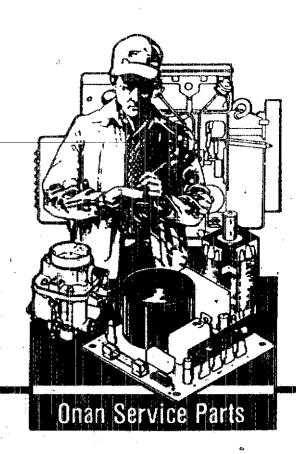
Onan

Parts Manual

DGEA

DGFA

GenSet





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lsi.		TI (1941) (1	Light Aptition B13
!**	Bell End - Generator	83	A10
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1	Breaker Circuit	813	Merer Ampere B13
	- April manuscroper to the fit where I d		and the second of the second o
	Maria Anna Anna Anna		B13
	.Cable, Jumper	A8	Marter Tech Bit
	Cap, Radiator	A11	Martiner Thinner - Asserts in Bita
	Cap. Rain - Emmause	ΑŽ	in Merteen Volta : Battable
	Chaseis	A14	Marter water 813
	Cleaner Air	AT3 "	Mark Committee C
	್ರಾಗ್ಯಗಳಿಗೆ ಕ್ರಿಗ್ರಾಮಿಕ	·H**	
	Consto Generator	813	* (まれup - Machine) (c 日本
j.	System System	Att	The state of the s
	AMERICA SERVICES	, m. (-	- Radhator Att
			the state of the s
1	Ornin: Orl	A6	Rotor: Experer
	* <u></u>	ų.	Roton Experient - Chimponents B5
	Exhaust System	A.T	Rator Comerator B3
	Fami Cooling	A11 83	Sender Presuure - Q: 1
	Filter: Air	A13	*Sender Femoerature - Oil AS
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	Gasket Drain - Oil	A6	Silencer 47
	Gauge: Pressure - 0:1	. B*1	Stator, Excepter 83
	Gauge, Temperature " OTT	B11	
	Gaugh, Temperature - Water	B11	Suppressar Voltage 1
	Generator	63	Switch Level File Coplant All
	Governor, Electronic	4.6	Switch (Soversheed BS BS B10)
	Guand, Bert	选:1	Switch Gresswitz - LI ST
	Guard, Far	A. 1 1	\$66大型的有点。 美国城市 (F) 网络水源类学学园内农学 (F)
	• .		Switzer, Rush - Murisenskiemensee . 1875
	Harness, Wiring + Control (AC)	B · 3	- Switch, Ratury - Cenerator Control 813
	Harness Wiring - Control (DC)	ë i	Switch, Temperature - H. Sod ant 76
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	Harness: Wiring - Lo Coplark Level	A11	y D. Ch.
	Heater, Control	§ C5, C6	Thermostat heater - Water A9
	Heater, Coolant - Englise 🚶	w, * ¥8	Transformer Current C1.02
	Heater, Generator	B7. B8	
	Heater, Water	A.9	yalve Drainth.Ci' A6
	Höse, Drain - Oi	* A6	
,	Hose, Radiator	A11, A13	V i
	Housing, Control	_ C3	4* . • • • • • • • • • • • • • • • • • • •
	Housing, Set	B1	
•	The first or the fig. 1. Whe file	Bank P	





Introduction

the description column the parts are interchangeable between models

These typical illustrations are subject to change send reflect only the latest

Set Data Table

j.				
·	MODEL IDENTIFICATION	RATING	RPM RATING	BATTERY VOLTAGE
	foo o ogea + */ * * 125 0 DGEA + */ * * 125 0 DGFA + */ * * 150 0 DGFA - */ * *	100.000 WATTS 125.000 WATTS 125.000 WATTS 150.000 WATTS	1500 RPM 1800 RPM 1500 RPM 1800 RPM	24 VDC 24 VDC 24 VDC 24 VDC

*VOLTAGE CODE	VOLTAGE	неята	WIRE	PHASE	NOTES
E (6D) H (9X) L (15R)	240/480 347/600 208/240/480	60 60 60	4 4 12	3 3 3	
Z (515R)	208/240/480	50	1.2	3	•

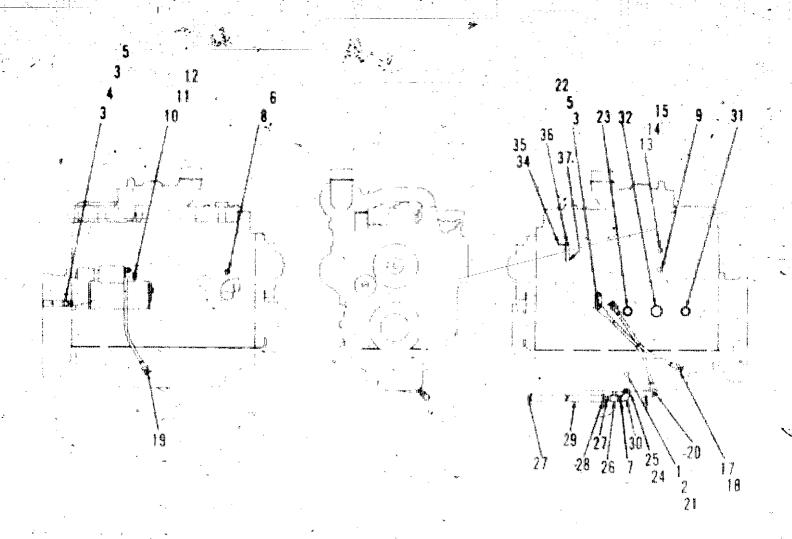
- Voltage Codes follow Model Letter designations Specification Number: Number 1 is Standard, all others indicate varations:
- Specification Letter: Letter advances (A. to B. B to C. etc) with
 - major manufacturing changes.
- These Generators are Reconnectable. Refer to Installation Manual for wiring data

- Maintenance Engine Parts

	MEF MC)	PART	QTY USED	PART		NO.	PART	QTY USED:	PART DESCRIPTION
+ -		-18T-0022		Friture Osh		45	107~0020		Telegrations surplied
<u>.</u>	7	107:0011	٦٥	As Ither France		7	187-0029	4 8	Gaskines Thermossins ,
:	3	187-0012	- <u>-</u> -	≨niltanr ∦aanani.	y- 4	ri Hi	181-40034	45	Ingector
	#	187-0025	6	Chaket Cover	- चिक्रकेशक	9	167-0023	* *.	Gasket Mit fed - You
•	¥5.	187-0026	1 `	Selt Or the	·	D	181-0027	4	சிவாை Transfer - Fuelt

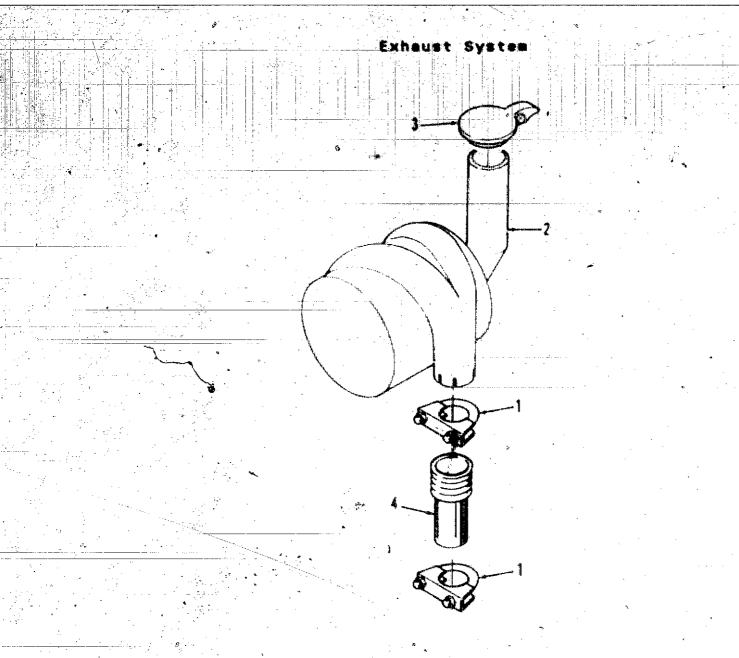


Engine Accessories

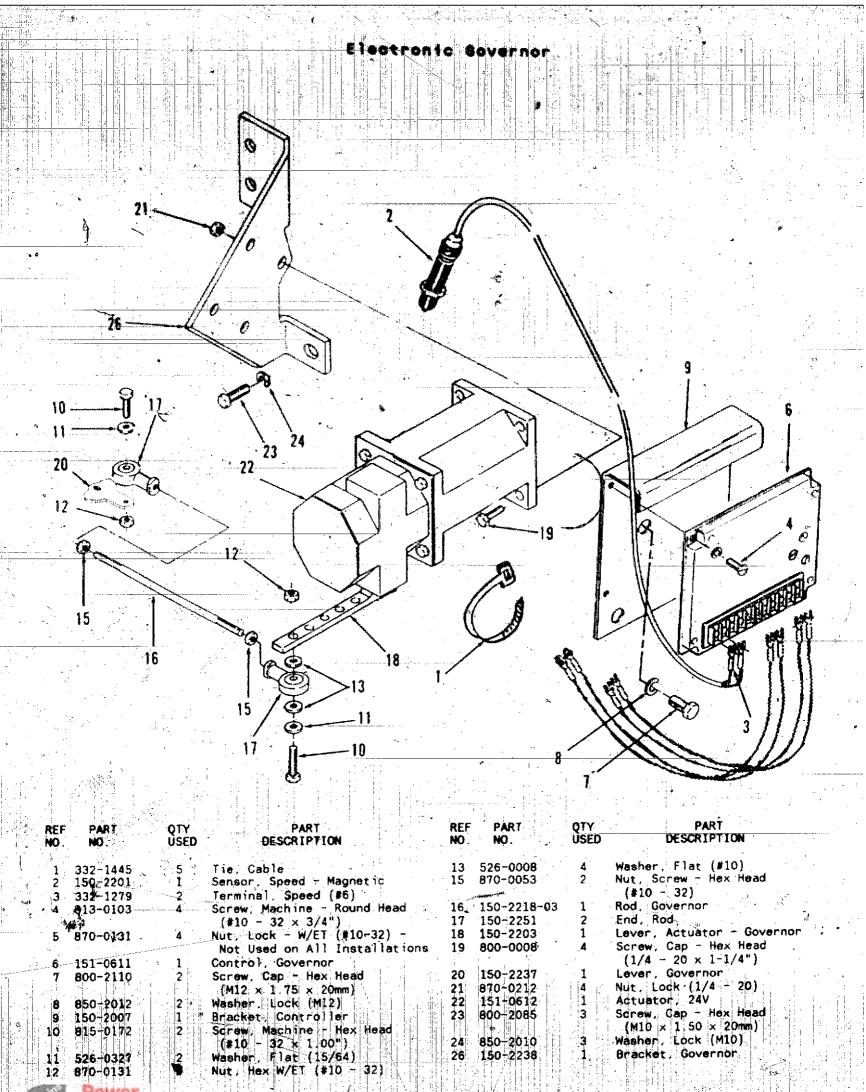


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF ₩0+	PART NO.	QTY USED	PART DESCRIPTION
†	193-0353	¢ -	Sender, Temperature - Oil	20	416-0619	ī	Cable, Negarive
2	187-0146		Washer, Sealing .	21	505-1373	1	Bushing Reducer
3	856-0013	3	Washer, Lock - EIT (1/2*)				(M22 元 1 5")
. 4	332-2739	1	Bracket, Terminal	22	8 50~2012	-1	Washer tock (M12).
5	800-2110		Screw, Cap - Hex Head	2.3	3 09- 0 272	1	Switch, Pressure - (Pre Low
	<i>₩</i>		$\{M12 \times 1.75 \times 20mm\}$				Oil Pressure)
6	309~0554	1	Switch, Temperature - High	24	102-1147	i i	Gasket Drain - Oil Pan
			Coolant	25	102-1237	1	Adapter, Drajn - Oil
7	505-0100	* 1	Nipple, Close $(1/2 \times 1 \cdot 1/8^{\circ})$				$(M18 \times 1.5")$
8	505-0021	1 -	Bushing; Reducer $(3/4 \times 1/2^6)$	26	504-0011	1,	Valve, Shutoff" (1/2")
. 9	309-0553	1	Switch, Temperature	27	505-0185	2.	Nipple, Half (1/2 x 1.50")
			Pra-Coolant	28	503-0197	2	Chip, Hose - Corbin
10	800-2058	. 1	Screw, Cap - Hex Head	29	503-0098	1	Hose, Drain (20.0")
			(M8 x 1.25 x 25mm)	30 -	505-0040 📣	1 .	Elban, 90' {1/2"}
11	850~2008	1	Washer, Lock (M8)	31	309-0169	14	Switch, Pressure (Low Oil
12	309-0269		Switch: Temperature ~ Low	10	,-	o. "	Pressure)
			Eng ine	32	193-0244	ĻΙ	Sender, Pressure - Oil
13	193-0375	1	Sender, Temperature - Coolant	34	718-1027	1	Screw, Cap - Hex Head (M6 x
14	526-0008		Washer, Flat (#10)				1 × 50mm)
15	850-0030		Washer, Lock (#10)	35	860-2007	1	Nut, Hex (M6 x 1)
16	871-0010		Nut; Cap - Hex Head (#10-32")		150-2252	1	Bracket, Governor
17	416-0923		Cable Jumper		718-1021	2	Screw, Cap - Hex Head (M6 x 3
19	416-0915		Cable, Positive				1 × 20mm)
		-	The second care to make a comment of the comment of				



