

General Information

For parts or service, contact the distributor from whom you purchased this equipment or refer to the nearest Authorized Cummins Distributor.

To avoid errors or delays in filling your parts order, always give the full MODEL, SERIAL and ID No. from the nameplate.

For handy reference, itser "YOUR" nameplate information is the spaces below.



AC Generator Set Model_____

kw	kva	pf phase
voltage		amps
duty		overload
rpm		hz
class of	insulation	🔪 pmg voltage 🔬
field am) max	field voltage max
generator	model no.	· · · · · · · · · · · · · · · · · · ·
voltage i	regulator model no	
ID no		· · · · · · · · · · · · · · · · · · ·
generator	set serial no.	
BS5000		NEMA



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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 the description column the parts are interchangeable between models.

These typical illustrations are subject to change and reflect only the latest replace ment parts arrangement. The Right and Left sides of the Set are determined by FACING the FRONT (Engine end) of the Set. 6

Set Data Table

MODEL IDENTIFICATION	RATING	RPM RATING	BATTERY	VOLTAGE
330.0D_EB - */ # 0 400.0D_EB - */ # 0 400.0D_FA - */ # 0 450.0D_FA - */ # 0	330,000 WATTS 400,000 WATTS 400,000 WATTS 450,000 WATTS	1500 RPM 1800 RPM 1500 RPM 1800 RPM	24 24	VDC VDC VDC 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.

E 1	ect	tri	ica	1 ·	Data	Table
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*VOLTAGE CODE	VOLTS	HERTZ	WIRE	PHASE	NOTES
н	347/600	60	4	3	· ·
· L · ·	120/208	60	12	3	•
-	127/220	60	12	.3	· · ·
	139/240	60	12	3	1 .
	240/416	60	12	3	
	254/440	60	12	3	l.
	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	1
	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 ha been identified in this Parts Manual. For Internal Engine Parts and External Engine Assessories not covered herein; refer to the applicable Cummins Engine Parts Catalog



Power

Generation

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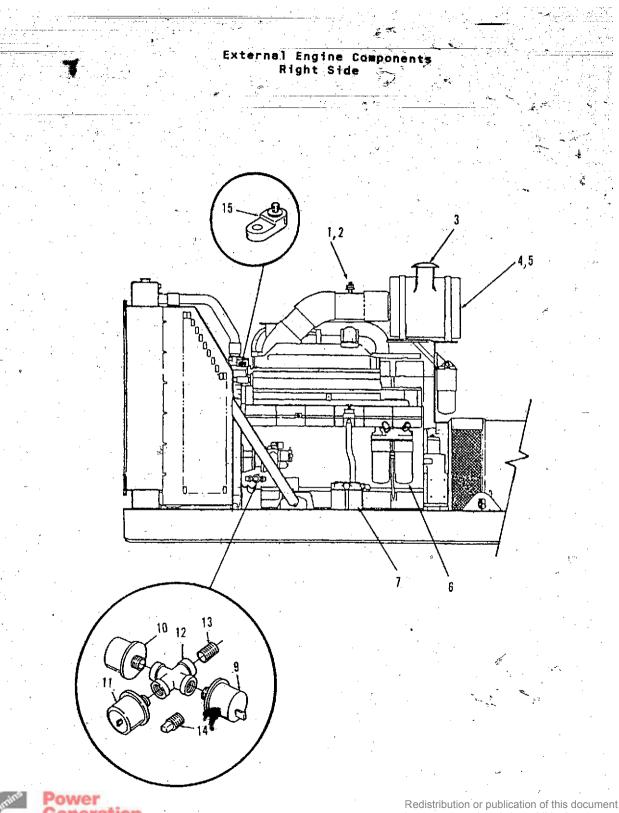
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Generation

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		GRID		GRID
			C C	_,
	Adepter, Generator	F14	Light, Indicator	G7, G17
	Ammeter - AC	G9, G19		
	Ammeter - DC	G7, G17	Meter, Frequency	G9, G19
		· · ·	Meter, Tach	G7, G17
	Bracket, End - Generator	F12	Meter, Time - Running	G9 G19
	Cable, Battery	E9	Radiator	E9
	Gap, Rediator	E9	Rotor, Exciter	F14
:	Control, Engine	G7, G17		
` <u>*</u> ``	Control, Generator	G9, G19	Sender, Pressure - Oil	. E7
· .	Control, Generator Sat		Sender, Temperature - Low Engine	· E7
	Cooling System	· · E9	Sender, Temperature - Water	E7
· · ·			Stator, Exciter	F12
	Disk, Drive - Generator	• F14	Switch, Overspeed	F25
		·	Switch, Pressure - Low Oil	E7
· · · · · · · · · · · · · · · · · · ·	<u>Gauge, Pressure - Oi</u>]		Switch, Push - Reset/Panel	G7, G17
	Gauge, Temperature - Oil		Switch, Push - Run/Stop/Remote	G7, G17
1997 - S	Gauge, Temperature - Water		Switch, Rotary - Generator Control	G9, G19
	Generator	E9, E10	Switch, Temperature - Hi Water	E9
			-Switch, Temperature - Pre-Water	E9
	Harness, Wiring - Control (AC)	G9, G19	7	or 010
· · ·	Harness, Wiring - Control (DC)		Transformer, Current	G5, G15 G11
	Harness, Wiring - Control To Engine		Transformer, Potential	611
	Rarness, Wiring - Control to Generato Harness, Wiring - Control to Governor			
		-	Valtastas	G17, G19
·	Harness, Wiring - Meter to Eng Monito Harness, Wiring - Speed Control to Ja	ick G17	VOICINGERF . 07,03,	017.012
	Harness, Wiring - Suse Block to Jack		Wattmeter	Gia
1 . J	Heater, Control	G10		0.0
11.14.	Hose, Radiator	E9	· · · · · · · · · · · · · · · · · · ·	
· ·	Housing, Control	. G5		
	news mg, . concrete			

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Generation

External Engine Components Right Side

	REF ND:	PART NO	QTY USED	PART DESCRIPTION	RI		QTY USED	PART DESCRIPTION
÷.,	·	140-2228	1	Indicator, Air Restriction (Includes Fitting)		5 ¹ − 1 − 1	2	Filter, Oil (CEC#3313279)
	- 2	140-1260	1	Fitting.® Male - Hex Cap, Air Cleaner		T _	2	Filter, Fuel with Drain Plug (CEC# 3315847) [FF105D]
-	3	140-1545	1	Outdoor (CEC# 3017003) Heavy Duty (CEC# 3013238	1	309-0272	1,	Switch, Pressure - Oil - Alarr (SS)
. •		140-1345	1	Cleaner, Air Indoor (CEC# 3028847)	10		1	Sender, Pressure - Oil (E1) Switch, Pressure - Oil -
÷	•	140-2301	1	Outdoor (CEC# 3017002) Heavy Duty (CEC# 3056713)	- 13	· ··· ·•	1	Shutdown (S1) Cross, Pipe
	5	140-2301		Element - Indoor/Outdoor (CEC# 3018042) [AF872M]	1:	3 505-0104	1	Nipple, Pipe - Close Plug, Pipe - Square Head
	· · · · ·	· · · · · · · · · · · · · · · · · · ·	1	Elements - Heavy Duty Primary (CEC#3060220)	1		i	Switch, Temperature - Low Engine Temperature (S4)
			1	Secondary (CEC# 3060221)				

NOTES:

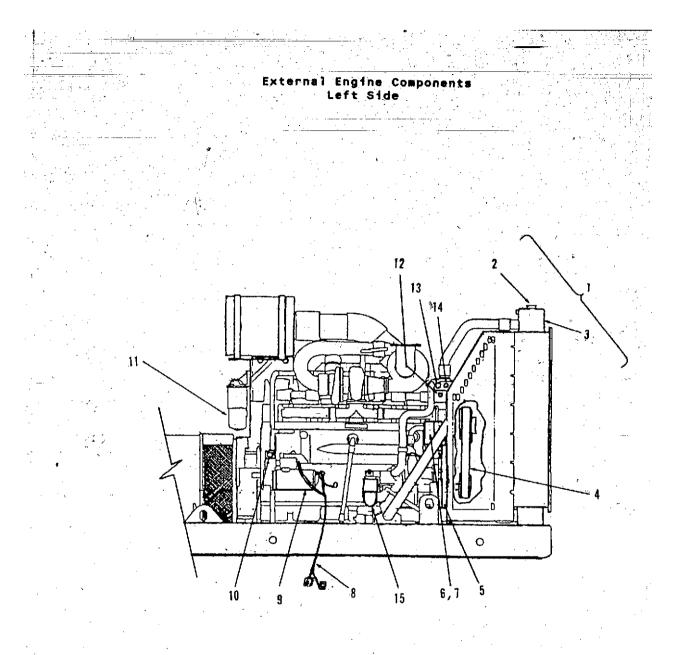
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(CEC#) Numbers in Parans are Cummins Engine Company Identification. [] Numbers in Brackets are fleetwood Inc. Identification.

