

REPLACING STARTING MOTOR SOLENOID

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 STARTER. 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.

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

The solenoid in this package replaces solenoids on several types of starting motors. Universal mounting hardware is included; use the parts necessary to fit the starter being repaired.

CAUTION: If the starter is still installed on the engine, disconnect the negative battery cable at the battery before working on the starter. Otherwise, the positive battery cable connection at the solenoid is "hot at all times". If the negative battery cable is not disconnected, a tool accidentally shorted at the solenoid battery connection will heat very quickly and may cause personal injury due to skin burns.

NOTICE! Use only the attaching nuts provided with the new solenoid to connect the wiring. The threads on the new terminals may be different from the old solenoid. Installing the old nuts could damage or strip the threads.

To replace the old solenoid, use the following steps:

1. Disconnect negative battery cable at battery.
2. Identify wires connected to starter solenoid and note their positions for later connection to the new solenoid.
3. Remove starter from engine, if necessary. Follow vehicle or engine manufacturer's instructions. To replace solenoid with starter on engine, disconnect engine wiring and positive battery cable from solenoid terminals.
4. Disconnect motor field connector strap from solenoid terminal.
5. Remove solenoid mounting bolts and old solenoid from starter. Plunger return spring may come off with solenoid.
6. Place return spring on plunger, then install new solenoid to starter with mounting bolts. Tighten solenoid mounting bolts to 8.0 Nm (70 lb in).

7. Check the terminals on the new solenoid to be sure the terminal mounting nuts (next to the cap) are secure. The nuts on the larger terminals should be tightened to 8.5 Nm (75 lb in). The nuts on the smaller "S" and "R" terminals should be tightened to 2.5 Nm (20 lb in). These terminals must be secure in the cap before attaching wiring to them.
8. Attach motor field connector strap to solenoid terminal. If field strap rests against solenoid terminal, install plain washer and short attaching screw. If there is a space between the field connector and the solenoid terminal, place spacing connector (provided in package) between strap and terminal and install plain washer and long attaching screw. Tighten attaching screw to 4.5 Nm (40 lb in).
9. Reinstall starter to engine if necessary, following vehicle or engine manufacturer's instructions.
10. Attach engine wiring to "S" and "R" solenoid terminals as identified in step (2), using lockwashers and nuts provided in package. Tighten nuts to 2.5 Nm (20 lb in).
11. Attach positive battery cable and any other appropriate wiring to large solenoid terminal. Use plain washer and attaching nut supplied in package. Tighten to 8.5 Nm (75 lb in).
12. If starter wiring is disconnected for any reason, always repeat step (7) before reconnecting.
13. Reattach negative battery cable at battery.

WARNING – Be aware that only licensed Remy Inc. product and component parts should be used and the use of other parts or modifications not approved by Remy Inc. will void any warranty concerning, but not limited to, product performance or reliability. The failure to carefully follow Installation Package guidelines set forth above will likewise void any and all warranty, **including the implied warranties of merchantability and fitness for a particular purpose.** Delco Remy® is a registered trademark of General Motors Corporation, licensed to Remy Inc., Anderson, IN 46013.