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1999 FORD Fiesta 5 Doors OEM Service and Repair Workshop Manual

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G3 CHECK THE LICENSE PLATE LAMP VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: Inoperative LH (left-hand) License Plate Lamp C452 or RH (right-hand) License Plate Lamp C462.
- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.
- Measure:

LH (left-hand) License Plate Lamp

Positive Lead	Measurement / Action	Negative Lead
C452-2		Ground

RH (right-hand) License Plate Lamp

Positive Lead	Measurement / Action	Negative Lead
C462-2		Ground

Is the voltage greater than 11 volts?

Yes	GO to G4
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No	REPAIR the circuit.
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G4 CHECK THE LICENSE PLATE LAMP GROUND CIRCUIT FOR AN OPEN

- Measure:

LH (left-hand) License Plate Lamp

Positive Lead	Measurement / Action	Negative Lead
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No GO to [G6](#)

G6 CHECK THE LICENSE PLATE LAMPS VOLTAGE SUPPLY CIRCUIT FOR SHORT TO GROUND

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: BCM (body control module) C2280E.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C452-2	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes GO to [G7](#)

No REPAIR the circuit.

G7 CHECK THE LICENSE PLATE LAMPS VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C452-2	Ω	C2280E-48

Is the resistance less than 3 ohms?

Yes REPAIR the license plate lamps ground circuit for an open.

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
BCM (body control module) B1445:11	Rear Park Lamps Output: 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 rear parking lamp output, used for the exterior mirror parking lamps circuit.
BCM (body control module) B1445:15	Rear Park Lamps Output: 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 rear parking lamp output, used for the exterior mirror parking lamps circuit.
BCM (body control module) B14A2:11	Tailgate/Liftgate Applique Lamps: 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 rear parking lamp output, used for the exterior mirror parking lamps circuit.
BCM (body control module) B14A2:15	Tailgate/Liftgate Applique Lamps: 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 rear parking lamp output, used for the exterior mirror parking lamps circuit.

Possible Sources

- Exterior mirror parking lamp
- Wiring, terminals or connectors
- BCM (body control module)

H1 DETERMINE WHICH EXTERIOR MIRROR PARKING LAMPS ARE INOPERATIVE


- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.
- Observe the exterior mirror parking lamps.
- Place the headlamp switch in the OFF position.
- Observe the exterior mirror parking lamps.

Are both exterior mirror parking lamps inoperative?

H3 REPEAT THE ON-DEMAND SELF-TEST AND CHECK THE EXTERIOR MIRROR PARKING LAMPS VOLTAGE SUPPLY CIRCUIT FOR VOLTAGE WITH THE RH (RIGHT-HAND) EXTERIOR MIRROR DISCONNECTED

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: RH (right-hand) Exterior Mirror C622.
- Ignition ON.
- CLEAR the Diagnostic Trouble Codes (DTCs), REPEAT the self-test (required to enable the lamp output driver) and cycle the ignition OFF and ON. REPEAT the self-test.
- Place the headlamp switch in the PARKING LAMPS position.
- Measure:

RH (right-hand) Exterior Mirror Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C622-12		Ground

Is the voltage greater than 11 volts?

Yes	INSTALL a new RH (right-hand) exterior mirror parking lamp. REFER to: Exterior Mirror - Vehicles With: Long Arm Mirrors (501-09 Rear View Mirrors, Removal and Installation). REFER to: Exterior Mirror - Vehicles With: Short Arm Mirrors (501-09 Rear View Mirrors, Removal and Installation).
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No	GO to H4
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H4 CHECK THE EXTERIOR MIRROR PARKING LAMPS VOLTAGE SUPPLY CIRCUIT FOR A SHORT TO GROUND

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: BCM (body control module) C2280C.
- Measure:

LH (left-hand) Exterior Mirror Parking Lamp


No

REPAIR the circuit.

H6 CHECK THE EXTERIOR MIRROR PARKING LAMPS VOLTAGE SUPPLY CIRCUIT FOR A SHORT TO VOLTAGE

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: BCM (body control module) C2280C.
- Ignition ON.
- Measure:

LH (left-hand) Exterior Mirror Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C2280C-12		Ground

Is any voltage present?

Yes

REPAIR the circuit.

No

GO to [H9](#)

H7 CHECK THE INOPERATIVE EXTERIOR MIRROR 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 or RH (right-hand) Exterior Mirror C622.
- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.
- Measure:

LH (left-hand) Exterior Mirror Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
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Is the voltage greater than 11 volts?

