



TECHNICAL SERVICE BULLETIN SYNC 3 - Various SYNC Symptoms

24-2182

05 June 2024

This bulletin supersedes 23-2307. Reason for update: Service Procedure and vehicle model years affected.

Model:

Ford
2021-2024 Bronco Sport
2020-2022 EcoSport
2019-2020 Edge
2020-2022 Escape
2020-2021 Expedition
2020-2024 Explorer
2019-2020 F-150
2019-2020 Fusion
2022-2024 Maverick
2019-2023 Mustang
2019-2023 Ranger
2020-2022 F-Super Duty
2020-2024 Transit
2019-2021 Transit Connect/Tourneo Connect
Lincoln
2020-2024 Aviator
2019-2020 Continental
2020-2022 Corsair
2019-2020 MKZ
2019-2020 Nautilus
2020-2021 Navigator

Issue: Some 2019-2020 Edge/F-150/Fusion/Continental/MKZ/Nautilus, 2019-2021 Transit Connect, 2019-2023 Mustang, 2019-2023 Ranger, 2020-2021 Expedition/Navigator, 2020-2022 Escape/Corsair/Super Duty/EcoSport, 2020-2024 Explorer/Aviator/Transit, 2021-2024 Bronco Sport, 2022-2024 Maverick vehicles with SYNC 3 may experience various SYNC performance related concerns including but not limited to:

- Programming Failed via USB
- Repeat FAIL - 8033 errors
- Repeat "MEM_ERR", "PKG_ERR", "LIST_ERR", "SIGN_ERR" or "INST_ERR" errors
- Repeat "Check Valid App Fail", "Fails to download to USB", "Configuration Failed" followed by inoperative display (2016 vehicles only)
- Loss of audible voice prompts
- Slow/lagging system response
- Loss of Bluetooth pairing
- Loss of navigation destinations
- Slow/lag operation

- Sirius audio not functioning properly after a key cycle with active subscription
- Presets not responding or indicating properly
- Intermittent audio echo/robotic voice heard during a Bluetooth phone call
- Wi-Fi connection message pop-up every key cycle
- Frozen unresponsive touchscreen
- Solid blue screen when moving forward at speeds above 16 km/h (10 mph) (2019 vehicles only)
- Rear parking aid camera remains on the screen at speeds below 16 km/h (10 mph) (2019 vehicles only)
- Inoperative infotainment applications
- Poor/no AppLink function
- Apple CarPlay not launching on connection or a black screen when connected
- Voice prompts that skip or have short pauses while directions are being provided
- Sirius Travel Link™ not working properly with active subscription
- Remote start not able to be scheduled from FordPass or Lincoln Way (2020 vehicles only)
- System states In Michigan when trying to select a Point Of Interest (POI) on the navigation system
- System scrolls through FM presets on screen when listening to Bluetooth or when on Android Auto/CarPlay
- Climate control features missing after previous update
- Temperature not displayed in pop up screen when increasing or decreasing temperature (2020-2021 Aviator/Navigator only)
- Center display screen flicker (rear camera works properly) (2020-2022 Explorer/Aviator and 2020-2021 Navigator)

This may be due to the SYNC Software. To correct the condition, follow the Service Procedure to update the accessory protocol interface module (APIM) software.

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

- One of the following vehicle lines:
 - 2019-2020 Edge/F-150/Fusion/Continental/MKZ/Nautilus
 - 2019-2021 Transit Connect
 - 2019-2023 Mustang
 - 2019-2023 Ranger
 - 2020-2021 Expedition/Navigator
 - 2020-2022 Escape/Corsair/Super Duty/EcoSport
 - 2020-2024 Explorer/Aviator/Transit
 - 2021-2024 Bronco Sport
 - 2022-2024 Maverick
- Equipped with SYNC 3
- At least one of the following infotainment concerns:
 - Programming Failed via USB
 - Repeat FAIL - 8033 errors
 - Repeat "MEM_ERR", "PKG_ERR", "LIST_ERR", "SIGN_ERR" or "INST_ERR" errors
 - Repeat "Check Valid App Fail", "Fails to download to USB", "Configuration Failed" followed by inoperative display (2016 vehicles only)
 - Loss of audible voice prompts
 - Slow/lagging system response
 - Loss of Bluetooth pairing
 - Loss of navigation destinations
 - Slow/lag operation
 - Sirius audio not functioning properly after a key cycle with active subscription
 - Presets not responding or indicating properly
 - Intermittent audio echo/robotic voice heard during a Bluetooth phone call
 - Wi-Fi connection message pop-up every key cycle

