

Parking, Rear and License Plate Lamps

DTC Chart: Body Control Module (BCM)

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).

DTC Chart

DTC	Description	Action
B10F3:11	Left Front Position Light: Circuit Short to Ground	GO to Pinpoint Test F
B10F3:15	Left Front Position Light: Circuit Short to Battery or Open	GO to Pinpoint Test F
B10F4:11	Right Front Position Light: Circuit Short to Ground	GO to Pinpoint Test F
B10F4:15	Right Front Position Light: Circuit Short to Battery or Open	GO to Pinpoint Test F
B1445:11	Rear Park Lamps Output: Circuit Short to Ground	GO to Pinpoint Test J
B1445:15	Rear Park Lamps Output: Circuit Short to Battery or Open	• If the lamps are inoperative, GO to Pinpoint Test J • If the lamps are always on, GO to Pinpoint Test K

B1446:11	Front Park Lamps Output: Circuit Short To Ground	GO to Pinpoint Test B
B1446:15	Front Park Lamps Output: Circuit Short To Battery or Open	• If the lamps are inoperative, GO to Pinpoint Test B All Front Parking And, If Equipped, Front Side Fender Marker, Grille Marker And Rear Bed Marker Lamps Are Inoperative • If the lamps are always on, GO to Pinpoint Test C
B1447:11	Parklamp On Switch Input: Circuit Short to Ground	GO to Pinpoint Test A
B149E:11	Left Front Position/ Sidemarker: Circuit Short To Ground	GO to Pinpoint Test F
B149E:15	Left Front Position/ Sidemarker: Circuit Short To Battery or Open	GO to Pinpoint Test F
B149F:11	Right Front Position/ Sidemarker: Circuit Short To Ground	GO to Pinpoint Test F
B149F:15	Right Front Position/ Sidemarker: Circuit Short To Battery or Open	GO to Pinpoint Test F
U1000:00	Solid State Driver Protection Active -Driver Disabled: No Sub Type Information	The module has temporarily disabled an output because an excessive current draw exists (such as a short to ground). The BCM cannot enable the output until the cause of the short is corrected. ADDRESS all other Diagnostic Trouble Codes (DTCs) first. After the cause of the concern is corrected, CLEAR the Diagnostic Trouble Codes (DTCs). REPEAT the self-test.

U3000:49	Control Module: Internal Electronic Failure	The module has permanently disabled an output because an excessive current draw fault (such as a short to ground) has exceeded the limits that the BCM can withstand. The cause of the excessive current draw MUST be corrected before a new BCM is installed. ADDRESS all other Diagnostic Trouble Codes (DTCs) first. After the cause of the concern is corrected,  Click here to access Guided Routine (BCM).
For other BCM Diagnostic Trouble Codes (DTCs)	-	REFER to: Body Control Module (BCM) (419-10 Multifunction Electronic Modules) .

Symptom Chart(s)

Symptom Chart: Parking, Rear and License Plate Lamps

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).

Symptom Chart

Condition	Possible Sources	Actions
A module does not respond to the diagnostic scan tool	• Fuse • Wiring, terminals or connectors • Module	REFER to: Communications Network (418-00 Module Communications Network) .
All the parking lamps are always on	Refer to the Pinpoint Test	GO to Pinpoint Test A

All front parking and, if equipped, front side fender marker, grille marker and rear bed marker lamps are inoperative	Refer to the Pinpoint Test	GO to Pinpoint Test B
All front parking and, if equipped, front side fender marker, grille marker and rear bed marker lamps are always on	Refer to the Pinpoint Test	GO to Pinpoint Test C
An individual front parking lamp is inoperative - halogen headlamps	Refer to the Pinpoint Test	GO to Pinpoint Test D
An individual front parking lamp is inoperative - LED or High Intensity Discharge (HID) headlamps	Refer to the Pinpoint Test	GO to Pinpoint Test E
An individual front side marker lamp is inoperative or always on - halogen headlamps	Refer to the Pinpoint Test	GO to Pinpoint Test F
An individual front side marker lamp is inoperative - LED headlamps	Refer to the Pinpoint Test	Install a new headlamp assembly. REFER to: Headlamp Assembly (417-01 Exterior Lighting) .
An individual front side fender marker or rear bed marker lamp is inoperative	Refer to the Pinpoint Test	GO to Pinpoint Test H
An individual or all grille marker lamps only are inoperative	Refer to the Pinpoint Test	GO to Pinpoint Test I

An individual or all rear parking, license plate and, if equipped, exterior mirror, roof marker and high-mounted stoplamp parking lamps are inoperative	Refer to the Pinpoint Test	GO to Pinpoint Test J
All rear parking, license plate and, if equipped, exterior mirror, roof marker and high-mounted stoplamp parking lamps are always on	Refer to the Pinpoint Test	GO to Pinpoint Test K
All rear parking, license plate and, if equipped, rear bed marker lamps are inoperative	Refer to the Pinpoint Test	REPAIR the rear parking, license plate and, if equipped, rear bed marker lamps ground circuit for an open.
An individual roof marker lamp is inoperative	Refer to the Pinpoint Test	GO to Pinpoint Test G
An individual or both exterior mirror parking lamps and/or the high-mounted stoplamp parking lamp is inoperative	Refer to the Pinpoint Test	GO to Pinpoint Test L

Pinpoint Tests

All The Parking Lamps Are Always On

Refer to Wiring Diagrams Cell 92 for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Exterior Lighting (417-01 Exterior Lighting) .

