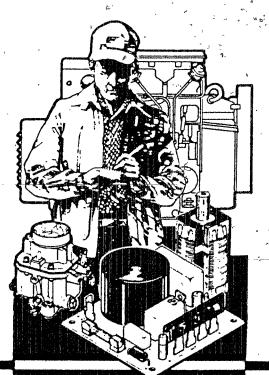
The following catalog has gaps in its page numbers, or doesn't have any numbers. We have chosen to leave the page numbering in the order that Acrobat assigns it.

Cren

Parts Manual

YB

Alternators
Single-Bearing

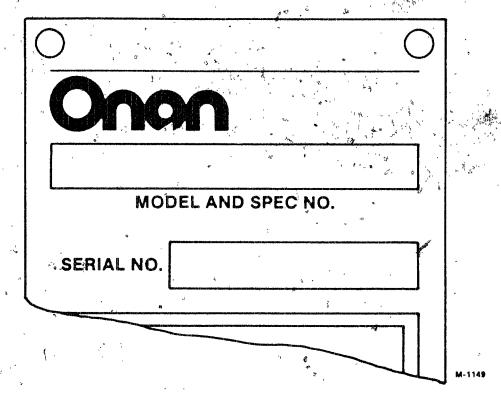


Onan Service Parts

General Information

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

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



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

ηI	n	d	e	×	,
		-3	- 1 "	S	

		GRID				GRID	
1	Bus Bar Assembly	A10		Screen		A6,A8	_
1	Fan and Disk Drive Assembly	A6,A8	The state of the s		0-Ring , Overspeed	A6,A8 A12	
	Heater, Electrical	B2		Stator	, Alternator Exciter	A6,A8 A6,A8	-
	Introduction	A 5		Suppre	ssor, Voltage ssor, Dual Voltage	A13 A14	
			S	Juppi 6	····	3	
	Rectifier, Diode - Negative	A1.1	· •		Data - Electrical	A5	
•	Rectifier, Diode - Positive	A11		Table,	Data - Unit	. A5	
	Rotor Assembly - Alternator	A6,A8 A6,A8,A11					
	Rotor Assembly, Exciter	MO, MO, M I I	,	wheel,	Overspeed	A12	

Introduction

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

These typical illustrations are subject to change and reflect only the latest replacement parts arrangement. The Right and Left sides of the Unit are determined by FACING the FRONT or input end of the Unit. (Ref. Fan and Drive Disc).

