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2011 FORD Fiesta 5 Doors OEM Service and Repair Workshop Manual

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Yes	The vehicle is operating correctly. SEND the trailer to an authorized camper/trailer repair facility.
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No	<p>If equipped with a 4-pin connector only, if both stop/turn lamps are inoperative, GO to C3 If equipped with a 4-pin connector only, if only one stop/turn lamp is inoperative, GO to C5 If equipped with a 4-pin connector only, if both stop/turn lamps are always on, GO to C8 If equipped with a 4-pin connector only, if only one stop/turn lamp is always on, GO to C7 If equipped with a 4-pin and 7-pin connector, GO to C2</p>
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C2 CHECK FOR VOLTAGE TO THE TRAILER TOW CONNECTOR (VEHICLE HARNESS)

- Ignition OFF.
- Disconnect: Trailer Tow C4099.
- Ignition ON.
- While applying and releasing the brake pedal, measure:

LH (left-hand) Stop/Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C4099-1		Ground

RH (right-hand) Stop/Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C4099-4		Ground

Is the voltage greater than 11 volts when the brake pedal is pressed and less than 7 volts when the brake pedal is released?

Yes	INSTALL a new trailer tow connector. TEST the system for normal operation.
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Positive Lead	Measurement / Action	Negative Lead
C2498F-14	\bar{V}	C2498F-12

Is the voltage greater than 11 volts?

Yes	GO to C8
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No	REPAIR the circuit.
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C5 CHECK TRAILER STOP/TURN LAMP CIRCUITS FOR AN OPEN

- Ignition OFF.
- Disconnect: TRM (trailer module) C2498F.
- Ignition ON.
- If equipped with a 4-pin connector only, measure:

LH (left-hand) Stop/Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C4098-2	Ω	C2498F-11

RH (right-hand) Stop/Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C4098-1	Ω	C2498F-13

- If equipped with a 4-pin and 7-pin connector, measure:
- ### LH (left-hand) Stop/Turn Lamp

- If equipped with a 4-pin and 7-pin connector, measure:

LH (left-hand) Stop/Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C4099-1	Ω	Ground

RH (right-hand) Stop/Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C4099-4	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to C8
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No	REPAIR the circuit.
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C7 CHECK TRAILER STOP/TURN LAMP CIRCUITS FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect: TRM (trailer module) C2498F.
- Ignition ON.
- If equipped with a 4-pin connector only, measure:

LH (left-hand) Stop/Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C4098-2	\bar{V}	Ground

- Reconnect the TRM (trailer module) connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS (Online Automotive Service Information System) for any applicable service articles: TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new TRM (trailer module) . REFER to: Trailer Module (TRM) (417-01 Exterior Lighting, Removal and Installation).
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.

PINPOINT TEST D : THE TRAILER PARKING LAMPS ARE INOPERATIVE OR ALWAYS ON

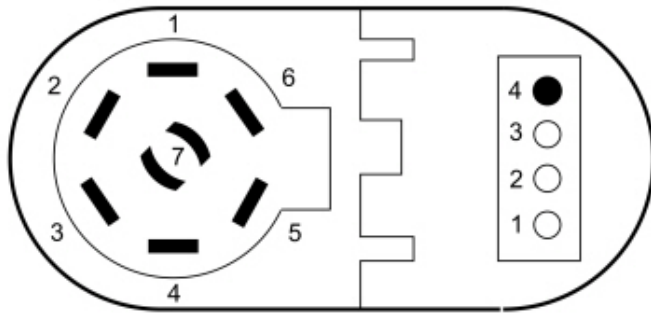
Refer to Wiring Diagrams Cell 95 for schematic and connector information.

Normal Operation and Fault Conditions REFER to: [Exterior Lighting - Overview](#)
(417-01 Exterior Lighting, Description and Operation).

REFER to: [Exterior Lighting - System Operation and Component Description](#)
(417-01 Exterior Lighting, Description and Operation).

