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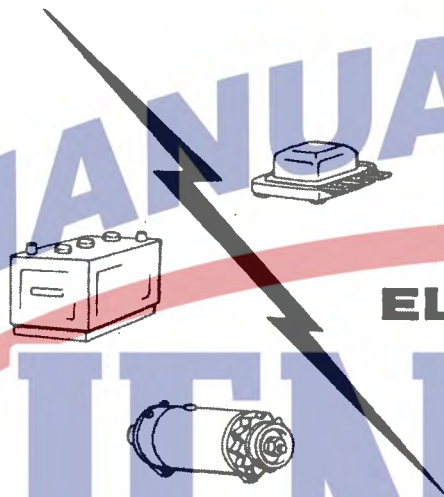
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**SERVICE MANUAL
FOR JOHN DEERE DEALERS**

**JOHN DEERE
ELECTRICAL SYSTEMS**

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Group 10

TESTING AND SERVICING GENERATORS

INTRODUCTION

This Group contains instructions for inspecting, testing, and repairing generators after they have been removed from the tractor or machine. Although variations exist in generators used on John Deere tractors and machines, the variations are of such a minor nature that the instructions given may be applied to all of them.

TEST EQUIPMENT REQUIRED

The basic instruments required for testing generators are as follows: (1) A brush spring tension scale; (2) A combination test unit consisting of test prods with lamp; (3) An electrical servicer; (4) An armature growler; and (5) A volt-ampere tester. An ammeter is also used to measure current flow. See page 10-15-1 for illustrations of these types of instruments.

CLEANING

When it is necessary to clean a generator, scrape off most of the dirt or grease,

then use a stiff brush and solvent to finish the job. Do not immerse the generator in cleaning solution. After it is thoroughly clean, dry it with compressed air.

CHECKING BRUSH SPRING TENSION

Using a brush spring tension scale, check the tension of commutator brush springs (Fig. 40-10-1). Read the tension scale just as spring tension is taken off the brush. Compare the result with specifications listed in Section 90. Replace springs that are faulty, distorted, weak, rusty, or show evidence of excessive heating.

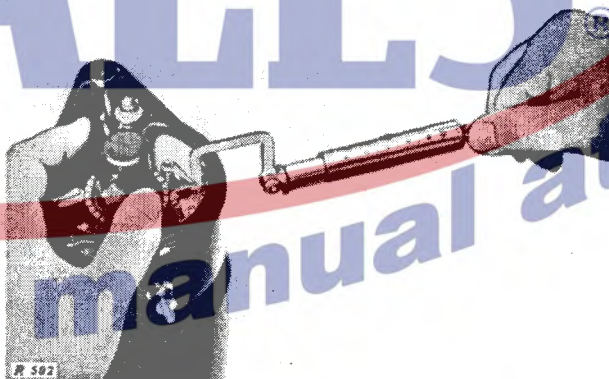


Fig. 40-10-1—Checking Brush Spring Tension

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Group 20

PINION ADJUSTMENT

After a cranking motor with overrunning clutch has been assembled it will be necessary to check and (possibly) to adjust the amount of pinion travel before the assembly is mounted on the tractor or machine.

EQUIPMENT REQUIRED

A 6-volt battery is used in the check and adjustment of a cranking motor with solenoid switch. An electrical servicer is convenient because it contains a battery and provides a handy holding device for the cranking motor.

ADJUSTING PINION

CRANKING MOTORS WITH BENDIX DRIVE

No pinion adjustment is necessary for cranking motors with Bendix drive.

CRANKING MOTORS WITH OVERRUNNING CLUTCH DRIVE

With Manual Switch

Pinion movement must be adjusted to insure a minimum of $\frac{3}{16}$ inch between the end of the pinion and the inside edge of the motor drive housing (Fig. 50-20-1). There is no



Fig. 50-20-1—Checking Manual Switch Pinion Adjustment

direct provision for making this adjustment. If the dimension is not correct, the condition is usually due to worn or bent switch contacts. These defects permit the pinion to travel too far toward the end of the motor drive housing.

A small amount of adjustment can be made by locating the switch as far as possible toward the drive end of the motor when attaching it. The switch can be shifted a small additional amount by slotting the attaching screw holes. If proper adjustment cannot be obtained by these means, replace worn parts.

