

CERTAIN 2023 MODEL YEAR F-150 AND F-150 LIGHTNING VEHICLES — HEATED STEERING WHEEL ACTIVATION

SERVICE PROCEDURE

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IMPORTANT NOTE: Federal law prohibits selling motor vehicle parts or components that are under safety, compliance, or emissions recall. Unless a part is requested to be returned to Ford, all parts replaced under this FSA must be scrapped in accordance with all applicable local, state and federal environmental protection and hazardous material regulations. Refer to the Parts Retention, Return, & Scrapping section of the FSA dealer bulletin for further information.

Vehicles with a 15" screen with Adaptive Steering

1. Replace the Steering Column Control Module (SCCM). Follow the Workshop Manual (WSM) procedures in Section 211-05.

NOTE: F-150 Lightning vehicles have a different lower instrument trim panel. See Figure 1.



FIGURE 1



2. Complete the check and adjustment of front toe. Follow WSM procedures in Section 204-00.

3. Connect a battery charger to the 12 Volt (V) battery.

NOTE: Verify the negative cable of the charger is installed on a chassis or engine ground and not the 12V 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).

4. 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.

5. 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.

6. Select **Toolbox** tab.

7. From the list on the LH side of the screen, select the **SCCM**.

8. From the list on the RH side of the screen, select **SCCM - Enable Heated Steering Wheel**

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

10. Verify that the soft button is available on the display screen. See Figure 2.

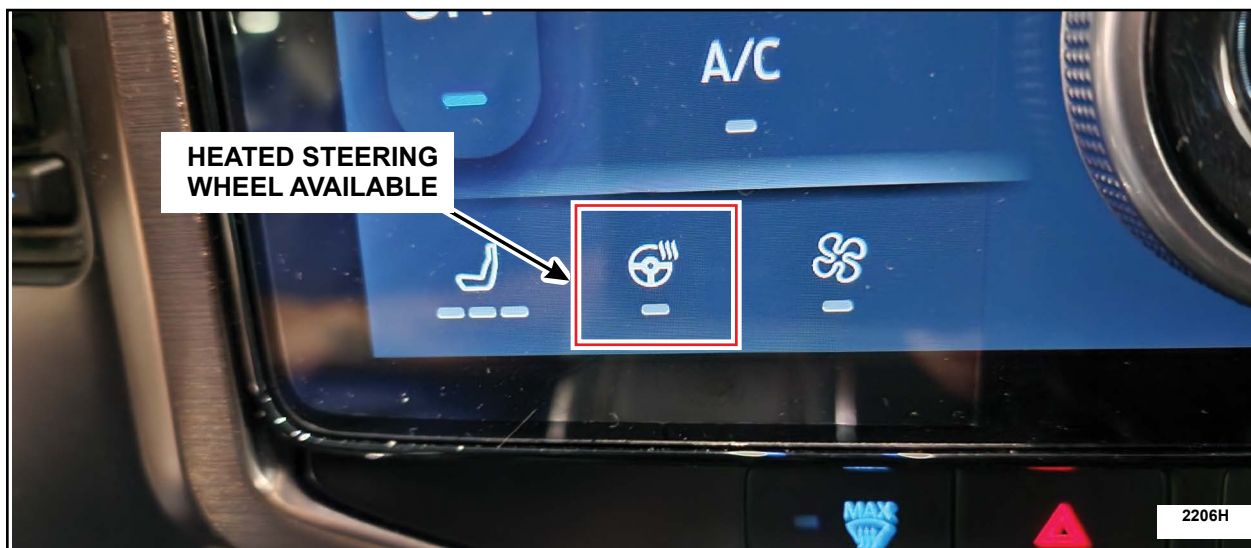


FIGURE 2



Vehicles with a 15" screen without Adaptive Steering

NOTE: Removal steps in this procedure may contain installation details.

NOTE: This step is only necessary when installing a new component.

NOTE: The Programmable Module Installation (PMI) process must begin with the current SCCM installed. If the current SCCM does not respond to the diagnostic scan tool, the tool may prompt for As-Built data as part of the repair.

1. Using a diagnostic scan tool, begin the PMI process for the SCCM following the on-screen instructions.
2. Remove the driver airbag. Follow WSM procedures in Section 501-20B.
3. Disconnect the steering wheel electrical connector(s). See Figure 3.