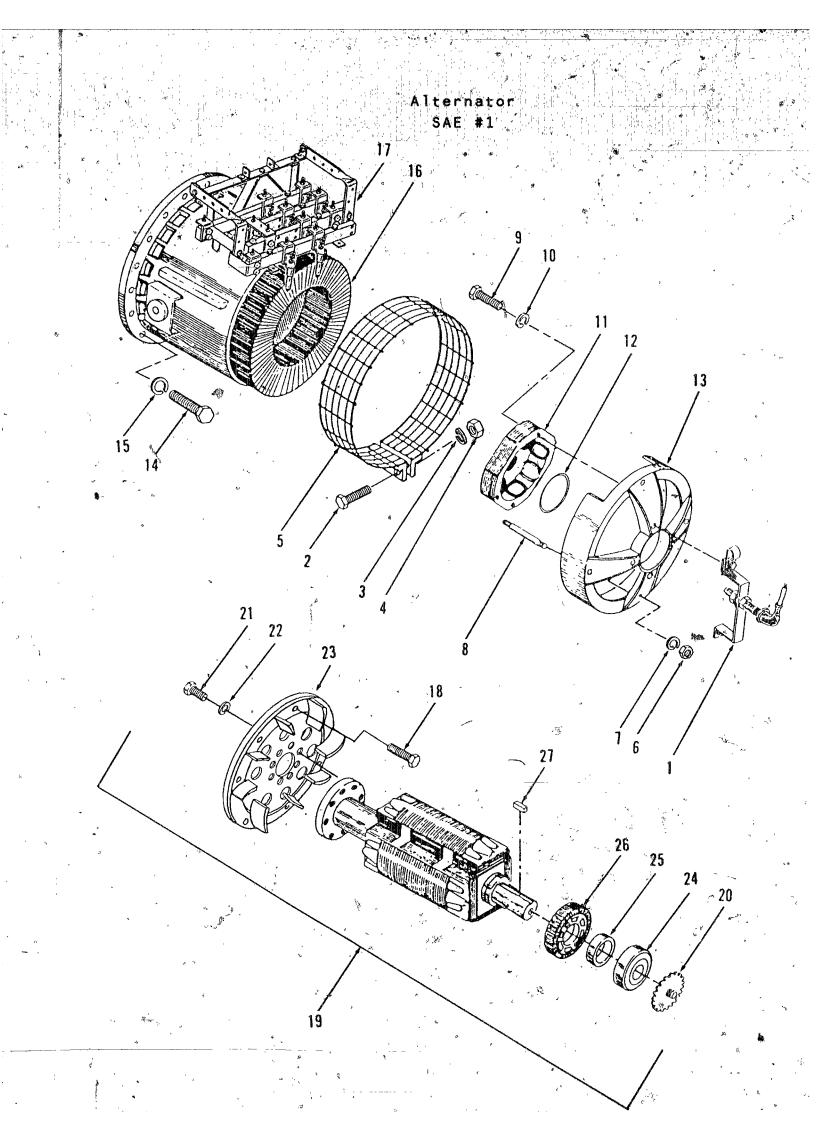
Unit Data Table

MODEL IDENTIFICATION	RATING	MODEL IDENTIFICATION	. RATINĠ .
165.0 YB - */ # @ 250.0 YB - */ # @ 350.0 YB - */ # @	165,000 WATTS 250,000 WATTS 300,000 WATTS	200.0 YB - */ # @ 300.0 YB - */ # @	200,000 WATTS 300,000 WATTS

Electrical Data Table

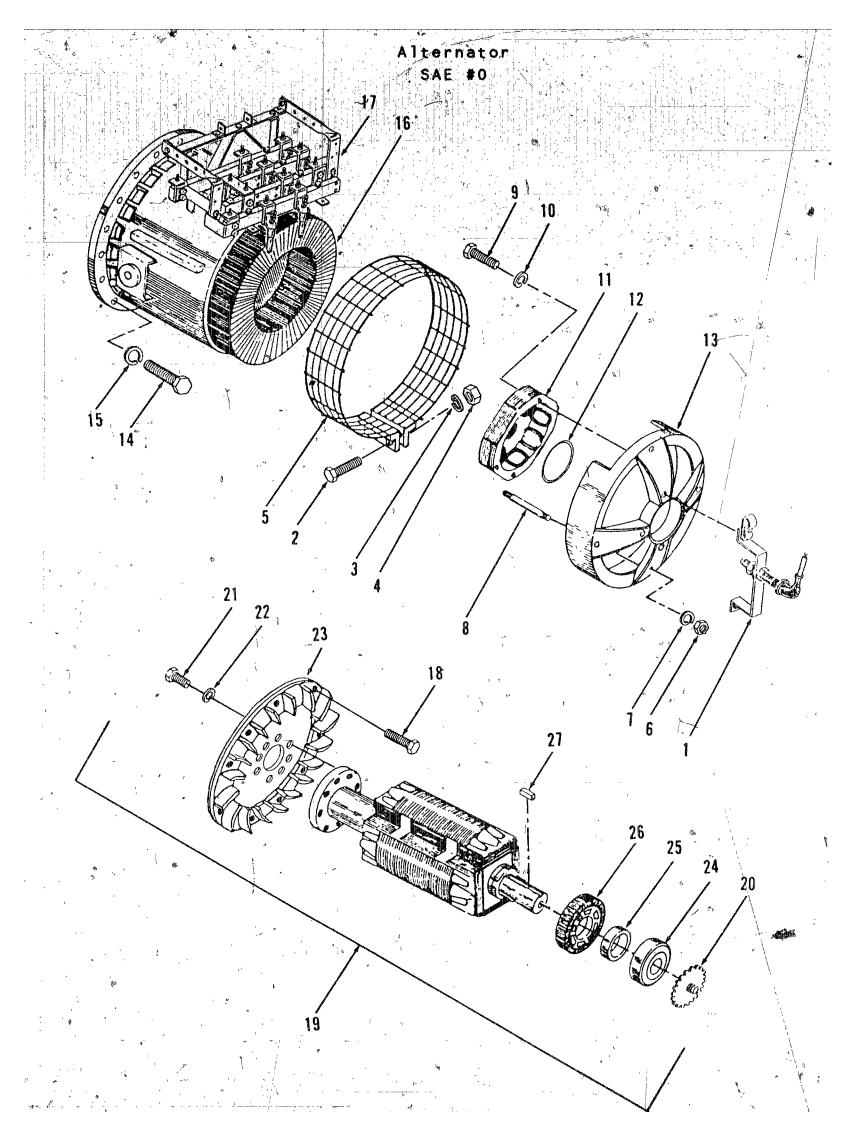
*VOLTAGE CODE	VOLTS .	HERTZ	WIRE	PHASE	NOTES
• 5D	120/240 '	60	. 4	3	• ,
9 X	347/600	60	. 4	` 3	
<u> </u>	120/208 127/220 139/240 240/416 254/440 277/480	60 60 60 60 60	12· 12 12 12 12 12 12	3 3 3 3 3	+
517	110/190 115/200 120/208 127/220 220/380 230/400 240/416 254/440	50 50 50 50 50 50 50	12 12 12 12 12 12 12 12 12	* 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	+ 7

