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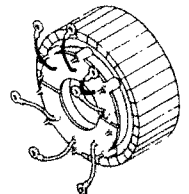
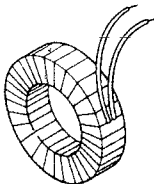
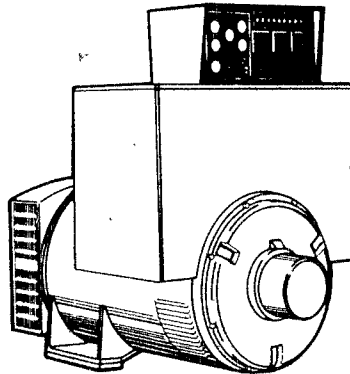
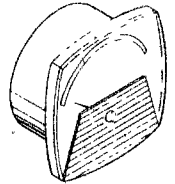
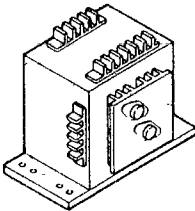
**Cummins  
Power  
Systems**

**Parts Catalog**

**KTA50 Series**

**KTTA50 Series**

**PMG Generator Set**



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## Introduction

This Parts Catalog applies to the Generator 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. Dual Part No. may be applicable; CPS are Cummins Power Systems assigned Part Numbers and GEC are the Cummins Engine Company assigned Part Numbers.

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

### Set Data Table

ENGINE ID. No.	GEN SET ID No	RPM RATING	BATTERY VOLTAGE
Note 1. KTA50-G*#	Note 2 xxxKTA@ - \$	1800 RPM/ 1500 RPM	24 VDC
KTTA50-G*#	xxxKTTA@ - \$	1800 RPM/ 1500 RPM	24 VDC

Note 1 \* - Letter S for Standby, Letter C for Continuous Duty applications  
 Note:1 # - Number 1 thru 9 used to denote size variations  
 Note:2 x - Numbers used to denote kW ratings, eg 230 means 230,000 watt set  
 Note 2 @ - Number used to denote size variations.  
 NOTE:2 \$ - Numbers and a letter used to provide configuration identification

### Electrical Data Table

LOW Y	VOLTAGE HIGH Y	HERTZ	WIRE	PHASE	NOTES
190/110	380/219	60	12	3	
208/120	416/220	60	12	3	
220/127	440/254	60	12	3	
230/133	460/266	60	12	3	
240/139	480/277	60	12	3	
190/110	380/219	50	12	3	
200/115	400/231	50	12	3	
208/120	416/240	50	12	3	

## Engine Replacement Parts

The External Engine Components added or modified during the Generator Set Assembly and most General Maintenance Items are identified in this Parts Catalog. For Internal Engine Parts and Components not covered herein; refer to the applicable Cummins Engine G Drive Parts Catalog.

## 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.



## AC Generator Set Model \_\_\_\_\_

kw	kva	pf	phase
voltage		amps	
duty		overload	
rpm		hz	
class of insulation		pmg voltage	
field amp max		field voltage max	
generator model no.			
voltage regulator model no.			
ID no.			
generator set serial no.			
BS5000		NEMA	

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

### ▲WARNING

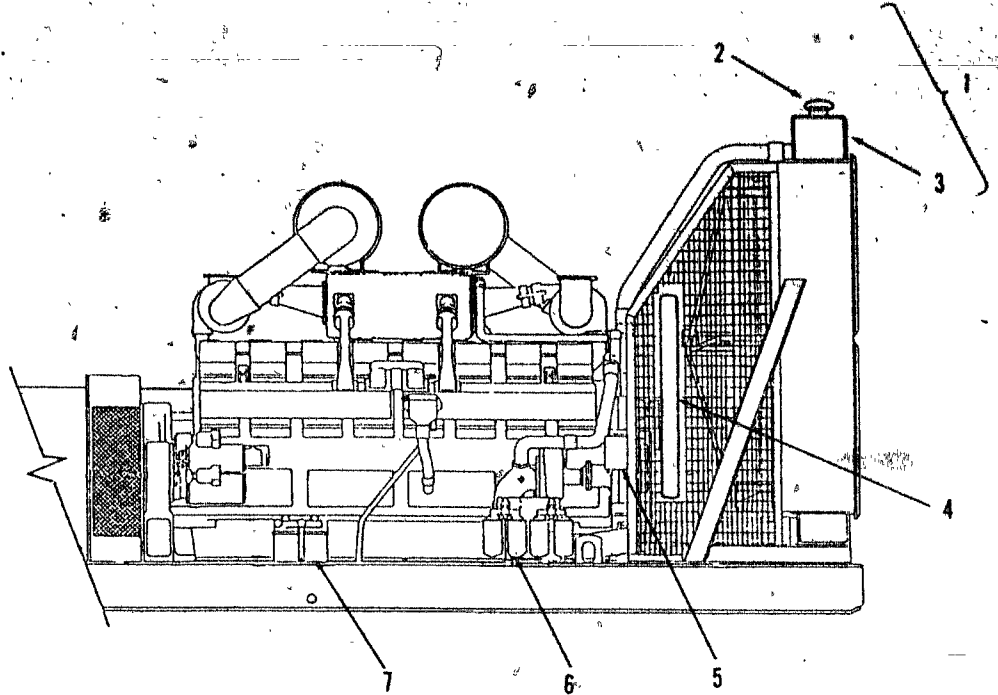
TAKE ALL NECESSARY PRECAUTIONS WHEN CHECKING OR CHANGING ENGINE OIL NOT TO INGEST, BREATHE THE FUMES OR CONTACT THE OIL. USED ENGINE OILS HAVE BEEN IDENTIFIED BY FEDERAL AND SOME STATE AGENCIES AS CAUSING CANCER.

### ▲WARNING

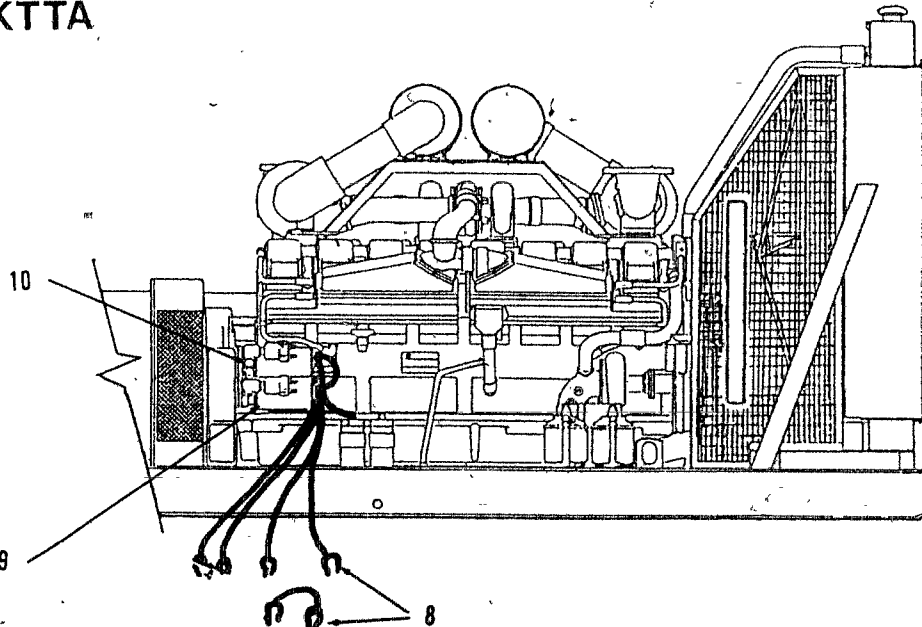
TAKE ALL NECESSARY PRECAUTIONS WHEN HANDLING ENGINE GASKETS. DO NOT INGEST, BREATHE, OR CONTACT DUST FROM GASKETS. USE ADEQUATE VENTILATION AND WEAR PROTECTIVE GLOVES, MASK AND CLOTHING. ASBESTOS HAS BEEN IDENTIFIED BY FEDERAL AND SOME STATE AGENCIES AS CAUSING CANCER.

External Engine Components  
Left Side

KTA



KTTA



## External Engine Components Left Side

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	Note 1 Note 2  None Built		1	Cooling System - Radiator Spec A & B & D Spec C KTA50G1, G2 (Bearward# 53071A-4PA) KTA50G3, G4 KTTA50G1 (Bearward# 53071-5PA)
2	130-0523 130-2981 130-3395		1	Cap. Radiator 7 PSI (For 2" Fill Tube) 7 PSI (For 3" Fill Tube) 10 PSI (For 2" Fill Tube)
3			1	Radiator (Includes Front Guards, Excludes Cap) Spec A & B & D Standard Cooling 40°C/100°F KTA50G1 with Dry Manifold KTA50G1 with Wet Manifold KTA50G2 with Dry or Wet Manifold KTA50G3 & G4 Dry Manifold (No Wet Manifold Application) KTTA50G with Dry Manifold (No Wet Manifold Application) Hi Ambient Cooling 50°C/125°F KTA50G1 with Dry or Wet Manifold KTA50G2 with Dry or Wet Manifold KTA50G3 & G4 Dry Manifold (No Wet Manifold Application) KTTA50G with Dry Manifold (No Wet Manifold Application) Spec C Standard or Hi Ambient Cooling KTA50G1 with Dry Manifold KTA50G2 with Dry Manifold KTA50G3 & G4 with Dry Manifold KTTA50G with Dry Manifold
	130-3405 130-3405 N/A 130-3406	3050213 3050212 3050212 3050212 3050212 3050212 3050212 3050212		
4			1	Belt, Drive (Fan) Spec A & B & D All Models Spec C All Models
		3003467 3003341		
5	191-1846-01 130-3317-01 511-0163	3016627 201986 3040283	1 1 2	Charging System Components Alternator (35 Amp, 24 VDC) Pulley, Drive Belt, Drive
6	Note 3 130-3538 130-3541	3318201 3318318	4	Filter, Water - W/Corrosion Inhibiting Chemical DCA4 Service for 90&up Gal Cooling Systems Pre-Charging for 90 & up Gal Cooling Systems
7	122-0526	3313283	2	Filter, Oil - Bypass
8	416-0473 416-0444 416-0680		2 4 3	Cables & Leads Cable, Battery - Jumper Cable, Battery (44" Lg) Lead, Electrical
9		3010125	2	Starter, 24 VDC
10	307-2621-02	3050692	1	Switch, Magnetic

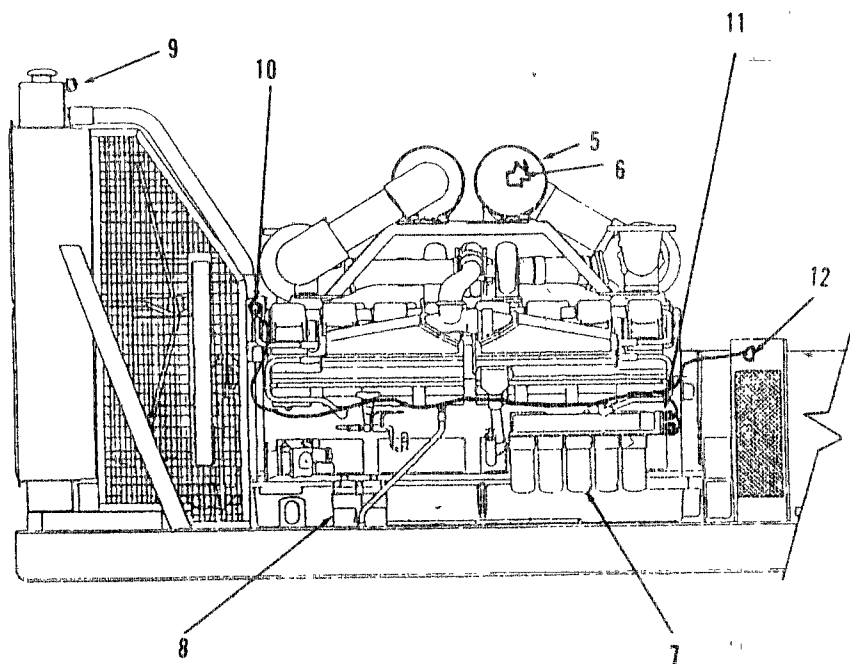
### NOTES:

- Spec A & B & D Cooling Systems Assembled at Cummins Engine Company. For replacement components refer to the applicable Engine G-Drive Parts Manuals
- Spec C Cooling Systems Installed at Cummins Power System Facilities and is Supplied by Bearward. Consult with Bearward for additional replacement components.  

BEARWARD ENGINEERING LTD  
Main Road, Far Cotton  
Northampton, England NN4 9HU

USA Office: BEARWARD RADIATOR  
Route 22 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 cooling system problems.

