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2013 FORD Mustang Shelby GT500 OEM Service and Repair Workshop Manual

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Universal Serial Bus (USB) Hub

415-00 Information and Entertainment System - General Information	2022 F-150
Removal and Installation	Procedure revision date: 09/18/2020

Universal Serial Bus (USB) Hub

Removal

NOTE

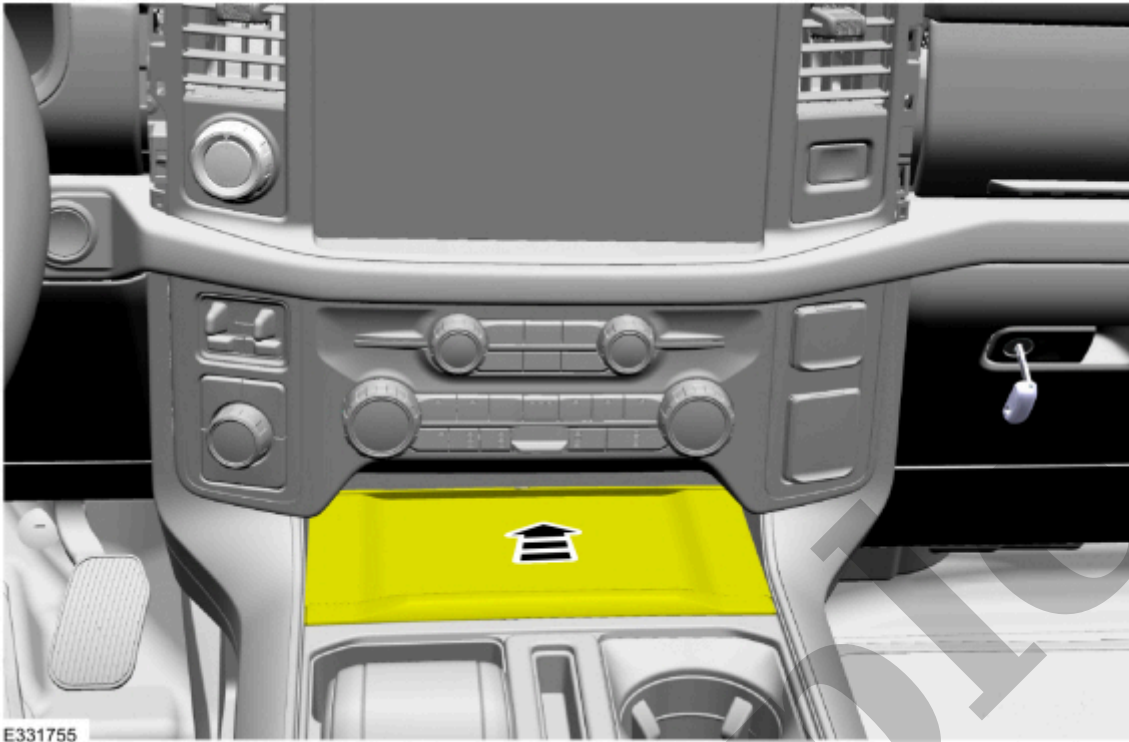
Removal steps in this procedure may contain installation details.

Vehicles without a floor console

1. Release the tab and position the USB (universal serial bus) hub forward.

Use the General Equipment: Interior Trim Remover

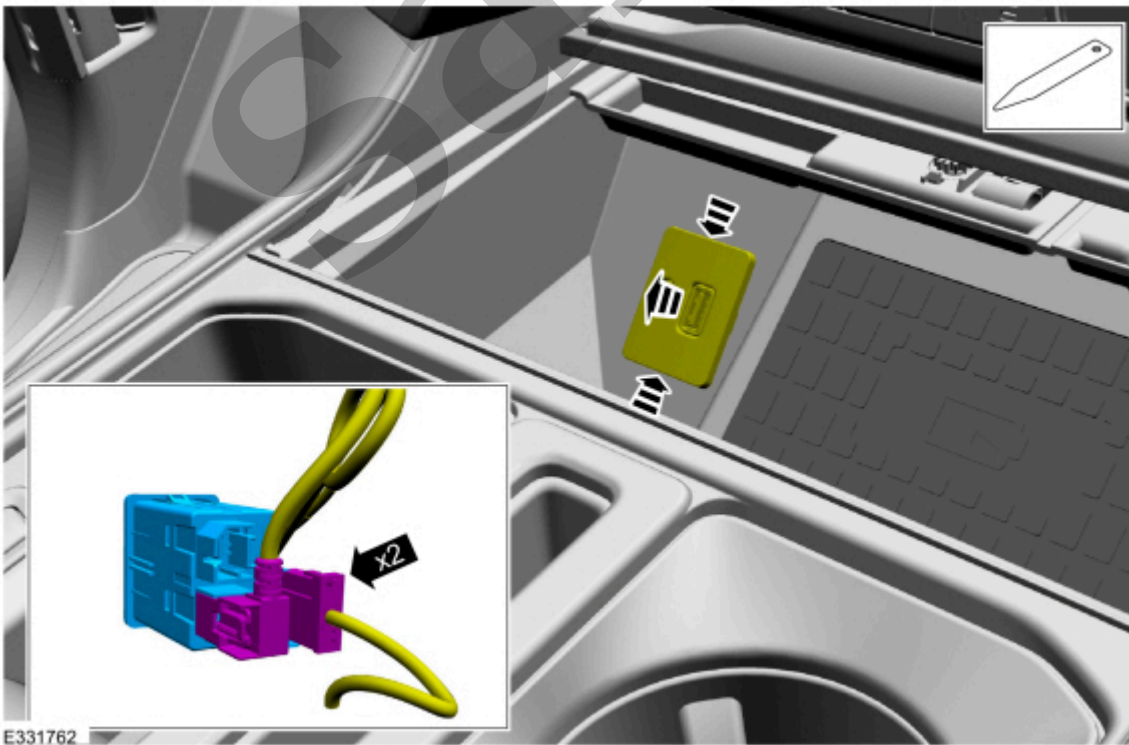
3. Open the media bin.



