

BRUSH & FRAME ASSEMBLY REPLACEMENT INSTRUCTIONS FOR 29MT, 38MT & 39MT HD STARTERS

This kit contains parts to replace the Brush & Frame assembly on a 29MT, 38MT or 39MT HD Starting Motor.

WARNING!!! ALWAYS USE PROPER EYE PROTECTION WHEN PERFORMING ANY MECHANICAL REPAIRS TO A VEHICLE – INCLUDING, BUT NOT LIMITED TO, ANY INSTALLATION AND OR REPAIRS TO THE DELCO REMY STARTING MOTORS. FAILURE TO USE PROPER EYE PROTECTION CAN LEAD TO SERIOUS AND PERMANENT EYE DAMAGE.

Only perform the mechanical functions that you are properly qualified to perform. Mechanical repairs that are beyond your technical capabilities should be handled by a professional installation specialist.

FOLLOW ENGINE AND/OR VEHICLE MANUFACTURER'S INSTRUCTIONS CAREFULLY WHEN REMOVING AND INSTALLING THE STARTER.

REMOVAL INSTRUCTIONS

DANGER!!! ALWAYS DISCONNECT BATTERY GROUND BEFORE REMOVING OR REPLACING CABLES AT THE STARTER. FAILURE TO DISCONNECT THE BATTERY GROUND CABLE CAN LEAD TO SERIOUS INJURY.

1. Remove vehicle leads connected to the Starter, noting their positions for reinstallation of Starter.
2. Remove the Jump Start Protection Shield, if it has this feature, and the Solenoid Motor terminal Lead.
3. **39MT Starters** -Remove the Ground (-) terminal assembly, Brush Holder fastener assembly and Retainer on optional Over Crank Protection Connector, carefully noting parts orientation for reassembly.
4. **29MT & 38MT Starters** - Remove the two (2) Brush Holder screws and Commutator End Housing assembly.
5. **39MT Starters** -Remove the Commutator End Housing, two (2) O-Rings from each Brush holder terminal, Insulation Plate and Spacer.
6. Remove and dispose of the Brush Holder & Frame assembly.

INSTALLATION INSTRUCTIONS

1. **29MT Starters** -Install new O-Rings on each end of the Frame.
2. Install new Alignment Pin, Brush Holder & Frame assembly, ensuring notch in frame is over the Housing Alignment Pin.
3. Install lead, as removed, to the Solenoid Motor terminal and torque nut on **38MT & 39MT** to **15.7-18.6 Nm (12-14 lb ft)** and the **29MT** to **7.3-9.3 Nm (65-82 lb in)**.
4. Install the Jump Start Protection Shield, if it has this feature, and torque the shield nut to **2.0-2.5 Nm (18-22 lb in)**.
5. **39MT Starters** –Reassemble the Spacer, Insulation Plate and two (2) O-Rings on each Brush Holder terminal.
6. Reinstall Commutator End Housing or Housing assembly.
7. Apply Loctite to Thru-bolts threads, install and torque to **7.7-9.8 Nm (68-87 lb in)**.
8. **39MT Starters** –Reinstall Ground (-) terminal assembly, Brush Holder fastener assembly, Retainer on optional Over Crank Protection Connector. Torque the Ground terminal nut to **24.5-27.5 Nm (18-20 lb ft)** and the Brush Holder fastener assembly nut to **7.0-11.0 Nm (62-97 lb in)**.
9. **29MT & 38MT Starters** –Reinstall Brush Holder screws and torque to **2.4-3.0 Nm (21-26 lb in)**.
10. Reattach leads to Starter Ground (-) terminal, if it has one, and torque nut to **24.5-27.5 Nm (18-20 lb ft)**.
11. Reconnect the Negative (-) cable at the Battery.

Technical support: USA 800 854 0076, Mexico 01 800 000 7378, Brazil 0800 703 3526, South America 55 11 2106 6510 or visit delcoremy.com

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