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Generation

External Engine Components Left Side

6.0

REF PART REF PART USED DESCRIPTION NO. USED DESCRIPTION 1 Ref @Cooling System - Radiator (Select replaceable items as required) 8 Cable, Electrical Ground Ground 1 DESCRIPTION 8 Cable, Electrical Ground Ground 1 DESCRIPTION 416-0632 1 Ground 1 DESCRIPTION 416-0632 1 Battery (Positive) 1 DEB (BEARWARD # 53902-3PA) 416-0636 1 Battery (Jumper) 1 DFA (BEARWARD # 53902-3PA) 10 307-2621-02 1 Switch Angenetic 1 DEB (BEARWARD # 53903-3PA) 12 Switch Angenetic 1 Switch Angenetic 1 DEB (BEARWARD # 53903-3PA) 12 Switch Thermostatic (S6) Switch Angenetic 10 DFA (BEARWARD # 53903-3PA) 12 Switch Angenetic 12 130-3085 2 Hose 130 Sender Angenetic (S6) 100-784 (BEARWARD # 53903-3PA) 12 Sender Angenetic 12 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
(Select replaceable items 416-0632 1 Ground as required) 416-0636 1 Battery (Positive) 1 D EB (BEARWARD # 53902-3PA) 416-0636 1 Battery (Negative) 1 D EB (BEARWARD # 53902-3PA) 416-0639 1 Battery (Vereitive) 1 D EB (BEARWARD # 53902-3PA) 9 191-1586 1 Switch / Magnetic 1 D EB (BEARWARD # 53902-2P) 11 122-0526 1 Filter, 011 - Bypass 1 D EB (BEARWARD # 53903-3PA) 12								
(Select replaceable items 416-0632 1 Ground as required) 416-0636 1 Battery (Positive) 1 D EB (BEARWARD # 53902-3PA) 416-0636 1 Battery (Negative) 1 D EB (BEARWARD # 53902-3PA) 416-0639 1 Battery (Vereitive) 1 D EB (BEARWARD # 53902-3PA) 9 191-1586 1 Switch / Magnetic 1 D EB (BEARWARD # 53902-2P) 11 122-0526 1 Filter, 011 - Bypass 1 D EB (BEARWARD # 53903-3PA) 12	· · · 1			Cooling System - Redistor	. 8	- V - L	•	Cable Electrical
as reguired) 416-0636 1 Battery (Positive) Spec A 416-0639 1 Battery (Negative) 1 D EB (BEARWARD # 53902-3PA) 416-0470 1 Battery (Vesitive) 1 D FA (BEARWARD # 53903-3P) 9 191-1588 1 Stater (24 VDC) 1 D FA (BEARWARD # 53902-2P) 11 122-0326 Filter, 011 - Bypass 1 D EB (BEARWARD # 53903-3PA) 12 Switch Magnetic 1 D EA (BEARWARD # 53903-3PA) 12 Switch Magnetic 1 D FA (BEARWARD # 53903-3PA) 12 Switch Magnetic 1 D EA (BEARWARD # 53903-3PA) 12 Switch Magnetic 1 D EA (BEARWARD # 53903-3PA) 12 Switch Magnetic 1 D EA (BEARWARD # 53903-3PA) 12 Switch Magnetic 1 D FA (BEARWARD # 53903-3PA) 12 Switch Magnetic Switch Magnetic 503-0998 4 Clamp, Hose 309-0436 Switch Magnetic Switch Magnetic 130-3383 2 Tube, Water - Lower 505-0021 Bushing, Reducer - Flush (1/2MPT × 3/6MPT × 1/2MPT) <td< td=""><td></td><td></td><td></td><td></td><td>. •</td><td>416-0632</td><td>• 1</td><td></td></td<>					. •	416-0632	• 1	
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309-0436 1 Switch, Thermostatic (S6) (Prealarm) 503-0525 2 Hose - Upper 505-0117 1 Bushing, Reducer - Flush (1/2NPT x 3/8NPT) 503-0685 2 Hose - Lower 13 Sender & Bushing 503-0885 4 Clamp, Hose 13 Sender, Temperature (E2) 130-3384 2 Tube, Water - Lower 505-0021 Bushing, Reducer (3/4NPT x (1/2NPT) 130-3384 2 Tube, Water - Lower 505-0021 Bushing, Reducer (3/4NPT x (1/2NPT) 3 309-0437 1 Switch, Thermostatic (S2) (Shutdown) (1/2NPT) 3 309-0437 1 Switch, Thermostatic (S2) (Shutdown) (1/2NPT) 309-3283 1 D_FA 505-0117 Bushing, Reducer - Flush (1/2NPT x 3/8NPT) 130-3283 1 D_FA 505-0117 Bushing, Reducer - Flush (1/2NPT x 3/8NPT) 130-3398 1 D_FA 505-0117 Bushing Chemical DCA4 130-3399 1 D_FA Service for 20-40 Gal Cooling System (CEC# 3318157)[WF2070] 5 511-0161 Belt, Drive - Alternator Service for 40-60 Gal Cooling System (CEC# 3318151][WF2071]	1		1				· •	
503-0998 4 Clamp, Hose (Prealarm) 503-0825 2 Hose - Upper 505-0117 1 Bushing, Reducer - Flush 130-3383 2 Tube, Water - Upper 505-0117 1 Bushing, Reducer - Flush 503-0825 4 Clamp, Hose 13 Sender, Temperature (E2) 503-0856 2 Hose - Lower 192-0375 1' Sender, Temperature (E2) 130-3384 2 Tube, Water - Lower 505-0021 1 Bushing, Reducer (3/ANPT x 2 130-3395 1 Cap, Radiator (IO PSI) Switch, Thermostatic (S2) (1/2NPT) 3 Radiator (Excludes Cap) 14 Switch, Thermostatic (S2) (Shutdown) 130-3282 1 D EB 505-0117 1 Bushing, Reducer - Flush 130-3283 1 D FA 505-0117 1 Bushing Correstrict (S2) 130-3398 1 D EB 15 "Filter, Water - W/Corosion" 130-3399 1 D FA Service for 20-40 Gal Cooling 130-3399 1 D FA 1 Service for 40-60 Gal Cooling	•	·				309-0436	1	
503-0625 2 Hose - Upper 505-0117 1 Bushing, Reducer - Flush (1/2MPT x 3/8MPT) 503-0685 4 Clamp, Hose 13 Sender & Bushing 503-0685 2 Hose - Lower 192-0375 Sender & Bushing, Reducer (3/4NPT x (1/2MPT) 130-3384 2 Tube, Water - Lower 505-0021 Bushing, Reducer (3/4NPT x (1/2MPT) 2 130-3385 1 Cap, Radiator (10 PSI) Switch & Bushing 3 Radiator (Excludes Cap) 14 Switch & Bushing, Reducer - Flush (1/2MPT) 3 D-5282 1 D EB Switch & Bushing, Reducer - Flush (1/2MPT) 130-3283 1 D FA 505-0117 1 Bushing, Reducer - Flush (1/2MPT) 130-3283 1 D EB 505-0117 1 Bushing, Reducer - Flush (1/2MPT) 130-3283 1 D EB 505-0117 1 Bushing, Reducer - Flush (1/2MPT x 3/8MPT) 130-3283 1 D FA 505-0117 1 Bushing, Reducer - Flush (1/2MPT x 3/8MPT) 130-3398 1 D E8 10 FA 505-0117 1 Bushing, Reducer - Flush (1/2MPT x 3/8MPT)	. •	503-0998	4	Clamo, Hose				
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503-0885 4 Clamp, Hose 13 Sender & Bushing 503-0885 2 Hose - Lower 192-0375 1 Sender, Temperature (E2) 130-3384 2 Tube, Water - Lower 505-0021 1 Bushing, Reducer (3/4NPT x 2 130-3385 1 Cap, Radiator (10 PSI) 505-0021 1 Bushing, Reducer (3/4NPT x 3 Radiator (Excludes Cap) 14 Switch & Bushing (1/2NPT) 3 SPEC.A 309-0437 1 Switch, Thermostatic (S2) 130-3283 D_EB 505-0117 Bushing, Reducer - flush 130-3398 0_E8 15 *Filter, Water - W/Corosion* 130-3399 D_FA 505-0117 Bushing Chemical DCA4 4 511-0161 Belt, Drive - Fan 1 Service for 20-40 Gal Cooling 5 511-0161 Belt, Drive - Alternator System (CEC# 3318157)[WF2070] 1 6 191-1846-01 Alternator (35 Amp, 24 VDC) 1 Service for 40-60 Gal Cooling 7 130-3317-01 Pulley, Drive 1 Pre-Charging for 20-90 Gal 7 130-3317-01 <td></td> <td></td> <td>2</td> <td></td> <td>St 1.</td> <td></td> <td></td> <td></td>			2		St 1.			
503-0656 2. Hose - Lower 192-0375 1 Sender, Temperature (E2) 130-3384 2 Tube, Water - Lower 505-0021 1 Bushing, Reducer (3/ANPT x (1/2NPT) 2 130-3395 1 Cap, Radiator (IO PSI) 3 (1/2NPT) 3 Radiator (Excludes Cap) 14 Switch, Thermostatic (S2) (Shutdown) 130-3282 1 D_EB 309-0437 1 Switch, Thermostatic (S2) (Shutdown) 130-3283 1 D_FA 505-0117 1 Bushing, Reducer - Flush (1/2NPT x 3/BNPT) 130-3398 1 D_EB 15 *Filter, Water - W/Corosion 130-3399 1 D_FA 505-0117 1 Bushing Cemical DCA4 4 511-0161 1 Belt, Drive - Fan 1 Service for 20-40 Gal Cooling 5 511-0161 1 Belt, Drive - Alternator System (CEC# 3318157)[WF2070] 1 6 191-1846-01 1 Alternator (35 Amp, 24 VDC) 1 Service for 40-60 Gal Cooling 7 130-3317-01 1 Pulley, Drive 1 Pre-Charging for 20-90 Gal 1 </td <td></td> <td></td> <td>4</td> <td></td> <td>13</td> <td></td> <td></td> <td></td>			4		13			
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2 130-3395 1 Cap, Radiator (10 PSI) Radiator (Excludes Cap) 14 Switch & Bushing 3 SPEC A 309-0437 1 Switch & Bushing 130-3282 1 D EB (Shudown) 130-3283 1 D FA 505-0117 Bushing, Reducer - flush 130-3283 1 D FA 505-0117 Bushing, Reducer - flush 130-3398 1 D E8 15 "Filter, Water - W/Corosion" 130-3399 1 D FA 15 "Filter, Water - W/Corosion" 130-3399 1 D FA 15 "Filter, Water - W/Corosion" 130-3399 1 D FA 15 "Filter, Water - W/Corosion" 130-3399 1 D FA Service for 20-40 Gal Cooling 5 511-0161 1 Belt, Drive - Alternator System (CEC# 3318157)[WF2070] 6 191-1846-01 1 Alternator (35 Amp, 24 VDC) 1 Service for 40-60 Gal Cooling 7 130-3317-01 1 Pulley, Drive 1 Pre-Charging for 20-90 Gal 1 Pre-Charging for 20-90 Gal Cooling System (CEC# 3318319)	. '		2				ī	
3 Radiator (Excludes Cap) 14 Switch & Bushing 309-0437 309-0437 Switch, Thermostatic (S2) 130-3282 0 EB (Shutdown) 130-3283 0 FA 505-0117 Bushing, Reducer - flush 130-3398 1 0 FA 505-0117 Bushing, Reducer - flush 130-3398 1 0 EB (1/2NPT x 3/BNPT) 130-3399 1 0 FA 15 *Filter, Water - W/Corosion 130-3399 1 0 FA Inhibiting Chemical DCA4 Service for 20-40 Gal Cooling 5 511-0161 1 Belt, Drive - Alternator System (CEC# 3318157)[WF2070] System (CEC# 3318157)[WF2071] 6 191-1846-01 1 Alternator (35 Amp, 24 VDC) 1 Service for 40-60 Gal Cooling System (CEC# 331516)[WF2071] 7 130-3317-01 Pulley, Drive 1 Pre-Charging for 20-90 Gal Cooling System (CEC# 3318319)	. 2		— <u> </u>					
SPEC A 309-0437 Switch, Thermostatic (S2) (Shutdown) 130-3282 1 D_EB (Shutdown) 130-3283 1 D_FA 505-0117 Bushing, Reducer - Flush (1/2NPT x 3/BNPT) 130-3398 1 D_EB 15 *Filter, Water - W/Corosion Inhibiting Chemical DCA4 4 511-0161 Belt, Drive - Fan 1 Service for 20-40 Gal Cooling System (CEC# 3318157)[WF2070] 5 130-3317-01 Pulley, Drive 1 Service for 40-60 Gal Cooling System (CEC# 3318157)[WF2071] 7 130-3317-01 Pulley, Drive 1 Service for 20-90 Gal Cooling System (CEC# 33181516)[WF2071]	3	7.7	N (1)		14			
130-3282 1 D_EB (Shutdown) 130-3283 1 D_FA 505-0117 Bushing, Reducer - flush 130-3283 1 D_FA 505-0117 Bushing, Reducer - flush 130-3298 1 D_FA 15 "Filter, Water - W/Corosion" 130-3399 1 D_FA 15 "Filter, Water - W/Corosion" 130-3399 1 D_FA 15 "Filter, Water - W/Corosion" 4 511-0162 1 Belt, Drive - Fan 1 Service for 20-40 Gal Cooling 5 511-0161 1 Belt, Drive - Alternator System (CEC# 3318157)[WF2070] 6 191-1846-01 1 Alternator (35 Amp, 24 VDC) 1 Service for 40-60 Gal Cooling 7 130-3317-01 1 Pulley, Drive System (CEC# 331516)[WF2071] 1 1 Pre-Charging for 20-90 Gal Cooling System (CEC# 3318319) CeC# 3318319)		· ·	9		-	309-0437	1	
130-3283 1 DFA 505-0117 1 Bushing, Réducer - Flush (1/2NFT x 3/8NFT) 130-3398 1 DE8 15 *Filter, Water - W/Corosion" 130-3399 1 DFA 15 *Filter, Water - W/Corosion" 130-3399 1 DFA 15 *Filter, Water - W/Corosion" 130-3399 1 DFA Inhibiting Chemical DCA4 4 511-0161 Belt, Drive - Fan 1 Service for 20-40 Gai Cooling 5 511-0161 Belt, Drive - Alternator System (CEC# 3318157)[WF2070] 6 191-1846-01 Alternator (35 Amp, 24 VDC) 1 Service for 40-60 Gai Cooling 7 130-3317-01 Pulley, Drive System (CEC# 331816)[WF2071] 1 1 Pre-Charging for 20-90 Gal Cooling System (CEC# 3318319) Cooling System (CEC# 3318319)	•••••	130-3282	1		•			
SPEC B 15 (1/2NPT x 3/8NPT) 130-3398 0 E8 15 *Filter, Water - W/Corosion 130-3399 1 DFA Inhibiting Chemical DCA4 4 511-0152 BelT, Drive - Fan 1 Service for 20-40 Gal Cooling 5 511-0161 BelT, Drive - Alternator System (CEC# 3318157)[WF2070] 6 191-1846-01 Alternator (35 Amp, 24 VDC) 1 Service for 40-60 Gal Cooling 7 130-3317-01 Pulley, Drive System (CEC# 33181516)[WF2071] 1 1 Pre-Charging for 20-90 Gal Cooling System (CEC# 3318116)[WF2071]			1			505-0117	1	
130-3398 1 0 E8 15 *Filter, Water - W/Corosion 130-3399 1 D FA Inhibiting Chemical DCA4 4 511-0162 1 Belt, Drive - Fan 1 Service for 20-40 Gal Cooling 5 511-0161 1 Belt, Drive - Alternator System (CEC# 3318157)[WF2070] 6 191-1846-01 1 Alternator (35 Amp, 24 VDC) 1 Service for 40-60 Gal Cooling 7 130-3317-01 Pulley, Drive System (CEC# 3318154)[WF2071] 1 7 130-3317-01 Pulley, Drive 1 Pre-Charging for 20-90 Gal Cooling System (CEC# 3318319)			-		?			
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5 511-0161 1 Belt, Drive - Alternator System (CEC# 3318157)[WF2070] 6 191-1846-01 1 Alternator (35 Amp, 24 VDC) 1 Service for 40-60 Gal Cooling 7 130-3317-01 1 Pulley, Drive System (CEC# 3318156)[WF2071] 1 Per-Charging for 20-90 Gal Cooling 1 Decoding System (CEC# 3318319)	4		· î				1	
6 191-1846-01 1 Service for 40-60 Gal Cooling 7 130-3317-01 1 Pulley, Drive System (CEC# 3315116)[W2071] 1 Pre-Charging for 20-90 Gal Cooling System (CEC# 3318319) 1 Pre-Charging System (CEC# 3318319)	5		1					
7 130-3317-01 1 Pulley, Drive System (CEC# 3315116)[WF2071] 1 Pre-Charging for 20-90 Gal Cooling System (CEC# 3318319) 1	6		ĩ			- 11 - 11 - 11 - 11 - 11 - 11 - 11 - 1	1	
1 Pre-Charging for 20-90 Gal Cooling System (CEC#. 3318319)	7.		1				-	
Cooling System (CEC#.3318319)			4			· .	1	
				and the second second second second second			-	
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NOTES:

