

Subject: MIL COMES ON WITH DTC P2006 / VARIABLE TUMBLE SHUTTER VALVE CAN- NOT COMPLETELY CLOSE	Bulletin No: 01-024/08
	Last Issued: 4/11/2008

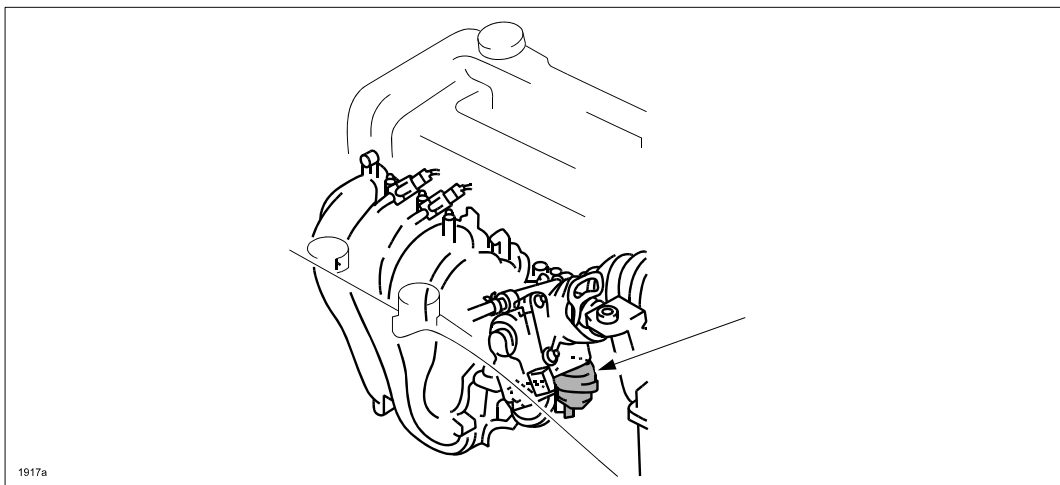
APPLICABLE MODEL(S)/VINS

2004-2008 Mazda3 vehicles (2.3L) with VINs lower than JM1 BK**** ** 872056 (produced before December 14, 2007)

2006-2008 Mazda5 vehicles with VINs lower than JM1 CR**** ** 308293 (produced before December 14, 2007)

DESCRIPTION

On some vehicles, the MIL may come on with DTC P2006 stored in memory because the variable tumble shutter valve (VTSV) gets stuck causing the valve not to close enough. This is due to product variation of the actuator and lever where the clearance between them is not enough for smooth movement. The production process of the actuator has now been improved.

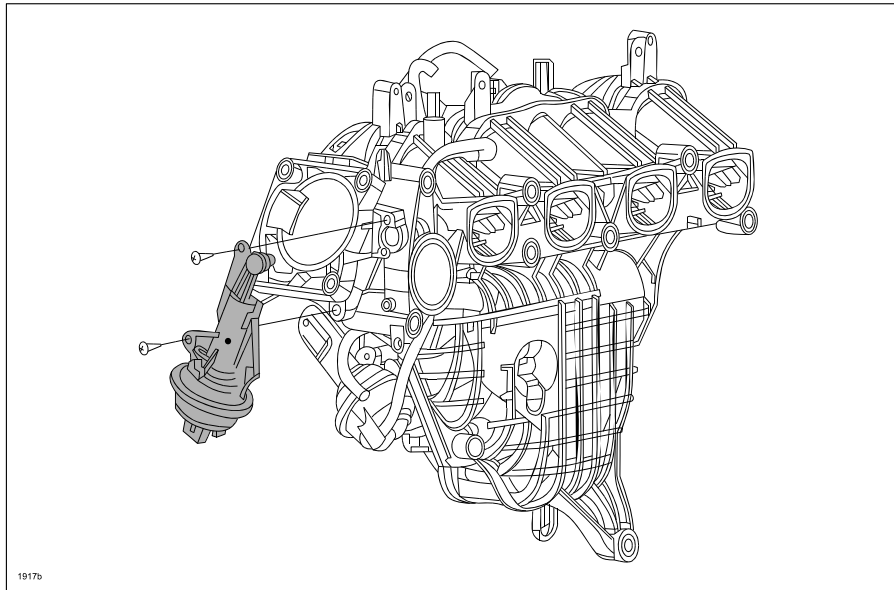


Customers having this concern should have their vehicle repaired using the following repair procedure.