- ' Voltage Codes follow Model Letter designations.
- # Specification Number: Number 1 is Standard, all other indicate varations.
- @ Specification Letter: Letter advances (A to B, B to C, etc) with
- major manufacturing changes.
- + The Stators are Reconnectible.



Alternator SAE#1

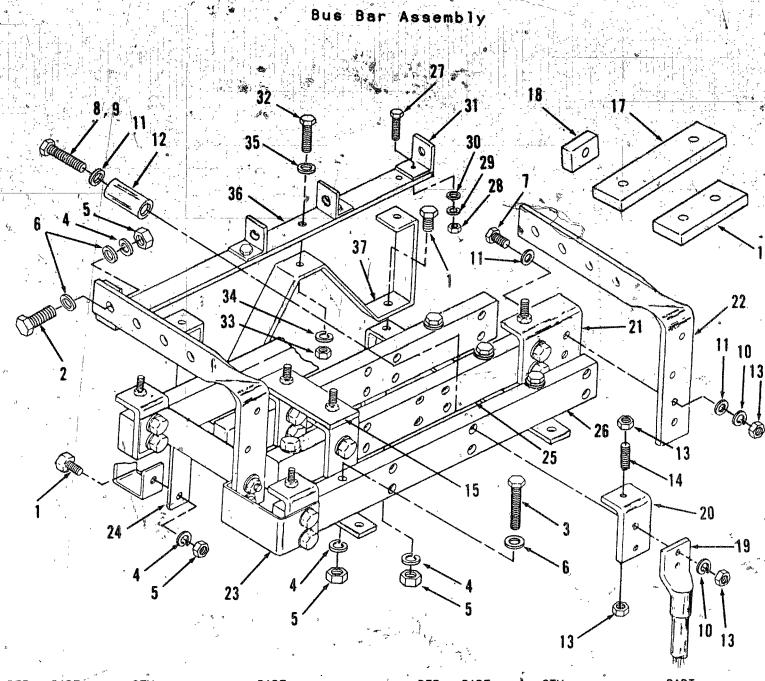
REF NO.	PART QTY	DESCRIPTION	REF PART NO. NO.	QTY USED	PART DESCRIPTION
1	1	Sensor Assembly, Overspeed (See Separate Page for Components)	17	1	Bus Bar Assembly (See Separate Page for Components)
2	114-0023 2	Screw, Cap - Hex Head (1/4+20 x 1-1/4")	18 805-0032	8	Bolt, Cap - Hex Head (1/2-13 x 1-1/4")
3 4	850-0040 2 862-0001 2	Washer, Lock - Spring (1/4") Nut, Hex (1/4-20)	19		Rotor Assembly (Includes Fana.) Disk Assembly, Bearing,
5.(6	234-0455 1 ° 862-0016 4	Screen, Air Nut, Hex (1/2-13)			Exciter Rotor, and Speed Sensor Wheel)
. 7 8	850-0060 4 520-0780 4	Washer, Lock - Spring (1/2") Stud (1/2-13 x 6-1/2"LG) →	201-1940 201-1940	1 1	165 kW, C∰de 517 200 kW, Code 9X, 17
9	800-0009 4	Screw, Cap - Hex Head - (1/4-20 x 1-1/2")	201-1942 201-1942	1. 1	200 kW, Code 517 250 kW, Code 9X, 17
10 11	850-0040 4	Washer, Lock - Spring (1/4") Stator, Exciter	20		Overspeed Sensor Wheel Assembly (See Separate Page
12	220-1920 1 220-2607 1 509-0151 1	Standard Environmental Protected Seal, O-Ring	21 805-0035	8″ '	For Components) Bolt, Cap - Hex Head (5/8-11 x 1-1/2")
13	211-0214 1 800-0063 12	End Bell Screw, Cap - Hex Head	22 526-0259	* 8* 1	Washer, Flat - Hardened Fan and Disk Assembly
15	850-0065 12	$(7/16-14 \times 1-1/2")$ Washer, Lock - Spring $(7/16")$	24 510-0106	1,	(Matched Pair) Bearing
16		Stator (Includes Bus Bar Assembly)	25 232-2317 a 26	ī .	Spacer, Sleeve Rotor Assembly, Exciter
*	220-2135 1 220-2317 1	165 kW, Code 517 200 kW, Code 9X	, , , , ,	л.	(See Separate Page for Components)
- 794	220-1912 1 220-2137 1	200 kW, Code 17 200 kW, Code 517	201-1902 201-2453	1	Standard Enviromental Protected.
ч	220-2319 1 220-1914 1	250 kW, Code 9X 250 kW, Code 17	27 515-0145	, 1	Key, Rectangular



