

Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2012 FORD Fiesta 5 Doors OEM Service and Repair Workshop Manual

[Go to manual page](#)

No	REPAIR the circuit.
----	---------------------

PINPOINT TEST B : ONE OR MORE TRAILER STOP/TURN LAMPS ARE INOPERATIVE OR ALWAYS ON - VEHICLES NOT EQUIPPED WITH A TRM (TRAILER MODULE)

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](#)

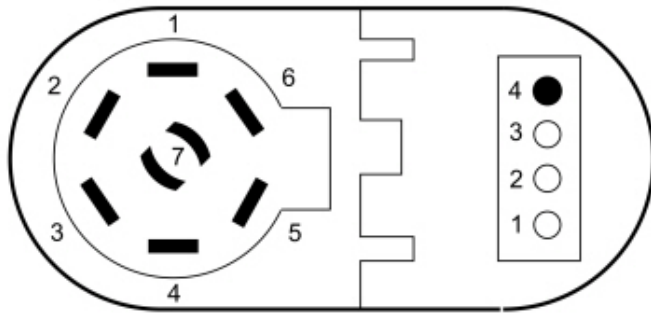
(417-01 Exterior Lighting, Description and Operation).

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
BCM (body control module) B132B:12	Left Stop/Turn Lamp: 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 LH (left-hand) trailer stoplamp/turn signal output circuit.
BCM (body control module) B132B:14	Left Stop/Turn Lamp: 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 or short to ground from the LH (left-hand) trailer stoplamp/turn signal output circuit.
BCM (body control module) B132C:12	Right Stop/Turn Lamp: 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 RH (right-hand) trailer stoplamp/turn signal output circuit.
BCM (body control module) B132C:14	Right Stop/Turn Lamp: 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 or short to ground from the RH (right-hand) trailer stoplamp/turn signal output circuit.

Possible Sources

- Fuse
- Wiring, terminals or connectors



E181986

4-Pin Connector, Pin 2

\bar{V}

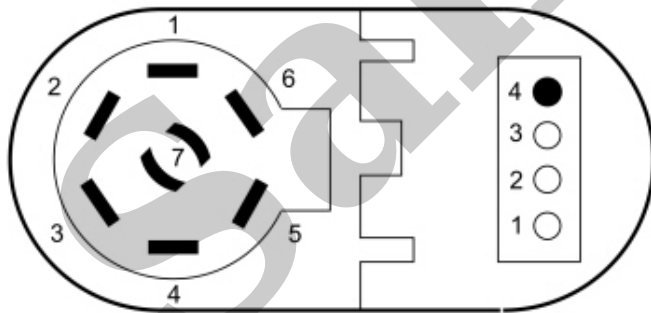
Ground

RH (right-hand) Stop/Turn Lamp

Positive Lead

Measurement /
Action

Negative
Lead



E181986

4-Pin Connector, Pin 1

\bar{V}

Ground

- If equipped with a 4-pin and 7-pin connector, for 7-pin connector, while applying and releasing the brake pedal, measure:

LH (left-hand) Stop/Turn Lamp

Positive Lead

Measurement /

Negative

No

If equipped with a 4-pin connector only, if both stop/turn lamps are inoperative, VERIFY the BCMC (body control module C) (also known as the BJB (battery junction box)) fuse 56 (20A) is OK. If OK, INSTALL a new BCMC (body control module C) (also known as the BJB (battery junction box)).

REFER to: [Body Control Module C \(BCMC\)](#)

(419-10 Multifunction Electronic Modules, Removal and Installation).

If not OK, REFER to the Wiring Diagrams manual to identify the possible causes of the circuit short.

If equipped with a 4-pin connector only, if only one stop/turn lamp is inoperative, GO to [B3](#)

If equipped with a 4-pin connector only, if both stop/turn lamps are always on, INSTALL a new BCMC (body control module C) (also known as the BJB (battery junction box)).

REFER to: [Body Control Module C \(BCMC\)](#)


(419-10 Multifunction Electronic Modules, Removal and Installation).

If equipped with a 4-pin connector only, if only one stop/turn lamp is always on, GO to [B7](#) If equipped with a 4-pin and 7-pin connector, GO to [B2](#)


B2 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

Positive Lead	Measurement / Action	Negative Lead
Battery Positive		C1035D-2

Is the voltage greater than 11 volts?


Yes	GO to B6
------------	--------------------------

No	GO to B4
-----------	--------------------------


B4 CHECK THE TRAILER TOW STOP/TURN LAMPS RELAY ENERGIZE CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect: BCM (body control module) C2280F.
- Ignition ON.
- Measure:

LH (left-hand) Stop/Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C2280F-2		Ground

RH (right-hand) Stop/Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C2280F-13		Ground

Is any voltage present?

