Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

1966 FORD Mustang OEM Wiring Diagrams

Go to manual page

- Ignition OFF.
- Disconnect and inspect the SODCMC (Side Obstacle Detection Control Module C) , SODCMD (Side Obstacle Detection Control Module D) , SODL (side obstacle detection control module LH) or SODR (side obstacle detection control module RH) 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 SODCMC (Side Obstacle Detection Control Module C) , SODCMD (Side Obstacle Detection Control Module D) , SODL (side obstacle detection control module LH) or SODR (side obstacle detection control module RH) connector. 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 (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 SODCMC (Side Obstacle Detection Control Module C) , SODCMD (Side Obstacle Detection Control Module D) , SODL (side obstacle detection control module LH) or SODR (side obstacle detection control module RH) . REFER to: Side Obstacle Detection Control Module C (SODCMC) (419-04A Side and Rear Vision, Removal and Installation). REFER to: Side Obstacle Detection Control Module D (SODCMD) (419-04A Side and Rear Vision, Removal and Installation). 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. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.

PINPOINT TEST Y : DTC (DIAGNOSTIC TROUBLE CODE) B15EC:14, DTC (DIAGNOSTIC TROUBLE CODE) B15EC:15

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

	connections. ADDRESS the root cause of any connector or pin issues.

Y2 CHECK FOR SHORT TO GROUND WITH THE SODL (SIDE OBSTACLE DETECTION CONTROL MODULE LH) DISCONNECTED

- Ignition OFF.
- For Incandescent rear lamps.
- Disconnect: SODL (side obstacle detection control module LH) C412B.
- For LED (light emitting diode) rear lamps.
- Disconnect: SODL (side obstacle detection control module LH) C4483.
- Ignition ON.
- Using a diagnostic scan tool, clear the IPMA (image processing module A) Diagnostic Trouble Codes (DTCs).
- **NOTE**

  DTC (diagnostic trouble code) B15EC:15 may be present during this step and can be disregarded at this time.

  Perform the IPMA (image processing module A) self-test.

Is DTC (diagnostic trouble code) B15EC:14 present?

Yes	INSTALL a new SODL (side obstacle detection control module LH) . REFER to: Side Obstacle Detection Control Module (SODCM) (419-04A Side and Rear Vision, Removal and Installation).
No	GO to Y3

Y3 CHECK THE IPMA (IMAGE PROCESSING MODULE A) OUTPUT CIRCUIT FOR A SHORT TO GROUND

- Ignition OFF.
- Disconnect: IPMA (image processing module A) C242B.
- For Incandescent rear lamps, measure:

Positive Lead	Measurement / Action	Negative Lead

Yes	GO to Y7

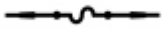
No	REPAIR the circuits.

Y5 CHECK FOR DTC (DIAGNOSTIC TROUBLE CODE) B15EC:15 WITH THE SODL (SIDE OBSTACLE DETECTION CONTROL MODULE LH) CIRCUITS JUMPERED TOGETHER

- Ignition OFF.
- For Incandescent rear lamps.
- Disconnect: SODL (side obstacle detection control module LH) C412B.
- For LED (light emitting diode) rear lamps.
- Disconnect: SODL (side obstacle detection control module LH) C4483.
- For Incandescent rear lamps, Connect:

Lead 1	Measurement / Action	Lead 2
C412B-1		C412B-2
C412B-1		C412B-5

- For LED (light emitting diode) rear lamps, Connect:

Lead 1	Measurement / Action	Lead 2
C4483-8		C4483-5
C4483-8		C4483-9

- Ignition ON.

C242B-14	Ω	C4483-8
C242B-5	Ω	C4483-5
C242B-5	Ω	C4483-9

Are the resistances less than 3 ohms?

Yes	GO to Y7

No	REPAIR the affected circuit.

Y7 CHECK FOR CORRECT IPMA (IMAGE PROCESSING MODULE A) OPERATION

- 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?

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 IPMA (image processing module A) REFER to: Image Processing Module A (IPMA) (419-07 Lane Keeping System, Removal and Installation).

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

Is DTC (diagnostic trouble code) B15ED:14 or DTC (diagnostic trouble code) B15ED:15 present?

Yes	For DTC (diagnostic trouble code) B15ED:14, GO to Z2 For DTC (diagnostic trouble code) B15ED:15, GO to Z5

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.

