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1995 FORD Fiesta 5 Doors OEM Service and Repair Workshop Manual

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	(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 B : AN INDIVIDUAL OR BOTH LICENSE PLATE 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).

Possible Sources

- Wiring, terminals or connectors
- License plate lamp
- BCM (body control module)

B1 DETERMINE IF THE LICENSE PLATE LAMPS ARE INOPERATIVE

- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.
- Observe the license plate lamps.

Are both the license plate lamps inoperative?

Yes	GO to B5

No	For an individual license plate lamp inoperative, GO to B3 If the license plate lamps are always on, GO to B2

B2 CHECK THE LICENSE PLATE LAMPS VOLTAGE SUPPLY CIRCUIT FOR A SHORT TO VOLTAGE

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

- 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	V	Ground

RH (right-hand) License Plate Lamp

Positive Lead	Measurement / Action	Negative Lead
C462-2	V	Ground

Is the voltage greater than 11 volts?

Yes	GO to B4

No	REPAIR the circuit.

B4 CHECK THE LICENSE PLATE LAMP GROUND CIRCUIT FOR AN OPEN

- Measure:
  LH (left-hand) License Plate Lamp

Positive Lead	Measurement / Action	Negative Lead

No	GO to B6

B6 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 B7

No	REPAIR the circuit.

B7 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 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 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 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 circuit.

Possible Sources

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

C1 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?

Yes	GO to C2

- 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	V	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).
No	GO to C4

C4 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

No	REPAIR the circuit.

C6 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	V⎓	Ground

Is any voltage present?

Yes	REPAIR the circuit.

No	GO to C9

C7 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

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).
No	REPAIR the circuit.

C9 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.

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

BCM (body control module) B149F:11	Right 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 RH (right-hand) front parking lamps output circuit.
BCM (body control module) B149F:15	Right Front Position/Sidemarker: 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.
BCM (body control module) B14B2:11	Left Position 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 LH (left-hand) front parking lamps output circuit.
BCM (body control module) B14B2:15	Left Position 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 LH (left-hand) front parking lamps output circuit.
BCM (body control module) B14B3:11	Right Position 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 RH (right-hand) front parking lamps output circuit.
BCM (body control module) B14B3:15	Right Position 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 RH (right-hand) front parking lamps output circuit.

Possible Sources

- Wiring, terminals or connectors
- Rear lamp assembly
- Tailgate parking lamp (part of the reversing lamp)
- BCM (body control module)

D1 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.

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

Rear Lightbar Applique (liftgate parking lamp)

Positive Lead	Measurement / Action	Negative Lead
C4629-3	V	Ground

Is the voltage greater than 11 volts?

Yes	GO to D5

No	GO to D4

D4 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.