**K**

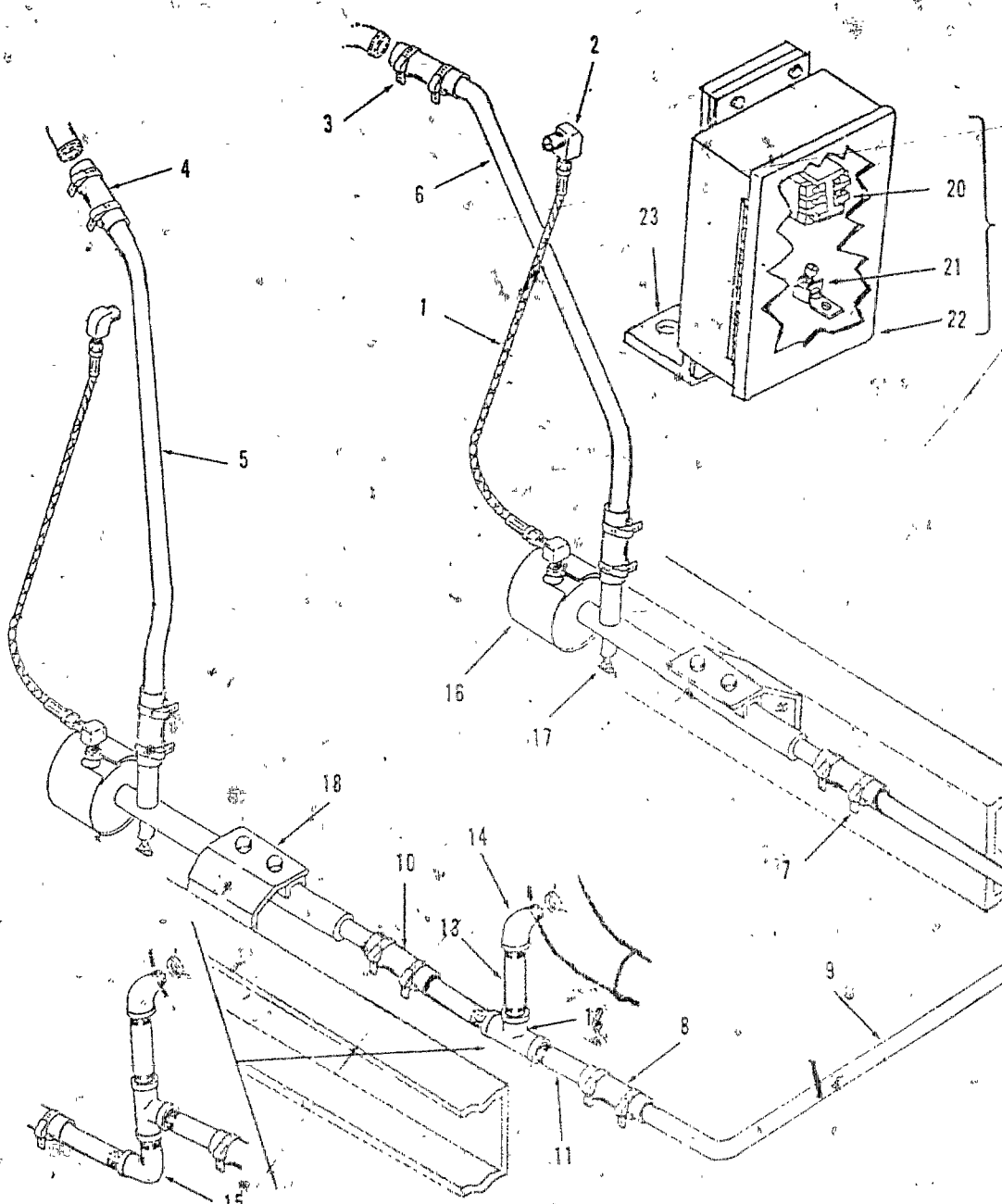


## External Engine Components Right Side

REF NO.	CPS PART NO.	GEO* PART NO.	QTY USED	PART DESCRIPTION
1	140-2226	178957	2	Indicator, Air Restriction (Includes Fitting)
2			2	Cap. Air Cleaner (Select as Applicable)
	140-2264	3028847		For 8" Tube Inlet
	140-2364	3017003		For 8" Tube Inlet
	140-2352	3058481		For 10" Tube Inlet
3			2	Air Cleaner (Includes Element(s) unless A Disposable Type)
				KTA50G1 & G2
	140-2264	3028847		Indoor (16"OD, 7"OD Outlet)
	140-2363	3017002		Outdoor (16"OD, 8"OD Inlet, 7"OD Outlet)
	140-2345-02	3015349		Heavy Duty (Rectangular Shape, 8"OD Outlet)
				KTA50G3 & G4
	140-2413	3050498		Indoor (13 1/2"OD, Disposable)
	140-2349	3058474		Heavy Duty (18"OD, 10"OD Inlet, 8"OD Outlet)
4				Element(s), Air Cleaner
			2	KTAG1 & G2
	140-2402	3010842		Indoor & Outdoor
	140-2408	3013212		Heavy Duty Primary
	140-2407	3013213		Heavy Duty Safety
				KTAG3 & G4
	140-2411	3060222		Heavy Duty Primary
	140-2412	3060223		Heavy Duty Safety
5			2	Air Cleaner (Includes Elements(s) unless Disposable Type)
				KTTA50G1
	140-2413	3050498		Indoor (13 1/2"OD, Disposable)
	140-2349	3058474		Heavy Duty (18"OD, 10"OD Inlet, 8"OD Outlet)
6			2	Element(s), Air Cleaner
				KTTA50G1
	140-2411	3060222		Heavy Duty Primary
	140-2412	3060223		Heavy Duty Safety
7	122-0757	3310169	5	Filter, Oil
8	149-2232	299202	2	Filter, Fuel
9			1	Switch & Harness - Low Coolant Level
	309-0579-03	3046031		Switch, Low Coolant Level
	338-2393	3050414		Harness, Wiring
10				Switch, Sender & Harness - Engine Coolant Temperature Items
	302-1854	3015238	2	Transducer (Sender) - Temperature (All Specs)
	Note 1			Spec A, B & C OLD STYLE (Nason)
	309-0570	3034866	1	Switch, Temperature - Alarm, Low Temp (2 Wire Harness)
	309-0569-04	3048725	1	Switch, Temperature - Shutdown, Hi Temp (2 Wire Harness)
	309-0572-02	3048727	1	Switch, Temperature - Alarm & Shutdown (4 Wire Harness)
	Note 1			Spec A,B,C & D NEW STYLE (Robert-Shaw); Spec A,B,C Require Adapter Harness for interface with Engine Wiring Harness)
	309-0596-06	3056355	1	Switch, Temperature - Alarm (u/w 338-2471 Forked Harness)
	309-0596-04	3056353	1	Switch, Temperature - Shutdown (u/w 338-2471 in Dual Switch Applications or with 338-2473 Harness in Single Application)
	338-2471	3066834	1	Harness, Wiring (Spec A,B,C Single Switch Application)
	338-2473	3066832	1	Harness, Wiring - Forked (Spec A,B,C Dual Switch Application)
11				Switch, Sender & Harness - Engine Oil Pressure
	302-1853	3015237	1	Transducer (Sender) - Pressure (All Specs)
	Note 1			Spec A, B & C OLD STYLE (Nason)
	309-0565-01	3034864	1	Switch - Shutdown with 3 Wire Harness (12PSI)
	309-0566	3034863	1	Switch - Alarm & shutdown with 4 Wire Harness (12/18PSI)
	Note 1			Spec A,B,C & D NEW STYLE (Robert-Shaw); Spec A,B,C Require Adapter Harness for interface with Engine Wiring Harness)
	309-0595-02	3056344	1	Switch, Pressure - Alarm (u/w 338-2470 Forked Harness)
	309-0595-03	3056345	1	Switch, Pressure - Shutdown (u/w 338-2470 in Dual Switch Application or with 338-2472 in Single Application)
	338-2472	3066830	1	Harness, Wiring (Spec A,B,C Single Switch Application)
	338-2470	3066835	1	Harness, Wiring (Spec A,B,C Dual Switch Application)
12				Harness, Wiring - Engine
	338-2389-02	3053027	1	Spec A, B & C
	338-2052-02	3062872	1	Spec D

NOTE: 1. New Style Switches introduced During Spec B & C Gen Set Assembly and Standard on Spec D Gen Sets during 1988. Replacement of old style (NASON) items with new style (ROBERT-SHAW) items Recommended by Cummins Engine Company Engineering.

# Dual Engine Coolant Heaters, Spec A & B & D (Watlow Type)

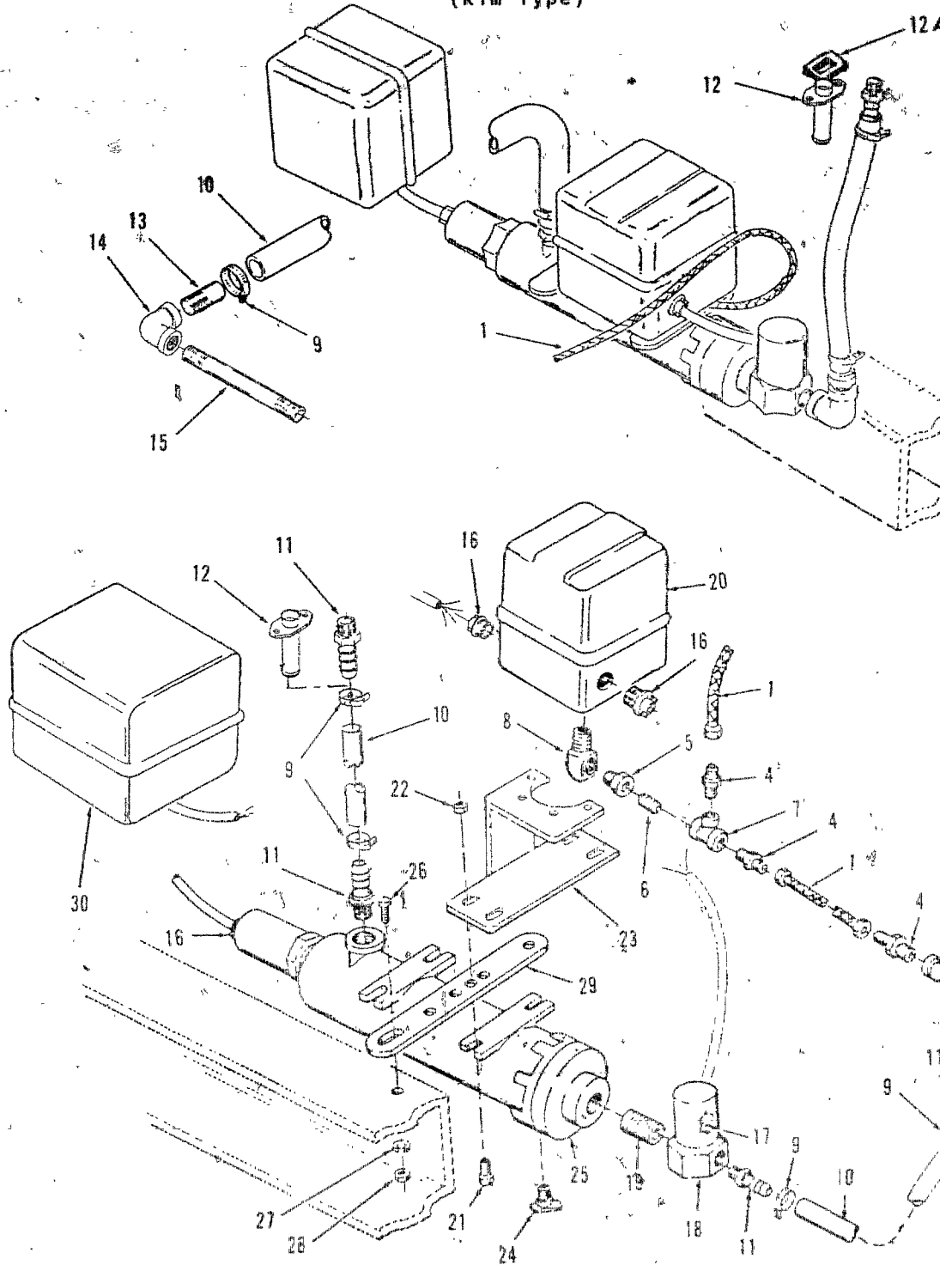


# **Dual Engine Coolant Heaters** **Spec A & B & D** **(Watlow Type)**

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	501-0537-03	A540325S	2	Hose Assembly - Oil Pressure (Select as required)
		A54040SS		32" Lg
	501-0537-07	A54050SS		40" Lg
	501-0537-26	A54060SS		50" Lg
	502-1043-01	68139		60" Lg
2	503-1603	43828A	4	Elbow, Pipe - Male, 90 DEG
3	503-1602	3027706	8	Clamp, Hose
4	130-3339	3060899	4	Hose, Rubber
5	130-3340	3060900	1	Tube, Water
6	503-1603	43828A	1	Tube, Water
7		200517	6	Clamp, Hose
8		3056251	2	Hose, Rubber
9		3009805	1	Tube, Water
10		153409	1	Hose, Rubber
11		3056256	2	Nipple, Pipe - Half
12		5912C	1	Tee, Pipe
13		5906C	1	Nipple, Pipe
14		3056257	1	Elbow, Pipe - Street - 90°
15			1	Elbow, Pipe - Street - 90° (Used on some installations)
16	Note 1.		2	Heater, Electrical - Coolant (Includes Thermostat, Drain Cock, Mounting Nuts and may or may not include pressure switch)
	333-0389-06	3053979		With Oil Pressure Switch
	333-0389-04	3056184		120 VAC, 4000 Watt
				480 VAC, 4000 Watt
	333-0413-09	3063630		Without Oil Pressure Switch
	333-0413-08	3063473		120 VAC, 4000 Watt
	333-0413-10	3063631		208 VAC, 4000 Watt
				480 VAC, 4000 Watt
	800-0222	S114	4	Attaching Parts for Heater
	850-0101	S600	4	Screw, Cap - Hex Head (1/4-20 x 3/4")
	402-0608	3035083	4	Washer, Lock - Spring (1/4")
	402-0609	3035084	4	Isolator, Vibration
17	504-0003	S923E	4	Isolator, Vibration
18	130-3189	3056255	2	Cock, Drain (1/4 NPT)
				Bracket, Mounting - Heater
	800-0210	S1030	2	Attaching Parts for Bracket
	850-0103	S604	8	Screw, Cap - Hex Head (3/8-16 x 1-1/4)
	871-0028	S254	8	Washer, Lock - Spring (3/8")
		3063475	8	Nut, Hex - Brass (3/8-16)
19		3063477	2	Switch, Control - Heater (Includes Contactor, Ground Lug and Box)
20	Note 2		1	Contactor (50 AMP, 3 Pole, SPST, 120 VAC Coil)
21	Note 3.		1	Lug, Ground
22			1	Box, Electrical
23		3063476	2	Bracket, Mounting - Box
	800-0222	S114	2	Attaching Parts for Brackets
	850-0101	S600	8	Screw, Cap - Hex Head (1/4-20 x 3/4")
	862-0031	S224	8	Washer, Lock - Spring (1/4")
				Nut, Hex (1/4-20)

NOTE: 1. Heaters and Controls Manufactured by Watlow Industries Inc  
 Div. of Watlow Electric Co Hannibal, Mo  
 2. Watlow No. 191-16-6-1  
 3. Watlow No. 303-62-29-29

# Dual Engine Coolant Heaters Spec C (Kim Type)



# **Dual Engine Coolant Heaters** **Spec C** **(Kim Type)**

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	501-0199		2	Line, Fuel - Flexible
2	505-0037		1	Elbow - 90 Degree (1/8 NPT)
3	505-0104		1	Nipple, Pipe - Close (1/8 NPT x 1-1/2")
4	502-0193		4	Adapter, Hex - Pipe to Line
5	505-0007		2	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)
6	505-0098		1	Nipple, Pipe - Close (1/8 NPT x 3/4")
7	505-0059		1	Tee, Pipe (1/8 NPT)
8	502-0054		2	Elbow, Pipe - Street, 90 Degree (1/8 NPT)
9	503-0398		8	Clamp, Hose
10	503-0249		AR	Hose, Rubber - Bulk (1"ID x 1-3/8"OD) [Sold in Multi Foot lengths, order length as required]
11	505-0759		7	Adapter, Hose to Pipe
12	130-3200	3178301	2	Adapter, Hose with Flange (Used on some applications)
12A		3177556	2	Seal - Rectangular Ring
13	505-0324		1	Nipple, Pipe - Half (3/4 NPT x 2")
14	505-0132		1	Elbow, Pipe - Street, 90 Degree (3/4 NPT)
15	505-0438		1	Nipple, Pipe (3/4 NPT x 8")
16	331-0027		12	Clamp, Cable
17				Terminals
	323-0957		4	Nut, Wire
	332-0014		8	Lug, Terminal - Ring (#10)
	332-0149		8	Lug, Terminal - Ring (#8)
18				Switch, Thermostatic
	309-0490		2	100° - 120° Fahrenheit
	309-0253		2	120° - 140° Fahrenheit
19	505-0004		2	Nipple, Pipe - Close (3/4 NPT x 1-1/2")
20	309-0271		2	Switch, Pressure - Oil
				Attaching Parts for Switch
	812-0079		8	Screw, Machine - Round Head (#8-32 x 1/2")
	854-0007		8	Washer, Lock - ET (#8)
21	800-0008		4	Screw, Cap - Hex Head (1/4-20 x 1-1/4")
22	870-0212		4	Nut, Self-locking - Hex (1/4-20)
23	333-0224		2	Bracket, Support - Pressure Switch
24	504-0003		2	Cock, Drain
25				Heater, Electrical
	333-0143		2	4000 Watt, 208 VAC - 1 Phase
	333-0164		2	4000 Watt, 208 VAC - 3 Phase
	333-0138		2	4000 Watt, 240 VAC - 1 Phase
	333-0190		2	4000 Watt, 240 VAC - 3 Phase
	333-0150		2	4000 Watt, 277 VAC - 1 Phase
	333-0183		2	4000 Watt, 380 VAC - 1 Phase
	333-0174		2	4000 Watt, 380 VAC - 3 Phase
	333-0161		2	4000 Watt, 480 VAC - 1 Phase
	333-0144		2	4000 Watt, 480 VAC - 3 Phase
26	821-0030		8	Screw, Self-locking - Hex Head (5/16-18 x 1-1/4")
27	850-0045		8	Washer, Lock - Spring (5/16")
28	862-0015		8	Nut, Hex (5/16-18)
29	130-1191		4	Bracket, Mounting
30				Contactors
	307-1460		2	230 VAC, 3 Pole
	307-1164		2	460 VAC, 3 Pole