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
B1447:11	Parklamp On Switch Input: Circuit Short to Ground	An on-demand DTC that sets when the BCM detects a short to ground on the parklamps on input circuit.

Possible Sources

- Wiring, terminals or connectors
- Headlamp switch
- BCM

Visual Inspection and Diagnostic Pre-checks

- Inspect the headlamp switch for damage.

PINPOINT TEST A : ALL THE PARKING LAMPS ARE ALWAYS ON

A1 CHECK LOW BEAMS OPERATION	
• Ignition ON. • Place the headlamp switch in the OFF position. • Observe the operation of the low beam headlamps.	
Are the low beams illuminated?	
Yes	REFER to: Headlamps (417-01 Exterior Lighting, Diagnosis and Testing).
No	GO to A2

A2 CHECK THE HEADLAMP SWITCH

- Ignition OFF.
- Disconnect: Headlamp Switch C205.
- Carry out the headlamp switch component test.
Refer to Wiring Diagrams Cell 149 for schematic and connector information.

Does the headlamp switch pass the component test?

Yes	GO to A3
No	INSTALL a new headlamp switch. REFER to: Headlamp Switch (417-01 Exterior Lighting, Removal and Installation).

A3 CHECK THE HEADLAMP SWITCH PARKING LAMPS CIRCUIT FOR A SHORT TO GROUND

Is the resistance greater than 10,000 ohms?

Yes	GO to A4
No	REPAIR the circuit.

A4 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM 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 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 for any applicable Technical Service Bulletins (TSBs). If a TSB exists for this concern, DISCONTINUE this test and FOLLOW TSB instructions. If no Technical Service Bulletins (TSBs) address this concern,  Click here to access Guided Routine (BCM).
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.

All Front Parking And, If Equipped, Front Side Fender Marker, Grille Marker And Rear Bed Marker Lamps Are Inoperative

Refer to Wiring Diagrams Cell 92 for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Exterior Lighting (417-01 Exterior Lighting) .

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
B1446:11	Front Park Lamps Output: Circuit Short To Ground	A continuous memory and on-demand DTC that sets when the BCM detects a short to ground from the front parking lamp output circuit.
B1446:15	Front Park Lamps Output: Circuit Short To Battery or Open	A continuous memory and on-demand DTC that sets when the BCM detects an open from the front parking lamp output circuit.

U1000:00	Solid State Driver Protection Active -Driver Disabled: No Sub Type Information	This DTC sets when the BCM has temporarily shut down the output driver. The module has temporarily disabled an output because an excessive current draw exists (such as a short to ground). The BCM cannot enable the output until the cause of the short is corrected, the Diagnostic Trouble Codes (DTCs) have been cleared and a successful self-test is run.
U3000:49	Control Module: Internal Electronic Failure	This DTC sets when the BCM has permanently shut down the output driver. The module has permanently disabled an output because an excessive current draw fault (such as a short to ground) has exceeded the limits that the BCM can withstand. CORRECT the cause of the excessive current draw before installing a new BCM.

Possible Sources

- Wiring, terminals or connectors
- BCM

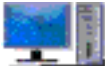
PINPOINT TEST B : ALL FRONT PARKING AND, IF EQUIPPED, FRONT SIDE FENDER MARKER, GRILLE MARKER AND REAR BED MARKER LAMPS ARE INOPERATIVE

B1 BYPASS THE BCM (BODY CONTROL MODULE)

NOTE: If the fused jumper wire fails, refer to the Wiring Diagrams Manual to identify the possible causes of the circuit short. After the repair:

If no Diagnostic Trouble Codes (DTCs) are present, test the system for normal operation.

If DTC U1000:00 is present, CLEAR the Diagnostic Trouble Codes (DTCs) and REPEAT the self-test (required to enable the lamp output driver if DTC U1000:00 is present).

If DTC U3000:49 is present,   [Click here to access Guided Routine \(BCM\).](#)

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: BCM C2280G.

Do the front parking and, if equipped, front side fender marker, grille marker and rear bed marker lamps illuminate?

Yes	GO to B2
No	REPAIR the front parking and, if equipped, front side fender marker, grille marker and rear bed marker lamps supply circuit for an open.

B2 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM 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 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 for any applicable Technical Service Bulletins (TSBs). If a TSB exists for this concern, DISCONTINUE this test and FOLLOW TSB instructions. If no Technical Service Bulletins (TSBs) address this concern,  Click here to access Guided Routine (BCM).
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.

