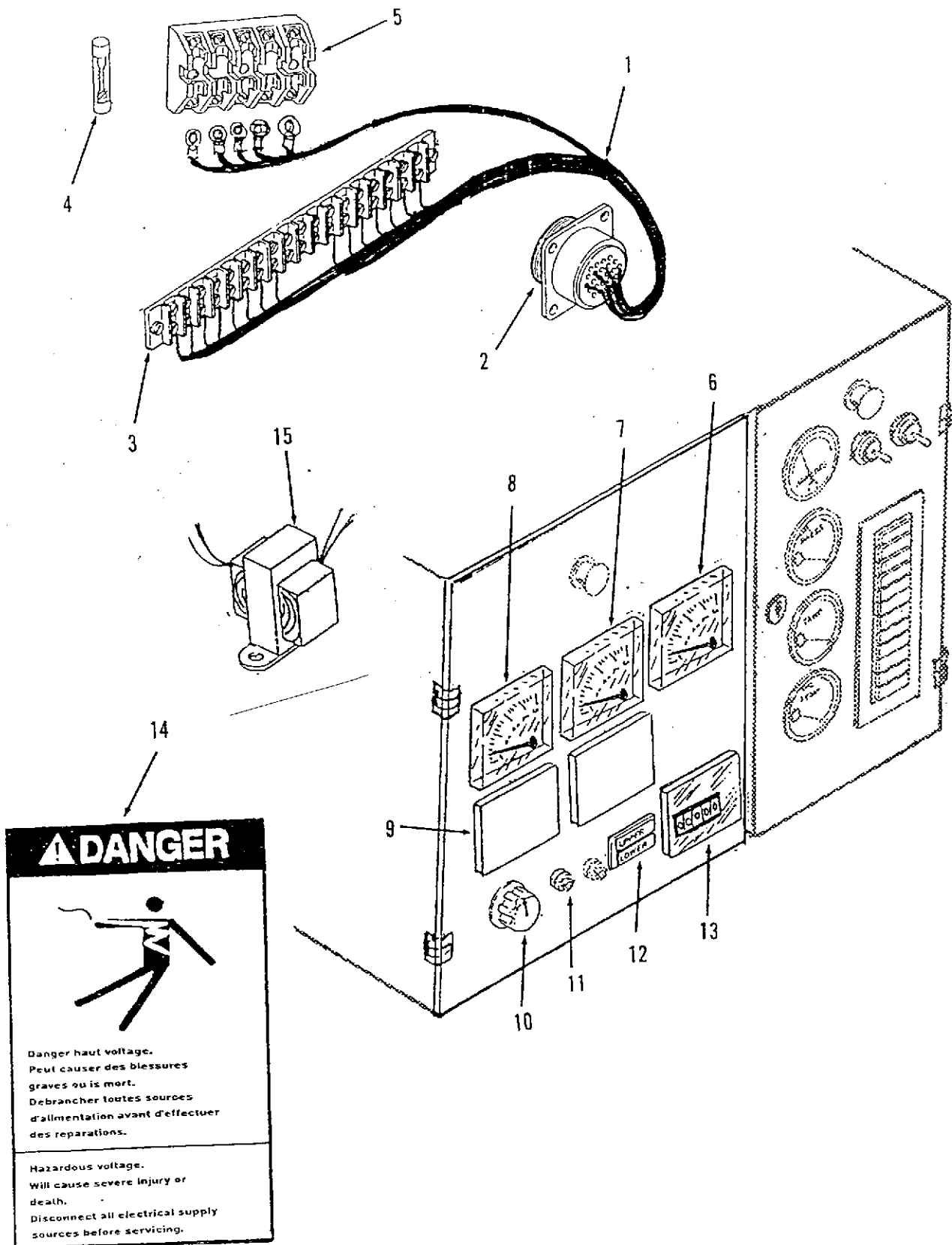
Engine Control Components (Sets without Housing Enclosure)



