

CERTAIN 2024-2025 MODEL YEAR F-150 LIGHTNING, 2025-2026 MUSTANG MACH-E, AND 2025-2026 MAVERICK HYBRID VEHICLES — INTEGRATED PARK MODULE SOFTWARE UPDATE

NEW ! SERVICE PROCEDURE

IMPORTANT! The Service Technician Specialty Training (STST) Competency 10 certification requirement in the U.S. market only will be enforced starting with repair orders opened on or after August 31, 2024. Field Service Action (FSA) repairs will reject and the claim will not be paid if the repairing technician is not certified in STST Competency 10 FSA. See Electronic Field Communication (EFC)15936 for more details.

Module Programming

NOTE: Program appropriate vehicle modules before performing diagnostics and clear all Diagnostic Trouble Codes (DTCs) after programming. For DTCs generated after programming, follow normal diagnostic service procedures.

1. Connect a battery charger to the 12-volt battery.

- Use of a heavy-duty charger is recommended to maintain proper battery voltage during this procedure.

NOTE: Verify the negative cable of the charger is installed on a chassis or engine ground and not the 12-volt battery negative terminal to prevent the battery saver mode from activating on the vehicle.

NOTE: If the diagnostic software does not load or if the vehicle cannot be identified properly, make sure there is a good internet connection and the Vehicle Communication Module (VCM) is properly connected to the Data Link Connector (DLC).

2. Log into Ford Diagnostic and Repair System (FDRS).

NOTE: Vehicle information is automatically retrieved by the diagnostic software and a Network Test is run. Vehicle identification data appears on the screen when this is complete.

3. Click **Read VIN from Vehicle** or manually enter the Vehicle Identification Number (VIN).

NOTE: Available modules are shown on the left hand (LH) side of the screen and available procedures are listed on the right hand (RH) side of the screen. Modules that are communicating are highlighted in green.

4. Select **Toolbox** tab.

5. From the list on the LH side of the screen, select the **SOBDMC**.

6. From the list on the RH side of the screen, select **SOBDMC - Secondary On-Board Diagnostic Control Module C (SOBDMC) Software Update**.



7. Click **RUN**. Follow all on-screen instructions carefully.

NOTE: After the programming of the SOBDMC, FDRS will automatically prompt you to update other necessary modules based on their current software levels and the vehicle's options. The list and order may vary, but the SOBDMC **MUST** be updated in order to complete the recall. Follow the on-screen instructions to complete the update(s).

- PCM – Powertrain Control Module
- ABS – Anti-Lock Brake System
- BECM – Battery Energy Control Module
- *SOBDM – Secondary On-Board Control Module*
- *SOBDMB – Secondary On-Board Control Module B*
- *GFM2 – Generic Function Module 2*

8. From the list on the RH side of the screen, select **Self-Test** and click **RUN**.

9. Click the **Run Selected Tests** button in the lower right.

10. Click the **Clear & Retest** button at the top of the screen to clear DTCs in all modules.

11. This FSA requires a Software Verification Approval Code after performing the software update. Please follow the instructions below to obtain the approval code. The claim will not be paid and the FSA will remain open if a Software Verification Approval Code is not provided. For more information, see EFC 16335.

12. Select the **SW Updates** tab (1). See Figure 1.

13. **Warranty Dealer Code** (2) - Change the displayed PA code as necessary. See Figure 1.

