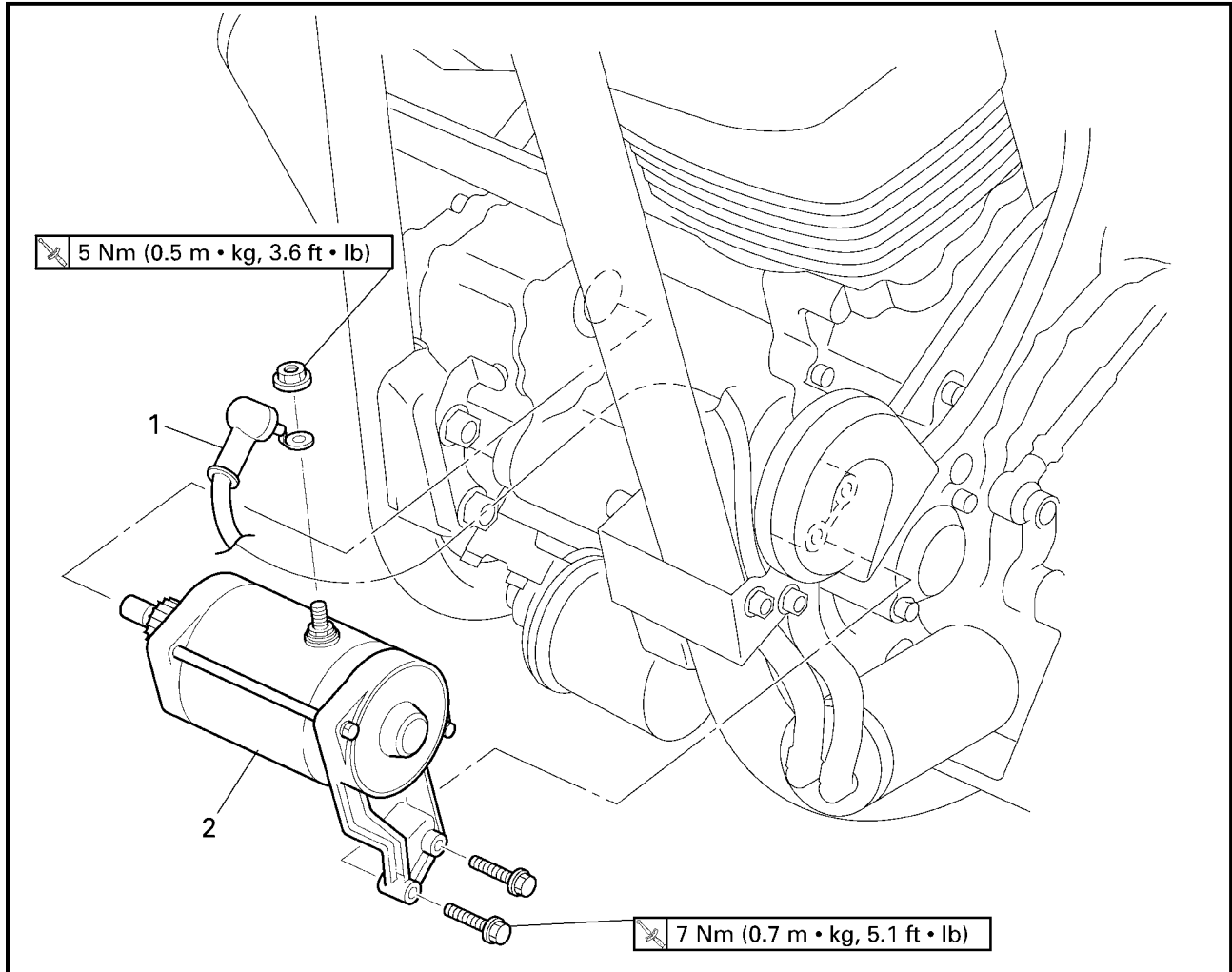


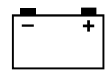
EB803500

STARTER MOTOR

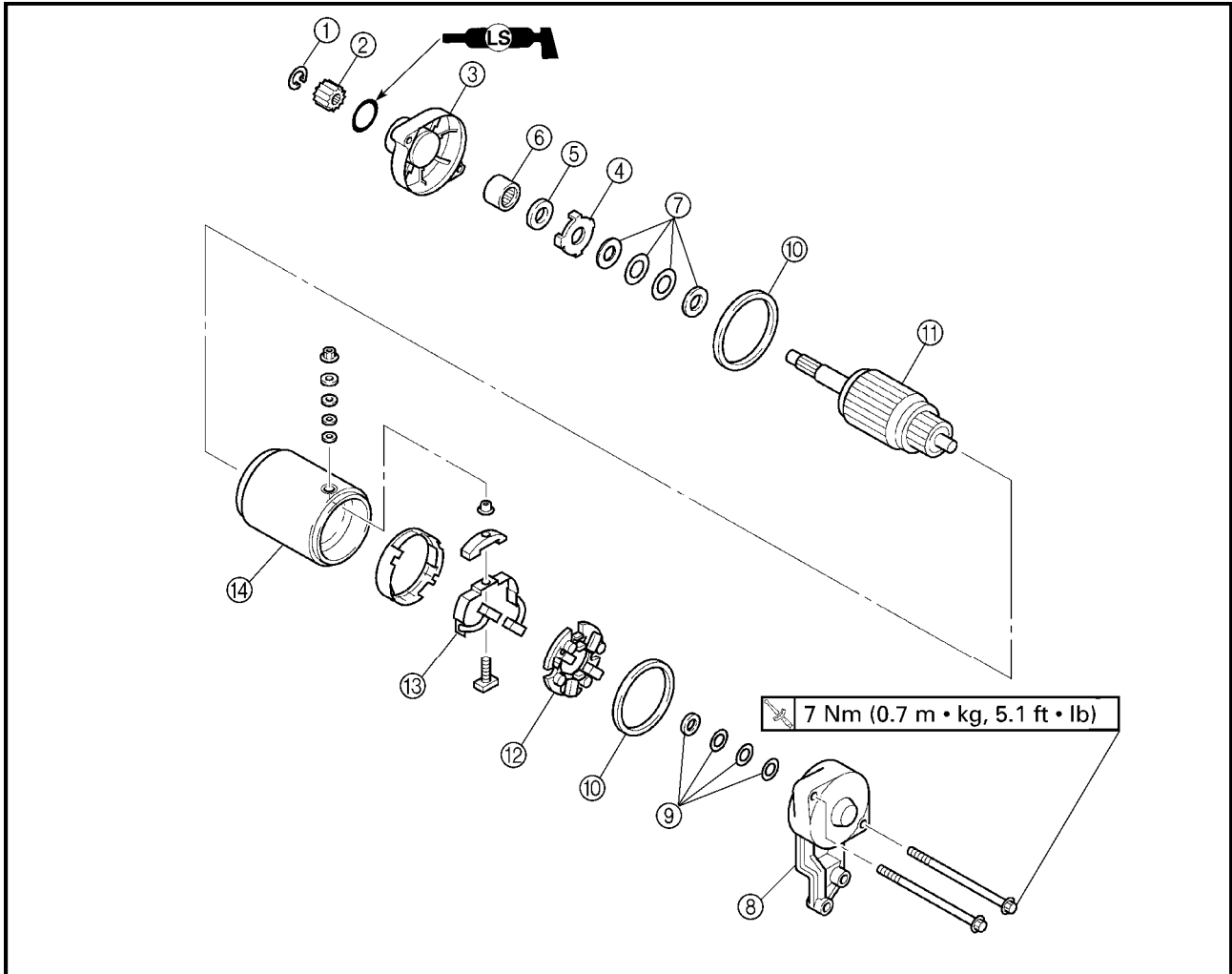


Order	Job/Part	Q'ty	Remarks
	Removing the starter motor		Remove the parts in the order listed.
1	Starter motor lead	1	
2	Starter motor assembly	1	
			For installation, reverse the removal procedure.

