

CHECK ENGINE LIGHT ILLUMINATED—DTCS P0300, P0301, P0302, P0303, P0304, P0305, P0306, P0307, P0308—NO DRIVEABILITY SYMPTOMS—BUILT ON OR BEFORE 11/30/2012

TSB 13-1-11

FORD:

2013 Mustang

This article supersedes TSB **12-12-8** to update the Service Procedure.

ISSUE

Some 2013 Mustang vehicles built on or before 11/30/2012 and equipped with a 5.0L engine and manual transmission may exhibit a Check Engine Light illuminated accompanied by any combination of diagnostic trouble codes (DTC) P0300, P0301, P0302, P0303, P0304, P0305, P0306, P0307 and/or P0308 stored in continuous memory only. Additionally, there will be no apparent driveability symptoms present and no DTCs present which are not listed.

ACTION

Follow the Service Procedure steps to correct the condition.

SERVICE PROCEDURE

1. Using IDS, perform self test on the powertrain control module (PCM) to check for both continuous memory diagnostic trouble codes (CMDTCs) and key on engine running (KOER) DTCs.
 - a. If any DTCs P0300-P0308 are present in KOER and/or a driveability concern, such as cylinder misfire, is present, this article does not apply. Refer to Powertrain Control/Emissions Diagnosis (PC/ED) manual for normal diagnostics.
 - b. If any DTCs P0300 - P0308 are present in continuous memory and there is no discernible driveability concern, verify if misfire conditions were at RPMs between 3500-4200 RPM, with a load of less than 0.25 using IDS OBD II freeze frame data and/or use IDS datalogger and view MFF_RPM, and MFF_LOAD PIDS (datalogger->modules->PCM).

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.

- (1) If these conditions were met then reprogram the PCM to the latest calibration using IDS release 82.02 and higher. This new calibration is not included in the VCM 2012.11 DVD. Calibration files may also be obtained at www.motorcraft.com.

- (2) If not proceed to Step 2.

2. Using IDS, perform the Misfire Monitor Neutral Profile Correction procedure.

WARRANTY STATUS: Eligible Under Provisions Of New Vehicle Limited Warranty Coverage And Emissions Warranty Coverage
Warranty/ESP coverage limits/policies/prior approvals 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.

TSB 13-1-11 (Continued)

| OPERATION | DESCRIPTION | TIME |
|------------------|---|-------------|
| 130111A | 2013 Mustang 5.0L Engine Manual Transmission (MT82): Check DTCs, Monitor Data, Reprogram The PCM If Necessary Includes Time To Perform The Misfire Monitor Neutral Profile Correction Procedures And Clear Codes After Repair (Do Not Use With Any Other Labor Operations) | 0.3 |

DEALER CODING

| BASIC PART NO. | CONDITION |
|-----------------------|------------------|
| RECALEM | CODE 04 |