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

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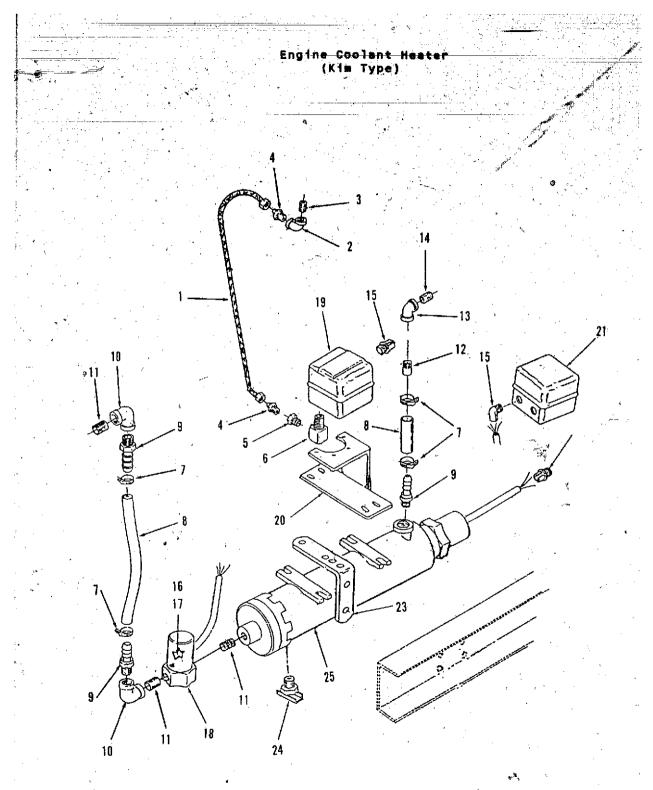
USA Office: BEARWARD RADIATOR Route 222 Box 187 Fleetwood, PA 19522 215-944-6017

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* 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 Sat.

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







Engine Coolant He (Kim Type)

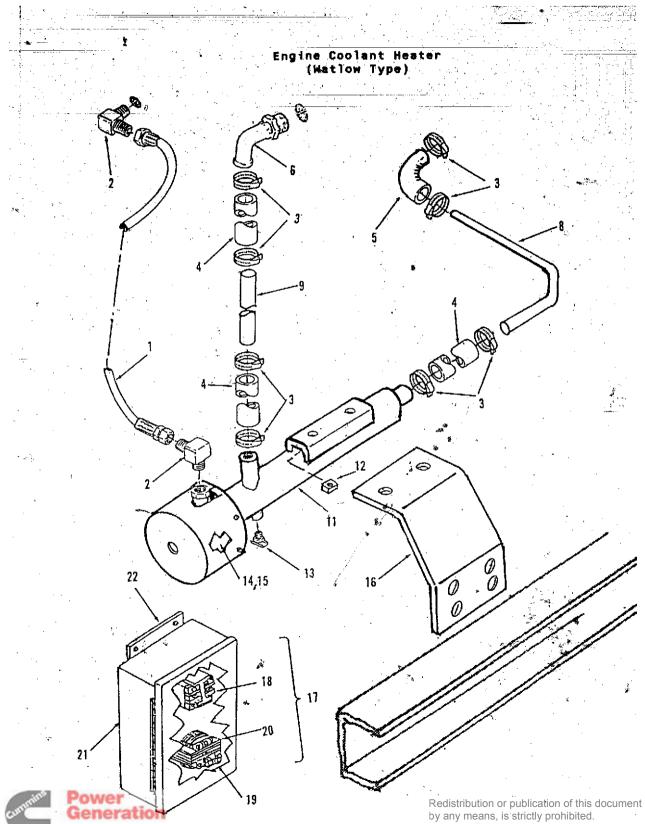
REF NOT	PART	USED-	PART DESCRIPTION	REF NO.		OTY USED	PART DESCRIPTION
1	501-0199	1	Line, Fuel	20	333-0224	1	Bracket, Support
2	505-0037	and a second second	Elbow, Pipe - 90"	. 1	^{rt} 800-0007	• * •	Attaching Parts for Bracket Screw, Cap - Hex Head
3	505-0098 502-0193	4 - 3	Connector	2	000 0001	. .	{1/4-20 x 1"}
5	505-0007	1	Bushing, Reducer - Hex		850-0040	4	Washer, Lock - Spring (1/4"
6	502-0054	े े 1	Elbow, Pipe - Street, 90"		862-0001	. 4	Nut, Hex (1/4-20)
7	503-0429		Clamp, Hose	21	i		Contactor
8	503-1411	TAR .	Hose, Bulk	· .	307-1460	1	230 VAC, 3 Pole
9	505-0759	14	Adapter, Hose to Pipe	~~	307-1164	· 1 ·	460 VAC; 3 Pole
10	505-0041	2	Elbow, Pipe - 90	23	130-1375	2	Bracket, Mounting
, 11	505-0004	-	Nipple, Pipe - Close		800-0052	2	Attaching Parts for Bracket Screw, Cap - Hex Head
12 13	505-0324	· · · ·	Nipple, Pipe - Half Elbow, Pipe - 90	÷.	500-0032	2	(3/8-16 × 1-1/2")
14	505-0102	and the second	Nipple, Pipe - Close		862-0003	2	Nut, Hex (3/8-16)
15	331-0027	ŝ	Clamp, Cable	24	504-0003	ī	Cock, Drain
16	323-0957	2	Nut, Wire	25	Const.		Heater, Electrical
17	332-0149	8	Lug, Terminal		333-0143	1	4000 Watt, 208 VAC - 1 Phase
			Switch, Thermostatic		333-0164	. 1 °	4000 Watt, 208 VAC - 3 Phase
	309-0304	1	80 - 100 Fahranheit		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
19	309-0307	1	Switch: Pressure - Oil		333-0183 333-0174	1	4000 Watt, 380 VAC - 1 Phase
····· · ·	812-0079		Attaching Parts for Switch Screw, Machine - Round+Head		333-0174	1	4000 Watt: 380 VAC - 3 Phase - 4000 Watt, 480 VAC - 1 Phase
•	015-0018		(#8-32 x 1/2")		333-0144	1	4000 Watt, 480 VAC - 3 Phase
	854-0007	4	Washer, Lock - ET (#8)	•	000 0144	. ,	

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As Required, Bulk Hose available in Multifoot lengths AR

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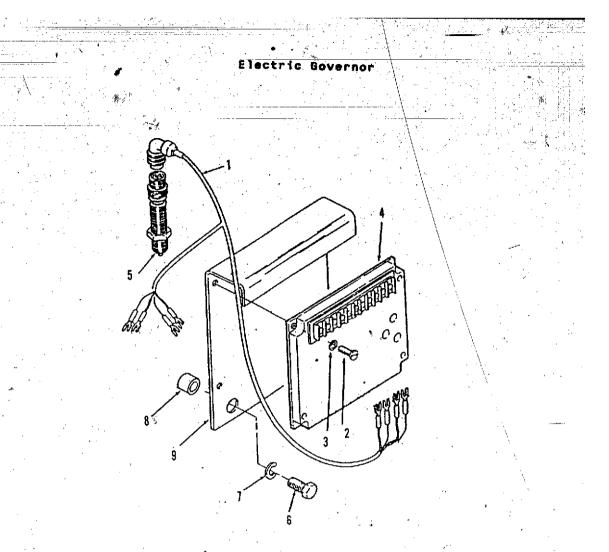


Engine Coolant Heater (Watlow Type)