## GENERATOR SECTION

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# **GENERATOR TABLE** **SPEC A & B & D**

## **Low Range Generators**

OPTION CODE	FRAME SIZE	ADPTR SAE	DISK SAE	LEAD	KW RATING	VOLTAGE AT 60 HERTZ					AT 50 HERTZ		
						380 190	416 208	440 220	460 230	480 240	380 190	400 200	416 208
MG8320	6 AS	0	18	6	Standby Prime Pwr	610 575	640 600	660 625	680 640	700 650	540 500	550 515	570 525
MG8321	6 A	0	18	6	Standby Prime	670 625	700 650	740 675	770 710	800 730	610 555	630 580	650 600
MG8322	6 B	0	18	6	Standby Prime Pwr	750 680	800 730	830 770	860 800	900 820	680 620	700 640	720 660
MG8323	6 C	0	18	6	Standby Prime Pwr	880 820	920 850	960 880	1000 920	1050 950	800 730	825 750	840 765
MG8324	6 D	0	18	6	Standby Prime Pwr	950 880	1000 950	1050 990	1100 1020	1150 1050	875 800	900 825	920 850
MG8326	6 A	0	18	12	Standby Prime Pwr	670 625	700 650	740 675	770 710	800 730	610 555	630 580	650 600
MG8327	6 B	0	18	12	Standby Prime Pwr	750 680	800 730	830 770	860 800	900 820	680 620	700 640	720 660
MG8328	6 C	0	18	12	Standby Prime Pwr	880 820	920 850	960 880	1000 920	1050 950	800 730	825 750	840 765
MG8329	6 D	0	18	12	Standby Prime	950 880	1000 950	1050 990	1100 1020	1150 1050	875 800	900 825	920 850
MG8330	7 A	0	18	6	Standby Prime Pwr	1120 1030	1175 1075	1200 1110	1225 1125	1250 1150	1000 920	1050 950	1075 975
MG8331	7 B	0	18	6	Standby Prime	1300 1200	1350 1250	1420 1300	1475 1350	1500 1375	1120 1030	1160 1050	1180 1075
MG8332	7 C	0	18	6	Standby Prime Pwr	1660 1525	1700 1600	1775 1650	1850 1725	1875 1800	1450 1350	1525 1400	1600 1450

## **Medium Range Generators**

OPTION CODE	FRAME SIZE	ADPTR SAE	DISK SAE	LEAD	KW RATING	VOLTAGE AT 60 HERTZ	AT 50 HERTZ
						4160/2400	3300/1905
MG8333	7 A	0	18	6	Standby Prime Pwr	540 500	430 400
MG8334	7 B	0	18	6	Standby Prime Pwr	810 750	650 600
MG8335	7 C	0	18	6	Standby Prime	1060 1000	860 800
MG8336	7 D	0	18	12	Standby Prime Pwr	1620 1500	1300 1200

# GENERATOR TABLE SPEC C

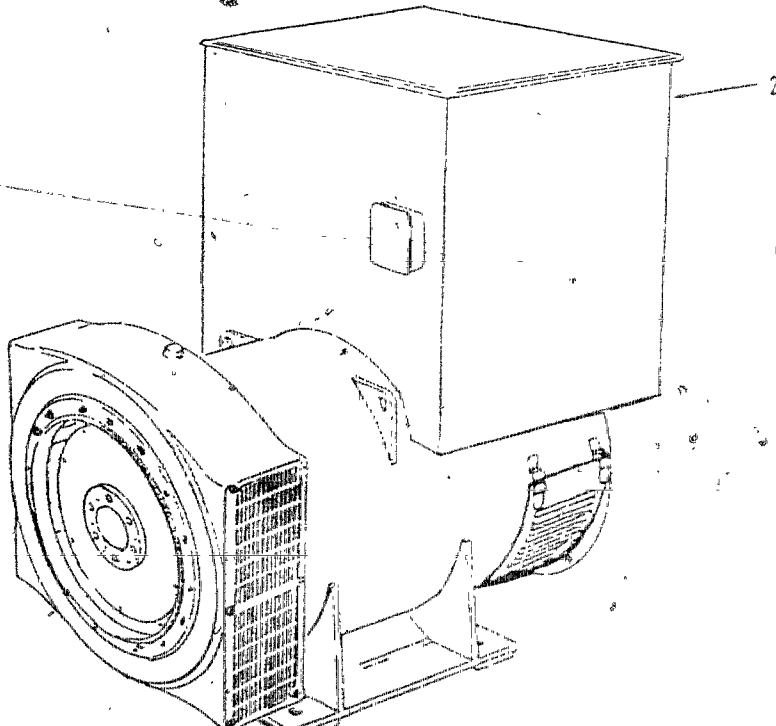
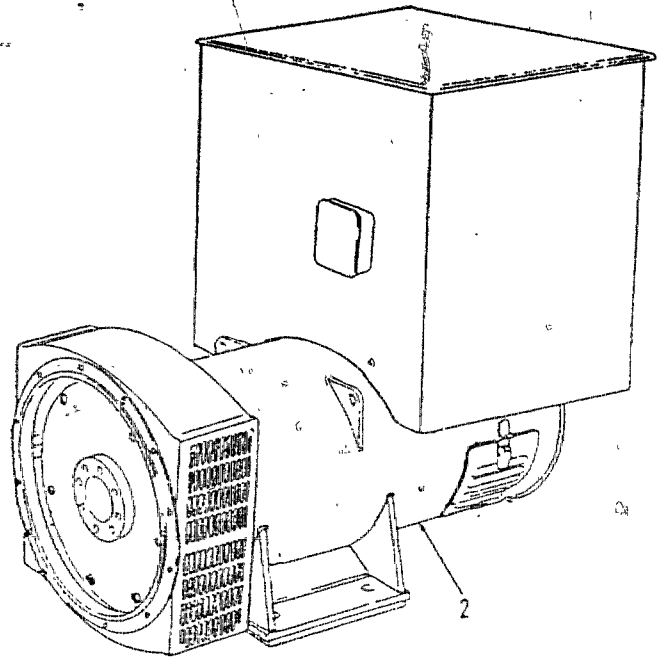
## Low Range Generators

OPTION CODE	FRAME SIZE	ADPTR SAE	DISK SAE	LEAD	KW RATING	VOLTAGE AT 60 HERTZ					AT 50 HERTZ		
						380 190	416 208	440 220	460 230	480 240	380 190	400 200	416 208
9MG0020	6 AS	0	18	6	Standby	610	640	660	680	700	540	550	570
					Prime Pwr	575	600	625	640	650	500	515	525
9MG0021	6 A	0	18	6	Standby	670	700	740	770	800	610	630	650
					Prime	625	650	675	710	730	555	580	600
9MG0022	6 B	0	18	6	Standby	750	800	830	860	900	680	700	720
					Prime Pwr	680	730	770	800	820	620	640	660
9MG0023	6 C	0	18	6	Standby	880	920	960	1000	1050	800	825	840
					Prime Pwr	820	850	880	920	950	730	750	765
9MG0024	6 D	0	18	6	Standby	950	1000	1050	1100	1150	875	900	920
					Prime Pwr	880	950	990	1020	1050	800	825	850
9MG0026	6 A	0	18	12	Standby	670	700	740	770	800	610	630	650
					Prime Pwr	625	650	675	710	730	555	580	600
9MG0027	6 B	0	18	12	Standby	750	800	830	860	900	680	700	720
					Prime Pwr	680	730	770	800	820	620	640	660
9MG0028	6 C	0	18	12	Standby	880	920	960	1000	1050	800	825	840
					Prime Pwr	820	850	880	920	950	730	750	765
9MG0029	6 D	0	18	12	Standby	950	1000	1050	1100	1150	875	900	920
					Prime	880	950	990	1020	1050	800	825	850
9MG0030	7 A	0	18	6	Standby	1120	1175	1200	1225	1250	1000	1050	1075
					Prime Pwr	1030	1075	1110	1125	1150	920	950	975
9MG0031	7 B	0	18	6	Standby	1300	1350	1420	1475	1500	1130	1160	1180
					Prime	1200	1250	1300	1350	1375	1030	1050	1075
9MG0032	7 C	0	18	6	Standby	1660	1700	1775	1850	1875	1450	1525	1600
					Prime Pwr	1525	1600	1650	1725	1800	1350	1400	1450

## Medium Range Generators

OPTION CODE	FRAME SIZE	ADPTR SAE	DISK SAE	LEAD	KW RATING	VOLTAGE AT 60 HERTZ	AT 50 HERTZ
						4160/2400	3300/1905
9MG8333	7 A	0	18	6	Standby		430
					Prime Pwr	540 500	400
9MG8334	7 B	0	18	6	Standby		650
					Prime Pwr	810 750	600
9MG8335	7 C	0	18	6	Standby		860
					Prime	1080 1000	800
9MG8336	7 D	0	18	12	Standby		1300
					Prime Pwr	1620 1500	1200

**Generators**  
**Frames 6 & 7**  
**SAE 0 / SAE 18**

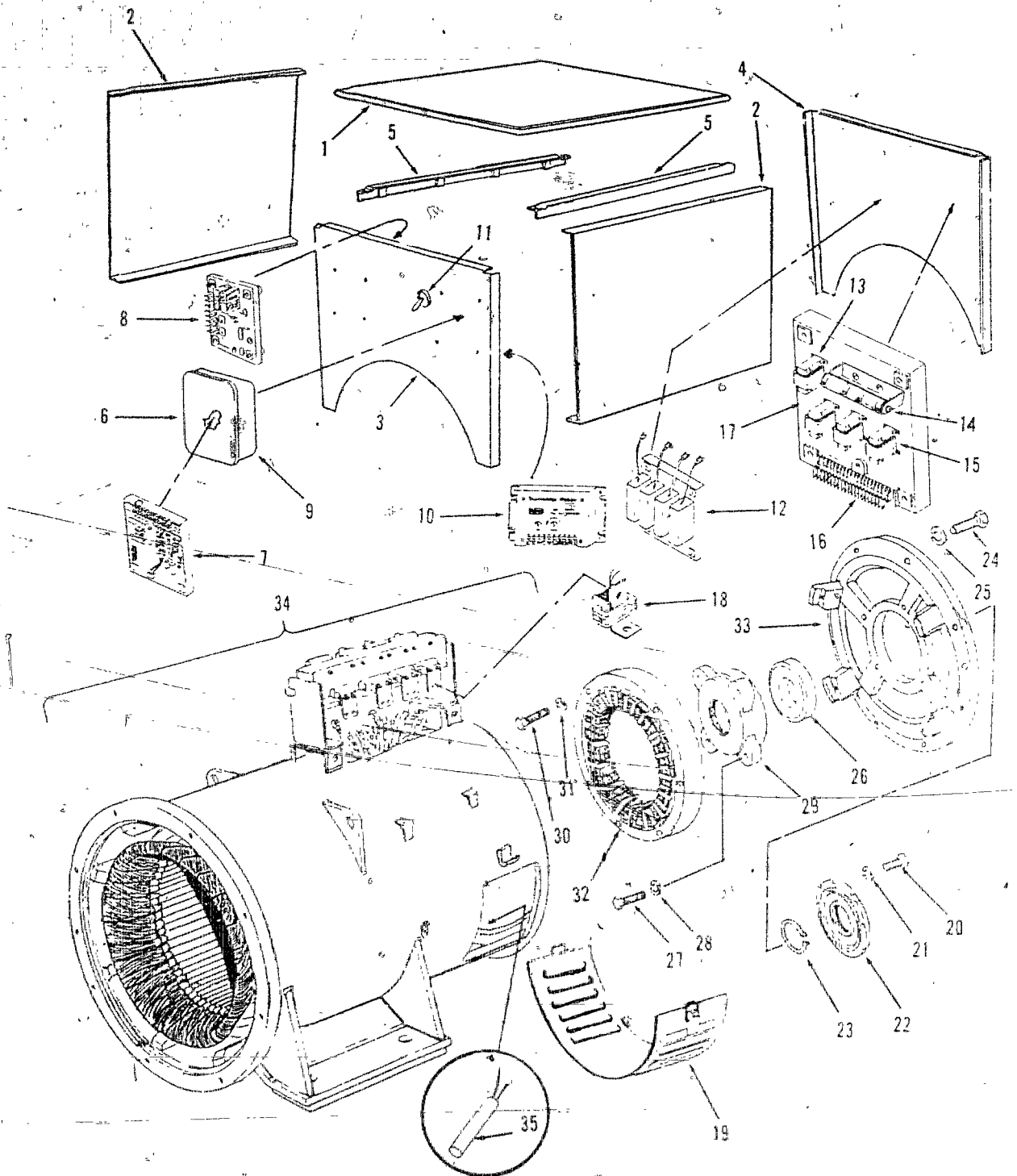


**Generators**  
**Frames 6 & 7**  
**SAE 0 / SAE-18**

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1			1	Module, Permanent Magnet Exciter (See Separate Page for Components)
	249-0298		4	Attaching Parts For Module
	249-0218		4	Screw, Cap - Hex Head (M8 x 16mm)
	249-0315		4	Washer, Lock (M8)
	Note 1		4	Clamp, Retaining
2				Generator (Includes PMG Exciter) (See Separate Pages for Stator and Rotor Components)
				Attaching Parts Generator To Skid
				Frame 6 and 7
	800-0242	S161	4	Screw, Cap - Hex Head (1-8 x 3-1/2")
	850-0109	S613	4	Washer, Lock - Spring (1")
	526-0360	146180	8	Washer, Flat (1")
	370-4045	3025064	4	Spacer (frame 6 only)
	370-4046-01	125356	4	Shim
	370-4046-02	125357	4	Shim
	370-4046-03	125358	4	Shim
	862-0037	S222	4	Nut, Hex (1-8)
				Attaching Parts Adapter to Flywheel Housing
				Frame 6
	800-0215	S113	2	Screw, Cap - Hex Head (1/2-13 x 1-1/2")
	800-0236	S106	14	Screw, Cap - Hex Head (1/2-13 x 1-3/4")
	850-0105	S608	16	Washer, Lock - Spring (1/2")
				Frame 7
	800-0236	S106	12	Screw, Cap - Hex Head (1/2-13 x 1-3/4")
	850-0105	S608	12	Washer, Lock - Spring (1/2")
	800-0242	S161	4	Screw, Cap - Hex Head (1-8 x 3-1/2")
	850-0109	S613	4	Washer, Lock - Spring (1-8")
				Attaching Parts Drive Disc to Flywheel
				Frame 6
	815-0719	206332	8	Screw, Cap - 12 Point Drive (5/8-11 x 1-1/4")
	526-0362	200861	8	Washer, Flat (5/8)
				Frame 7
	815-0728	206331	8	Screw, Cap - 12 Point Drive (5/8-11 x 1-1/4")
	526-0362	200861	8	Washer, Flat (5/8)

