

Technical bulletin

TB-023

If engine fails to crank over, check the following using a volt meter:

1. Connect the red wire of the voltmeter to the battery, '+' terminal.
2. Connect the black wire of the voltmeter to the battery terminal stud on the starter solenoid. Make sure you make contact with stud, not the cable terminal or nut.
3. Crank the engine. The voltage must not exceed 0.5 volts. If the voltage is higher than 0.5 volts, a problem exist in the wiring or connections and must be rectified.

If the starter appears noisy, or fails to engage with the ring gear, the following points can be the cause the problem:

1. This starter has 4 fixing holes, but uses only 3 to attach the unit to the vehicle.
2. Note which 3 holes are used when removing the old starter motor. (see drawing: A,B and C or A,B and D)
3. When using threaded fixing hole 'C', ensure location dowel / bushing is installed into 'C' so the fixing bolt runs through the center of the dowel / bushing.
4. When using threaded fixing hole 'D', ensure location dowel / bushing is installed into 'D' so the fixing bolt runs through the center of the dowel / bushing.
5. Failure to install the dowel / bushing can cause damage to the ring gear and starter drive.

