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## 1968 FORD Mustang OEM Service and Repair Workshop Manual

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## B18 CHECK FOR CORRECT SODL (SIDE OBSTACLE DETECTION CONTROL MODULE LH) OPERATION

- Ignition OFF.
- Disconnect and inspect the SODL (side obstacle detection control module LH) connector and 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 SODL (side obstacle detection control module LH) connector and related in-line connectors. Make sure the connectors seat and latch correctly.
- Operate the system and determine if the concern is still present.

### Is the concern still present?

<b>Yes</b>	CHECK OASIS (Online Automotive Service Information System) for any applicable service articles TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new SODL (side obstacle detection control module LH) . REFER to: <a href="#">Side Obstacle Detection Control Module (SODCM)</a> (419-04A Side and Rear Vision, Removal and Installation).
<b>No</b>	The system is operating correctly at this time. Concern may have been caused by a loose or corroded connector. ADDRESS the root cause of any connector or pin issues.

## B19 CHECK FOR CORRECT SODR (SIDE OBSTACLE DETECTION CONTROL MODULE RH) OPERATION

- Ignition OFF.
- Disconnect and inspect the SODR (side obstacle detection control module RH) connector and 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 SODR (side obstacle detection control module RH) connector and related in-line connectors. Make sure the connectors seat and latch correctly.

PDM (passenger door module) B118D:15	Right Blind Spot Warning Indicator: Circuit Short To Battery Or Open	This DTC (diagnostic trouble code) sets in continuous memory and on-demand in the PDM (passenger door module) when a lower than expected current draw (such as a short to voltage) is detected on the RH (right-hand) exterior mirror BLIS (blind spot information system) ®/ CTA (cross traffic alert) LED (light emitting diode) output circuit.
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### Possible Sources

- Wiring, terminals or connectors
- DDM (driver door module)
- PDM (passenger door module)

### C1 VERIFY THE EXTERIOR MIRROR BLIS (BLIND SPOT INFORMATION SYSTEM) ®/ CTA (CROSS TRAFFIC ALERT) LED (LIGHT EMITTING DIODE) OPERATION

- Start the engine.
- Observe the exterior mirror BLIS (blind spot information system) ®/ CTA (cross traffic alert) Light Emitting Diodes (LEDs) for 10 seconds.

#### Is the always on condition still present?

<b>Yes</b>	If the LH (left-hand) LED (light emitting diode) is always ON, GO to <a href="#">C2</a> If the RH (right-hand) LED (light emitting diode) is always ON, GO to <a href="#">C4</a>
<b>No</b>	The system is operating correctly at this time. The concern may have been caused by an intermittent condition.

### C2 CHECK THE LH (LEFT-HAND) EXTERIOR MIRROR BLIS (BLIND SPOT INFORMATION SYSTEM) ®/ CTA (CROSS TRAFFIC ALERT) LED (LIGHT EMITTING DIODE) OUTPUT CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect DDM (driver door module) C501B .
- Ignition ON.

#### Does the BLIS (blind spot information system) ®/ CTA (cross traffic alert) LED (light emitting diode) turn off?

<b>Yes</b>	GO to <a href="#">C6</a>
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**C5 CHECK FOR A SHORT BETWEEN THE RH (RIGHT-HAND) BLIS (BLIND SPOT INFORMATION SYSTEM) ®/ CTA (CROSS TRAFFIC ALERT) LED (LIGHT EMITTING DIODE) OUTPUT CIRCUIT AND THE MEMORY POSITION SENSOR SUPPLY CIRCUIT**

- Ignition OFF.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C652B-7	$\Omega$	C652B-23

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

<b>Yes</b>	GO to <a href="#">C7</a>
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<b>No</b>	REPAIR the circuits.
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**C6 CHECK FOR CORRECT DDM (DRIVER DOOR MODULE) OPERATION**

- Ignition OFF.
- Disconnect and inspect the DDM (driver door module) connector and 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 (driver door module) connector and related in-line connectors. Make sure the connectors seat and latch correctly.
- Operate the system and determine if the concern is still present.

**Is the concern still present?**

<b>Yes</b>	CHECK OASIS (Online Automotive Service Information System) for any applicable service articles TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new DDM (driver door module) . REFER to: <a href="#">Driver Door Module (DDM)</a>
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Use the correct probe adapter(s) when making measurements. Failure to use the correct probe adapter(s) may cause damage to the connector. Use only Rotunda Flex Probes (NUD105-R025D)

Refer to Wiring Diagrams Cell 146 for schematic and connector information.

**Normal Operation and Fault Conditions** REFER to: [Blind Spot Information System - System Operation and Component Description](#)

(419-04A Side and Rear Vision, Description and Operation).