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

4. Release the tabs and remove the USB (universal serial bus) hub.

- Disconnect the electrical connectors.



Voice Microphone

415-00 Information and Entertainment System - General Information	2022 F-150
Removal and Installation	Procedure revision date: 09/18/2020

Voice Microphone

Removal

NOTE

Removal steps in this procedure may contain installation details.

NOTE

Super crew headliner shown, regular cab and supercab are similar.

1. Lower the headliner.

Refer to: [Headliner - Lowering - Regular Cab](#)(501-05 Interior Trim and Ornamentation, Removal and Installation).

Refer to: [Headliner - Lowering - SuperCab](#)(501-05 Interior Trim and Ornamentation, Removal and Installation).

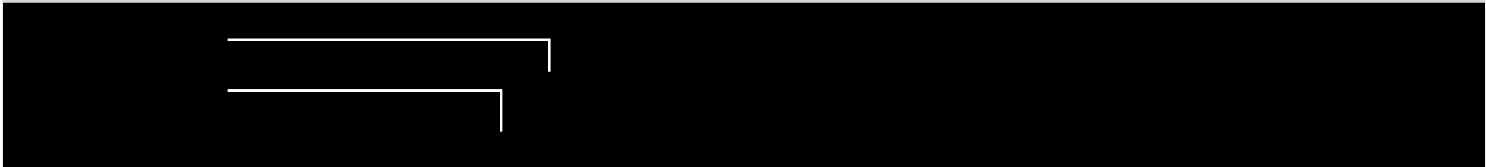
Refer to: [Headliner - Lowering - SuperCrew](#)(501-05 Interior Trim and Ornamentation, Removal and Installation).

2. Disconnect the electrical connector.

1. To install, reverse the removal procedure.

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Sample



Horn - Overview

<i>413-06 Horn</i>	<i>2022 F-150</i>
<i>Description and Operation</i>	<i>Procedure revision date: 05/28/2015</i>

Horn - Overview

Overview

The BCM (body control module) controls horn output by energizing the horn relay and sounding the horn.

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Sample

1	Horn Switch
2	Horn Relay
3	Horn(s)
4	BCM (body control module)
5	Clockspring
6	SCCM (steering column control module)

Horn Operation

The horn switch consists of 2 sets of contacts separated by springs. The lower set is connected to ground and the upper set is connected to the horn signal circuit. When the driver airbag module is pressed, it pushes down on the upper set of contacts, collapsing the springs and allowing the contacts to touch. When the contacts touch, it completes the circuit and provides the ground signal which is routed through the clockspring, SCCM (steering column control module) and then to the BCM (body control module) . The BCM (body control module) then energizes the non-servicable horn relay located in the BCMC (body control module C) . When energized, the horn relay provides voltage to the horn, enabling the horn to sound.

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Item	Description
1	Horn Switch
2	Horn Relay
3	Horn(s)
4	BCM (body control module)
5	Clockspring

Horn Operation

The horn switch uses 2 sets of contacts separated by springs. The lower set is connected to ground and the upper set is connected to the horn signal circuit. When the driver airbag is pressed, it pushes down on the upper set of contacts, collapsing the springs and allowing the contacts to touch. When the contacts touch, it completes the circuit and provides a ground signal through the clockspring to the BCM (body control module) horn input. The BCM (body control module) then energizes the non-servicable horn relay located in the BCM (body control module C) . When energized, the horn relay provides voltage to the horn, enabling the horn to sound.

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Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices.

REFER to: [Diagnostic Methods](#)

(100-00 General Information, Description and Operation).

Global Customer Symptom Code Chart

Customer Symptom	Action
Safe & Secure > Horn > Performance > Inoperative	GO to Pinpoint Test A

Symptom Chart(s)

Symptom Chart: Horn

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices.

REFER to: [Diagnostic Methods](#)

(100-00 General Information, Description and Operation).

Symptom Chart

Condition	Actions
The horn is inoperative	<ul style="list-style-type: none">GO to Pinpoint Test A
The horn is always on	<ul style="list-style-type: none">GO to Pinpoint Test B

Pinpoint Tests

PINPOINT TEST A : THE HORN IS INOPERATIVE

Refer to Wiring Diagrams Cell 44 for schematic and connector information.

Normal Operation and Fault Conditions REFER to: [Horn - System Operation and Component Description](#) (413-06 Horn, Description and Operation).

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
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No	GO to A2
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A2 CHECK FOR BCM (BODY CONTROL MODULE) DTC (DIAGNOSTIC TROUBLE CODE) B1C55:12, OR B1C55:14

- Ignition ON.
- Using a diagnostic scan tool, carry out the BCM (body control module) self-test.
- Using a diagnostic scan tool, carry out the SCCM (steering column control module) self-test.

Is DTC (diagnostic trouble code) B1C55:12 or B1C55:14 present?

Yes	For DTC (diagnostic trouble code) B1C55:12, GO to A3 For DTC (diagnostic trouble code) B1C55:14, GO to A5
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No	GO to A8
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A3 CHECK THE BCMC (BODY CONTROL MODULE C) HORN RELAY CONTROL CIRCUIT FOR A SHORT TO VOLTAGE