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
BCM (body control module) B1449:12	Trailer Tow Park/Tail Lamp Output: Circuit Short To Battery	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the BCM (body control module) detects a short to voltage from the trailer parking lamps relay enable circuit.
BCM (body control module) B1449:14	Trailer Tow Park/Tail Lamp Output: Circuit Short To Ground Or Open	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the BCM (body control module) detects an open short to ground from the trailer parking lamps relay enable circuit.



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4-Pin Connector, Pin 3

\overline{V}

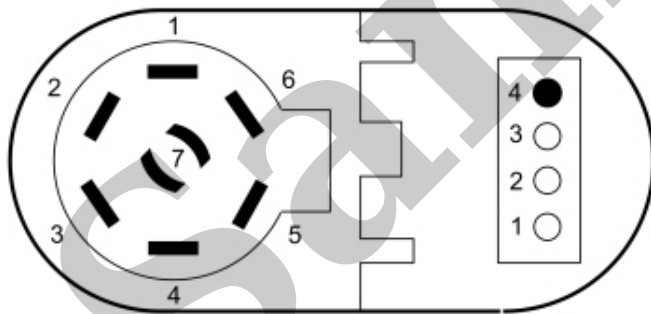
Ground

- If equipped with a 4-pin and 7-pin connector, for 7-pin connector, measure:

Positive Lead

Measurement /
Action

Negative
Lead



E181986

7-Pin Connector, Pin 6

\overline{V}

Ground

- Place the headlamp switch in the OFF position.
- If equipped with a 4-pin connector only, measure:

Positive Lead	Measurement / Action	Negative Lead
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Is the voltage greater than 11 volts when the headlamps switch in the PARKING LAMPS position and 0 volts when the headlamps switch in the OFF position?

Yes	The vehicle is operating correctly. SEND the trailer to an authorized camper/trailer repair facility.
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No	<p>If equipped with a 4-pin connector only, If the trailer parking lamps are inoperative, VERIFY the BCMC (body control module C) (also known as the BJB (battery junction box)) fuse 55 (30A) is OK. If OK, GO to D3</p> <p>If not OK, REFER to the Wiring Diagrams manual to identify the possible causes of the circuit short.</p> <p>If equipped with a 4-pin and 7-pin connector, If the trailer parking lamps are inoperative, GO to D2 If the trailer parking lamps are always on, GO to D7</p>
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D2 CHECK FOR VOLTAGE TO THE TRAILER TOW CONNECTOR (VEHICLE HARNESS)


No	GO to D4
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D4 BYPASS THE BCM (BODY CONTROL MODULE)


- Ignition OFF.
- Place the headlamp switch in the OFF position.
- Connect a fused jumper:

Positive Lead	Measurement / Action	Negative Lead
C2280F-12		Ground

- If equipped with a 4-pin connector only, measure:

Positive Lead	Measurement / Action	Negative Lead
C4098-3		Ground

- If equipped with a 4-pin and 7-pin connector, for 4-pin connector, measure:

Positive Lead	Measurement / Action	Negative Lead
C4099-6		Ground

Is the voltage greater than 11 volts?

Yes	GO to D10
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C4099-6	Ω	C1035C-56
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Is the resistance less than 3 ohms?

Yes	INSTALL a new BCMC (body control module C) (also known as the BJB (battery junction box)).
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No	REPAIR the circuit.
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D7 CHECK THE BCM (BODY CONTROL MODULE)

C2280F-12	Ω	Ground
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Is the resistance greater than 10,000 ohms?

Yes	GO to D10
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No	REPAIR the circuit.
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D9 CHECK THE TRAILER TOW PARKING LAMPS RELAY OUTPUT CIRCUIT FOR A SHORT TO VOLTAGE

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: If equipped, TRM (trailer module) C2498F.
- Ignition ON.
- If equipped with a 4-pin connector only, measure:

Positive Lead	Measurement / Action	Negative Lead
C4098-3	\overline{V}	Ground

- If equipped with a 4-pin and 7-pin connector, for 4-pin connector, measure:

Positive Lead	Measurement / Action	Negative Lead
C4099-6	\overline{V}	Ground

Is any voltage present?

Yes	REPAIR the circuit.
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No	INSTALL a new BCMC (body control module C) (also known as the BJB (battery junction box)).
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