

**FORD:**

2011-2013 Fiesta

2012-2013 Focus

**ISSUE**

Some 2011-2013 Fiesta and 2012-2013 Focus vehicles equipped with a DPS6 automatic transmission may exhibit an intermittent transmission clutch shudder on light acceleration from a stop.

**ACTION**

Follow the Service Procedure steps to correct the concern.

**SERVICE PROCEDURE**

1. Reprogram the powertrain control module (PCM)/transmission control module (TCM) module to the latest calibration using IDS release 84.01 or higher. Calibration files may also be obtained at [www.motorcraft.com](http://www.motorcraft.com).
2. Using IDS, select Powertrain, Transmission, Transmission Adaptive Learning and perform each of the following:
  - a. Transmission Range Sensor Adaptive Learning.
  - b. Shift Drum Adaptive Learning.
  - c. Clutch Adaptive Learning.

**NOTE**

PERFORMING THE ABOVE LISTED SERVICE ROUTINES WILL CLEAR ADAPTIVE STRATEGY.

3. Perform Adaptive Drive Cycle:
  - a. Focus vehicles refer to Workshop Manual (WSM), Section 307-01.
  - b. Fiesta vehicles refer to WSM, Section 307-11.

**NOTE**

FAILURE TO PERFORM ALL STEPS OF THE ADAPTIVE LEARNING ROUTINES AND THE DRIVE CYCLE MAY RESULT IN ERRATIC SHIFTS AND DRIVABILITY CONCERNS.

4. Is the concern of a clutch shudder condition eliminated?
  - a. Yes - release vehicle.
  - b. No - proceed to Step 5
5. Using IDS Datalogger, select the following parameters (PIDS):

**NOTE**

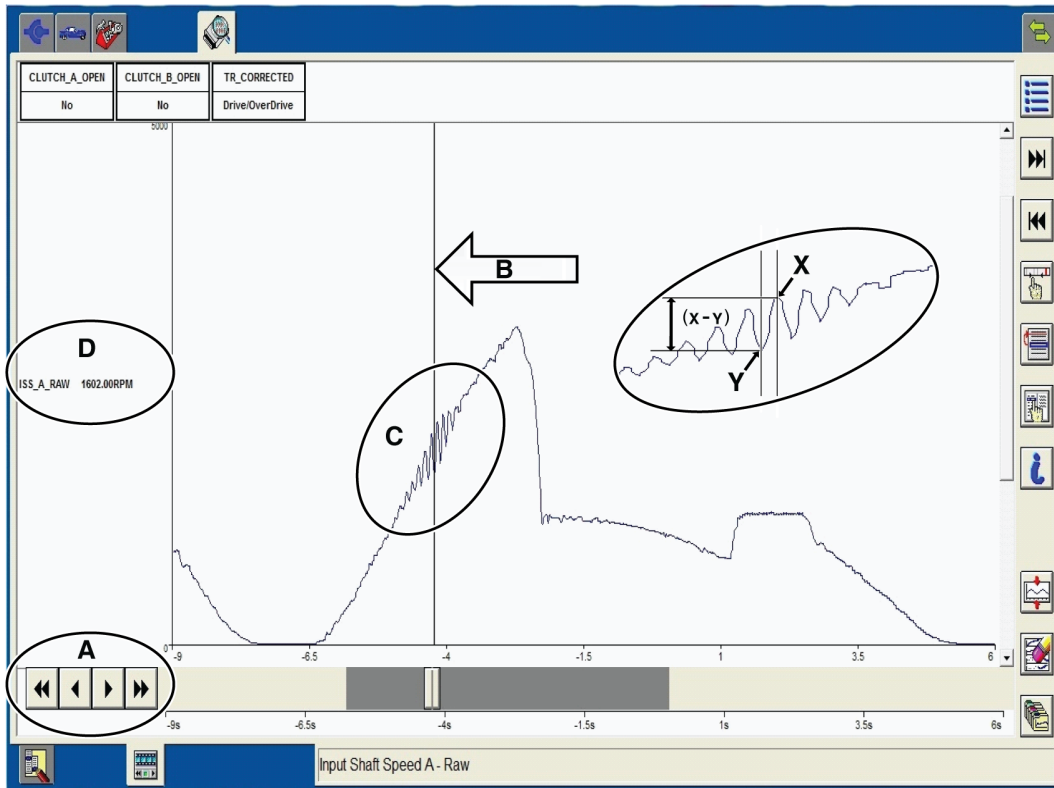
IT IS RECOMMEND THAT YOU USE A USB WIRED CONNECTION BETWEEN THE PC AND THE VCM WHEN PERFORMING THE FOLLOWING PROCEDURE TO ENSURE ACCURATE RESULTS.

- a. CLUTCH\_A\_OPEN
- b. CLUTCH\_B\_OPEN
- c. ISS\_A\_RAW
- d. ISS\_B\_RAW
- e. RPM TCM
- f. GEAR\_CMD
- g. APP1
6. Drive vehicle while monitoring APP1. With APP1 at 18-30%, record the clutch shudder event.
  - a. PID ISS\_A\_RAW is clutch apply for gears 1, 3, 5. PID ISS\_B\_RAW is clutch apply for gears 2, 4, 6, R.

