

FORD:

2010-2011 Fusion
2009-2011 Escape

MERCURY:

2010-2011 Milan
2009-2011 Mariner

This article supersedes TSB 11-11-18 to update the Service Procedure and Part List.

ISSUE

Some 2009-2011 Escapes, Mariners, 2010-2011 Fusion and Milan vehicles equipped with a 3.0L engine and the engine was built on or before 3/1/2011 may exhibit a malfunction indicator lamp (MIL) on with diagnostic trouble codes (DTCs) P0011, P0012, P0021, P0022 and/or P034X.

ACTION

Follow the Service Procedure steps to correct the condition.

SERVICE PROCEDURE

1. Verify engine build date. Refer to Workshop Manual (WSM), Section 303-01B.
 - a. If the engine built date is after 3/1/2011, do not continue with this procedure. Refer to the Powertrain Control/Emissions Diagnosis (PC/ED) Manual for normal diagnostics.
 - b. If the engine built date is on or before 3/1/2011, proceed to Step 2.
2. Remove both valve covers. Refer to WSM, Section 303-01B.
3. Remove both front intake and both front exhaust camshaft thrust bearing caps. Refer to WSM, Section 303-01B.
 - a. If the camshaft thrust bearing cap(s) shows surface wear, proceed to Step 4. (Figures 1-2)

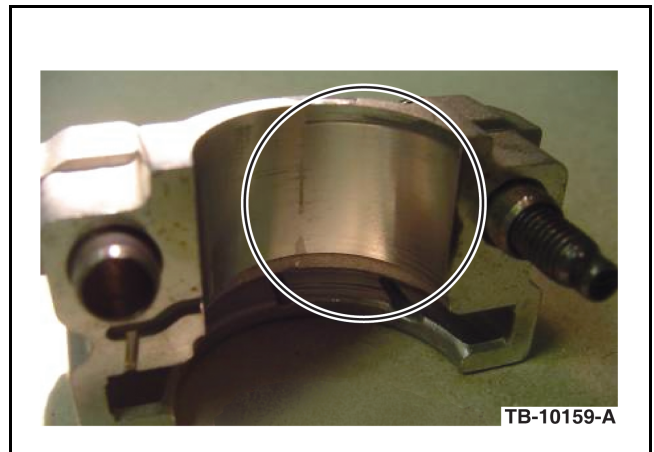


Figure 1 - Article 11-12-5

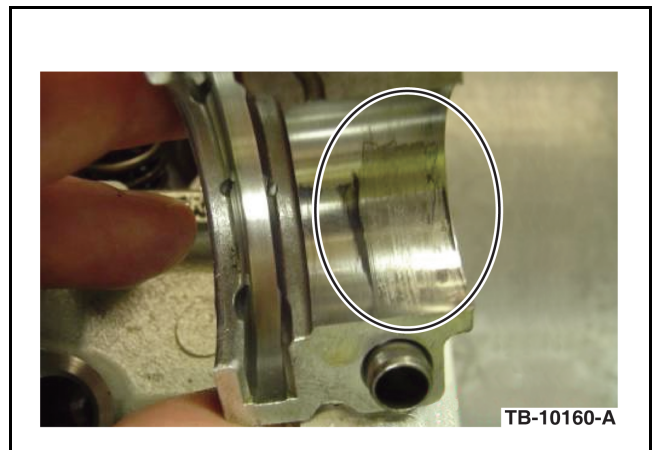


Figure 2 - Article 11-12-5

- (1) Wear in the thrust bearing cap could be the cause of the variable camshaft timing (VCT) setting DTCs due to oil leakage from excessive clearance in the cam bearing cap. This in turn will not allow enough oil to feed the VCT phaser for proper operation.

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 or Lincoln 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.

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- b. If the camshaft thrust bearing cap(s) does not exhibit any abnormal wear, re-assemble cap(s) to cylinder head, torque to 10 N•m (7.5 lb-ft) and proceed to Step 5. (Figure 3)