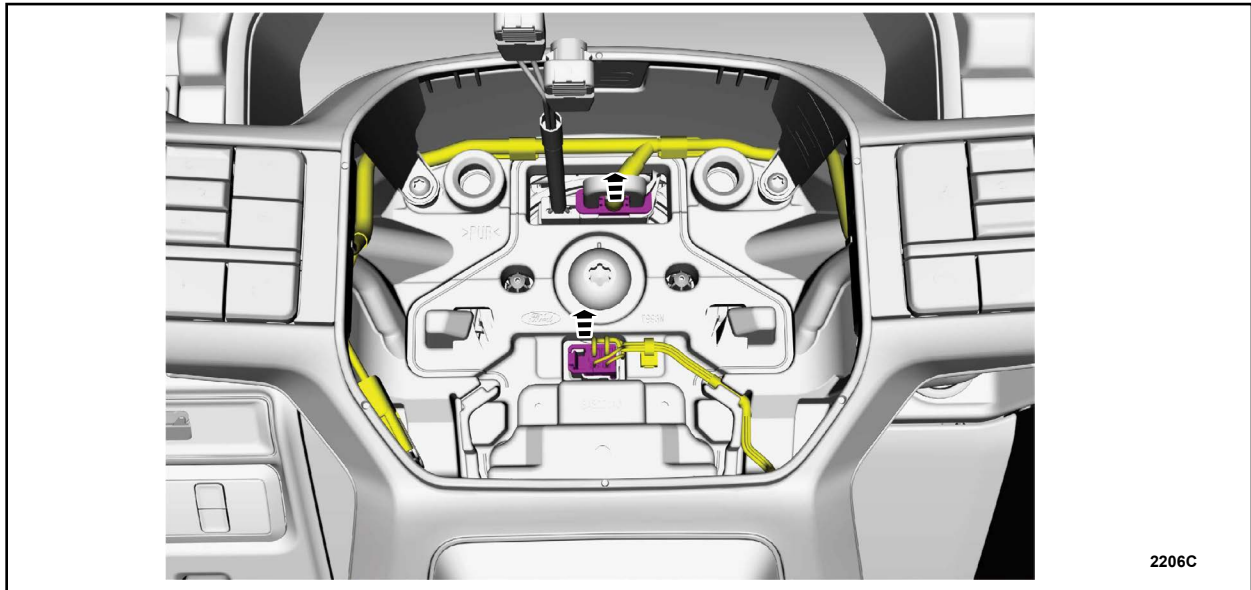


FIGURE 3



NOTE: Make sure the tick-mark on the end of the steering column shaft is on the top position.

4. Remove and discard the steering wheel bolt and remove the steering wheel. See Figure 4.
Torque: 46 lb.in (62.5 Nm)

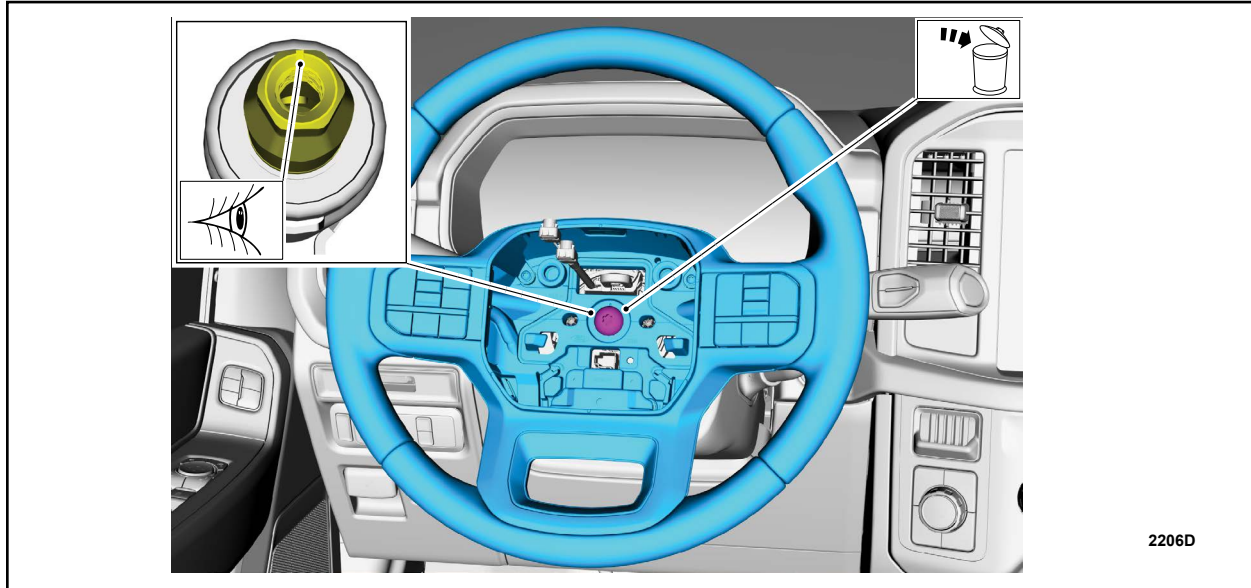


FIGURE 4

5. Remove the steering column shrouds. Follow WSM procedures in Section 501-05.

NOTE: F-150 Lightning vehicles have a different lower instrument trim panel. See Figure 5.



