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Remanufactured Automotive Electronics Components

TECHNICAL BULLETIN

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Make: Ford

Model: EF 4.0L

Subject: Hard to start

TEST: Inspect the crank angle sensor inductive pattern on an oscilloscope at PCM pins 21 and 22.

FAULT: The starter motor armature commutator is dirty causing inductive noise to be induced into the crank angle sensor wiring. This results in the loss of the missing tooth signal (number 1 TDC best seen on an oscilloscope) generated by crank angle sensor.

Remove the starter motor & re-cut the starter motor commutator.

Note: Manual transmission vehicles can be roll started.

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