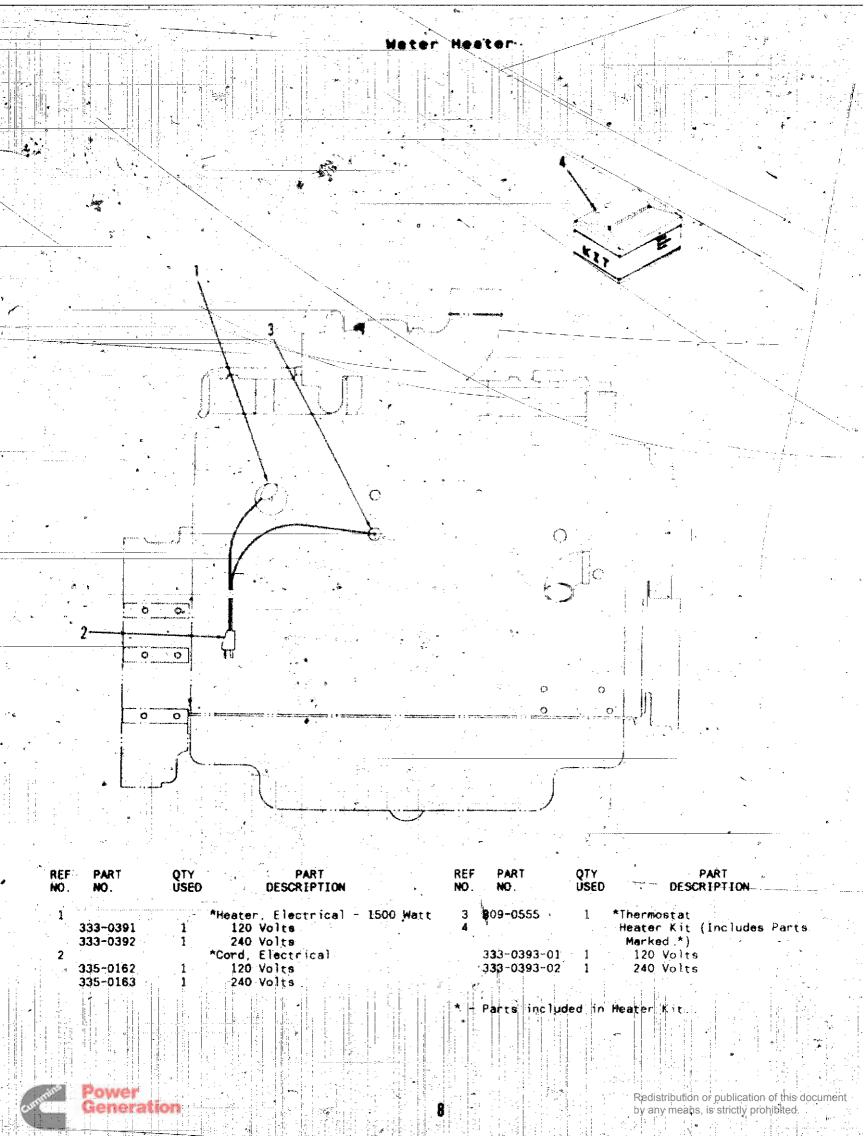


REF PART	QTY USED	PART DESCRIPTION	· ·	REF NO:	PART	QTY USED	PART DESCRIPTION
1 155-2305	1	Clamp, Muffler Silencer		3	155-2062-07 155-2304	i	Cap Rain Adapter Exhaust
155-2306 155-2307	1 1	DGEA DGFA					

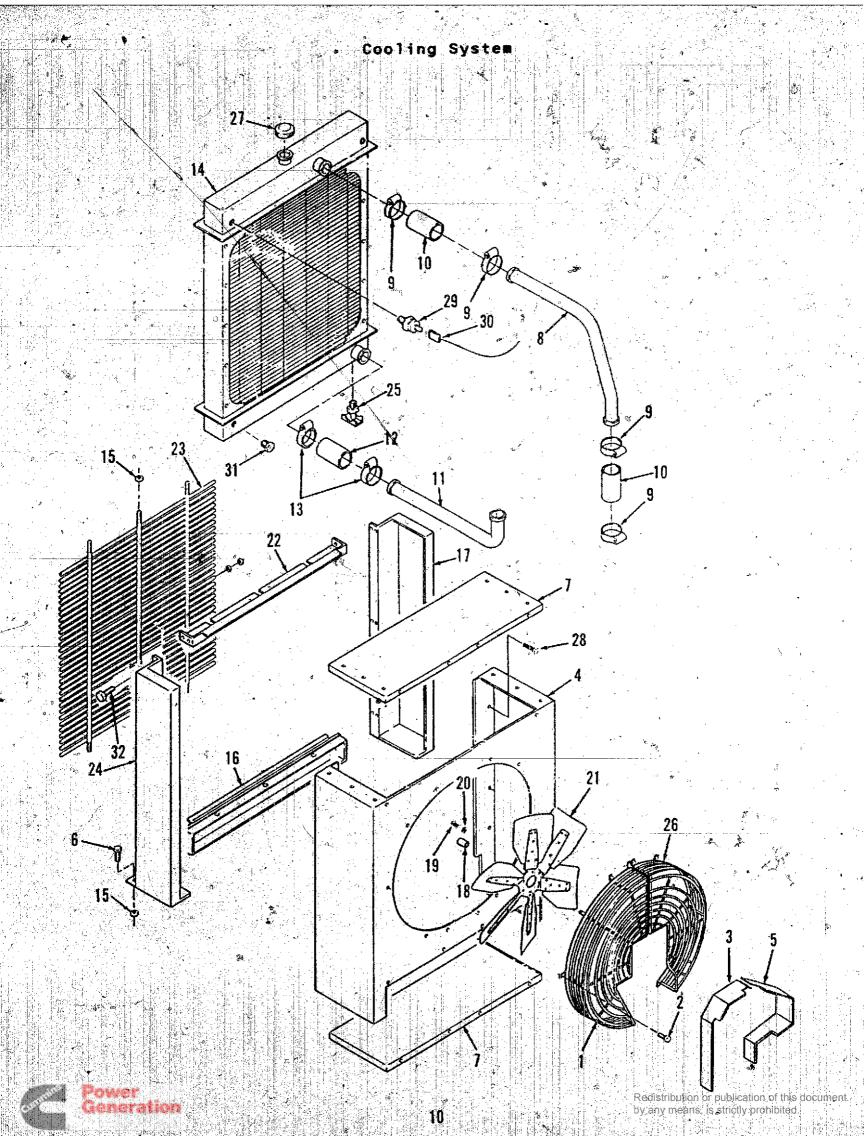


Generation

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51		1000						19.3	era: Visi							Hoth	11.00 PM		황기		. 4 43	1 1	ه ای ا	á		15
1. 1.0							军事机.	19.5. 4							ن الله	194 H.	1.4					LED Y	K delic		9611	12
31.		REF	₽,	ART		OTY			P,	ART	(JN),			REF	P	ART	a	QTY				PART		13,		, 1
	ii)	NO:	, M	3 4 1.		ÜSEC	X		DESCR	IPTION			17.41	NO.	n Ni			Ů9E) ·		DESC	RIPT	ION		144.5	4-1
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		1	No ext. and .	-0961	1 255 475		"好"在我摆出了"好		-1977	- Coo	P. C. W. T.	. 1000 - 15		D	OOT	-044	L _ ·	1.		ine.	ruei		ex (CLZ#	rue	تحرق ا
		2 *	98	<u>† 1003</u>		2	Dec	cal 📜	Drain	_ Coc	lant	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		7	201			-		In)					X	
	\$ L.	3	98	-5393		ୁ 2 🗇	' Lat	oel.	Warnii	ng				. 8	332	-094	1	2	5 C	able	Tie			-11		
		4	98	-2235		1	Dec	aľ.	Grodn	d 🗀 🔧		10.4	1	9	503	-017	O.	10	ે ૮	lamo	Hose					:
		- C		-0480	1.0	1				flex	15/1	s.		10		450		3		- ,*	, Test		Pre	atoti	/ne	
		٠, ٠		V-4-Q/U	4.7	A	1. 11	Ψ .	ue .		12/2	¥		. 10	,30		Y (7.	-	ave i	, , 601	- H		,,,,,	, ww	

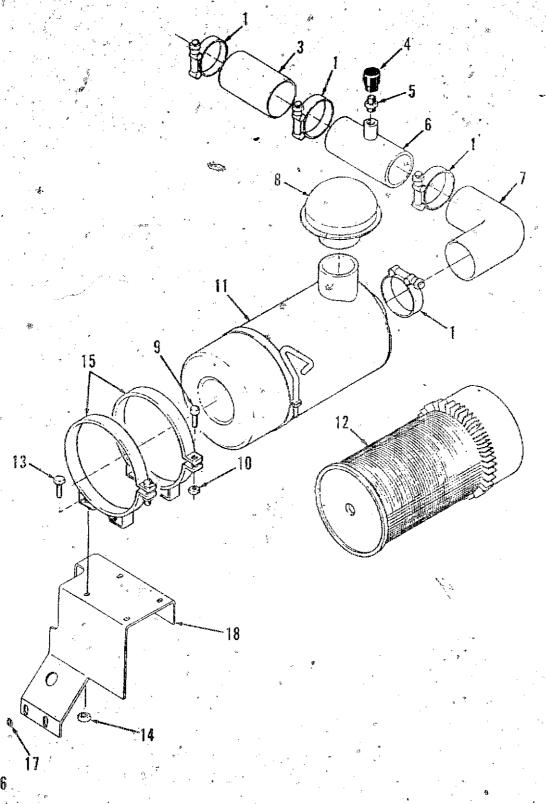


Cooling System

REF NO		QTY USED	PART DESCRIPTION		REF NO.	PART NO	OTY USED	PART DESCRIPTION
1	130-3209-01	1	Guard, Fan (RH)		18	130-3216	1	Spacer, Fan
2	821-0018	36	Screw, Lockhead	FF .	19	800-2096	4 ,	Screw, Cap - Hex Head
	*		$(1/4 - 20 \times .62")$			##		$\sim (M10 \times 1.5 \times 75 \text{mm})$
3	130-3217	1	Guard, Belt (RH)	•		850-2010	4	Washer, Lock (M10)
4	130-3205	1 .	Wrapper, Shroud - Fan			13043208	1 '	Fan Cooling
5	130-3218	1	Guard, Belt (LH)		22	130-3203	1	Support Grille
6	821-0029	ૂ 14	Screw, Lockhead		⊋23	130-3210	1	Grille
2	April 1	3.5	$(3/8 - 16 \times .75")$	٠.	24	130-3202-01	1	Guard, Radiator (RH)
7	130-3206	√°2	Shripud, "Fan		25	504-0003	1	Cock, Drain
~ 8	130-3211	ĩ	Tube, Inlet - Radiator		26	130-3209-02.	1	Guard, Fan (LH)
9	503-0465	4	Clamp, Hose		27	130-1788	ĺ	Cap, Radiator .
10	503-1379-01	2	≪Hose, Radiator (2.25 ID)		28	820-0028 .	1.6	Screw, Lockhead
11	130-3212	1	Tube, Outlet - Radiator					(3/8 - 16 × .50")
12	503-1599	ĺ	Hose; Radiator (2.00 ID)	S	29	193-0322	1	Sender, Coolant - Low
13	503-0365	3	Clamp, Hose			338-1919	1	Harness, Wiring - Yow Coolant
14	130-3207	1	Radiator *		: 31	502-0153	3∽	Plug, Piper - Hex
15	870-0281	15	Nut, Lockhead (3/8 - 16)			-821-0010	8	Screw, Lockhead
16	130-3204	1	Support, Grille					$(1/4 - 20 \times .50")$
17	130-3202-02	. 1	Guard, Radiator (LH)		. •			4

