

Turn Signal and Hazard Lamps

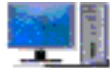
DTC Chart: Body Control Module (BCM)

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).

BCM DTC Chart

DTC	Description	Action
B123A:11	Left Front Turn Indicator: Circuit Short to Ground	GO to Pinpoint Test B
B123A:15	Left Front Turn Indicator: Circuit Short to Battery or Open	GO to Pinpoint Test B
B123B:11	Right Front Turn Indicator: Circuit Short to Ground	GO to Pinpoint Test B
B123B:15	Right Front Turn Indicator: Circuit Short to Battery or Open	GO to Pinpoint Test B
B1247:11	Left Rear Turn Indicator: Circuit Short To Ground	GO to Pinpoint Test B
B1247:15	Left Rear Turn Indicator: Circuit Short To Battery or Open	GO to Pinpoint Test B
B1248:11	Right Rear Turn Indicator: Circuit Short To Ground	GO to Pinpoint Test B

B1248:15	Right Rear Turn Indicator: Circuit Short To Battery or Open	GO to Pinpoint Test B
B1265:01	Left Rear Turn Lamp Feedback: General Electrical Failure	GO to Pinpoint Test D
B1266:01	Right Rear Turn Lamp Feedback: General Electrical Failure	GO to Pinpoint Test D
B1497:01	Left Front Turn Lamp Feedback: General Electrical Failure	GO to Pinpoint Test D
B1498:01	Right Front Turn Lamp Feedback: General Electrical Failure	GO to Pinpoint Test D
B1D35:11	Hazard Switch: Circuit Short to Ground	GO to Pinpoint Test C
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) .
---	---	---

DTC Chart: Driver Door Module (DDM)

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).

DDM DTC Chart

DTC	Description	Action
B1D06:11	Left Turn Indicator: Circuit Short To Ground	GO to Pinpoint Test B
For other DDM Diagnostic Trouble Codes (DTCs)	-	REFER to: Locks, Latches and Entry Systems (501-14 Handles, Locks, Latches and Entry Systems, Diagnosis and Testing).

DTC Chart: Passenger Door Module (PDM)

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).

PDM DTC Chart

DTC	Description	Action

B1D07:11	Right Turn Indicator: Circuit Short To Ground	GO to Pinpoint Test B
For other PDM Diagnostic Trouble Codes (DTCs)	-	REFER to: Locks, Latches and Entry Systems (501-14 Handles, Locks, Latches and Entry Systems, Diagnosis and Testing).

DTC Chart: Steering Column Control Module (SCCM)

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).

SCCM DTC Chart

DTC	Description	Action
B1D36:09	Turn Indicator Switch: Component Failure	INSTALL a new LH steering column multifunction switch. REFER to: Steering Column Multifunction Switch LH (211-05 Steering Wheel and Column Electrical Components, Removal and Installation). CLEAR the Diagnostic Trouble Codes (DTCs). Run the SCCM self-test. If the DTC returns, INSTALL a new SCCM. REFER to: Steering Column Control Module (SCCM) (211-05 Steering Wheel and Column Electrical Components, Removal and Installation).

For other SCCM Diagnostic Trouble Codes (DTCs)	-	REFER to: Steering Wheel and Column Electrical Components (211-05 Steering Wheel and Column Electrical Components) .
--	---	--

Symptom Chart(s)

Symptom Chart: Turn Signal and Hazard 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) .
The turn signal function is inoperative or always on	Refer to the Pinpoint Test	GO to Pinpoint Test A
One turn signal lamp is inoperative or always on	Refer to the Pinpoint Test	GO to Pinpoint Test B
The hazard lamp function is inoperative or always on	Refer to the Pinpoint Test	GO to Pinpoint Test C

The turn signal indicator flashes fast when no turn signal lamps are inoperative or does not flash fast when a turn signal lamp is inoperative - LED headlamps or rear lamps	Refer to the Pinpoint Test	GO to Pinpoint Test D
--	----------------------------	---------------------------------------

Pinpoint Tests

The Turn Signal Function Is Inoperative Or Always On

Refer to Wiring Diagrams Cell 90 for schematic and connector information.

