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1966 FORD Mustang OEM Service and Repair Workshop Manual

[Go to manual page](#)

Symptom Chart - CTA (cross traffic alert)

Condition	Action
A module does not respond to the diagnostic scan tool	GO to Pinpoint Test I
The CTA (cross traffic alert) system is inoperative or does not function correctly	GO to Pinpoint Test B
The CTA (cross traffic alert) system has poor or inconsistent performance	GO to Pinpoint Test B
The CTA (cross traffic alert) system message center warnings are not displayed and the exterior mirror BLIS (blind spot information system) ®/ CTA (cross traffic alert) LED (light emitting diode) does not illuminate	GO to Pinpoint Test B
An exterior mirror BLIS (blind spot information system) ®/ CTA (cross traffic alert) LED (light emitting diode) does not illuminate when the audio tone sounds for the CTA (cross traffic alert) system	GO to Pinpoint Test B
An exterior mirror BLIS (blind spot information system) ®/ CTA (cross traffic alert) LED (light emitting diode) is always on	GO to Pinpoint Test C
An exterior mirror BLIS (blind spot information system) ®/ CTA (cross traffic alert) LED (light emitting diode) does not illuminate	GO to Pinpoint Test E
The IPC (instrument panel cluster) message center displays a blocked sensor message	GO to Pinpoint Test G
The CTA (cross traffic alert) system cannot be turned off in the message center	GO to Pinpoint Test H

Symptom Chart - BLIS (blind spot information system) ® With Trailer Tow

Condition	Action
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- Communication network concern
- Obstruction or damage to the rear lamp assemblies or surrounding body panels
- Configuration concern
- SODL (side obstacle detection control module LH)
- SODR (side obstacle detection control module RH)
- IPC (instrument panel cluster) concern
- APIM (SYNC module) concern
- PCM (powertrain control module) concern
- GWM (gateway module A) concern
- IPMA (image processing module A) concern
- DDM (driver door module) concern (for vehicle with DDM/PDM only)
- PDM (passenger door module) concern (for vehicle with DDM/PDM only)
- TRM (trailer module) concern (For vehicle with TRM (trailer module))
- BCM (body control module) concern (For vehicle without TRM (trailer module))

Visual Inspection and Pre-checks

- For vehicles without BLIS (blind spot information system) with Trailer Tow, verify a trailer is not electrically connected to the vehicle.
- For vehicles with BLIS (blind spot information system) with Trailer Tow, verify a trailer is set up in the information and entertainment display unit.
- Check for damage to the rear lamp assemblies and surrounding body panels.

A1 VERIFY THE LH (LEFT-HAND) AND RH (RIGHT-HAND) EXTERIOR MIRROR BLIS (BLIND SPOT INFORMATION SYSTEM) ®/ CTA (CROSS TRAFFIC ALERT) LED (LIGHT EMITTING DIODE) OPERATION

No	The concern is caused by the trailer not being set up in the information and entertainment display unit. REFER to the Owner's Literature.
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A4 CHECK FOR SODL (SIDE OBSTACLE DETECTION CONTROL MODULE LH) AND SODR (SIDE OBSTACLE DETECTION CONTROL MODULE RH) OBSTRUCTIONS

- Ignition OFF.
- Inspect the rear lamp assemblies for a build-up of dirt, debris or any obstruction.

Are any obstructions present?

Yes	CLEAN and REMOVE all obstructions from the rear lamp assemblies.
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No	GO to A5
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A5 INSPECT THE REAR LAMP ASSEMBLIES AND SURROUNDING BODY PANELS FOR DAMAGE

- Perform a visual inspection of the rear lamp assemblies and surrounding body panels.

Is any damage present?

Yes	REPAIR or INSTALL new parts as necessary. REFER to: Rear Lamp Assembly (417-01 Exterior Lighting, Removal and Installation). REFER to: Side Obstacle Detection Control Module (SODCM) (419-04A Side and Rear Vision, Removal and Installation).
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No	GO to A6
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A6 VERIFY THE SODL (SIDE OBSTACLE DETECTION CONTROL MODULE LH) AND SODR (SIDE OBSTACLE DETECTION CONTROL MODULE RH) PASS THE NETWORK TEST

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

A9 VERIFY THE BLIS (BLIND SPOT INFORMATION SYSTEM) ® IS ENABLED IN THE INFORMATION AND ENTERTAINMENT DISPLAY UNIT

- NOTE**

Verify a MyKey® is NOT in use.

Navigate to the BLIS (blind spot information system) ® menu in the information and entertainment display unit and verify the BLIS (blind spot information system) ® is ON.

Is the BLIS (blind spot information system) ® ON?

Yes	GO to A10
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No	ACTIVATE the BLIS (blind spot information system) ®. If the system cannot be activated, GO to A11
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A10 CHECK FOR CORRECT GEAR INPUT

- Apply the parking brake.
- While monitoring the reversing lamps, move the selector lever through the entire range.

Do the reversing lamps illuminate only in reverse?

Yes	GO to A11
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No	REFER to: Reversing Lamps (417-01 Exterior Lighting, Diagnosis and Testing).
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A11 PERFORM THE PCM (POWERTRAIN CONTROL MODULE) KOEO (KEY ON, ENGINE OFF) SELF-TEST

- Using a diagnostic scan tool, perform the PCM (powertrain control module) KOEO (key on, engine off) self-test.

Are any Diagnostic Trouble Codes (DTCs) present?

Are any Diagnostic Trouble Codes (DTCs) present?

Yes	REFER to the IPMA (image processing module A) DTC (diagnostic trouble code) chart in this section.
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No	GO to A15
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A15 PERFORM THE TRM (TRAILER MODULE) SELF-TEST

- Using a diagnostic scan tool, perform the TRM (trailer module) self-test.

