

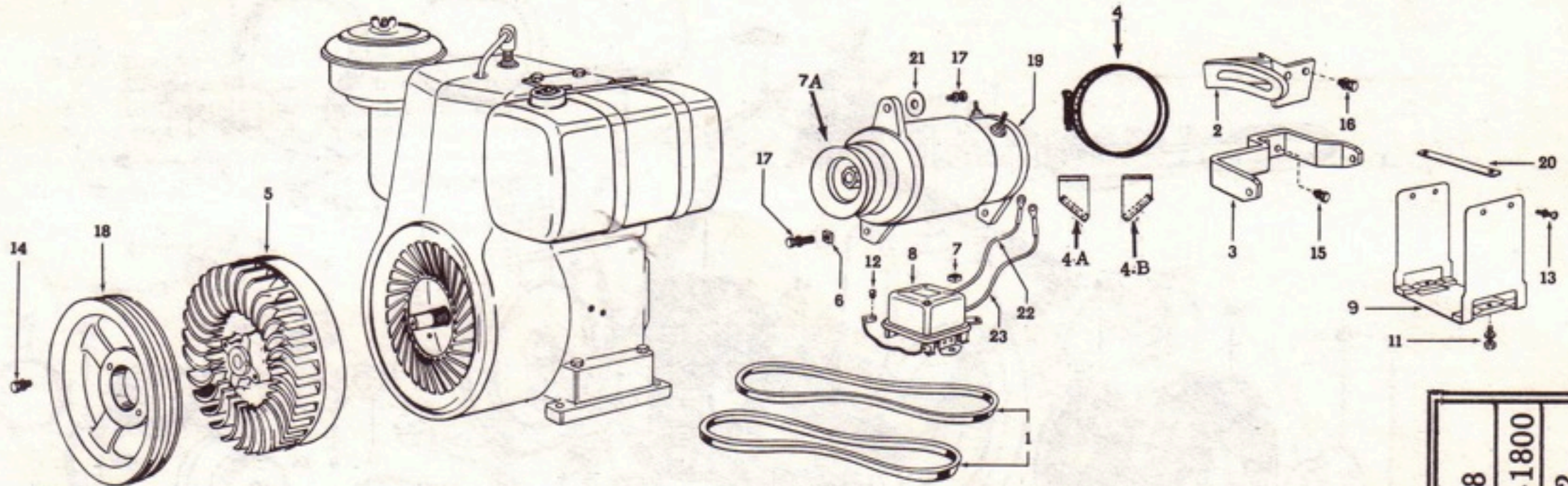


CLINTON ENGINES

SEC. III, DIVISION N
STARTER GENERATOR
ISSUED JULY, 1964
REVISED JUNE, 1966

STARTER GENERATOR

1600-A1600-1800-A2500-B2500 -2790 -- 414-418-420-422



SEE PAGE 11 FOR WIRING DIAGRAM

MODEL 414 & 418
STARTER GENERATOR KIT
PART NO. 264-69
FLYWHEEL NOT INCLUDED

MODEL 420 & 422
STARTER GENERATOR KIT
PART NO. 264-68
FLYWHEEL NOT INCLUDED

NOTE: The Shorting Switch, Starting Switch, Ammeter, Magnetic Switch and Battery as illustrated for wiring reference are not supplied by Clinton Engines Corporation. These accessory items are available at your local Automotive Parts Distributor.

NOTE: on 1600 Series use same parts list as A1600 or 1800 except use 83-29-500 Flywheel in place of 83-31-500.

On 2500 and on A2500 Series use same parts list as B2500 except use 83-35-500 Flywheel in place of 83-37-500.