Z2 CHECK FOR SHORT TO GROUND WITH THE SODR (SIDE OBSTACLE DETECTION CONTROL MODULE RH) DISCONNECTED

- Ignition OFF.
- For Incandescent rear lamps.
- Disconnect: SODR (side obstacle detection control module RH) C415B.
- For LED (light emitting diode) rear lamps.
- Disconnect: SODR (side obstacle detection control module RH) C4484.
- Ignition ON.
- Using a diagnostic scan tool, clear the IPMA (image processing module A) Diagnostic Trouble Codes (DTCs).
- **NOTE**

  DTC (diagnostic trouble code) B15ED:15 may be present during this step and can be disregarded at this time.

  Perform the IPMA (image processing module A) self-test.

Is DTC (diagnostic trouble code) B15ED:14 present?

Yes	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	GO to Z3

Positive Lead	Measurement / Action	Negative Lead
C242B-11	Ω	C242B-2

Is the resistance greater than 10,000 ohms?

Yes	GO to Z7

No	REPAIR the circuits.

Z5 CHECK FOR DTC (DIAGNOSTIC TROUBLE CODE) B15ED:15 WITH THE SODR (SIDE OBSTACLE DETECTION CONTROL MODULE RH) CIRCUITS JUMPERED TOGETHER

- Ignition OFF.
- For Incandescent rear lamps.
- Disconnect: SODR (side obstacle detection control module RH) C415B.
- For LED (light emitting diode) rear lamps.
- Disconnect: SODR (side obstacle detection control module RH) C4484.
- For Incandescent rear lamps, Connect:

Lead 1	Measurement / Action	Lead 2
C415B-1		C415B-2

- For LED (light emitting diode) rear lamps, Connect:

Lead 1	Measurement / Action	Lead 2
C4484-8		C4484-5

- Ignition ON.

C242B-2	Ω	C4484-5

Are the resistances less than 3 ohms?

Yes	GO to Z7

No	REPAIR the affected circuit.

Z7 CHECK FOR CORRECT IPMA (IMAGE PROCESSING MODULE A) OPERATION

- 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?

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 IPMA (image processing module A) REFER to: Image Processing Module A (IPMA) (419-07 Lane Keeping System, 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.

PINPOINT TEST AA : DTC (DIAGNOSTIC TROUBLE CODE) B15EE:14, DTC (DIAGNOSTIC TROUBLE CODE) B15EE:15

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.

AA2 CHECK FOR SHORT TO GROUND WITH THE SODCMC (SIDE OBSTACLE DETECTION CONTROL MODULE C) DISCONNECTED

- Ignition OFF.
- Disconnect: SODCMC (Side Obstacle Detection Control Module C) C1483.
- Ignition ON.
- Using a diagnostic scan tool, clear the IPMA (image processing module A) Diagnostic Trouble Codes (DTCs).
- **NOTE**

  DTC (diagnostic trouble code) B15EE:15 may be present during this step and can be disregarded at this time.

  Perform the IPMA (image processing module A) self-test.

Is DTC (diagnostic trouble code) B15EE:14 present?

Yes	INSTALL a new SODCMC (Side Obstacle Detection Control Module C) . REFER to: Side Obstacle Detection Control Module C (SODCMC) (419-04A Side and Rear Vision, Removal and Installation).

No	GO to AA3

AA3 CHECK THE IPMA (IMAGE PROCESSING MODULE A) OUTPUT CIRCUIT FOR A SHORT TO GROUND

- Ignition OFF.
- Disconnect: IPMA (image processing module A) C242C.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C242C-14	Ω	Ground

C1483-1		C1483-8

- Ignition ON.
- Using a diagnostic scan tool, clear the IPMA (image processing module A) Diagnostic Trouble Codes (DTCs).
- Perform the IPMA (image processing module A) self-test.

Is DTC (diagnostic trouble code) B15EE:14 present?

Yes	REMOVE the fused jumper wire. INSTALL a new SODCMC (Side Obstacle Detection Control Module C) . REFER to: Side Obstacle Detection Control Module C (SODCMC) (419-04A Side and Rear Vision, Removal and Installation).

No	REMOVE the fused jumper wire. GO to AA6

AA6 CHECK THE IPMA (IMAGE PROCESSING MODULE A) SODCMC (SIDE OBSTACLE DETECTION CONTROL MODULE C) CIRCUITS FOR AN OPEN

- Ignition OFF.
- Disconnect: IPMA (image processing module A) C242C.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C242C-14	Ω	C1483-1
C242C-3	Ω	C1483-4
C242C-3	Ω	C1483-8