Ignition System - Diagnostics Manual Correction

Article No. 89-5A-4

EEC IV - TFI IV - IGNITION SYSTEM - REVISED TIMING PROCEDURES AND DIAGNOSTICS - SHOP MANUAL CORRECTION

FORD: 1984-86 LTD 1984-88 EXP 1984-88 ESCORT THUNDERBIRD, MUSTANG, TEMPO, AND CROWN VICTORIA

LINCOLN-MERCURY: 1984-86 CAPRI, MARQUIS 1984-87 LYNX 1984-88 COUGAR, TOPAZ, GRAND MARQUIS, CONTINENTAL, MARK VII, AND LINCOLN TOWN CAR

LIGHT TRUCK: 1984-88 RANGER, BRONCO II, ECONOLINE, BRONCO, AND F-SERIES 1986-88 AEROSTAR

ISSUE: The Ignition Coil and Secondary Wire Test Steps on pages 13-51 and 13-65 of the 1989 Engine Emissions Diagnosis Shop Manual, Volume H, have been revised. The new service information directs technicians to use a substitute coil instead of a resistance test.

ACTION: Refer to this TSB for revised ignition coil and secondary wire test information.

OTHER APPLICABLE ARTICLES: None

WARRANTY STATUS: “INFORMATION ONLY”

OASIS CODES: 680000

1989

Ignition Systems, Timing Procedures and Diagnostics

13-51
Ignition Coil and Secondary Wire

TFI-IV

And

TFI With CCD

Part 2

Test 7

1989

13-52  Ignition Systems, Timing Procedures and Diagnostics
**EEC-IV - TFI-IV**  
**TFI-IV And TFI-IV With CCD**  
**Part 2**  
**Test 8**  
**1989**  

Ignition Systems, Timing Procedures and Diagnostics

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### Test 8 Results and Actions

<table>
<thead>
<tr>
<th>TEST STEP</th>
<th>RESULT</th>
<th>ACTION TO TAKE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Disconnect pin-in-the connector near the distributor.</td>
<td>Yes</td>
<td>CHECK PIP and ignition ground wires for continuity. SERVICE as necessary. If CKGO to EEC-IV Diagnostics.</td>
</tr>
<tr>
<td>2. Crank engine.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Turn ignition switch to OFF position.</td>
<td>No</td>
<td>GO to Test 3.</td>
</tr>
<tr>
<td>4. Was spark present?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Note:** DO NOT HOLD THE COIL while performing this test. Dangerous voltages may be present on the metal laminations as well as the high voltage tower.

**CAUTION:**

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![ Coil and Spark Tester Diagram](image)

**Coil and Spark Tester Diagram**

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1. Disconnect ignition coil connector. Inspect for dirt, corrosion and damage.
2. Connect the ignition coil connector to a known good ignition coil.
3. Connect one end of a known good secondary wire to the spark tester. Connect the other end to the known good ignition coil.
5. Turn ignition switch to OFF position.
6. Was spark present?

**Note:** MEASURE resistance of the ignition coil wire (from vehicle). If greater than 7,000 ohms per foot. If OK, REPLACE ignition coil.

**Action:** RECONNECT coil connector to the vehicle coil and spark tester to vehicle secondary wire and GO to Test 9.
Ignition Coil And Secondary Wire

TFI-IV

Closed Bowl

Distributor

Part 2

Test 8

1989

13-66

Ignore Systems, Timing Procedures and Diagnostics

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**TEST STEP**  
1. Disconnect the in-line connector near the TFI module.  
2. Crank the engine.  
3. Was spark present?

**RESULT**  
Yes

**ACTION TO TAKE**  
Check PIP-A and IGN GND signal wires for continuity to EEC. SERVICE as necessary.  
If OK, GO to EEC-IV Diagnostics.

No

**ACTION TO TAKE**  
GO to Test 10.