Alternator

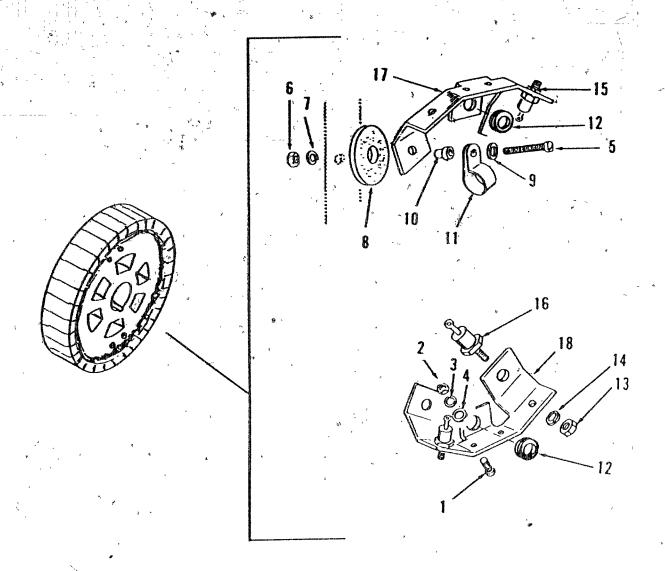
SAE #0

REF NO.		QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1		·	Senson Assembly, Overspeed	17		1	Bus Bar Assembly (See
3			(See Separate Page for	-		, _ y* -	Separate Page for
	1 = 1		Components)		_	, ,	Components)
2	114-0023	2	Screw, Cap - Hex Head	⊝ - 18	805-0035	6	Bolt, Cap - Hex Head
			$(1/4-20 \times 1-1/4")$	7.3			$(5/8-11 \times 1-1/2")$
3	850-0040	2	Washer Lock - Spring (1/4")	∠∴" 19		,	Rotor Assembly (Includes Fan
. 4	862-0001	2	Nut, Hex (1/4-20)				Disk Assembly, Bearing,
, ₺ 5	234-0455	_a 1 .	Screen, Air			•	Exciter Rotor, and Speed
. 6	862-0016	. 4	Nut, Hex (1/2-13)	•		ø	Sensor Wheel)
7	850-0060	4	Washer, Lock - Spring (1/2")		201-1949	1	250 kW, Code 517
8	520-0780	4	Stud $(1/2-13 \times 6-1/2"LG)$		201-1948	, 1	250 kW Code, 17
9	800-0009	4 *-	Screw, Cap - Hex Head		201-3030	1	300 kW, Code 5D 🐪
- "	•	2"	$(1/4-20 \times 1-1/2")$	v. •	201-1950	1	300 kW, Code 517
- 10	850-0040	4	Washer, Lock - Spring (1/4")	•	201-1950	, 1	350 kW, Code 9X, 17
11	1 -		Stator, Exciter	20		~	Overspeed Sensor Wheel
	220-1920	a 1	Standard	,			Assembly (See Separate
	220-2607	· · · 1;	Enviromental Protected		Bei		Page for Components)
12	509-0151	1筹	Seal, O-Ring	21	805-0035	8	Bolt, Cap - Hex Head
13	211-0214	1	End Bell			` y	$(5/8-11 \times 1-1/2")$
14	800-0092	16	Screw, Cap - Hex Head	22	526-0259	. 8	Washer, Flat - Hardened
			$(1/2-13 \times 1-1/2")$	23	232-2899	. 1	Fan and Disk Assembly
15	850-0060	16	Washer, Lock - Spring (1/2")		-		(Matched Pair)
16		-)	Stator (Includes Bus Bar	24	510-0106	. 1	Bearing
		30	Assembly)	25	232-2317	• 1	Spacer, Sleeve
	220-1915	1	250 kW, Code 17	26			Rotor Assembly, Exciter
Þ	220-2139	, 1	250 kW, Code 517				,(See Separate⊸Page for
	.220-2345	` 1	300 kW, Code 5D ,				Components)
*	220-2140	1	300 kW, Code 517		201-1902	1.	Standard
Ž	220-2322	1	350 kW, Code 9X		201-2453	1	Enviromental Protected
	220-1917	. 1	. 350 kW, Code 17	27	515-0145	1	Key, Rectangular