14. Select the **FSA** (3) from the drop-down menu. See Figure 1.

15. Select **Submit** (4). See Figure 1.

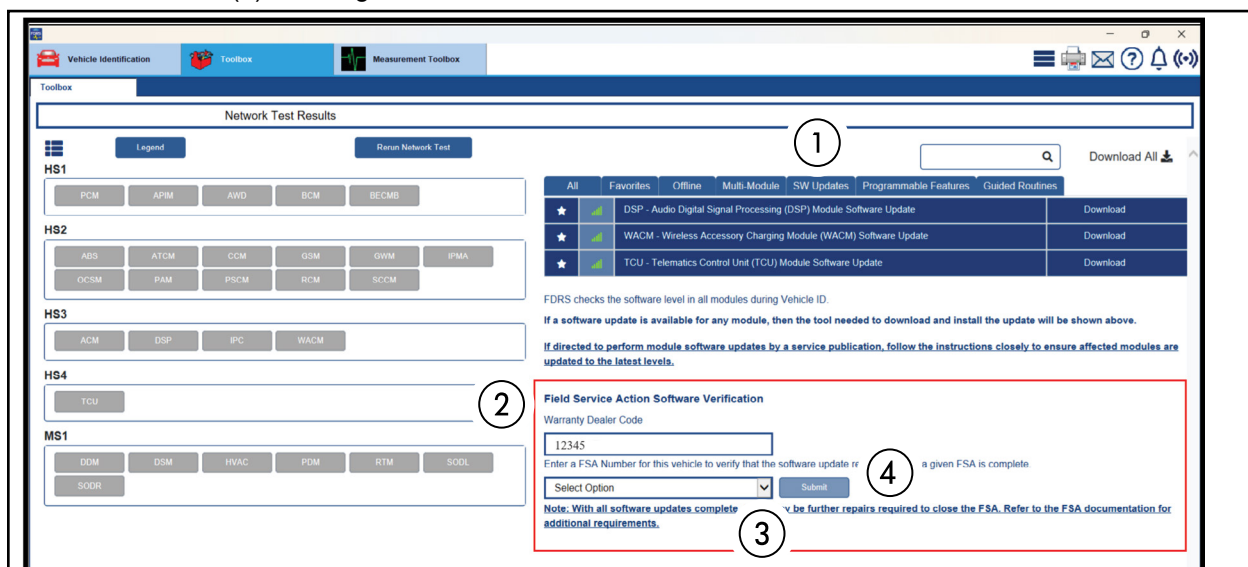


FIGURE 1



16. Does the FDRS Field Service Action Software Verification Status display a **Complete** status?
See Figure 2.

Yes - The FDRS Field Service Action Software Verification will provide an on-screen Software Verification approval code. Proceed to Step 17.

NOTE: The vehicle may be returned to the customer when the Software Verification Form provides a Complete status for ALL modules listed.

No - Proceed to Step 19.

FDRS checks the software level in all modules during Vehicle ID

If a software update is available for any module, then the tool needed to download and install the update will be shown above.

If directed to perform module software updates by a service publication, follow the instructions closely to ensure affected modules are updated to the latest levels.

Field Service Action Software Verification

Warranty Dealer Code

Enter a FSA Number for this vehicle to verify that the software update requirement for a given FSA is complete.

24524

FSA 24524 VIN 3FMCR9C68PRD00267

Software Update Status: **Complete**

Software Verification Code: **R921FUKJK9VPE**

Module Acronym	Software Update Complete
BCM	Yes
PCM	Yes

Note: With all software updates complete, there may be further repairs required to close the FSA. Refer to the FSA documentation for additional requirements.

FIGURE 2

17. Disconnect FDRS. Software Verification and Approval process complete.

18. Disconnect the battery charger from the 12-volt battery. This FSA is complete.



19. Does the FDRS Field Service Action Software Verification Status display a **Not Complete** status?
See Figure 3.

- Yes** - Proceed to Step 20.
- No** - Proceed to Step 21.

20. Have the module software updates in Steps 2-11 been reattempted?

- Yes** - Proceed to Step 21.
- No** - Repeat Steps 2-11.