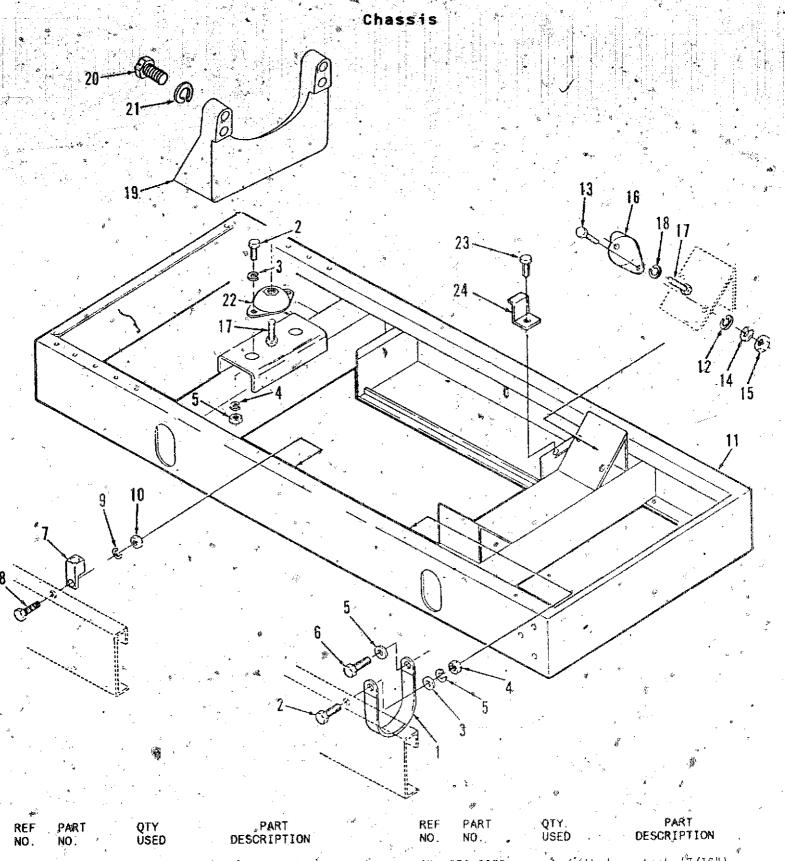


Air Cleaner



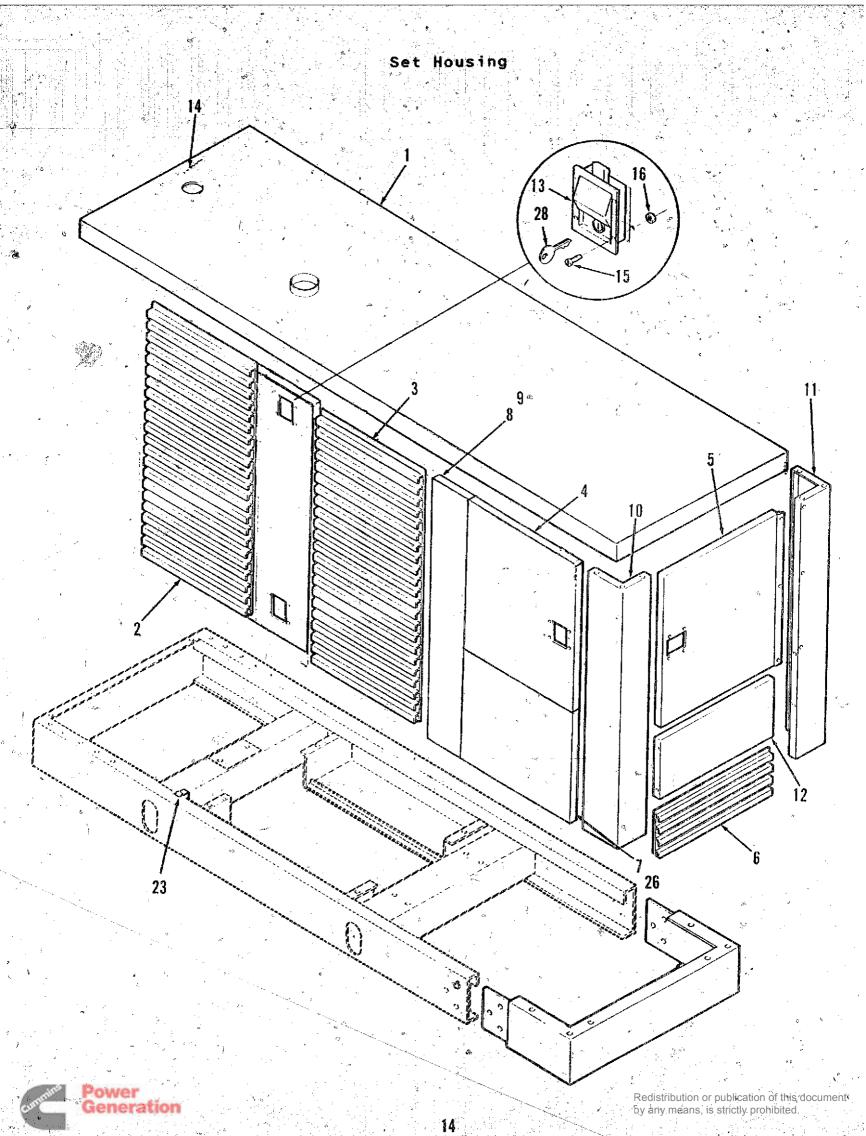
	1 1							·
REF NO.	PART NO.	QTY USED	PART DESCRIPTION			ART IO. «	QTY USED	PART DESCRIPTION
1	508-0900	. 4	Clamp, Hose	. 1	2 140	-2241	, 1	Element, Cleaners Air
3	503-1595	1 :	Hose: Radiator	ø 1	3 821	-0029	4	Screw, Lockhead 🛴 🧠 👈
4	140-1548	1	Indicator, Service					· (3/8/ \$16 x 3/4")
a - 5	140-1260	ī	Adapter, filter - Indicator	1	4 870	-0281	4	Nut. Lockhead (3/8 - 16)
Ġ	140-2238	1	Nube, Inlet - Air	1	5 140	-19 73	54	Band, Mounting
7	503-1354	1 .	Elbow, Rubber - Molded		6 800	-2110 m-	3	Screw, Cap - Hex Head
8	°140≂1601	$\bar{1}$	Hood, Inlet - Air					(M12 x 1.75 x 20mm)
9	815-0115	2.	Screw, Machine - Fillister	S % 1	7 850	-2012	· 3	Washer, Lock (M12)
- A			Head (1/4 - 20 x 1")	1	8 140	2 23 9	/:1.	Bracket, Mounting - Air
10	863-0002	2	Nut: Square (1/4 - 20)		в.		r	Cleaner
170	140-2240	-1	Cleaner, Air (Includes	9.3	,	3 	: F	Redistribution or publication of this docum
Ge	eneration		Element)					y any means, is strictly prohibited.
	10	(1) 10 とうしょう		2 6	·			