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

# Generator Stator Section Frame 6

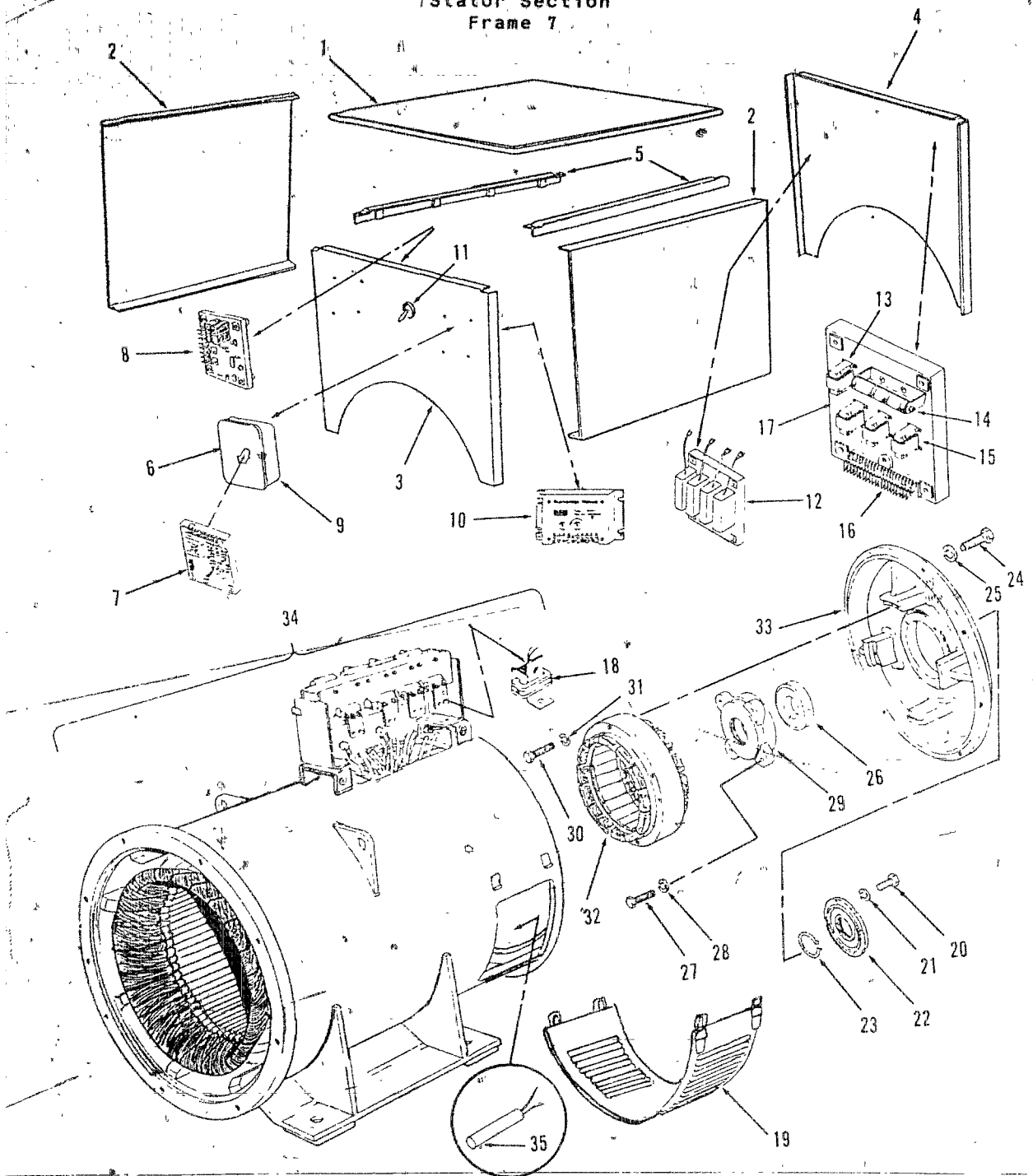


# Generator Stator Section Frame 6

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	Note 1		1	Lid
2	Note 1		2	Panel, Side
3	Note 1		1	Panel, Front
4	Note 1		1	Panel, Rear
5	Note 1		2	Bracket, Angle
6	249-0425		2	Lid
	249-0304		8	Attaching Parts Screw, Captive
7	305-0770		1	Regulator, Voltage Standard
	305-0778		1	3 Phase (Used with 3 Phase Sensing Module)
	305-0803		1	Manual
	249-0398		4	Attaching Parts Pillar, Threaded
8	300-3278		1	Module, 3 Phase Sensing
	249-0398		4	Attaching Parts Pillar, Threaded
9	249-0395		2	Box
10	305-0822		1	Module, Overvoltage
	249-0295		4	Attaching Parts Screw, Cap - Hex Head (M5 x 35mm)
	249-0288		4	Washer, Plastic (M5)
	249-0287		4	Nut, Hex - Nylon (M5)
11	249-0449		1	Switch
12	249-0569		1	RFI Suppressor Assy
13	302-1851		1	Choke
14	354-0031		1	Resistor, Adjustable
15	249-0504		3	Transformer, Voltage Sensing
16	249-0289		3	Block, Terminal
17	249-0424		1	Panel, Terminal Block Mounting
18	302-1852-02		3	Transformer, Current
19	249-0513		1	Grille, Inlet - Air
20	249-0243		4	Screw, Cap - Hex Head (M10 x 30mm)
21	249-0202		4	Washer, Lock - Spring (M10)
22	249-0510		1	Cap, Bearing - Outer
23	249-0447		1	Circlip
24	249-0204		8	Screw, Cap - Hex Head (M12 x 40mm)
25	249-0205		8	Washer, Lock - Spring (M12)
26	249-0448		1	Bearing, Ball
27	249-0245		4	Screw, Cap - Hex Head (M10 x 50mm)
28	249-0202		4	Washer, Lock - Spring (M10)
29	249-0509		1	Cap, Bearing - Inner
30	249-0445		6	Screw, Cap - Hex Head (M6 x 85mm)
31	249-0212		6	Washer, Lock - Spring (M6)
32	249-0470		1	Stator, Exciter
33	249-0527		1	Bracket, End
34	Note 1		1	Stator, Generator (Includes Terminal Studs and Links)
	249-0204		8	Attaching Parts Stator to Adapter Screw, Cap - Hex Head (M12 x 40mm)
	249-0205		8	Washer, Lock - Spring (M12)
35	249-0621		1	Heater, Electrical - Replacement 70 Watt, 120 VAC
	249-0622		1	70 Watt, 240 VAC

Notes: 1. Items not stocked, replacement available only on special order with long lead time likely.

# Generator /Stator Section Frame 7

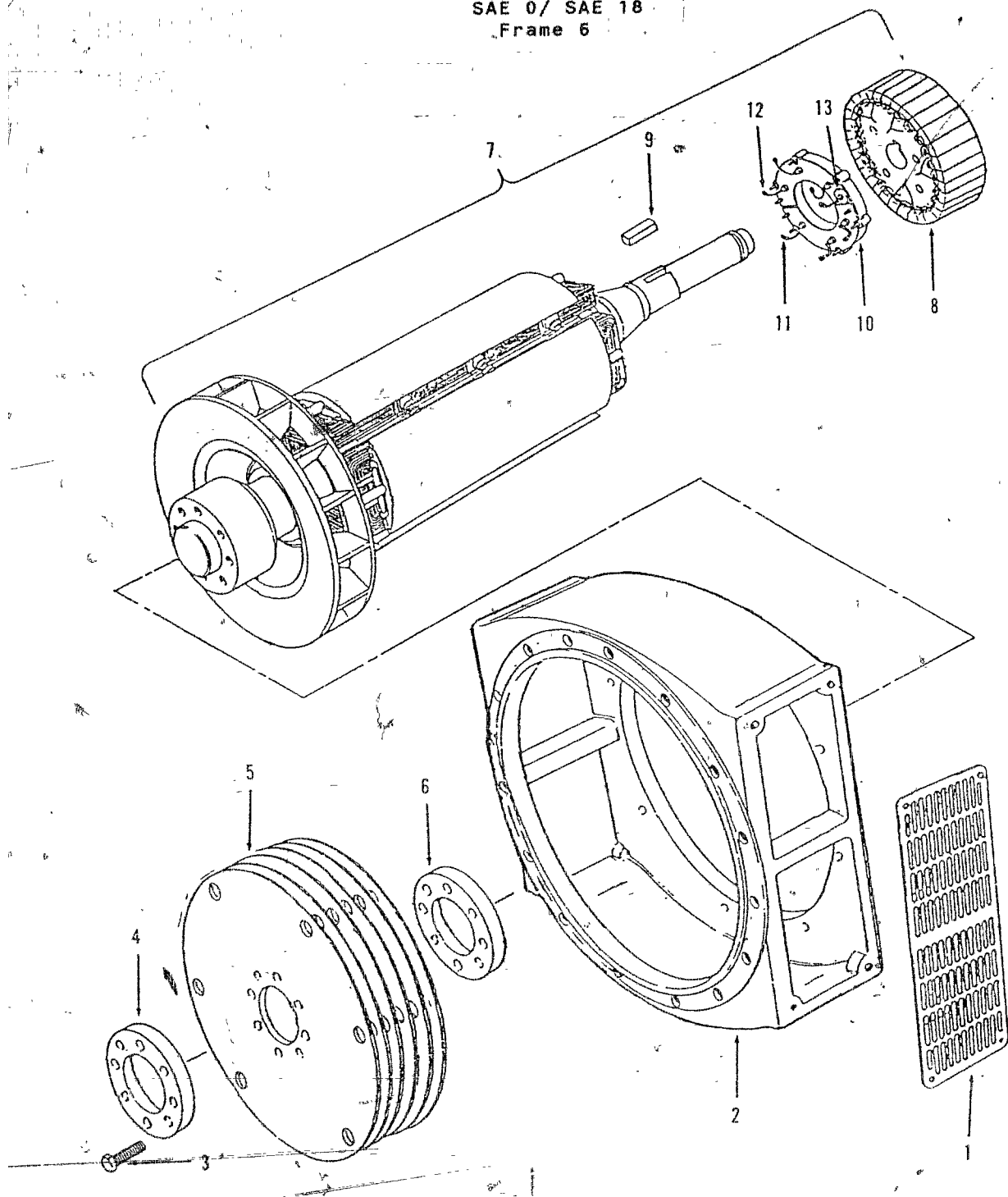


# Generator Stator Section Frame 7

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	Note 1		1	Lid
2	Note 1		2	Panel, Side
3	Note 1		1	Panel, Front
4	Note 1		1	Panel, Rear
5	Note 1		2	Bracket, Angle
6	249-0425		2	Lid
				Attaching Parts
	249-0304		8	Screw, Captype
7				Regulator, Voltage
	305-0770		1	Standard
	305-0778		1	3 Phase (Used with 3 Phase Sensing Module)
	305-0803		1	Manual
				Attaching Parts
	249-0398		4	Pillar, Threaded
8	300-3278		1	Module, 3 Phase Sensing
				Attaching Parts
	249-0398		4	Pillar, Threaded
9	249-0395		2	Box
10	305-0822		1	Module, Overvoltage
				Attaching Parts
	249-0295		4	Screw, Cap - Hex Head (M5 x 35mm)
	249-0288		4	Washer, Plastic (M5)
	249-0287		4	Nut, Hex - Nylon (M5)
11	249-0449		1	Switch
12	249-0569		1	RFI Suppressor Assy
13	302-1851		1	Choke
14	354-0031		1	Resistor, Adjustable
15				Transformer
	302-1884		3	Voltage Sensing (Used on Standard Voltage Generators)
	302-1876		3	Isolation (Used on Medium Voltage Generators)
16	249-0289		3	Block, Terminal
17	249-0424		1	Panel, Terminal Block Mounting
18				Transformer, Current
	302-1852-01		3	Used on Standard Voltage Generators
	302-1852-03		3	Used on Medium Voltage Generators
19	249-0583		1	Grille, Inlet - Air
20	249-0243		4	Screw, Cap - Hex Head (M10 x 30mm)
21	249-0202		4	Washer, Lock - Spring (M10)
22	249-0510		1	Cap, Bearing - Outer
23	249-0447		1	Circlip
24	249-0204		8	Screw, Cap - Hex Head (M12 x 40mm)
25	249-0205		8	Washer, Lock - Spring (M12)
26	249-0448		1	Bearing, Ball
27	249-0245		4	Screw, Cap - Hex Head (M10 x 50mm)
28	249-0202		4	Washer, Lock - Spring (M10)
29	249-0509		1	Cap, Bearing - Inner
30	249-0438		6	Screw, Cap - Hex Head (M6 x 85mm)
31	249-0218		6	Washer, Lock - Spring (M6)
32	249-0470		1	Stator, Exciter
33	249-0471		1	Bracket, End
34	Note 1		1	Stator, Generator (Includes Terminal Studs and Links)
				Attaching Parts Stator to Adapter
	249-0204		8	Screw, Cap - Hex Head (M12 x 40mm)
	249-0205		8	Washer, Lock - Spring (M12)
35				Heater, Electrical - Replacement
	249-0621		1	70 Watt, 120 VAC
	249-0622		1	70 Watt, 240 VAC

Notes: 1. Item not stocked, replacement may be available only by special order with a long lead time, likely

