

3.5L GTDI - INOPERATIVE, EXCESSIVELY NOISY VACUUM PUMP, HARD BRAKE PEDAL ON INITIAL START-UP AND/OR OPEN FUSE F64 IN THE BATTERY JUNCTION BOX

TSB 15-0105

FORD:

2011-2012 F-150

ISSUE

Some 2011-2012 F-150 vehicles equipped with a 3.5L gasoline turbocharged direct injection (GTDI) engine may exhibit a hard brake pedal on initial start-up, an electric vacuum pump that is inoperative or excessively noisy and/or fuse F64 is open in the battery junction box (BJB).

ACTION

Follow the Service Procedure steps to correct the condition.

SERVICE PROCEDURE

1. Does the vacuum pump operate?
 - a. Yes - proceed to Step 2.
 - b. No - proceed to Step 3.
2. Is the vacuum pump excessively noisy?
 - a. Yes - proceed to Step 7.
 - b. No - this procedure does not apply, refer to Workshop Manual (WSM), Section 206-00 for normal diagnosis.
3. Inspect fuse F64 in the BJB. Is the fuse open?
 - a. Yes - replace the fuse and proceed to Step 4.
 - b. No - proceed to Step 4.
4. Check for battery voltage at the vacuum pump connector C1560 pin 1 with the ignition key in the run position. Is battery voltage present?
 - a. Yes - proceed to Step 5.
 - b. No - this procedure does not apply. Repair the voltage supply circuit. Refer to the Wiring Diagram, Cell 42-1.
5. Disconnect the vacuum pump connector C1560. Check the resistance to ground at the harness connector pin 2 with the ignition key off. Is the resistance less than 5 ohms?
 - a. Yes - proceed to Step 6.
 - b. No - this procedure does not apply. Repair the ground circuit. Refer to the Wiring Diagram, Cell 5-1.
6. Inspect pins 1 and 2 in C1560. Are both pins clean and tight?
 - a. Yes - proceed to Step 7.
 - b. No - this procedure does not apply. Repair the wiring harness. Refer to the Wiring Diagram Cell 5-1.
7. Replace the vacuum pump and install the harness kit. Refer to WSM, Section 206-07 and the instructions provided in the harness kit.

PART NUMBER	PART NAME
CL3Z-9C490-D	Vacuum Pump Harness Kit

NOTE: The information contained 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.

PART NUMBER	PART NAME
BL3Z-2A451-A	Vacuum Pump

OPERATION	DESCRIPTION	TIME
150105A	2011-2012 F-150 3.5L EcoBoost: Diagnose And Replace The Brake Vacuum Pump Includes Time To Install Harness Kit (Do Not Use With Any Other Labor Operations)	1.0 Hr.

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.

DEALER CODING

BASIC PART NO.	CONDITION CODE
9C490	42