All Front Parking And, If Equipped, Front Side Fender Marker, Grille Marker And Rear Bed Marker Lamps Are Always On

Refer to Wiring Diagrams Cell 92 for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Exterior Lighting (417-01 Exterior Lighting) .

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
B1446:15	Front Park Lamps Output: Circuit Short To Battery or Open	A continuous memory and on-demand DTC that sets when the BCM detects a short to voltage from the front parking lamp output circuit.
U1000:00	Solid State Driver Protection Active -Driver Disabled: No Sub Type Information	This DTC sets when the BCM has temporarily shut down the output driver. The module has temporarily disabled an output because an excessive current draw exists (such as a short to ground). The BCM cannot enable the output until the cause of the short is corrected, the Diagnostic Trouble Codes (DTCs) have been cleared and a successful self-test is run.

U3000:49	Control Module: Internal Electronic Failure	This DTC sets when the BCM has permanently shut down the output driver. The module has permanently disabled an output because an excessive current draw fault (such as a short to ground) has exceeded the limits that the BCM can withstand. CORRECT the cause of the excessive current draw before installing a new BCM.
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Possible Sources

- Wiring, terminals or connectors
- BCM

PINPOINT TEST C : ALL FRONT PARKING AND, IF EQUIPPED, FRONT SIDE FENDER MARKER, GRILLE MARKER AND REAR BED MARKER LAMPS ARE ALWAYS ON

C1 CHECK THE PARKING LAMPS VOLTAGE SUPPLY CIRCUIT FOR A SHORT TO VOLTAGE	
• Disconnect: BCM C2280G. • Ignition ON.	
Do the front parking and, if equipped, front side fender marker, grille marker and rear bed marker lamps still illuminate?	
Yes	GO to C2
No	REPAIR the front parking and, if equipped, roof marker bed side marker and rear bed marker lamps supply circuit for a short to voltage.
C2 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION	

- Disconnect and inspect all BCM 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 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 for any applicable Technical Service Bulletins (TSBs). If a TSB exists for this concern, DISCONTINUE this test and FOLLOW TSB instructions. If no Technical Service Bulletins (TSBs) address this concern,  Click here to access Guided Routine (BCM).
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.

An Individual Front Parking Lamp Is Inoperative - Halogen Headlamps

Refer to Wiring Diagrams Cell 92 for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Exterior Lighting (417-01 Exterior Lighting) .

Possible Sources

- Bulb
- Wiring, terminals or connectors

PINPOINT TEST D : AN INDIVIDUAL FRONT PARKING LAMP IS INOPERATIVE -

HALOGEN HEADLAMPS

D1 CHECK FOR VOLTAGE TO THE FRONT SIDE MARKER OR PARKING LAMP

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: Inoperative LH Front Park/Turn Lamp C1023 or RH Front Park/Turn Lamp C1043.
- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.
- Measure:

Click to display connectors

RH Front Park Lamp

Positive Lead	Measurement / Action	Negative Lead
C1043-2		Ground

Is the voltage greater than 11 volts?

Yes	GO to D2
No	REPAIR the front parking lamp voltage supply circuit for an open.

D2 CHECK THE FRONT PARKING LAMP GROUND CIRCUIT FOR AN OPEN

- Measure:

Click to display connectors

RH Front Park Lamp

Positive Lead	Measurement / Action	Negative Lead
C1043-2		C1043-1

Is the voltage greater than 11 volts?

Yes	INSTALL a new front park/turn lamp bulb. REFER to: Front Turn Signal Lamp Bulb (417-01 Exterior Lighting) .
No	REPAIR the circuit.

An Individual Front Parking Lamp Is Inoperative - LED Or High Intensity Discharge (HID) Headlamps

Refer to Wiring Diagrams Cell 92 for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Exterior Lighting (417-01 Exterior Lighting) .

Possible Sources

- Wiring, terminals or connectors
- Headlamp assembly

PINPOINT TEST E : AN INDIVIDUAL FRONT PARKING LAMP IS INOPERATIVE - LED (LIGHT EMITTING DIODE) OR HIGH INTENSITY DISCHARGE (HID) HEADLAMPS

E1 CHECK FOR VOLTAGE TO THE FRONT SIDE MARKER OR PARKING LAMP

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: For LED headlamps, Inoperative LH Headlamp C1284 or RH Headlamp C1285.
- Disconnect: For High Intensity Discharge (HID) headlamps, Inoperative LH Headlamp C1758A or RH Headlamp C1759A.
- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.
- For LED headlamps, measure:

Click to display connectors

RH Front Park Lamp

Positive Lead	Measurement / Action	Negative Lead
C1285-3		Ground

- For High Intensity Discharge (HID) headlamps, measure:

Click to display connectors

RH Front Park Lamp

Positive Lead	Measurement / Action	Negative Lead
C1759A-3		Ground

Is the voltage greater than 11 volts?

Yes	GO to E2
No	REPAIR the front parking lamp voltage supply circuit for an open.