- Frozen unresponsive touchscreen
- Solid blue screen when moving forward at speeds above 16 km/h (10 mph) (2019 vehicles only)
- Rear parking aid camera remains on the screen at speeds below 16 km/h (10 mph) (2019 vehicles only)
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- Poor/no AppLink function
- Apple CarPlay not launching on connection or a black screen when connected
- Voice prompts that skip or have short pauses while directions are being provided
- Sirius Travel Link™ not working properly with active subscription
- Remote start not able to be scheduled from FordPass or Lincoln Way (2020 vehicles only)
- System states In Michigan when trying to select a point of interest (POI) on the navigation system
- System scrolls through FM presets on screen when listening to Bluetooth or when on Android Auto/CarPlay
- Climate control features missing after previous update
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- Center display screen flicker (2020-2022 Explorer/Aviator and 2020-2021 Navigator)

Special Tool(s)

SYNC 3 Universal Thumb Drive

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

Labor Times

Description	Operation No.	Time
Reprogram The APIM Using The SYNC 3 Universal Thumb Drive (Do Not Use With Any Other Labor Operations)	242182A	0.3 Hrs.

Repair/Claim Coding

Causal Part:	14G371
Condition Code:	04

Service Instruction

NOTE: For vehicles that are not currently at the dealership, the customer can also update their vehicle's SYNC 3 software via Wi-Fi or follow the instructions on www.owner.ford.com or www.owner.lincoln.com to update the SYNC 3 software.

1. Verify that the SYNC 3 universal thumb drive is titled SG3v202403 or later (later software levels will have a higher numerical value). Is the SYNC 3 universal thumb drive title SG3v202403 or later?

(1). Yes - proceed to Step 2.

(2). No - download the latest version of the SYNC 3 Universal USB Updater Application (1.0.3.1) under the Service Tips section of PTS using at least a 64GB USB 3.2 GEN 2 flash drive or higher. The USB drive must be formatted to exFAT. Review the instructions and use Scan for Updates and Update USB. Proceed to Step 2.

- If needed, this is a one-time upload to the thumb drive. Instructions can be found on PTS under Service Tips. Downloading the files to laptop and updating the thumb drive could take up to 2 1/2 hours depending on internet speed. Once the thumb drive is updated, it can be used repeatedly to update all vehicles in this article. The thumb drive must be synced with the Updater Application every 30 days in order to retain usage permissions.

2. Disconnect all customer connected USB items from all media hub locations in the vehicle.

3. Start the vehicle.

4. Insert the SYNC 3 universal thumb drive into the USB port on the media hub.

5. The module automatically updates with no user input required.

- (1). Modules already at the latest software level indicate this after approximately 30 seconds.
 - (2). Module programming for a non-updated module does not need to be monitored and can take approximately 20-30 minutes.
 - (3). Once the reprogramming has completed, the screen displays a message indicating the module is up to date.
- 6.** Remove the SYNC 3 universal thumb drive when complete. The screen returns to the SYNC 3 home screen. Reconnect any of the customer USB items. No vehicle or system restarts are required.

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NOTE: The information in Technical Service Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers". Do not assume that a condition described affects your car or truck. Contact a Ford or Lincoln dealership to determine whether the Bulletin applies to your vehicle. Warranty Policy and Extended Service Plan documentation determine Warranty and/or Extended Service Plan coverage unless stated otherwise in the TSB article. The information in this Technical Service Bulletin (TSB) was current at the time of printing. Ford Motor Company reserves the right to supersede this information with updates. The most recent information is available through Ford Motor Company's on-line technical resources.