Normal Operation and Fault Conditions

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

Possible Sources

- LH steering column multifunction switch
- SCCM
- BCM

PINPOINT TEST A : THE TURN SIGNAL FUNCTION IS INOPERATIVE OR ALWAYS ON

A1 CHECK THE SCCM (STEERING COLUMN CONTROL MODULE) TURN SIGNAL PARAMETER IDENTIFICATIONS (PIDS)

- Ignition ON.
- Using a diagnostic scan tool, view SCCM Parameter Identifications (PIDs).
- Monitor the Turn signal Left Switch Input Status (TRN_SIG_SW_L) and Turn signal Right Switch Input Status (TRN_SIG_SW_R) while placing the LH steering column multifunction switch in the left and right turn positions.

Do the Parameter Identifications (PIDs) match the LH steering column multifunction switch position?

Yes	GO to A2
No	INSTALL a new LH steering column multifunction switch. REFER to: Steering Column Multifunction Switch LH (211-05 Steering Wheel and Column Electrical Components, Removal and Installation). TEST the system for normal operation. If the concern is still present, GO to A3

A2 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.
-----------	--

A3 CHECK FOR CORRECT SCCM (STEERING COLUMN CONTROL MODULE) OPERATION

- Disconnect and inspect all SCCM 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 SCCM 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, INSTALL a new SCCM. REFER to: Steering Column Control Module (SCCM) (211-05 Steering Wheel and Column Electrical Components, 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.

One Turn Signal Lamp Is Inoperative Or Always On

Refer to Wiring Diagrams Cell 90 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
B123A:11	Left Front Turn Indicator: 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 turn lamp voltage supply circuit.
B123A:15	Left Front Turn Indicator: Circuit Short To Battery Or Open	A continuous memory and on-demand DTC that sets when the BCM detects an open or short to voltage from the LH front turn lamp voltage supply circuit.
B123B:11	Right Front Turn Indicator: 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 turn lamp voltage supply circuit.
B123B:15	Right Front Turn Indicator: Circuit Short To Battery Or Open	A continuous memory and on-demand DTC that sets when the BCM detects an open or short to voltage from the RH front turn lamp voltage supply circuit.
B1247:11	Left Rear Turn Indicator: Circuit Short To Ground	A continuous memory and on-demand DTC that sets when the BCM detects a short to ground from the LH rear turn lamp voltage supply circuit.
B1247:15	Left Rear Turn Indicator: Circuit Short To Battery or Open	A continuous memory and on-demand DTC that sets when the BCM detects an open or short to voltage from the LH rear turn lamp voltage supply circuit.
B1248:11	Right Rear Turn Indicator: Circuit Short To Ground	A continuous memory and on-demand DTC that sets when the BCM detects a short to ground from the RH rear turn lamp voltage supply circuit.

B1248:15	Right Rear Turn Indicator: Circuit Short To Battery or Open	A continuous memory and on-demand DTC that sets when the BCM detects an open or short to voltage from the RH rear turn lamp voltage supply circuit.
B1D06:11	Left Turn Indicator: Circuit Short To Ground	A continuous memory and on-demand DTC that sets when the DDM detects an open or short to voltage from the LH exterior mirror turn lamp voltage supply circuit.
B1D07:11	Right Turn Indicator: Circuit Short To Ground	A continuous memory and on-demand DTC that sets when the PDM detects an open or short to voltage from the RH exterior mirror turn lamp voltage supply 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 (halogen headlamps and rear lamps only)
- Headlamp assembly (LED and High Intensity Discharge (HID) headlamps only)
- Rear lamp assembly (LED rear lamps only)
- Exterior mirror
- Wiring, terminals or connectors
- DDM
- PDM

- BCM

PINPOINT TEST B : ONE TURN SIGNAL LAMP IS INOPERATIVE OR ALWAYS ON

B1 DETERMINE IF ANY TURN LAMP IS ALWAYS ON

- Ignition ON.
- Activate the hazard lamp function.
- Observe the front and the rear turn lamps.