Are any Diagnostic Trouble Codes (DTCs) present?

Yes	REFER to: Trailer Lamps (417-01 Exterior Lighting, Diagnosis and Testing).
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No	GO to A16
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A16 CHECK THE GWM (GATEWAY MODULE A) CONTINUOUS MEMORY DIAGNOSTIC TROUBLE CODES (CMDTCS)

- Using a diagnostic scan tool, check the GWM (gateway module A) Continuous Memory Diagnostic Trouble Codes (CMDTCS).

Are any Diagnostic Trouble Codes (DTCs) present?

Yes	REFER to: Controller Area Network (CAN) Module Communications Network (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
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No	GO to A17
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A17 VERIFY THE SODL (SIDE OBSTACLE DETECTION CONTROL MODULE LH) AND SODR (SIDE OBSTACLE DETECTION CONTROL MODULE RH) CONFIGURATION

- Check the vehicle service history for recent service action related to the SODL (side obstacle detection control module LH) and SODR (side obstacle detection control module RH) .

A19 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.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS (Online Automotive Service Information System) for any applicable service articles TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new SODR (side obstacle detection control module RH) . REFER to: Side Obstacle Detection Control Module (SODCM) (419-04A Side and Rear Vision, Removal and Installation).
No	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.

PINPOINT TEST B : THE CTA (CROSS TRAFFIC ALERT) SYSTEM IS INOPERATIVE OR DOES NOT FUNCTION CORRECTLY

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

- Communication network concern
- Obstruction or damage to the rear lamp assemblies or surrounding body panels
- Configuration concern
- SODL (side obstacle detection control module LH)

Yes	The concern may have been caused by an intermittent condition such as poor weather conditions or the customer's perception of proper CTA (cross traffic alert) system operation. REVIEW proper system operation with the customer. REFER to the Owner's Literature.
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No	GO to B3
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B3 CHECK FOR SODL (SIDE OBSTACLE DETECTION CONTROL MODULE LH) AND SODR (SIDE OBSTACLE DETECTION CONTROL MODULE RH) OBSTRUCTIONS

- Ignition OFF.
 - Inspect the rear lamp assemblies for a build-up of dirt, debris or any obstruction.
- Are any obstructions present?**
- | | |
|------------|--|
| Yes | CLEAN and REMOVE all obstructions from the rear lamp assemblies. |
|------------|--|
- | | |
|-----------|--------------------------|
| No | GO to B4 |
|-----------|--------------------------|

B4 INSPECT THE REAR LAMP ASSEMBLIES AND SURROUNDING BODY PANELS FOR DAMAGE

- Perform a visual inspection of the rear lamp assemblies and surrounding body panels.
- Is any damage present?**
- | | |
|------------|---|
| Yes | REPAIR or INSTALL new parts as necessary.
REFER to: Rear Lamp Assembly
(417-01 Exterior Lighting, Removal and Installation).
REFER to: Side Obstacle Detection Control Module (SODCM)
(419-04A Side and Rear Vision, Removal and Installation). |
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- | | |
|-----------|--------------------------|
| No | GO to B5 |
|-----------|--------------------------|

B5 VERIFY THE SODL (SIDE OBSTACLE DETECTION CONTROL MODULE LH) AND SODR (SIDE OBSTACLE DETECTION CONTROL MODULE RH) PASS THE NETWORK TEST

- Verify the message center and information and entertainment display unit functions correctly.

Does the message center function correctly?

Yes	GO to B8
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No	REFER to: Instrumentation, Message Center and Warning Chimes (413-01 Instrumentation, Message Center and Warning Chimes, Diagnosis and Testing). REFER to: Information and Entertainment System (415-00 Information and Entertainment System - General Information, Diagnosis and Testing).
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B8 VERIFY THE CTA (CROSS TRAFFIC ALERT) IS ENABLED IN THE INFORMATION AND ENTERTAINMENT DISPLAY UNIT

• **NOTE**

Verify a MyKey® is NOT in use.

Navigate to the CTA (cross traffic alert) menu in the information and entertainment display unit and verify the CTA (cross traffic alert) system is ON.

Is the CTA (cross traffic alert) system ON?

Yes	GO to B9
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No	ACTIVATE the CTA (cross traffic alert) system. If the system cannot be activated, GO to B10
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B9 CHECK FOR CORRECT GEAR INPUT

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

Are any Diagnostic Trouble Codes (DTCs) present?

Yes	For DTC (diagnostic trouble code) B118D:11 or DTC (diagnostic trouble code) B118D:15, REFER to the PDM (passenger door module) DTC (diagnostic trouble code) chart in this section. For all other Diagnostic Trouble Codes (DTCs), REFER to: Locks, Latches and Entry Systems (501-14 Handles, Locks, Latches and Entry Systems, Diagnosis and Testing).
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No	GO to B13
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B13 PERFORM THE IPMA (IMAGE PROCESSING MODULE A) SELF-TEST

- Using a diagnostic scan tool, perform the IPMA (image processing module A) self-test.

Are any Diagnostic Trouble Codes (DTCs) present?

Yes	REFER to the IPMA (image processing module A) DTC (diagnostic trouble code) chart in this section.
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No	GO to B14
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B14 PERFORM THE TRM (TRAILER MODULE) SELF-TEST

- Using a diagnostic scan tool, perform the TRM (trailer module) self-test.

Are any Diagnostic Trouble Codes (DTCs) present?

Yes	REFER to: Trailer Lamps (417-01 Exterior Lighting, Diagnosis and Testing).
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No	GO to B15
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B15 PERFORM THE PAM (PARKING ASSIST CONTROL MODULE) SELF-TEST

- Using a diagnostic scan tool, perform the PAM (parking assist control module) self-test.