FIGURE 5



6. Disconnect the SCCM electrical connectors, unclip the pin type retainer and position the harness aside. See Figure 6.

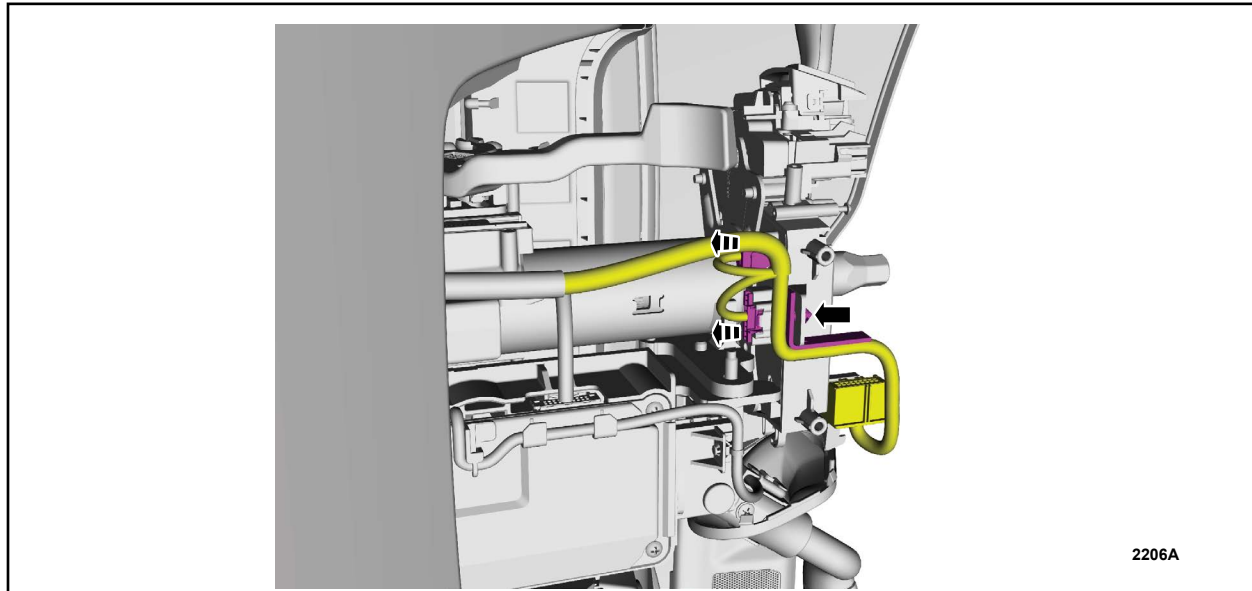


FIGURE 6

7. Remove the retainers and the SCCM. See Figure 7.
Torque: 28 lb.in (3.2 Nm)

NOTE: Clockspring has been removed for clarity. It is not necessary to remove the clockspring separately.