Is any turn lamp continuously illuminated (not flashing)?

Yes	For a front or mirror turn lamp, GO to B2 GO to B3
No	For a front turn lamp, GO to B4 For LED rear lamps equipped with BLIS, if the stoplamps are inoperative, REFER to: Stoplamps (417-01 Exterior Lighting) . If the stoplamps operate correctly, GO to B17 For incandescent rear lamps and LED rear lamps not equipped with BLIS, if the stoplamps operate normally, GO to B9 For a mirror turn lamp, GO to B13

B2 CHECK THE FRONT TURN LAMP OR EXTERIOR MIRROR TURN VOLTAGE SUPPLY CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Deactivate the hazard lamp function.
- Disconnect: BCM C2280F (Front Lamps).
- Disconnect: DDM C501A (LH exterior mirror lamp).
- Disconnect: PDM C652A (RH exterior mirror lamp).
- Ignition ON.

Does the turn lamp in question continue to illuminate?

Yes	REPAIR the affected circuit.
No	For the LH exterior mirror turn lamp, GO to B18 For the RH exterior mirror turn lamp, GO to B19 For all other turn lamps, GO to B17

B3 CHECK THE REAR TURN LAMP VOLTAGE SUPPLY CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Deactivate the hazard lamp function.
- Disconnect: BCM C2280E.
- Ignition ON.

Does the turn lamp in question continue to illuminate?

Yes	REPAIR the affected circuit.
No	GO to B17

B4 CHECK FOR VOLTAGE TO THE FRONT TURN LAMP

- Ignition OFF.
- Deactivate the hazard lamp function.
- Disconnect: With halogen headlamps, inoperative LH Front Park/Turn Lamp C1023 or RH Front Park/Turn Lamp C1043.
- Disconnect: With LED headlamps, inoperative LH Headlamp C1284 or RH Headlamp C1285.
- Disconnect: With High Intensity Discharge (HID) headlamps, inoperative LH Headlamp C1758A or RH Headlamp C1759A.

- Ignition ON.
- Activate the hazard flasher lamp function.
- With halogen headlamps and inoperative front turn lamp, measure:

Click to display connectors

RH Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C1043-3		Ground

- With LED headlamps and inoperative front turn lamp, measure:

Click to display connectors

RH Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C1285-1		Ground

- With High Intensity Discharge (HID) headlamps and inoperative front turn lamp, measure:

Click to display connectors

RH Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C1759A-4		Ground

Does the voltage alternate from 0 to greater than 11 volts?

Yes	GO to B6
No	GO to B5

B5 REPEAT THE ON-DEMAND SELF-TEST AND CHECK FOR VOLTAGE TO THE FRONT SIDE MARKER OR PARKING 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).
- With halogen headlamps and inoperative front turn lamp, measure:

Click to display connectors

RH Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C1043-3		Ground

- With LED headlamps and inoperative front turn lamp, measure:

Click to display connectors

RH Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C1285-1		Ground

- With High Intensity Discharge (HID) headlamps and inoperative front turn lamp, measure:

Click to display connectors

RH Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C1759A-4		Ground

Does the voltage alternate from 0 to greater than 11 volts?

Yes	For halogen and High Intensity Discharge (HID) headlamps and inoperative front turn lamp, INSTALL a new front park/turn lamp bulb. REFER to: Front Turn Signal Lamp Bulb (417-01 Exterior Lighting) . 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) .
No	GO to B7

B6 CHECK THE HEADLAMP GROUND CIRCUIT FOR AN OPEN

- With halogen headlamps and inoperative front turn lamp, measure:

Click to display connectors

RH Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C1043-3		C1043-1

- With LED headlamps and inoperative front turn lamp, measure:

Click to display connectors

RH Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
---------------	----------------------	---------------

C1285-1



C1285-7

- With High Intensity Discharge (HID) headlamps and inoperative front turn lamp, measure:

Click to display connectors

RH Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C1759A-4		C1759A-6

Does the voltage alternate from 0 to greater than 11 volts?