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						198"		6	ar-
REF NO.		QTY USED	PART DESCRIPTION	, _w i	REF NO.	PART NO	QTY. USED	PART DESCRIPTION	
1.	337-0090	` 1	Strap, Electrical	Ground	1.4	850-0055	4	Washer, Lock (7/16")	
1	800-0091	3	Screw, Cap - Hex Hea	4	15	862-0004		Nut, Hex (7,/16 - 14")	
2	cooboat	٠. ي	$(1/2 - 13 \times 1.25")$		16	402-0568		"Cushion, Vibration	į
	000 0000		Washer, Lock (1/2")			800-0520	. 3	Screw, Cap - Hex Head	
: 3	850-0060	ν _ή 3			Υı	2000 0020		(3/4 - 10 x \$1.00°)	•
4	862-0016	3	Nut. Hex (1/2 - 13")		10	850-0079	5P "2	Washer, Lock (3/4")	
- 5	856-0013	2	Washer, Lock - EIT (18		S r	Support, Engine (Machine	11.6
, 6	#800-2111 <u></u>	* 1	_Screw, Cap - Hex Hea		19	403-2690		. Support, thy his (Mechine	247
			$(M12 \times 1.75 \times 25 mm)$	•	56	800-2124	 4	Screw, Cap - Hex Head	
7	332-1473	1	Lug, Solderless	. as	•	- - -	* 4	(M12 × 1:75 × 90mm)	
8	800-0026	1	Screw: Cap - Hex Hea	d	21	850-2012	- 5	"Washer, Lock (M12)	
W			$(5/16, -18 \times 3/4")$. 22	402-0030	1	Cushion, Vibration	
0	856-0008	1	Washer, Lock - EIT (23	800-0048	4 *	Screw, Cap - Hex, Head	
10	870-0257	* 2 * 1 2	Nut; Hex Lock (5/1	6 18")		F		$(3/8 - 16 \times 3/4")^{5}$	
11	403-2687	i	Base, Skid	વૈ	24	416-0850	_ 4	*Bracket, Battony	
出人 :	1526-0219	â	Washer, Flat (1/2")		. "			4	.
2		, i	Screw, Cap - Hex Hea	a c				Redistribution or publication of this	docur
10	800-0071	tion	(7/16 - 14 x 1.00")	•			Sec. 25	by any means, is strictly prohibited	
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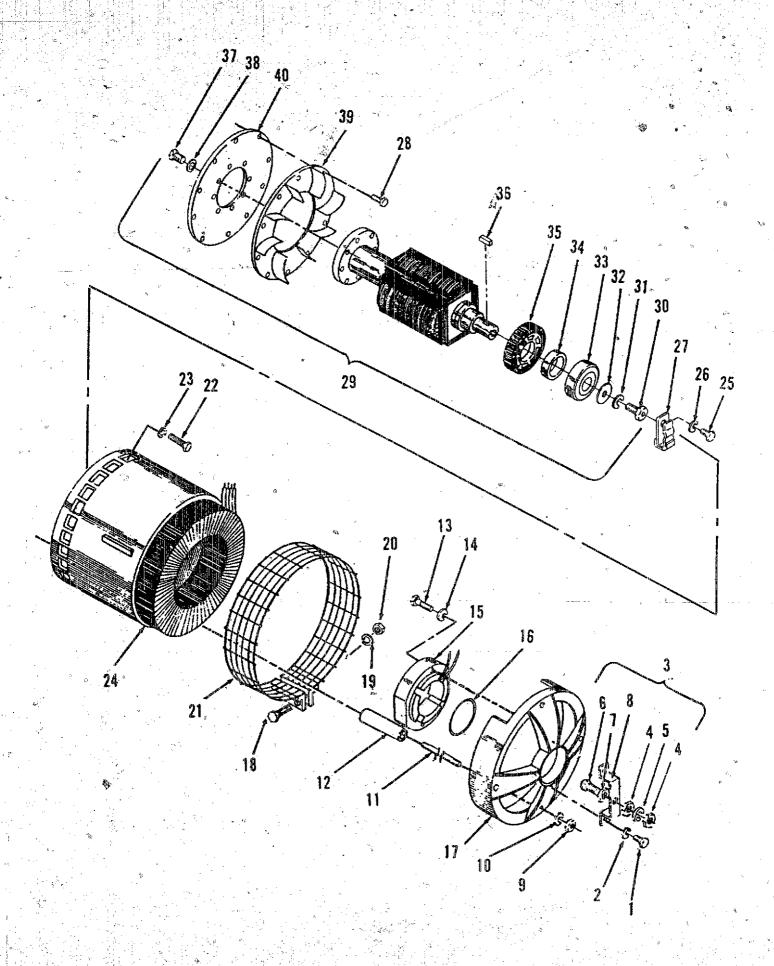
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Set Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	OTY USED	PART DESCRIPTION
1	405-3967	1	Top, Housing		819-1083	15	Screw, Head - Pan
2	405-3962 -	. 2	Door, Grille		g distance 🚅 AT	그렇게 되는	$(1/4 - 20 \times .44")$
. 3	405-3961	2	Door, Grille		821-0014	8	Screw, Hex - Lock
4	405-3950	2	Door, Side				$(5/16 - 18 \times 1/2")$
5	405-3952	1	Door, Gontrol		870-0257	4	Nut, Lock - Hex (5/16 - 18)
6	405-3833	1	Grille	100	821-0029	22	Screw, Hex - Lock
	405-3984	1	Door, Access (RH)	, o'	er er egannera		(3/8 - 16" x 3/4")
• .	405-3963-01	1	Post, Housing (Center) (RH)		870-0281	18	Nut, Lock - Hex (3/8 - 16)
100 30 0			Post, Housing (Center) (LH)		819-1102	, 50	Screw, Head - Pan
1 0	405-3859-01		Post, Housing (Rear) (RH)	,		-	~ (5/16~ 18 × 1)(2号)
11.	405-3859-02		Post, Housing (Rear) (LH)	23	405-3980	2	Stop, Door - Housing
12	405-3828	1	Panel, Housing (Rear)		821-0018	4	Screw, Head - Lock
13	406-0626	7	Handle, Housing				$(1/4 - 20 \times .62")$
14		2	Decal, Fill - Coplant		870-0212	4	Nut, Hex - Lock (1/4 - 20)
15	815-0607	28	Screw, Hex - Oval	26	405-3985	1	Door, Access (LH)
, L,U	010 0001	- ¥	(#8 - 32 x 38")	. - -	128-0116	1*	Insulation, Foam
- 1 ₆	870-0235	28	Nut tock (#8 - 32)	28	406-0639	1	Key, Handle - Door





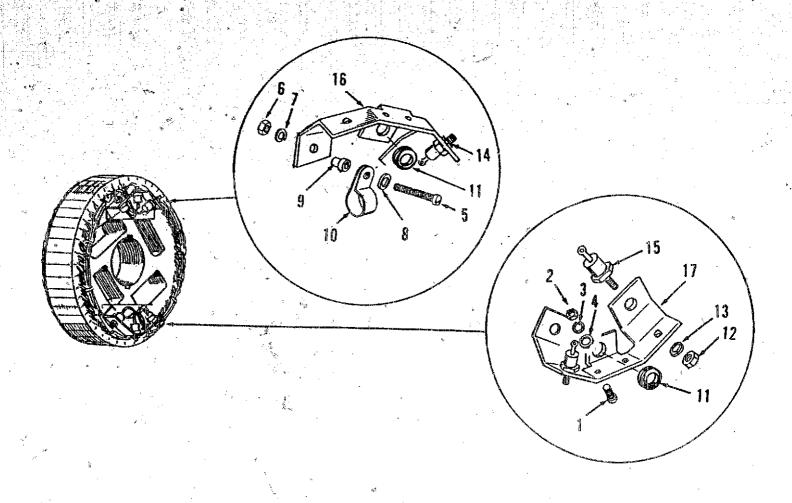


Generator

REF NO.		QTY USED	PAŘT DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	E000-0003	2	Screw, Cap - Hex Head (1/4 - 20 x 1/2")	25	800 -0048	+- 1	Screw, Cap - Hex Head
2.	850-0040	2 "	Washer, Lock - Spring (1/4)	26	856-0010		$(3/8 - 16 \times 3/4")$
3	150-1456	ī	Contact Assembly - Overspeed		150-0717	1.	Washer, Lock - EIT (3/8)
			(Includes Parts Marked *)		805-0018	8	Switch, Overspeed
4	862-0001	20	*Nut, Hex (1/4 - 20)		002.0010		Screw, Cap - Hex Head
5	853-0013	1	*Washer, Lock - ET (1/4)	29		411	(3/8 - 16 × 1")
- 6	150-0723	1	*Contact, Electrical	£.7	Name of the second		Rotor Assembly, Generator
7	870-0250	1	*Nut, Insulated	'	201~3267	1	DGEA
8	150-1356	1	*Bracket, Mounting - Contact	17	201-3414-02	1	Standard
. 9	750-1008	4	Nut, Hex (M10 x 1.5)	a	201-3273	. <u>1</u>	Extended Stack DGFA
10	850-2010	4	Washer, Lock - Spring (M10)	30.	800-0513	1	Screw, Cap - Hex Head (Mod)
´ 11	C = tv,		Stud (M10)		850-0079	* 1	Washer, Lock (3/4)
10	520-2420	4	13"		526-0238	1	Washer, Flat (3/4)
9	520-2421	4	15"		510-0101	1	Bearing, Ball
12	503-1274	4	Hose, Rubber		232-2102	1	Spacer, Sleeve
13	800-0009	a . 4	Screw, Cap - Hex Head		201-1739	+	Rotor, Assembly - Exciter
	··-		$-(1/4-20 \times 1-1/2")$				(See Separate Page for
14	850-0040	4	Washer, Lock - Spring (1/4)		a. ,,	\$84	Components)
	220-2353		Stator, Exciter	36	515-0145	1	Key, Machine
	509-0125	1	Seal, Oil - "O" Ring		805-0035	8	Bolt Hex Head - Special
	211-0185	1	End Bell, Generator		:	•	$(5/8 - 11 \times 1 - 1/2")$
18	114-0023	2	Screw, Cap - Hex Head	38	526-0259	- 8	Washer, Flat (5/8)
			$(1/4 - 20 \times 1 - 1/4")$	39 😁	205-0089	1	Fan, Cooling - Generator
19	850-0040	2	Washer, Lock - Spring (1/4)	40	232-2078	1	Disk, Drive - Generator @
20	862-0001	2	"Nut, Hex (1/4 - 20)				150
21	234-0368	1	Screen, Air			•	
22	718-1056	8	Screw, Cap - Hex Head	* Pa	rts include	d in Ove	grapeed Contact Assembly.
· e _			$(M10 \times 1.5 \times 35mm)$	+ Pa	rts include	d in Gei	erator Rotor Assembly.
23	85 0 -2010	8	Washer, Lock - Spring (M10)				
24			Stator, Generator		•		
₹ 1	r	5	Voltage Code L				
1			DGEA				*
1	220-1461	1	Standard				•
	220-1463	1	Extended Stack				
Į,	220-1462	1	DGFA				N.
k,			Voltáge Code Z				
, ,	220-2004	1	DGEA				
- <i>"</i>	220-2005	1	DGFA				



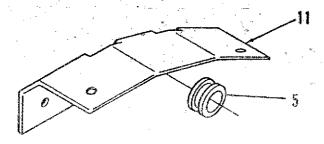
* Exciter Rotor Components

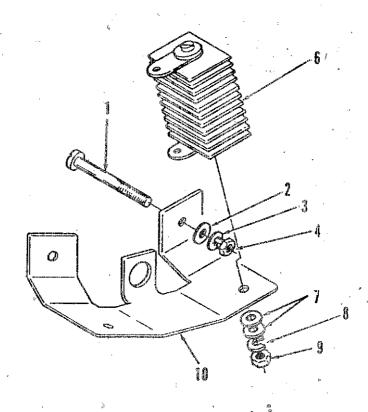


RE	F PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	201-1739	1	Rotor Assembly, Exciter	9	508-0187	4	Spacer, Stepped
1	813-0100	2	Screw, Machine - Round Head	10	332-0050	2	Clamp, Loop
			$(#10 - 32 \times 1/2")$	11	508-0093	2	Grommet, Rubber
1	870-0053	2	Nut, Hex (#10 - 32)	12	870-0053	6	Nut, Hex (#10 - 32)
3	850-0030		Washer, Lock - Spring (#10)	13	850-0030	6	Washer, Lock - Spring (#10)
	526-0008	2	Washer, Flat (#10)	14	358-0097	3	Diode, Rectifier - Positive
	813-0110	4	Screw, Machine - Round Head		4		(CR1, CR2, CR3)
			$(#10 - 32 \times 2")$	15	358-0096	3	Diode, Rectifier - Negative
~ 6	870-0053	4	Nut, Hex (#10 - 32)				(CR4, CR5, CR6)
7	850-0030	4	Washer, Lock - Spring (#10)	16	363-0054	1	Sink, Heat - Positive Diodes
8	526-0009	4	Washer, Flat (#10)	17	363-0055	· ī	Sink, Heat - Negative Diodes



Voltage Suppressor Components

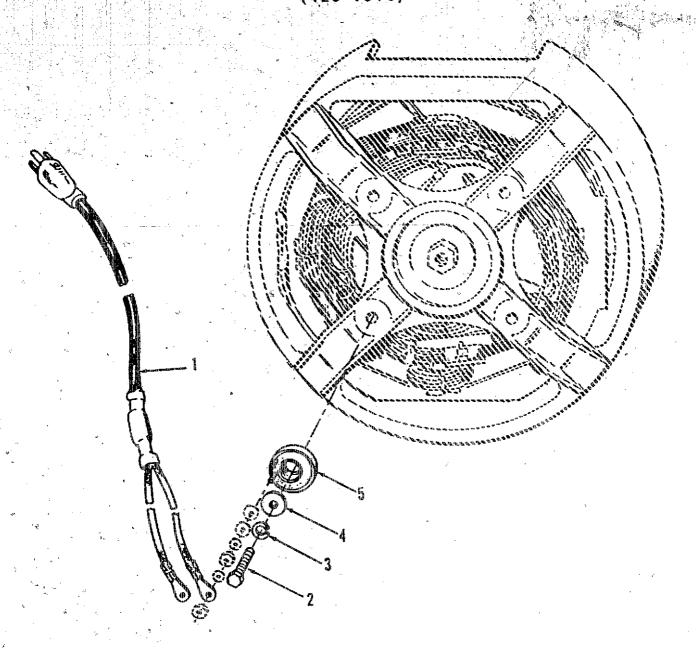




RÉF NO.	PART NO:	QTY USED	PART DESCRIPTION	REF NO.		QTY : USED	PART DESCRIPTION
1 3 2 = 3 3 4 4 1	232-2445 \$13-0112 526-0140 850-0030 870-0053 508-0093	4 4 4 2	Suppressor, Voltage Screw, Machine - Round Head (#10 - 32 × 2-1/2") Washer, Flat (#10) Washer, Lock - Spring (#10) Nut, Hex (#10) Grommet, Rubber	6 7 8 9 10	305-0526 526-0140 850-0030 870-0053 363-0054 363-0055	1 4 4 1 1	Suppressor Set, Voltage Washer, Flat (#10) Washer, Lock - Spring (#10) Nut, Hex (#10 - 32) Sink, Heat - Positive Sink, Heat - Negative