REF NO.	PART NO.	OTY	PART DESCRIPTION	REF NO	PART NO.	OTY USED	PART DESCRIPTION
⁵ ™ 1	501-0537-07 502-1043-08	1	Hose Assembly - Oil Pressure Elbow, Pipe - Male, 90'	16	130-3189	1	Bracket, Mounting - Heater Attaching Parts for Bracke
3	503-1603 503-1502	8	-Clamp, Hose Hose, Rubber		800-0210	4	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
5	503-1604 502-1049	1	Elbow, Hose - Rubber Coupling, Hose - Elbow, 45	·	850-0103	4	Washer, lock - Spring (3/8")
ŝ	130-3269	1	Tube, Water Tube, Water	17	871-0028	4	Nut, Hex - Brass (3/8-16 Switch, Control - Heater
, 1 1 -		· .	Heater, Electrical (Includes Thermostat, Oil Press Switch, Drain Cock and Mounting Nuts)		•		(Includes Contactor, Step down Transformer w/ Fuse [480V Unit Only], Ground
	333-0413-08 333-0389-02	1	4000 Watt, 208 VAC 4000 Watt, 240 VAC		309-0567-01	1	lug and Box) 120 VAC
	333-0389-04	1	4000 Watt, 480 VAC [Includes Heater Control		309-0567-02	1	480 VAC Attaching Parts for Switch
	333-0389-06	1	Switch Unit) 4000 Watt, 120 VAC		800-0222	4	Screw, Cap - Max Head (1/4-20 x 3/4")
·			(Includes Heater Control Switch Unit)		850-0101	4	Washer, lock - Spring (1/4")
1.1	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		Attaching Parts for Heater		862-0031	4	Nut, Hex (1/4~20)
La de la	800-0222	2	Screw, Cap - Hex Head (1/4-20 x 3/40)	18		1	Contactor (37.5 AMP,3 Pole SPST, 120 VAC Coil)
ан	850-0101	2	Washer, lock - Spring (1/4")	19 20	•	$\frac{1}{1}$	Fuse (1 AMP) Transformer, Step-down
	402-0608 402-0609	2	Isolator, Vibration Isolator, Vibration				(240/480VAC Pri, 120VAC Secondary, with Fuse
12	402-0003	2	Nut, Special(Supplied with	21		1	clips on output Termina Box; Electrical
13	504-0003	1	Heater) Cock, Drain (1/4 NPT)	22	333~0390	1	Bracket Mounting - Switch
14 15		1 1	Thermostat Switch, Pressure - Oil		800~0210	2	Attaching Parts for Bracke Screw, Cap - Hex Head
			· · ·	÷	850-0103	2	(3/8-16 x 1-1/4") Washer, lock - Spring (3/8")
		••			871-0028	2 .	Nut, Hex - 8rass (3/8-16

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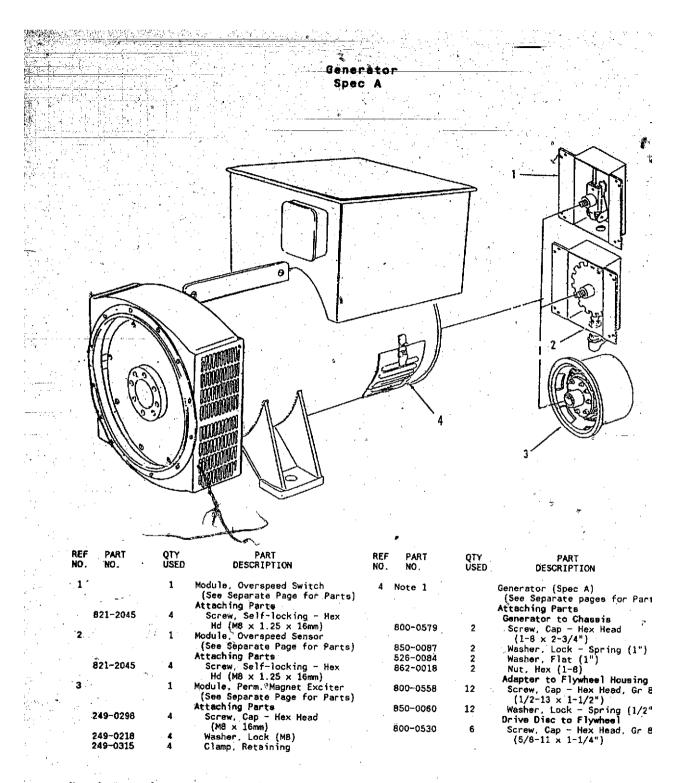
•	REF NO.	PART NO.	OTY USED	PART DESCRIPTION	REF NO.	PART NO.	OTY USED	PART DESCRIPTION
	1	338-1777	1	Harness, Wiring	. 5	151-0411	1	Pickup, Magnetic
ς.	2.	813-0103	4	Screw, Machine - Round Head (#10-32 x 3/4")	6	800-0151	2	Screw, Cap - Hex Head (3/4-10 x 1*)
•,	3	870-0131	4	Nut, Self-locking, Hex (#10-32)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

Contents Power Generation

TABLE OF CONTENTS Generator Section

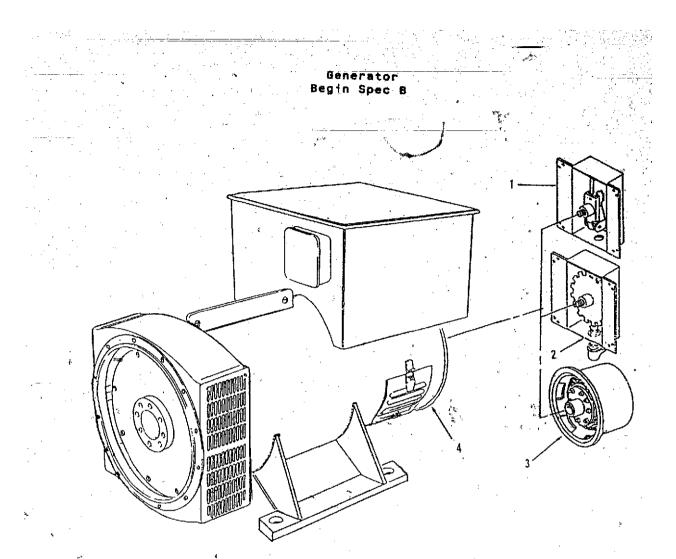
GENERATOR - Spec	Α	· · · · · · · · · · · · · · · · · · ·	32
GENERATOR - Spec	B	*	33
STATOR SECTION -	SAE 0 / SAE 18, 1	Frame 5	35
ROTOR SECTION -	SAE 0 / SAE 18,	Frame 5	
PERMANENT MAGNET	EXCITER		
OVERSPEED SENSOR	·		
OVERSPEED SWITCH			40

Power Generation



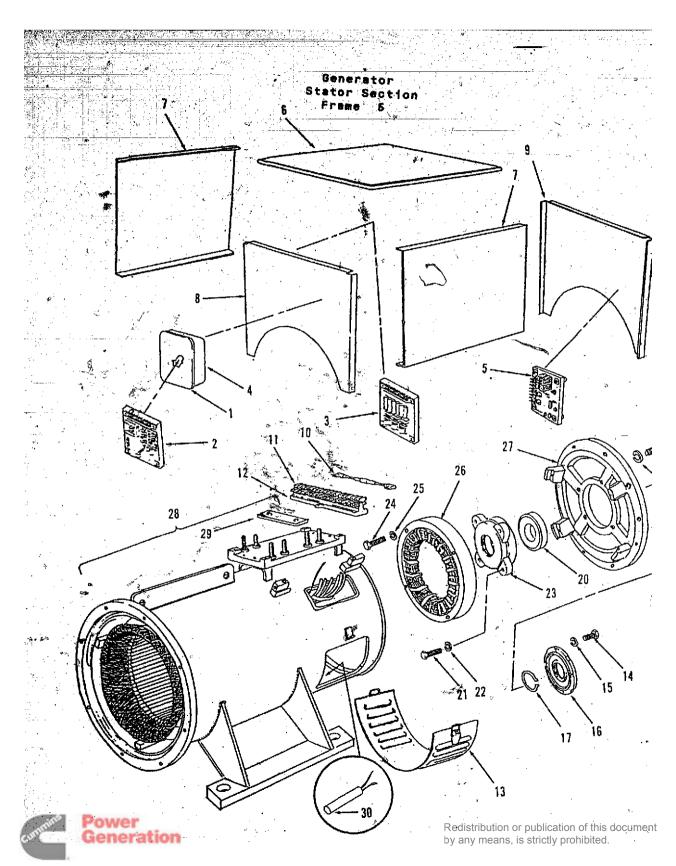
Note 1: For replacement Generator please supply the complete Gen Set nameplate and Generator nameplate data.





[′] 1	,	1	Module, Overspeed Switch				
			(See Separate Page for Parts) Attaching Parts	4	Note 1		Generator (Begin Spec B) (See Separate pages for Par Attaching Parts
5	821-2045	4	Screw, Self-locking - Hex				Generator to Chasais
			Hd. (M8 x 1.25 x 16mm)		800~0579	4	Screw, Cap - Hex Head
2		1	Modulle, Overspeed Sensor		,		$(1-8 \times 2-3/4^{*})$
			(See Separate Page for Parts)		850~0087	4	Washer, Lock - Spring (1")
			Attaching Parts		526-0084	4	Washer, Flat (1")
8	821-2045	4	Screw, Self-locking - Nex		862~0018	4	Nut, Hex (1~8)
			Hd (MB x 1.25 x 16mm)				Adapter to Flywheel Housing
з	· · ·	1	Module, Perm, Magnet Exciter (See Separate Page for Parts)		800-0558	12	Screw, Cap - Hex Head, Gr (1/2-13 x 1-1/2")
			Attaching Parts		850-0060	12	Washer, Lock - Spring (1/2
2	249-0298	4	Screw, Cap - Hex Head				Drive Diec to Flywheel
			(M8 x 16mm)		800-0530	6	Screw, Cap - Hex Head, Gr
2	249-0218	4	Washer, Lock (M8)				(5/8-11 × 1-1/4")
2	249-0315	4	Clamp, Retaining				





Generator Stator Section Frame 5

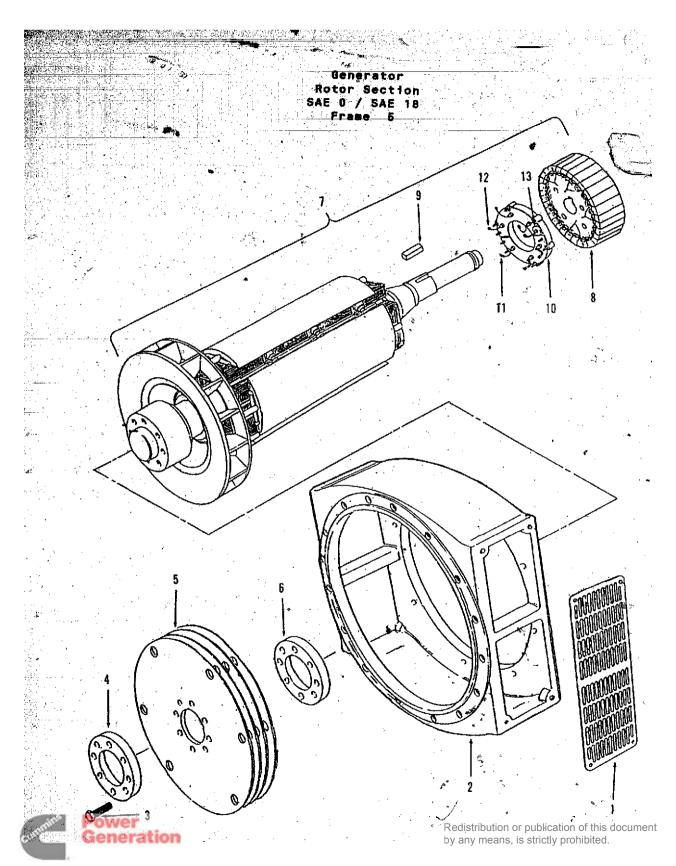
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REF NO	PART NO.	OTY USED	PART DESCRIPTION	REF	PART NO.		QTY USED	PART DESCRIPTION
1	249-0631	2	Lid Attaching Parts	14	249-0201		8	
	249-0304	4	Screw, Captive	15	249-0202	•	8	(M10 x 35mm) Washer, Lock - Spring (M10)
2	· ·	2	Regulator, Voltage	16	249-0242		i .	Cap, Bearing - Outer
	305-0770	1	Standard 1 Phase u/w PMG	17	249-0232		1	Circlip
	305-0778	1	3 Phase (Used with	18	249-0243		4	Screw, Cap - Hex Head
			PMG Exciter & 3 Phase				~ ,	(M10 x 30mm)
			Sensing Module)	19	249-0202		4	Washer, Lock - Spring (M10)
	305-0803	1,	Manua 1	20	249-0241		· 1	Bearing, Ball
	1.0		Attaching Parts	21	249-0245		4	Screw, Cap - Hex Head
	249-0398	4	Pillar, Threaded					(M10 x 50mm)
3	249-0564.	1	Module, 3 Phase Sensing	22	249-0202		۲۰۰	Washer, Lock ~ Spring (M10)
Ø			Attaching Parts	23	249-0244		ĩ	Cap, Bearing - Inner
	249-0398	4	Pillar, Threaded	24	249-0256		ŝ	Screw, Gap - Hex Head
4	249-0395	2 ·	Box				v	(M6 x 65mm)
5	300-3209-02	1	Module, Frequency Detection	25	249-0212		6	
	1 ¹		Attaching Parts	26	249-0255		.1	Washer, Lock - Spring (M6) Stator, Exciter
	249-0295	4	Screw, Cap - Hex Head	27	249-0272		1	
			(M5 x 35mm)		NFS		1	Bracket; End
	249-0288	4	Washer, Plastic (M5)	20			Ŧ	Stator, Generator (Includes
	249-0287	. 4	Nut, Hex - Nylon (M5)	•				Terminal Studs and Links)
6	NES	1	Lid					Attaching Parta Stator
7	NFS	-2	Panel, Side		249-0268		в ·	to Adapter
8	NFS	- 1	Panel, Front		243 0200		¢	Screw, Cap - Hex Head
9	NFS	<u>1</u>	Panel, Rear		249-0205			(M12 × 35mm)
10	249-0428	1 .	Resistor (Voltage Code	29	249-0200		8	Washer, Lock - Spring (M12
		-	H Only}	30	245-0200		4	Link, Terminal
11	249-0289	· 3	Block, Terminal - AUX	50	249~0621	•		Heater, Electrical - Replace
· 12	249-0424	ĩ	Base, Terminal - AUX		249~0621		1 .	70 Watt, 120 VAC
13	249-0408	2	Grille, Inlet - Air		243-0022		1	70 Watt, 240 VAC