Yes	For halogen and High Intensity Discharge (HID) headlamps and inoperative front turn lamp, INSTALL a new front park/turn lamp bulb. REFER to: Front Turn Signal Lamp Bulb (417-01 Exterior Lighting) . 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) .
No	REPAIR the circuit.

B7 CHECK THE FRONT TURN LAMP SUPPLY CIRCUIT FOR A SHORT TO GROUND

- Ignition OFF.
- Deactivate the hazard flasher lamp function.
- Disconnect: BCM C2280F.
- With halogen headlamps and inoperative front turn lamp, measure:

Click to display connectors

RH Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C1043-3	Ω	Ground

- With LED headlamps and inoperative front turn lamp, measure:

Click to display connectors

RH Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C1285-1	Ω	Ground

- With High Intensity Discharge (HID) headlamps and inoperative front turn lamp, measure:

Click to display connectors

RH Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C1759A-4	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to B8
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).

B8 CHECK THE FRONT TURN LAMP SUPPLY CIRCUIT FOR AN OPEN

- With halogen headlamps and inoperative front turn lamp, measure:

Click to display connectors

RH Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C1043-3	Ω	C2280F-38

- With LED headlamps and inoperative front turn lamp, measure:

Click to display connectors

RH Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C1285-1	Ω	C2280F-38

- With High Intensity Discharge (HID) headlamps and inoperative front turn lamp, measure:

Click to display connectors

RH Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C1759A-4	Ω	C2280F-38

Is the resistance less than 3 ohms?

Yes	GO to B17
No	REPAIR the circuit.

B9 CHECK FOR REAR TURN LAMP SUPPLY VOLTAGE

- Ignition OFF.
- Deactivate the hazard flasher lamp function.
- 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.
- Ignition ON.
- Activate the hazard flasher lamp function.
- For incandescent rear lamps, measure:

Click to display connectors

RH Rear Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C4032-1	  	Ground

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

Click to display connectors

RH Rear Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C415-6		Ground

Does the voltage alternate from 0 to 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	GO to B10

B10 REPEAT THE ON-DEMAND SELF-TEST AND CHECK FOR VOLTAGE TO THE REAR TURN 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).
- For incandescent rear lamps, measure:

Click to display connectors

RH Rear Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C4032-1		Ground

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

Click to display connectors

RH Rear Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C415-6		Ground

Does the voltage alternate from 0 to 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	GO to B11

B11 CHECK THE REAR TURN LAMP SUPPLY CIRCUIT FOR AN OPEN

- Ignition OFF.
- Deactivate the hazard flasher lamp function.
- Disconnect: BCM C2280E.
- For incandescent rear lamps, measure:

Click to display connectors

RH Rear Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C4032-1	Ω	C2280E-52

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

Click to display connectors

RH Rear Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C415-6	Ω	C2280E-52

Is the resistance less than 3 ohms?

Yes	GO to B12
No	REPAIR the circuit.

B12 CHECK THE REAR TURN LAMP SUPPLY CIRCUIT FOR A SHORT TO GROUND

- For incandescent rear lamps, measure:

Click to display connectors

RH Rear Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C4032-1	Ω	Ground

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

Click to display connectors

RH Rear Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C415-6	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to B17
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).

B13 CHECK FOR VOLTAGE TO THE EXTERIOR MIRROR

- Ignition OFF.
- Deactivate the hazard flasher lamp function.
- Disconnect: Without memory mirrors, LH Exterior Mirror C516 or RH Exterior Mirror C601.
- Disconnect: With memory mirrors, LH Exterior Mirror C521 or RH Exterior Mirror C622.
- Ignition ON.
- Activate the hazard flasher lamp function.
- Without memory mirrors, measure:

Click to display connectors

RH Exterior Mirror Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C601-7		Ground

- With memory mirrors, measure:

Click to display connectors

RH Exterior Mirror Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C622-7		Ground

Does the voltage alternate from 0 to greater than 11 volts?