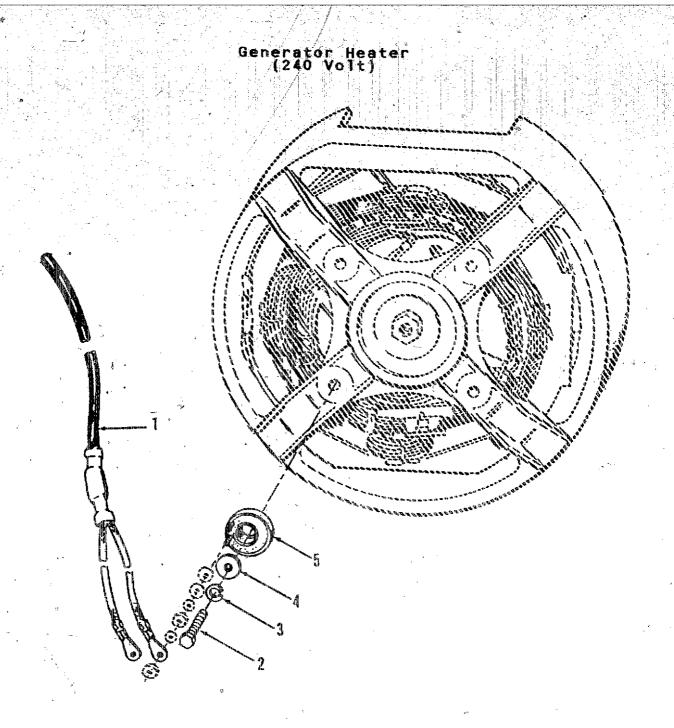


Generator Heater (120 Volt)



REF PART	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	٠.	QTY USED	₹*	: PART DESCRIPTION
1 335-0146	1	Cable Assembly, Electric - 120V (Includes Thermostat)	. 3	850-0038 526-0158	•	1 .	Washer	. Lock - Spring (1/4) , Flat (1/4)
2 800-0004	1	Screw, Cap - Hex Head (1/4 - 20 x 5/8")	5	333-0059		1	Heater 125 W	, Electrical - 120 VAC att

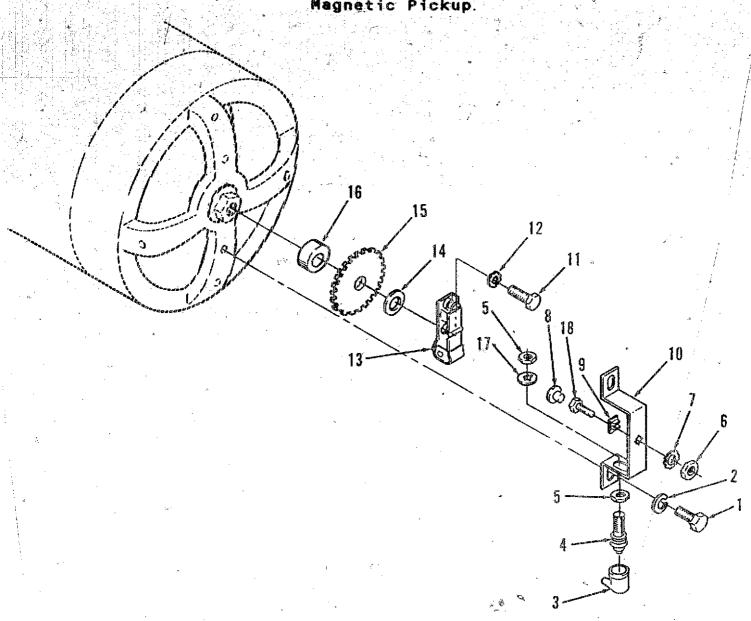




REF	PART NO.	QTY USED	PART DESCRIPTION	REF	PART NO.	QTY USED	DES	PART CRIPTION	
1		٠	Cable Assembly	2	800-0004	1	Screw, Cap	- Hex Head	{1/4
	226-0090	1	Lead				20 x 5/8"		
	226-3615	1	Lead Assembly (Includes	3	850-0038 *	1	Washer, Loc	ж (1/4) —	
			Diode Rectifier)	4 '	526-0158	1	Washer, Fla	at (1/4)	
•	357-0013	1	Rectifier, Diode	5	333-0379	1	Heater, Ri	ig - 240 V.	300 W
	898-0020	1	Sleeving, Insulation (15")			6			the second second second second
	508-0114	2	Gronmet					•	
	309-0258	1	Thermostat			•	. S	*	
	898-0863	1	Sleeving, Insulation (4")			•			
noire I	332-1506	1	Connector, Parallel		*				
	334-0759	ï	Wire, CCXL - 14 Ga						
	332-1445	5	Tie, Cable						
			•			e .			



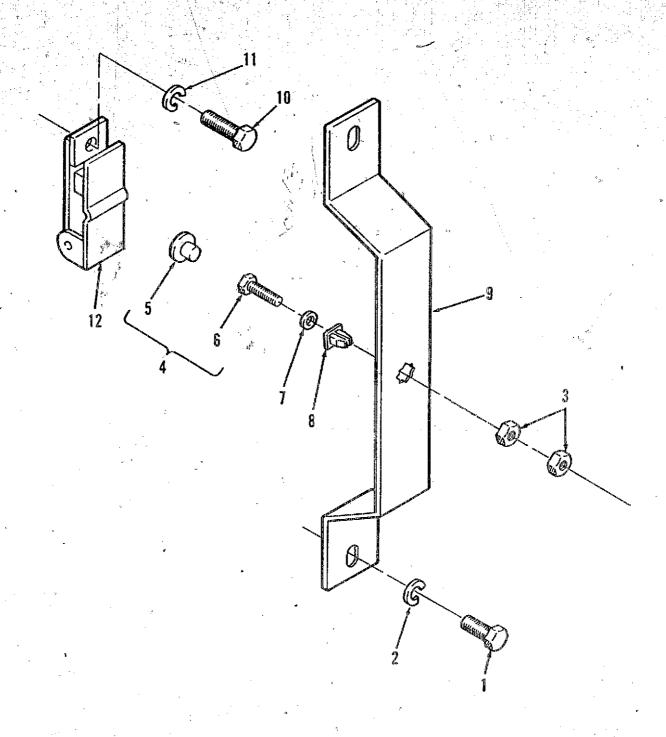
Magnetic Pickup.



REF NO.	PART .	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0003	2	Screw, Cap - Hex Head (1/4 - 20 x 1/3")	10 11	301-9402 800-0053	1 /	Bracket, Mounting Screw, Cap - Hex Head (3/8 -
2.	850-0040 apr	2	Washer, Lock - Spring (1/4)		in the	-/-	$16 \times 1 - 3/4$ ")
	150-1410	1	Cap, Insulator	12	856-0010	1/	Washer, Lock - W/EIT (3/8)
4	150-1406	1	Sensor, Speed - Magnetic	13	150-0717	1/	Switch, Overspeed
-5	868-0011	2	Nut, Hex ₁ - Jam (3/4 - 16)	14	526-0077	·· 1	Washer, Flat (3/8)
6	862-0001	2	Nut, Hex ⁶ (1/4 - 20)	15	150-1557	/1	Wheel, Sensor - Speed
7	853-0013	1	Washer, Lock - W/ET (1/4)	16	370-4011	/ 1	Spacer, Sleeve
8	150-0723	1	Contact, Electrical	17	854-0031	/ 1	Washer, Lock - W/IT (3/4)
9 .	870-0250	1.	Nut, Insulator			1	

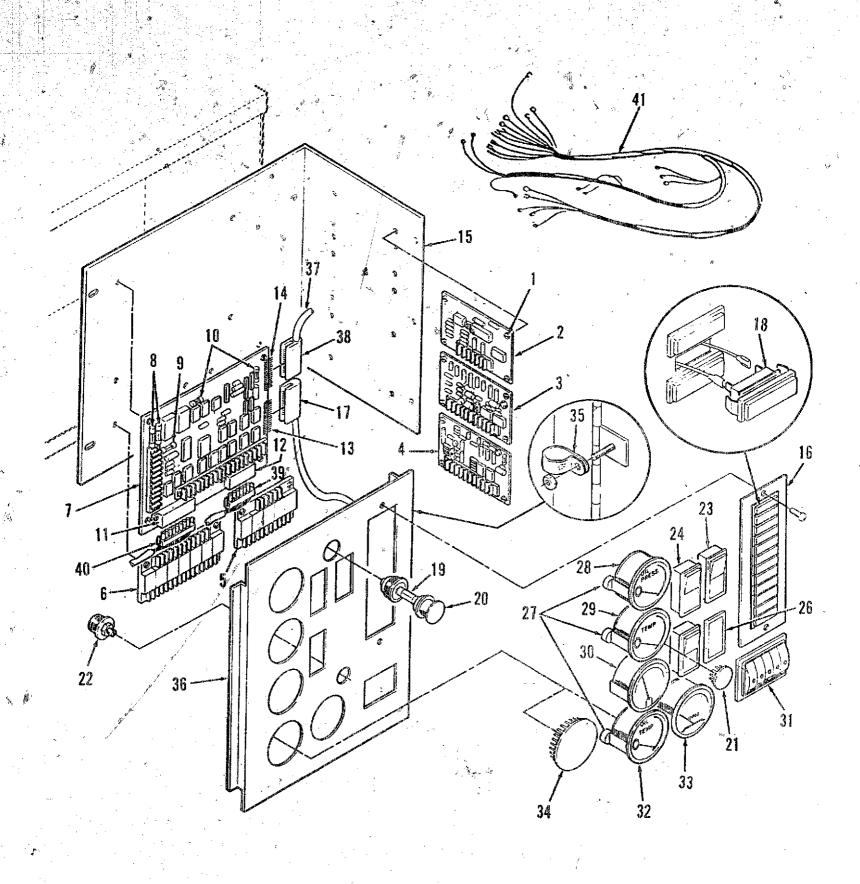


Overspeed Switch Assembly



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF	PART NO.	QTY USED	PART DESCRIPTION
1	800-0003	2	Screw, Cap Hex Head (1/4 -	7	853-0013	1	Washer, Lock - W/ET (1/4)
	, a		20 × 1/2")	8	870-0250	1	Nut, Insulating (1/4)
2	850-0040	2	Washer, Lock - Spring (1/4)	9	150-1356	1	Bracket, Mounting
. З	862-0001	2	Nut, Hex (1/4 - 20)	10	800-0048	1	Screw, Cap - Hex Head (3/8 -
4	150-0723	1	Point Assembly, Overspeed		000 0040	ъ,	16 x 3/4")
	• .		(Includes Contact And Screw)	11	856~0010	1	Washer, Lock - W/EIT (3/8)
- 5.	306-0036	1	Contact, Electrical	12	150-0717	1	Switch, Overspeed
6	150-0724	1	Screw, Cap - Hex Head (Mod)	17	9	. *	Section, sand about