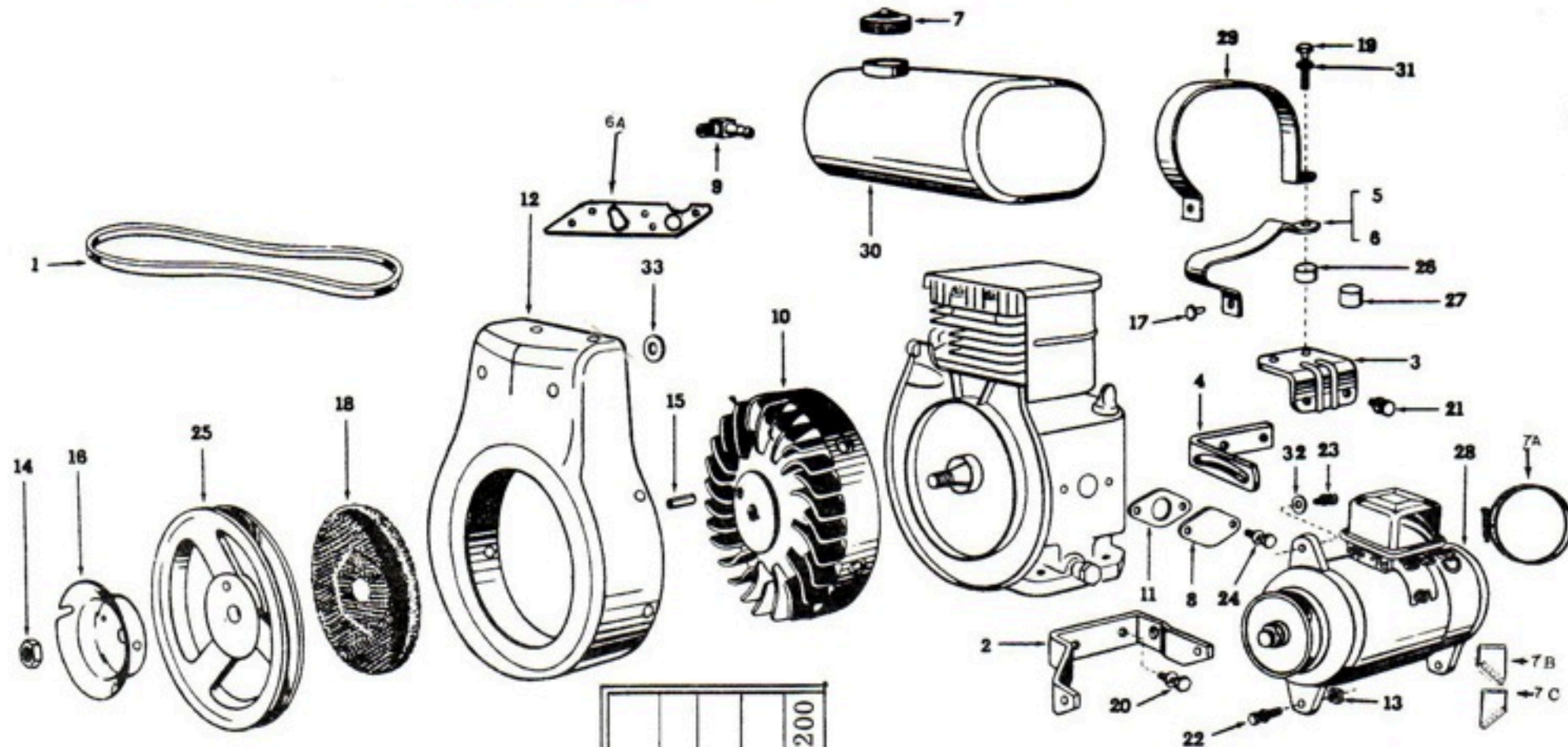
Ref. No.	Part No.	Description	414-418	A1600-1800	420-422	B2500-2790
1	21-3	BELT (Vee)	1	1	2	2
2	26-115	BRACKET-Str. Gen. Adj.	1	1	1	1
3	26-669	BRACKET-Str. Gen. Mtg.	1		1	
	26-118	BRACKET-Str. Gen. Mtg.		1		1
4	81-176-990	CLAMP-Auto	2		2	
4 A	81-174	CLIP-Regulator Mtg.	1		1	
4 B	81-175	CLIP-Regulator Mtg.	1		1	
5	83-37-500	FLYWHEEL ASSEMBLY			1	1
	83-31-500	FLYWHEEL ASSEMBLY	1	1		
6	183-56	NUT-Mtg. & Adj.	2	2	2	2
7	183-1-500	NUT-Regulating Mtg.	2	2	2	2
7 A	219-83	PULLEY-Str. Gen. Dble. (When using double Pulley also use 304-620 Spacer)			1	
	219-82	PULLEY-Str. Gen. Single	1			
8	231-7	REGULATOR	1		1	
	231-6	REGULATOR		1		1
9	26-125-500	BRACKET-Reg. Mtg.		1		1
11	258-284-500	SCREW & L'WASHER		2		2
12	258-359-500	SCREW & L'WASHER	1	1	1	1
13	258-198-500	SCREW & L'WASHER		4		4
14	258-226-500	SCREW & L'WASHER	4	4	4	4
15	258-227-500	SCREW & L'WASHER	2	2	2	2
16	258-281-500	SCREW & L'WASHER	2	2	2	2
17	258-259-500	SCREW & L'WASHER	3	3	3	3
18	219-43	SHEAVE-Double (Flywh.)			1	1
	219-41	SHEAVE-Single (Flywheel)	1	1		
18 A	304-620	SPACER-Double Pulley (Used with 219-83 Pulley)			1	
19	264-61	STARTER-Generator 4F1	1		1	
	265-37-500	STARTER-Generator				1
	265-36-500	STARTER-Generator		1		
20	26-169	STRAP-Shock Mount		1		1
21	304-100	WASHER-Gen. to Adj. Brkt.	1	1	1	1
22	307-94-500	WIRE ASS'Y-Field	1	1	1	1
23	307-93-500	WIRE ASS'Y-Armature	1	1	1	1



