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## 2016 FORD F-150 Super Crew OEM Service and Repair Workshop Manual

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DDM (driver door module)	B11D6:13	Driver Display Alert LED: Circuit Open	<a href="#">GO to Pinpoint Test D</a>
IPMA (image processing module A)	B15EC:14	Side Obstacle Detector "A": Circuit Short To Ground Or Open	<a href="#">GO to Pinpoint Test Y</a>
IPMA (image processing module A)	B15EC:15	Side Obstacle Detector "A": Circuit Short To Battery Or Open	<a href="#">GO to Pinpoint Test Y</a>
IPMA (image processing module A)	B15ED:14	Side Obstacle Detector "B": Circuit Short To Ground Or Open	<a href="#">GO to Pinpoint Test Z</a>
IPMA (image processing module A)	B15ED:15	Side Obstacle Detector "B": Circuit Short To Battery Or Open	<a href="#">GO to Pinpoint Test Z</a>
IPMA (image processing module A)	B15EE:14	Side Obstacle Detector "C": Circuit Short To Ground Or Open	<a href="#">GO to Pinpoint Test AA</a>
IPMA (image processing module A)	B15EE:15	Side Obstacle Detector "C": Circuit Short To Battery Or Open	<a href="#">GO to Pinpoint Test AA</a>
IPMA (image processing module A)	B15EF:14	Side Obstacle Detector "D": Circuit Short To Ground Or Open	<a href="#">GO to Pinpoint Test AB</a>
IPMA (image processing module A)	B15EF:15	Side Obstacle Detector "D": Circuit Short To Battery Or Open	<a href="#">GO to Pinpoint Test AB</a>
PDM (passenger door module)	B118D:11	Right Blind Spot Warning Indicator: Circuit Short To Ground	<a href="#">GO to Pinpoint Test D</a>
PDM (passenger door module)	B118D:15	Right Blind Spot Warning Indicator: Circuit Short To Battery Or Open	<a href="#">GO to Pinpoint Test C</a>

SODCMC (Side Obstacle Detection Control Module C)	U2100:00	Initial Configuration Not Complete: No Sub Type Information	<a href="#">GO to Pinpoint Test T</a>
SODCMC (Side Obstacle Detection Control Module C)	U2300:55	Central Configuration: Not Configured	<a href="#">GO to Pinpoint Test T</a>
SODCMC (Side Obstacle Detection Control Module C)	U3000:41	Control Module: General Checksum Failure	<a href="#">GO to Pinpoint Test U</a>
SODCMC (Side Obstacle Detection Control Module C)	U3000:42	Control Module: General Memory Failure	<a href="#">GO to Pinpoint Test U</a>
SODCMC (Side Obstacle Detection Control Module C)	U3000:44	Control Module: Data Memory Failure	<a href="#">GO to Pinpoint Test U</a>
SODCMC (Side Obstacle Detection Control Module C)	U3000:49	Control Module: Internal Electronic Failure	<a href="#">GO to Pinpoint Test U</a>
SODCMC (Side Obstacle Detection Control Module C)	U3002:62	Vehicle Identification Number: Signal Compare Failure	<a href="#">GO to Pinpoint Test V</a>
SODCMC (Side Obstacle Detection Control Module C)	U3003:16	Battery Voltage: Circuit Voltage Below Threshold	<a href="#">GO to Pinpoint Test W</a>
SODCMC (Side Obstacle Detection Control Module C)	U3003:17	Battery Voltage: Circuit Voltage Above Threshold	<a href="#">GO to Pinpoint Test X</a>
SODCMD (Side Obstacle Detection Control Module D)	B129D:54	Right Front Side Sensor: Missing Calibration	<a href="#">GO to Pinpoint Test O</a>

SODCMD (Side Obstacle Detection Control Module D)	U3000:44	Control Module: Data Memory Failure	<a href="#">GO to Pinpoint Test U</a>
SODCMD (Side Obstacle Detection Control Module D)	U3000:49	Control Module: Internal Electronic Failure	<a href="#">GO to Pinpoint Test U</a>
SODCMD (Side Obstacle Detection Control Module D)	U3002:62	Vehicle Identification Number: Signal Compare Failure	<a href="#">GO to Pinpoint Test V</a>
SODCMD (Side Obstacle Detection Control Module D)	U3003:16	Battery Voltage: Circuit Voltage Below Threshold	<a href="#">GO to Pinpoint Test W</a>
SODCMD (Side Obstacle Detection Control Module D)	U3003:17	Battery Voltage: Circuit Voltage Above Threshold	<a href="#">GO to Pinpoint Test X</a>
SODL (side obstacle detection control module LH)	B13F3:54	Left Rear Side Sensor: Missing Calibration	<a href="#">GO to Pinpoint Test O</a>
SODL (side obstacle detection control module LH)	B13F3:96	Left Rear Side Sensor: Component Internal Failure	<a href="#">GO to Pinpoint Test P</a>
SODL (side obstacle detection control module LH)	B13F3:97	Left Rear Side Sensor: Component Or System Operation Obstructed Or Blocked	<a href="#">GO to Pinpoint Test Q</a>
SODL (side obstacle detection control module LH)	B13F3:98	Left Rear Side Sensor: Component Or System Over Temperature	<a href="#">GO to Pinpoint Test R</a>
SODL (side obstacle detection control module LH)	B15D9:78	Left Rear Side Sensor Horizontal Alignment: Alignment Or Adjustment Incorrect	<a href="#">GO to Pinpoint Test O</a>