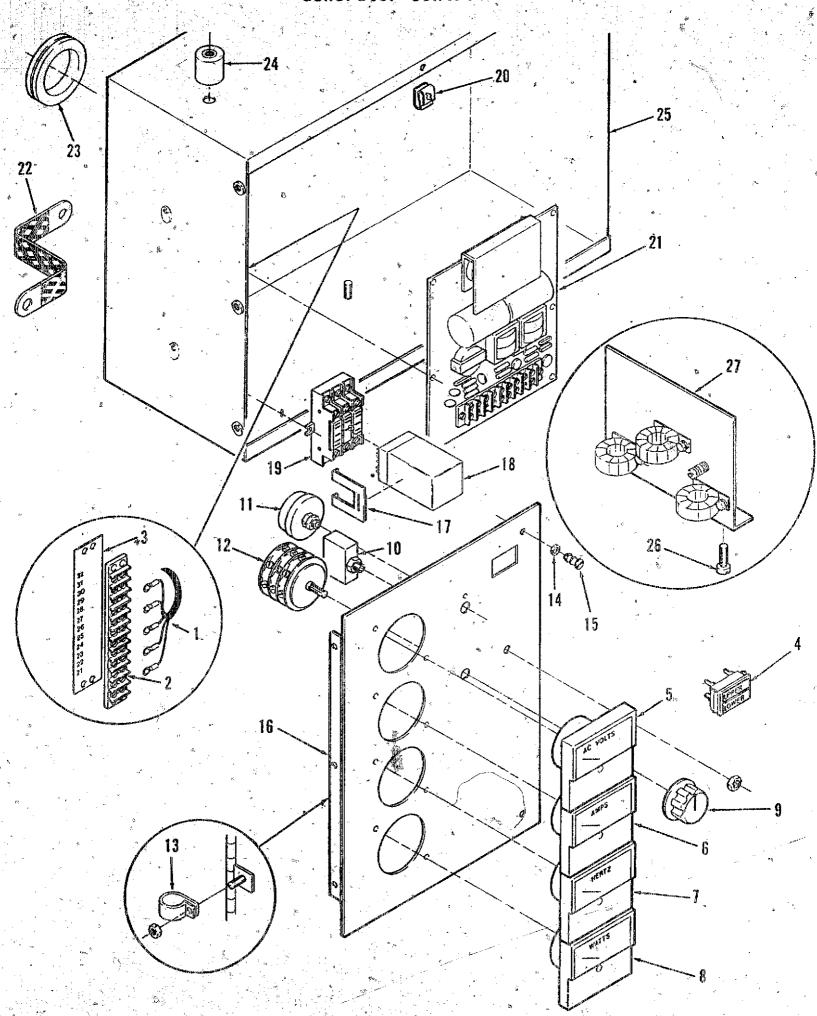
Engine Control

REF		QTY	PART	REF	PART	QTY	PART
NO.	NO.	USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
1	815-0544	24	Screw, Machine - Round Head	17	323-1310	₹	
٠,			IT Washer (#6 - 32 x 1/2")	17	323=1310 323=1302	1 13	Housing, Conn - 13 pin (J3) (Contact, Pin
2	300-2899	1	Board, Printed Circuit -	18	322-0369-02	1.3	Lamp, Incandescent - 1/3 Watte
÷		·	Time Delay: Start/Stop (A15)	10	0000 0Z	T.	28 Volts DC
3.		•	Board, Printed Circuit	19	322-0017	1	Lamp, Incandascent - 28 Volts
			Magnetic Pickup (A16)				DC (DS11)
15	300-2903	1	Standard (Fixed Sensitivity)	≢ 20	322-0361	-1	Holder, Lamp
	300-2904	1	Precision (Adj Sensitivity)	21	517-0131	1 "	Plug Button
4	300-2906	1 .	Board, Printed Circuit -	22	151-0402	1 ,	Potentiometer - Speed Cantrol
			Over/Under Volt Sensor (A17)	•			(R11)
5	300-2856 .	1 .	Board, Printed Circuit -	23	308-0785	1	Switch, Push - Reset/Panel
			Relay Assembly - (A13)				Lamp (\$11)
6	300-2863	1	Board, Printed Circuit -	24	308-0784	. 1	Switch, Push - Run/Stop/
	•		Relay Assembly - (A14)				* Remote (\$12)
7	•	r.	Board, Printed Circuit -	26	301-6257	1	Cover, Hole - Switch
	-		Engine Monitor - (A11)	27	193-0250	3 .	Resistor, Gauge (R12)
			(Includes Fuses & Connectors)	28	193-0352	1	Gauge, Pressure - Oil (M11)
	300-2808	1	2 Light Control	29	193-0351 °	1	Gauge, Temp - Water (M12)
	300-2810	1	7 Light Control 1	30	302-1642	1	Meter, Volt (M13)
	300-2812	1	12 Light Control	31	302-0885	1	Meter, Running Time (MI4)
8	321-0270	2	Fuse, Cartridge - 20 Amp	32	193-0330	1	Gauge, Temp - Oil (M15)
	201 2021		(F1, F2)	33	302-1715	1	Meter, Tach (M16)
9	321-0231	1 ,	Fuse, Cartridge - 15 Amp	34	517-0221	1	Plug, Büttón
10	201 0004	١	(E3)	35	°332-0052	1	Clamp, Loop
10	321-0094	2	Fuse, Cartridge - 5 Amp		870-0131	2	Nut, Self-Locking - ET Hex.
11	202 1205	1	(F4, F5)				Washer Head (#10 / 32)
11	323-1305	1	Connector - 8 Pin (P1)	36	201 4055 44		'Door, Control
12 13	323-1303	1	Connector - 6 Pin (P2)		301-9055-01	1	5 Gauge Holes
14	323-1309 323-1307	1	Connector - 13 Pin (P3)	- et	301-9055-02	1	3 Gauge Holles
15	301-8851	1	Connector - 12 Pin (P4)	37	338-2277	1.	Harness Assembly, Wiring - DC
15	301-0001	1	Bracket, Mounting - Printed	aà.	300 1000	1	(Includes Connector Housing)
	821-0004	4	Circuit Board Screw, Self-Locking - Hex	38	323-1308	1	Housing, Conn - 12 Pin (J4)
	021 0004	. +	Washer Head (#10 - 32 ×)	່າກ		12	Contact, Pin
			5/16")	3.0	323-1304		*Housing, Conn - 6 Pin (J2)
16			Module, Indicator - Fault	40	323-1200		* Contact, Pin *Housing, Conn - 8 Pin (J1)
10	*		(A12) (Includes Connector	4,0	323-1306 323-1200	1 8	* Contact, Pin
			Housing)	41	and the second s	1	Harness, Wiring - Control To
	322-0358-02	1	2 Light Control	41.	338-2282	T	
	322-0359-02	1	7 Light Control				Engine (Includes Parts Marked *)
	322-0360-02	1	12 Light Control	12.	517-0137	1	Plug, Hole
	815-0385	4	Screw, Machine - Round	43	98-5219	1	Decal, Door - Outside
	010 0000		Head (#6 - 32 x 1/2")	44	98-5219 98-5220	1	Decal, Door - Inside
	870-0183	4	Nut, Self-Locking - ET	***	JU UZZV	1	boods, boot illistue
	0.0 0100	-	Hex Washer Head (#6 - 32)				
			TION HUSING! HEAD (WO DZ)	ak o.,	الممامين المسأم المناسم		armal To Consider Window House

^{*} Parts included in Control To Engine Wiring Harness Assembly.



Generator Control



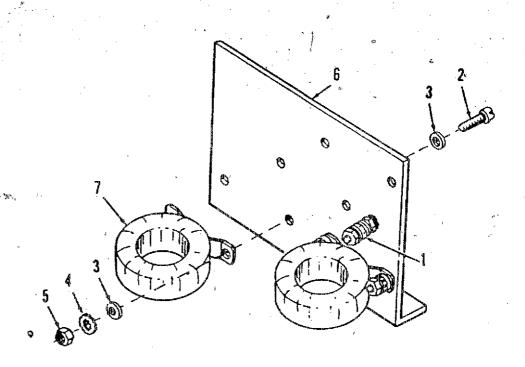


Generator Contro

REF NO.		OTY USED	PART DESCRIPTION	REF		QTY USED	PART. DESCRIPTION
1	338-2278	1	Harness, Wiring - AC	16.			Door, Control
t*		. :	(Includes Terminal Block)		301-9054-01	-1	4 Meter Holes
			(Only in Controls With Meters)	٠	.301-9054-02	1	3 Meter Holes
	812-0065	, 2 _ ,	Screw: Machine - Round Head		301-9054-03	1	No Meter Holes
			(#6 - 32 🛪 5/8")	٠.	821-0004	3	Screw, Self-Locking-Hex
3	332-0607	1	Block, Terminal (TB1).			. # .	Washer Head (#10 - 32 x
3	332-2723	1	Steip, Marker	è	**	•	5/16")
.4	322-0363	1	Light, Indicator - Dual 🛴 👢		· 307-1987	2	Clip, Retaining, Relay
			(D\$21, D\$22)		307-1056	1	-Relay, 24 VDC
5	302-1148	1	"Meter, Wolt - AC (M21)	19)	(323-0804)	1	Socket, Relay
b			Meter, Ampere (M22)		815-0544	2	Screw, Machine - IT Round
	302-1724	1	0-250/500		60		Washer Hd (#6 − 32 x 1/2°)
	302-1725	, 1	0-375/750	, 20°	406-0332	2	Receptable, Turnburton
. '	302-1726	1	0-400/800		*		Fastener
-	302-1727	1	0-500/1000	21	300-2880	1 1 × 3	.Regulator. Voltage (VR21)
· 7	302-1720	1	Meter, Frequency (M23)		815-0544	6	Screw, Machine - IT Round
. 8		ì,	, Meter, Watt (M24) (See		age of the		• Washer Hd (#6 - 32 \times 1/2") \sim
			Separate Page For Components)	. 22	. 337-0049	1 .	Strap, Electrical (Ground)
9	303-0032	1	Knob		800-0024	1	Screw, Cap - Hex Head
10	*	1.	Breaker; Circuit (CB21)			4 -	$(5/16 - 18 \times 1/2^{\circ})$
	320-1121	1	Without Auxiliary Contacts		856-0008	1 .	Washer, Lock - EIT (5/16)
	320-1438	1	With Auxiliary Contacts		1508-0051	, 1	Grommet
11	303-0261	1	Rheostat (R21)	24	402~0527	44	Mount, Vibration '.
12	308-0882	1	Switch, Rotary (S21)	*	800-0045	4:	Screw, Cap - Hex Head
13	332-0052	1	Clamp, Loop				$\sim (5/16 - 18 \times 3/8")$
	870-0131	1	Nut; Self-Locking - ET Hex		850-0,045 °	4	Washer, Lock - Spring (5/16)
			Washer Head (#10 132)		301-8065	1	Box, Control
14	406-0334	. 2	Clip, Retaining - Turnbutton	26	821-0010	2	Screw, Self-Locking ← Hex Washer Hd·(1/4 - 20 x 1/2")
15	. 406-0333	2	Stud, Fastener - Turnbutton	27	* ************************************	1.	Transformer Assembly - Current
	·					,*	(See Separate Page For Components)
,			ŋ	, .	•		Combonants)



