

- **NO START—STARTER MOTOR GEAR TEETH DAMAGE—VEHICLES EQUIPPED WITH 7.3L DIESEL ENGINE—MEXICO PRODUCED VEHICLES ONLY**
- **ENGINE—7.3L DIESEL—NO START—STARTER MOTOR GEAR TEETH DAMAGE—MEXICO PRODUCED VEHICLES ONLY**
- **NOISE—STARTER MOTOR GEAR TEETH DAMAGE—MEXICO PRODUCED VEHICLES ONLY**

**Article No.
03-21-44**

FORD: 1999-2001 F-450

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ISSUE

Some vehicles equipped with the 7.3L Diesel engine, may exhibit a no crank condition or exhibit excessive noise when cranking. This may be due to starter motor gear damage. At times the gear teeth may be broken and do not engage the flywheel.

ACTION

Verify condition. Replace the starter motor with a new design starter motor. Refer to the following Service Information for details.

SERVICE PROCEDURE

Some 1999-2001 F-450 vehicles equipped with a 7.3L Diesel engine may exhibit a no crank condition or noise while trying to start the engine coming from the flywheel area. To correct, replace the starter motor with Service Part Number 2C3Z-11002-AARM. For 1999 model year trucks, also replace the Starter Motor Harness 2C3Z-14300-CA, due to the original starter motor harness will not fit the new Service Replacement Starter. If the flywheel is damaged, replace with Part Number 1C3Z-6375-AA.

Starter Motor Harness Removal

1. Remove the starter motor harness terminals from battery (-) and (+) post.
2. Remove the retainers from the radiator support and engine block stud.
3. Remove the retainer nut from the engine mount.

4. Remove the nuts (B+ and S) from the starter motor solenoid.

Installation Of The Starter Motor Harness

1. Insert starter motor harness large eyelet onto top solenoid stud (B+) and tighten the nut to 12.0 +/- 1.8 N•m (106 +/- 16 Lb-in).
2. Insert starter motor harness small eyelet onto lower solenoid stud (S) and tighten the nut to 3.2 +/- 0.5 N•m (28 +/- 4 Lb-in).
3. Align and seat the starter motor harness retainer to engine mount.
4. Route the starter motor harness under engine mount toward front of engine.
5. Tighten the metal retainer nut 30.0 +/- 4.5 N•m (22 +/- 3 Lb-ft) to engine block stud.
6. Route the starter motor harness up fender well to battery.
7. Align and seat two (2) retainers to battery tray.
8. Tighten the starter motor harness terminal to battery (B+) post 7.0 +/- 1.1 N•m (62 +/- 10 Lb-in).
9. Route the starter motor harness along the radiator support.
10. Tighten the starter motor harness terminal to battery (-) post 7.0 +/- 1.1 N•m (62 +/- 10 Lb-in).

NOTE: The information in Technical Service Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers". Do not assume that a condition described affects your car or truck. Contact a Ford, Lincoln, or Mercury dealership to determine whether the Bulletin applies to your vehicle.

Article No. 03-21-44 Cont'd.

PART NUMBER	PART NAME
2C3Z-11002-AARM	Starter Motor
2C3Z-14300-CA	Starter Motor Wiring Harness
1C3Z-6375-AA	Flywheel

OTHER APPLICABLE ARTICLES: NONE

SUPERSEDES: 02-9-4

WARRANTY STATUS: INFORMATION ONLY