**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.

## TSB 13-4-5 (Continued)

7. Using the playback feature within Datalogger (arrow controls A), position the playback time cursor (B) over the area of the shudder event (C) of the ISS\_A\_RAW PID. (Figure 1)



TB10390A

Figure 1 - Article 13-4-5

8. Using the single (one data step at a time) scroll bar arrow, position the playback cursor line over the high point of the reading and record RPM value (D) listed on the left hand side of ISS\_A\_RAW Parameter. Using the single scroll bar arrow again, carefully position the cursor over the next closest low point of the ISS\_A\_RAW parameter and record the RPM reading.
  - b. No - replace the clutch, inner input shaft seal and outer input shaft case seal.
    - (1) Focus vehicles refer to WSM, Section 307-01.
    - (2) Fiesta vehicles refer to WSM, Section 307-11.
9. Subtract the low RPM (Y) from the high RPM (X) reading (e.g. 2129 - 1602 = 527).
10. Is the result less than 250 RPM?
  - a. Yes - no further action required. Clutch engagement shudder is operating within expected limits and a clutch replacement will not improve operation.
11. Repeat Steps 2-3.

## TSB 13-4-5 (Continued)

PART NUMBER	PART NAME
BV6Z-7B546-C	Dual Clutch Assembly Kit (Focus & Fiesta Built After 1/12/2011)
AE8Z-7B546-D	Dual Clutch Assembly Kit (Fiesta Built To 1/12/2011)
AE8Z-7064-A	Clutch-To-Hollow Input Shaft Snap Ring (Focus)
AE8Z-7064-B	Clutch-To-Hollow Input Shaft Snap Ring (Fiesta)
AE8Z-7007-A	Engine-to-Transaxle Separator Plate (Fiesta)
W703662-S403	Exhaust Nut (Fiesta)
2S6Z-9450-A	Exhaust Gasket (Fiesta)
W520203-S442	Ball Joint Nut (Fiesta)
W709618-S442	Ball Joint Bolt (Fiesta)
W715491-S442	Ball Joint Bolt (Focus)
W520415-S442	Ball Joint Nut (Focus)
AE8Z-1S177-A	Halfshaft Seal Kit (2 Req) (Focus)
AE8Z-7048-A	Input Shaft Seal Outer
AE8Z-7052-A	Input Shaft Seal Inner
W705448-S441	Flexplate-To-Clutch Nut (2 Pkg Req)
YS4Z-3N324-AA	Bearing Retainer Strap
W520102-S442	Bearing Retainer Strap Nut
9U7Z-19A506-BA	Transaxle Input Shaft/Spline Lubricant
XL-2	Motorcraft® High Temperature Nickel Anti-Seize Lubricant
XT-11-QDC	Motorcraft® Dual Clutch Transmission Fluid
PM-4-A	Motorcraft® Metal Brake Parts Cleaner

**WARRANTY STATUS:** Eligible Under Provisions Of New Vehicle Limited 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.

OPERATION	DESCRIPTION	TIME
130405A	2011-2013 Fiesta: Reprogram The PCM/TCM, Perform Adaptive Learning, Adaptive Drive Cycle, Road Test To Verify Repair (Do Not Use With Any Other Labor Operations)	1.2 Hrs.

130405A	2012-2013 Focus: Reprogram The PCM/TCM, Perform Adaptive Learning, Adaptive Drive Cycle, Road Test To Verify Repair (Do Not Use With Any Other Labor Operations)	1.2 Hrs.
130405B	2011-2013 Fiesta: Reprogram The PCM/TCM, Perform Adaptive Learning, Adaptive Drive Cycle, Road Test To Verify Repair Using IDS Monitor PIDS During Road Test And Perform Calculations (Do Not Use With Any Other Labor Operations)	1.6 Hrs.
130405B	2012-2013 Focus: Reprogram The PCM/TCM, Perform Adaptive Learning, Adaptive Drive Cycle, Road Test To Verify Repair Using IDS Monitor PIDS During Road Test And Perform Calculations (Do Not Use With Any Other Labor Operations)	1.6 Hrs.
130405C	2011-2013 Fiesta: Reprogram The PCM/TCM, Perform Adaptive Learning, Adaptive Drive Cycle, Road Test To Verify Repair Using IDS Monitor PIDS During Road Test Perform Calculations, Replace Clutch, Perform Adaptive Learning, Adaptive Drive Cycle (Do Not Use With Any Other Labor Operations)	7.2 Hrs.

## TSB 13-4-5 (Continued)

130405C	2012-2013 Focus: Reprogram The PCM/TCM, Perform Adaptive Learning, Adaptive Drive Cycle, Road Test To Verify Repair Using IDS Monitor PIDS During Road Test Perform Calculations, Replace Clutch, Perform Adaptive Learning, Adaptive Drive Cycle (Do Not Use With Any Other Labor Operations)	7.8 Hrs.
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### DEALER CODING

BASIC PART NO.	CONDITION CODE
7B546	14