Engine Control Components (Sets without Housing Enclosure)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	308-0625	1	Switch, Push (S12) [Run/Stop/Remote]	15	323-1134	1	Housing, Connector (P12)
2	308-0900	1	Switch, Push (S11) [Reset/Panel Light]		323-1192	4	Contact, Socket
3			Module, Indicator - Fault (Includes Harness with a Connector Housing & Contact Pins, Replaceable Lamps) (A12)		323-1195	10	Contact, Socket
	322-0358-02	1	24 VDC, 2 Light		323-1190	2	Key
	322-0360-02	1	24 VDC, 12 Light	16	338-1817	1	Harness, Wiring - Engine Monitor Board to Meters (Includes Connector Housing)
	815-0385	2	Attaching Parts for Module Screw, Machine - Round Head (#6-32 x 1/2")	17	323-1308	1	Housing, Connector (J4)
	870-0183	2	Nut, Self-locking - Hex (#6-32)		323-1302	15	Contact, Pin
4	323-1310	1	Housing, Connector (J3)	18			Harness, Wiring - Engine to Engine Monitor Board (Includes Connector Housings, Terminals and Contacts)
	323-1302	13	Contact, Pin		338-2241-01	1	Control with 2 Light Module
5	322-0369-02	1	Lamp, Incandescent - 1/3 Watt 28 VDC		338-2200-01	1	Control with 12 Light Module
6	303-0290	1	Rheostat - Speed Control (R23)	19	323-1207	1	Housing, Connector (P11)
7	193-0250	3	Resistor, Gauge (R11,R12,R15)		323-1195	22	Contact, Socket
8	193-0330	1	Gauge, Temperature - Oil, 12 VDC (M15) or		323-1190	1	Key
	302-1715	1	Tachometer (M16) or	20	323-1304	1	Housing, Connector (J2)
	302-1723	1	Gauge, Blank		323-1200	6	Contact, Pin
9	193-0351	1	Gauge, Temperature - Water, 12 VDC (M12)	21	323-1306	1	Housing, Connector (J1)
10	193-0352	1	Gauge, Pressure - Oil, 12 VDC (M11)		323-1200	8	Contact, Pin
11	302-1790	1	Ammeter (M13)	22			Board, Engine Monitor (A11) (Includes Fuses)
12	322-0017	1	Lamp, Incandescent - 28 VDC (OS10,OS11)		300-2808	1	24 VDC, 2 Light
13	322-0361	2	Holder, Lamp		300-2812	1	24 VDC, 12 Light
14			Harness, Wiring - Governor to Speed Control & Tachometer (Includes Connector Housing)	23	321-0270	2	Fuse, Cartridge - 20 Amp (F1, F2)
	338-2279-01	1	Control with 2 Light Module	24	321-0231	1	Fuse, Cartridge - 15 Amp (F3)
	338-2290-01	1	Control with 12 Light Module	25	321-0094	2	Fuse, Cartridge - 5 Amp (F4, F5)
					815-0544	4	Attaching Parts for Module Screw, Machine - Round Head With IT Lock Washer (#6-32 x 1/2")
				26	337-0049	1	Strap, Electrical - Ground

Generator Control Components (Sets without Housing Enclosure)



Generator Control Components (Sets without Housing Enclosure)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring (Includes Connector and Terminal Strip)		302-1839-09	1	0-300/0-600 Amp
	338-2280-01	1	Sets with 12 Lead Generator		302-1839-10	1	0-400/0-800 Amp
	338-2281-01	1	Sets with 6 Lead Generator		302-1839-11	1	0-375/0-750 Amp
2	323-1134	1	Housing, Connector (P21)		302-1839-12	1	0-75/0-150 Amp
	323-1192	4	Contact, Socket		302-1839-13	1	0-100/0-200 Amp
	323-1195	10	Contact, Socket		302-1839-14	1	0-150/0-300 Amp
	323-1190	1	Key		302-1839-15	1	0-200/0-400 Amp
3		1	Terminal, Strip (18 Place)		302-1839-16	1	0-1500/0-3000 Amp
4	321-0293	5	Fuse F1 thru F5		302-1839-17	1	0-2000/0-4000 Amp
5	321-0294	1	Holder, Fuse		302-1840-01	1	0-1200 Amp
6	302-1842	1	Meter, Frequency (M23)		302-1840-02	1	0-1500 Amp
7	302-1841-03	1	Voltmeter (M21)		302-1840-03	1	0-1600 Amp
8			Ammeter (M22)		302-1840-04	1	0-2000 Amp
			Dual Scale		302-1840-05	1	0-2500 Amp
	302-1839-01	1	0-500/0-1000 Amp		302-1840-07	1	0-3000 Amp
	302-1839-02	1	0-600/0-1200 Amp		302-1840-08	1	0-4000 Amp
	302-1839-03	1	0-750/0-1500 Amp		302-1840-09	1	0-5000 Amp
	302-1839-04	1	0-800/0-1600 Amp	9	302-1849	2	Meter, Blank
	302-1839-05	1	0-900/0-1800 Amp	10	308-0883	1	Switch, Rotary (S21)
	302-1839-06	1	0-1000/0-2000 Amp	11	303-0287	1	Rheostat (R21)
	302-1839-07	1	0-1200/0-2400 Amp	12	322-0363	1	Light, Indicator - Dual (DS21, DS22)
	302-1839-08	1	0-250/0-500 Amp	13	302-1850	1	Meter, Time Totalizing (M14)
				14	98-5724	2	Decal (Warning)
				15	315-0664	3	Transformer, Potential (T21 - T23)
		-cont-					



Onan Corporation
1400 73rd Avenue N.E.
Minneapolis, MN 55432
1-800-888-ONAN
612-574-5000 International Use
Telex: 275477
Fax: 612-574-8087

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