**Possible Sources**

- Wiring, terminals or connectors
- IPMA (image processing module A)

**D1 VERIFY THE EXTERIOR MIRROR BLIS (BLIND SPOT INFORMATION SYSTEM) ®/ CTA (CROSS TRAFFIC ALERT) LED (LIGHT EMITTING DIODE) OPERATION**

- Start the engine.
- Observe the exterior mirror BLIS (blind spot information system) ®/ CTA (cross traffic alert) Light Emitting Diodes (LEDs) for 10 seconds.

**Is the always on condition still present?**


<b>Yes</b>	GO to <a href="#">D2</a>
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<b>No</b>	The system is operating correctly at this time. The concern may have been caused by an intermittent condition.
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**D2 CHECK THE EXTERIOR MIRROR BLIS (BLIND SPOT INFORMATION SYSTEM) ®/ CTA (CROSS TRAFFIC ALERT) LED (LIGHT EMITTING DIODE) SUPPLY CIRCUITS FOR A SHORT TO VOLTAGE**

- Ignition OFF.
- Disconnect: IPMA (image processing module A) C242A.
- Ignition ON.
- Measure:

**For LH (left-hand) LED concern**

Positive Lead	Measurement / Action	Negative Lead
C242A-2		Ground

- Disconnect and inspect IPMA (image processing module A) connector.
- 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 IPMA (image processing module A) connector. Make sure it seats and latches correctly.
- Operate the system to determine if the concern is still present.

**Is the concern still present?**

<b>Yes</b>	CHECK OASIS (Online Automotive Service Information System) for any applicable service articles: TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new IPMA (image processing module A)  REFER to: <a href="#">Image Processing Module A (IPMA)</a> (419-07 Lane Keeping System, Removal and Installation).
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<b>No</b>	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.
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**PINPOINT TEST E : AN EXTERIOR MIRROR BLIS (BLIND SPOT INFORMATION SYSTEM) ®/ CTA (CROSS TRAFFIC ALERT) LED (LIGHT EMITTING DIODE) IS INOPERATIVE (FOR VEHICLE WITH DDM/PDM)**

Refer to Wiring Diagrams Cell 146 for schematic and connector information.

**Normal Operation and Fault Conditions** REFER to: [Blind Spot Information System - System Operation and Component Description](#) (419-04A Side and Rear Vision, Description and Operation).

**DTC Fault Trigger Conditions**

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
IPMA (image processing module A) B11D6:11	Driver Display Alert LED: Circuit Short To Ground	This DTC (diagnostic trouble code) sets in continuous memory and on-demand in the IPMA (image processing module A) when a higher than expected current draw is detected on the LH (left-hand) exterior mirror BLIS (blind spot information system) ®/

PDM (passenger door module) B118D:15	Right Blind Spot Warning Indicator: Circuit Short To Battery Or Open	This DTC (diagnostic trouble code) sets in continuous memory and on-demand in the PDM (passenger door module) when an open circuit is detected on the RH (right-hand) exterior mirror BLIS (blind spot information system) ®/ CTA (cross traffic alert) LED (light emitting diode) output circuit.
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### Possible Sources

- Wiring, terminals or connectors
- Communication network concern
- Exterior mirror
- DDM (driver door module)
- PDM (passenger door module)
- Exterior mirror BLIS (blind spot information system) ®/ CTA (cross traffic alert) LED (light emitting diode) (part of the exterior mirror glass)

### NOTICE

Use the correct probe adapter(s) when making measurements. Failure to use the correct probe adapter(s) may cause damage to the connector. Use only Rotunda Flex Probes (NUD105-R025D)

### E1 CHECK THE BLIS (BLIND SPOT INFORMATION SYSTEM) ®/ CTA (CROSS TRAFFIC ALERT) OPERATION

- Start the engine.
- Observe the left and right exterior mirror BLIS (blind spot information system) ®/ CTA (cross traffic alert) Light Emitting Diodes (LEDs).

**Do the left and right BLIS (blind spot information system) ®/ CTA (cross traffic alert) Light Emitting Diodes (LEDs) illuminate and turn off after 3 seconds?**

<b>Yes</b>	The system is operating correctly at this time. The concern may have been caused by an intermittent fault condition. VERIFY the operation of the BLIS (blind spot information system) ® and CTA (cross traffic alert) system.
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<b>No</b>	GO to <a href="#">E2</a>
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### E2 VERIFY THE SODL (SIDE OBSTACLE DETECTION CONTROL MODULE LH) AND SODR (SIDE OBSTACLE DETECTION CONTROL MODULE RH) PASS THE NETWORK TEST

**No**

If the LH (left-hand) BLIS (blind spot information system) ®/ CTA (cross traffic alert) LED (light emitting diode) is inoperative, GO to [E8](#) If the RH (right-hand) BLIS (blind spot information system) ®/ CTA (cross traffic alert) LED (light emitting diode) is inoperative, GO to [E14](#)