Yes	INSTALL a new exterior mirror parking lamp. REFER to: Exterior Mirror - Vehicles With: Long Arm Mirrors (501-09 Rear View Mirrors, Removal and Installation). REFER to: Exterior Mirror - Vehicles With: Short Arm Mirrors (501-09 Rear View Mirrors, Removal and Installation).
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No	REPAIR the circuit.
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H9 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM (body control module) and all related in-line 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) and all related in-line 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.

Possible Sources

- High-mounted stoplamp
- Wiring, terminals or connectors
- BCM (body control module)

I1 DETERMINE WHICH PARKING LAMPS ARE INOPERATIVE

- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.
- Observe the exterior mirror parking lamps.
- Place the headlamp switch in the OFF position.
- Observe the exterior mirror parking lamps.
- Observe the high-mounted stoplamp parking lamp.
- Observe the rear bed marker lamps.

Are all the exterior mirror parking lamps, high-mounted stoplamp parking lamps and rear bed marker lamps inoperative?

Yes

GO to [I2](#)

No

If an individual parking lamp is inoperative, GO to [I10](#). If all the exterior mirror parking lamps, high-mounted stoplamp parking lamps or rear bed marker lamps are always on, GO to [I9](#).

I2 REPEAT THE ON-DEMAND SELF-TEST AND CHECK THE EXTERIOR MIRROR PARKING LAMPS VOLTAGE SUPPLY CIRCUIT FOR VOLTAGE WITH THE LH (LEFT-HAND) EXTERIOR MIRROR DISCONNECTED

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: LH (left-hand) Exterior Mirror C521.
- Ignition ON.
- CLEAR the Diagnostic Trouble Codes (DTCs), REPEAT the self-test (required to enable the lamp output driver) and cycle the ignition OFF and ON. REPEAT the self-test.
- Place the headlamp switch in the PARKING LAMPS position.
- Measure:

LH (left-hand) Exterior Mirror Parking Lamp

Positive Lead

Measurement / Action

Negative Lead


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

No GO to [I4](#)

I4 REPEAT THE ON-DEMAND SELF-TEST AND CHECK THE HIGH-MOUNTED STOPLAMP PARKING LAMPS VOLTAGE SUPPLY CIRCUIT FOR VOLTAGE WITH THE HIGH-MOUNTED STOPLAMP DISCONNECTED

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: High-Mounted Stoplamp C913.
- Ignition ON.
- CLEAR the Diagnostic Trouble Codes (DTCs), REPEAT the self-test (required to enable the lamp output driver) and cycle the ignition OFF and ON. REPEAT the self-test.
- Place the headlamp switch in the PARKING LAMPS position.
- Measure:

High-Mounted Stoplamp Parking Lamp


Positive Lead	Measurement / Action	Negative Lead
C913-7		Ground

Is the voltage greater than 11 volts?

Yes INSTALL a new high-mounted stoplamp.
REFER to: [High Mounted Stoplamp](#)
(417-01 Exterior Lighting, Removal and Installation).

No GO to [I5](#)

I5 REPEAT THE ON-DEMAND SELF-TEST AND CHECK THE REAR BED MARKER LAMPS VOLTAGE SUPPLY CIRCUIT FOR VOLTAGE WITH THE LH (LEFT-HAND) REAR BED MARKER LAMP DISCONNECTED

C4423-1		Ground
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Is the voltage greater than 11 volts?

Yes	INSTALL a new RH (right-hand) bed marker lamp.
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No	GO to I7
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I7 CHECK THE EXTERIOR MIRROR PARKING LAMPS VOLTAGE SUPPLY CIRCUIT FOR A SHORT TO GROUND

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: BCM (body control module) C2280C.
- Measure:

LH (left-hand) Exterior Mirror Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C2280C-12	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to I8
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No	REPAIR the circuit. After the repair: If no Diagnostic Trouble Codes (DTCs) are present, TEST the system for normal operation. If any BCM (body control module) Diagnostic Trouble Codes (DTCs) other than DTC (diagnostic trouble code) U3000:49 are present, CLEAR the Diagnostic Trouble Codes (DTCs), REPEAT the self-test (required to enable the lamp output driver) and cycle the ignition OFF and ON. TEST the system for normal operation.
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