Yes	GO to B14
No	GO to B15

B14 CHECK THE EXTERIOR MIRROR TURN LAMP GROUND

- Without memory mirrors, measure:

Click to display connectors

RH Exterior Mirror Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C601-7		C601-8

- With memory mirrors, measure:

Click to display connectors

RH Exterior Mirror Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C622-7		C622-8

Does the voltage alternate from 0 to 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 turn lamp. If the harness cannot be repaired, INSTALL a new exterior mirror. REFER to: Exterior Mirror - Vehicles With: Short Arm Mirrors (501-09 Rear View Mirrors, Removal and Installation). REFER to: Exterior Mirror - Vehicles With: Long Arm Mirrors (501-09 Rear View Mirrors, Removal and Installation).
No	REPAIR the circuit.

B15 CHECK THE EXTERIOR MIRROR TURN LAMP SUPPLY CIRCUIT FOR A SHORT TO GROUND

- Ignition OFF.
- Deactivate the hazard flasher lamp function.
- Disconnect: DDM C501A (LH exterior mirror lamp).
- Disconnect: PDM C652A (RH exterior mirror lamp).
- Without memory mirrors, measure:

Click to display connectors

RH Exterior Mirror Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C601-7	Ω	Ground

- With memory mirrors, measure:

Click to display connectors

RH Exterior Mirror Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C622-7	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to B16
No	REPAIR the circuit.

B16 CHECK THE MIRROR TURN LAMP SUPPLY CIRCUIT FOR AN OPEN

- Without memory mirrors, measure:

Click to display connectors

RH Exterior Mirror Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C601-7	Ω	C652A-4

- With memory mirrors, measure:

Click to display connectors

RH Exterior Mirror Turn Lamp

Positive Lead	Measurement / Action	Negative Lead
C622-7	Ω	C652A-4

Is the resistance less than 3 ohms?

Yes	For the LH exterior mirror turn lamp, GO to B18 For the RH exterior mirror turn lamp, GO to B19
No	REPAIR the circuit.

B17 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.

B18 CHECK FOR CORRECT DDM (DRIVER DOOR MODULE) OPERATION

- Disconnect and inspect all DDM 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 DDM 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, INSTALL a new DDM. REFER to: Driver Door Module (DDM) (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.

B19 CHECK FOR CORRECT PDM (PASSENGER DOOR MODULE) OPERATION

- Disconnect and inspect all PDM 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 PDM 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, INSTALL a new PDM. REFER to: Passenger Door Module (PDM) (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.

The Hazard Lamp Function Is Inoperative Or Always On

Refer to Wiring Diagrams Cell 90 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
B1D35:11	Hazard Switch: Circuit Short to Ground	A continuous memory and on-demand DTC that sets when the BCM detects a short to ground from the hazard lamp function input circuit.

Possible Sources

- Wiring, terminals or connectors
- Hazard flasher switch
- BCM

PINPOINT TEST C : THE HAZARD LAMP FUNCTION IS INOPERATIVE OR ALWAYS ON

C1 CHECK FOR BCM (BODY CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCS)

- Ignition ON.
- Using a diagnostic scan tool, perform the BCM self-test.

Is DTC B1D35:11 present?

Yes	GO to C2
No	GO to C4

C2 ISOLATE THE HAZARD FLASHER SWITCH

- Ignition OFF.
- Disconnect: Hazard Flasher Switch C2480.
- Ignition ON.
- Using a diagnostic scan tool, clear the Diagnostic Trouble Codes (DTCs) and repeat the BCM self-test.

Is DTC B1D35:11 retrieved again?

Yes	GO to C3
No	INSTALL a new hazard flasher switch. REFER to: Hazard Flasher Switch (417-01 Exterior Lighting, Removal and Installation).