### **E5 CHECK THE DDM (DRIVER DOOR MODULE) DIAGNOSTIC TROUBLE CODES (DTCS) WITH THE LH (LEFT-HAND) BLIS (BLIND SPOT INFORMATION SYSTEM) ®/ CTA (CROSS TRAFFIC ALERT) LED (LIGHT EMITTING DIODE) DISCONNECTED**

- Using the diagnostic scan tool, clear the DDM (driver door module) Diagnostic Trouble Codes (DTCs).
- Ignition OFF.
- Disconnect: LH (left-hand) BLIS (blind spot information system) ®/ CTA (cross traffic alert) LED (light emitting diode) C576
- Ignition ON.

#### **NOTE**

***DTC (diagnostic trouble code) B118C:11 may be set during this step, it can be ignored.***

- Using the diagnostic scan tool, perform the DDM (driver door module) self-test.

#### **Is DTC (diagnostic trouble code) B118C:15 present?**

**Yes**

INSTALL a new LH (left-hand) exterior mirror glass.  
REFER to: [Exterior Mirror - Vehicles With: Long Arm Mirrors](#)  
(501-09 Rear View Mirrors, Removal and Installation).  
REFER to: [Exterior Mirror - Vehicles With: Short Arm Mirrors](#)  
(501-09 Rear View Mirrors, Removal and Installation).

**No**

GO to [E6](#)

### **E6 CHECK THE EXTERIOR MIRROR HARNESS FOR A SHORT TO GROUND**


- Using the diagnostic scan tool, clear the DDM (driver door module) Diagnostic Trouble Codes (DTCs).
- Ignition OFF.
- Disconnect: LH (left-hand) Exterior Mirror C521.
- Ignition ON.

#### **NOTE**



## DIODE) CIRCUITS JUMPED TOGETHER

- Ignition OFF.
- Disconnect: LH (left-hand) BLIS (blind spot information system) ®/ CTA (cross traffic alert) LED (light emitting diode) C576.
- Connect:

Positive Lead	Measurement / Action	Negative Lead
C576-1		C576-2


- Ignition ON.
- Using a diagnostic scan tool, perform the DDM (driver door module) self-test.

### Is DTC (diagnostic trouble code) B118C:11 present?

<b>Yes</b>	REMOVE the fused jumper wire. INSTALL a new LH (left-hand) exterior mirror glass. REFER to: <a href="#">Exterior Mirror - Vehicles With: Long Arm Mirrors</a> (501-09 Rear View Mirrors, Removal and Installation). REFER to: <a href="#">Exterior Mirror - Vehicles With: Short Arm Mirrors</a> (501-09 Rear View Mirrors, Removal and Installation).
<b>No</b>	REMOVE the fused jumper wire. GO to <a href="#">E9</a>

## E9 CHECK THE DDM (DRIVER DOOR MODULE) DIAGNOSTIC TROUBLE CODES (DTCS) WITH THE LH (LEFT-HAND) BLIS (BLIND SPOT INFORMATION SYSTEM) ®/ CTA (CROSS TRAFFIC ALERT) LED (LIGHT EMITTING DIODE) CIRCUITS JUMPED TOGETHER AT THE LH (LEFT-HAND) EXTERIOR MIRROR

- Ignition OFF.
- Disconnect: LH (left-hand) Exterior Mirror C521.
- Connect

Positive Lead	Measurement / Action	Negative Lead
C521-13		C521-20

- Ignition OFF.
- Disconnect: DDM (driver door module) C501B.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C521-13	$\Omega$	C501B-23
C521-20	$\Omega$	C501B-19

**Is the resistance less than 3 ohms?**

**Yes**    GO to [E17](#)

**No**    REPAIR the affected circuit.

**E11 CHECK THE PDM (PASSENGER DOOR MODULE) DIAGNOSTIC TROUBLE CODES (DTCs) WITH THE RH (RIGHT-HAND) BLIS (BLIND SPOT INFORMATION SYSTEM) ®/ CTA (CROSS TRAFFIC ALERT) LED (LIGHT EMITTING DIODE) DISCONNECTED**

- Using the diagnostic scan tool, clear the PDM (passenger door module) Diagnostic Trouble Codes (DTCs).
- Ignition OFF.
- Disconnect: RH (right-hand) BLIS (blind spot information system) ®/ CTA (cross traffic alert) LED (light emitting diode) C676.
- Ignition ON.

**NOTE**

***DTC (diagnostic trouble code) B118D:11 may set during this step, it can be ignored.***

- Using the diagnostic scan tool, perform the PDM (passenger door module) self-test.

**Is DTC (diagnostic trouble code) B118D:15 present?**