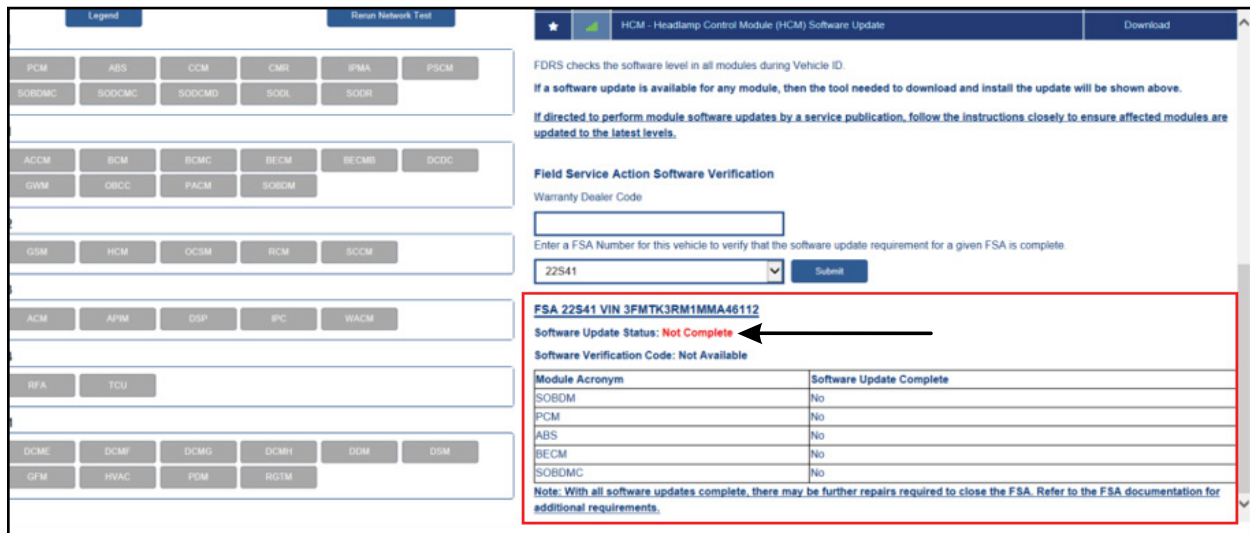


FIGURE 3

21. At this time, an error has occurred and the FSA information could not be retrieved. From PTS, contact the Ford Technical Support Team by submitting a **Technical Support Request (TSR)** by selecting the **FSA Assistance Group**.

NOTE: When submitting a **Technical Support Request (TSR)**, select **FSA Assistance Group** from the drop-down menu on the form. To expedite your Technical Service Request, please provide the FSA Assistance Group with the following information when submitting the TSR:

- What FSA is being attempted
- Specific error message(s) received when programming is attempted
- Battery State of Charge when programming was attempted
- Scan tool software level
- Any known aftermarket devices installed on the vehicle
- List in detail what diagnostic steps were already performed to try and diagnose why the module will not update to the correct level

22. Disconnect the battery charger from the 12-volt battery.



Important Information for Module Programming

NOTE: When programming a module, use the following basic checks to ensure programming completes without errors.

- Make sure the 12-volt battery is fully charged before carrying out the programming steps and connect FDRS/scan tool to a power source.

NOTE: A good internet connection is necessary to identify the vehicle and to load the diagnostic software.

- Inspect the Vehicle Communication Module II (VCM II)/Vehicle Communication Module 3 (VCM3) or the Vehicle Communication and Measurement Module (VCMM) and the cables for any damage. Make sure scan tool connections are not interrupted during programming.
- A hardwired connection is strongly recommended.
- Turn off all unnecessary accessories (radio, heated/cooled seats, headlamps, interior lamps, HVAC system, etc.) and close doors.
- Turn the accessories back on after programming has completed.
- Disconnect/depower any aftermarket accessories (remote start, alarm, power inverter, CB radio, etc.).
- Follow all scan tool on-screen instructions carefully.
- Disable FDRS/scan tool sleep mode, screensaver, hibernation modes.
- Create all sessions key on engine off (KOEO). Starting the vehicle before creating a session will cause errors within the programming inhale process.

Recovering a module when programming has resulted in a blank module

- a. Disconnect the VCM II/VCM3 or the VCMM from the data link connector (DLC) and your computer.
- b. After ten seconds, reconnect the VCM II/VCM3 or the VCMM to the DLC and the PC. Launch FDRS. The VCM II/VCM3 or the VCMM icon should turn green in the bottom right corner of the screen. If it does not, troubleshoot the FDRS to VCM connection.
- c. If you are using the same FDRS as the initial programming attempt, select the appropriate VIN from the Vehicle Identification menu. If you are using a different FDRS, select "Read VIN from Vehicle" and proceed through the Network Test.
- d. In the Toolbox menu, navigate to the failed module and Download/Run Programmable Module Installation (PMI). Follow the on-screen prompts. When asked if the original module is installed, select "No" and continue through the installation application.
- e. Once programming has completed, a screen may list additional steps required to complete the programming process. Make sure all applicable steps are followed in order.