CLINTON ENGINES

SEC. III, DIVISION N
STARTER GENERATOR
ISSUED JULY, 1964
REVISED JUNE, 1966

STARTER GENERATOR 900-1200-A1200 -B1290 -- 494-498



Ref. No.	Part No.	Description	494	900	498	B1290	1200 & A1200
1	21-1	BELT (Vee)	1	1	1	1	1
2	26-117	BRACKET-Str. Gen. Mtg.	1	1	1	1	1
3	26-116	BRACKET-Str. Gen. Mtg.	1	1	1	1	1
4	26-114	BRACKET-Str. Gen. Adj.	1	1	1	1	1
5	26-62-500	BRACKET-Fl. Tk. Support	1	1	1	1	1
6	26-63-500	BRACKET-Fl. Tk. Support	1	1	1	1	1
6A	26-140	BRACKET-Blw. Hsg.	1	1			
7	45-95-500	CAP & GASK. - Fl. Tank	1	1	1	1	1
7A	81-176-500	CLAMP-Auto Reg. Mtg.	2		2		
7B	81-175	CLIP-Regulator Mtg.	1		1		
7C	81-174	CLIP-Regulator Mtg.	1		1		
8	45-39	COVER-Fl. Pump Pad	1	1	1	1	1
9	69-24	ELBOW-Hose Connecting	1	1	1	1	1
10	83-14-500	FLYWHEEL ASS'Y	1	1	1	1	1
11	94-6	GASKET-Fl. Pump Pad	1	1	1	1	1
12	259-105	HOUSING-Blower	1	1	1	1	1
13	183-24	NUT-Gen. to Mtg. Brkt.	2	2	2	2	2
14	183-32	NUT-1/2-20 Flywh. (Jam)	1		1	1	
	183-23	NUT-7/16-20 Flywh. (Jam)		1			1
15	203-21	PIN-Drive (To Flywheel)	1	1	1	1	1
16	219-15	PULLEY-Starting	1	1	1	1	1
16A	219-82	PULLEY-Generator	1		1		
16B	231-7	REGULATOR-Voltage	1		1		
17	244-19	RIVET-Tubular	2	2	2	2	2
18	257-18	SCREEN-Rotating	1	1	1	1	1
19	258-454-500	SCREW-Tk. Brkt. to Head	2	2	2	2	2
20	258-220-500	SCREW & L'WASHER	2	2	2	2	2
21	258-224-500	SCREW & L'WASHER	2	2	2	2	2
22	258-259-500	SCREW & L'WASHER	2	2	2	2	2
23	258-227-500	SCREW & L'WASHER	1	1	1	1	1
24	258-280-500	SCREW & L'WASHER	2	2	2	2	2
25	219-42	SHEAVE-Single (Flywheel)	1	1	1	1	1
26	304-73	SPACER-Fl. Tk. Brkt.	1	1	1	1	1
27	304-46	SPACER-Fl. Tk. Brkt.	1	1	1	1	1
28	264-66	STARTER-Generator 4E29	1		1		
	*264-21	STARTER-Generator		1		1	1
29	26-151	STRAP-Fuel Tank	2	2	2	2	2
30	277-382-500	TANK ASS'Y-Fuel	1	1	1	1	1
31	304-13	WASHER-Lock	2	2	2	2	2
32	304-100	WASHER-Gen. to Adj. Brkt.	1	1	1	1	1
33	304-88	WASHER-Blw. Hsg. Straps	2	2	2	2	2

