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2003 FORD Fiesta 5 Doors OEM Service and Repair Workshop Manual

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BCM (body control module)	B14E6:08	Left Rear Enhanced Exterior Lighting System: Bus Signal/Message Failure	GO to Pinpoint Test B
BCM (body control module)	B14E8:08	Right Rear Enhanced Exterior Lighting System: Bus Signal/Message Failure	GO to Pinpoint Test B
BCM (body control module)	B14E2:11	Exterior Lamps Power Supply 'E': Circuit Short To Ground	GO to Pinpoint Test B
BCM (body control module)	B14E2:15	Exterior Lamps Power Supply 'E': Circuit Short To Battery Or Open	GO to Pinpoint Test B
BCM (body control module)	B1D02:11	Left High Beam Circuit: Circuit Short To Ground	GO to Pinpoint Test B
BCM (body control module)	B1D02:15	Left High Beam Circuit: Circuit Short To Battery Or Open	GO to Pinpoint Test B

Global Customer Symptom Code (GCSC) Chart

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices.

REFER to: [Diagnostic Methods](#)

(100-00 General Information, Description and Operation).

Global Customer Symptom Code Chart

Customer Symptom	Action
Lighting/Glass/Vision > Exterior Lighting > Reverse/Back Up > Inoperative	GO to Pinpoint Test A
Lighting/Glass/Vision > Exterior Lighting > Reverse/Back Up > Inoperative	GO to Pinpoint Test B
Lighting/Glass/Vision > Exterior Lighting > Reverse/Back Up > Inoperative	GO to Pinpoint Test C
Lighting/Glass/Vision > Exterior Lighting > Reverse/Back Up > Stays On	GO to Pinpoint Test D

Symptom Chart(s)

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices.

REFER to: [Diagnostic Methods](#)

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
BCM (body control module) B1277:11	Reverse Lamp: Circuit Short To Ground	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the BCM (body control module) detects a short to ground from the reversing lamps output circuit.
BCM (body control module) B1277:15	Reverse Lamp: Circuit Short To Battery 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 voltage from the reversing lamps output circuit.

Possible Sources

- Bulb (incandescent rear lamps only)
- Wiring, terminals or connectors
- Gear range concern
- Rear lamp assembly (LED (light emitting diode) rear lamps only)
- BCM (body control module)

Visual Inspection and Pre-checks

- Inspect the bulbs and make sure they are OK.

A1 CHECK THE PCM (POWERTRAIN CONTROL MODULE) TRANSMISSION RANGE PID (PARAMETER IDENTIFICATION)

- Apply the parking brake.
- Ignition ON.
- Access the PCM (powertrain control module) and monitor the TR_CORRECTED (Transmission Range Sensor Position - Corrected) PID (parameter identification)
- Place the gear selector in each gear.

Does the PID (parameter identification) indicate the correct value in each gear selection?

Yes	If both reverse lamps are inoperative, GO to A2 If an individual reverse lamps are inoperative, GO to A4
No	DIAGNOSE the transmission range concern. For 10R80 transmission, with column shift, REFER to: External Controls - Vehicles With: Column Shift

- For LED (light emitting diode) rear lamps, measure:

Positive Lead	Measurement / Action	Negative Lead
C4485-4	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to A3
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No	<p>REPAIR the circuit. After the repair:</p> <p>If no Diagnostic Trouble Codes (DTCs) are present, TEST the system for normal operation.</p> <p>If DTC (diagnostic trouble code) U1000:00 is present, CLEAR the Diagnostic Trouble Codes (DTCs) and REPEAT the self-test (required to enable the lamp output driver if DTC (diagnostic trouble code) U1000:00 is present).</p> <p>If DTC (diagnostic trouble code) U3000:49 is present, INSTALL a new BCM (body control module).</p> <p>REFER to: Body Control Module (BCM) (419-10 Multifunction Electronic Modules, Removal and Installation).</p>
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A3 CHECK THE REVERSING LAMP VOLTAGE CIRCUITS FOR AN OPEN


- For incandescent rear lamps not equipped with BLIS (blind spot information system) , measure:

Positive Lead	Measurement / Action	Negative Lead
C4035-4	Ω	C2280C-11

- For incandescent rear lamps equipped with BLIS (blind spot information system) , measure:


Positive Lead	Measurement / Action	Negative Lead

RH (right-hand) Rear Lamp


Positive Lead	Measurement / Action	Negative Lead
C4032-4		Ground

- For incandescent rear lamps equipped with BLIS (blind spot information system) , measure:

LH (left-hand) Rear Lamp


Positive Lead	Measurement / Action	Negative Lead
C412B-6		Ground

RH (right-hand) Rear Lamp


Positive Lead	Measurement / Action	Negative Lead
C415B-6		Ground

- For LED (light emitting diode) rear lamps, measure:

LH (left-hand) Rear Lamp

Positive Lead	Measurement / Action	Negative Lead
C4485-4		Ground

RH (right-hand) Rear Lamp

Positive Lead	Measurement / Action	Negative Lead
C4484-4		Ground

RH (right-hand) Rear Lamp

Positive Lead	Measurement / Action	Negative Lead
C412B-6	Ω	C2280C-11

- For LED (light emitting diode) rear lamps, measure:

LH (left-hand) Rear Lamp

Positive Lead	Measurement / Action	Negative Lead
C4485-4	Ω	C2280C-11

RH (right-hand) Rear Lamp

Positive Lead	Measurement / Action	Negative Lead
C4484-4	Ω	C2280C-11

Is the resistance less than 3 ohms?