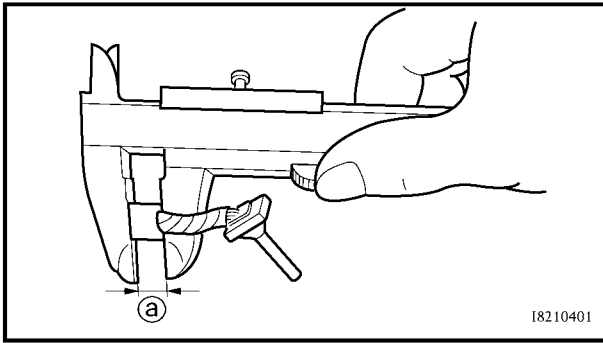
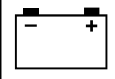
7



EB803501



Order	Job/Part	Q'ty	Remarks
	Disassembling the starter motor		Remove the parts in the order listed.
①	Circlip	1	
②	Starter motor	1	
③	Starter motor rear cover	1	
④	Lock washer	1	
⑤	Oil seal	1	
⑥	Bearing	1	
⑦	Washer set	1	
⑧	Starter motor front cover	1	
⑨	Washer set	1	
⑩	O-ring	2	
⑪	Armature assembly	1	
⑫	Brush seat (along with the brushes)	1	
⑬	Brush holder (along with the brushes)	1	
⑭	Starter motor yoke	1	
			For assembly, reverse the disassembly procedure



I8210401

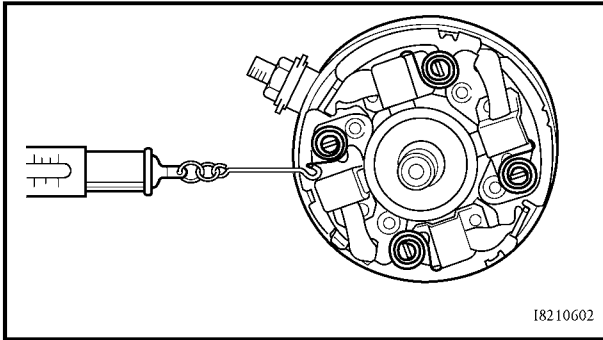
5. Measure:

- brush length ①

Out of specification → Replace the brushes as a set.



Minimum brush length
5 mm (0.20 in)



I8210602

6. Measure:

- brush spring force

Out of specification → Replace the brush springs as a set.



Brush spring force
7.65 ~ 10.01 N
(765 ~ 1,001 gf, 27.0 ~ 35.3 oz)

7. Check:

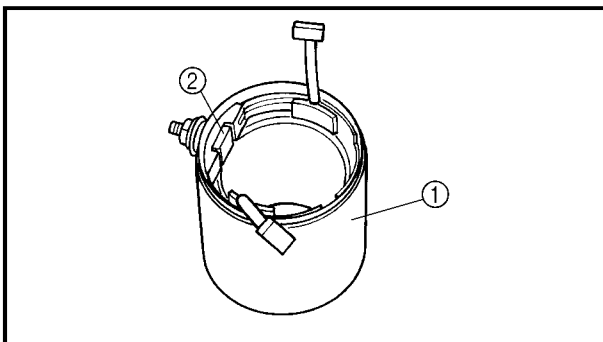
- gear teeth

Damage/wear → Replace the gear.

8. Check:

- bearing
- oil seal

Damage/wear → Replace the defective part(s).

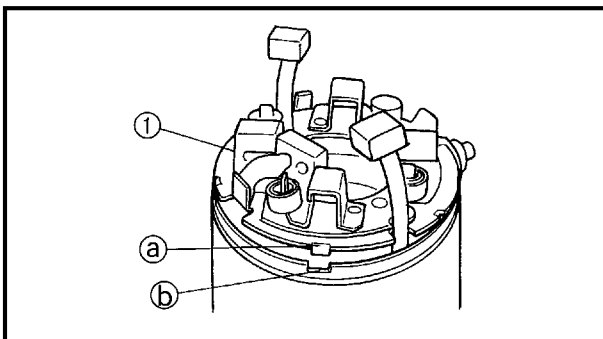


EB803701

ASSEMBLING THE STARTER MOTOR

1. Install:

- starter motor yoke ①
- bush holder ②

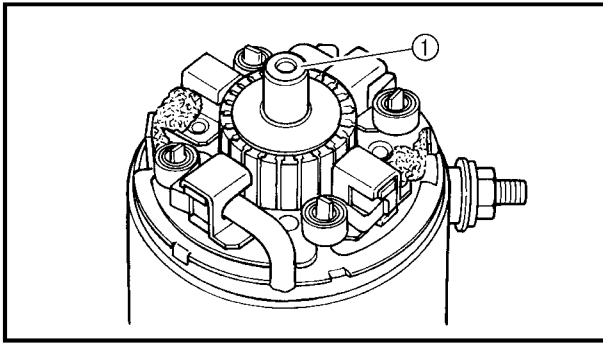
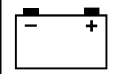