C3 CHECK THE HAZARD FLASHER SWITCH INPUT CIRCUIT FOR A SHORT TO GROUND

- Ignition OFF.
- Disconnect: BCM C2280B.

Is the resistance greater than 10,000 ohms?

Yes	GO to C7
No	REPAIR the circuit.

C4 CHECK FOR A VOLTAGE SIGNAL TO THE HAZARD FLASHER SWITCH

- Ignition OFF.
- Disconnect: Hazard Flasher Switch C2480.
- Ignition ON.

Is the voltage greater than 11 volts?

Yes	GO to C5
No	GO to C6

C5 CHECK THE HAZARD FLASHER SWITCH GROUND CIRCUIT

Is the voltage greater than 11 volts?

Yes	INSTALL a new hazard flasher switch. REFER to: Hazard Flasher Switch (417-01 Exterior Lighting, Removal and Installation).
No	REPAIR the circuit.

C6 CHECK THE HAZARD FLASHER SWITCH INPUT CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect: BCM C2280B.

Is the resistance less than 3 ohms?

Yes	GO to C7
No	REPAIR the circuit.

C7 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.

The Turn Signal Indicator Flashes Fast When No Turn Signal Lamps Are Inoperative Or Does Not Flash Fast When A Turn Signal Lamp Is Inoperative - LED Headlamps Or Rear Lamps

Refer to Wiring Diagrams Cell 90 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
B1265:01	Left Rear Turn Lamp Feedback: General Electrical Failure	A continuous memory DTC that sets when the BCM detects an electrical failure from the LH rear turn lamp outage circuit when the turn lamp is activated.
B1266:01	Right Rear Turn Lamp Feedback: General Electrical Failure	A continuous memory DTC that sets when the BCM detects an electrical failure from the RH rear turn lamp outage circuit when the turn lamp is activated.
B1497:01	Left Front Turn Lamp Feedback: General Electrical Failure	A continuous memory DTC that sets when the BCM detects an electrical failure from the LH front turn lamp outage circuit when the turn lamp is activated.
B1498:01	Right Front Turn Lamp Feedback: General Electrical Failure	A continuous memory DTC that sets when the BCM detects an electrical failure from the RH front turn lamp outage circuit when the turn lamp is activated.

Possible Sources

- Wiring, terminals or connectors
- BCM

PINPOINT TEST D : THE TURN SIGNAL INDICATOR FLASHES FAST WHEN NO TURN SIGNAL LAMPS ARE INOPERATIVE OR DOES NOT FLASH FAST WHEN A TURN SIGNAL LAMP IS INOPERATIVE - LED (LIGHT EMITTING DIODE) HEADLAMPS OR REAR LAMPS

D1 CHECK THE BCM (BODY CONTROL MODULE) TURN LAMP OUTAGE PARAMETER IDENTIFICATIONS (PIDS)

- Ignition ON.
- Activate the hazard flasher lamp function.
- Using a diagnostic scan tool, view BCM Parameter Identifications (PIDs).
- Monitor the Left Front Turn Lamp Outage Feedback Status (T_LMP_OUT_LF), Right Front Turn Lamp Outage Feedback Status (T_LMP_OUT_RF), Left Rear Turn Lamp Outage Feedback Status (T_LMP_OUT_LR) and Right Rear Turn Lamp Outage Feedback Status (T_LMP_OUT_RR) Parameter Identifications (PIDs).

Do the Parameter Identifications (PIDs) indicate Lamp On when the turn signal lamps are illuminated and indicate Lamp Off when they are off?