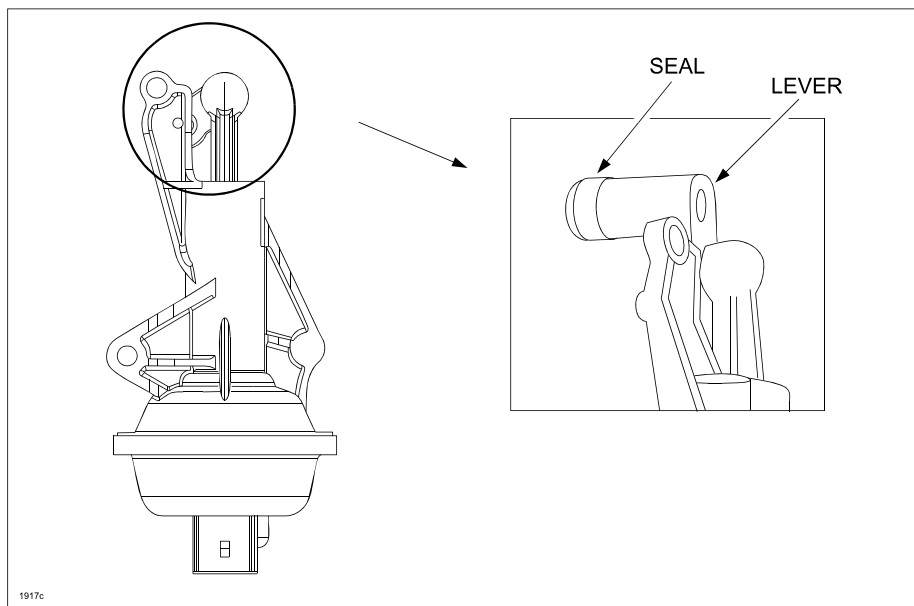
REPAIR PROCEDURE

1. Verify concern.
2. Record customer's radio presets.
3. Disconnect the negative battery cable.
4. Remove the air cleaner cover and case along with the air hose disconnected from the throttle body. Refer to MS3 online instructions or Workshop Manual section 01-13 INTAKE AIR SYSTEM REMOVAL/INSTALLATION.

5. Remove the bottom screw from the VTSV actuator.
6. Remove the four bolts from the throttle body and carefully move it out of the way to gain access to the top bolt for the VTSV actuator.
7. Remove the top screw from the VTSV actuator, then slowly remove the VTSV actuator with lever and seal assembled.



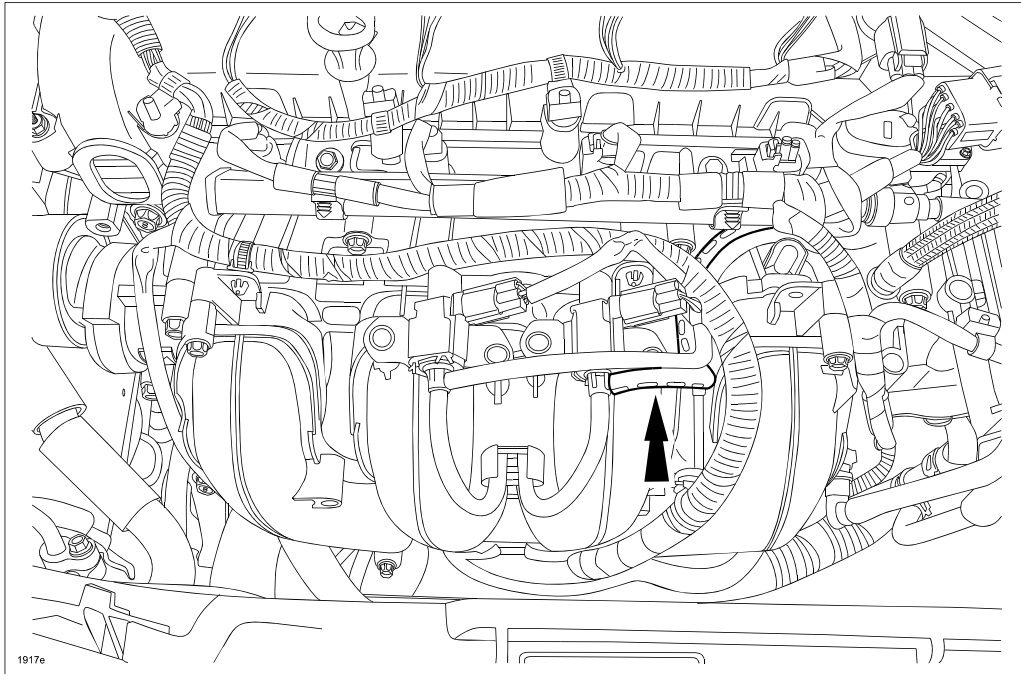
CAUTION: DO NOT pry the lever out of the intake manifold. If the lever does not want to come out of the intake manifold, separate the lever from the VTSV actuator at the ball socket with a screwdriver. Then remove the lever from the intake manifold by moving it up and down and pulling out on it.