E2 CHECK THE FRONT SIDE MARKER OR PARKING LAMP GROUND CIRCUIT FOR AN OPEN

- For LED headlamps, measure:

Click to display connectors

RH Front Park Lamp

Positive Lead	Measurement / Action	Negative Lead
C1285-3		C1285-7

- For High Intensity Discharge (HID) headlamps, measure:

Click to display connectors

RH Front Park Lamp

Positive Lead	Measurement / Action	Negative Lead
C1759A-3		C1759A-6

Is the voltage greater than 11 volts?

Yes	For LED headlamps, INSTALL a new ballast. REFER to: Ballast (417-01 Exterior Lighting, Removal and Installation). CLEAR the Diagnostic Trouble Codes (DTCs) and REPEAT the self-test. TEST the system for normal operation. If the condition returns, INSTALL a new headlamp assembly. REFER to: Headlamp Assembly (417-01 Exterior Lighting) . For High Intensity Discharge (HID) headlamps, INSTALL a new headlamp assembly. REFER to: Headlamp Assembly (417-01 Exterior Lighting) .
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No	REPAIR the circuit.
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An Individual Front Side Marker Lamp Is Inoperative Or Always On - Halogen Headlamps

Refer to Wiring Diagrams Cell 92 for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Exterior Lighting (417-01 Exterior Lighting) .

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
B10F3:11	Left Front Position Light: Circuit Short to Ground	A continuous memory and on-demand DTC that sets when the BCM detects a short to ground from the LH front side marker lamp output circuit.
B10F3:15	Left Front Position Light: Circuit Short to Battery or Open	A continuous memory and on-demand DTC that sets when the BCM detects an open from the LH front side marker lamp output circuit.
B10F4:11	Right Front Position Light: Circuit Short to Ground	A continuous memory and on-demand DTC that sets when the BCM detects a short to ground from the RH front side marker lamp output circuit.
B10F4:15	Right Front Position Light: Circuit Short to Battery or Open	A continuous memory and on-demand DTC that sets when the BCM detects an open from the RH front side marker lamp output circuit.

B149E:11	Left Front Position/Sidemarkers: Circuit Short To Ground	A continuous memory and on-demand DTC that sets when the BCM detects a short to ground from the LH front side marker lamp output circuit.
B149E:15	Left Front Position/Sidemarkers: Circuit Short To Battery or Open	A continuous memory and on-demand DTC that sets when the BCM detects an open from the LH front side marker lamp output circuit.
B149F:11	Right Front Position/Sidemarkers: Circuit Short To Ground	A continuous memory and on-demand DTC that sets when the BCM detects a short to ground from the RH front side marker lamp output circuit.
B149F:15	Right Front Position/Sidemarkers: Circuit Short To Battery or Open	A continuous memory and on-demand DTC that sets when the BCM detects an open from the RH front side marker lamp output circuit.
U1000:00	Solid State Driver Protection Active -Driver Disabled: No Sub Type Information	This DTC sets when the BCM has temporarily shut down the output driver. The module has temporarily disabled an output because an excessive current draw exists (such as a short to ground). The BCM cannot enable the output until the cause of the short is corrected, the Diagnostic Trouble Codes (DTCs) have been cleared and a successful self-test is run.
U3000:49	Control Module: Internal Electronic Failure	This DTC sets when the BCM has permanently shut down the output driver. The module has permanently disabled an output because an excessive current draw fault (such as a short to ground) has exceeded the limits that the BCM can withstand. CORRECT the cause of the excessive current draw before installing a new BCM.

Possible Sources

- Bulb
- Wiring, terminals or connectors

- BCM

PINPOINT TEST F : AN INDIVIDUAL FRONT SIDE MARKER LAMP IS INOPERATIVE OR ALWAYS ON - HALOGEN HEADLAMPS

F1 DETERMINE IF A FRONT SIDE MARKER LAMP IS ALWAYS ON

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

Is either front side marker lamp always on?

Yes	GO to F2
No	GO to F3

F2 CHECK THE FRONT SIDE MARKER LAMPS VOLTAGE SUPPLY CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect: BCM C2280F.
- Ignition ON.

Do the front side marker lamps still illuminate?

Yes	REPAIR the circuit.
No	GO to F8

F3 CHECK FOR VOLTAGE TO THE FRONT SIDE MARKER LAMP

- Ignition OFF.
- Disconnect: Inoperative LH Front Side Marker Lamp C1127 or RH Front Side Marker Lamp C1126.
- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.
- Measure:

Click to display connectors

RH Front Side Marker Lamp

Positive Lead	Measurement / Action	Negative Lead
C1126-2		Ground

Is the voltage greater than 11 volts?

Yes	GO to F5
No	GO to F4

F4 REPEAT THE ON-DEMAND SELF-TEST AND CHECK FOR VOLTAGE TO THE FRONT SIDE MARKER LAMP

- Using a diagnostic scan tool, perform the BCM self-test.
- Clear the Diagnostic Trouble Codes (DTCs) and repeat the self-test (required to enable the lamp output driver if DTC U1000:00 is present).
- Measure:

Click to display connectors

RH Front Side Marker Lamp

Positive Lead	Measurement / Action	Negative Lead
C1126-2		Ground

Is the voltage greater than 11 volts?