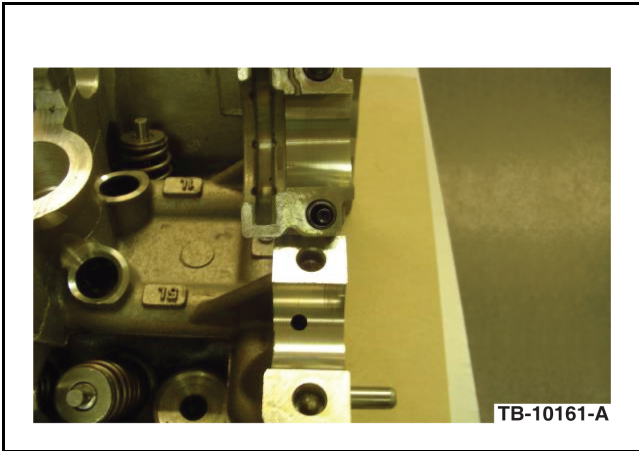


Figure 3 - Article 11-12-5

- (1) Slight polishing is normal and is not reason to replace the cylinder head. (Figure 3)
4. Inspect the camshaft that is under the effected worn cam thrust bearing journal for wear.
 - a. If the cylinder head only shows wear, replace the cylinder head(s) of the affected cap(s). Refer to WSM, Section 303-01B. (Figures 1-2)
 - b. If both the cylinder head and camshaft show wear. Replace cylinder head(s) and cam shaft(s) of the affected cap(s). Refer to WSM, Section 303-01B.
5. Replace both VCT solenoids. Refer to WSM, Section 303-14B.
 - a. If the vehicle has less than 48,000 km (30,000 miles), the intake gasket and spark plug well gaskets can be reused. Inspect and replace only if damage is visible.
 - b. If the vehicle has 48,000 km (30,000 miles) or more, replace the intake and spark plug well gaskets. In all cases, the valve cover perimeter gasket must be replaced.

PART NUMBER	PART NAME
3M4Z-6020-AA	Right Front Cover Gasket
9L8Z-9H486-B	Upper Intake Gasket
9L8Z-9439-A	Lower Intake Gasket
9L8Z-6C527-A	Gasket Cam Cover (2 Req)
9L8Z-6584-A	Cam Cover Gasket - RH
9L8Z-6584-B	Cam Cover Gasket - LH
AL8Z-6049-B	Cylinder Head Assy - LH
AL8Z-6049-A	Cylinder Head Assy - RH
4F1Z-6065-AB	Bolts - Cylinder Head (8 Req)
XW4Z-9448-AD	Gaskets - Exhaust Manifold (2 Req)
9L8Z-6M280-B	VCT Solenoid (2 Req)
9L8Z-6051-A	Cylinder Head Gasket - RH
9L8Z-6051-B	Cylinder Head Gasket - LH
9L8Z-8C387-B	Coolant Pump
9L8Z-8527-A	Coolant Pump O-ring
3M4Z-6020-BA	Front Cover Center Gasket
3M4Z-6020-CA	LH Front Cover Gasket
W701706-S440	Exhaust Nut (6 Req)
W712244-S300	Exhust Stud (6 Req)
F5RZ-6A340-B	Damper Bolt
F5AZ-6700-A	Front Crank Seal
9L8Z-6250-A	Camshaft - RH Intake
9L8Z-6250-B	Camshaft - LH Intake
9L8Z-6250-C	Camshaft - RH Exhaust
9L8Z-6250-D	Camshaft - LH Exhaust

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

OPERATION	DESCRIPTION	TIME
111205A	2009-2011 Escape, Mariner 3.0L: Inspect Thrust Bearing Caps And Replace Both VCT Solenoids (Do Not Use With Any Other Labor Operations)	2.1 Hrs.
111205A	2010-2011 Fusion, Milan 3.0L: Inspect Thrust Bearing Caps And Replace Both VCT Solenoids (Do Not Use With Any Other Labor Operations)	2.2 Hrs.

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111205B	2010-2011 Fusion, Milan 3.0L: Inspect Thrust Bearing Caps And Replace The Right Cylinder Head (Do Not Use With Any Other Labor Operations)	10.1 Hrs.	111205D	2010-2011 Fusion, Milan 3.0L: Inspect Thrust Bearing Caps And Replace The Right And Left Cylinder Heads (Do Not Use With Any Other Labor Operations)	12.9 Hrs.
111205B	2009-2011 Escape, Mariner 3.0L: Inspect Thrust Bearing Caps And Replace The Right Cylinder Head (Do Not Use With Any Other Labor Operations)	8.2 Hrs.	111205D	2009-2011 Escape, Mariner 3.0L: Inspect Thrust Bearing Caps And Replace The Right And Left Cylinder Heads (Do Not Use With Any Other Labor Operations)	11.0 Hrs.
111205C	2009-2011 Escape, Mariner 3.0L: Inspect Thrust Bearing Caps And Replace The Left Cylinder Head (Do Not Use With Any Other Labor Operations)	8.8 Hrs.	DEALER CODING BASIC PART NO. 6M280 CONDITION CODE 14		
111205C	2010-2011 Fusion, Milan 3.0L: Inspect Thrust Bearing Caps And Replace The Left Cylinder Head (Do Not Use With Any Other Labor Operations)	9.4 Hrs.			