

Tech Sheet 001

Starter removal and installation instructions

Removal instructions:

- Disconnect the negative battery cable from the vehicle.
- Identify each wire and note the connection locations on the starter.
- Disconnect and remove the battery cable from the starter.
- Disconnect and remove all other wires from the starter.
- Loosen all mounting hardware.
- While supporting the starter, remove all mounting bolts that secure it to the engine/transmission bell housing, and remove the starter from the vehicle.
- Inspect the flywheel ring gear or flex plate through the starter opening for tooth damage or warpage. Replace if necessary.
- Inspect the sandwich plate for damage if fitted and replace if necessary.

Installation instructions:

- Clean the battery posts and terminals of both battery cables and verify the the battery is fully charged.
- Compare the replacement starter to the original starter if you have one.

- If clockable, remove the 5mm or 6 mm cap head bolts and rotate the Roadrunner starter front mounting plate to the required position. Refit and tighten the cap head bolts to a torque of 4 ft/lb's (5mm) or 7 ft/lb's (6mm). Loctite may be used if necessary.
- Check that the starter is a “snug” fit in the sandwich plate if fitted.
- Test fit the Roadrunner starter and follow the instructions on Tech sheet 003 and Tech sheet 004 if applicable and shim as required. Observe vent and drain position and seal off if required.
- Install the replacement starter onto the engine or into the bellhousing and tighten the mounting bolts to manufacturers specifications. If using cap head bolts supplied, tighten to a torque of 40 ft/lb's (3/8”) or 36 ft/lb's (10mm).
- Position the battery cable and the previously removed wires to the required location and reconnect. It may be necessary to re-route, lengthen or shorten cables and wires and to change terminal hardware. Do not over tighten the 8mm battery stud (or 10mm in some industrial applications) as this can twist the internal contact and cause premature failure. If starter wiring is to be changed or differs on the Roadrunner starter, see Tech sheet 002.
- Reconnect the battery cable to the battery.
- Check the starter for proper operation.