

# Electrical System — Group 15/54/82

## A. Starter

### General

Designation	EED 0.8 / 12 R 30
Adjusting dimension for solenoid switch (see Fig. 15 — 2/2)	$a = 32.4 \pm 0.1$

### Test Values

Voltage under load Volts	Current amp.	Speed rpm
9.5	160 — 180	1100 — 1250

**Note:** The test should be made with a well-charged 12 volt battery with a capacity of 135 Amp/h

## B. Generator

### General

Designation	Generator LJ / GEG 160/12 — 2500 R 8	
	Regulator RS / UA 160/12/15	
Minimum permissible diameter of commutator when reconditioned		31.5
Permissible run-out	of commutator 0.03	of armature core laminations 0.05
Springs for carbon brushes	Brush pressure 450—500 g	

**Test Values**

Generator LJ/GEG 160/12 — 2500 R 8				Regulator RS/UA 160/12/15	
Regulating voltage Volts	Cut-in speed rpm	Load at rated output watts	Speed rpm	Starting of regulator at rated output (given battery and load conditions) amp.	Return current amp.
engine idling without battery 13.8 — 14.8	2050	160	2560	17.5 — 20.5 cold 19.5 — 22.5 warm	2.5 — 7.5

**Note:** When the generator is tested, the brushes must be well run in. At normal operating speeds and rated load there must be no arcing of the commutator

**C. Ignition Coil**

Designation	TK 12 A 3
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**Test Values**

Spark length	14 mm	Primary current	1.3 amp.
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**D. Distributor****General**

Designation	VJU 4 BR 14 m K
Contact gap	0.40 — 0.50
Angle of closure	48° — 52°
The angle of closure must not change by more than 3° over the whole speed range	
Contact pressure of contact breaker	400 — 500 g
Permissible end play of distributor shaft	0.1 — 0.2