NFS - Not For Sale

Generation

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Generator Rotor Section SAE 0 / SAE 18 Frame 5

	REF NO .	PART	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	OTY- USED	PART DESCRIPTION
-	1	249-0458	2	Screen, Air — Adapter Attaching Parts	7	NFS	1	Rotor, Generator (Includes Exciter, Key, and Rectifie
		249-0294	12	Screw, Cap - Hex Head	•		<u> </u>	Assemblies)
		249-0307	12	(MS x 12mm) Washer, Lock - Spring (MS)	8	249-0522	1	Rotor, Exciter (Does Not
<							•	Include Rectifier Assy)
		249-0365	12	Washer, Flat (M5)	g	249-0271	- 1	Key
	2	249-0322	1	Adapter, Generator SAE Qg	10	249-0237	1	Rectifier Assy
	3	249-0437	8	Screw Cap - Hex Head	1 A.	· · · · ·		(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	i,	Varister
	6	249-0277	1	Spacer				

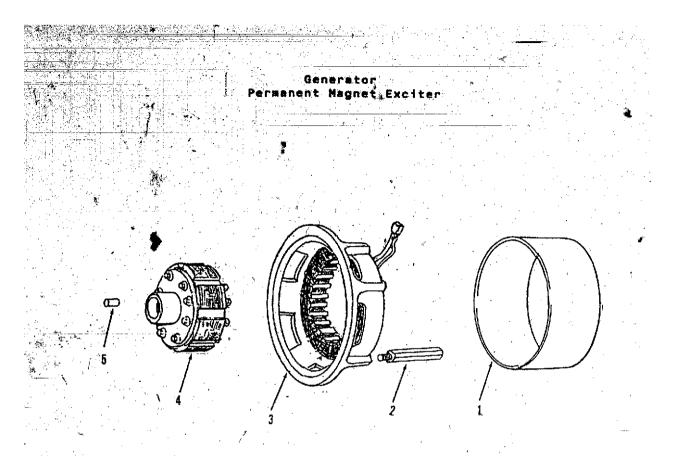
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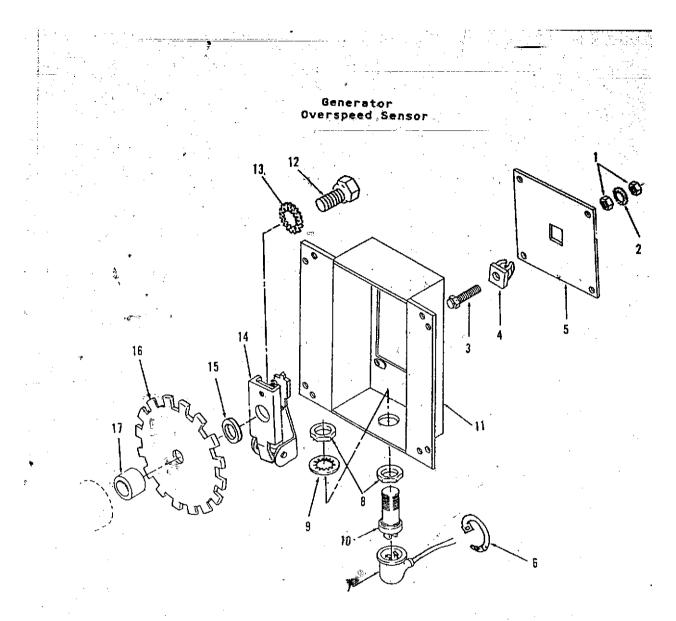


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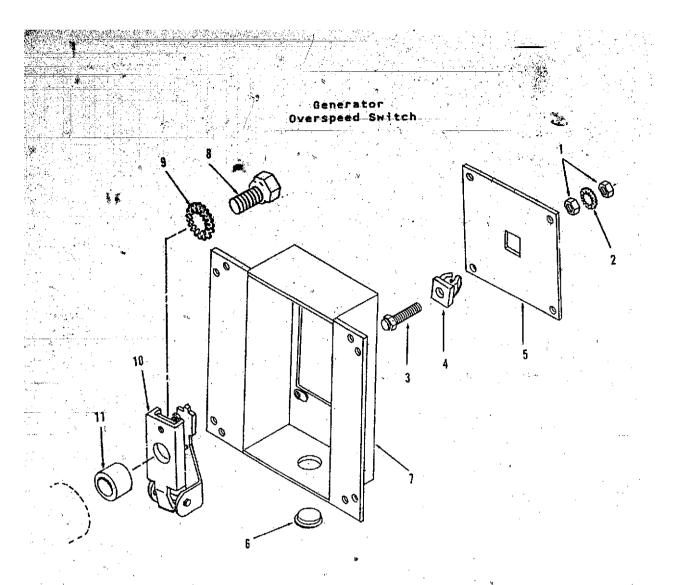
en e		· · · ·				
REF PART NO. NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1 249-0497	1 Cove	3 r .	4			Rotor, Exciter
249-0294		crew, Cap - Hex Head	N	249-0427	1	Frame 2, 3, 4 Generators
1		(M5 x 12mm)		249-0644	1	Frame 5, 6, 7 Generators
249-0307	3 W#	asher, Lock (MS)			· ·	Attaching Parts for Rotor
2 249-0496	3 Pill	lar, Threaded		249-0399	1	Bolt
3 249-0426	1 Stat	tor, Exciter with Frame		249-0202	1	Washer, Lock (M10)
March 🖌 🗋 🔪 🖂		a second a s	5	249-0313	1	Pin, Dowel

tion



REF NO	PART NO.	QTY USED	PART DESCRIPTION	RI NG	-	PART NO.	QTY USED	PART DESCRIPTION
1	862-0001	2	Nut, Hex (1/4-20)	•)	854-0031	1	Washer, Lock - IT (3/4")
2	853-0013	1	Washer, Lock - EIT (1/4")	10)	150-1406	1	Sensor, Speed
3	150-0723	.1	Point, "Overspeed	11	L	150-2207	1	Cover, Overspeed Switch
'4	870-0250	ʻ 1	Nut, Insulated	17	2	718-1058	1	Screw, Cap - Hex Head
5	150-2206	1	Plate, Mounting					(M10 x 1.5 x 45mm)
	821-0005	4	Screw, Self-locking - Hex	13	3	856-0010	1	Washer, Lock - EIT (3/8*)
			$(#10-32 \times 1/2")$	14	l.	150-0956	1	Switch, Overspeed
6	332-1445	5	Tie Cable	15	5.	370-4031	1	Spacer, Sleeve
7	338-2189-02	1	Harness, Wiring	16		150-2204	1	Wheel - Speed Sensor
8	888-0011	2 .	Nut. Jam - Hex (3/4-16)	, 17	t ;	370-4032	1	Spacer, Sleeve

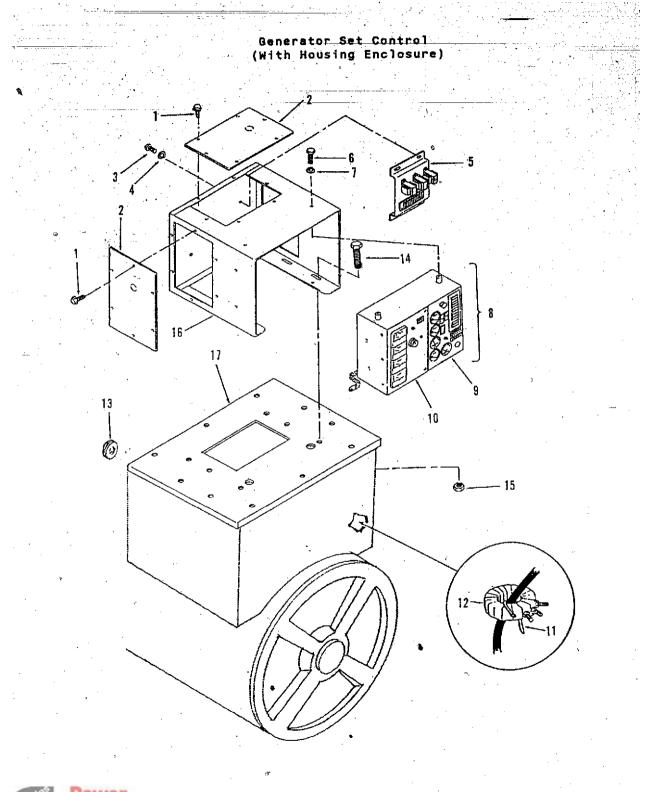




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REF	PART NO.	QTY USED	PART DESCRIPTION	- REF NO.	PART NQ.	QTY USED	PART ' DESCRIPTION
-11- 1 -1	852-0001	2.	Nut, Hex {1/4-20}	6	517-0136	1	Plug, Plastic
	853-0013	ī	Washer, Lock - EIT (1/4")	7	150-2207	1	Cover, Overspeed Switch
3	150-0723 870-0250	· 1	Point, Overspeed Nut, Insulated	8	718-1058	1	Screw, Cap - Hex Head (M10 x 1.5 x 45mm)
	150-2206	1	Plate, Mounting	. 9	856-0010	<u> </u>	Wesher, Lock - EIT (3/8")
	821-0005	1	Screw, Self-locking - Hex	10	150-0956	ĩ	Switch, Overspeed
		-	(#10-32 × 1/2")	11	370-4032	1	Spacer, Sleeve

