

Job No.

15-4

Disassembly and Reassembly of Starter

The carbon brush pressure should be **800–900 g** for all starters.

For the starters of Models 180 D, 180 Db, 190 D, and 190 Db the minimum permissible diameter of the commutator is

39.5 mm

and for the starters of all other models

33.5 mm

Job No.

15-5

Electrical Testing of Starter

The testing procedures for the starter on Models 180 to 220 SE are the same as on Model 190.

Test Values for Starter

Model	Starter Bosch	Voltage	Current under load (braked)	Speed
		Volts	Amp.	r.p.m.
180	EDG 0.6/6 AR 22	4.5	260—280	675—100
180 D, 180 Db	EJD 1.8/12 R 70	9.0	320—340	1100—1350
190 D, 190 Db	EJD 1.8/12 R 88	9.0	320—340	1100—1350
190 SL	EED 0.8/12 R 28 EED 0.8/12 R 31	10.5	160—180	1050—1400
180 a, 180 b, 220 a, 219, 220 S and 220 SE	EED 0.8/12 R 30	10.5	160—180	1050—1400

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Trouble Shooting Hints for the Starter

The trouble shooting hints for the starter on Models 180 to 220 SE correspond to those described for Model 190.