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## 1996 FORD Fiesta 5 Doors OEM Service and Repair Workshop Manual

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A module does not respond to the diagnostic scan tool	<ul style="list-style-type: none"> <li>• Fuse</li> <li>• Wiring, terminals or connectors</li> <li>• Module</li> </ul>	REFER to: <a href="#">Controller Area Network (CAN) Module Communications Network - Electric(418-00A</a> Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
The front parking or side marker lamps are inoperative, always on or do not operate correctly	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test A</a>
An individual or both license plate lamps are inoperative or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test B</a>
An individual or both exterior mirror parking lamps are inoperative or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test C</a>
One or more rear parking lamps are inoperative or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test D</a>

## Pinpoint Tests

### PINPOINT TEST A : THE FRONT PARKING OR SIDE MARKER LAMPS ARE INOPERATIVE, ALWAYS ON OR DO NOT OPERATE CORRECTLY

Refer to Wiring Diagrams Cell 85 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
LDCMA (Lighting Driver Control)	Left Front Position/Sidemarkers: Circuit	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the LDCMA

Module B) B149F:13	Open	(Lighting Driver Control Module B) detects an open from the RH (right-hand) headlamp internal parking lamp circuit.
LDCMB (Lighting Driver Control Module B) B149F:16	Right Front Position/Sidemarkers: Circuit Voltage Below Threshold	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the LDCMA (Lighting Driver Control Module A) detects a low voltage on the LH (left-hand) headlamp internal parking lamp circuit.
LDCMB (Lighting Driver Control Module B) B149F:87	Right Front Position/Sidemarkers: Missing Message	A continuous memory DTC (diagnostic trouble code) that sets when the LDCMB (Lighting Driver Control Module B) detects a missing message from the HCM (headlamp control module).

### Possible Sources

- Wiring, terminals or connectors
- LDCMA (Lighting Driver Control Module A) ( LH (left-hand) headlamp)
- LDCMB (Lighting Driver Control Module B) ( RH (right-hand) headlamp)
- BCM (body control module)

### Visual Inspection and Pre-checks

- Verify the BCMC (body control module C) (also known as the BJB (battery junction box) ) fuse 100 (25A) ( LH (left-hand) headlamp) or fuse 101 (25A) ( RH (right-hand) headlamp) is OK.

## A1 CHECK THE HIGH BEAM AND FRONT TURN SIGNAL LAMP OPERATION

- Ignition ON.
- Place the headlamp switch in the HEADLAMPS position..
- Place the LH (left-hand) steering column multifunction switch in the HIGH BEAM position and observe the headlamps.
- Activate the hazard lamp function and observe the front turn signal lamps.

**Are the LH (left-hand) high beams, front parking lamps and turn signals all inoperative or are the RH (right-hand) high beams, front parking lamps and turn signals all inoperative?**

<b>Yes</b>	VERIFY the BCMC (body control module C) (also known as the BJB (battery junction box) ) fuse 100 (25A) ( LH (left-hand) headlamp) or fuse 101 (25A) ( RH (right-hand) headlamp) is OK. If OK, GO to <a href="#">A2</a> If not OK, REFER to the Wiring Diagrams manual to identify the possible causes of the circuit short.
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<b>Yes</b>	GO to <a href="#">A3</a>
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<b>No</b>	REPAIR the circuit.
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**A3 CHECK THE HEADLAMP MOUNTED LDCM (LIGHTING DRIVER CONTROL MODULE) GROUND CIRCUITS FOR AN OPEN**

- Measure:

**LH (left-hand) Headlamp**

Positive Lead	Measurement / Action	Negative Lead
C1509-3		C1509-2
C1509-3		C1509-4

**RH (right-hand) Headlamp**

Positive Lead	Measurement / Action	Negative Lead
C1510-3		C1510-2
C1510-3		C1510-4

**Is the voltage greater than 11 volts?**


<b>Yes</b>	GO to <a href="#">A20</a>
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<b>Yes</b>	INSTALL a new grill fascia lamp (grille mounted parking lamp). REFER to: <a href="#">Grille Fascia Lamp - Electric</a> (417-01 Exterior Lighting, Removal and Installation).
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<b>No</b>	REPAIR the circuit.
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**A6 CHECK THE GRILLE MOUNTED PARKING LAMP LED (LIGHT EMITTING DIODE) RETURN CIRCUITS FOR A SHORT TO VOLTAGE**

- Ignition OFF.
- Disconnect: Front Light Bar C1004.
- Disconnect: For the LH (left-hand) side of the grille mounted parking lamp inoperative, LH (left-hand) Headlamp C1509.
- Disconnect: For the RH (right-hand) side of the grille mounted parking lamp inoperative, RH (right-hand) Headlamp C1510.
- Ignition ON.
- For inoperative LH (left-hand) side of the grille mounted parking lamp, measure:

Positive Lead	Measurement / Action	Negative Lead
C1004-4		Ground



- For inoperative RH (right-hand) side of the grille mounted parking lamp, measure:

Positive Lead	Measurement / Action	Negative Lead
C1004-9		Ground



**Is any voltage present?**

<b>Yes</b>	REPAIR the circuit.
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- For an issue on the LH (left-hand) side of the grille mounted parking lamp, measure:

Positive Lead	Measurement / Action	Negative Lead
C1004-1		Ground
C1004-2		Ground

- For an issue on the RH (right-hand) side of the grille mounted parking lamp, measure:

Positive Lead	Measurement / Action	Negative Lead
C1004-6		Ground
C1004-7		Ground

**Is the voltage approximately 32 volts?**

<b>Yes</b>	GO to <a href="#">A9</a>
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<b>No</b>	REPAIR the circuit in question.
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### **A9 CHECK THE GRILLE MOUNTED PARKING LAMP VOLTAGE CIRCUIT 3 FOR VOLTAGE**