Yes	INSTALL a new front side marker lamp bulb.
No	GO to F6

F5 CHECK THE FRONT SIDE MARKER LAMP GROUND CIRCUIT FOR AN OPEN

- Measure:

Click to display connectors

RH Front Side Marker Lamp

Positive Lead	Measurement / Action	Negative Lead
C1126-2		C1126-1

Is the voltage greater than 11 volts?

Yes	INSTALL a new front side marker lamp bulb.
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No	REPAIR the circuit.
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F6 CHECK THE FRONT SIDE MARKER LAMP SUPPLY CIRCUIT FOR AN OPEN

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: BCM C2280F.
- Measure:

Click to display connectors

RH Front Side Marker Lamp

Positive Lead	Measurement / Action	Negative Lead
C1126-2	Ω	C2280F-37

Is the resistance less than 3 ohms?

Yes	GO to F7
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No	REPAIR the circuit.
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F7 CHECK THE FRONT SIDE MARKER LAMP SUPPLY CIRCUIT FOR A SHORT TO GROUND

- Measure:

Click to display connectors

RH Front Side Marker Lamp

Positive Lead	Measurement / Action	Negative Lead
C1126-2	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to F8
No	REPAIR the circuit. After the repair: If no Diagnostic Trouble Codes (DTCs) are present, TEST the system for normal operation. If DTC U1000:00 is present, CLEAR the Diagnostic Trouble Codes (DTCs) and REPEAT the self-test (required to enable the lamp output driver if DTC U1000:00 is present). If DTC U3000:49 is present,   Click here to access Guided Routine (BCM).

F8 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM 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 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 for any applicable Technical Service Bulletins (TSBs). If a TSB exists for this concern, DISCONTINUE this test and FOLLOW TSB instructions. If no Technical Service Bulletins (TSBs) address this concern,  Click here to access Guided Routine (BCM).
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.

An Individual Roof Marker Lamp Is Inoperative

Refer to Wiring Diagrams Cell 92 for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Exterior Lighting (417-01 Exterior Lighting) .

Possible Sources

- Wiring, terminals or connectors
- Roof marker lamp

PINPOINT TEST G : AN INDIVIDUAL ROOF MARKER LAMP IS INOPERATIVE

G1 CHECK THE INOPERATIVE ROOF MARKER LAMP VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: The inoperative roof marker lamp.
- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.
- Measure:

Click to display connectors

For RH Rear Roof Marker Lamp

Positive Lead	Measurement / Action	Negative Lead
C9703-1		Ground

Is the voltage greater than 11 volts?

Yes	GO to G2
No	REPAIR the circuit.

G2 CHECK THE INOPERATIVE ROOF MARKER LAMP GROUND CIRCUIT FOR AN OPEN

- Measure:

Click to display connectors

For RH Rear Roof Marker Lamp

Positive Lead	Measurement / Action	Negative Lead
C9703-1		C9703-2

Is the voltage greater than 11 volts?

Yes	INSTALL a new roof marker lamp. REFER to: Cab Marker Lamp (417-01 Exterior Lighting) .
No	REPAIR the circuit.

An Individual Front Side Fender Marker Or Rear Bed Marker Lamp Is Inoperative

Refer to Wiring Diagrams Cell 92 for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Exterior Lighting (417-01 Exterior Lighting) .

Possible Sources

- Wiring, terminals or connectors
- Front side fender marker lamp
- Rear bed marker lamp

PINPOINT TEST H : AN INDIVIDUAL FRONT SIDE FENDER MARKER OR REAR BED MARKER LAMP IS INOPERATIVE

H1 CHECK THE MARKER LAMP VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: The inoperative marker lamp.
- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.
- Measure:

Click to display connectors

For RH Rear Bed Marker Lamp

Positive Lead	Measurement / Action	Negative Lead
C4423-1		Ground

Is the voltage greater than 11 volts?

Yes	GO to H2
No	REPAIR the circuit.

H2 CHECK THE INOPERATIVE MARKER LAMP GROUND CIRCUIT FOR AN OPEN

- Measure:

Click to display connectors

For RH Rear Bed Marker Lamp

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

Is the voltage greater than 11 volts?

Yes	INSTALL a new front side fender marker or rear bed marker lamp.
No	REPAIR the circuit.

An Individual Or All Grille Marker Lamps Only Are Inoperative

Refer to Wiring Diagrams Cell 92 for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Exterior Lighting (417-01 Exterior Lighting) .

Possible Sources

- Wiring, terminals or connectors
- Grille marker lamp

PINPOINT TEST I : AN INDIVIDUAL OR ALL GRILLE MARKER LAMPS ONLY ARE INOPERATIVE

I1 DETERMINE WHICH MARKER LAMPS ARE INOPERATIVE

- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.
- Observe the grille marker lamps.

Are all grille marker lamps inoperative?

Yes	GO to I2
No	GO to I3

I2 CHECK THE GRILLE MARKER LAMPS VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: LH Grille LED C1970.
- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.