Yes	GO to D6
No	If the T_LMP_OUT_LF, T_LMP_OUT_RF, T_LMP_OUT_LR or T_LMP_OUT_RR PID always Indicates Lamp On, GO to D2 If the T_LMP_OUT_LF, T_LMP_OUT_RF, T_LMP_OUT_LR or T_LMP_OUT_RR PID always Indicates Lamp Off, GO to D3

D2 CHECK THE TURN LAMP OUTAGE CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect: For T_LMP_OUT_LF, LH Rear Lamp C1284.
- Disconnect: For T_LMP_OUT_RF, RH Rear Lamp C1285.
- Disconnect: For T_LMP_OUT_LR not equipped with BLIS, LH Rear Lamp C412.
- Disconnect: For T_LMP_OUT_RR not equipped with BLIS, RH Rear Lamp C415.
- Disconnect: For T_LMP_OUT_LR equipped with BLIS, LH Rear Lamp C4483.
- Disconnect: For T_LMP_OUT_RR equipped with BLIS, RH Rear Lamp C4484.
- Disconnect: For T_LMP_OUT_LF or T_LMP_OUT_RF, BCM C2280F.

- Disconnect: For T_LMP_OUT_LR or T_LMP_OUT_RR, BCM C2280E.
- Ignition ON.
- Measure:

Click to display connectors

For T_LMP_OUT_RR

Positive Lead	Measurement / Action	Negative Lead
C2280E-44		Ground

Is any voltage present?

Yes	REPAIR the circuit.
No	GO to D6

D3 CHECK THE TURN LAMP OUTAGE CIRCUIT FOR A SHORT TO GROUND

- Ignition OFF.
- Disconnect: For T_LMP_OUT_LF, LH Headlamp C1284.
- Disconnect: For T_LMP_OUT_RF, RH Headlamp C1285.
- Disconnect: For T_LMP_OUT_LR not equipped with BLIS, LH Rear Lamp C412.
- Disconnect: For T_LMP_OUT_RR not equipped with BLIS, RH Rear Lamp C415.
- Disconnect: For T_LMP_OUT_LR equipped with BLIS, LH Rear Lamp C4483.
- Disconnect: For T_LMP_OUT_RR equipped with BLIS, RH Rear Lamp C4484.
- Disconnect: For T_LMP_OUT_LF or T_LMP_OUT_RF, BCM C2280F.
- Disconnect: For T_LMP_OUT_LR or T_LMP_OUT_RR, BCM C2280E.

- Measure:

Click to display connectors

For T_LMP_OUT_RR

Positive Lead	Measurement / Action	Negative Lead
C2280E-44	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to D4
No	REPAIR the circuit.

D4 CHECK THE TURN LAMP OUTAGE CIRCUIT FOR AN OPEN

- Measure:

Click to display connectors

For T_LMP_OUT_RR equipped with BLIS

Positive Lead	Measurement / Action	Negative Lead
C4484-10	Ω	C2280E-44

Is the resistance less than 3 ohms?

Yes	GO to D5
No	REPAIR the circuit.

D5 ISOLATE THE LAMP ASSEMBLY

- Connect: For T_LMP_OUT_LF or T_LMP_OUT_RF, BCM C2280F.
- Connect: For T_LMP_OUT_LR or T_LMP_OUT_RR, BCM C2280E.
- Ignition ON.
- Using a diagnostic scan tool, view BCM Parameter Identifications (PIDs).
- Monitor the Left Front Turn Lamp Outage Feedback Status (T_LMP_OUT_LF), Right Front Turn Lamp Outage Feedback Status (T_LMP_OUT_RF), Left Rear Turn Lamp Outage Feedback Status (T_LMP_OUT_LR) and Right Rear Turn Lamp Outage Feedback Status (T_LMP_OUT_RR) Parameter Identifications (PIDs).
- Connect a fused jumper wire:

Click to display connectors

For T_LMP_OUT_RR equipped with BLIS

Positive Lead	Measurement / Action	Negative Lead
C4484-10		Battery Positive

Does the suspect PID indicate Lamp On ?

Yes	For T_LMP_OUT_LF or T_LMP_OUT_RF, 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 T_LMP_OUT_LR or T_LMP_OUT_RR, INSTALL a new rear lamp assembly, REFER to: Rear Lamp Assembly (417-01 Exterior Lighting) .
No	GO to D6

D6 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.