

Product: EXCAVATOR

Model: 245B EXCAVATOR 6MF

Configuration: 245B SERIES II EXCAVATOR 6MF00513-UP (MACHINE) POWERED BY 3406 ENGINE

Disassembly and Assembly 37-MT, 41-MT, and 42-MT Series Starting Motors

Media Number -SEN3581-04

Publication Date -01/10/2008

Date Updated -24/10/2008

i01557321

General Information

SMCS - 1453

37-MT and 41-MT Starting Motors

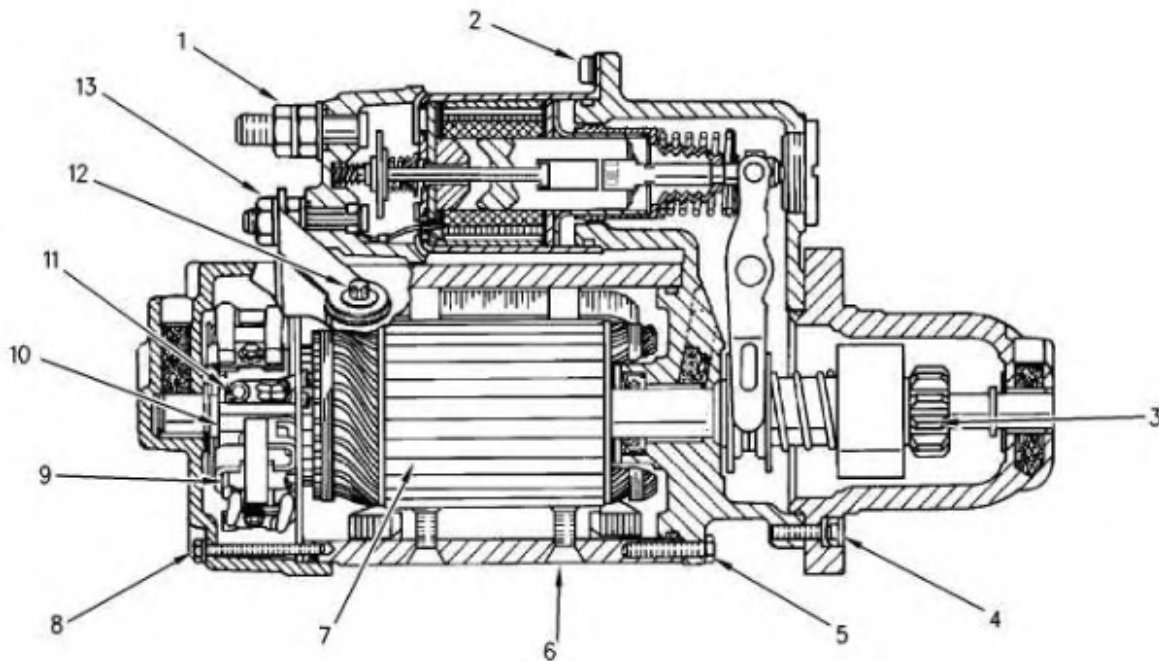


Illustration 1

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37-MT and 41-MT Cross section view

(1) Nut (Battery)

(2) Solenoid Mounting Screws

(3) Pinion

- (4) Pinion Drive Housing Bolts
- (5) Shift Lever Housing Bolts
- (6) Field Winding Screws
- (7) Laminated Core
- (8) Rear Housing Bolts
- (9) Brush
- (10) Commutator
- (11) Brush Lead Screws
- (12) Motor Terminal Bolt
- (13) Motor Terminal Nut