Generator  
Rotor Section  
SAE 0/ SAE 18  
Frame 6

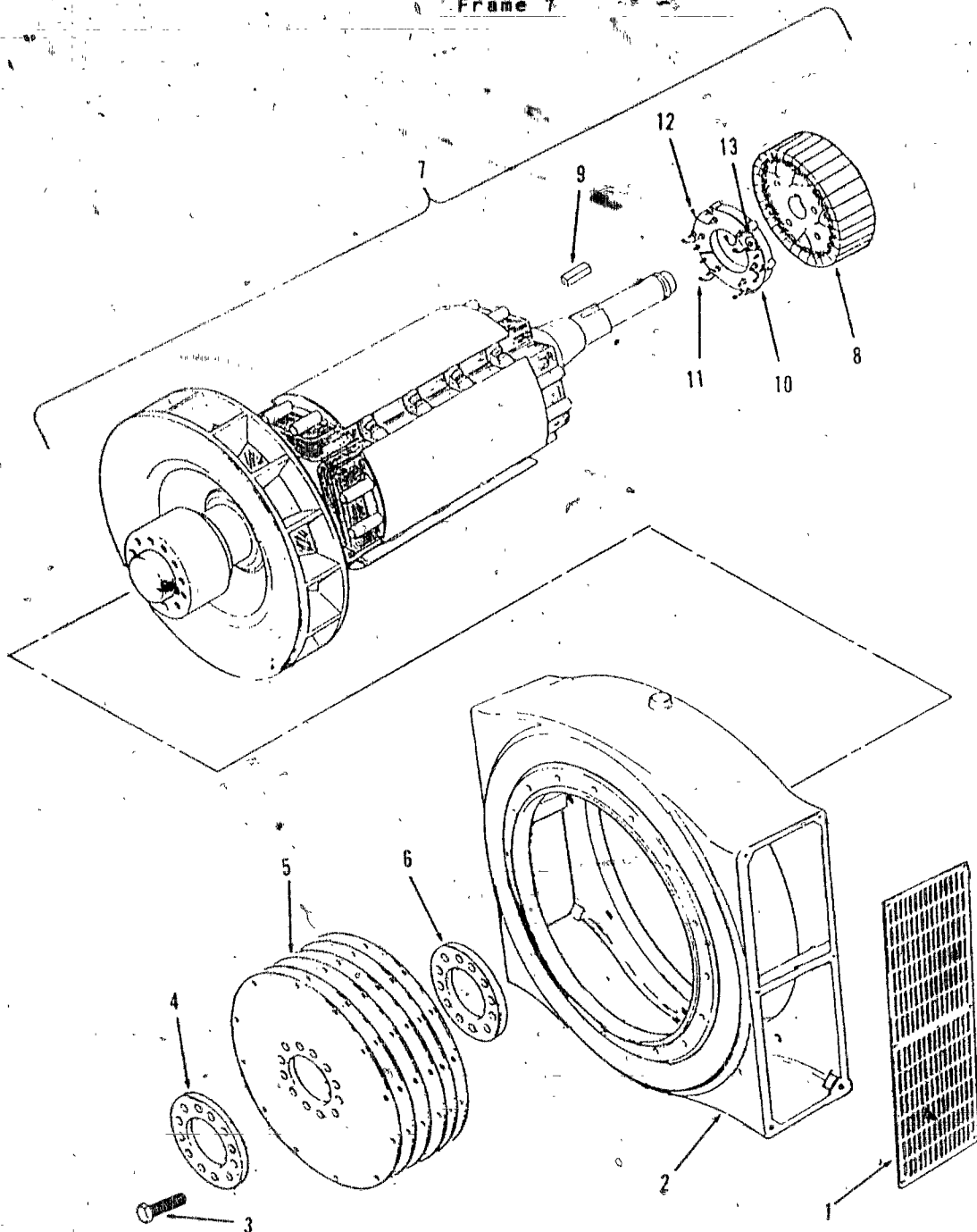


ROTOR SECTION  
SAE 0/SAL 18  
Frame 16

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	249-0534		2	Screen, Air - Adapter
	249-0294		12	Attaching Parts
	249-0307		12	Screw, Cap - Hex Head (M5 x 12mm)
	249-0365		12	Washer, Lock - Spring (M5)
2	249-0533		1	Washer, Flat (M5)
3	249-0437		8	Adapter, Generator SAE 0
4	249-0230		1	Screw, Cap - Hex Head (M20 x 75mm)
5	249-0276		6	Plate, Pressure
6	249-0277		1	Disc, Drive SAE 18
7	Note 1		1	Spacer
8	249-0512		1	Rotor, Generator (Includes Exciter, Key, and Rectifier Assy)
9	249-0620		1	Rotor, Exciter (Does Not Include Rectifier Assy)
10	249-0237		1	Key
11	249-0239		3	Rectifier Assy (Includes Diodes)
12	249-0238		3	Diode, Forward Polarity
13	249-0240		1	Diode, Reverse Polarity
			1	Varistor

Notes 1 Item not stocked, replacement available only on special order with long lead time likely

Generator  
Rotor Section  
SAE 0/ SAE 18  
Frame 7

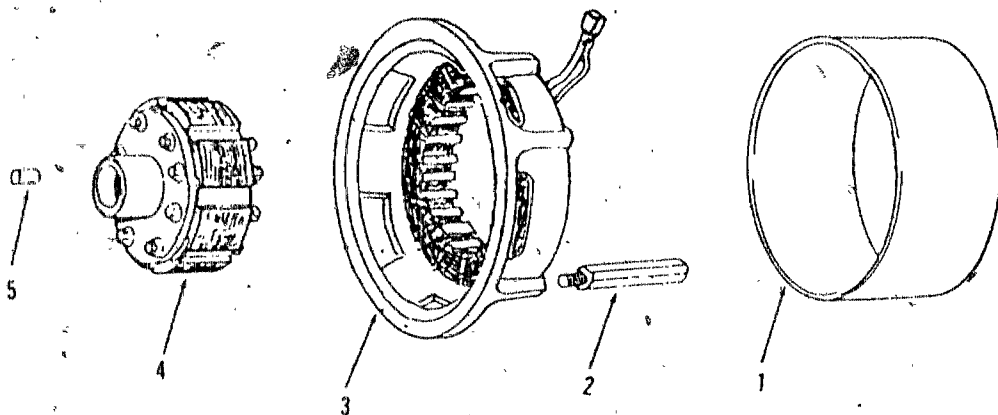


Generator  
Rotor Section  
SAE 0/ SAE 18  
Frame 7

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	249-0482		2	Screen, Air - Adapter
	249-0294		12	Attaching Parts
	249-0307		12	Screw, Cap - Hex Head (M5 x 12mm)
	249-0365		12	Washer, Lock - Spring (M5)
2	249-0481		1	Washer, Flat (M5)
3	249-0444		8	Adapter, Generator SAE 0
4	249-0467		1	Screw, Cap - Hex Head (M24 x 75mm)
5	249-0469		6	Plate, Pressure
6	249-0468		1	Disc, Drive SAE 18
7	Note 1		1	Spacer
8	249-0503		1	Rotor, Generator (Includes Exciter, Key, and Rectifier Assy)
9	249-0620		1	Rotor, Exciter (Does Not Include Rectifier Assy)
10	249-0237		1	Key
11	249-0239		3	Rectifier Assy (Includes Diodes)
12	249-0238		3	Diode, Forward Polarity
13	249-0566		1	Diode, Reverse Polarity
				Varistor

Notes 1 Item not stocked, replacement available only on special order with long lead time likely

# Generator Permanent Magnet Exciter



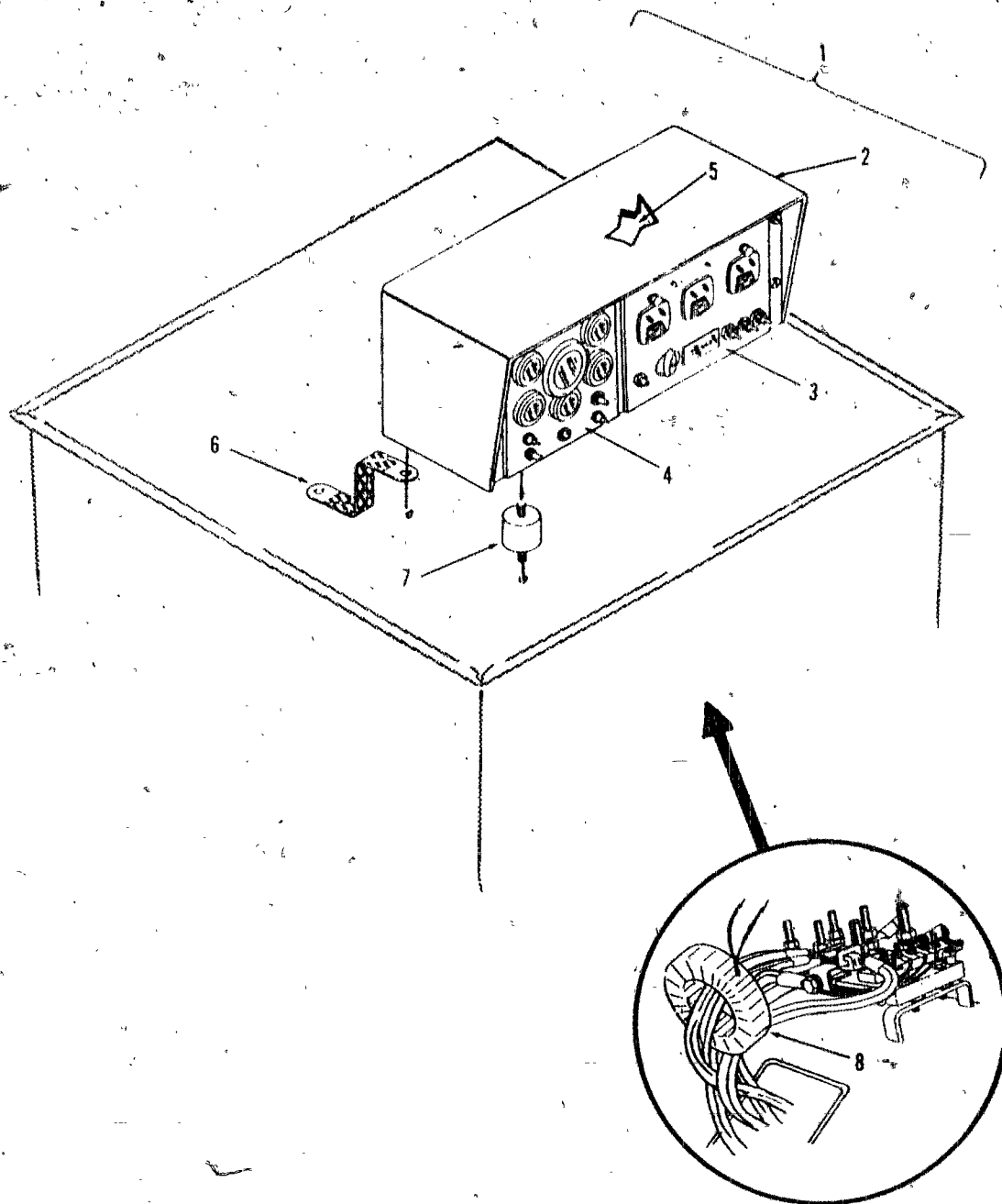
REF NO.	CPP PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	249-0497		1	Cover
	249-0294		3	Attaching Parts For Cover
	249-0307		3	Screw, Cap - Hex Head (M5 x 12mm)
2	249-0423		3	Washer, Lock (M5)
3	249-0426		1	Pillar, Threaded
4			1	Rotor, Exciter with Frame
	249-0427		1	Frame 2, 3, 4 Generators
	249-0644		1	Frame 5, 6, 7 Generators
				Attaching Parts For Rotor (Select Bolt as Required)
	249-0399		1	Bolt - Frame 2, 3, 4 Generators
	249-0495		1	Bolt - Frame 5, 6, 7 Generators
	249-0202		1	Washer, Lock (M10)
5	249-0313		1	Pin, Dowel

## CONTROL SECTION

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# Generator Set Control

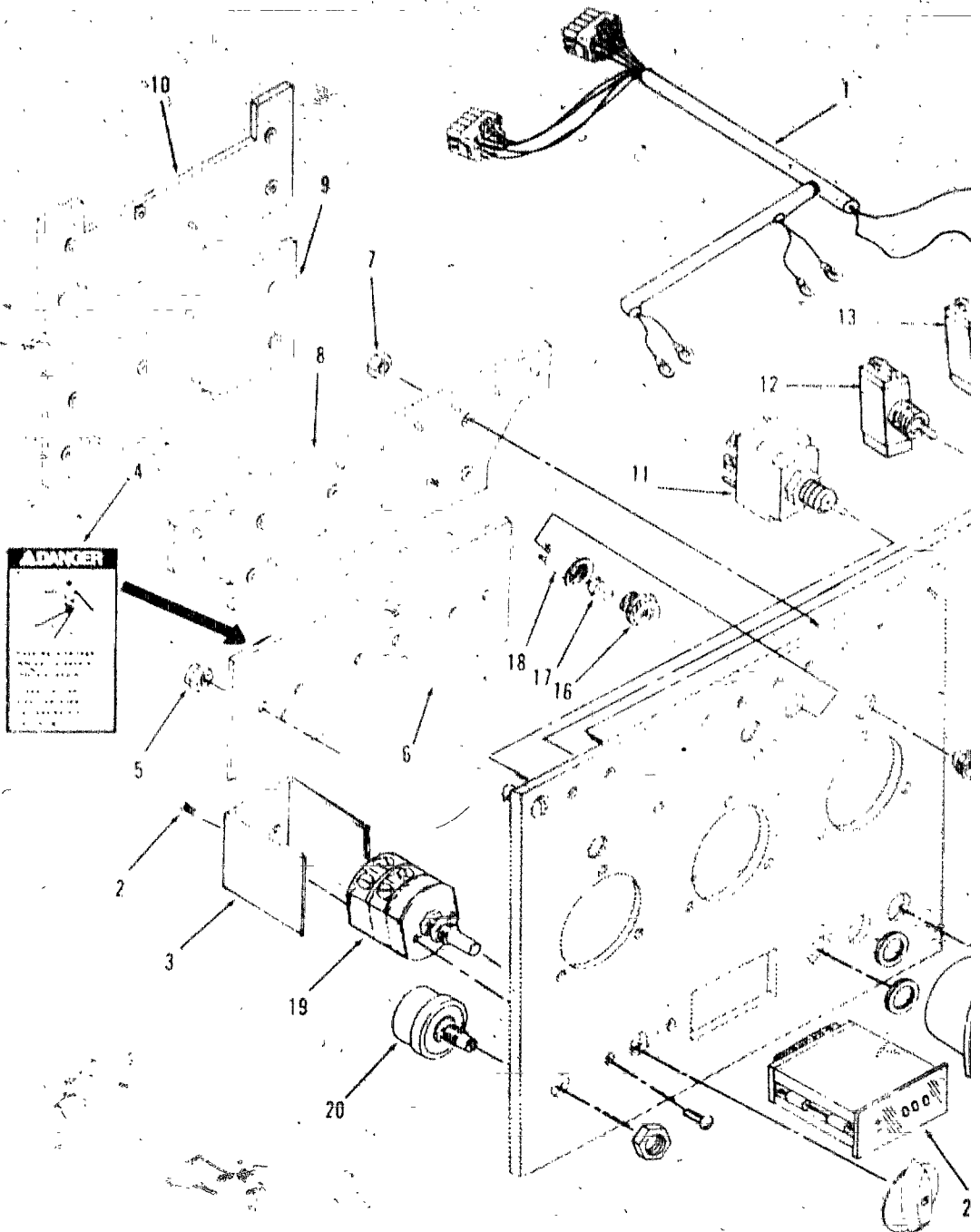


## Generator Set Control

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1			REF	Control, Generator Set (See Items 3 Thru 5 for Components)
	862-1001	70299	8	Attaching Parts for Control
	850-1040	70189	8	Nut, Hex (1/4-20)
2	Note 1		1	Washer, Lock - Spring (1/4")
	815-0701	3016086	6	Cover, Control
				Attaching Part for Cover
3			REF	Screw, Machine - Round Head (1/4 20 x 1/2")
4			REF	Control Panel, Generator (See Separate Pages for Components)
5			REF	Control Panel, Engine (See Separate Pages for Components)
			REF	Internal Components and Wiring Harnesses (See Separate Pages Selection)
6	337-2402	3016849	1	Lead, Electrical Ground
7	402-0610	204493	4	Mount, Vibration
8				Transformer, Current (Select as Required)
	302-1866-05	3011674	3	400 5 Ratio (Used with 200/400 AMP Ammeter)
	302-1866-09	3011678	3	600 5 Ratio (Used with 300/600 AMP Ammeter)
	302-1866-13	3011682	3	800 5 Ratio (Used with 400/800 AMP Ammeter)
	302-1866-15	3011684	3	1000 5 Ratio (Used with 500/1000 AMP Ammeter)
	302-1866-17	3011686	3	1200 5 Ratio (Used with 600/1200 AMP Ammeter and 1200 AMP Single Scale Ammeter)
	302-1866-21	3011690	3	1600 5 Ratio (Used with 800/1600 AMP Ammeter)
	302-1866-24	3014135	3	2000 5 Ratio (Used with 1000/2000 AMP Ammeter)
	302-1866-27	3051479	3	2500 5 Ratio (Used with 2500 AMP Single Scale Ammeter)
	302-1866-28	3051480	3	3000 5 Ratio (Used with 1500/3000 AMP & 3000 AMP Single Scale Ammeters)

