

# 3.0L ENGINE—MIL ON WITH DTC P0351 THROUGH P0356—MULTIPLE COIL PRIMARY CIRCUIT—BUILT ON OR BEFORE 10/03/2005

TSB 10-18-10

**FORD:**  
2005-2006 Escape

**MERCURY:**  
2005-2006 Mariner

This article supersedes TSB **09-2-6** to add a production fix date, update the Service Procedure, Part List and Service Labor Time Standards.

## ISSUE

Some 2005-2006 Escape and Mariner vehicles built on or before 10/3/2005, equipped with a 3.0L engine may exhibit a malfunction indicator lamp (MIL) on with two or more diagnostic trouble codes (DTCs) for coil on plug (COP) primary circuit faults (P0351 through P0356). This may be due to the COP and powertrain control module (PCM) reacting to radio frequency interference from the spark plugs.

## ACTION

Follow the Service Procedure to correct the condition.

## SERVICE PROCEDURE

1. Check for DTC's stored in the PCM.
  - a. If codes P0351 through P0356 codes are stored in the PCM continue to Step 2.
  - b. If codes are present other than P0351 through P0356, do not continue with this article. Refer to the Powertrain Control/Emissions Diagnosis (PC/ED) manual for normal diagnostic.
2. Replace all six (6) COPs. Refer to Workshop Manual (WSM), Section 303-01B.
3. Perform a PCM internal coil driver functionality test by running the Oscilloscope Escape PCM Driver Test (available on Integrated Diagnostic System (IDS) version B58 or later).
4. Using IDS, select:
  - a. Toolbox.

- b. Oscilloscope tools.
- c. Escape PCM Driver Test - follow on screen instructions.

## NOTE

THE OSCILLOSCOPE TEST TO CHECK PCM INTERNAL COIL DRIVER FUNCTIONALITY MUST BE PERFORMED PRIOR TO REPLACING THE PCM.

5. If the coil driver functionally test fails, replace the PCM. Refer to WSM, Section 303-14B.

| PART NUMBER     | PART NAME                              |
|-----------------|----------------------------------------|
| 2M2Z-12029-AC   | Ignition Coil Asy                      |
| 5L8Z-12A650-AAD | PCM (2005 MY Built 8/2/2004 and Later) |
| 5L8Z-12A650-LH  | PCM (2005 MY)                          |

**WARRANTY STATUS:** Eligible Under Provisions Of New Vehicle Limited Warranty Coverage And Emissions Warranty Coverage  
**IMPORTANT:** Warranty coverage limits/policies are not altered by a TSB. Warranty coverage limits are determined by the identified causal part.

| OPERATION | DESCRIPTION                                                                                                                                     | TIME     |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 101810A   | 2005-2006 Escape, Mariner 3.0L DOHC: Check DTCs, Replace All Six (6) COPs, Perform PCM Driver Test (Do Not Use With Any Other Labor Operations) | 2.2 Hrs. |

**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. Warranty Policy and Extended Service Plan documentation determine Warranty and/or Extended Service Plan coverage unless stated otherwise in the TSB article. The information in this Technical Service Bulletin (TSB) was current at the time of printing. Ford Motor Company reserves the right to supersede this information with updates. The most recent information is available through Ford Motor Company's on-line technical resources.

## TSB 10-18-10 (Continued)

|         |                                                                                                                                                                                                                   |          |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 101810B | 2005-2006 Escape,<br>Mariner 3.0L DOHC:<br>Check DTCs, Replace All<br>Six (6) COPs, Perform<br>PCM Driver Test, Replace<br>PCM, And Reprogram The<br>PATS Keys (Do Not Use<br>With Any Other Labor<br>Operations) | 2.6 Hrs. |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|

### DEALER CODING

| BASIC PART NO. | CONDITION<br>CODE |
|----------------|-------------------|
| 12A650         | 42                |