

6.7L - DUAL FUEL TANKS - HYDRAULIC BRAKES - BUZZ NOISE FROM TRANSMISSION AND/OR DISCHARGED BATTERIES - BUILT ON OR BEFORE 30-NOV-2016

TSB 17-0013

FORD:

2016-2017 F-650, F-750

ISSUE

Some 2016-2017 F-650/750 vehicles equipped with a 6.7L engine, dual fuel tanks, hydraulic brakes and built on or before 30-Nov-2016 may exhibit discharged batteries, with or without a slow/no crank condition, when the dual fuel tank selector switch is set to the right hand side fuel tank. The vehicle may also exhibit a buzzing noise from the transmission when the key is off and the dual fuel tank selector switch is set to the right hand side fuel tank. This may be due to the dual tank selector switch allowing an instrument panel cluster (IPC) sense voltage to back feed into the key power fuse panel circuits causing the transmission control module (TCM) to remain in the key on mode when the key is off.

ACTION

Follow the Service Procedure steps to correct the condition.

SERVICE PROCEDURE

Adding the electrical load of a relay coil to the fuse panel circuit will draw the IPC sense voltage low enough to allow the TCM to properly transition to the key off mode.

1. Cut the yellow/green (YE/GN) wire and both gray/blue (GY/BU) wires of the new relay kit to approximately 75 mm (3 inch) and heat shrink the ends, these circuits are not used. (Figure 1)

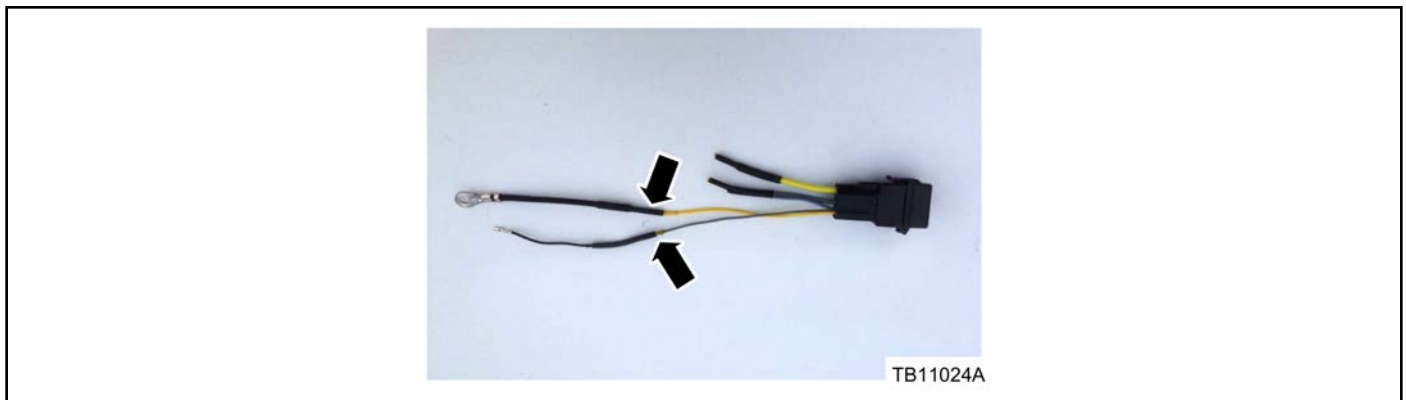


Figure 1 - Article 17-0013

2. Using the solder splicing method, connect the gray/yellow (GY/YE) wire from the relay kit and one pin terminal from the wire-terminal kit together. The pin terminal can be cut to create a total wire length of approximately 250 mm (10 inch). Refer to Wiring diagram (WD), Section 5-5. (Figure 1)
3. Connect the yellow (YE) wire from the relay kit and the ground eyelet pin terminal 105460 together using the solder splicing method. Refer to WD, Section 5-5. (Figure 1)
 - a. Ground eyelet pin terminal 105460 can be found in the wiring harness terminal repair kit, box 4, drawer L6.
4. Disconnect the batteries. Refer to Workshop Manual (WSM), Section 414-01.
 - a. Charge batteries as required. Refer to WSM, Section 414-01.
5. Remove the right front door scuff plate. (Figure 2)

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.