Notes 1 Item not stocked, replacement available only on special order with long lead time likely

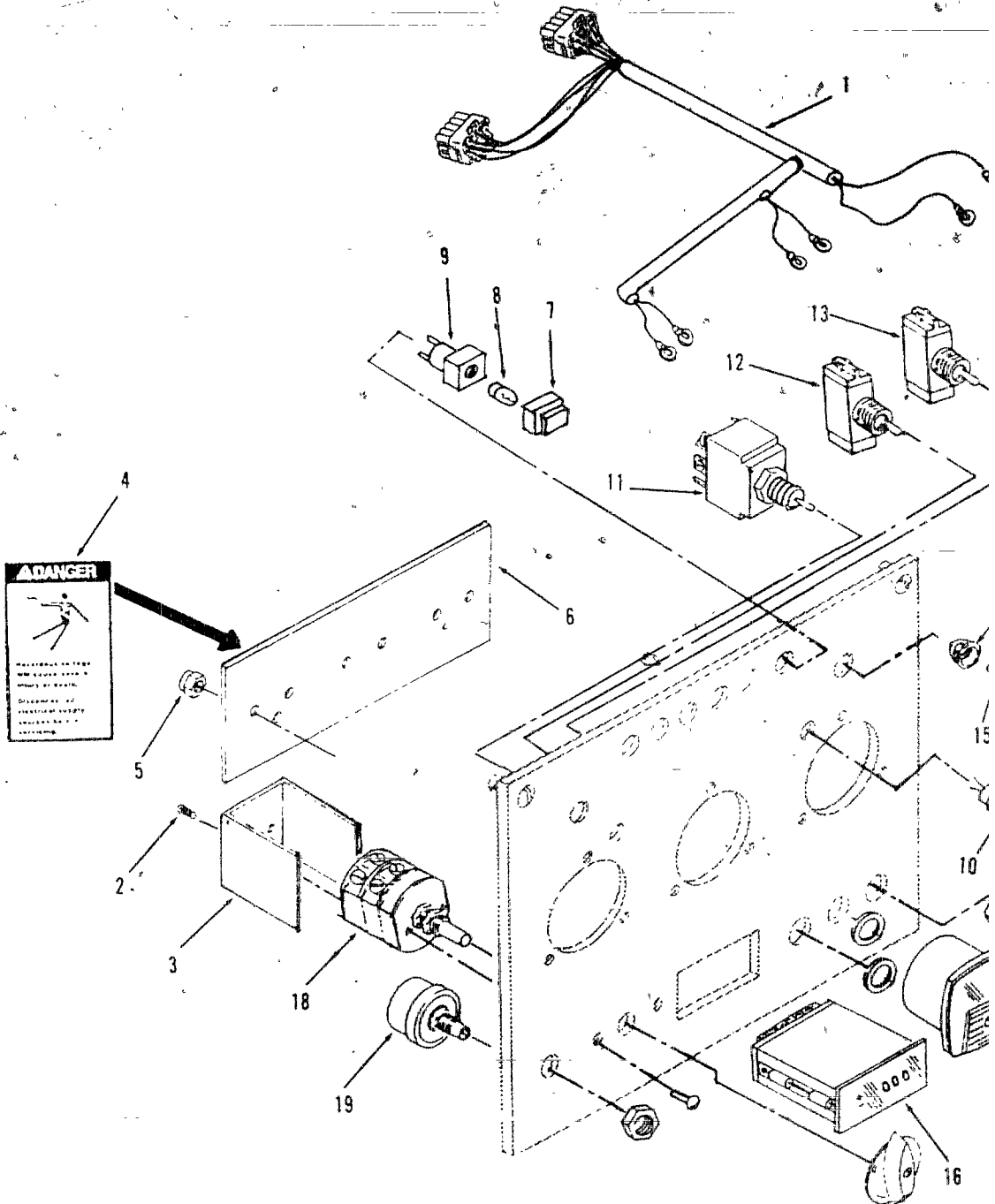
# Generator Control Panel With L E D Indicator Lights



# Generator Control Panel With L E D Indicator Lights

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1				Harness, Wiring (See Separate Pages for Selection and Applications)
2	812-0075		2	Screw, Machine - Round Head (#8-32 x 1/4")
3	306-3523		1	Shield Switch
4	98-5387		1	Decal (Warning)
5	870-0437		7	Nut, Acorn - Plastic
6	306-3522		1	Shield Meters
7	870-0451	20646	4	Nut Self-locking HEX (#8-32)
8	300-3283	3053064	1	Printed Circuit Board 10 LED Lights
9	300-3282	3053063	1	Printed Circuit Board 4 LED Lights
10	300-3281	3053062	1	Printed Circuit Board 2 LED Lights
11				Switch, Toggle
		3015057	1	(AUTOSTART ON/OFF/STANDBY)
		3015058	1	(SYNCHRONIZING)
12		3055738	1	Switch Toggle (ALARM SILENCE)
13		3035149	1	Switch Toggle (PANEL LIGHTS)
14	322-0398	3035016	2	Light Panel (Less Bulb)
15	322-0397-01	3035016	2	Bulb Incandescent
16		3056064	2	Lens Clear (SYNCHRONIZING)
17		3056065	2	Bulb Incandescent
18		3056063	2	Socket Light
19	308-0884	3015860	1	Switch Selector (Includes Knob)
20	303-0288	3058451	1	Rheostat
21	302-1860	3058071	1	Wattmeter
22				Meter (TYPICAL)
	302-1856	3015041	1	Voltmeter
	302-1858	3015044	1	Frequency/RPM
				Ammeter (Select as Required)
				DUAL SCALE
	302-1871-05	3019540	1	200/400 AMP
	302-1862	3015035	1	300/600 AMP
	302-1863	3015036	1	400/800 AMP
	302-1871-06	3051478	1	500/1000 AMP
	302-1864	3015037	1	600/1200 AMP
	302-1865	3015038	1	800/1600 AMP
	302-1871-01	3015039	1	1000/2000 AMP
	302-1871-09	3059965	1	1500/3000 AMP
	302-1871-10	3059966	1	2000/4000 AMP
				SINGLE SCALE
	302-1871-02	3015040	1	1200 AMP
	302-1871-03	3015041	1	1600 AMP
	302-1871-04	3015042	1	2000 AMP
	302-1871-07	3051479	1	2500 AMP
	302-1871-08	3051480	1	3000 AMP

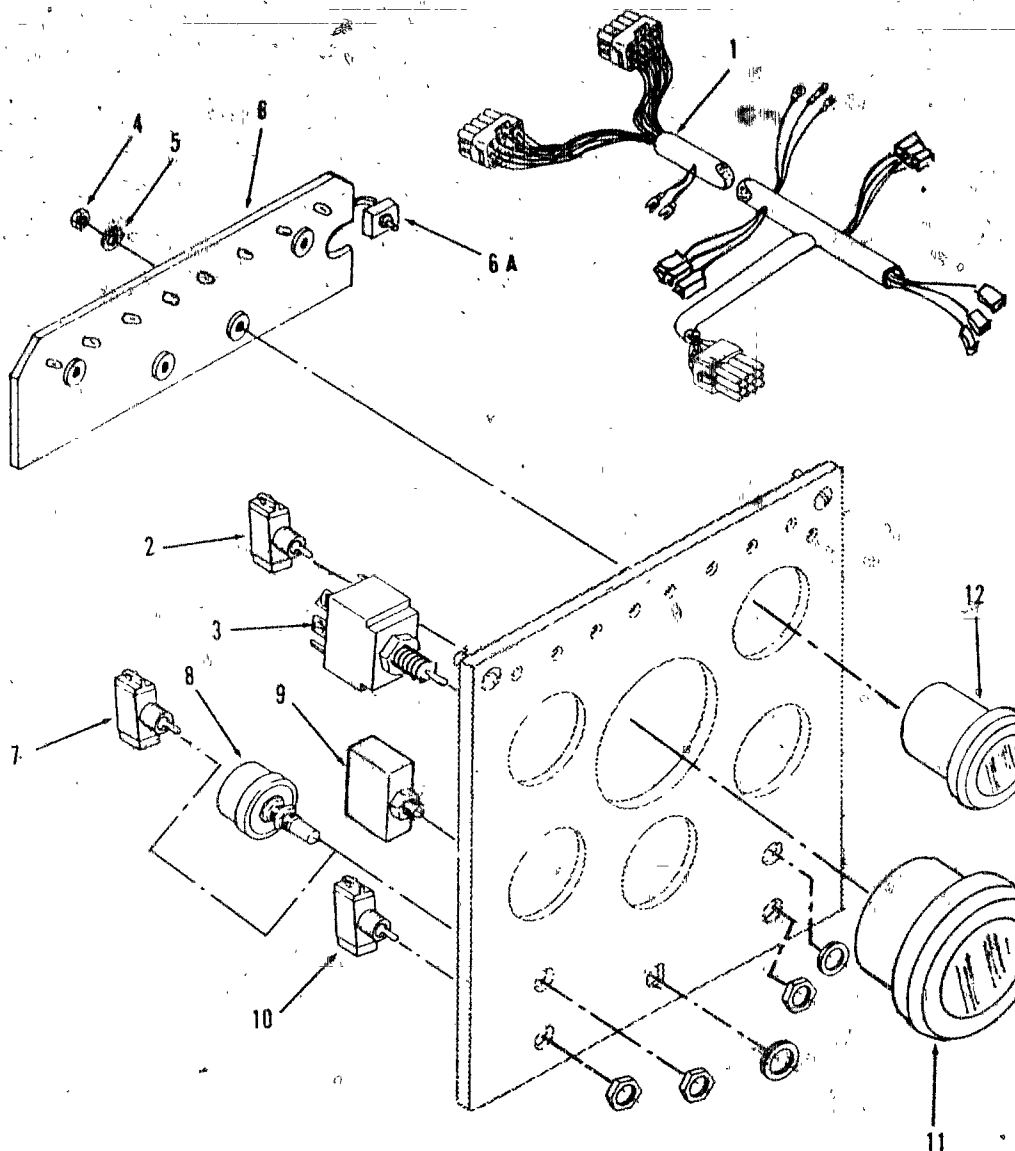
# Generator Control Panel With Bulb Indicator Lights



# Generator Control Panel With Bulb Indicator Lights

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1				Harness, Wiring (See Separate Pages for Selection and Applications)
2	812-0075		2	Screw, Machine - Round Head (#8-32 x 1/4")
3	306-3523		1	Shield, Switch
4	98-5887		1	Decal (Warning)
5	870-0437		7	Nut, Acorn - Plastic
6	306-3522		1	Shield, Meters
7				Lens, Indicator Light
		3018795	4	Orange
		3018796	1	Red
		3018797	1	Green
		3018798	2	White (SYNCHRONIZING)
8		3018799	8	Bulb, Incandescent
9				Socket & Socket with Switch
		3018800	7	Socket, Light
		3014667	1	Socket, Light with Push Switch
10		3015133	2	Light, Indicator - Red Lens (UPPER/LOWER SCALE INDICATING)
11				Switch, Toggle
		3015057	1	(AUTOSTART-ON/OFF/STANDBY)
		3015058	1	(SYNCHRONIZING)
12		3055738	1	Switch, Toggle (ALARM SILENCE)
13		3035149	1	Switch, Toggle (PANEL LIGHTS)
14	322-0398	3035016	2	Light, Panel (Less Bulb)
15	322-0397-01	3035018	2	Bulb, Incandescent
16		3015018	1	Wattmeter
17				Meter
	302-1856	3015043	1	Voltmeter
	302-1858	3015044	1	Frequency/RPM
				Ammeter (Select as Required)
				DUAL SCALE
	302-1871-05	3039530	1	200/400 AMP
	302-1862	3015035	1	300/600 AMP
	302-1863	3015036	1	400/800 AMP
	302-1871-06	3051478	1	500/1000 AMP
	302-1864	3015037	1	600/1200 AMP
	302-1865	3015038	1	800/1600 AMP
	302-1871-01	3015039	1	1000/2000 AMP
	302-1871-09	3059965	1	1500/3000 AMP
	302-1871-10	3059966	1	2000/4000 AMP
				SINGLE SCALE
	302-1871-02	3015040	1	1200 AMP
	302-1871-03	3015041	1	1600 AMP
	302-1871-04	3015042	1	2000 AMP
	302-1871-07	3051479	1	2500 AMP
	302-1871-08	3051480	1	3000 AMP
18	308-0884	3015860	1	Switch, Selector (Includes Knob)
19	303-0288	3058451	1	Rheostat