42-MT Starting Motors

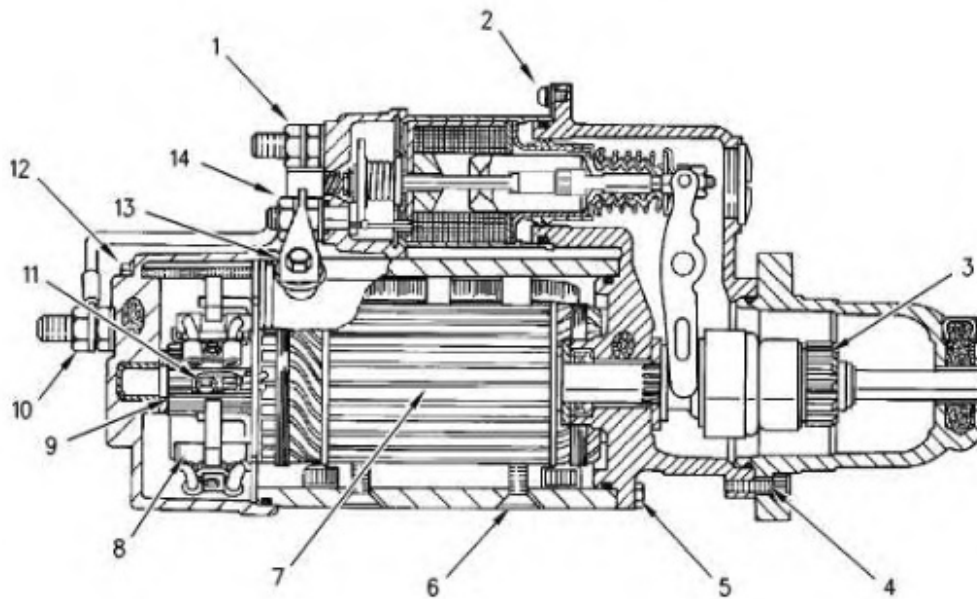


Illustration 2

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42-MT Cross section view

- (1) Nut (Battery)
- (2) Solenoid Mounting Screws
- (3) Pinion
- (4) Pinion Drive Housing Bolts
- (5) Shift Lever Housing Bolts

- (6) Field Winding Screws
 - (7) Laminated Core
 - (8) Brush
 - (9) Commutator
 - (10) Ground Terminal Nut
 - (11) Brush Lead Screws
 - (12) Rear Housing Bolt
 - (13) Motor Terminal Bolt
 - (14) Motor Terminal Nut
-

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i01559954

Starting Motor - Disassemble - 42-MT

SMCS - 1453-015

Disassemble the Starting Motor

Note: The disassembly and assembly that follows is of the 24 volt starting motor. The 12 volt is similar.

Table 1

Required Tools			
Tool	Part Number	Part Description	Quantity
A	1P-1855	Retaining Ring Pliers	1
B	1P-0510	Driver Gp	1

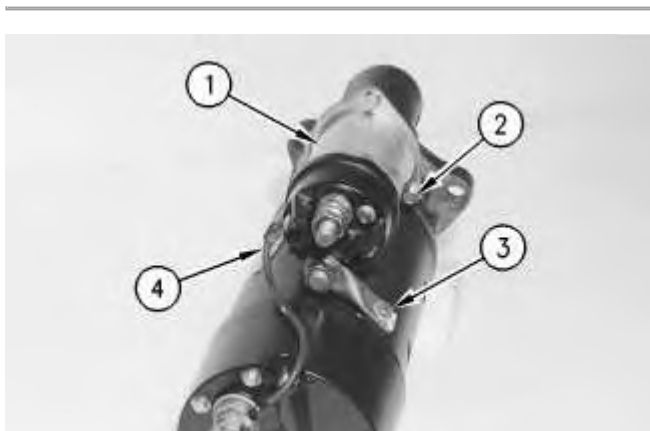


Illustration 1

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1. Disconnect wire assembly (4) from solenoid (1). Disconnect motor terminal connector (3) from the starting motor housing.
2. Remove three bolts (2) from the shift lever housing. Do not disassemble the solenoid. The parts inside the solenoid are not serviceable.

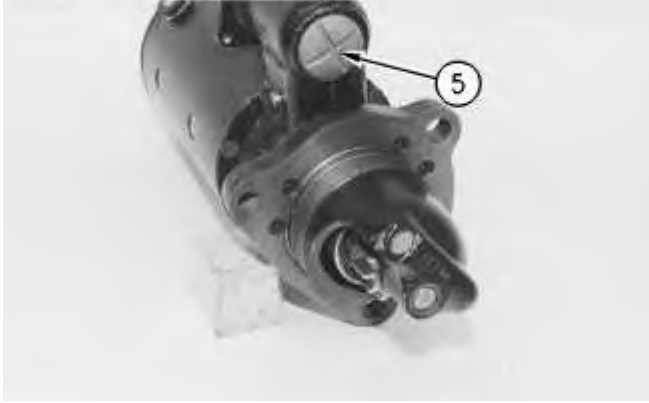


Illustration 2

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3. Remove the O-ring seal and bushing (5) .

