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.

2004 FORD Fiesta 5 Doors OEM Service and Repair Workshop Manual

Go to manual page

Is any voltage present?

Yes	REPAIR the circuit.

No	GO to I12

I10 CHECK THE INOPERATIVE PARKING LAMP VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: Inoperative LH (left-hand) Exterior Mirror C521.
- Disconnect: Inoperative RH (right-hand) Exterior Mirror C622.
- Disconnect: Inoperative High-Mounted Stoplamp C913.
- Disconnect: Inoperative LH (left-hand) Rear Bed Marker Lamp C4422.
- Disconnect: Inoperative RH (right-hand) Rear Bed Marker Lamp C4423.
- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.
- For an inoperative exterior mirror parking lamp, measure:

  LH (left-hand) Exterior Mirror Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C521-12	V	Ground

  RH (right-hand) Exterior Mirror Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C622-12	V	Ground

- For an inoperative high-mounted stoplamp parking lamp, measure:

Positive Lead	Measurement / Action	Negative Lead

RH (right-hand) Exterior Mirror Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C622-12	V	C622-22

- For an inoperative high-mounted stoplamp parking lamp, measure:

Positive Lead	Measurement / Action	Negative Lead
C913-7	V	C913-12

- For an inoperative rear bed marker lamp, measure:

LH (left-hand) Rear Bed Marker Lamp

Positive Lead	Measurement / Action	Negative Lead
C4422-1	V	C4422-2

RH (right-hand) Rear Bed Marker Lamp

Positive Lead	Measurement / Action	Negative Lead
C4423-1	V	C4423-2

Is the voltage greater than 11 volts?

Yes	For an inoperative exterior mirror parking lamp, vehicles equipped with long arm mirrors, INSTALL a new exterior mirror parking lamp. REFER to: Exterior Mirror - Vehicles With: Long Arm Mirrors (501-09 Rear View Mirrors, Removal and Installation). For an inoperative exterior mirror parking lamp, vehicles equipped with short arm mirrors, INSTALL a new exterior mirror parking lamp.

PINPOINT TEST J : ONE OR MORE REAR PARKING LAMPS ARE INOPERATIVE OR ALWAYS ON

Refer to Wiring Diagrams Cell 92for 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) B10F3:11	Left front position light: 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) front parking lamps output circuit, used for the LH (left-hand) rear parking lamps.
BCM (body control module) B10F3:15	Left front position light: 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 LH (left-hand) front parking lamps output circuit, used for the LH (left-hand) rear parking lamps.
BCM (body control module) B10F4:11	Right front position light: 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 RH (right-hand) front parking lamps output circuit, used for the RH (right-hand) rear parking lamps.
BCM (body control module) B10F4:15	Right front position light: 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 RH (right-hand) front parking lamps output circuit, used for the RH (right-hand) rear parking lamps.
BCM (body control module) B149E:11	Left Front Position/Sidemarker: 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) front parking lamps output circuit, used for the LH (left-hand) rear parking lamps.

		(right-hand) parking lamps output circuit, used for the RH (right-hand) rear parking lamps.

Possible Sources

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

J1 DETERMINE IF ALL THE REAR PARKING LAMPS ARE INOPERATIVE

- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position and observe all the rear parking lamps.
- Place the headlamp switch in the OFF position and observe all the parking lamps.

Are any of the rear parking lamps always on?

Yes	If one or more of the parking lamps are always on, GO to J2 If all the parking lamps are always on, GO to J8

No	If one of the rear parking lamps is inoperative, GO to J3 If all parking lamps are inoperative, GO to J8

J2 CHECK THE BCM (BODY CONTROL MODULE) PARKING LAMP OUTPUT CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect: BCM (body control module) C2280E.
- Ignition ON.

Do the rear parking lamps continue to illuminate?

Yes	REPAIR the affected circuit.

No	GO to J8

Positive Lead	Measurement / Action	Negative Lead
C415A-2	V	Ground

- For LED (light emitting diode) rear lamps, measure:
  LH (left-hand) Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C4483-10	V	Ground

RH (right-hand) Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C4484-10	V	Ground

Is the voltage greater than 11 volts?

Yes	GO to J5

No	GO to J4

J4 REPEAT THE ON-DEMAND SELF-TEST AND CHECK FOR VOLTAGE TO THE REAR PARKING LAMP

- Place the headlamp switch in the OFF position.
- Using a diagnostic scan tool, perform the BCM (body control module) self-test.
- Clear the Diagnostic Trouble Codes (DTCs) and repeat the self-test (required to enable the lamp output driver).
- Ignition OFF.
- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.

C4483-10	V	Ground

RH (right-hand) Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C4484-10	V	Ground

Is the voltage greater than 11 volts?

Yes	For incandescent rear lamps, CHECK the rear lamp jumper harness between the vehicle harness and the rear lamp bulbs for open circuits and damaged or pushed-out pins. If the jumper harness is OK, INSTALL a new rear lamp bulb. REFER to: Rear Lamp Bulb (417-01 Exterior Lighting, Removal and Installation). If the harness cannot be repaired, INSTALL a new rear lamp jumper harness. 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). If the harness is not OK, REPAIR the harness. If the harness cannot be repaired, INSTALL a new rear lamp harness.

No	GO to J6

J5 CHECK THE REAR PARKING LAMP GROUND CIRCUIT

- For incandescent rear lamps not equipped with BLIS (blind spot information system) , measure:
  LH (left-hand) Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead

Positive Lead	Measurement / Action	Negative Lead
C4484-10	V	C4484-3

Is the voltage greater than 11 volts?

Yes	For incandescent rear lamps, CHECK the rear lamp jumper harness between the vehicle harness and the rear lamp bulbs for open circuits and damaged or pushed-out pins. If the jumper harness is OK, INSTALL a new rear lamp bulb. REFER to: Rear Lamp Bulb (417-01 Exterior Lighting, Removal and Installation). If the harness cannot be repaired, INSTALL a new rear lamp jumper harness. 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). If the harness is not OK, REPAIR the harness. If the harness cannot be repaired, INSTALL a new rear lamp harness.

No	REPAIR the circuit in question.

J6 CHECK THE REAR PARKING LAMP SUPPLY CIRCUIT FOR AN OPEN

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: BCM (body control module) C2280E.
- For incandescent rear lamps not equipped with BLIS (blind spot information system) , measure:
  LH (left-hand) Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C4035-2	Ω	C2280E-25

Is the resistance less than 3 ohms?

Yes	GO to J7

No	REPAIR the circuit in question.

J7 CHECK VOLTAGE CIRCUIT TO THE REAR PARKING LAMP FOR A SHORT TO GROUND

- For incandescent rear lamps not equipped with BLIS (blind spot information system) , measure:
  LH (left-hand) Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C4035-2	Ω	Ground

  RH (right-hand) Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C4032-2	Ω	Ground

- For incandescent rear lamps equipped with BLIS (blind spot information system) , measure:
  LH (left-hand) Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C412A-2	Ω	Ground

  RH (right-hand) Rear Parking Lamp

J8 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 FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new BCM (body control module) . REFER to: Body Control Module (BCM) (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.