Yes	GO to A7
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No	REPAIR the circuit.
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A6 CHECK THE REVERSING LAMP GROUND CIRCUIT FOR AN OPEN

- For incandescent rear lamps not equipped with BLIS (blind spot information system) , measure:

LH (left-hand) Rear Lamp

Positive Lead	Measurement / Action	Negative Lead
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Positive Lead	Measurement / Action	Negative Lead
C4484-4		C4484-3

Is the voltage greater than 11 volts?

Yes	<p>For an incandescent rear lamp, CHECK the rear lamp harness for open or shorted circuits and damaged or pushed-out pins. If the harness is OK, INSTALL a new reversing lamp bulb. REFER to: Rear Lamp Bulb (417-01 Exterior Lighting, Removal and Installation).</p> <p>If the harness is not OK, REPAIR the harness. If the harness cannot be repaired, INSTALL a new rear lamp harness.</p> <p>For a LED (light emitting diode) rear lamp, CHECK the rear lamp harness for open or shorted circuits and damaged or pushed-out pins. If the harness is OK, INSTALL a new rear lamp assembly. REFER to: Rear Lamp Assembly (417-01 Exterior Lighting, Removal and Installation).</p> <p>If the harness is not OK, REPAIR the harness. If the harness cannot be repaired, INSTALL a new rear lamp harness.</p>
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No	REPAIR the circuit in question.
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A7 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM (body control 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 BCM (body control 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
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B14E8:08	Signal/Message Failures	module) detects an internal failure from the RH (right-hand) rear lamp.
BCM (body control module) B1D02:11	Left High Beam Circuit: Circuit Short To Ground	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the BCM (body control module) detects a short to ground from the LH (left-hand) high beam output circuit.
BCM (body control module) B1D02:15	Left High Beam Circuit: Circuit Short To Battery Or Open	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the BCM (body control module) detects an open from the LH (left-hand) high beam output circuit.

Possible Sources

- Wiring, terminals or connectors
- Gear range concern
- Rear lamp assembly
- BCM (body control module)

B1 CHECK THE PCM (POWERTRAIN CONTROL MODULE) TRANSMISSION RANGE PID (PARAMETER IDENTIFICATION)

- Apply the parking brake.
- Ignition ON.
- Access the PCM (powertrain control module) and monitor the TR_CORRECTED (Transmission Range Sensor Position - Corrected) PID (parameter identification)
- Place the gear selector in each gear.

Does the PID (parameter identification) indicate the correct value in each gear selection?


Yes	If both reverse lamps are inoperative, GO to B2 If an individual reverse lamps are inoperative, GO to B9
No	<p>DIAGNOSE the transmission range concern.</p> <p>For 10R80 transmission, with column shift, REFER to: External Controls - Vehicles With: Column Shift (307-05B Automatic Transmission External Controls - 10-Speed Automatic Transmission – 10R80, Diagnosis and Testing).</p> <p>For 10R80 transmission, with console shift, REFER to: External Controls - Vehicles With: Column Shift</p>

Yes	GO to B5
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No	GO to B3
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B3 REPEAT THE ON-DEMAND SELF-TEST AND CHECK FOR VOLTAGE TO THE REVERSING LAMPS WITH THE LH (LEFT-HAND) REAR LAMP DISCONNECTED

- Place the gear selector lever in PARK (P).
- Using a diagnostic scan tool, perform the BCM (body control module) self-test.
- Clear the DTC (diagnostic trouble code) and repeat the self-test (required to enable the lamp output driver if DTC (diagnostic trouble code) U1000:00 is present).
- Ignition OFF.
- Ignition ON.
- Place the gear selector lever in REVERSE (R).
- For incandescent rear lamps equipped with BLIS (blind spot information system) , measure:

Positive Lead	Measurement / Action	Negative Lead
C498-6		Ground

- For LED (light emitting diode) rear lamps, measure:

Positive Lead	Measurement / Action	Negative Lead
C4485-4		Ground

Is the voltage greater than 11 volts?

Yes	<p>CHECK the rear lamp harness for open or shorted circuits and damaged or pushed-out pins. If the harness is OK, INSTALL a new LH (left-hand) rear lamp assembly.</p> <p>REFER to: Rear Lamp Assembly (417-01 Exterior Lighting, Removal and Installation).</p>
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Yes

CHECK the rear lamp harness for open or shorted circuits and damaged or pushed-out pins. If the harness is OK, INSTALL a new RH (right-hand) rear lamp assembly.

REFER to: [Rear Lamp Assembly](#)

(417-01 Exterior Lighting, Removal and Installation).

If the harness is not OK, REPAIR the harness. If the harness cannot be repaired, INSTALL a new rear lamp harness.

No

GO to [B8](#)

B5 CHECK THE LIN (LOCAL INTERCONNECT NETWORK) CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect: BCM (body control module) C2280F.
- For incandescent rear lamps equipped with BLIS (blind spot information system) , measure:

Positive Lead	Measurement / Action	Negative Lead
C498-8	Ω	C2280F-15

- For LED (light emitting diode) rear lamps, measure:

Positive Lead	Measurement / Action	Negative Lead
C4485-8	Ω	C2280F-15

Is the resistance less than 3 ohms?

Yes

GO to [B6](#)

No

REPAIR the circuit in question.