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2018 FORD Mustang Shelby GT350 OEM Service and Repair Workshop Manual

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C5020-2	Ω	C5020-7
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Are the resistances greater than 10,000 ohms?

Yes GO to [E15](#)

No REPAIR the affected circuit.

E13 CHECK THE MIRROR TELESCOPE SWITCH ILLUMINATION CIRCUIT FOR VOLTAGE

- Ignition OFF.
- Disconnect Exterior mirror telescope switch C5020 .
- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C5020-2	\bar{V}	Ground

Is the voltage greater than 10 volts?

Yes GO to [E14](#)

No Repair the circuit.

E14 CHECK THE ILLUMINATION GROUND CIRCUIT FOR AN OPEN

- Measure:
Exterior mirror telescope switch

PINPOINT TEST F : THE RH (RIGHT-HAND) FRONT DOOR LOCK AND/OR WINDOW CONTROL SWITCH ILLUMINATION IS INOPERATIVE OR ALWAYS ON (WITH ONE-TOUCH UP AND DOWN FRONT WINDOWS)

Refer to Wiring Diagrams Cell 100for schematic and connector information.

Normal Operation and Fault Conditions REFER to: [Instrument Panel and Interior Switches Illumination - System Operation and Component Description](#)

(413-00 Instrument Panel and Interior Switches Illumination, Description and Operation).

Possible Sources

- Communication network concern
- Wiring, terminals or connectors
- RH (right-hand) front door lock control switch
- RH (right-hand) front door window control switch
- PDM (passenger door module)

F1 PERFORM A NETWORK TEST

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

Does the PDM (passenger door module) pass the network test?

Yes	GO to F2
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No	DIAGNOSE a concern with the network. 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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F2 VERIFY THE FUNCTIONALITY OF THE RH (RIGHT-HAND) FRONT DOOR LOCK AND POWER WINDOW CONTROL SWITCHES


- Ignition ON.
- Actuate the door locks and the RH (right-hand) front power window from the RH (right-hand) front door switches.

Do the door locks and RH (right-hand) front window operate correctly?

Yes	If the switch illumination is always on, GO to F3 If the door lock and window control switch illumination is inoperative, GO to F6 If the door lock switch illumination is inoperative, GO to F12 If the window control switch illumination is inoperative, GO to F14
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F5 CHECK THE DOOR LOCK SWITCH FOR AN INTERNAL SHORT

- Ignition OFF.
- Disconnect RH (right-hand) front door lock control switch C605 .
- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C605-4		Ground


Is any voltage present?

Yes	REPAIR the affected circuit.
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No	For a door lock control switch concern, INSTALL a new RHF (right-hand front) door lock control switch. REFER to: Front Door Lock Control Switch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).
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F6 CHECK THE PDM (PASSENGER DOOR MODULE) ILLUMINATION CIRCUIT FOR VOLTAGE

- Ignition OFF.
- Disconnect RH (right-hand) front window control switch C604 .
- Disconnect RH (right-hand) front door lock control switch C605 .
- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C604-4		Ground

Is the voltage greater than 11 volts?

C604-6	Ω	C652A-17
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RH (right-hand) front door lock control switch

Positive Lead	Measurement / Action	Negative Lead
C605-2	Ω	C652B-16

Is the resistance less than 3 ohms?

Yes	GO to F16
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No	REPAIR the circuit.
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F9 CHECK THE PDM (PASSENGER DOOR MODULE) ILLUMINATION CIRCUIT FOR AN OPEN

Sample

F12 CHECK THE DOOR LOCK CONTROL SWITCH ILLUMINATION CIRCUIT FOR VOLTAGE

- Ignition OFF.
- Disconnect RH (right-hand) front door lock control switch C605 .
- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C605-4		Ground


Is the voltage greater than 10 volts?

Yes	GO to F13
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No	Repair the circuit.
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F13 CHECK THE ILLUMINATION GROUND CIRCUIT FOR AN OPEN

- Measure:
RH (right-hand) front door lock control switch

Positive Lead	Measurement / Action	Negative Lead
C605-4		C605-2

Is the voltage greater than 10 volts?