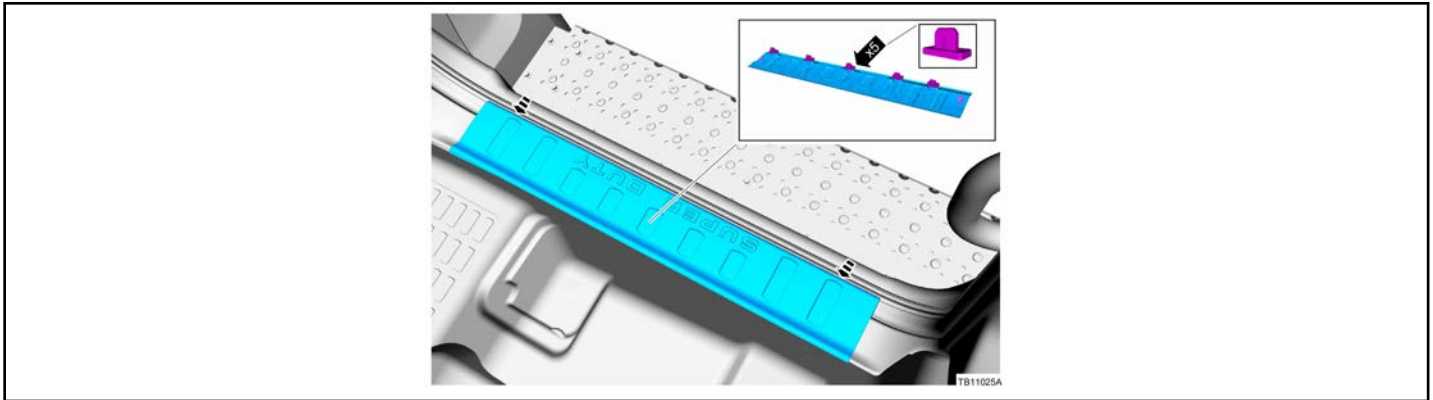


Figure 2 - Article 17-0013

6. Remove the body control module (BCM) fuse access cover. (Figure 3)

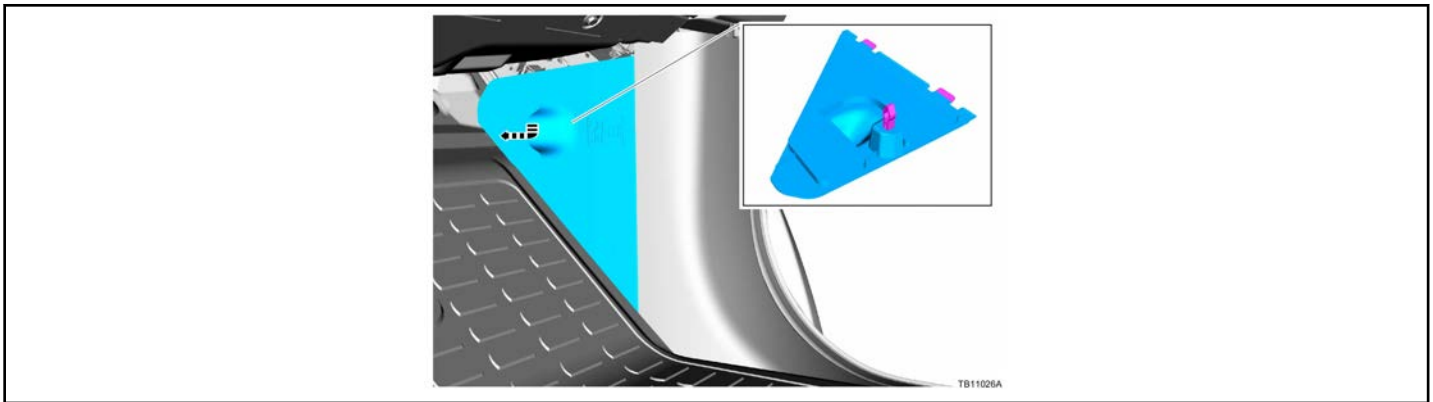


Figure 3 - Article 17-0013

7. Remove the right side lower cowl trim panel. (Figure 4)

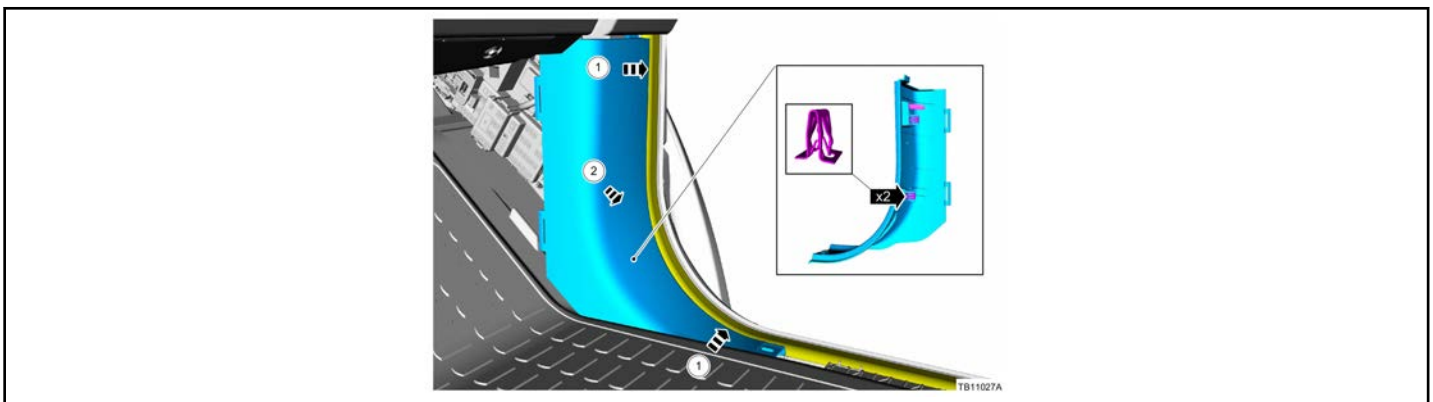


Figure 4 - Article 17-0013

8. Disconnect C2280B from the BCM. Refer to WD, Section 11-4.
9. Cut the strain relief wire tie strap from C2280B, release the connector cover tab and slide back the connector cover.
10. Insert the terminal that was spliced to the relay kit into empty cavity 3 of C2280B. Secure the pin in the connector, close the cover and install a new strain relief wire tie strap. (Figure 5)

TSB 17-0013 (Continued)

