FORD:
2010 F-150

ISSUE
Some 2010 F-150 vehicles equipped with a 4.6L 3 valve engine may exhibit an idle fluctuation or rolling idle condition during air conditioning (A/C) operation only during electronic cooling fan operation.

ACTION
Follow the Service Procedure steps to correct the condition.

SERVICE PROCEDURE
1. Reprogram the powertrain control module (PCM) and transmission control module (TCM) calibration using IDS release 74.04 and higher. This new calibration is not included in the VCM 2011.7 DVD. Calibration files may also be obtained at www.motorcraft.com.

NOTE
THE TCM CANNOT BE INDEPENDENTLY REPROGRAMMED. REPROGRAM USING THE PMI FUNCTION TO ENSURE THAT ENGINE AND TRANSMISSION CALIBRATIONS ARE UPDATED TO THE LATEST LEVEL SIMULTANEOUSLY.

NOTE
IT IS CRITICAL THAT KEEP ALIVE MEMORY (TCM) KAM BE CLEARED FOR THIS PROCEDURE TO BE FULLY EFFECTIVE.

2. Clear TCM KAM and adaptive tables.
   a. Using IDS:
      (1) Open Toolbox
      (2) Choose Powertrain
      (3) Choose Reset KAM
      (4) Then Choose TCM
   b. Using PDS:
      (1) Choose all Tests and Calibrations

   (2) Scroll down the menu and choose reset TCM KAM

NOTE
FOR PDS, RESET TCM KAM IS NOT THE SAME AS CLEAR TRANSMISSION ADAPTIVE TABLES, WHICH IS UNDER THE POWERTRAIN - TRANSMISSION MENU TREE.

NOTE
DISCONNECTING THE BATTERY WILL NOT CLEAR THE TCM KAM. IT IS CRITICAL THAT TCM KAM BE CLEARED PRIOR TO RELEARNING THE ADAPTIVE TABLES FOR THE TRANSMISSION.

NOTE
DO NOT CLEAR THE PCM KAM.

3. Verify that the transmission fluid temperature (TFT) PID is above 175 °F (80 °C). If it is not at 175 °F (80 °C), drive unit approximately 3 miles (5 Km) to reach temperature.

NOTE
TFT MUST BE AT 175 °F (80 °C) OR ABOVE BEFORE PROCEEDING TO STEP 5.

NOTE
PERFORM ADAPTIVE SHIFT STRATEGY LEARN ON LEVEL SURFACE ROAD.

4. Drive unit to perform adaptive shift strategy learn.
   a. Accelerate from a stopped position with light throttle to 24 Km/h (15 MPH) and remove foot from accelerator pedal.
   b. Brake very gently to a complete stop (allow at least six (6) seconds).
   c. Repeat steps (a-b) five (5) times in the dealership parking lot or similar setting.
d. Accelerate from rest with light throttle ensuring that the 1-2, 2-3 and 3-4 shifts occur at engine speeds between 1700-2000 RPM.

WARRANTY STATUS: Eligible Under Provisions Of New Vehicle Limited Warranty Coverage. IMPORTANT: Warranty coverage limits/policies are not altered by a TSB. Warranty coverage limits are determined by the identified causal part.

e. Continue to accelerate until you achieve 80 Km/h (50 MPH) or the 5-6 upshift.

d. Accelerate from rest with light throttle ensuring that the 1-2, 2-3 and 3-4 shifts occur at engine speeds between 1700-2000 RPM.

e. Continue to accelerate until you achieve 80 Km/h (50 MPH) or the 5-6 upshift.

f. Brake gently to a complete stop and hold foot on brake for ten (10) seconds.

Warranty coverage limits are determined by the identified causal part.

g. Repeat steps (d-f) three (3) times.

NOTE
SEVERAL DAYS OF DRIVING ARE REQUIRED FOR THE TRANSMISSION TO FULLY ADAPT.

NOTE
PLEASE ADVISE THE CUSTOMER THAT THIS VEHICLE IS EQUIPPED WITH AN ADAPTIVE TRANSMISSION SHIFT STRATEGY WHICH ALLOWS THE VEHICLE’S COMPUTER TO LEARN THE TRANSMISSION’S UNIQUE PARAMETERS AND IMPROVE SHIFT QUALITY. WHEN THE ADAPTIVE STRATEGY IS RESET, THE COMPUTER WILL BEGIN A RE-LEARNING PROCESS. THIS RE-LEARNING PROCESS MAY RESULT IN FIRMER THAN NORMAL UPshiftS AND DOWNSHIFTS FOR SEVERAL DAYS.

OPERATION DESCRIPTION TIME
110901A 2010 F-150 4.6L 3V: Reprogram The PCM And TCM, Includes Time To Perform Adaptive Shift Strategy Learn (Do Not Use With Any Other Labor Operation) 1.0 Hr.

DEALER CODING
BASIC PART NO. RECAL 04