Is the voltage greater than 11 volts?

Yes	REPAIR the grille marker lamps ground circuit for an open.
No	REPAIR the circuit.

I3 CHECK THE GRILLE MARKER LAMP VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: inoperative grille LED.
- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.
- Measure:

Click to display connectors

For RH Grille Marker Lamp

Positive Lead	Measurement / Action	Negative Lead
C1972-1		Ground

Is the voltage greater than 11 volts?

Yes	GO to I4
No	REPAIR the circuit.

I4 CHECK THE INOPERATIVE MARKER LAMP GROUND CIRCUIT FOR AN OPEN

- Measure:

Click to display connectors

For RH Grille Marker Lamp

Positive Lead	Measurement / Action	Negative Lead
C1972-1		C1972-2

Is the voltage greater than 11 volts?

Yes	INSTALL a new front (grille) marker lamp.
No	REPAIR the circuit.

An Individual Or All Rear Parking, License Plate And, If Equipped, Exterior Mirror, Roof Marker And High-Mounted Stoplamp Parking Lamps Are Inoperative

Refer to Wiring Diagrams Cell 92 for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Exterior Lighting (417-01 Exterior Lighting) .

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
B1445:11	Rear Park Lamps Output: Circuit Short to Ground	A continuous memory and on-demand DTC that sets when the BCM detects a short to ground from the rear parking lamp output circuit.

B1445:15	Rear Park Lamps Output: Circuit Short to Battery or Open	A continuous memory and on-demand DTC that sets when the BCM detects an open from the rear parking lamp output circuit.
U1000:00	Solid State Driver Protection Active -Driver Disabled: No Sub Type Information	This DTC sets when the BCM has temporarily shut down the output driver. The module has temporarily disabled an output because an excessive current draw exists (such as a short to ground). The BCM cannot enable the output until the cause of the short is corrected, the Diagnostic Trouble Codes (DTCs) have been cleared and a successful self-test is run.
U3000:49	Control Module: Internal Electronic Failure	This DTC sets when the BCM has permanently shut down the output driver. The module has permanently disabled an output because an excessive current draw fault (such as a short to ground) has exceeded the limits that the BCM can withstand. CORRECT the cause of the excessive current draw before installing a new BCM.

Possible Sources

- Bulb
- Rear lamp assembly
- License plate lamp
- Wiring, terminals or connectors
- BCM

PINPOINT TEST J : AN INDIVIDUAL OR ALL REAR PARKING, LICENSE PLATE AND, IF EQUIPPED, EXTERIOR MIRROR, ROOF MARKER AND HIGH-MOUNTED STOPLAMP PARKING LAMPS ARE INOPERATIVE

J1 DETERMINE WHICH PARKING AND LICENSE PLATE LAMPS ARE INOPERATIVE

- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.
- Observe the rear parking, license plate and, if equipped, exterior mirror, roof marker and high-mounted stoplamp parking lamps.

Are all the rear parking, license plate and, if equipped, exterior mirror, roof marker and high-mounted stoplamp parking lamps inoperative?

Yes	GO to J8
No	For an individual rear parking lamp inoperative, GO to J2 For an individual license plate lamp inoperative, GO to J4 If all the rear parking lamps or only both the license plate lamps are inoperative, GO to J6 For an individual roof marker lamp inoperative, GO to Pinpoint Test G For an individual or both exterior mirror parking lamps and/or the high-mounted stoplamp parking lamp is inoperative, GO to Pinpoint Test L

J2 CHECK THE REAR PARKING LAMP VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: For incandescent rear lamps, inoperative LH Rear Lamp C4035 or RH Rear Lamp C4032.
- Disconnect: For LED rear lamps not equipped with BLIS, inoperative LH Rear Lamp C412 or RH Rear Lamp C415.
- Disconnect: For LED rear lamps equipped with BLIS, inoperative LH Rear Lamp C4483 or RH Rear Lamp C4484.
- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.

- For incandescent rear lamps, measure:

Click to display connectors

RH Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C4032-4		Ground

- For LED rear lamps not equipped with BLIS, measure:

Click to display connectors

RH Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C415-3		Ground

- For LED rear lamps equipped with BLIS, measure:

Click to display connectors

RH Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C4484-3		Ground

Is the voltage greater than 11 volts?

Yes	GO to J3
No	REPAIR the circuit.

J3 CHECK THE REAR PARKING LAMP GROUND CIRCUIT FOR AN OPEN

- For incandescent rear lamps, measure:

Click to display connectors

RH Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C4032-4		C4032-6

- For LED rear lamps not equipped with BLIS, measure:

Click to display connectors

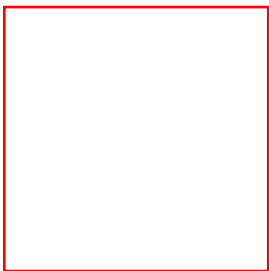
RH Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C415-3		C415-6

- For LED rear lamps equipped with BLIS, measure:

Click to display connectors

RH Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C4484-3		C4484-1
C4484-3		C4484-9

Is the voltage greater than 11 volts?