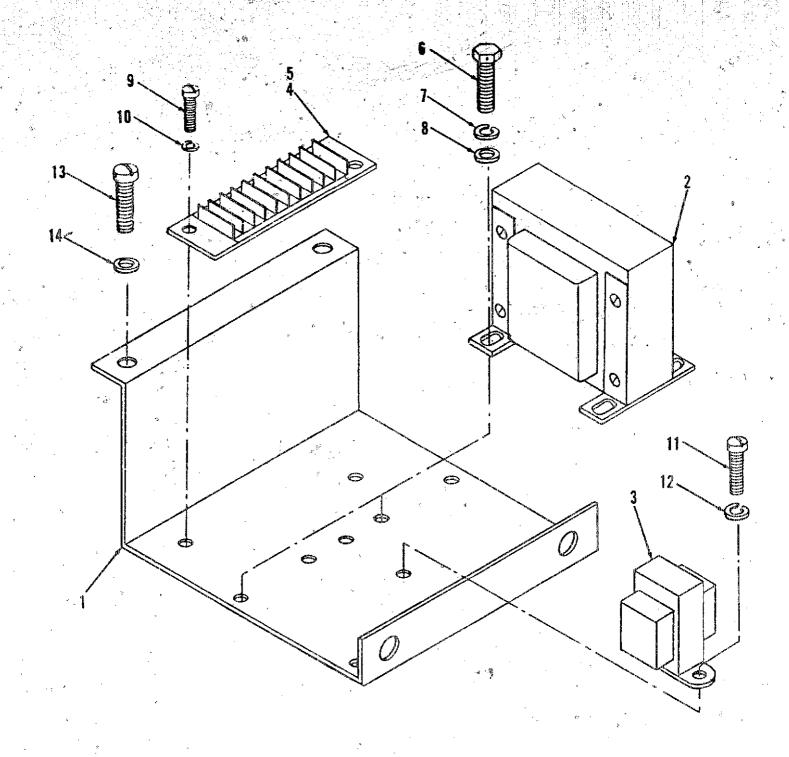
Current Transformer



REF, NO.	. PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY U S ED	PART DESCRIPTION
f	e		Terminal Assembly, Ground	3	526-0008	12	Washer, Flat
٠.	815-0203	· 1	Screw, Machine - Round Head	4	856-0003	6	Washer, Lock - EIT (#10)
	010 0200	-	Bottom (#10 - 32 \times 7/8")	5	870-0053	6	Nut, Hex
	871-0010	3	Nut, Hex (#10 - 32)	6	302-0764	1	Bracket, Mounting
	856-0003	ī	Washer, Lock - EIT (#10)	7			Transformer, Current
	854-0010	2	Washer, Lock - W/IT (#10)		302-1868-05	5 3	DGEA (250/5 % 500/5)
	526-0049	2	Washer, Flat - Brass (#10)		302-1868-06	3	DGFA (300/5 & 600/5)
Ż *	821-0005	6 -	Screw: Machine - Round Head (#10 - 32 x 1/2")		•		



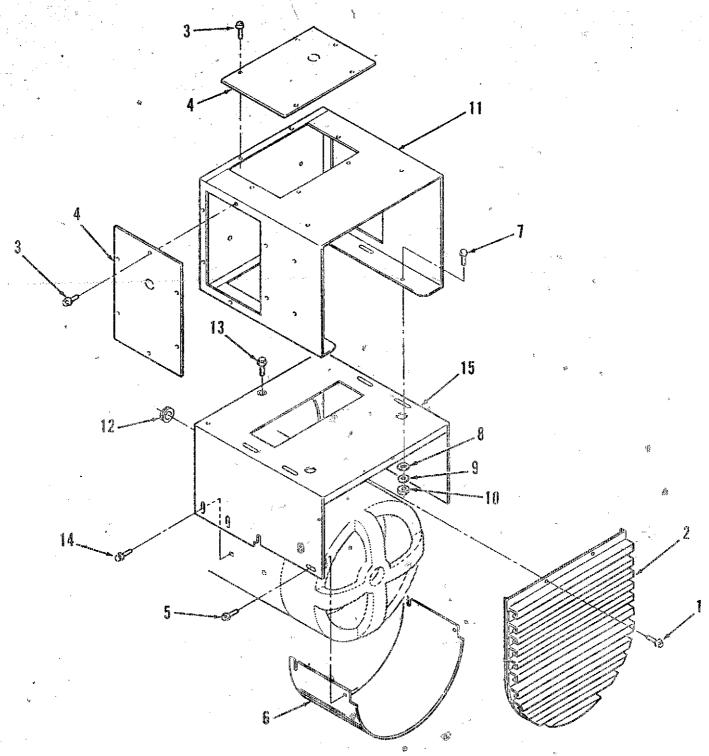
Current Transformer (Voltage Code, E)



_	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	1	301-9540	1	Bracket, Mounting - Transformer	9	812-0077	. 2	Screw, Machine - Round Head
	2	315-0636	2	Transformer, Current			1	(#8 - 32 x 3/8°)
	3	315-0635	1	Transformer, Current	10	850-0025	2	Washer, Lock (#8)
	4	332-2562	1	Block, Terminal	11	812-0079	2	Screw, Machine - Round Head
	5	332-2563	1	Strip, Marker		A		(#8 - 32 × 1/2")
	6	800-0007	8	Screw, Cap - Hex Head (1/4 -	12	850-0025	2	Washer, Lock (#8)
:	2		÷	20 x 1")	13	812-0156	4	Screw, Machine - Round Head
	7	850-0040	B	Washer, Lock (1/4)				$(1/4 - 20 \times 1 - 1/2)$
٠.		526-0018	8	Washer, flat (1/4)	14	850-0040	đ,	Washer, Lock (1/4)



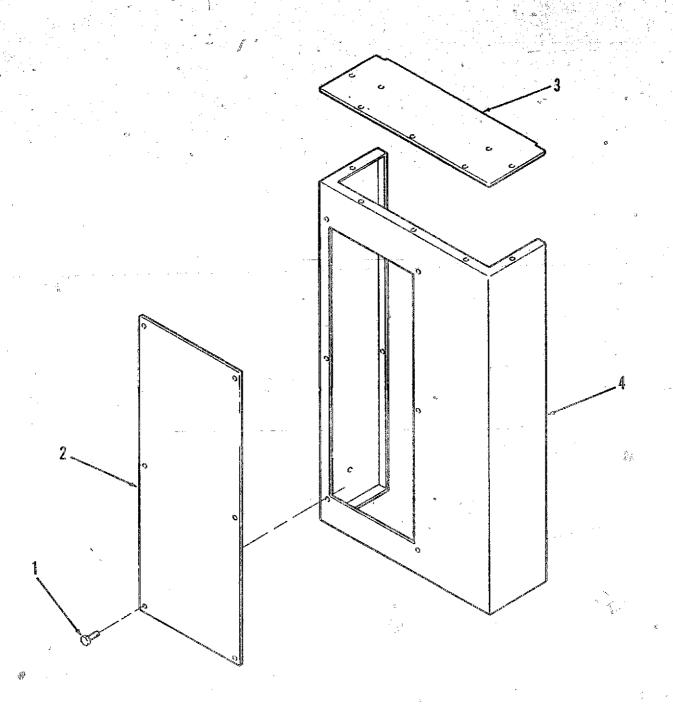
Control Housing



REF	PART	QTY	PART	REF		QTY	PART
NO.	NO.	USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
1	812-0146	8	Screw, Self-Locking - Hex	10 [©]	870-0212	6	Nut, Hex (1/4 - 20)
		•	Washer Head $(1/4 - 20 \times 3/8")$	11	301-3155	1.	Housing, Box, Control
. 2	234-0370	1	Grille, Inlet - Air	12			Grommet
. 3	815-0350	18	Screw, Tap - Hex Washer Head		508-0203	1	Used Thru October 1984
		·	$(#10 - 32 \times 3/8^{n})$				(1" ID)
4	301-3156	3	Panel, Access		5 08 -0051	. 1	Used Beginning November 1984
5	821-0010	6	Screw, Self-Locking - Hex			•	(1-3/4" ID)
	•		Washer Head $(1/4 - 20 \times 1/2)$	13	821~0010	1	Screw, Self-Locking - Hex
6	234-0361	1	Wrapper, Bell - End		# · ·		Washer Head $(1/4 - 20 \times 1/2")$
7	321-0018	6	Screw, Self-Locking - Hex	14	821-0014	8	Screw, Self-Locking - Hex
	W 1		Washer Head (1/4 - 20 x 5/8")				Washer Head $(5/16 - 18 \times 1/2")$
. 8	856-0006	1	Washer, Lock - W/EIT (1/4)	15	301-3154	1	Sadle, Box - Control
9	526-0018	5	Washer, Flat (1/4)	16	850-0040	4	Washer, Lock (1/4)
	· ·						* *



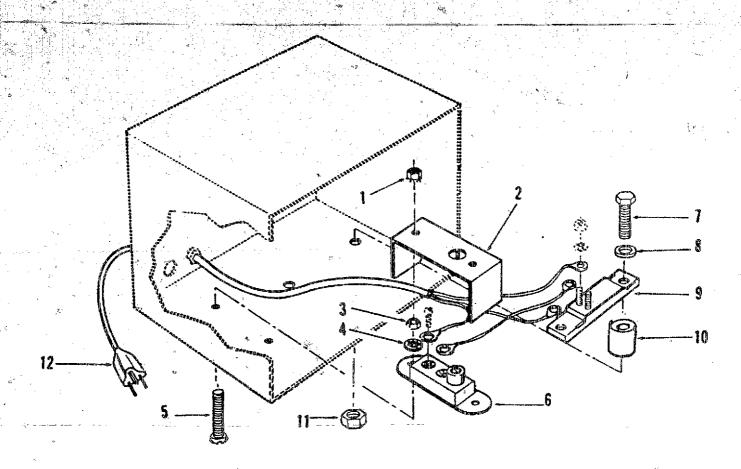
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ref	PART	OTY	PART	REF	PART	QTY	PART
No.	NO.	USED	DESCRIPTION	NO.	NO.	USEO	DESCRIPTION
1	821-0010	16 S	crew. Lock (1/4 - 20 x 1/2")	3	301-9669	2	Panel, Breaker - Circuit
2	301-9975		over. Breaker - Circuit	4	301-9668	1	Box, Breaker - Circuit



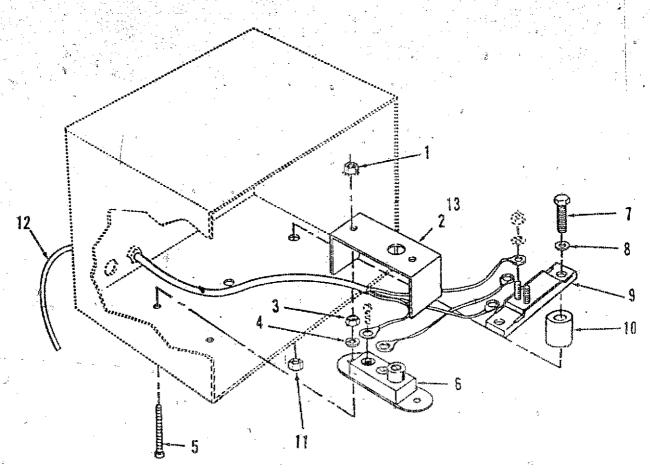
Control Heater (120 Volt)



REE NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION,
1	870-0183	2	Nut, Self-Locking - Hex ET (#6 - 32)	7	800-0034	2	* Screw, 'Cap Hex Head (5/16 - $18 \times 2^{-1/4}$ ')
. 2	301-1886	. 1	Cover, Thermostat	8	526-0113	2	Washer, Flat (11/32" ID x
. Э	860-0006	2	Nut, Hex (#6 ~ 32)		÷.		1" OD $ imes$ 3/32" THK)
- 4	854-0006	2	Washer, Lock - IT (#6)	. 9	333-0151	1	Heater, 240 Volt - 300 Watt
•5	812-0070	- 2	Screw, Machine - Round Head	10	130-1107	2	Spacer, Sleeve
			$(#6 - 32 \times 1 - 1/4)$	11	870-0257	2	Nut, Self-Locking (5/16 - 18)
6	309-0128	$_{\circ}1$	Thermostat, Adjustable	12	335-0161	1	Cable, Electrical