SEE PAGE 11 FOR WIRING DIAGRAM

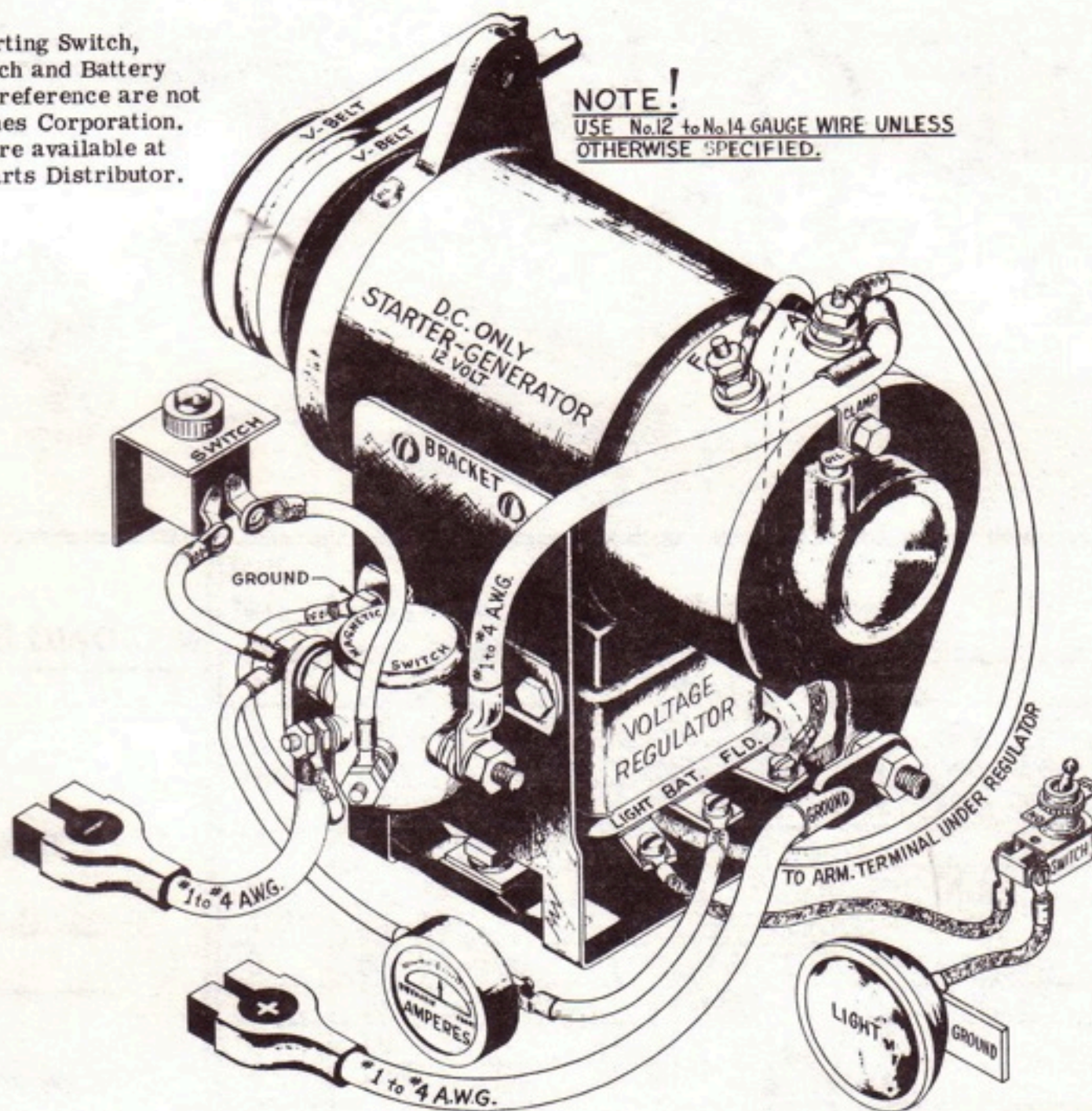
NOTE: The Shorting Switch, Starting Switch, Ammeter, Magnetic Switch and Battery as illustrated for wiring reference are not supplied by Clinton Engines Corporation. These accessory items are available at your local Automotive Parts Distributor.