Yes	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 rear lamp bulb. REFER to: Rear Lamp Bulb (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. For a LED rear lamp, INSTALL a new rear lamp assembly. REFER to: Rear Lamp Assembly (417-01 Exterior Lighting) .
No	REPAIR the circuit.

J4 CHECK THE LICENSE PLATE LAMP VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

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

Click to display connectors

RH License Plate Lamp

Positive Lead	Measurement / Action	Negative Lead
C462-2		Ground

Is the voltage greater than 11 volts?

Yes	GO to J5
No	REPAIR the circuit.

J5 CHECK THE LICENSE PLATE LAMP GROUND CIRCUIT FOR AN OPEN

- Measure:

Click to display connectors

RH License Plate Lamp

Positive Lead	Measurement / Action	Negative Lead
C462-2		C462-1

Is the voltage greater than 11 volts?

Yes	INSTALL a new license plate lamp.
No	REPAIR the circuit.

J6 CHECK THE REAR PARKING AND LICENSE PLATE LAMPS VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: For inoperative incandescent rear lamps, LH Rear Lamp C4035.
- Disconnect: For inoperative LED rear lamps not equipped with BLIS, LH Rear Lamp C412.
- Disconnect: For inoperative LED rear lamps equipped with BLIS, LH Rear Lamp C4483.
- Disconnect: For inoperative license plate lamps, LH License Plate Lamp C452.

- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.
- For inoperative incandescent rear lamps, measure:

Click to display connectors

LH Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C4035-4		Ground

- For inoperative LED rear lamps not equipped with BLIS, measure:

Click to display connectors

LH Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C412-3		Ground

- For inoperative LED rear lamps equipped with BLIS, measure:

Click to display connectors

LH Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C4483-3		Ground

Is the voltage greater than 11 volts?

Yes	GO to J7
No	REPAIR the circuit.

J7 CHECK THE REAR PARKING AND LICENSE PLATE LAMPS GROUND CIRCUIT FOR AN OPEN

- For inoperative incandescent rear lamps, measure:

Click to display connectors

LH Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C4035-4		C4035-6

- For inoperative LED rear lamps not equipped with BLIS, measure:

Click to display connectors

LH Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C412-3		C412-6

- For inoperative LED rear lamps equipped with BLIS, measure:

Click to display connectors

LH Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C4483-3		C4483-1

Is the voltage greater than 11 volts?

Yes	For an inoperative license plate lamp, INSTALL a new license plate lamp. 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 rear lamp bulb. REFER to: Rear Lamp Bulb (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. For a LED rear lamp, INSTALL a new rear lamp assembly. REFER to: Rear Lamp Assembly (417-01 Exterior Lighting) .
No	REPAIR the circuit.

J8 BYPASS THE BCM (BODY CONTROL MODULE)

NOTE: *If the fused jumper wire fails, refer to the Wiring Diagrams Manual to identify the possible causes of the circuit short. After the repair:*

If no Diagnostic Trouble Codes (DTCs) are present, test the system for normal operation.

If DTC U1000:00 is present, CLEAR the Diagnostic Trouble Codes (DTCs) and REPEAT the self-test (required to enable the lamp output driver if DTC U1000:00 is present).

If DTC U3000:49 is present,   [Click here to access Guided Routine \(BCM\).](#)

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: BCM C2280C.

Do the rear parking, license plate and, if equipped, exterior mirror, roof marker and high-mounted stoplamp parking lamps illuminate?

Yes	REMOVE the fused jumper, GO to J10
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- No** For North America, If not equipped with exterior mirror or high-mounted stoplamp parking lamps or the exterior mirror and high-mounted stoplamp parking lamps operate correctly, REMOVE the fused jumper, GO to [J9](#)
- For North America, If equipped with exterior mirror and high-mounted stoplamp parking lamps and all lamps are inoperative, REMOVE the fused jumper, REPAIR the rear parking, license plate and, if equipped, exterior mirror and high-mounted stoplamp parking lamps voltage supply circuit for an open.
- Except North America, If equipped with exterior mirror and roof marker lamps and all lamps are inoperative, REMOVE the fused jumper, REPAIR the rear parking, license plate and, if equipped, exterior mirror and roof marker lamps voltage supply circuit for an open.

J9 CHECK THE INOPERATIVE PARKING LAMP VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: For incandescent rear lamps, LH Rear Lamp C4035.
- Disconnect: For LED rear lamps not equipped with BLIS, LH Rear Lamp C412.
- Disconnect: For LED rear lamps equipped with BLIS, LH Rear Lamp C4483.
- For incandescent rear lamps, measure:

Click to display connectors

LH Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C4035-4	Ω	C2280C-12

- For LED rear lamps not equipped with BLIS, measure:

Click to display connectors

LH Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C412-3	Ω	C2280C-12

- For LED rear lamps equipped with BLIS, measure:

Click to display connectors

LH Rear Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C4483-3	Ω	C2280C-12

Is the resistance less than 3 ohms?