- For an issue on the LH (left-hand) side of the grille mounted parking lamp, measure:

Positive Lead	Measurement / Action	Negative Lead
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Positive Lead	Measurement / Action	Negative Lead
C1004-6	$\Omega$	Ground
C1004-7	$\Omega$	Ground
C1004-8	$\Omega$	Ground

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

<b>Yes</b>	GO to <a href="#">A11</a>
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<b>No</b>	REPAIR the circuit in question.
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#### **A11 CHECK THE GRILLE MOUNTED PARKING LAMP VOLTAGE CIRCUITS FOR AN OPEN**

- Ignition OFF.
- For an issue on the LH (left-hand) side of the grille mounted parking lamp, measure:

Positive Lead	Measurement / Action	Negative Lead
C1004-1	$\Omega$	C1509-9
C1004-2	$\Omega$	C1509-10
C1004-3	$\Omega$	C1509-11

- For an issue on the RH (right-hand) side of the grille mounted parking lamp, measure:

Driver Control Module) programming.

### **A13 CHECK THE HEADLAMP MOUNTED LDCM (LIGHTING DRIVER CONTROL MODULE) FOR DRL (DAYTIME RUNNING LAMPS) OPERATION**

- Ignition OFF.
- INSTALL a new LDCM (Lighting Driver Control Module) on the headlamp of the same side as the grille mounted parking lamp issue.  
REFER to: [Lighting Driver Control Module - Electric](#)(417-01 Exterior Lighting, Removal and Installation).
- Ignition ON.
- For an issue with the LH (left-hand) side of the grille mounted parking lamp, using a diagnostic scan tool, complete the PMI (programmable module installation) process for the LDCMA (Lighting Driver Control Module A) ( LH (left-hand) headlamp) following the on-screen instructions.
- For an issue with the RH (right-hand) side of the grille mounted parking lamp, using a diagnostic scan tool, complete the PMI (programmable module installation) process for the LDCMB (Lighting Driver Control Module B) ( RH (right-hand) headlamp) following the on-screen instructions.
- 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.
- Operate the vehicle and observe the DRL (daytime running lamps) .

**Is the concern still present or does any Diagnostic Trouble Codes (DTCs) return?**

<b>Yes</b>	GO to <a href="#">A14</a>
<b>No</b>	The system is operating correctly at this time. The concern may was caused by the LDCM (Lighting Driver Control Module) .

### **A14 CHECK THE GRILLE MOUNTED PARKING LAMP**

- Ignition OFF.
- INSTALL a new grill fascia lamp (grille mounted parking lamp).  
REFER to: [Grille Fascia Lamp - Electric](#)(417-01 Exterior Lighting, Removal and Installation).
- Ignition ON.
- For an issue with the LH (left-hand) side of the grille mounted parking lamp, using a diagnostic scan tool, complete the PMI (programmable module installation) process for the LDCMA (Lighting Driver Control Module A) ( LH (left-hand) headlamp) following the on-screen instructions.
- For an issue with the RH (right-hand) side of the grille mounted parking lamp, using a diagnostic scan tool, complete the PMI (programmable module installation) process for the LDCMB (Lighting Driver



Is LDCMA (Lighting Driver Control Module A) DTC (diagnostic trouble code) B124B:16, B124B:1E or B124B:4B or LDCMB (Lighting Driver Control Module B) DTC (diagnostic trouble code) B124A:16, B124A:1E or B124A:4B present?

<b>Yes</b>	GO to <a href="#">A20</a>
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<b>No</b>	GO to <a href="#">A17</a>
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### A17 RECHECK THE PARKING LAMPS

- Place the headlamp switch in the PARKING LAMPS position..

**Do the front parking lamps operate correctly?**


<b>Yes</b>	INSPECT the headlamp and LDCM (Lighting Driver Control Module) for damage or debris. The DTC (diagnostic trouble code) set and DRL (daytime running lamps) stopped working do to the headlamp or LDCM (Lighting Driver Control Module) overheating.
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<b>No</b>	GO to <a href="#">A18</a>
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### A18 CHECK THE HEADLAMP MOUNTED LDCM (LIGHTING DRIVER CONTROL MODULE) VOLTAGE CIRCUITS FOR AN OPEN

- Ignition OFF.
- Disconnect: Suspect LH (left-hand) Headlamp C1509 or RH (right-hand) Headlamp C1510.
- Ignition ON.
- Measure:

#### LH (left-hand) Headlamp

Positive Lead	Measurement / Action	Negative Lead
C1509-3		Ground

Positive Lead	Measurement / Action	Negative Lead
C1510-3	V	C1510-2
C1510-5	V	C1510-4

**Is the voltage greater than 11 volts?**

<b>Yes</b>	GO to <a href="#">A20</a>
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<b>No</b>	REPAIR the circuit.
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#### **A20 CHECK THE HEADLAMP**

- Place the headlamp switch in the OFF position..
- Ignition OFF.
- Substitute the known good headlamp assembly from the opposite side of the vehicle.
- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position..
- 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.

**Is the concern still present or do the Diagnostic Trouble Codes (DTCs) return?**

<b>Yes</b>	GO to <a href="#">A22</a>
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<b>No</b>	GO to <a href="#">A21</a>
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#### **A21 CHECK THE HEADLAMP MOUNTED LDCM (LIGHTING DRIVER CONTROL MODULE)**

- Place the headlamp switch in the OFF position..
- Ignition OFF.