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## 2007 FORD Fiesta 5 Doors OEM Service and Repair Workshop Manual

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- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect Spot Lamp Switch C2507 .
- Ignition ON.
- Place the headlamp switch in the PARKLAMPS position.
- Momentarily connect a fused jumper:

#### LH (left-hand) Spot Lamp

Positive Lead	Measurement / Action	Negative Lead
C2507-2		Ground

**Does the LH (left-hand) exterior mirror spot lamp illuminate?**

<b>Yes</b>	GO to <a href="#">A3</a>
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<b>No</b>	GO to <a href="#">A4</a>
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#### A3 CHECK THE SPOT LAMP SWITCH GROUND CIRCUIT FOR AN OPEN

- Ignition OFF.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2507-3	$\Omega$	Ground

**Is the resistance less than 3 ohms?**

<b>Yes</b>	INSTALL a new spot lamp switch. REFER to: <a href="#">Spot Lamp Switch</a> (417-01 Exterior Lighting, Removal and Installation).
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trouble code)		
DDM (driver door module) B14AB:11	Spotlight Mirror Output: Circuit Short To Ground	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the DDM (driver door module) detects a short to ground from the spot lamp output circuit.
DDM (driver door module) B14AB:15	Spotlight Mirror Output: Circuit Short To Battery Or Open	An on-demand DTC (diagnostic trouble code) that sets when the DDM (driver door module) detects an open or short to voltage from the spot lamp output circuit.
PDM (passenger door module) B14AB:11	Spotlight Mirror Output: Circuit Short To Ground	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the PDM (passenger door module) detects a short to ground from the spot lamp output circuit.
PDM (passenger door module) B14AB:15	Spotlight Mirror Output: Circuit Short To Battery Or Open	An on-demand DTC (diagnostic trouble code) that sets when the PDM (passenger door module) detects an open or short to voltage from the spot lamp output circuit.
PDM (passenger door module) B15F2:23	Left Spotlight Switch Circuit: Signal Stuck Low	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the PDM (passenger door module) detects a short to ground from the LH (left-hand) spot lamp switch input circuit.
PDM (passenger door module) B15F3:23	Right Spotlight Switch Circuit: Signal Stuck Low	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the PDM (passenger door module) detects a short to ground from the RH (right-hand) spot lamp switch input circuit.

#### Possible Sources


- Wiring, terminals or connectors
- Spot lamp (integrated into the exterior mirror turn lamp)
- Spot lamp switch
- Exterior mirror

#### Visual Inspection and Pre-checks

- Inspect the spot lamp switch for damage.
- Inspect the exterior mirrors for damage.

#### B1 CHECK THE SPOT LAMP OPERATION

### RH (right-hand) Spot Lamp

Positive Lead	Measurement / Action	Negative Lead
C622-15		Ground

#### Is any voltage present?


<b>Yes</b>	GO to <a href="#">B4</a>
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<b>No</b>	<p>CHECK the exterior mirror jumper harness between the vehicle harness and the lamp for short circuits and damaged or pushed-out pins. REPAIR the jumper harness. If the harness can not be repaired, INSTALL a new exterior mirror.</p> <p>REFER to: <a href="#">Exterior Mirror - Vehicles With: Short Arm Mirrors</a> (501-09 Rear View Mirrors, Removal and Installation).</p> <p>or REFER to: <a href="#">Exterior Mirror - Vehicles With: Long Arm Mirrors</a> (501-09 Rear View Mirrors, Removal and Installation).</p>
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### B4 CHECK SPOT LAMP VOLTAGE SUPPLY CIRCUIT FOR A SHORT TO VOLTAGE

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect For the LH (left-hand) spot lamp, DDM (driver door module) C501A .
- Disconnect For the RH (right-hand) spot lamp, PDM (passenger door module) C652A .
- Ignition ON.
- Place the headlamp switch in the PARKLAMPS position.
- Measure:

#### LH (left-hand) Spot Lamp

Positive Lead	Measurement / Action	Negative Lead
C521-15		Ground

#### RH (right-hand) Spot Lamp

Positive Lead	Measurement / Action	Negative Lead
C652B-15	$\Omega$	C2507-2

#### LH (left-hand) Spot Lamp

Positive Lead	Measurement / Action	Negative Lead
C652B-6	$\Omega$	C2507-4

Is the resistance greater than 10,000 ohms?

<b>Yes</b>	GO to <a href="#">B15</a>
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<b>No</b>	REPAIR the circuit.
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#### B7 CHECK THE SWITCH INDICATOR OF THE INOPERATIVE SPOT LAMP

- Using the spot lamp switch, enable the inoperative LH (left-hand) and RH (right-hand) spot lamp.

Does the inoperative spot lamp switch indicator illuminate?

<b>Yes</b>	GO to <a href="#">B10</a>
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<b>No</b>	GO to <a href="#">B8</a>
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#### B8 CHECK THE SPOT LAMP SWITCH INPUT

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect PDM (passenger door module) C652B .
- Ignition ON.