Yes	REPAIR the circuit.
------------	---------------------

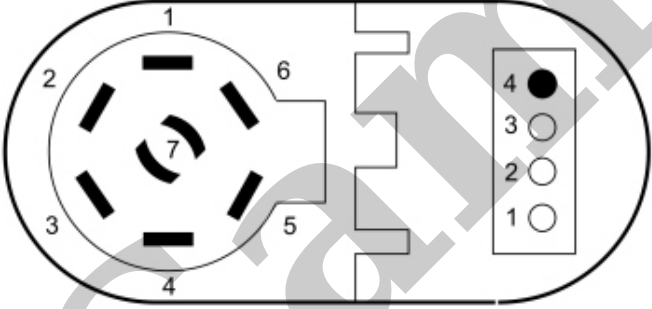
C4098-2	Ω	C1035D-4
---------	----------	----------

RH (right-hand) Stop/Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C4098-1	Ω	C1035D-1

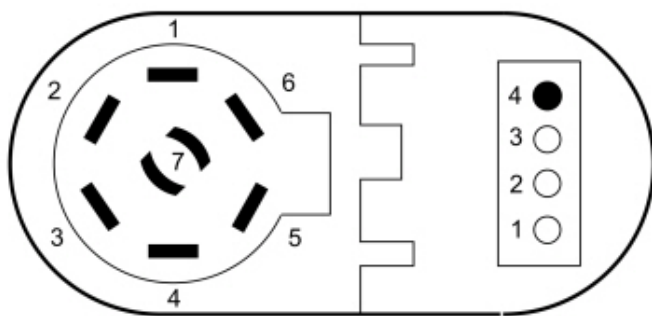
- If equipped with a 4-pin and 7-pin connector, for 4-pin connector, measure:

LH (left-hand) Stop/Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
 <p>E181986</p> <p>4-Pin Connector, Pin 2</p>	Ω	C1035D-4

RH (right-hand) Stop/Turn Lamp

Positive Lead	Measurement / Action	Negative Lead



E181986

7-Pin Connector, Pin 4

Ω

C1035D-1

Is the resistance less than 3 ohms?

Yes	REPAIR the circuit.
------------	---------------------

No	<p>INSTALL a new BCMC (body control module C) (also known as the BJB (battery junction box)).</p> <p>REFER to: Body Control Module C (BCMC)</p> <p>(419-10 Multifunction Electronic Modules, Removal and Installation).</p>
-----------	--

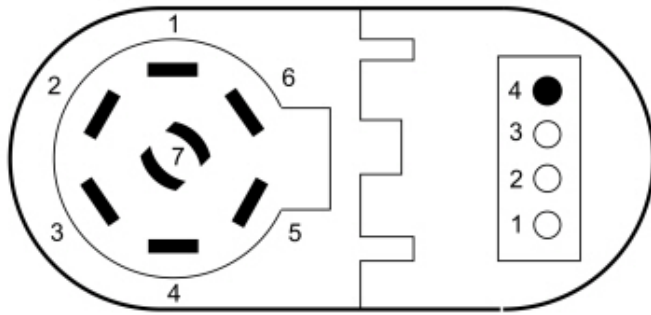
B7 CHECK THE TRAILER TOW STOP/TURN LAMPS RELAY OUTPUT CIRCUIT FOR A SHORT TO VOLTAGE

- Place the headlamp switch in the OFF position.
- Disconnect: BCMC (body control module C) (also known as the BJB (battery junction box)) C1035D.
- 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	\overline{V}	Ground

RH (right-hand) Stop/Turn Lamp



E181986

4-Pin Connector, Pin 1

\bar{V}

Ground

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

LH (left-hand) Stop/Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
<p>E181986</p> <p>7-Pin Connector, Pin 1</p>	<p>\bar{V}</p>	<p>Ground</p>

RH (right-hand) Stop/Turn Lamp

Positive Lead	Measurement / Action	Negative Lead

(419-10 Multifunction Electronic Modules, 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 C : ONE OR MORE TRAILER STOP/TURN LAMPS ARE INOPERATIVE OR ALWAYS ON - VEHICLES EQUIPPED WITH A TRM (TRAILER MODULE)

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
TRM (trailer module) B1D08:11	Left Trailer Direction Indicator: Circuit Short To Ground	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the TRM (trailer module) detects a short to ground from the LH (left-hand) trailer stoplamp/turn signal output circuit.
TRM (trailer module) B1D08:12	Left Trailer Direction Indicator: Circuit Short To Battery	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the TRM (trailer module) detects a short to voltage from the LH (left-hand) trailer stoplamp/turn signal output circuit.
TRM (trailer module) B1D09:11	Right Trailer Direction Indicator: Circuit Short To Ground	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the TRM (trailer module) detects a short to ground from the RH (right-hand) trailer stoplamp/turn signal output circuit.
TRM (trailer module) B1D09:12	Right Trailer Direction Indicator: Circuit Short To Battery	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the TRM (trailer module) detects a short to voltage from the RH (right-hand) trailer stoplamp/turn signal output circuit.

	Action	Lead
<p>E181986</p> <p>4-Pin Connector, Pin 2</p>	\overline{V}	Ground

RH (right-hand) Stop/Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
<p>E181986</p> <p>4-Pin Connector, Pin 1</p>	\overline{V}	Ground

- If equipped with a 4-pin and 7-pin connector, for 7-pin connector, while applying and releasing the brake pedal, measure:

LH (left-hand) Stop/Turn Lamp