

TIGHTENING TORQUES

STARTERS	LUCAS M50	LUCAS M45G	C.A.V. CA45F	CHRYSLER
Through bolts	1/4 in. dia. 10,84 Nm 8.0 lbf. ft. 5/16 in. dia. 13,55 Nm 10 lbf. ft.	1/4 in. dia. 10,84 Nm 8.0 lbf. ft. 5/16 in. dia. 13,55 Nm 10 lbf. ft.	9,8 Nm 7.25 lbf. ft.	5,0 Nm 3.7 lbf. ft.
Brush plate fixing screws	3,10 Nm 2.3 lbf. ft.	Rivetted	—	—
Solenoid fixing nuts	6,20 Nm 4.6 lbf. ft.	6,20 Nm 4.6 lbf. ft.	—	7,3 Nm 5.4 lbf. ft.
Solenoid terminal nuts	3,10 Nm 2.3 lbf. ft.	5,65 Nm 4.2 lbf. ft.	—	—
Solenoid Main battery connections	4,06 Nm 3.0 lbf. ft.	2,26 Nm 1.7 lbf. ft.	6,8 Nm 5 lbf. ft.	—
Eccentric pivot pin lock nut	26,9 Nm 19.8 lbf. ft.	20,1 Nm 14.75 lbf. ft.	—	—
Pole fixing screws	—	—	37,4 Nm 27.5 lbf. ft.	—
Pinion stop nut	—	—	61 Nm 45 lbf. ft.	—
End cup	—	—	11,5 Nm 8.5 lbf. ft.	—
Starter to flywheel housing — All engines except 6 cyl. petrol — 57 Nm (42 lbf. ft.) 6 cylinder petrol engine — 68 Nm (50 lbf. ft.)				

DATA

FUNCTION	LUCAS M50	LUCAS M45	CHRYSLER Geared Type	C.A.V. CA45F
Voltage	12	12	12	12
Lock torque or amperage	50,12 Nm (37,5 lbf. ft.) 1070A @ 5,0V	35 Nm (26,0 lbf. ft.) 500A @ 5,6V	475/550 amp 4V	47,01 Nm (35,5 lbf. ft.) 1,240A @ 4,5V
Torque or amps at 1000 RPM	25,15 Nm (18,6 lbf. ft.) 650A @ 7,5V	18,24 Nm (13,5 lbf. ft.) 500A @ 8,0V	N/A	20,21 Nm (15,0 lbf. ft.) 650A @ 8V
Light running amperes @ specified RPM	100 5,500/7,500	100 5,000/6,000	90 3,700/4,200	100/150 7,000
Solenoid closing	0,13/0,15 ohms	0,13/0,15 ohms	13—15A @ 6 volts	Standard 39A Oil sealed 59A
Solenoid hold	0,63/0,73 ohms	0,63/0,73 ohms	8—9A @ 6 volts	N/A
Brush spring tension	1,18 Kg 42 ozs	0,85/1,14 Kg 30/40 ozs	0,90/1,02 Kg 32/36 ozs	2,7/3,4 Kgm 6,0/7,5 lbs.
Commutator minimum dia.	38,0 mm 1,5 in.	38,0 mm 1,5 in.	N/A	39,2 mm 1,56 in.
Armature end float	1,016 mm 0,040 in.	0,254 mm 0,0101 in.	0,254/1,143 mm 0,010/0,045 in.	2,03 + 0,5 mm 0,079 + 0,020 mm
Minimum brush length	8,0 mm 0,313 in.	8,0 mm 0,313 in.	One half of new brush length	12,7 mm 0,5 in.