

DIAGNOSIS AND TESTING > STARTING SYSTEM > PINPOINT TEST(S) > PINPOINT TEST B : UNUSUAL STARTER NOISE

Unusual Starter Noise

Normal Operation and Fault Conditions

Correct starter operation relies on correct mounting of the starter to the engine, alignment of the starter ring gear to the flexplate and correct functioning of the starter assembly (internal gears, bearings).

Possible Sources

- Engine
- Starter motor
- Starter motor mounting

Visual Inspection and Diagnostic Pre-checks

- Inspect the starter motor.
- Inspect the starter motor mounting.

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B1 CHECK THE STARTER MOUNTING

Inspect the starter mounting bolts for looseness.

Is the starter motor mounted correctly?

Yes	GO to B2
No	INSTALL the starter motor correctly. REFER to: Starter Motor .

B2 CHECK FOR STARTER NOISE

Ignition OFF.

Connect a remote starter switch between the starter solenoid C197A-1 ("B" terminal) and C197C-1 ("S" terminal).

Engage the starter and verify the noise is due to starter operation.

Is the noise due to the starter engagement?

Yes	REFER to: Starter Motor Drive Gear and Flywheel Ring Gear Inspection .
No	REFER to: ENGINE to continue diagnosis.