

ILLUMINATED WRENCH LIGHT—DIAGNOSTIC TROUBLE CODE (DTC) B1029:11—WITH OR WITHOUT LACK OF PERFORMANCE

TSB 13-3-19

FORD:

2011-2013 Fiesta

ISSUE

Some 2011-2013 Fiesta vehicles may exhibit an illuminated Wrench Lamp with DTC B1029:11 in the Instrument Panel Cluster (IPC). The vehicle may or may not exhibit lack of performance concerns, and DTCs P2126, P2127, or P2138 may be present in the Powertrain Control Module (PCM).

ACTION

Follow the Service Procedure steps to correct the condition.

SERVICE PROCEDURE

1. Disconnect the battery. Refer to Workshop Manual (WSM), Section 414-01.
2. Remove the left hand cowl side trim panel. Refer to WSM, Section 501-05.
3. Remove the two (2) retaining fasteners securing C210 to the vehicle. Refer to Wiring Diagram (WD), Section 151-01.
4. Identify the following circuits on both sides of C210: APP VREF2 pin 1 - LE136 (GN-OG), APP2 pin 8 - LE137 (BU-GY) and APP RTN2 pin 9 - RE137 (YE-GN). Refer to WD, Section 23-1.
5. Cut all six (6) circuits approximately 25 mm (1") from the back of each connector side, and tape over the exposed ends.
6. Splice together each of the related circuits using 230 mm (9") of 18 gauge wire. The new circuits will bypass C210, and should provide enough slack to allow the connector to be disconnected in the future. Refer to splicing methods in WD, Section 5-1.
7. Secure the connector to the vehicle and tape the new circuits to the bundle near the connector.
8. Disconnect C2040 at the accelerator pedal position (APP) sensor and remove the white terminal retainer from the connector.
9. Identify and remove circuits APP VREF2 pin 1 - LE136 (GN-OG) and APP2 pin2 - LE137 (BU-GY) from the connector, using a small flat blade screwdriver or other suitable tool to release the cavity terminal locking tab. Refer to WD, Section 23-1.
10. Reverse the orientation of the APP twisted pair circuits in the connector location cavities to improve robustness against system noise.
 - a. New orientation: APP VREF2 pin 2 - LE136 (GN-OG) and APP2 pin 1 - LE137 (BU-GY).
11. Install the white terminal retainer, and connect the connector.
12. Remove IPC. Refer to WSM, Section 413-01.
13. Disconnect the C220 by swinging the latch lock downward on the connector and remove from the IPC, cut the harness zip tie at the connector, and remove 7.5 cm (3") of tape from the harness.
14. Use two small flat blade screwdrivers or other suitable tools to lightly pry outward on the black connector cap tabs located on the harness side. Pull the cap away and off the gray connector.
15. Identify and remove circuits APP VREF2 pin 31 - LE136 (GN-OG) and APP2 pin 14 - LE137 (BU-GY) from the connector, using a small flat blade screwdriver or other suitable tool to press the sliver tab to release each terminal. Refer to WD, Section 23-1.
16. Reverse the orientation of the twisted pair circuits in the IPC connector location cavities and assemble the connector.

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.

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- a. New orientation: APP VREF2 pin 14 - LE136 (GN-OG) and APP2 pin 31 - LE137 (BU-GY)

17. Connect C220 to the IPC and swing the latch lock upward to fully engage.
18. Tape the circuits and install a nylon tie strap in the original location.
19. Install the IPC. Refer to WSM, Section 413-01.
20. Connect the battery terminals.

Parts Obtained Locally
Part Description
18 Gauge Wire Nylon Tie Strap Electrical Tape Heat Shrink Tube

OPERATION	DESCRIPTION	TIME
130319A	2011-2013 Fiesta: Check DTCs, Follow The Service Procedure To Make Wiring Updates (Do Not Use With Any Other Labor Operations)	0.9 Hr.
DEALER CODING		
BASIC PART NO.		CONDITION CODE
14290		X2

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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.