2. Install:

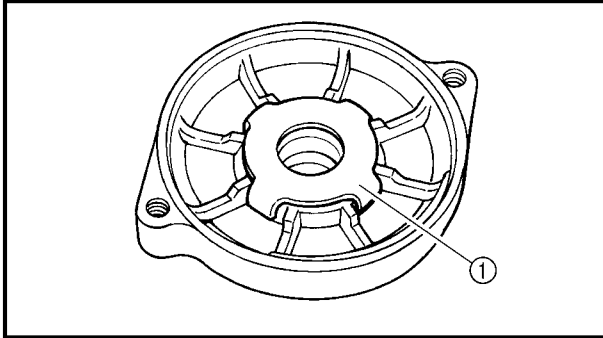
- brush seat ①

NOTE:

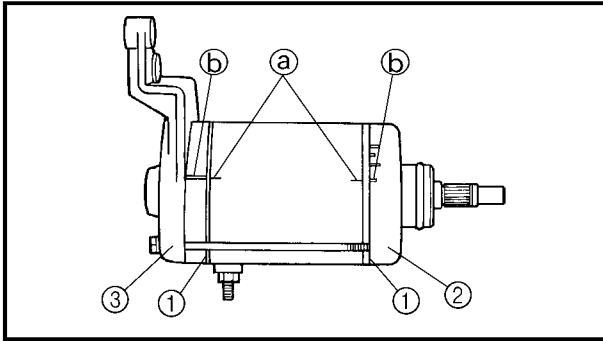
Align the tab ① on the brush seat with the slot ② in the starter motor rear cover.



3. Install:
- armature assembly

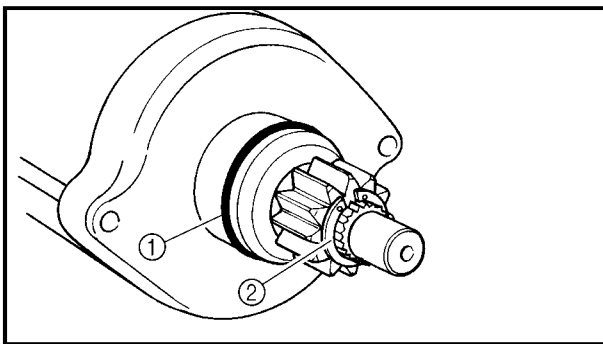


4. Install:
- bearing
 - oil seal
 - lock washer ①



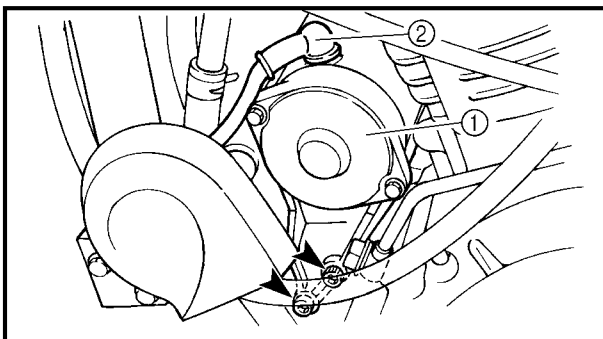
5. Install:
- O-rings ① **New**
 - starter motor rear cover ②
 - starter motor front cover ③
 - bolts **7 Nm (0.7 m · kg, 5.1 ft · lb)**

NOTE: Align the match marks ① on the starter motor yoke with the match marks ② on the front and rear covers.



6. Install:
- starter motor gear ①
 - circlip ②

7



INSTALLING THE STARTER MOTOR

1. Install:
- starter motor ① **7 Nm (0.7 m · kg, 5.1 ft · lb)**
2. Connect:
- starter lead ② **5 Nm (0.5 m · kg, 3.6 ft · lb)**