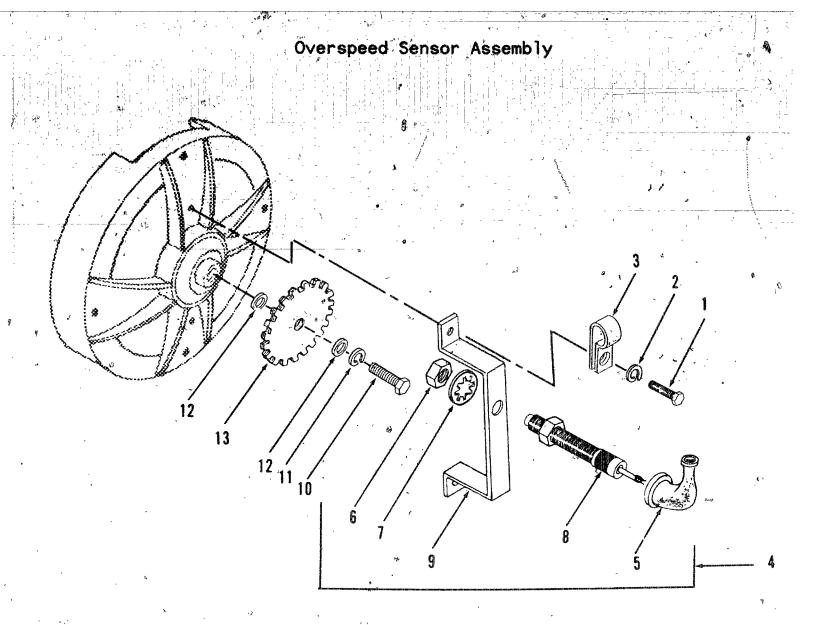


REF NO.			QTY USED	PART DESCRIPTION	REF.	PART NO.	QTY USED	PART DESCRIPTION
	,	<u>;</u>		, p •		000 0500	1	C.,
1	800-0050		4	Screw, Cap Hex Head $(3/8-16 \times 1")$	18 19	232-2583 332-1152		Spacer, Bus Bar Terminal, Lug
2 ·	800-0051		4	Screw, Cap - Hex Head	20	232-2241	11	Bar, Bus
_	-		-	$(3/8-16 \times 1-1/4")$	21	232-2343	° 3	Bar, Bus
3	8 5 0-0056		8	Screw, Cap - Hex Head	22~		4	Bar, Bus
				$(3/8-16 \times 2-1/2")$	23	232-2238	1	Bar, Bus
4	850-0050		16	Washer, Lock - Spring (3/8")	24	1232-2249	2	Bracket, Mounting - Bus 8
5	862+0003	, ,	16	Nut, Hex (3/8-16)	25	232-2242	2	Board, Insulator - Center
6	526-0029		16	Washer, Flat (25/64"ID x	26	232-2243	2	Board, Insulator - Front/
				$7/8$ "OD \times $1/16$ "THK).	27	800-0007	4	Screw, Cap - Hèx Head
7	800-0028		4	Screw, Cap - Hex Head			•	$(1/4-20 \times 1")$
	1			$(5/16-18 \times 1")$		862-0001	4	Nut, Hex (1/4-20)
8 ,	114-0022		24	Screw, Cap - Hex Head		-850-0040 ∗	, 4	Washer, Lock - Spring (1/
	4		2 1	$(5/16-18 \times 1-3/4")$	30	526-0018	, 4	Washer, Flat (21/64"ID x
9	800-0033		8	Screw, Cap - Hex Head		*	4	$3/4"00 \times 1/16"THK)$
	:	•		(5/16-18 × 2")	31	232-2387	4	Bracket, Angle
10	850-0045		36	Washer, Lock - Spring (5/16")	32	800-0051	3	Screw, Cap - Hex Head
11	526 ¹ -0115		48	Washer, Flat (11/32"ID' x			^	$(3/8-16 \times 1-1/4")$
			_ '	11/16"OD × 1/16"THK)	33	862-0003	3	Nut, Hex (3/8-16)
