

PINION REPLACEMENT INSTRUCTIONS FOR 29MT, 38MT & 39MT HD STARTERS

This kit contains the parts necessary to replace the Pinion 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.

Starters may have a Magnetic Switch (Relay) directly attached, referred to as Integral Magnetic Switch (**IMS**), and the 39MT may also have a Jump Start Protection (**JSP**) Shield over the Solenoid terminals. **If this starter does not have either an IMS or JSP feature, ignore comments or instructions related to them.**

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. **39MT** -Remove JSP Shield, if it has this feature.
3. Remove the rest of leads connected to the Solenoid terminals, noting their positions for reassembly.
4. Remove the IMS (Relay), if it has this feature, and Starter Solenoid.
5. Dislodge the Pinion Stop, remove Retainer Ring, Pinion stop, Pinion and Spring. Dispose of these parts.

INSTALLATION INSTRUCTIONS

1. Apply "Aeroshell (R) Grease 7" between pinion and output shaft spline, on the sealing lips and on the output shaft sliding area.
2. Assemble new Spring, Pinion, Pinion Stop and Retainer Ring.
3. Force Pinion Stop over retainer ring. NOTICE! Ensure the Stop and Retainer are securely locked together.
4. Reinstall Starter Solenoid and torque the Mounting Bolts to 7.7-9.8 Nm (68-87 lb in).
5. Reinstall IMS, if it has this feature, and torque the Mounting Bolts to 7.7-9.8 Nm (68-87 lb in).
6. **39MT** -Reconnect lead or leads, as removed, to the Solenoid Ground (-) terminal and torque the Nut or Screw to 2.0-2.5 Nm (18-22 lb in).
7. Reconnect lead, as removed, to Solenoid Switch (+) terminal and torque nut to 2.0-2.5 Nm (18-22 lb in).
8. **39MT** -Replace JSP Shield, if it has this feature, and torque Shield attaching nut to 2.0-2.5 Nm (18-22 lb ft).
9. **39MT** -Secure Solenoid Ground lead to the Solenoid, if it has the JSP feature, with a Wire Tie.
10. Reconnect Battery Positive (+) cable and other leads, as removed, to Solenoid Battery (+) terminal and torque Nut assembly to 24.5-27.5 Nm (18-20 lb ft).
11. Reconnect lead to IMS (Relay) Switch terminal, if it has this feature, and torque screw to 1.9-2.4 Nm (17-21 lb in).
12. Reattach Battery Negative (-) cable, as removed, to Starter Ground (-) terminal and torque Nut assembly to 24.5- 27.5 Nm (18-20 lb ft).
13. 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

NOTICE - Only licensed Remy International, Inc. product and component parts should be used, and the use of other parts or modifications not approved by Remy International, Inc. will void all applicable warranties. The failure to carefully follow these Installation Instructions, set forth above, will void all applicable warranties. DELCO REMY is a registered trademark of General Motors Corporation, licensed to Remy International, Inc. Pendleton, IN 46064.