With 12-Volt Solenoid Switch

Mount motor on electrical servicer or suitable holding device, as shown in Fig. 50-20-2. Disconnect heavy cable from solenoid to cranking motor.

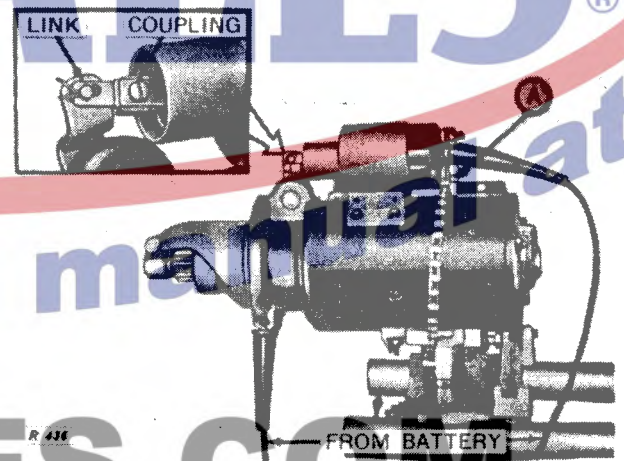


Fig. 50-20-2—Battery Connections for Pinion Adjustment, 12-Volt Motor with Detachable Solenoid-to-Motor Connector

Connect one wire from a 6-volt battery to solenoid control switch terminal "A."

Push solenoid to engaged position by hand. Connect remaining battery wire to a good ground on cranking motor.

MAGNETIC AND SOLENOID SWITCH SPECIFICATIONS

Model No.	Current Consumption			
	Both Windings		Hold-in Winding	
	Amps	Volts	Amps	Volts
1465	5.7- 7.0	6	--	--
1571	3.1- 3.7	4	--	--
1118008	12.0-13.0	12	--	--
1119799	5.7- 7.0	6	--	--
1119803	41.6-45.8	24	7.3- 8.3	24
1119833	72.0-76.0	10	18.0-20.0	10
1119879	72.0-76.0	10	18.0-20.0	10

DISTRIBUTOR SPECIFICATIONS

Model No.	Rotation	Cam Angle	Point Spacing	Point Spring Tension	Advance Start	Deg. Dist.	Int. Adv.	Max. Adv.	Deg. Dist.
<u>Delco-Remy</u>									
1111558	C	86-96°	.022"	17-21 oz.	400 rpm	1-5°	700 rpm	1000 rpm	23-26°
1111709	C	32°	.022"	17-21 oz.	325 rpm	0-2°	550 rpm	800 rpm	13-15°
1111733	B	21-30°	.016"	--	275 rpm	0-2°	800 rpm	1200 rpm	13-15°
1111742	B	--	--	17-21 oz.	250 rpm	0-2°	850 rpm	850 rpm	14-16°
1112571	C	32°	--	17-21 oz.	300 rpm	0-2°	600 rpm	875 rpm	11.5-13.5°
1112576	CC	57-65°	.022"	--	375 rpm	5-3.5°	--	550 rpm	8.5-11.5°
1112577	C	25-34°	.022"	17-21 oz.	225 rpm	0-2°	350 rpm	1200 rpm	14-16°
1112581	C	31-37°	.022"	--	225 rpm	0-2°	350 rpm	1200 rpm	14-16°
<u>Autolite</u>									
IAD-4029	R	42°	.020"	--	300 rpm	0-1°	500 rpm	1200 rpm	6-10°
IAD-4036	L	42°	--	--	275 rpm	0-1°	550 rpm	575 rpm	13-14°
<u>Wico</u>									
XB-4001B	CC	--	.014-.017"	18-26 oz.	--	--	--	25°	--
B-4027	C	--	.019-.022"	18-26 oz.	fixed spark	--	--	--	--

CONDENSOR SPECIFICATIONS

Manufacturer	Model No.	Microfarad Capacity
<u>Delco-Remy</u>	1869704	0.18 -.23
	1900272	0.18 -.23
<u>Edison-Splitdorf</u>	6367	0.16 -.20
	36164	0.090-.015
	51441	0.132-.168
<u>Fairbanks-Morse</u>	DRV 2B	0.16 -.18
	R 2433	0.16 -.18
<u>Wico</u>	K 6977	0.16 -.20
	X 1413	0.16 -.20
	X 2595	0.16 -.20
	X 5614	0.16 -.20
	X 6916	.30 -.34
	X 9263	.03 -.034