Generation

TABLE OF CONTENTS SET CONTROLS



Power Generation

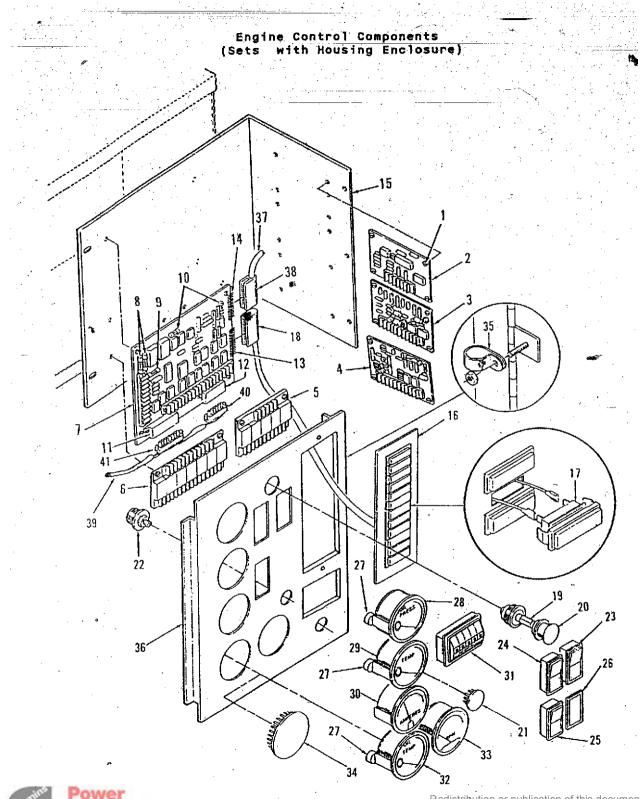
Generator Set Control (With Housing Enclosure)

RE NO			QTY USED	PART DESCRIPTION		EF D.	PART NO	OTY USED	PART DESCRIPTION
1	821-0005	•.	18	Screw, Self-locking - Hex (#10-32 x 1/2")	1	-	332-0941		Tie, Cable Transformer, Current - Recou
2	NFS	• • •	3	Panel, Box - Control					nectible
3	812-0156		4.	Screw, Machine - Round Heed (1/4-20 x 1/2")			303-1794-05	. 3	500:5 Ratio, 400kW Voltage Code H.
. A	850-0040		4	Washer lock - Spring (1/4")	1		302-1794-10	3 .	600/1200:5 Ratio; 330kW
	NFS		1	Transformer Assy; Potential				•	Voltage Code Z.
~				(See Separate Page for Components)	:		302-1794-11	з	750/1500:5 Ratio; 400kW Voltage Codes L & Z, 450
6	800-0051		4	Screw, Cap - Nex Head		ÿ			Voltage Code H.
				(5/16-18 × 1/2")			302~1794-12	з	1000/2000:5 Ratio; 450kW
' 7	850~0045		4	Washer, Lock - Spring (5/16"))			•	Voltage Code L.
	NFS		1	Control, Set (See item 9 &	13	3	508-0051	1 .	Grommet
		1.		10 for Components)	14	4	870-0212	6	Nut, Self-locking - Hex
.9	NFS		1	Control, Engine (See Separate Page for Components)	ə 1	5	821-0018	6	Screw, Self-locking - Hex Head (1/4-20 x 5/8")
1.0	NF5	•	· 1	Control, Generator (See Sep-	16	5	NFS	1	Housing, Control
	· · ·	•		arate Page for Components)	1		NFS		Adapter, Housing to Termina Box

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Engine Control Components (Sets with Housing Enclosure).

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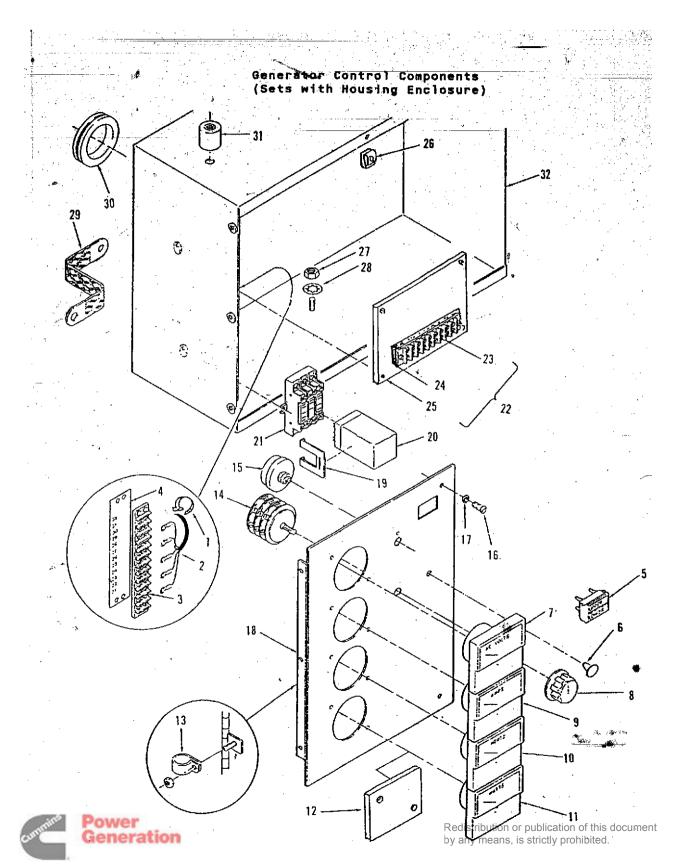
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	REP NO.		OTY USED	PART DESCRIPTION	REF NO	PART NO. 14	QTY USED	PÁRT DESCRIPTION
Ĕ.	1	815-0544	24	Screw, Machine - Round Head With IT Lock Washer		322-0369-02	12	Lamp, Incandescent - 1/3 Watt 28 VDC
		1		(#6-32 × 1/2")	18	323-1310	1	Housing, 13 Pin (J3)
	2	300-2899	1	Board, Time Delay,		323-1302	13	Contact, Pin
	1.1			Start/Stop - 24 VDC (A15)	19	322-0017	1	Lamp, Incandescent - 28 VDC
1. 1. s. g 1.	3		1.1	Board, Magnetic Sensor,		· · ·		(DS11)
	:			Start Disconnect/Over Speed	20	322-0361	1	Holder, Lamp
a sing t				Sensor (A16)	21	517-0131	1	Plug, Button
1.1		300-2903	1	Standard	22	303-0280	1	Potentiometer (R11)
		300-2904	1	Precision	23	308-0785	1	Switch, Push (S11)
: · · ·	°.∎	300-2906	1	Board, Over-Under Voltage	24	308-0784	1	Switch, Push (512)
•				Sensor - 24 VDC (A17)	26	301-6257	· 1	Cover
18 g 1	5	300-2856	1	Board, Relay - 24 VDC (A13)	27	193-0250	3	Resistor, Gauge (R12)
•	6	300-2863	1 .	Board, Relay - 24 VDC (A14)	28	193-0352	1	Gauge, Pressure - Oil (M11)
	7	e perese de la composición de la compos	1 A.	Board, Engine Monitor (All)	- 29	193-0351	- 1	Gauge, Temperature - Water
				(Includes Fuses and				(M12)
				Connectors)	30	302-1790	1	Ammeter (M13)
	1.11	300-2808	1 ·	24 VOC, 2 Light	31	302-0885	+ 1	Meter, Totalizing - Time
	. •	300-2812	1 .	24 VDC, 12 Light				(M14)
	8	321-0270	2	Fuse, Cartridge - 20 Amp (F1, F2)	•	815-0385	2	Screw Machine - Round Head {#6-31 x 1/2"}
	9	321-0231	1	Fyse, Cartridge - 15 Amp (F3)		870-0183	2	Nut, Hex with ET Lockwasher (#6-32)
en gert	10	321-0094	2	Fuse, Cartridge - 5 Amp (F4, F5)	32	193-0330	1	Gauge Temperature - Oil (M15)
	11	323-1305	1	Connector, 8 Pin (P1)	33	302-1873-01	1	Tachometer (M16)
•	12	323-1303	1	Connector, 6 Pin (P2)	34	517-0221	1	Plug, Button
	13	323-1309	. 1.	Connector, 13 Pin (P3)	35	332-0052	1	Clamp, Loop
	14	323-1307	1	Connector, 12 Pin (P4)		870-0131	1	Nut, Hex with ET Lockwasher
	15 .	NFS	1	Bracket, Mounting [301-8851]				(#10-32 x 1/2")
1997 - Sec.		821-0004	4	Screw, Self-locking - Hex Hd	36	NFS		Door, Control [301-9055-01]
		1.0		(#10-32 × 5/16")	37	338-1817	1	Harness, Wiring - DC Meter
	16		•	Module, Indicator - Fault			•	(Includes Connector & Pins)
' .				(Includes replaceable lamps,	38	323-1308	1	Housing, 12 Pin (J4)
				Harness with connector		323-1302	12	Contact, Pin
		•		housing & contact pins)(A12)		338-2169	1	Harness, Wiring - Control to
· .		322-0358-02	1	24 VDC, 2 Light			- -	Engine (Includes Connectors
		322-0360-02	ī	24 VDC, 12 Light				and Pins)
1997 - 1997 -		815-0385	2	Screw, Machine - Round Head	40	323-1304	1	Housing, 6 Pin
				(#6~32 × 1/2")-		323-1200	6	Contact. Pin
		· · · · ·					-	
		870-0183	2	Nut, Self-locking - Hex	41	323-1306	1	Housing, 8 Pin

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Generator Control Components (Sets with Housing Enclosure)

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	REF NO .	PART NO.	OTY USED	PART DESCRIPTION	REF NO	PART NO.	OTY USED	PART DESCRIPTION
2.2.5	1	332-1445	2	Tie, Cable	13	332-0052	1	Clamp, Loop
•	2			Hanness, Wining		870-0131	1.	Nut, Self-locking - Hex with
		338-1818	1	Control with Meters		× .		ET Lock Washer (#10-32)
	-		·	(Includes Terminal Block)		308-0284	· 1	Switch, Rotary (\$21)
		338-1853	1	Control without Meters		303-0261	1	Rheostat (R21)
- Q -		812-0065	2	Screw, Machine - Round Head			2	Clip, Fastener
5	-			(#6~32 × 5/8")	17	406-0333	2	Stud, Fastener
	3	332-0607	1		18		1	Door, Control
•	4	332-2723	1	Strip, Marker		821-0004	- 3	Screw, Self-locking - Hex
	5	322-0363	1.	Light, Indicator - Dual			· .	(#10-32 × 5/16")
				(DS21, DS22)	19	307-1987	2	Clip Relay
	6	517-0131	1	Plug Butten		307-1056	1	Relay, 24 VDC (K21)
	7	1 A. 1		Voltmeter (M21)	21	323-0804	1	Socket, Relay
1.		302-1148	1	Dual Scale 0-300/0-600V		815-0544	2 .	Screw, Machine - Round Nead
•		302-1753	1	Single Scale 0-750V				with IT Lock Washer
	8	303 70032	1	Knob				(#6-32 × 1/2")
	9	and the second s		Ammeter (M22)	22	NFS	1	Terminal Board Asembly
÷., *			1.1.1.1.1.1	Single Scale Voltage Code H		812-0065	. 4	Screw, Machine - Round Head
· ·		302-1730	1	400kW, 0-500 Amp				(#6-32 × 5/8")
		302-1731	1	450kW, 0-750 Amp	23	332-0751	1	Block, Terminal
	<u>.</u>			Dual Scale Voltage Code Z		812-0066	3	Screw, Machine - Round Head
		302-1728	1.	330kW, 0-600/0-1200 Amp,				(#6-32 x 3/4") ●
	· .			208 & 480 VAC Only.		332-0853	1	Strip, Marker
		302-1729	1	330kW, 0-750/0-1500 Amp,		NFS	1	Plate m
	-			380VAC Only; and 400 k₩	26	406-0332	2	Receptacle, Fastener
			· ·	all voltages.	27	871-0015	1	Nut, Hex (1/4-20)
				Dual Scale Voltage Code L.		853-0013	· 1	Washer, Lock - ET (1/4")
		302-1729	1	400kW, 0-750/0-1500 Amp,	29	337-0049	1	Strap, Electrical (Ground)
• •	• `			all voltages.		800-0024	1	Screw, Cap - Hex Head
•		302-1798	1 .	450kW, 0-1000/0-2000 Amp,		<u> </u>		(5/16-18 x 1/2")
÷				all voltages.		856-0008	1	Washer, Lock - ElT (5/16")
	0	302-1720	1	Meter, Frequency (M23)		508-0051	• 1	Grommet
1	1		1	Wattmeter (M24) (See	31	402-0527	2	Mount, Vibration
1.11				Separate page for Components)		800-0051	4	Screw, Cap - Hex Head
1	2	NFS	1	Cover, Meter Hole				(5/16-18 × 1/2")
`		816-0385	2	Screw, Machine - Round Head, Black (#6-32 x 1/2")		850-0045	4	Washer, Lock - Spring (5/16")
	÷	870-0183	2	Nut, Hex with ET Lockwasher (#6-32)	32	NFS	1	Box, Control