Yes	INSTALL a new door lock control switch. REFER to: Front Door Lock Control Switch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).
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(501-11 Glass, Frames and Mechanisms, Removal and Installation).

No Repair the circuit.

F16 CHECK FOR CORRECT PDM (PASSENGER DOOR MODULE) OPERATION

- Disconnect: and inspect all PDM (passenger door module) 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 PDM (passenger door module) and all previously disconnected illumination system connectors. Make sure all connectors seat and latch 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 PDM (passenger door module) .
REFER to: [Passenger Door Module \(PDM\)](#)
(419-10 Multifunction Electronic Modules, Removal and Installation).

No The system is operating correctly at this time. The concern may have been caused by module connection concerns. ADDRESS the root cause of any connector or pin issues.

PINPOINT TEST G : STEERING WHEEL SWITCH(ES) ILLUMINATION IS INOPERATIVE OR ALWAYS ON

Refer to Wiring Diagrams Cell 71 for schematic and connector information.

Normal Operation and Fault Conditions REFER to: [Instrument Panel and Interior Switches Illumination - System Operation and Component Description](#)

(413-00 Instrument Panel and Interior Switches Illumination, Description and Operation).

Possible Sources

For vehicles with adaptive steering,
REFER to: [Horn - Vehicles With: Active Steering](#)
(413-06 Horn, Diagnosis and Testing).

G3 CHECK FOR ILLUMINATION VOLTAGE AT THE SCCM (STEERING COLUMN CONTROL MODULE)

- Ignition OFF.
- Place the headlamp switch in the OFF position.
- Depower the SRS (supplemental restraint system) .
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Remove the driver airbag.
REFER to: [Driver Airbag - Vehicles Without: Adaptive Steering](#)(501-20B Supplemental Restraint System, Removal and Installation).
- Disconnect SCCM (steering column control module) C226A .
- Place a light source over the ambient light sensor so the illumination can reach maximum intensity.
- Headlamp switch in the PARKING LAMPS or HEADLAMPS position.
- Ignition ON.
- Press the illumination dim up switch until full illumination intensity is reached.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C226A-7	\overline{V}	Ground

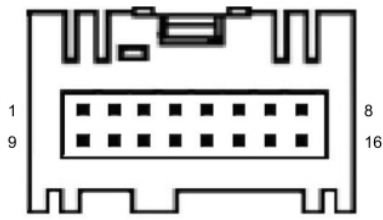
Is the voltage greater than 11 volts?

Yes	GO to G4
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No	REPAIR the circuit
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G4 CHECK FOR ILLUMINATION VOLTAGE TO THE STEERING WHEEL HARNESS

- Ignition OFF.
- Connect SCCM (steering column control module) C226A .



E155137

C218B pin 15 (component side)

Ω



E253175

C218D pin 9 (component side)

Is the resistance less than 3 ohms?

<p>Yes</p>	<p>INSTALL a new SCCM (steering column control module) . REFER to: Steering Column Control Module (SCCM) (211-05 Steering Wheel and Column Electrical Components, Removal and Installation).</p>
<p>No</p>	<p>INSTALL a new clockspring. REFER to: Clockspring - Vehicles Without: Adaptive Steering (501-20B Supplemental Restraint System, Removal and Installation).</p>

G6 CHECK FOR ILLUMINATION VOLTAGE AT THE CLOCKSPRING

- Ignition OFF.
- Place the headlamp switch in the OFF position.
- Depower the SRS (supplemental restraint system) .
 REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Remove the driver airbag.
 REFER to: [Driver Airbag - Vehicles With: Adaptive Steering](#)(501-20B Supplemental Restraint System, Removal and Installation).
- Disconnect Clockspring C218C .
- Place a light source over the ambient light sensor so the illumination can reach maximum intensity.
- Headlamp switch in the PARKING LAMPS or HEADLAMPS position.
- Ignition ON.
- Press the illumination dim up switch until full illumination intensity is reached.
- Measure: