

**FORD:**

2005-2007 Crown Victoria  
2006 Mustang, Mustang  
2004-2006 F-150, F-150  
2005-2006 E-350, E-450, F-Super Duty  
2006 F-53 Motorhome Chassis  
2006-2007 Explorer Sport Trac, Explorer

**LINCOLN:**

2005-2007 Town Car  
2006 Mark LT

**MERCURY:**

2005-2007 Grand Marquis  
2006-2007 Mountaineer, Mountaineer

This article supersedes TSB(s) **08-5-13**, **07-23-12** and **06-25-8** to update the Service Procedure.

**ISSUE**

Some 2004-2006 4.6L and 5.4L F-150 (excluding F-150 Heritage), 2006 5.4L Mark LT, 2005-2006 6.8L E-350 / E-450, 2005-2006 6.8L F-Super Duty (F-250 to F-550), 2006 6.8L F-53 Motorhome Chassis, 2006-2007 4.0L Explorer 4 dr, 2007 4.0L Explorer Sport Trac, 2006-2007 4.0L Mountaineer, 2006 4.0L Mustang, 2006 - 2007 4.6L 3V Explorer / Explorer Sport Trac / Mountaineer, 2006 4.6L 3V Mustang, and 2005-2007 Crown Vic / Grand Marquis / Towncar vehicles may exhibit one or more of the following symptoms: drive-away hesitation, loss of RPM on deceleration, difficulty starting, and/or idle RPM less than desired. Malfunction indicator lamp (MIL) may be illuminated with diagnostic trouble codes (DTCs) P0506 and/or P0505. These conditions may appear after battery disconnect, dead battery condition, or keep alive memory (KAM) reset. The symptoms may be due to engine deposits in the throttle leading to airflow less than desired.

**ACTION**

Follow the Service Procedure steps to correct the condition.

**SERVICE PROCEDURE**

1. Reprogram the powertrain control module (PCM) to the latest calibration using IDS release 53.9 and higher or 54.1 and higher. This new calibration is not included in the VCM 2008.1 DVD. Calibration files may also be obtained at [www.motorcraft.com](http://www.motorcraft.com). The calibration contains a sludge compensation strategy for the throttle body.
2. Turn the key off to re-initialize the PCM. This will allow the sludge compensation strategy to learn.
3. With the vehicle in park or neutral and A/C off, start vehicle and allow engine to reach normal operating temperature (greater than 170 °F (77 °C) coolant temperature). Run an additional 5 minutes to allow sufficient learning time.
4. While the engine is running, using IDS datalogger or equivalent, check the PID value of ETC\_TRIM.
  - a. If ETC\_TRIM value is 3.5 degrees, and/or DTC P115E is present, then replace the electronic throttle body (ETB), following Workshop Manual (WSM), Section 303-04B.
  - b. If ETC\_TRIM value is less than 3.5 degrees and DTC P115E is not present, but driveability concerns persist, the ETB is not the likely cause of the concern and replacement is not necessary. Continue with normal PC/ED diagnostics.

**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 08-18-2 (Continued)

### NOTE

VEHICLES EQUIPPED WITH A PCM AND TCM REQUIRE COORDINATED REPROGRAMMING. THIS COORDINATED REPROGRAMMING PROCEDURE MUST BE FOLLOWED EXACTLY AS OUTLINED BY THE IDS. FAILURE TO FOLLOW THE KEY CYCLE PROCEDURE WITHOUT WAITING FOR THE IDS PROMPTS, WILL CAUSE THE COORDINATED REPROGRAMMING TO FAIL. THE PCM WILL BE UPDATED BUT THE TCM WILL NOT BE UPDATED AND NEW FILES WILL NOT BE INSTALLED. IT IS CRITICAL TO FOLLOW THE IDS PROMPTS. SOME VEHICLES MAY REQUIRE SEVERAL DAYS OF DRIVING FOR THE TRANSMISSION TO FULLY ADAPT. REPROGRAMMING CONCERNS/ERRORS MAY BE CAUSED BY THE DATA LINK CONNECTOR (DLC) OR VEHICLE COMMUNICATION MODULE (VCM) BECOMING DISCONNECTED, LOW BATTERIES ON THE INTEGRATED DIAGNOSTIC SYSTEM (IDS) OR THE IDS GOING INTO ANY TYPE OF SLEEP MODE, OR LOW VEHICLE BATTERY VOLTAGE. IF THERE WAS AN INTERRUPTION DURING REPROGRAMMING, MAKE SURE THE ORIGINAL IDS SESSION THAT WAS CREATED FOR THE VEHICLE IS NOT DELETED. IF THE ORIGINAL VEHICLE SESSION IS NOT USED OR DELETED BEFORE THE MODULES ARE COMPLETELY REPROGRAMMED, FURTHER REPROGRAMMING ERRORS CAN OCCUR. THE MODULE RECOVERY PROCEDURE IS NO LONGER AVAILABLE AND IT IS CRITICAL THAT MODULE SWAPPING IS NOT PERFORMED FROM VEHICLE TO VEHICLE. TO REGAIN COMMUNICATION WITH A MODULE THAT HAS BEEN ERASED DURING REPROGRAMMING, RESUME THE ORIGINAL SESSION ONCE THE IDS IS RE-BOOTED.

PART NUMBER	PART NAME
9W7Z-9E926-B	Throttle Body - 4.0L, 4.6L 2V,
8L3Z-9E926-B	Throttle Body - 5.4L
9R3Z-9E926-B	Throttle Body - 4.6L 3V Mustang Built After 12/7/2005
6L2Z-9E926-C	Throttle Body - 4.6 3V Explorer, Sport Trac, Mountaineer
9C3Z-9E926-B	Throttle Body - 6.8L

**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
081802A	2004-2006 F-150 4.6L/5.4L, 2006 Mark LT, Econoline 350/450 6.8L, 2005-2006 F-Super Duty 6.8L, 2006-2007 Explorer/Mountaineer 4.0L, 2007 Explorer Sport Trac 4.0L, 2006 Mustang 4.0L, 2005-2007 Crown Victoria, Town Car, Grand Marquis: Check For DTCs And Reprogram The PCM, Includes Time To Monitor ETC_Trim Value, Authorization Decal NOT Necessary. (Do Not Use With 9926A, 12650D)	0.4 Hr.
081802A	2006-2007 Explorer/Mountaineer 4.6L, 2007 Explorer Sport Trac 4.6L: Check For DTCs And Reprogram The PCM And TCM, Includes Time To Monitor ETC_Trim Value, Authorization Decal NOT Necessary. (Do Not Use With 9926A, 12650D)	1.0 Hr.
081802B	2004-2006 F-150 5.4L, 2006 Mark LT: Check For DTCs And Reprogram The PCM, Includes Time To Monitor ETC_Trim Value, Replace Throttle Body, Authorization Decal Not Necessary. (Do Not Use With 9926A, 12650D)	0.9 Hr.

## TSB 08-18-2 (Continued)

081802B	2004-2006 F-150 4.6L: Check For DTCs And Reprogram The PCM, Includes Time To Monitor ETC_Trim Value, Replace Throttle Body, Authorization Decal Not Necessary. (Do Not Use With 9926A, 12650D)	0.8 Hr.	081802B	2006-2007 Explorer, Mountaineer 2007 Explorer Sport Trac 4.0L: Check For DTCs And Reprogram The PCM, Includes Time To Monitor ETC_Trim Value, Replace Throttle Body, Authorization Decal Not Necessary. (Do Not Use With 9926A, 12650D)	0.8 Hr.
081802B	2005-2006 Econoline 6.8L: Check For DTCs And Reprogram The PCM, Includes Time To Monitor ETC_Trim Value, Replace Throttle Body, Authorization Decal Not Necessary. (Do Not Use With 9926A, 12650D)	1.1 Hrs.	081802B	2005-2007 Crown Victoria, Town Car, Grand Marquis: Check For DTCs And Reprogram The PCM, Includes Time To Monitor ETC_Trim Value, Replace Throttle Body, Authorization Decal Not Necessary. (Do Not Use With 9926A, 12650D)	0.8 Hr.
081802B	2005-2006 F-Super Duty 6.8L: Check For DTCs And Reprogram The PCM, Includes Time To Monitor ETC_Trim Value, Replace Throttle Body, Authorization Decal Not Necessary. (Do Not Use With 9926A, 12650D)	0.9 Hr.	081802B	2006 Mustang 4.0L/4.6L: Check For DTCs And Reprogram The PCM, Includes Time To Monitor ETC_Trim Value, Replace Throttle Body, Authorization Decal Not Necessary. (Do Not Use With 9926A, 12650D)	0.8 Hr.
081802B	2006-2007 Explorer, Mountaineer 2007 Explorer Sport Trac 4.6L: Check For DTCs And Reprogram The PCM And TCM, Includes Time To Monitor ETC_Trim Value, Replace Throttle Body, Authorization Decal Not Necessary. (Do Not Use With 9926A, 12650D)	1.4 Hrs.			
<b>DEALER CODING</b>					
				BASIC PART NO. RECALEM	CONDITION CODE 04