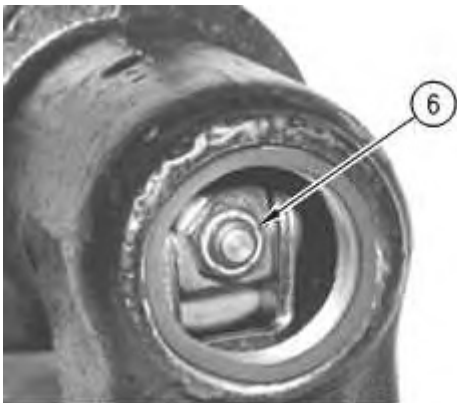


Illustration 3

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4. Remove the nut (6). Remove the solenoid from the shift lever housing.
-

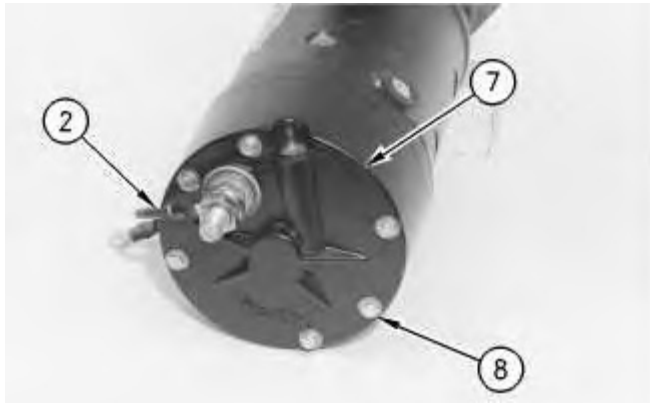


Illustration 4

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5. Remove the negative terminal nuts "-", wire assembly (2), and washers. Remove six bolts (8) and rear housing (7) .



Illustration 5

g00818558

6. If necessary, remove bushing (9) from the rear housing.

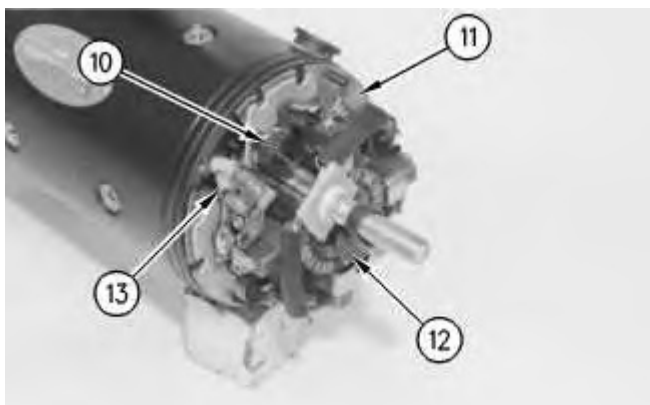


Illustration 6

g00810576

7. Remove washer (12) from the armature shaft. Lift brush springs (10) and pull the brushes away from the commutator. Position the brush springs (10) on the side of the brushes in order to hold the brushes in the holders.
8. Disconnect field winding leads (13) from brush holder (11). Remove the brush holder.

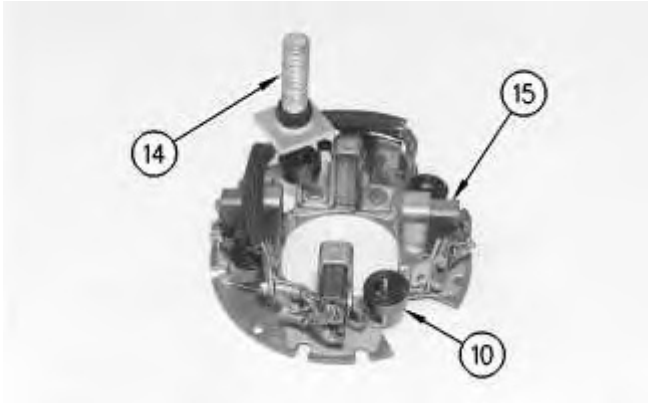


Illustration 7

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9. Remove brushes (15) and negative "-" terminal (14) from the brush holders.

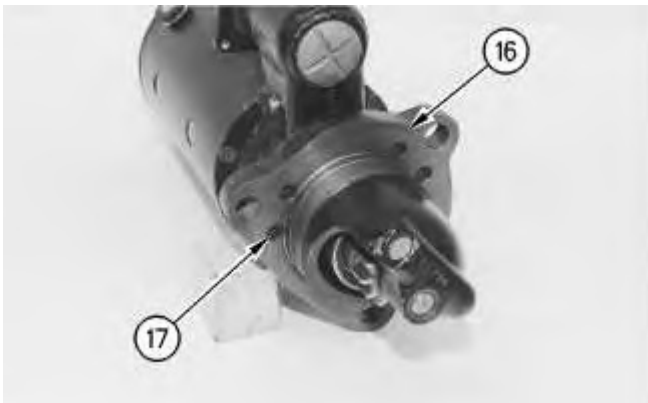


Illustration 8

g00810579

10. Scribe a line on the pinion drive, the shift lever and the starting motor housings for the correct alignment at assembly.
 11. Remove six bolts (17) and pinion drive housing (16) .
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