

# *Injectronics*

## **TECHNICAL BULLETIN**

### **FORD – FALCON – EF**

#T0114

**Make: Ford**

**Model: Falcon 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.