

# TESTING PROCEDURE

## SERIES B EQUIPMENT

### LUCAS RM12 DOUBLE WOUND ALTERNATOR (6 leads)

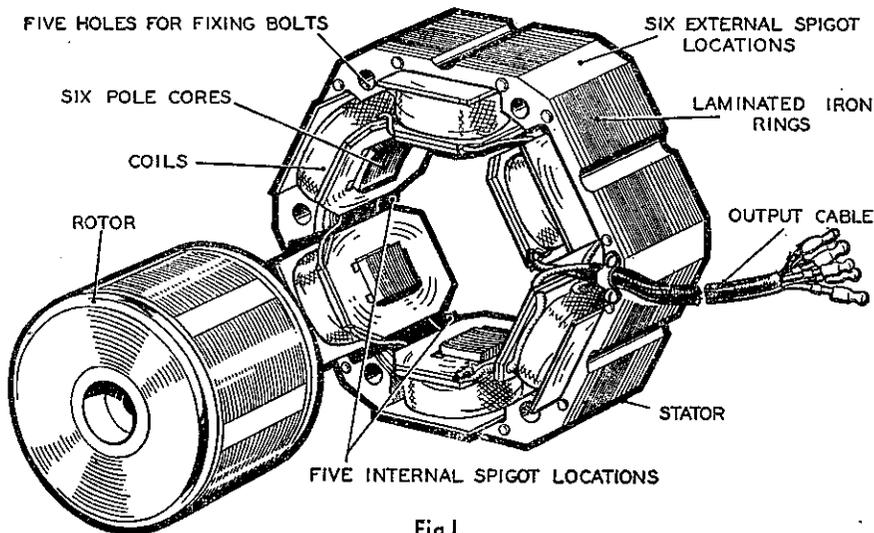


Fig.1.

#### LUCAS R.M.12 MOTOR CYCLE ALTERNATOR

##### INTRODUCTION.

From experience gained with the "single" wound alternator we have now introduced an improved version of the RM12. The main difference is that the stator coils are now double wound, i.e., each pole carries two separate coils. This improves its performance and provides current to give adequate battery charging under widely varying road conditions. A two plate full wave rectifier is used with the double wound machine. The alternator now has six main leads, two more than the "single" wound machine.

##### NOMENCLATURE.

The set consists of —	Alternator	RM12	{ Rotor	Service No. 465674
			{ Stator	" " 465698
	Lighting Switch	PRS6	" "	34087
	Ignition Switch	PRI/1	" "	34088
	Rectifier	DSRI	" "	47097

##### OUTPUT CONTROL.

The maximum output of the machine is similar to that of the "single" wound unit, but is more closely controlled. This is obtained by shorting out sections of the stator coils and reducing the effective size of the coil in use.

The connections are as follows:— (See Wiring Diagram)

- (a) Lighting Switch "OFF."  
Output taken from Green and Purple—all other coils shorted out.
- (b) Lighting Switch "LOW."  
Output taken from Yellow and Purple (Red and Green connected)—the other two coils shorted out.
- (c) Lighting Switch "HIGH."  
All the coils are used. The connections are similar to B with Buff connected to Red and Grey connected to Purple.