

Electrical Testing of Generator and Regulator (Three-Element Voltage/Current Regulator)

Job No.

15-16

On Models 180 to 220 SE the testing procedures for the generator and the regulator (three-element voltage/current regulator) and also the color coding of the electric leads are the same as on Model 190.

Test Values for Generator and Regulator

Model	Generator Bosch	Regulation voltage when idling volts	Maximum cut-in engine speed r.p.m.	At rated output maximum load engine speed		Regulation voltage or cut-in of current re- gulator at rated output and 1.5 x rated engine speed	Reverse current amps.	Regulator Bosch
				watts	r.p.m.			
180	LJ/GE 160/12/2500 R 7	7.0—7.6	1560	160	2550	41—45 amps. warm	4.5—8.5	RS/UA 160/6/30
180 D 180 Db	LJ/GEG 160/12/2500 R 10	13.8—14.8	2000	160	2550	17.5—20.5 amps.	2.5—6.5	RS/UA 160/12/15
180 a, 180 b, 190 SL	LJ/GEG 160/12/2500 R 8	13.8—14.8	2000	160	2550	17.5—20.5 amps.	2.5—6.5	RS/UA 160/12/15
190 D 190 Db, 220 a 219, 220 S	LJ/GEG 160/12/2500 R 9	13.8—14.8	2000	160	2550	17.5—20.5 amps.	2.5—6.5	RS/UA 160/12/15
220 SE	LJ/GG 240/12/2400 R 8	13.8—14.8	1800	240	2350	27—31 amps.	5—9	RS/UA 240/12/38

Trouble Shooting Hints for the Generator

Job No.

15-17

The trouble shooting hints for the generator given for Model 190 also apply to Models 180 to 220 SE.