12	232-2344		32	Spacer, Sleeve	34	850-0050	3	Washer, Lock - Spring (3/
13	862-0015			Nut, Hex (5/16-18)	35	526-0029	. 1	Washer, Flat (25/64"ID x
14	520-0142			Stud $(5/16-18 \times 1-1/4"LG)$	20	220 0045	4	7/8"OD x 1/16"THK)
15	232-2246	7	2	Bar, Reconnection - Long		232-2245	. 1	Board, Insulator
16	232-2248		2 (Bar, reconnection - Short	37	232-2237	J. "	Bracket, Support
17	232-2582		-1	Jumper, Bus Bår	1			* * *

Exciter Rotor Assembly



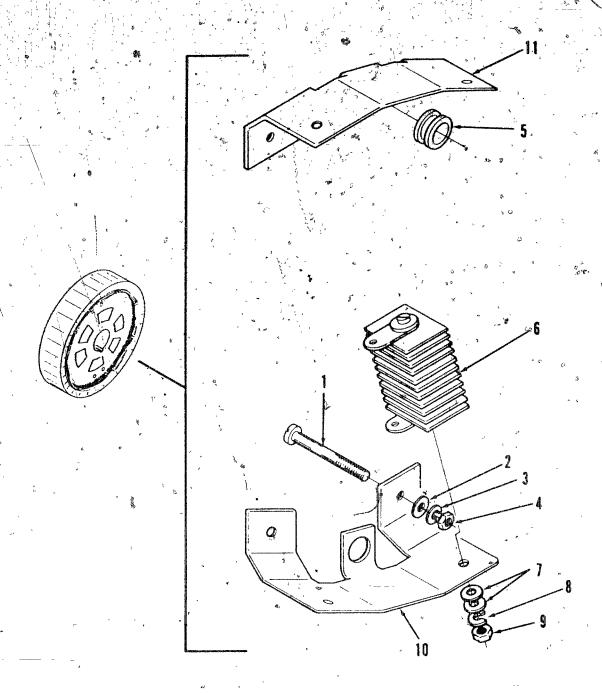
REF		QTY USED	PART DESCRIPTION 3	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
110.	110.	OULU	DESCRIPTION .	110.	110.	0000	DECONTI 12011
1	813-0100	2	Screw, Machine - Round Head	10	508-0187	4	Spacer, Stepped
	' '		(#10-32 x 1/2")	11	332-0050	2	Clamp, Loop
2	870-0053	2	Nut, Hex (#10-32)	12	508-0093	2	Grommet, Rubber
3	850-0030	2	Washer, Lock - Spring (#10)	13	868-0001	6	Nut, Hex (1/4-28)
4	526-0008	2	Washer, Flat (13/64"ID x	14	850-0040	[,] 6	Washer, Lock - Spring (1/4")
	v		7/16"OD x 1/32"THK)	. 15	358-0011	3	Rectifier, Diode - Positive
5	813-0110	4	Screw, Machine - Round Head		,	\$'	(CR1, CR2, CR3)
, -			(#10-32 × 2")	16	358-0012	3	Rectifier, Diode - Negative
6	870-0053	4	Nut, Hex (#10-32)				(CR4, CR5, CR6)
7	850-0030	4	Washer, Lock - Spring (#10)	17	363-0049		'Heatsink - Positive Diodes
8	508-0156	4	Washer, Insulating	18	363-0050	ī	Heatsink - Negative Diodes
9	526-0009	4	Washer, Flat (7/32"ID x		,		
·		·	1/2"00 x 1/16"THK)		*		The second secon



