



TECHNICAL SERVICE BULLETIN

BlueCruise - Hands-Free Driving Mode No Longer Available

22-2105

18 March
2022

Model:

Ford 2021-2022 F-150
2021-2022 Mustang Mach-E

Issue: Some 2021-2022 F-150/Mach-E vehicles equipped with BlueCruise may experience loss of BlueCruise hands-free driving mode availability. This may be due to an expired BlueCruise map file in the gateway module (GWM). To correct the condition, follow the Service Procedure to update the GWM.

Action: Follow the Service Procedure steps to correct the condition on vehicles that meet all of the following criteria:

- One of the following vehicles:
 - 2021-2022 F-150
 - 2021-2022 Mustang Mach-E
- BlueCruise hands-free driving mode is no longer available

Warranty Status: Eligible under provisions of New Vehicle Limited Warranty (NVLW)/Service Part Warranty (SPW)/Special Service Part (SSP)/Extended Service Plan (ESP) coverage. Limits/policies/prior approvals are not altered by a TSB. NVLW/SPW/SSP/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool.

Labor Times

Description	Operation No.	Time
2021-2022 F-150/Mach-E Check For Available Software Updates For GWM And Any Additional Modules Required By The Software Updates Follow The Service Procedure Steps To Correct The Condition On Vehicles (Do Not Use With Any Other Labor Operations)	MT222105	Actual Time

Repair/Claim Coding

Causal Part:	14G650
Condition Code:	04

Service Procedure

NOTE: This procedure will not enable hands-free driving mode on vehicles that did not previously have the capability.

1. On the center display screen, navigate to Settings > About SYNC > Hands-Free Driving Mode available through DD-MM-YYYY. Is the expiration date in the past or is it blank?

NOTE: The date format is DD-MM-YYYY. Example: 02-04-2022 is for 02-Apr-2022.

- (1). Yes - proceed to Step 2.
 - (2). No - this article does not apply. Refer to Workshop Manual, Section 419-03B for normal diagnostics.
2. Perform the Module Software Updating Procedure outlined below for the GWM.
 3. Did the hands-free driving mode expiration date change to a future date?
 - (1). Yes - repair is complete.
 - (2). No - proceed to Step 4.

4. Connect a battery charger to the vehicle's 12v battery. Set the charger to maintain the battery at 12.6-13.6 volts.
5. Close all the doors on the vehicle. If a door must be left open during the service procedure, mechanically latch the door latch to simulate a closed door.
6. Perform the Module Software Updating Procedure outlined below for the following modules: GWM, telematic control unit (TCU), accessory protocol interface module (APIM) and/or instrument panel cluster (IPC). Perform a network test after each software update using the latest software level of the Ford Diagnosis and Repair System (FDRS) scan tool. This refreshes the list of modules that have available software updates based on current module software levels. Continue performing software updates to the GWM, TCU, and/or APIM until all available software updates for those modules are complete.
7. Confirm that the hands-free driving mode expiration date is updated to a future date.

Module Software Updating Procedure

NOTE: The following instructions apply when performing a software update on any of the following modules: GWM, TCU, APIM and IPC.

NOTE: A blank 64GB or larger universal serial bus (USB) flash drive is required, and a USB 3.0 USB flash drive is recommended for fastest software installation. Make sure the USB flash drive being used is formatted as exFAT file system. To confirm the USB flash drive is formatted as exFAT, hold down the Windows icon keyboard key and press the E keyboard key. Right click on the USB flash drive, then select Properties. If File System under the General tab is not exFAT, the drive must be formatted. To format the USB flash drive, right click on the USB flash drive, select Format, select exFAT for the File System, and select Default Allocation Size for the Allocation Unit Size. De-selecting Quick Format is not necessary and results in a more lengthy operation.

1. Using the FDRS, begin module programming by selecting the SW Updates tab then download and run the application for the desired module. Follow all on-screen instructions carefully.
2. When prompted, connect the USB flash drive to the FDRS.

NOTE: It may take up to 5 minutes for the vehicle to recognize the USB flash drive.

3. When prompted by the FDRS, safely remove/eject the USB flash drive from the diagnostic scan tool and connect it to the USB hub to install the software into the module. When the USB software update begins the SYNC screen displays a message stating Do Not Remove USB. The update starts automatically, and may take 10 minutes or longer to complete. If the message stating Do Not Remove USB does not display on the SYNC screen within 5 minutes of the USB drive being connected to the vehicle's USB hub select Did The Update Install Successfully > No on the FDRS and follow the on-screen instructions to either attempt USB programming again or perform controller area network (CAN) programming for the module.
4. When the pop-up stating Restart Required appears on the SYNC screen, turn the ignition off and open the driver's door for 10 minutes then close the door and restart the engine. The update is still in process at this time.
5. Once the pop-up stating Update Successful appears in the SYNC screen, select Close, remove the USB flash drive from the USB hub and connect it to the FDRS, and select Yes on FDRS indicating the update installed successfully. This initiates the remaining automated configuration steps and reports the module assembly, vehicle interface processor (VIP), calibration, customer interface processor (CIP), and application software levels to the Ford online database. Failure to follow this step results in an inaccurate database as well as omitted, improperly installed, or improperly configured applications (features) such as navigation (if equipped). It is normal for the module to reset during this step.

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