* Regulator Part of 264-21 Starter Generator



STARTER GENERATOR WIRING DIAGRAM

NOTE: The Shorting Switch, Starting Switch, Ammeter, Magnetic Switch and Battery as illustrated for wiring reference are not supplied by Clinton Engines Corporation. These accessory items are available at your local Automotive Parts Distributor.



NOTE!
USE No.12 to No.14 GAUGE WIRE UNLESS OTHERWISE SPECIFIED.

**STARTER GENERATOR
INSTALLATION INSTRUCTIONS**

MODEL 1600-A1600-1800-A2500-B2500-2790--414-418-420-422 ENGINES

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|---|--|
| 1. Remove Tank Assembly from engine. | 12. Install Vee Belts Ref. No. 1. |
| 2. Remove Starter Rope Cup from engine. | 13. Install Washer Ref. No. 21, between Adjusting Bracket and Screw Ref. No. 17. |
| 3. Remove Blower Housing from engine. | 14. Tighten Belts by applying 30 lbs. pull at Upper Generator Arm. Tighten Screw Ref. No. 17 to Fix Generator in position. |
| 4. Remove Flywheel from engine. | 15. Mount Clips Ref. No. 4A and 4B to Regulator. |
| 5. Install new Flywheel Ref. No. 5, and (Torque Flywheel Nut to 100 to 120 Foot Pounds). | 16. Mount Regulator to the Generator using Clamps Ref. No. 4. |
| 6. Install Blower Housing. | 17. Install Field Wire Assembly Ref. No. 22 and Armature Wire Assembly Ref. No. 23 to Generator. |
| 7. Install Sheave Ref. No. 8, and Starter Rope Cup. (Use Ref. No. 14 Screws to attach Cup to Flywheel). | 18. Polarity of Regulator Ground must correspond to Battery Ground. |
| 8. Install Bracket Ref. No. 3, using Screw Ref. No. 15. | NOTE: Polarity identification stamped on Regulator Mounting Bracket. (N) Negative, (P) Positive. |
| 9. Install Bracket Starter Adjusting Ref. No. 2, with Screw Ref. No. 16. | |
| 10. Install Starter Assembly Ref. No. 19 to Bracket using Screws Ref. No. 17, and Nuts Ref. No. 6. | |
| 11. Install Pulley Ref. No. 7A on Starter Generator, and Torque Pulley Nut to 350 Inch Pound. | |