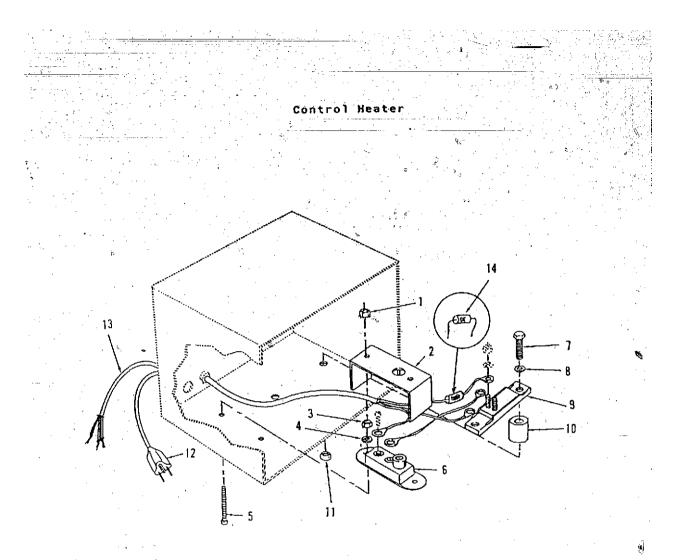
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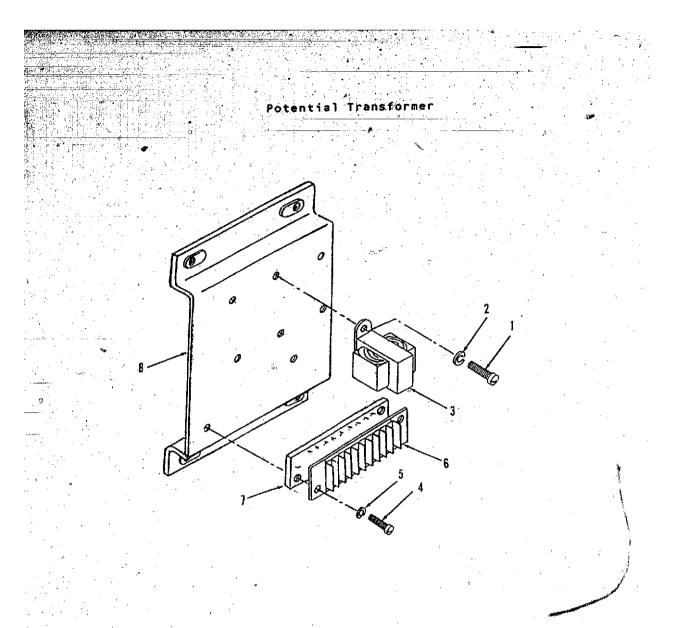
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REF	PART NO.	QTY USED	PART DESCRIPTION	REF NO	PART NO.	QTY USED	PART DESCRIPTION
,	870-0183	2	Nut, Self-locking - Hex	. 9		-	Heater, Electrical
,	0/0 0100		(\$6-32)		333-0151	1 -	120VAC
-	061 100C	1	Cover		333-0378	1	240VAC
	301-1886	:		10	130-1107	2	Spacer
3	860-0006	1	Nut, Hex (#6-32)	11	870-0257	-	Nut, Self-locking - Hex
4	854-0006	2	Washer, Lock - IT (\$6)	11	B/0-023/	2	(5/16-18)
5	812-0070	2	Screw, Machine - Round Head			-	
. "	0.12 0.010		(#6-32 x 1-1/4")	12	335-0161	1	Gable, Electrical (120VAC Application)
6	309-0128	1	Thermostat, Adjustable				
-	800-0034	2	Screw, Cap - Hex Head	13	338-2121	1	Harness Wiring with
'		•	{5/16-18 × 2-1/4"}				Diode, lass plug (240VAC Application)
8	526-0113	2	Washer, Flat (5/16")	14	357-0013	,	Diode
				14			
				15	98-3232	1	Decal Warning - Shock Hazard

(Not Illustrated)

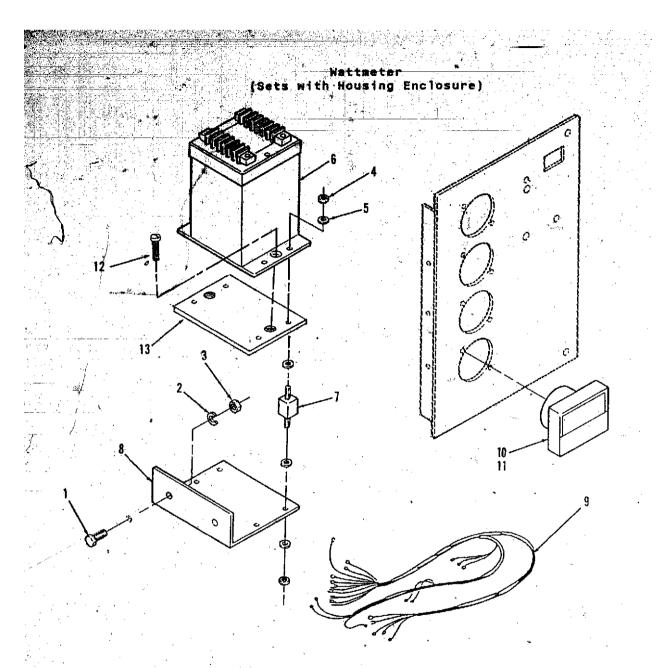




	.,					Jone .	1. 1. 1. 1.		\sim
	ref HD.	PART NO.	-	QTY USED	PART DESCRIPTION	REF NO.) PART NO.	QTY USED	PART DESCRIPTION
	1.	812-0079		6	Screw, Machine - Round Head (#8-32 x 1/2")	5 6	850-0025 332-2562	2 1	Washer, Lock - Spring (#8) Block, Terminal (10 Place)
	2	850~0025		6	Washer, Lock - Spring (#8)	7	332-2563	1	Strip, Marker
	·3 /	315-0642 812-0077		3	Transformer, Potential Screw, Machine - Round Head (#8-32 x 3/6")	8	NFS	1	Bracket, Mounting
n Maria ang s	$\mathcal{A}^{(1)}$			- '	•				

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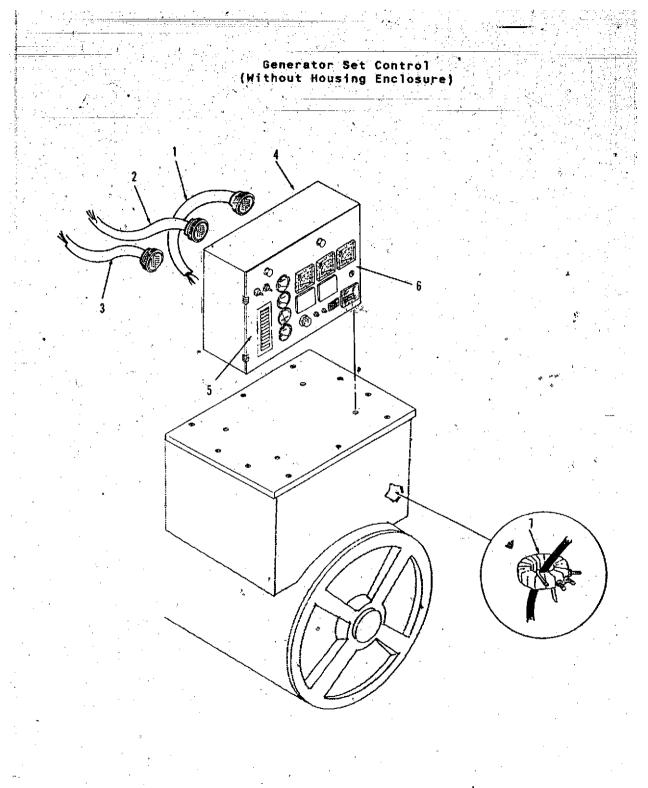




				and the second				and the second
	REF NO.	PART NO,	OTY USED	PART DESCRIPTION	REF NO.	PART NO,	QTY USED	PART DESCRIPTION
	1	821-0017	2	Screw, Cap - Hex Head (5/16-18 x 1/2")	8	301-6987 338-1936	1	Bracket, Mounting
	2	650-0045	2	Washer, Lock (5/16)	10	302~1722	1	Harness, Wiring
*	Э	862-0014	2	Nut, Hex (5/16-18)	11	302-1722	T	Wattmeter (Less Dial) Dial, Wattmeter
	* 4	860-0008	8	Nut, Hex (#8-32)	••	302-1721-13	1	Scale 0-500 kW
	- 5	856-0002	16	Washer, Lock - ET (#8)	12	813-0102	2	Screw, Machine - Round Head
	6	302-1833-01	1	Transduder, Watt			÷.,	(#10-32 x 3/8")
	7	402-0354	4	Mount, Shock	13	319-0030	1	Plate, Support - Transducer

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Generator Set Control (Without Housing Enclosure)