Positive Lead	Measurement / Action	Negative Lead
C652B-6	$\Omega$	C2507-4

**Is the resistance less than 3 ohms?**

<b>Yes</b>	INSTALL a new spot lamp switch. REFER to: <a href="#">Spot Lamp Switch</a> (417-01 Exterior Lighting, Removal and Installation).
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<b>No</b>	REPAIR the circuit.
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## B10 CHECK FOR VOLTAGE TO THE INOPERATIVE SPOT LAMP

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect LH (left-hand) Exterior Mirror C521 or RH (right-hand) Exterior Mirror C622 .
- Ignition ON.
- Place the headlamp switch in the PARKLAMPS position and engage the inoperative spot lamp switch.
- Measure:

### LH (left-hand) Spot Lamp

Positive Lead	Measurement / Action	Negative Lead
C521-15	$\overline{V}$	Ground

### RH (right-hand) Spot Lamp

Positive Lead	Measurement / Action	Negative Lead
C622-15	$\overline{V}$	Ground

or REFER to: [Exterior Mirror - Vehicles With: Long Arm Mirrors](#)  
(501-09 Rear View Mirrors, Removal and Installation).

**No** REPAIR the circuit.

## B12 CHECK SPOT LAMP VOLTAGE SUPPLY CIRCUIT FOR A SHORT TO GROUND

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect For inoperative LH (left-hand) spot lamp, LH (left-hand) Exterior Mirror C521 .
- Disconnect For inoperative LH (left-hand) spot lamp, DDM (driver door module) C501A .
- Disconnect For inoperative RH (right-hand) spot lamp, RH (right-hand) Exterior Mirror C622 .
- Disconnect For inoperative RH (right-hand) spot lamp, PDM (passenger door module) C652A .
- Measure:

### LH (left-hand) Spot Lamp

Positive Lead	Measurement / Action	Negative Lead
C521-15	$\Omega$	Ground

### RH (right-hand) Spot Lamp

Positive Lead	Measurement / Action	Negative Lead
C622-15	$\Omega$	Ground

**Is the resistance greater than 10,000 ohms?**

**Yes** GO to [B13](#)

**No** REPAIR the circuit. After the repair:  
If no Diagnostic Trouble Codes (DTCs) are present, TEST the system for normal operation.

- Disconnect and inspect all DDM (driver door module) connectors.
- Repair:
  - corrosion (install new connector or terminals – clean module pins)
  - damaged or bent pins – install new terminals/pins
  - pushed-out pins – install new pins as necessary
- Reconnect the DDM (driver door 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?**

<b>Yes</b>	<p>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 DDM (driver door module) .</p> <p>REFER to: <a href="#">Driver Door Module (DDM)</a> (419-10 Multifunction Electronic Modules, Removal and Installation).</p>
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<b>No</b>	<p>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.</p>
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**B15 CHECK FOR CORRECT PDM (PASSENGER DOOR MODULE) OPERATION**

- Disconnect and inspect all PDM (passenger door module) connectors.
- Repair:
  - corrosion (install new connector or terminals – clean module pins)
  - damaged or bent pins – install new terminals/pins
  - pushed-out pins – install new pins as necessary
- Reconnect the PDM (passenger door 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?**

<b>Yes</b>	<p>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 PDM (passenger door module) .</p>
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- Disconnect and inspect all PDM (passenger door module) connectors.
- Repair:
  - corrosion (install new connector or terminals – clean module pins)
  - damaged or bent pins – install new terminals/pins
  - pushed-out pins – install new pins as necessary
- Reconnect the PDM (passenger door 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?**

<b>Yes</b>	<p>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 PDM (passenger door module) .</p> <p>REFER to: <a href="#">Passenger Door Module (PDM)</a> (419-10 Multifunction Electronic Modules, Removal and Installation).</p>
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<b>No</b>	<p>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.</p>
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**PINPOINT TEST D : A SPOT LAMP SWITCH INDICATOR IS INOPERATIVE OR ALWAYS ON**

Refer to Wiring Diagrams Cell 124 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
PDM (passenger door module) B15F1:11	Right Spotlight Indicator LED: Circuit Short To Ground	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the PDM (passenger door module) detects a short to ground from the LH (left-hand) spot lamp indicator output circuit.

### RH (right-hand) Spot Lamp

Positive Lead	Measurement / Action	Negative Lead
C652A-24		C652A-1

**Does the inoperative spot lamp switch indicator illuminate?**

<b>Yes</b>	REMOVE the fused jumper wire. GO to <a href="#">D3</a>
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<b>No</b>	REMOVE the fused jumper wire. GO to <a href="#">D2</a>
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### D2 CHECK THE SPOT LAMP SWITCH INDICATOR CIRCUITS FOR AN OPEN

- Ignition OFF.
- Disconnect Spot Lamp Switch C2507 .
- Measure:

#### LH (left-hand) Spot Lamp

Positive Lead	Measurement / Action	Negative Lead
C652A-23	$\Omega$	C2507-1

#### RH (right-hand) Spot Lamp

Positive Lead	Measurement / Action	Negative Lead
C652A-24	$\Omega$	C2507-6

**Is the resistance less than 3 ohms?**