Yes	REPAIR the rear parking and license plate lamps ground circuit for an open.
No	REPAIR the circuit.

J10 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM 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 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 for any applicable Technical Service Bulletins (TSBs). If a TSB exists for this concern, DISCONTINUE this test and FOLLOW TSB instructions. If no Technical Service Bulletins (TSBs) address this concern,  Click here to access Guided Routine (BCM).
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.

All Rear Parking, License Plate And, If Equipped, Exterior Mirror, Roof Marker And High-Mounted Stoplamp Parking Lamps Are Always On

Refer to Wiring Diagrams Cell 92 for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Exterior Lighting (417-01 Exterior Lighting) .

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
B1445:15	Rear Park Lamps Output: Circuit Short to Battery or Open	A continuous memory and on-demand DTC that sets when the BCM detects a short to voltage from the rear parking lamp output circuit.

Possible Sources

- Wiring, terminals or connectors
- BCM

PINPOINT TEST K : ALL REAR PARKING, LICENSE PLATE AND, IF EQUIPPED, EXTERIOR MIRROR, ROOF MARKER AND HIGH-MOUNTED STOPLAMP PARKING LAMPS ARE ALWAYS ON

K1 CHECK THE BCM (BODY CONTROL MODULE) PARKING LAMP OUTPUT CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect: BCM C2280C.
- Ignition ON.

Do the rear parking, license plate and, if equipped, exterior mirror, roof marker and high-mounted stoplamp parking lamps continue to illuminate?

Yes	REPAIR the circuit.
No	GO to K2

K2 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM 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 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 for any applicable Technical Service Bulletins (TSBs). If a TSB exists for this concern, DISCONTINUE this test and FOLLOW TSB instructions. If no Technical Service Bulletins (TSBs) address this concern,  Click here to access Guided Routine (BCM).
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.

An Individual Or Both Exterior Mirror Parking Lamps And/Or The High-Mounted Stoplamp Parking Lamp Is Inoperative

Refer to Wiring Diagrams Cell 92 for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Exterior Lighting (417-01 Exterior Lighting) .

Possible Sources

- Wiring, terminals or connectors
- Exterior mirror parking/turn/spot lamp
- High-mounted stoplamp

PINPOINT TEST L : AN INDIVIDUAL OR BOTH EXTERIOR MIRROR PARKING LAMPS AND/OR THE HIGH-MOUNTED STOPLAMP PARKING LAMP IS INOPERATIVE

L1 DETERMINE WHICH EXTERIOR MIRROR PARKING AND/OR THE HIGH-MOUNTED STOPLAMP PARKING LAMPS ARE INOPERATIVE

- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.
- Observe the exterior mirror parking lamps and, if equipped, the high-mounted stoplamp parking lamps.

Are both exterior mirror parking lamps and, if equipped, the high-mounted stoplamp parking lamp inoperative?

Yes	REPAIR the exterior mirror parking lamps and, if equipped, the high-mounted stoplamp parking lamp voltage supply circuit for an open.
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No	For an individual exterior mirror parking lamp inoperative, GO to L2 For only the high-mounted stoplamp parking lamp inoperative, GO to L4
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L2 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 Exterior Mirror C521 or RH Exterior Mirror C622.
- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.
- Measure:

Click to display connectors

For LH Exterior Mirror Parking Lamp

Positive Lead	Measurement / Action	Negative Lead
C622-12		Ground

Is the voltage greater than 11 volts?

Yes	GO to L3
No	REPAIR the circuit.

L3 CHECK THE INOPERATIVE EXTERIOR MIRROR PARKING LAMP GROUND CIRCUIT FOR AN OPEN

- Measure:

Click to display connectors

For LH Exterior Mirror Parking Lamp

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

Is the voltage greater than 11 volts?

Yes	CHECK the exterior mirror jumper harness between the vehicle harness and the parking lamp for open circuits and damaged or pushed-out pins. If the jumper harness is OK, INSTALL a new exterior mirror parking/turn/spot lamp. REFER to: Exterior Mirror - Vehicles With: Long Arm Mirrors (501-09 Rear View Mirrors, Removal and Installation). If the jumper harness is not OK, REPAIR the jumper harness. If the harness cannot be repaired, INSTALL a new exterior mirror. REFER to: Exterior Mirror - Vehicles With: Long Arm Mirrors (501-09 Rear View Mirrors, Removal and Installation).
No	REPAIR the circuit.

L4 CHECK THE HIGH-MOUNTED STOPLAMP PARKING LAMP VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Place the headlamp switch in the OFF position.
- Ignition OFF.
- Disconnect: High-Mounted Stoplamp C904.
- Ignition ON.
- Place the headlamp switch in the PARKING LAMPS position.

Is the voltage greater than 11 volts?

Yes	GO to L5
No	REPAIR the circuit.

L5 CHECK THE HIGH-MOUNTED STOPLAMP PARKING LAMP GROUND CIRCUIT FOR AN OPEN

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	REPAIR the circuit.