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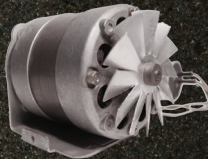
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# STARTER MOTOR

INSTALLATION INSTRUCTIONS

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# STARTER MOTOR INSTALLATION INSTRUCTIONS

## CAUTION: READ BEFORE PROCEEDING.

These instructions provide a “general procedure” to the removal and installation of the starter. Refer to the vehicle manufacturer’s repair manual for detailed instructions. Check and follow all safety precautions outlined in the vehicle manufacturer’s repair manual. If you are unfamiliar with the removal and installation of the starter it is strongly recommended you seek a qualified service center.

**Failure to follow the vehicle manufacturer’s repair manual will void the manufacturer’s starter warranty.**

**WARNING:** Disconnect the battery cables starting with the negative cable prior to removal of starter to eliminate ELECTRICAL SHOCK HAZARD. ELECTRIC SHOCK MAY RESULT IN PROPERTY DAMAGE, SERIOUS PHYSICAL INJURY AND POSSIBLY EVEN DEATH.

## BEFORE REPLACING THE STARTER

1. Verify the starter is non-functional. The starter can be tested using a carbon pile load tester, a voltmeter and clamp-on style ammeter.
2. Verify the batteries are fully charged and battery terminals are clean and firmly in place. Check battery cable for any corrosion or tears in the insulation.
3. Verify all fuses are good.
4. Check all wiring connections leading to the starter for discolouration, cracks, or evidence or overheating. If any of these symptoms are present, connections must be replaced. Failure to do so may result in starter or vehicle damage.

## REMOVAL INSTRUCTIONS

1. Make sure ignition is OFF and remove the negative (ground) battery cable from the battery.
2. Disconnect all wire connections and plugs from the starter noting their location and identifying each connector with a piece of tape. This will make installation of the replacement starter easier.
3. Loosen the starter mounting bolts. Note the location of any shims, heat shields, and support brackets. This will also make installation of the replacement starter easier.
4. Remove mounting bolts, tilt or rotate starter to clear flywheel and transmission housing and remove starter from vehicle, noting

position of any shims. Shims may be stuck to either the engine mounting or the mounting pads of the starter.

5. Inspect starter drive teeth for damaged pinions. If drive is damaged, it is extremely important that you inspect the flywheel or ring gear for broken or worn teeth. A broken or worn ring gear must be replaced or it will damage the new starter and void manufacturer’s warranty.

## INSTALLATION INSTRUCTIONS

1. Check and compare the original starter to the replacement starter. All mounting holes, wire and plug connectors, and hardware should be compatible. Some vehicle manufacturer’s use more than one starter manufacturer. Slight differences in the starter’s appearance will not affect the performance of the starter.
2. Install the replacement starter reusing all mounting hardware from the original starter. Refer to vehicle repair manual and torque nuts and bolts to the manufacturer’s required specification.
3. Reconnect all electrical connections of the replacement starter to the correct terminals. It is important that all connectors be clean and fit properly.
4. Reconnect battery cable, connecting positive connections first.
5. Place the removed starter in the replacement starter box for proper core return.