Ą.	REF NÖ.	PART. NO.	QTY USED	PART DESCRIPTION	REF NO.	° PART NO.	QTY USED	DESCRIPTION
	1	800-0005	. 2	Screw, Cap - Hex Head	6	868-0011	2 .	Nut, Hex (3/4-16 UNF)
	•	***************************************		$(1/4-20 \times 1-1/2")$	7	854-0031	7	Washer, Lock - II (3/4")
y	2	850-0040	2	Washer, Lock Spring (1/4")	8	15 0-1406	1	Pickup, Magnetic (Sensor)
	*3		1	Clamp, Loop	9	150-1407	1	Bracket, Mounting
;	-	150-1411	ī	Sensor Assembly, Overspeed (Includes Cap, Sensor and	10	800-0092	1	*Screw, Cap - Hex Head (1/2-13 x 1-1/2")
			1	Mounting Bracket)	11	850-0060	1	*Washer, Lock - Spring (1/2
	5	150-1410	1	Cap Insulating	12	526-0252	2	*Washer, Flat (1/2")
	J	100 1410	•		13	150-1405	1	*Wheel, Sensor - Overspeed

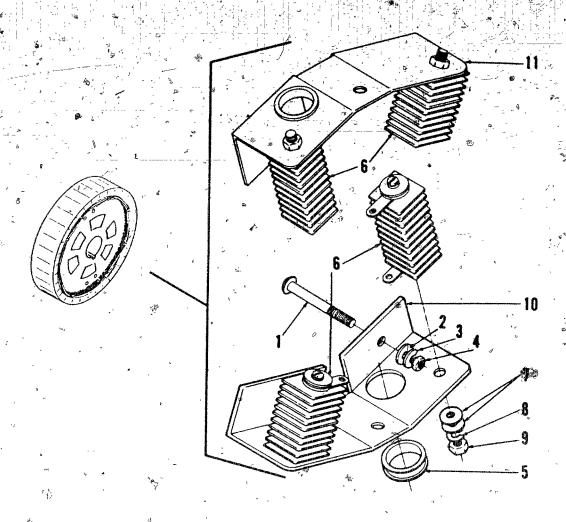
^{* -} Parts included with Alternator Rotor Assembly.