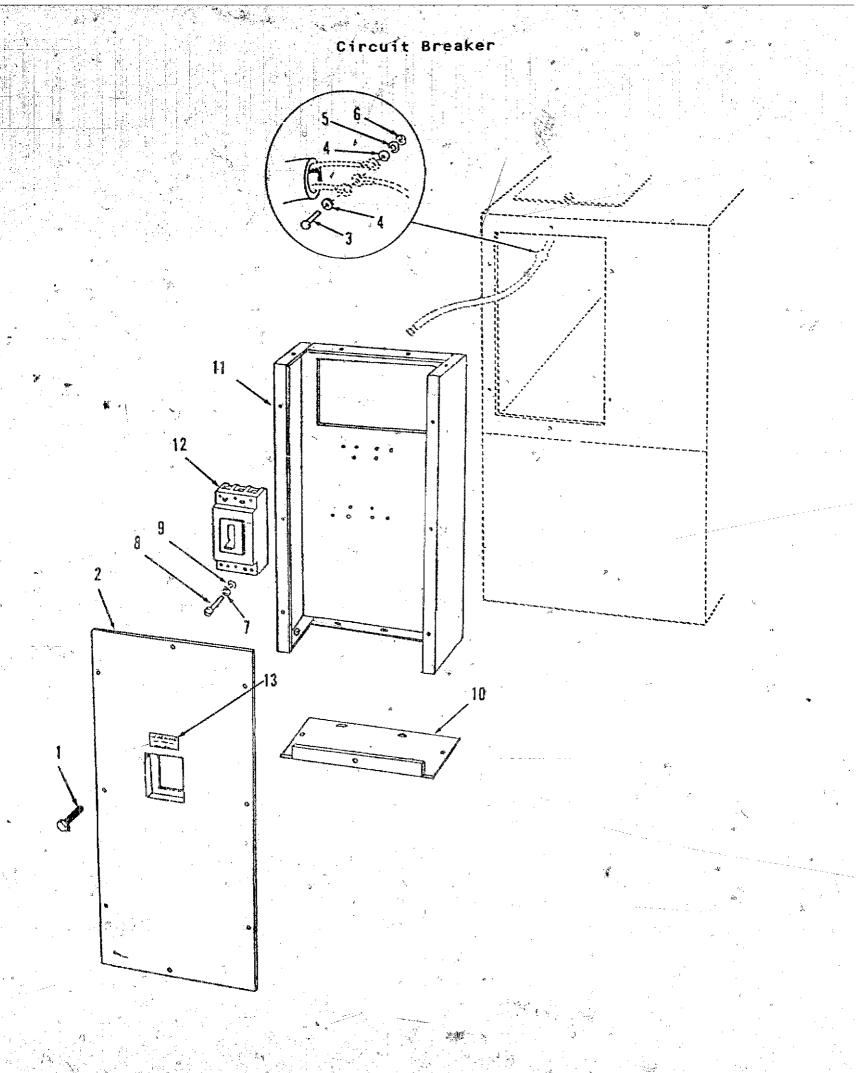
Control Heater (240 Volt)



SC1156

REF NO		QTY USED	PART DESCRIPTION	REF NO.	PART . *	QTY S USED	
· 1	870-0183	2 .	Nut. Lock - W/ET (#6 - 32)	8	526-0113	. 2	Washer - Flat (5/16)
2	301~1886	71	Gover, Thermostat	9	333-0378	1	Heaten, 240 Volt - 150 Watt
3	860-0006	2	Nut, Hex (#6 - 32)	10	130-1107	2	Spacer
4	854-0006	4	Washer, Lock - W/IT (#6)	1.2	870-0257	2	Nut, Self-Locking - Hex Head
5	812-0070	2	Screw, Machine - Round Header				(5/16 - 18)
			$(#6 - 32 \times 1 1/4")$. 12	338-2181	1	'Harness Assembly, Heater
6	309-0128	۰ 1	Thermostat, Adjustable				(Includes Rectifier Diode)
η	800-0034	. 5	Screw, Cap - Hex Head $(5/16 - 18 \times 2 1/4")$	13	98-3232	Ţ	Decal, Warning
	*						Agricultural design of the second sec



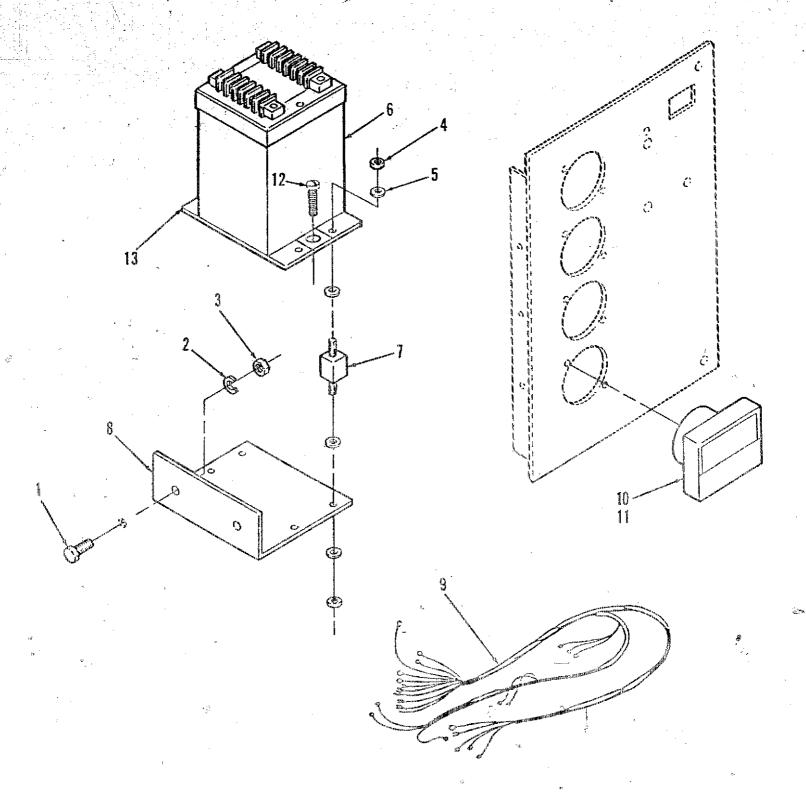




Circuit Breaker

REF NO.	PART NO.	QTY USED	PART DESCRIPTION		REF NO.	PART NO.	QTY USED	PART DESCRIPTION	
1	821-0010	21	Screw, Lock (1/4 - 20 x	1/22)				480 Valt	į a
2	. 021	4. A	Cover, Breaker - Circui			320-1458-19	1	30 Amp	-1
	301-9892	1	0.62" Circuit Breaker			320-1458-20	î	35 Amp	
	301-9682	1	1.50" Circuit Breaker	Depth		320-1458-21	i	40 Amp	Ċ
	319-0285	1	2.12" Circuit Breaker			320-1458-22	1	45 Amp	
3	800-0028	5	Screw, Cap - Hex Head (5/16 x		320-1458-23	1	50 Amp	
	E00 0000	,	18 × 1")	4		320-1458-24	1	60 Amp	
4 5	526-0022	5 5	Washer, Flat			320-1458-25	1	70 Amp	
6	850~0045. 862~0015	5 5	Washer, Lock Nut, Hex			320-1458-26 320-1458-27	1	80 Amp 90 Amp	
7	002 0013	J	Washer, Flat			320-1458-28	<u>.</u>	100 Amp	
	526-0048	4	#8	•		320-1458-29	1	110 Amp	
	525-0008	4	#10			320-1458-30	i	125 Amp	
	526-0108	Z)	1/4"			320-1458-31	ī	150 Amp	
8		-	Screw, Round-Head			320-1459-08	1	175 Amp	
٥	812-0094	4	#8 - 32 × 3-1/2"			320-1459-09	1	200 Amp.	
	813-0118-	4	#10 - 32 × 4-1/2"		~ 1	320-1459-10	3	225 Amp	
	812-0165	4	$1/4 - 20 \times 4^{-1}/2$ "			320-1460-06	1	250 Amp .	
_	812-0157	4	$1/4 - 20 \times 1-3/4$			320-1460-07	ì	300 Amp	
9	#F# 000F		Washer, Lock			320-1460-08	1	350 Amp	
	850-0025	4	#8			320-1460-09	1	400 Amp	
10	850-0040 301-9669	4 2	1/4 Panel, Breaker - Circui	•-		320-1460-10	1	450 Amp	
11	301-9668	1	Box, Breaker - Circuit	1		320-1460-11 320-1460-12	÷ .	500 Amp 500 Amp	
12	301 3000	.r.	Breaker, Circuit			DEG THOU IS	^	600 Volt	
			2 Pole			320-1458-34	•	20 Amp	
			240 Volt			320-1458-35	1	25 Amp "	
	320-1511-11	1	,4- 70 Amp			320-1458-36	1	30 Amp	
	320-1511-12	1	80 Amp			320-1458-37	1	35 Amp	
	320-1511-13	1	90 Amp			320-1458-38	1	40 Amp	
	320-1511-14	1	100 Amp			320-1458-39	1	45 Amp	
	320-1512-05	Ä	110 Amp			320-1458-40	1	,50 Amp	
	320-1555-01		125 Amp			320-1439-41	<u> </u>	60 Amp	
	320-1555-02 320-1555-03	1 1	2 150 Amp 175 Amp			320-1458-42 320-1458-43	1	70 Amp 80 Amp	
	320-1555-04	1	200 Amp			320-1458-44	1	90 Ama	
	320-1555-05	î	225 Amp			320-1458-45	1	100 Amp	
	320-1555-11	1	250 Amp			320-1458-46	1	i 10 Ampi	
	320-1555-12	1	300 Amp			320-1458-47	1.	125 Amp	
	320-1555-13	1	350 Amp			320-1458-48	1	150 Amp	
	320-1555-14	1	400 Amp			320-1459-08	1.	175 Amp	
	320-1513-10	1	450 Amp			320-1459-09)	200 Amp	
	320-1513-11	1	500 Amp			320-1459-10	1	225 Amp	
	320-1513-12	1	600 Amp 3 Pole	•		320+1460-06 320-1460-07	ä	300 Amp	
	•		240 Volt *			320-1460-08*	-	350 Amp	
	320-1458-09	1	50 Amp			320-1480-09	1	400 Amp	
	320-1458-10	1	60 Amp			320-1460-10	2	450 Amp	
	320-1458-11	ī	70 Amp	_W _{E3} 1		320-1460-11	1	500 Amp	
	320-1458-12	1	80 Amp	:- A		320-1460-12	1	600 Amp	
	320-1458-13	1	90 Amp	•	13	98-2304	1	Decal, Warning - Circuit	
	320-1458-14	1.	- 100 Amp	r 72				Breaker	
	320-1458-29	1	110 Amp			898~0869	1	Steeving, Insulation - 4	
•	320-1555-06	1	- 125 Amp			898-0867	1	Sleaving, Insulation - 4	4
	320-1555-07	1	150 Amp	•		898~0865	1	Sleeving, Insulation - 4	
	320-1555-08	1	175 Amp			898-0863	Ì	Sleeving, Insulation - 1	
	320-1555-09	1 1	200 Amp 225 Amp			•			
* * * =	320-1555-10 320-1555-15	1	250 Amp	31.41		•		•	
افتدار	*320-1555-16	1	300 Amp			•			
•	320-1555-17	1	350 Amp					•	
`	320-1555-18	ĩ	400 Amp						
	320-1460-10	ĩ	450 Amp	es .					
	320-1460-11	1	500 Amp	*					
	320-1460-12	1.	600 Amp		•				
						•			





REF NO.	PART NO	QTY USED	PART DESCRIPTION		EF O.	PART - NO.	QTY USED	PART DESCRIPTION
1 2	921-0017 850-0045	2	Screw, Lack (5/16-18 x 1/2") Washer, Lock (5/16-18)			338-1936 302-1722	1	Harness, Transducer - Watts Meter, DC (Wattmeter)
3	862-0014	2	Nut, Hex (5/16-18)	1	1	302-1721-06 813-0102		Dial, Wattmeter -Screw, Machine - Round Head
5	860-0008 856-0002	$rac{9}{16}$	Nut, HMS (8-32") -Washer, Lock - E/T (8)			.,	ε.	(#10-32 x 5/8")
6	302-1833-01	3	Transducer. Watt			319-0030	ì.	Plate, Transducer
7	402-0354	4 .	Mount, Shack	1	r 1	332-0942	3	Tie, Cable
B -	301-6987	1	Bracket, Transducer - Watts					