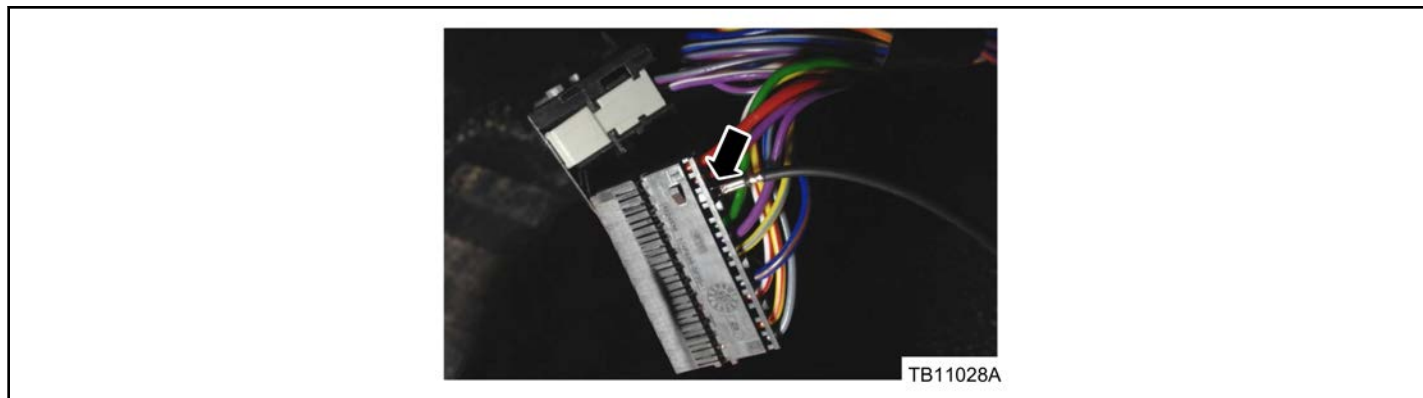


Figure 5 - Article 17-0013

11. Reconnect C2280B to the BCM.
12. Remove G302 terminal screw, install the ground eyelet from the relay kit and secure with a screw. Tighten the screw to 12 Nm (106 lb-in). Refer to Wiring Diagram (WD), Section 152-1.
13. Using a new wire tie strap, secure the relay kit in a vertical position to the vehicle's harness. (Figure 6)

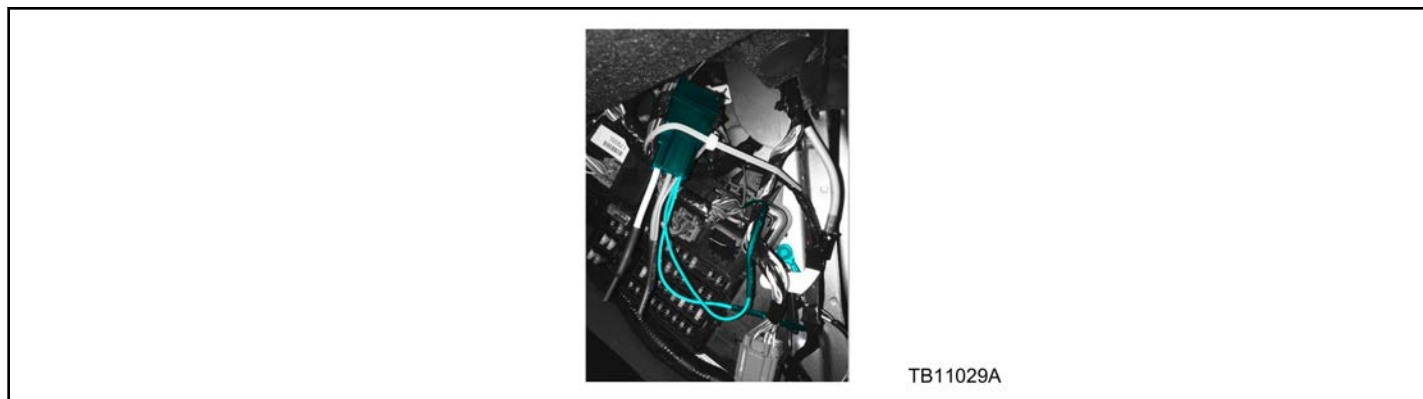


Figure 6 - Article 17-0013

14. Reinstall the right side lower cowl trim panel, BCM fuse access cover and right front door scuff plate. (Figures 2 - 4)
15. Reconnect the batteries. Refer to WSM, Section 414-01.

Obtain Locally
Part Description
200 mm (8 inch) Tie Strap

PART NUMBER	PART NAME
AU5Z-14N089-FA	Relay Kit
DU2Z-14474-AA	Wire - Terminal Kit

OPERATION	DESCRIPTION	TIME
170013A	2016-2017 F650/750: Modify The Relay Assembly And Install Following The Service Procedure (Do Not Use With Any Other Labor Operations)	0.8 Hr.

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.

DEALER CODING

BASIC PART NO.	CONDITION CODE
12A581	39