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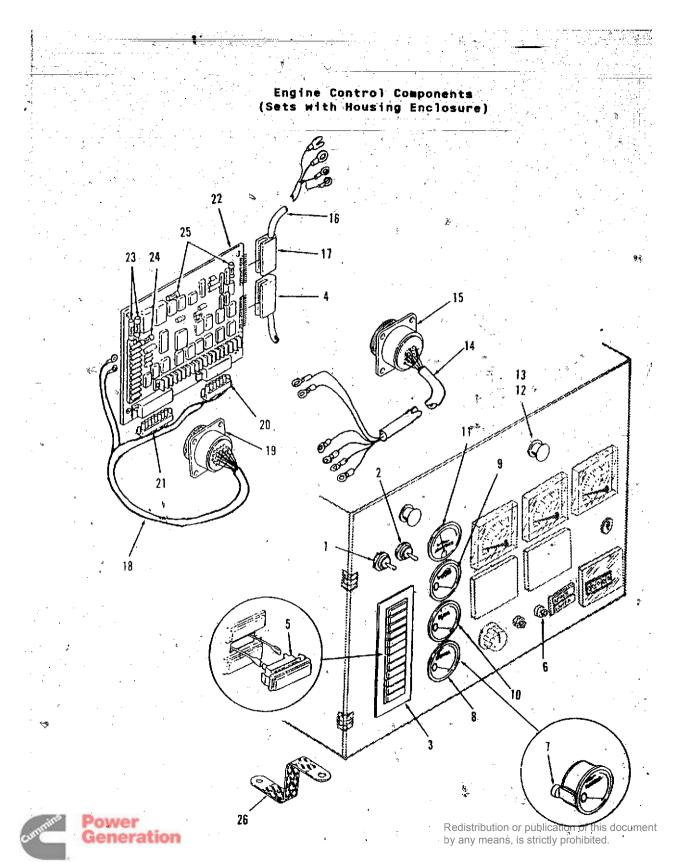
	ref Ho	PART NO.	QTY USED	PART DESCRIPTION	REF NO	PART NO.	QTY USED	
	1	338-2201-01	1	Harness, Wiring - Control to Gamerator (Includes a	7			Transformer, Current (Selec As Applicable)
				connector Housing)	. •	302-1785-01	3.	1200:5 Ratio
N.		323-1135	<u>`1</u>	Housing, Connector (J21)		302-1785-02	ં 3	1500:5 Ratio
		323-1193	. A .	Contact, Pin	· · · · · · · · · · · · · · · · · · ·	302-1785-03	3	1600:5 Ratio
and the second	≅	323-1194	10	Contact, Pin	· · ·	302-1785-04	3.	2000:5 Ratio
	2	-338-2196-01	1	Hanness, Wining - Control to	÷.,	302-1785-05	3 =	2500:5 Ratio
				Governor (Includes a		302-1785-06	З.	^ 2000:5 Ratio (380V Only)
¢				connector housing)		302-1785-07	3	3000:5 Ratio
	•	323-1135	1	Housing, Connector (J12)	· ·	302-1785-08	3	4000:5 Ratio
		323-1193	4	Contact, Pin		302-1785-09	3	5000:5 Ratio 🐭
		323-1194	10	Contact, Pin		302-1786-01	3	500/1000:5 Ratio
	_3	338-2191-01	1	Harness, Wiring - Control to		302-1786-02	3	600/1200:5 Ratio
	• •			Engine Componente (Includes		302-1786-03	3	750/1500:5 Ratio
and the second second		and the second		a connector housing)		302-1786-04	. 3	800/1600:5 Ratio
		323-1206	1	- Housing, Connector'(J11)		302-1786-05	3	900/1800:5 Ratio
		323-1194	20	Contact, Pin		302-1786-06	3	1000/2000:5 Ratio
	4	NFS	1	Control, Set (See steen 5 &		302-1786-07	3	1200/2400% Ratio
	1 s 1	1.1		6 for Components		302-1786-08	3	250/500:5 Ratio
				Attaching Parts for Control		302-1786-09	3	300/600:5 Ratio
		402-0527	4	Mount, Vibration		302-1786-10	3	400/800:5 Ratio
		800-0051	8	Screw, Cap 📽 Hex Head		302-1786-11	3	375/750:5 Ratio
		· · · ·		(5/16-18 x 1/2")		302-1786-12	3	75/150:5 Ratio
		850-0045	8`	Washer, Lock - Spring		302-1786-13	3	100/200:5 Ratio
				(5/16")		302-1786-14	3	150/300:5 Ratio
	5	NFS	1 .	Control, Engine (See Separate	÷	302-1786-15	3	200/400:5 Ratio
÷.	6	NFS	1 .	Control, Generator (Sep- arate Page for Computes)		302-1786-16	3	1500/3000:5 Ratio

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Engine Control Components (Sets with Housing Enclosure)

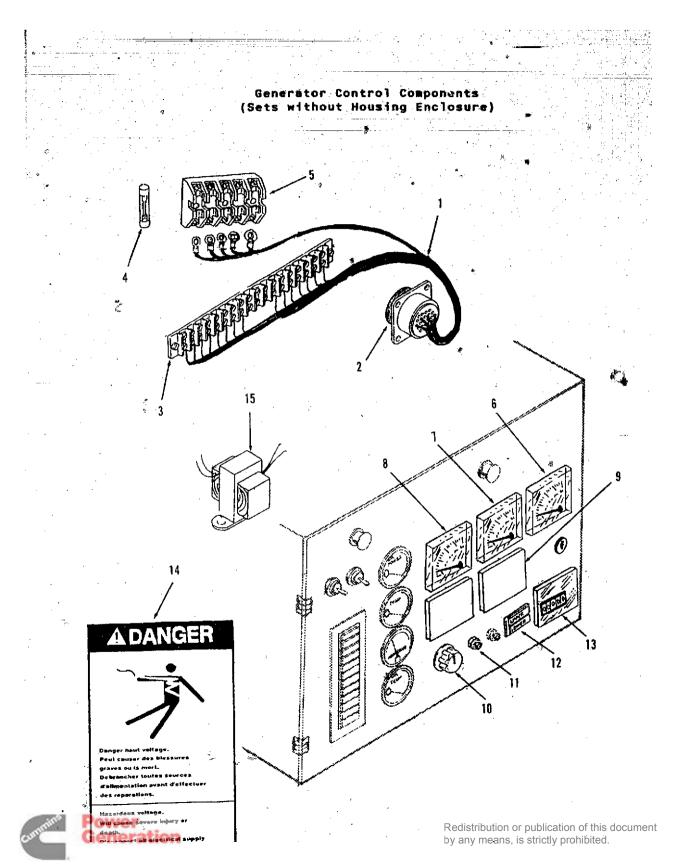
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			(a) (a)	~			
REF NÖ.		QTY USED	PART. DESCRIPTION	REF NO.	PART NO.	OTY USED	PART DESCRIPTION
1	308-0625	1	Switch, Push (512)	15	323-1134	1	Housing, Connector (P12)
ante da la com			[Run/Stop/Remote]		323-1192	- 4	Contact, Socket
2	308-0900	1	Switch, Push (S11)		323-1195	10	Contact, Socket
			[Reset/Panel Light]		323-1190	2	Key
3		· .	Module, Indicator - Fault	16	338-1817	1	Harness, Wiring - Engine
		•	(Includes Harness with a				Monitor Board to Meters
•	•		Connector Housing & Contact				(Inculdes Connector Housing)
			Pins, Replaceable Lamps)	17		1	Housing, Connector (J4)
	· · .		(A12)		323-1302	15	Contact, Pin
-	322-0358-02	1	24 VDC, 2 Light	18			Harness, Wiring - Engine to
	322-0360-02	1	24 VDC, 12 Light				Engine Monitor Board
			Attaching Parts for Module		1 A		(Includes Connector Housings,
and the second	815-0385	- 2	Screw, Machine - Round Head				Terminals and Contacts)
•			(#6-32 × 1/2")		338-2244-01	1	Control with 2 Light Module
	870-0183	2	Nut, Self-locking - Hex		338-2422-01	1	Control with 12 Light Module
1.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	(#6-32)	19	323-1207	1	Housing, Connector (P11)
·	323-1310	1	Housing, Connector (J3)		323-1195	22	Contact, Socket
	323-1302	13	Contact, Pin		323-1190	1	Кеу
5	322-0369-02	· 1	Lamp, Incandescent - 1/3 Watt	20	323-1304	1	Housing, Connector (J2)
	· .		28 VDC		323-1200	6	Contact, Pin
. 6	303-0289	1 7	Rheostat - Speed Control	21	323-1306	1 -	Housing, Connector (J1)
	•.	-	(R23)		323-1200	8	Contact, Pin
7	193-0250	3	Resistor, Gauge	22			Board, Engine Monitor (All)
	100 0000		(R11, R12, R15)		. '		(Includes Fuses)
8	193-0330	1	Gauge, Temperature - Oil,		300-2808	· 1	24 VDC, 2 Light
	100 0000	- 7 t	12 VDC (M15) or		300-2812	1	24 VDC, 12 Light
, *·-	302-1715	1	Tachometer (M16) or	23		2	Fuse, Cartridge - 20 Amp
	302-1723	î	Gauge, Blank	20	011 02/0	-	(F1, F2)
	193-0351	i	Gauge, Temperature - Water,	24	321-0231	1	Fuse, Cartridge - 15 Amp
	130 0001	• •	12 VDC (M12)			•	(F3)
10	193-0352	1	Gauge, Pressure - Oil,	25	321-0094	2	Fuse, Cartridge - 5 Amp
10	193-0332	1	12 VDC (M11)	20	321-0034	£	(F4, F5)
11	302-1790	1	Ammeter (M13)				Attaching Parts for Module
	322-0017	1	Lamp, Incandescent - 28 VDC		815-0544	A	Screw, Machine - Round Head
12	JEL UVII	* .	(DS10,DS11)		510 0044		With IT Lock Washer
10	322-0361	2	Holder, Lamp		1		(#6-32 x 1/2")
		4	Harness, Wiring - Governor	26	3370049	1	Strap, Electrical - Ground
14	· · · ·		to Speed Control & Tachometer	20	557 9045	-	οιταρ, ετεείτιση στουπα
			{Includes Connector Housing}				
	339-2245-01	1	Control with 2 Light Module				
•	338-2243-01	1		1			
	ase=2243=01	1	Control with 12 Light Module				

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Generator Control Components (Sets without Housing Enclosure)

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Generation

REF NO.		QTY USED	PÁRT DESCRIPTION	REF NO		OTY USED	PART DESCRIPTION
1			Harness, Wiring (Includes	· · j	302-1839-09	1	0-300/0-600 Amp
- 1. - -	•	·	Connector and Terminal		302-1839-10	1	0-400/0-800 Amp
- 1		. · · · ·	"Strip)		302-1839-11	1	0-375/0-750 Amp
	338-2240-01	1	Sets with 12 Lead Generator		302-1839-12	1	0-75/0-150 Amp
	338-2241-01	1	Sets with 6 Lead Generator		302-1839-13	1 .	0-100/0-200 Amp
- 2	323-1134	1	Housing, Connector (P21)		302-1839-14	1	0-150/0-300 Amp
	323-1192	- Ă	Contact, Socket		302-1839-15	1.	0-200/0-400 Amp
	323-1195	10 -	Contact, Socket		302-1839-16	1.	0-1500/0-3000 Amp
5 ÷ 1	323-1190	1 -	Key		302-1839-17	1	0-2000/0-4000 Amp
3		ĩ	Terminal Strip (18 Place)		302-1840-01	1	0-1200 Amp
· .	321-0293	5	Fuse F1 thru F5	•	302-1840-02	1	0-1500 Amp
5	321-0294	ī	Holder, Fuse		302-1840-03	1	0-1600 Amp.
<u> </u>	302-1842	1	Meter, Frequency (M23)		302-1840-04	1	0-2000 Amp
· · · · ·	302-1841-03	i .	Voltmeter (M21)	:	302-1840-05	1 .	0-2500 Amp
R		-	Ammeter (M22)		302-1840-07	1	0-3000 Amp
· .	· · ·		Dual Scale		302-1840-08	1	0-4000 Amp
	302-1839-01	1	0-500/0-1000 Amp		302-1840-09	1	0-5000 Amp
1. A. A.	302-1839-02	ī	0-600/0-1200 Amp	9	302-1849	2	Meter, Blank
	302-1839-03	ĩ	0-750/0-1500 Amp	10	308-0883	1	Switch, Rotary (S21)
· · .	302-1839-04	. 1	0-800/0-1600 Amp	11	303-0287	1	Rheostat (R21)
•	302-1839-05	ī	0-900/0-1800 Amp	12	322-0363	1	Light, Indicator - Dual
$\Delta \gamma_{ij}$	302-1839-06	· ī	0-1000/0-2000 Amp				(DS21, DS22)
	302-1839-07	ĩ	0-1200/0-2400 Amp	.13	302-1850	1	Meter, Time Totalizing (M14)
1	302-1839-08	1	0-250/0-500 Amp	14	98-5724	2	Decal (Warning)
		-cont-	· · ·	15	315-0664	3	Transformer, Potentia) (T21 - T23)