Voltage Suppressor Assembly

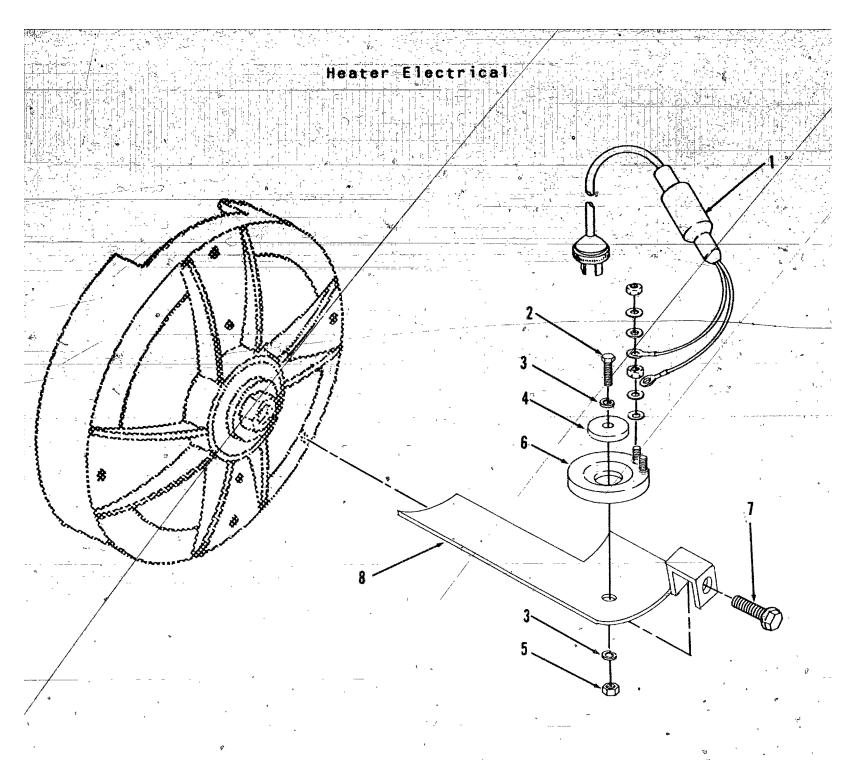


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	DESCRIPTION
*6	232-2444	1	Suppressor Assembly, Voltage	6	305-0526	1	Suppressor Set Voltage
1	813-0112	4	Screw. Machine - Round Head				(Consists of Two Matched
			$(#10-32 \times 2-1/2")$		*		Suppressors)
- 2	526-0140·	4	Washer, Flat (7/32"ID x	7 -	526-0140	4	Washer, Flat (7/32"ÎD 🔻 🦖 👚
~~~			3/8"OD x 3/64"THK)		,		$3/8"00 \times 3/64"THK)$
3	859-0030	4'-	Washer, Lock - Spring (#10)	8	850-0030	4 '	Washer, Lock - Spring (#10)
4	870-0053	.4.	Nut, Hex (#10-32)	.s 9	870-0053	4	Nut, Hex (#10-32) .
5	508-0093	-2	Grommet, Rubber .	10	363-0054	1 `	Heatsink - Positive Diodes
* ~	Heq.			11	363-0055	1	Heatsink - Negative Dioces
		21 *	-	*	*		• •

## Dual Voltage Suppressor Assembly



REF NO.	PÅRT NO	OTY USEC	PART DESCRIPTION	REF NO	PART NO.	QTY USED	PART DESCRIPTION
۲,	°232~2639	· A 1 °	Süppressor Assembly, Dual Voltage	6	305-0526	. 2	Suppressor Set, Dua' Voltage (Consists of Four Matched
1	813-0112	8.	Screw, Machine - Round Head $(#10 \pm 32 \times 2 \pm 1/2)$	• 9	526-0140	8	Suppressors) Washer, Flat (7/32**10 / 3/8**00 × 3/64************************************
έ, •	526-0140	8	Washer, Flat (7/32"ID x 3/8"OD x 3/64"THK)	-	850-0030 870-0053 •	8 8	Washer, Lock - Spring (#10] Nut, He%-{#10-32)
.4 5	850-0030 870-0053 508-0093	8	Wåsher, Lock – Spring (#10) Nut, Hex (#10-32) Grommet, Rubber	10	363-0025 363-0033	* 1 " 1	Heatsink - Positive Diodes Heatsink - Negative Diodes
9	500 500G	-,					



1	RÉF NO.	PART NO.	QTY PART USED DESCRIPTION	REF NO.	PART NO.	QTY USED	PART
	110.	1101	DESCRIPTION /	, 140.	110.	,	
	71	•	Cable, Electrical (Includes	6	* .	٠,	Heaten, Electrical
			Thermostat)		333-0059	. 1	125 W 120 VAC
		335-0146	1 120 VAC		333-0192	1	200 W 240 VAC
•	٠.	335-0147	1 240 VAC	7	821-0014	1	Screw Self-locking Hex Washe
	2	800-0004	1 Screw, Cap - Hex Head				Heatt 45/16-18 x 1/2")
	_	7	$(1/4-20 \times 5/8")$	8			Bracker, Mounting
	3	850-0038	2 Washer, Lock - Spring (1/4")	-	232-2446	J 1	Used with 120 VAC Heater
لدو	<b>A</b> ***	526-0158	1 / Washer, Flat (17/64"ID x	,	232-2832	1	Used With 240 VAC Heater
	•	7.7	1"0D x 1/8"THK)				
	5	862-0001	1/ Nut, Hex (1/4-20)		.'	7	
	٠,	1	1/ 110/ (1/4/20)		1 4.	, g	
	CHECK TO	,			150	dise	
				*		11 6	(A) 1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、