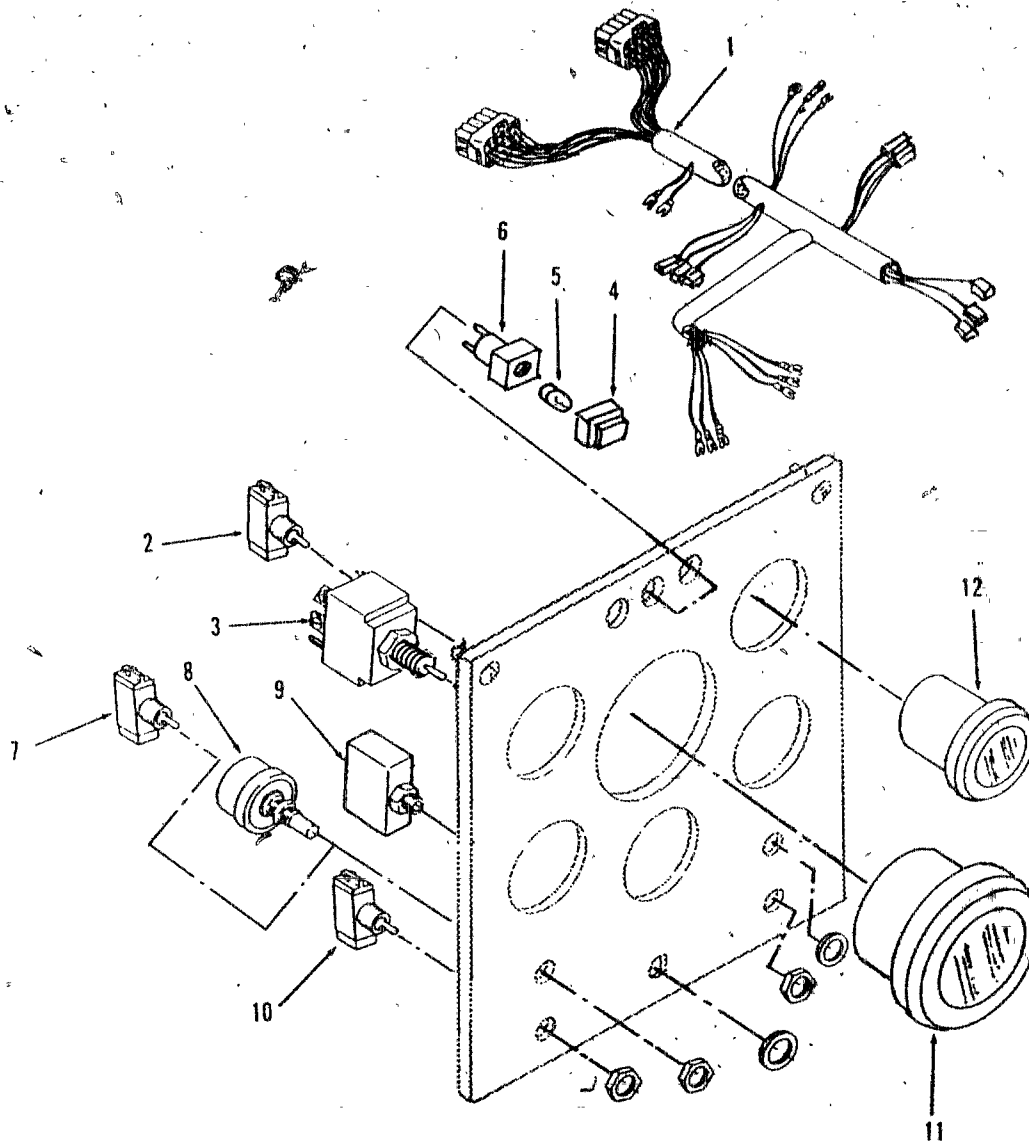
**Engine Control Panel  
With L E D Indicator Lights**



# **Engine Control Panel With L E D Indicator Lights**

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	338-2252	3053044	1	Harness, Wiring (Includes items 2 & 3)
2		3055486	1	Switch, Toggle (CRANK)
3		102057	1	Switch, Toggle (START/RUN/OFF)
4	870-0451	70646	4	Nut, Self-Locking - Hex (#8-32)
5	526-0352	128006	4	Washer, Flat (3/16")
6				Printed Circuit Board (Includes Test Lamp Switch)
	300-3279	3053060	1	5 L E D Indicator Lights
	300-3280	3053061	1	8 L E D Indicator Lights
6A		3055488	1	Switch, Toggle (LAMP TEST)
7		3015055	1	Switch, Toggle (RAISE/LOWER)
8	303-0290	3015105	1	Potentiometer (SPEED ADJUST)
9	320-1616	3034953	1	Circuit Breaker
10	308-0885-02	104215	1	Switch, Toggle (RUN/IDLE)
11	302-1855	3031734	1	Tachometer
12				Gauge/Meter
	193-0400-01	3015232	1	Gauge, Pressure - Oil
	193-0401-01	3015233	1	Gauge, Temperature - Oil
	193-0402-01	3015234	1	Gauge, Temperature - Water
	302-1857-01	3015235	1	Voltmeter
	302-1859-01	3035766	1	Hourmeter

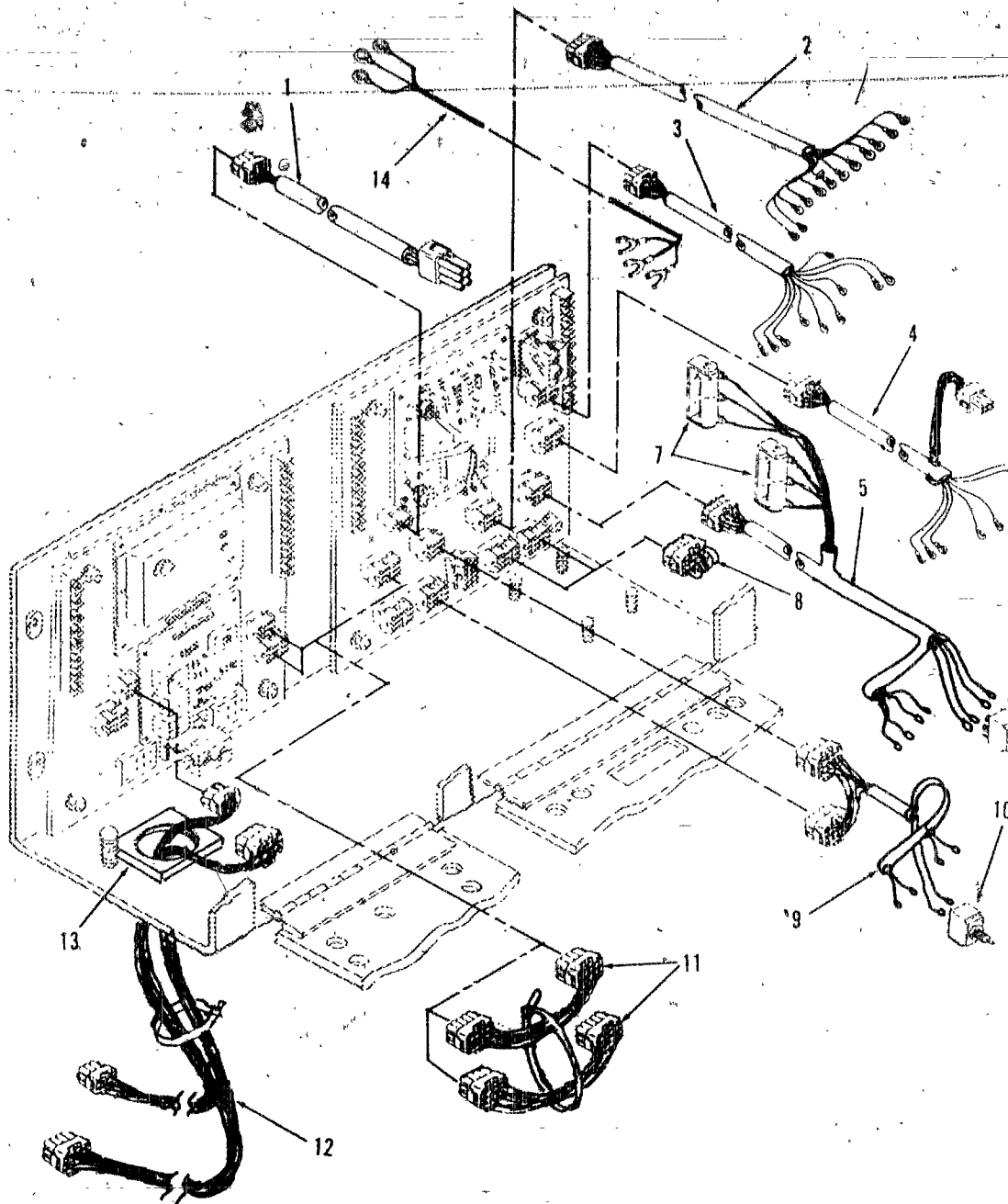
Engine Control Panel  
With Bulb Indicator Lights



# **Engine Control Panel With Bulb Indicator Lights**

REF NO.	CPS PART NO.	CEC PART NO.	QTY. USED	PART DESCRIPTION
1		3035126	1	Harness, Wiring (Includes items 2 & 3)
2		3055486	1	Switch, Toggle (CRANK)
3		102057	1	Switch, Toggle (START/RUN/OFF)
4		3018795	3	Lens, Light (ORANGE)
5		3018799	3	Bulb, Light
6		3018800	3	Socket, Light
7		3015055	1	Switch, Toggle (RAISE/LOWER)
8	303-0290	3015105	1	Potentiometer (SPEED ADJUST)
9	320-1616	3034953	1	Circuit Breaker
10	308-0885-02	104215	1	Switch, Toggle (RUN/IDLE)
11	302-1855	3031734	1	Tachometer
12				Gauge or Meter
	193-0400-01	3015232	1	Gauge, Pressure - Oil
	193-0401-01	3015233	1	Gauge, Temperature - Oil
	193-0402-01	3015234	1	Gauge, Temperature - Water
	302-1857-01	3015235	1	Voltmeter
	302-1859-01	3035766	1	Hourmeter

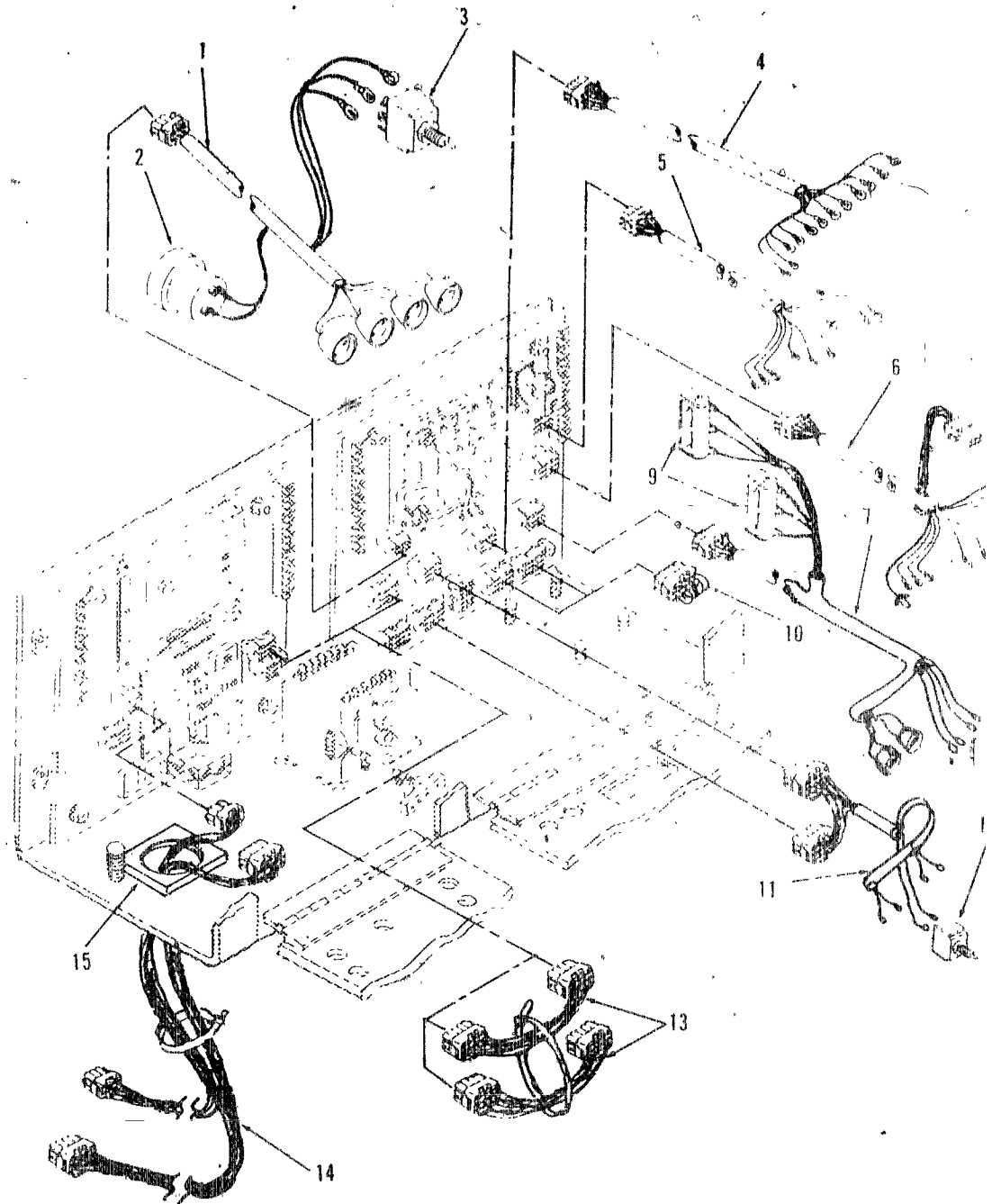
Set Control - Wiring Harnesses  
(Sets With LED Indicator Lights)



# Set Control - Wiring Harnesses (Sets With LED Indicator Lights)

REF NO.	CPP PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	338-2255	3053048	1	Harness, Wiring (PCB TO LED PCB)
2	338-2258	3056066	1	Harness, Wiring (PCB TO WATTMETER)
3	338-2250	3035147	1	Harness, Wiring (PCB TO VOLT/AMP SELECTOR SWITCH)
4	338-2253	3053046	1	Harness, Wiring (PCB TO AC METER)
5	338-2383	3053033	1	Harness, Wiring (PCB TO RESISTORS AND SYNCHRONIZING SWITCH; Includes The Resistors and Switch)
6		3015058	1	Switch, Toggle (SYNCHRONIZING)
7		3055739	2	Resistor, Wirewound with Mounting Bracket Attaching Parts for Resistor
	860-0003	3043636	4	Nut, Hex
	850-0010	3043637	4	Washer, Lock - Spring
8	338-2312	3056089	2	Harness, Wiring (HIGH/LOW WYE ADAPTER)
9	338-2256	3056061	1	Harness, Wiring (PCB TO PANEL LIGHTS AND SWITCH, Includes The Switch)
10		3035149	1	Switch, Toggle (PANEL LIGHTS)
11	338-2248	3035132	1	Harness Assembly, Wiring (ENGINE CONTROL PCB TO GENERATOR CONTROL PCB)
12				Harness Assembly, Wiring - With Shielded Leads (ENGINE WIRING HARNESS TO ENGINE CONTROL PCB, Select Length as Applicable)
	338-2301-01	3053037	1	5 3 Feet
	338-2301-02	3053038	1	7.3 Feet
	338-2301-03	3053039	1	9.3 Feet
	338-2301-04	3053040	1	11 3 Feet
	338-2301-05	3053041	1	15 3 Feet
	338-2301-06	3053042	1	25 3 Feet
	338-2301-07	3053043	1	50 0 Feet
	338-2301-08	3057046	1	1 3 Feet
13	331-0525	204494	1	Gasket, Conduit
14	338-2251	3044442	1	Harness, Wiring (PCB TO GEN TERMINAL BLOCK)