SODL (side obstacle detection control module LH)	U3003:17	Battery Voltage: Circuit Voltage Above Threshold	<a href="#">GO to Pinpoint Test X</a>
SODR (side obstacle detection control module RH)	B13F4:54	Right Rear Side Sensor: Missing Calibration	<a href="#">GO to Pinpoint Test O</a>
SODR (side obstacle detection control module RH)	B13F4:96	Right Rear Side Sensor: Component Internal Failure	<a href="#">GO to Pinpoint Test P</a>
SODR (side obstacle detection control module RH)	B13F4:97	Right Rear Side Sensor: Component Or System Operation Obstructed Or Blocked	<a href="#">GO to Pinpoint Test Q</a>
SODR (side obstacle detection control module RH)	B13F4:98	Right Rear Side Sensor: Component Or System Over Temperature	<a href="#">GO to Pinpoint Test R</a>
SODR (side obstacle detection control module RH)	B157D:78	Right Rear Side Sensor Vertical Alignment: Alignment Or Adjustment Incorrect	<a href="#">GO to Pinpoint Test O</a>
SODR (side obstacle detection control module RH)	B159C:78	Right Rear Side Sensor Horizontal Alignment: Alignment Or Adjustment Incorrect	<a href="#">GO to Pinpoint Test O</a>
SODR (side obstacle detection control module RH)	U2008:08	Sensor Cluster: Bus Signal/Message Failures	<a href="#">GO to Pinpoint Test S</a>
SODR (side obstacle detection control module RH)	U2100:00	Initial Configuration Not Complete: No Sub Type Information	<a href="#">GO to Pinpoint Test T</a>
SODR (side obstacle detection control module RH)	U2300:55	Central Configuration: Not Configured	<a href="#">GO to Pinpoint Test T</a>

Driver Aides & Information > Blind Spot (BLIS)/Cross Traffic > Controls > Inoperative	<a href="#">GO to Pinpoint Test B</a>
Driver Aides & Information > Blind Spot (BLIS)/Cross Traffic > Controls > Inoperative	<a href="#">GO to Pinpoint Test F</a>
Driver Aides & Information > Blind Spot (BLIS)/Cross Traffic > Controls > Inoperative	<a href="#">GO to Pinpoint Test G</a>
Driver Aides & Information > Blind Spot (BLIS)/Cross Traffic > Controls > Inoperative	<a href="#">GO to Pinpoint Test I</a>
Driver Aides & Information > Blind Spot (BLIS)/Cross Traffic > Performance > Inaccurate	<a href="#">GO to Pinpoint Test J</a>
Driver Aides & Information > Blind Spot (BLIS)/Cross Traffic > Performance > Inaccurate	<a href="#">GO to Pinpoint Test K</a>
Driver Aides & Information > Blind Spot (BLIS)/Cross Traffic > Performance > Inaccurate	<a href="#">GO to Pinpoint Test M</a>
Driver Aides & Information > Blind Spot (BLIS)/Cross Traffic > Performance > Inoperative	<a href="#">GO to Pinpoint Test A</a>
Driver Aides & Information > Blind Spot (BLIS)/Cross Traffic > Performance > Inoperative	<a href="#">GO to Pinpoint Test B</a>
Driver Aides & Information > Blind Spot (BLIS)/Cross Traffic > Performance > Inoperative	<a href="#">GO to Pinpoint Test I</a>
Driver Aides & Information > Blind Spot (BLIS)/Cross Traffic > Performance > Inoperative	<a href="#">GO to Pinpoint Test J</a>
Driver Aides & Information > Blind Spot (BLIS)/Cross Traffic > Performance > Inoperative	<a href="#">GO to Pinpoint Test K</a>
Driver Aides & Information > Blind Spot (BLIS)/Cross Traffic > Performance > Inoperative	<a href="#">GO to Pinpoint Test L</a>
Driver Aides & Information > Blind Spot (BLIS)/Cross Traffic > Performance > Inoperative	<a href="#">GO to Pinpoint Test M</a>
Driver Aid & Information > Park Assist > Controls > Inoperative	<a href="#">GO to Pinpoint Test N</a>

Rule out any base BLIS (blind spot information system) ®/ CTA (cross traffic alert) system concerns prior to diagnosing the BLIS (blind spot information system) ® with trailer tow system (if equipped).