CAUTION: If the old seal on the lever is left in the intake manifold, remove it using a pick or pin, being careful not to scratch the interior walls.

8. Disconnect the vacuum hose and electrical connector from the VTSV actuator.

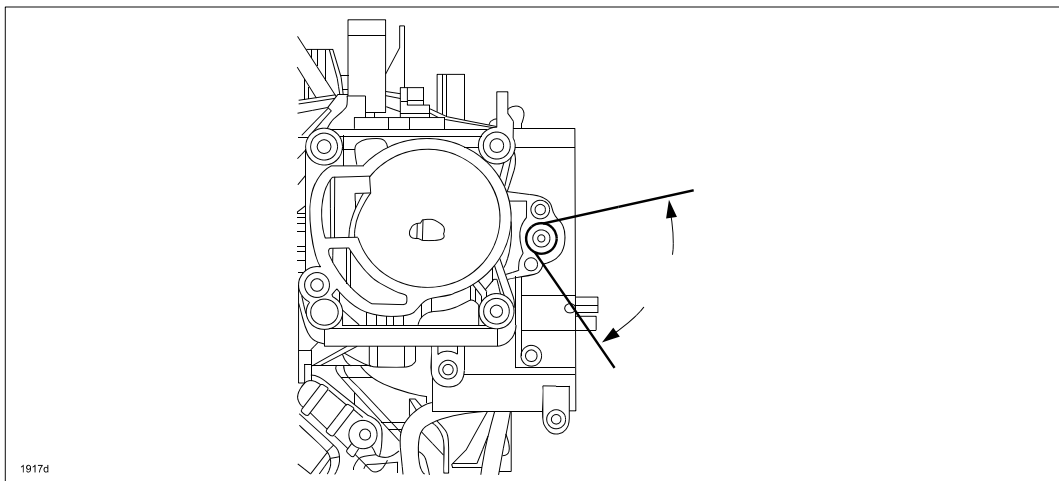
NOTE: Carefully disconnect the vacuum hose from the top of the intake manifold to make it easier to disconnect the vacuum hose from the VTSV actuator.



9. Before installing the new VTSV actuator, install the lever from the old actuator without the seal to confirm that it can move all the way between the stops.

NOTE:

- If the lever does not move all the way between the stops, remove it and reinstall it at a different angle. The lever must move all the way between the stops.
- When the lever moves between the stops, move it to the top of the range and remove it.



10. Apply mild soap around the seal at the actuator lever, then install a new VTSV actuator on the intake manifold with the lever at the top of the range.
11. Install the two bolts and tighten them to mount the VTSV actuator.
Tightening torque: 2.8 - 3.8 N•m (2.1 - 2.8 ft•lbf)
12. Connect the vacuum hose and electrical connector to the VTSV actuator.
NOTE: Connect the vacuum hose to the top of the intake manifold if disconnected.
13. Verify the mounting surface is clean, then install the throttle body with the four bolts and tighten them to mount the throttle body.
Tightening torque: 8.0 - 11.5 N•m (6 - 8 ft•lbf)
14. Connect the air hose to the throttle body and install the air cleaner case and cover. Refer to MS3 online instructions or Workshop Manual section 01-13 INTAKE AIR SYSTEM REMOVAL/INSTALLATION.
15. Connect the negative battery cable.
16. Enter customer's radio presets.
17. Verify repair.

PART(S) INFORMATION

Part Number	Description	Qty.	Note
L3Y4-20-170	Shutter Valve Actuator	1	L3Y4-20-170 includes a lever and a seal assembled to LF01-20-170

WARRANTY INFORMATION

NOTE:

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair. Coverage for this repair can be found under the New Vehicle Warranty – Powertrain.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	6X
Damage Code	97
Part Number Main Cause	L3Y4-20-170
Quantity	1
Operation Number / Labor Hours:	XXD0RXRX / 1.2 Hrs.(Mazda3); 1.0 Hrs (Mazda5)