

## **Engine - MIL ON/DTC's P2000-P2008/P2015/P2020 Set**

TSB 06-7-10

04/17/06

MIL ON WITH DTC P2004 THROUGH P2008, P151A,  
P2015, P2020 - 4.6L 3V

FORD:

2005-2006 Mustang

2006 Explorer

2007 Explorer Sport Trac

MERCURY:

2006 Mountaineer

This article supersedes TSB 05-25-15 to update the vehicle model years.

### **ISSUE**

Some 2005-2006 Mustang GT, 2006 Explorer 4dr/Mountaineer and 2007 Explorer Sport Trac vehicles may exhibit the malfunction indicator lamp (MIL) on, with diagnostic trouble codes (DTCs) P2004 through P2008, P151A, P2015, and P2020. All of these codes are associated with the charge motion control valve (CMCV), actuator motor, and/or linkage concerns.

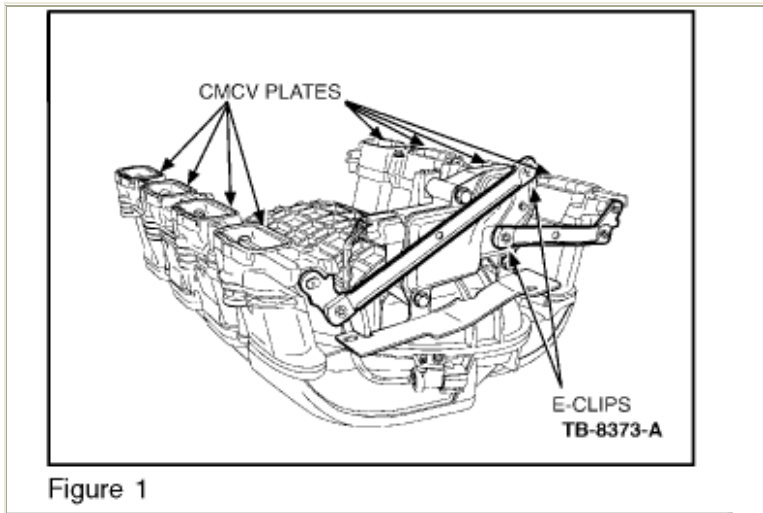
### **ACTION**

Refer to the following Service Procedure to determine if a CMCV Actuator Kit should be installed.

### **SERVICE PROCEDURE**

1. Does the vehicle exhibit DTC P2004, P2005, P2006, and/or P2007 (stuck CMCV motor/linkages)?
  - a. If so, visually inspect CMCV linkages to ensure they are free of interference from improper wire routings or foreign objects. If there is interference, resolve interference as needed. If there is no interference or disconnected/damaged wiring to CMCV actuator proceed to Step 2.
  - b. If not, proceed to Step 2.
2. Remove [intake manifold](#) from engine as outlined in the Workshop Manual, Section 303-01. Position the intake manifold on a clean flat work surface, with bottom side up as shown in the CMCV Actuator Kit instruction sheet. Take care to prevent debris from entering the runner ports.

**CAUTION DO NOT REST THE MANIFOLD ON THE [INTAKE MANIFOLD](#) FLANGE, AS IRREPARABLE DAMAGE MAY OCCUR TO THE CMCV PLATES.**



**NOTE VISUALLY INSPECT THAT ALL CMCV PLATES ARE INTACT. BENT PLATES OR OTHERWISE DAMAGED COMPONENTS WILL REQUIRE ENTIRE MANIFOLD REPLACEMENT (REFER TO FIGURE 1 IN CMCV ACTUATOR KIT INSTRUCTION SHEET).**

3. Disconnect the CMCV linkages from actuator motor by removing the two (2) clips (Figure 1). Discard clips.
4. Rotate each CMCV shaft (right hand and left hand) by hand, to verify that the system does not stick or bind. The shafts should rotate freely and any sticking or binding will require replacement of the entire [intake manifold](#).
5. If the components inspected in Steps 1, 2, and 3 are OK, then replace CMCV actuator motor by following procedure included in the service kit.

PART NUMBER	PART NAME
5R3Z-9J559-AA	CMCV Actuator Kit (Mustang)
6L2Z-9B742-A	CMCV Actuator Kit (Explorer/Mountaineer/Sport Trac)

**WARRANTY STATUS: Eligible Under Provisions Of New Vehicle Limited Warranty Coverage**

OPERATION	DESCRIPTION	TIME
060710A	2005-2006 Mustang 4.6L 3V: Inspect CMCV plates, Replace <a href="#">Intake Manifold</a> , Includes Time To Check For Diagnostic Trouble Codes, Remove and Install <a href="#">Intake Manifold</a> (Do Not Use With 12650D, 9280A, 9424A, 9531A, 9424A, 9926A, 12650D24, 12650D35)	1.8 Hrs.

060710B	2005-2006 Mustang 4.6L 3V: Inspect CMCV plates, Replace CMCV, Includes Time To Check For Diagnostic Trouble Codes, Remove and Install Intake Manifold (Do Not Use With 12650D, 9280A, 9424A, 9531A, 9424A, 9926A, 12650D24, 12650D35)	1.7 Hrs
060710C	2006 Explorer, Mountaineer 2007 Explorer Sport Trac 4.6L 3V: Inspect CMCV plates, Replace <u>Intake Manifold</u> Includes Time To Check For Diagnostic Trouble Codes, Remove and Install <u>Intake Manifold</u> (Do Not Use With 12650D, 9280A, 9424A, 9531A, 9424A, 9926A, 12650D24, 12650D35)	1.9 Hrs.
060710D	2006 Explorer, Mountaineer 2007 Explorer Sport Trac 4.6L 3V: Inspect CMCV plates, Replace CMCV, Includes Time To Check For Diagnostic Trouble Codes, Remove and Install Intake Manifold (Do Not Use With 12650D, 9280A, 9424A, 9531A, 9424A, 9926A, 1650D24, 12650D35)	1.8 Hrs.

**DEALER CODING**

BASIC PART NO.	CONDITION
9G730	01