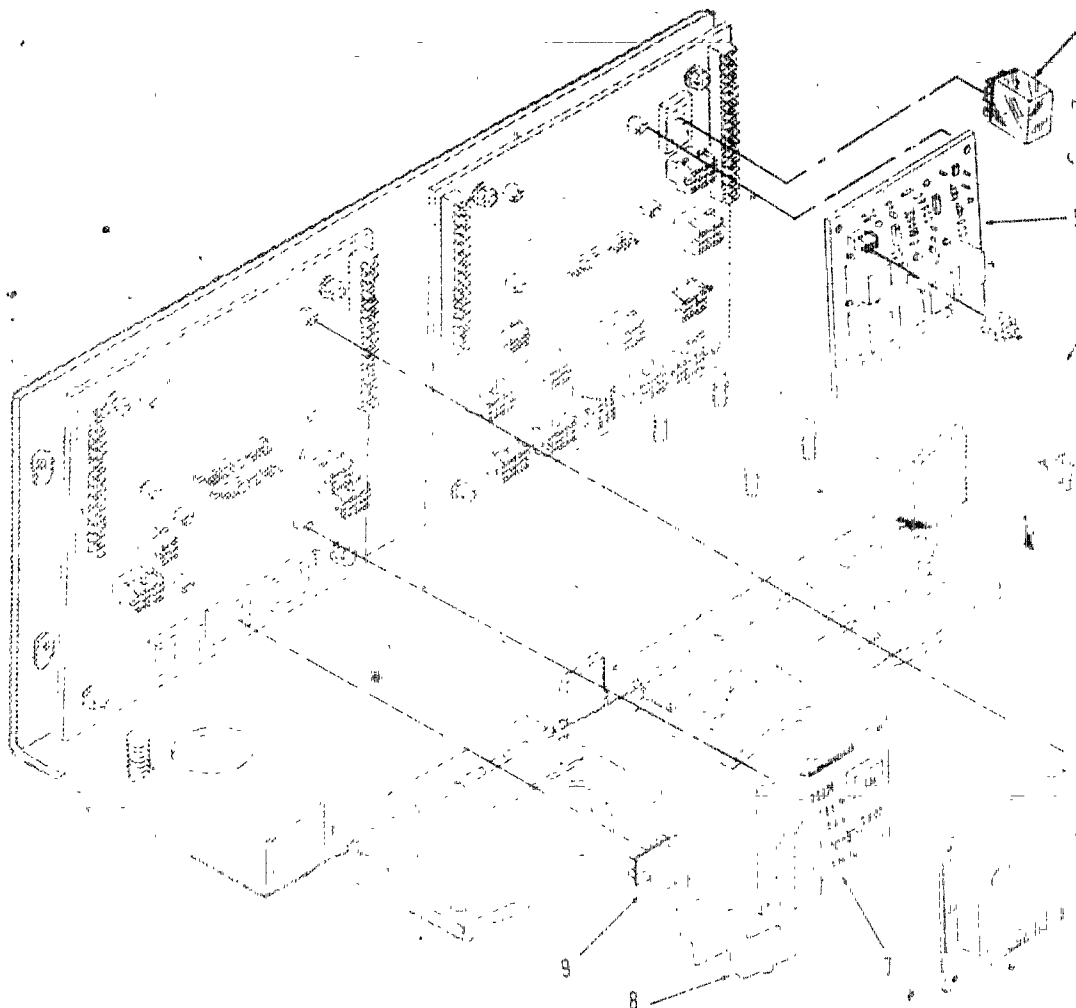
**Set Control - Wiring Harnesses  
(Sets With Bulb Indicator Lights)**



# **Set Control - Wiring Harnesses** **(Sets With Bulb Indicator Lights)**

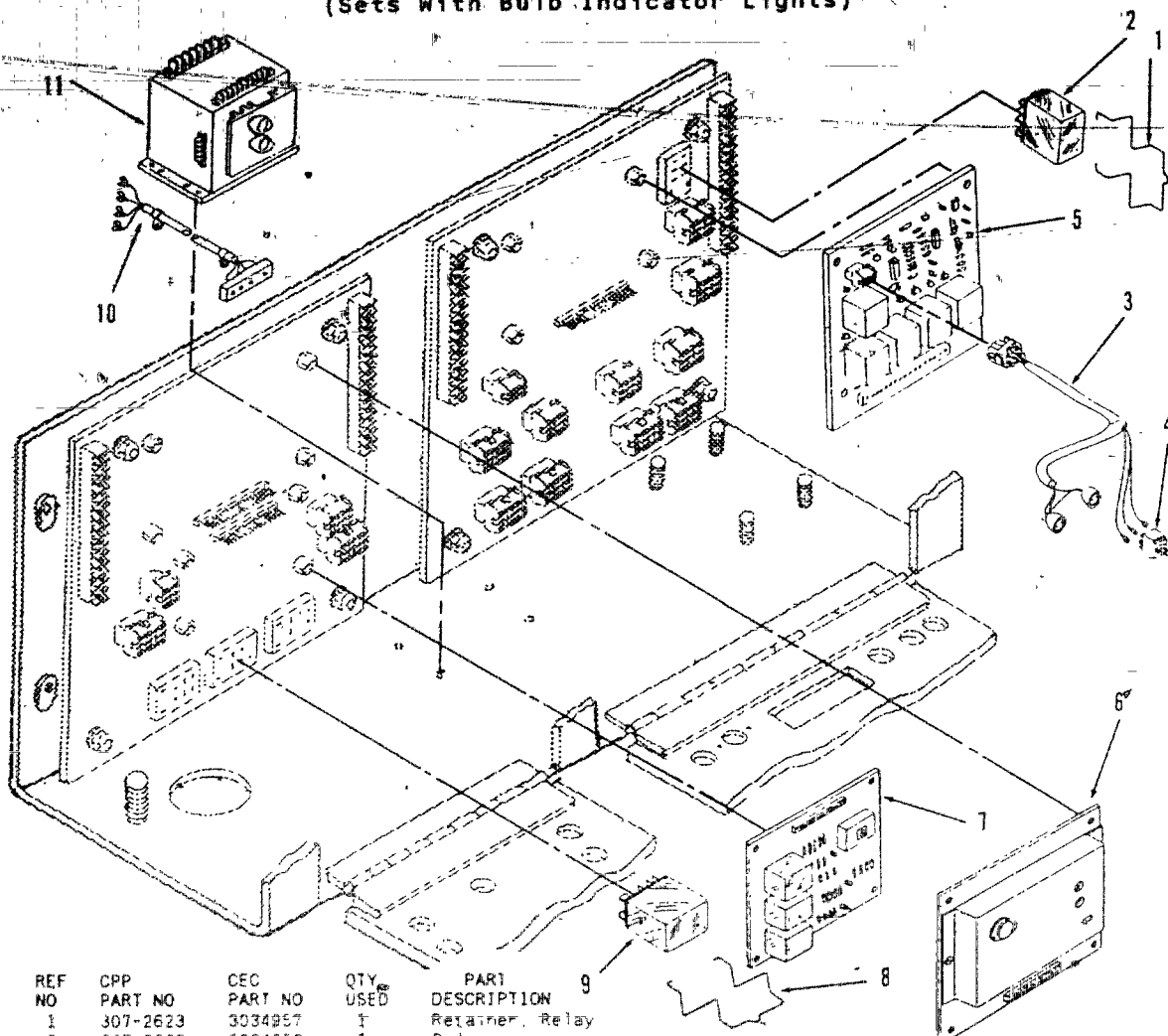
REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1		3035145	1	Harness, Wiring (PCB TO HORN, SWITCH AND INDICATOR LIGHTS; Includes The Horn and Switch)
2		3015118	1	Horn, Electrical - 24 VDC
3		3015058	1	Switch, Toggle (ALARM SILENCE)
4		3035142	1	Harness, Wiring (PCB TO WATT TRANSDUCER)
5	338-2250	3035147	1	Harness, Wiring (PCB TO VOLT/AMP SELECTOR SWITCH)
6		3035144	1	Harness, Wiring (PCB TO AC METER AND RED INDICATOR LIGHTS; Includes Red Indicator Lights)
7		3035146	1	Harness, Wiring (PCB TO RESISTORS, SYNCHRONIZING LIGHTS AND SWITCH; Includes The Resistors and Switch)
8		3015058	1	Switch, Toggle (SYNCHRONIZING)
9		3015109	2	Resistor, Wirewound with Mounting Bracket
				Attaching Parts for Resistor
	860-0003	3043636	4	Nut, Hex (#8-40)
	850-0010	3043637	4	Washer, Lock - Spring (#4)
10	338-2249	3035140	2	Harness, Wiring (HIGH/LOW WYE ADAPTER)
11	338-2256	3056061	1	Harness, Wiring (PCB TO PANEL LIGHTS AND SWITCH, Includes The Switch)
12		3035149	1	Switch, Toggle (PANEL LIGHTS)
13	338-2248	3035132	1	Harness Assembly, Wiring (ENGINE CONTROL PCB TO GENERATOR CONTROL PCB)
14				Harness Assembly, Wiring (ENGINE WIRING HARNESS TO ENGINE CONTROL PCB, Select Length as Applicable)
	338-2276-01	3035127	1	5.3 Feet
	338-2276-02	3035128	1	7.3 Feet
	338-2276-03	3035129	1	9.3 Feet
	338-2276-04	3035130	1	11.3 Feet
	338-2276-05	3035131	1	15.3 Feet
13	331-0525	204494	1	Gasket, Conduit

# Set Control - Internal Components (Sets With LED Indicator Lights)



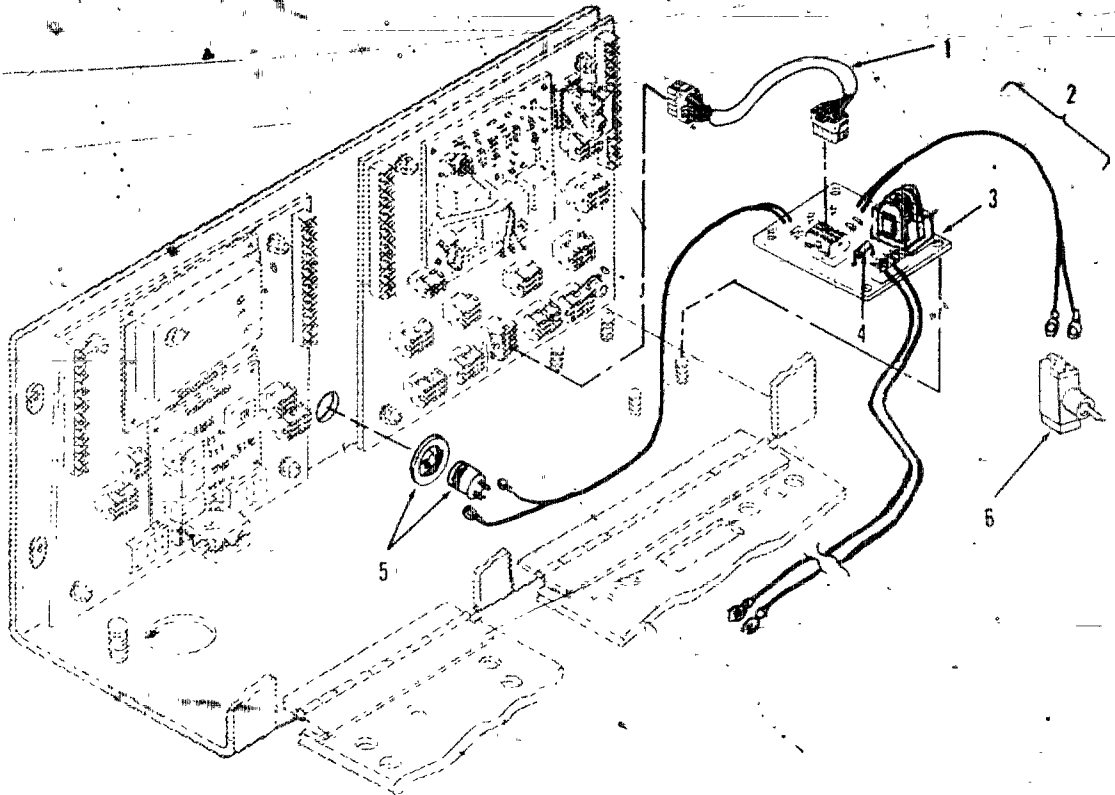
REF NO	QTY USED	CPP PART NO	CLC PART NO	PART DESCRIPTION
1	1	307-2623	3034957	Retainer, Relay
2	1	307-2622	3034956	Relay
3	1	338-2254	3053047	Harness, Wiring - AutoStart to 100% Throttle Switch
4	1	300-3077	3015057	Switch, Toggle (Autostart)
5	1	300-3077	3014341	Board, Printed Circuit - Autostart
				Attaching Parts for Board
	4	815-0802	70310	Screw, Machine - Pan Head #8-32 x 3/8"
	4	850-1020	70262	Washer, Lock - Spring (#8)
6	1	151-0683	03 3062303	Control Governor
				Attaching Parts for Board
	4	815-0802	70310	Screw, Machine - Pan Head #8-32 x 3/8"
	4	850-1020	70262	Washer, Lock - Spring (#8)
7	1	300-0574	3036453	Control Governor
				Attaching Parts for Board
	4	815-0802	70310	Screw, Machine - Pan Head #8-32 x 3/8"
	4	850-1020	70262	Washer, Lock - Spring (#8)
8	1	307-2623	3034957	Retainer, Relay
9	1	307-2684	3034962	Relay

# Set Control - Internal Components (Sets With Bulb Indicator Lights)



REF NO	CPP PART NO	CEC PART NO	QTY <sub>us</sub> USED	PART DESCRIPTION
1	307-2623	3034957	1	Retainer, Relay
2	307-2622	3034958	1	Relay
3		3035143	1	Harness, Wiring - AutoStart to Bulbs (Includes Switch)
4		3015057	1	Switch, Toggle (AutoStart)
5	300-3277	3054341	1	Board, Printed Circuit - AutoStart
				Attaching Parts for Board
	815-0802	70310	4	Screw, Machine - Pan Head (#6-32 x 3/8")
	850-1020	70262	4	Washer, Lock - Spring (#6)
6	151-0682-03	3062323	1	Control, Governor
				Attaching Parts for Board
	815-0802	70310	4	Screw, Machine - Pan Head (#6-32 x 3/8")
	850-1020	70262	4	Washer, Lock - Spring (#6)
7	309-0574	3036453	1	Control, Overspeed
				Attaching Parts for Board
	815-0802	70310	4	Screw, Machine - Pan head (#6-32 x 3/8")
	850-1020	70262	4	Washer, Lock - Spring (#6)
8	307-2623	3034957	1	Retainer, Relay
9	307-2684	3034962	1	Relay
10		3015019	1	Harness, Wiring - Transducer to Wattmeter
				Attaching Parts
		3018792	2	Screw, Self-Tapping - Round Head
11		3015017	1	Transducer, Watt
				Attaching Parts

# Set Control - Alarm Module



REF NO.	CPS PART NO	CEC PART NO	QTY USED	PART DESCRIPTION
1	33B-2257	3056062	1	Harness, Wiring - Alarm Board to Gen Control Board
2				Module, Alarm (Includes PC Board, Horn, Switch and Electrical Leads to Horn, Switch and Generator Terminal Board)
	300-3286	3054296	1	Sets with Four Fault Indicators
	300-3287	3054297	1	Sets with Six Fault Indicators
3	Note 1	Note 2	1	Board, Printed Circuit - Alarm Module (Includes Fuse)
	Note 1	Note 2	1	Sets with Four Fault Indicators
			1	Sets with Six Fault Indicators
				Attaching Parts for Board
	870-0451	70646	4	Nut, Self-locking - Hex. (#8-32)
	526-0352	128096	4	Washer, Flat (#16")
4	Note 3	3062691	1	Fuse
5	333-0405-02	149806	1	Horn, Electrical - 24VDC
6	Note 3	3055738	1	Switch, Toggle

NOTES: 1. Not stocked as replacement item. order applicable Item 2 for replacement  
2. Not Stocked as replacement item. order applicable Item 2 for replacement  
3. Not stocked as replacement item.