#### Symptom Chart - BLIS (blind spot information system) ®

Condition	Action
A module does not respond to the diagnostic scan tool	<a href="#">GO to Pinpoint Test G</a>
The BLIS (blind spot information system) ® is inoperative or does not function correctly	<a href="#">GO to Pinpoint Test A</a>
The BLIS (blind spot information system) ® has poor or inconsistent performance	<a href="#">GO to Pinpoint Test A</a>
The BLIS (blind spot information 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	<a href="#">GO to Pinpoint Test A</a>
Trailer isn't identified in the message center ( BLIS (blind spot information system) ® with Trailer Tow)	<a href="#">GO to Pinpoint Test A</a>
An exterior mirror BLIS (blind spot information system) ®/ CTA (cross traffic alert) LED (light emitting diode) is always on	<a href="#">GO to Pinpoint Test C</a>
An exterior mirror BLIS (blind spot information system) ®/ CTA (cross traffic alert) LED (light emitting diode) does not illuminate	<a href="#">GO to Pinpoint Test D</a>
The IPC (instrument panel cluster) message center displays a blocked sensor message	<a href="#">GO to Pinpoint Test E</a>
The BLIS (blind spot information system) ® cannot be turned off in the message center	<a href="#">GO to Pinpoint Test F</a>

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

Condition	Action
A module does not communicate with the diagnostic scan tool	<a href="#">GO to Pinpoint Test G</a>
The BLIS (blind spot information system) ® With Trailer Tow system is inoperative (when a trailer is connected BLIS (blind spot information system) ® and CTA (cross traffic alert) automatically shut off)	<a href="#">GO to Pinpoint Test I</a>
The BLIS (blind spot information system) ® With Trailer Tow receives late alerts. (no alerting alongside trailer, only when target is alongside vehicle)	<a href="#">GO to Pinpoint Test J</a>
The BLIS (blind spot information system) ® With Trailer Tow receives early alerts. (alerting when target is far behind the BLIS (blind spot information system) ® With Trailer Tow blind spot zone)	<a href="#">GO to Pinpoint Test K</a>
The BLIS (blind spot information system) ® With Trailer Tow system receives false alerts.	<a href="#">GO to Pinpoint Test L</a>
The BLIS (blind spot information system) ® With Trailer Tow is missing target vehicles.	<a href="#">GO to Pinpoint Test M</a>

## Symptom Chart - Reverse Brake Assist

Condition	Action
The reverse brake assist is inoperative or does not operate correctly	<a href="#">GO to Pinpoint Test N</a>

## Pinpoint Tests

### PINPOINT TEST A : THE BLIS (BLIND SPOT INFORMATION 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](#)



## A2 VERIFY THE BLIS (BLIND SPOT INFORMATION SYSTEM) ® OPERATION

- Verify the operation of the BLIS (blind spot information system) ®.

### Does the BLIS (blind spot information system) ® operate correctly?

Yes	The concern may have been caused by an intermittent condition such as poor weather conditions or the customer's perception of proper BLIS (blind spot information system) ® operation. REVIEW the normal system operation with the customer. REFER to the Owner's Literature.
No	For vehicles without BLIS (blind spot information system) with Trailer Tow, GO to <a href="#">A4</a> For vehicles with BLIS (blind spot information system) with Trailer Tow, GO to <a href="#">A3</a>

## A3 VERIFY THAT A TRAILER IS SET UP IN THE INFORMATION AND ENTERTAINMENT DISPLAY UNIT

- Ignition ON.
- Using the Information and Entertainment Display Unit, check to see if there is a trailer configured.

### Is there a trailer configured in the Information and Entertainment Display Unit ?

Yes	GO to <a href="#">A4</a>
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.

## 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.
No	GO to <a href="#">A5</a>

<b>Yes</b>	REFER to the SODL (side obstacle detection control module LH) , SODR (side obstacle detection control module RH) and IPMA (image processing module A) DTC (diagnostic trouble code) chart in this section.
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<b>No</b>	GO to <a href="#">A8</a>
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## **A8 VERIFY THE MESSAGE CENTER AND INFORMATION AND ENTERTAINMENT DISPLAY UNIT FUNCTIONALITY**

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

**Does the message center and information and entertainment display unit functions correctly?**

<b>Yes</b>	GO to <a href="#">A9</a>
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<b>No</b>	<p>REFER to: <a href="#">Instrumentation, Message Center and Warning Chimes</a>(413-01 Instrumentation, Message Center and Warning Chimes, Diagnosis and Testing).</p> <p>REFER to: <a href="#">Information and Entertainment System</a> (415-00 Information and Entertainment System - General Information, Diagnosis and Testing).</p>
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## **A9 VERIFY THE BLIS (BLIND SPOT INFORMATION SYSTEM) ® IS ENABLED IN THE INFORMATION AND ENTERTAINMENT DISPLAY UNIT**