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1966 FORD Mustang OEM Wiring Diagrams

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- 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?

	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
Yes	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).
	The system is operating correctly at this time. The concern may have been caused by module
Νο	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.

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?

	INSTALL a new SODL (side obstacle detection control module LH) .
Yes	REFER to: Side Obstacle Detection Control Module (SODCM)
	(419-04A Side and Rear Vision, Removal and Installation).

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

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?

 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?

: trouble code) B15ED:14, GO to Z2 For DT	C (diagnostic trouble code)
ating correctly at this time. The concern ma ESS the root cause of any connector or pin	ay have been caused by module issues.
ROUND WITH THE SODR (SIDE OBSTACLE	DETECTION CONTROL MODULE
amps. obstacle detection control module RH) C4 liode) rear lamps. obstacle detection control module RH) C4 tool, clear the IPMA (image processing mod	15B. 484. dule A) Diagnostic Trouble Codes
e code) B15ED:15 may be present during t	his step and can be disregarded at
e processing module A) self-test. code) B15ED:14 present?	
OR (side obstacle detection control module stacle Detection Control Module (SODCM) Rear Vision, Removal and Installation).	RH) .

	Positive Le	ead Measure	ment / Action	Negative Lead	
	C242B-11	ſ	2	C242B-2	
ls th	e resistano	ce greater tha	n 10,000 ohms	5?	
Yes	GO to	Z7			
No	REPAIR	R the circuits.			
Z5 CI DETE	HECK FOR	DTC (DIAGNO NTROL MODU	STIC TROUBLE ILE RH) CIRCUI	CODE) B15ED:15 TS JUMPERED TO	WITH THE SODR (SIDE OBSTACLE DGETHER
•	For Incand Disconnect For LED (lig Disconnect For Incand	r. escent rear lar :: SODR (side o ght emitting dio :: SODR (side o escent rear lar	nps. bstacle detectio ode) rear lamp bstacle detectio nps, Connect:	on control modul s. on control modul	e RH) C415B. e RH) C4484.
	Lead 1	Measuremen	t / Action Lea	d 2	
	C415B-1		C41	5B-2	
•	For LED (lig	ght emitting die	ode) rear lamp	s, Connect:	
	Lead 1	Measuremen	t / Action Lea	d 2	
	C4484-8		- C44	84-5	

• Ignition ON.

				1	
	C242B-2	Ω	C4484-5		
Are t	the resistances	less than 3 ohms?]	
Yes	GO to Z7				
No	REPAIR the	affected circuit.			
Z7 CI	HECK FOR CORR	ECT IPMA (IMAGE P	ROCESSING MODU	-E A) OPERATION	
• • Is th	 corrosion (i damaged o pushed-out Reconnect the IF Operate the syst e concern still p 	nstall new connector r bent pins - install n pins - install new pi PMA (image processi tem to determine if t present?	r or terminals - clean lew terminals/pins ns as necessary ng module A) conne the concern is still pr	module pins) ctor. Make sure it s esent.	eats and latches correctl
Yes	CHECK OAS TSB (Technin FSA (Field So FOLLOW the IPMA (image REFER to: 1 (419-07 Lan	IS (Online Automotiv cal Service Bulletin) , ervice Action) . If a se e service article instr e processing module mage Processing Mo e Keeping System, R	ve Service Informatio GSB (General Service ervice article exists for uctions. If no service e A) Doule A (IPMA) emoval and Installat	n System) for any a e Bulletin) , SSM (sp or this concern, DISC articles address th ion).	applicable service articles becial service message) o CONTINUE this test and is concern, INSTALL a new
No	The system connections	is operating correctl 5. ADDRESS the root	y at this time. The co cause of any connec	ncern may have be tor or pin issues.	en caused by module

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

Νο	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 CHE MODULI	ECK FOR SHORT TO GROUND WITH THE SODCMC (SIDE OBSTACLE DETECTION CONTROL E C) DISCONNECTED
 Igni Disc Igni Usir (DTender) 	tion OFF. connect: SODCMC (Side Obstacle Detection Control Module C) C1483. tion ON. ng a diagnostic scan tool, clear the IPMA (image processing module A) Diagnostic Trouble Codes Cs).
• N DT th Per	IOTE TC (diagnostic trouble code) B15EE:15 may be present during this step and can be disregarded at is time. form the IPMA (image processing module A) self-test.
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).
Νο	GO to AA3
 AA3 CHE Igni Disc Mea 	tion OFF. connect: IPMA (image processing module A) C242C.



- 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?

REMOVE the fused jumper wire.

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

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