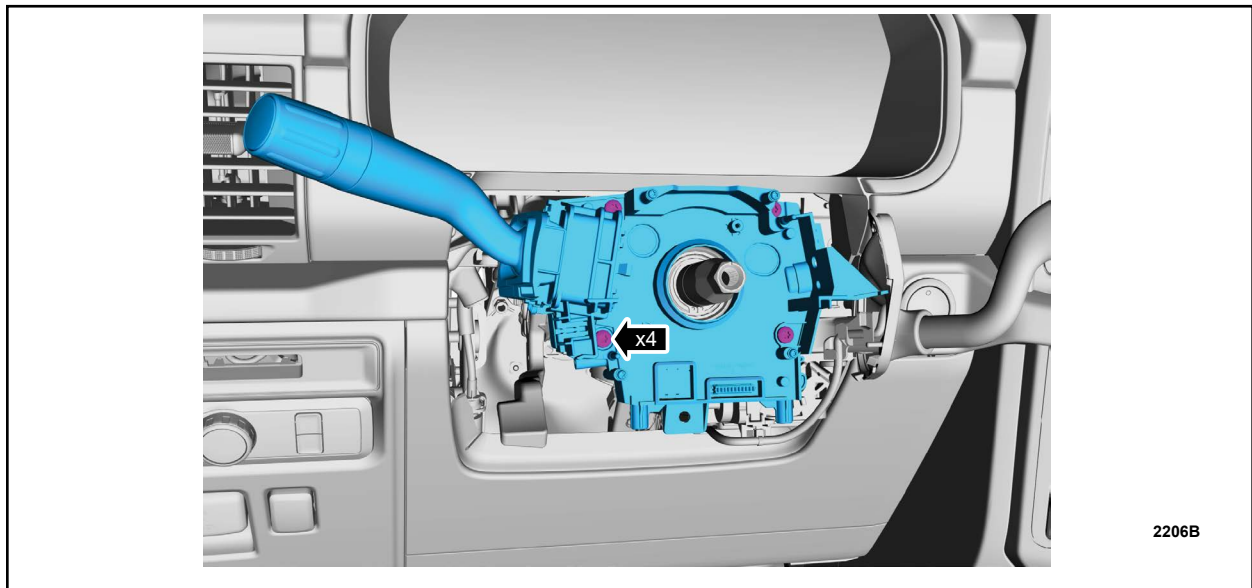


FIGURE 7



8. Install new SCCM. For installation reverse Steps 1-7.

9. Using a diagnostic scan tool, complete the PMI process for the SCCM following the on-screen instructions. 10. Connect a battery charger to the 12 Volt (V) battery.

NOTE: Verify the negative cable of the charger is installed on a chassis or engine ground and not the 12V 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).

11. 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.

12. 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.

13. Select **Toolbox** tab.

14. From the list on the LH side of the screen, select the **SCCM**.

15. From the list on the RH side of the screen, select **SCCM - Enable Heated Steering Wheel**

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

17. Verify that the soft button is available on the display screen. See Figure 8.

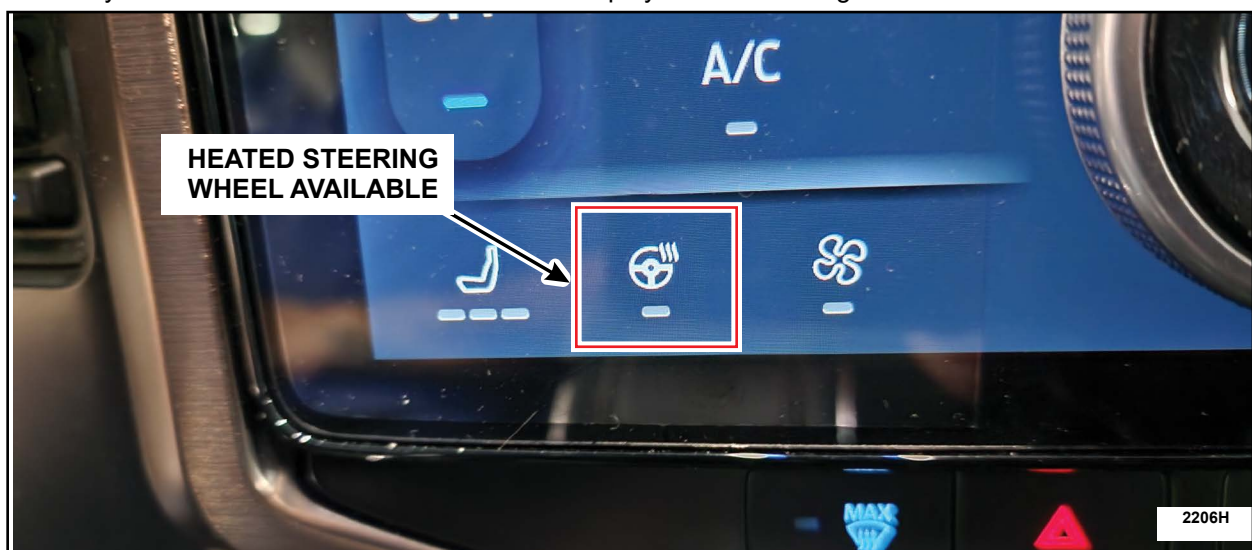


FIGURE 8



Vehicles with a 12" screen with Adaptive Steering

1. Replace the Steering Column Control Module (SCCM). Follow the WSM procedures in Section 211-05.
2. Complete the check and adjustment of front toe. Follow WSM procedures in Section 204-00.
3. Replace the Heating, Ventilation and Air Conditioning (HVAC) Control Module. Follow WSM procedures in Section 412-00.

NOTE: It is not necessary to perform the PMI procedure for the HVAC module.

NOTE: Use care in separating the HVAC module as it is secured with a clip. Press in on the clips to release. See Figure 9.

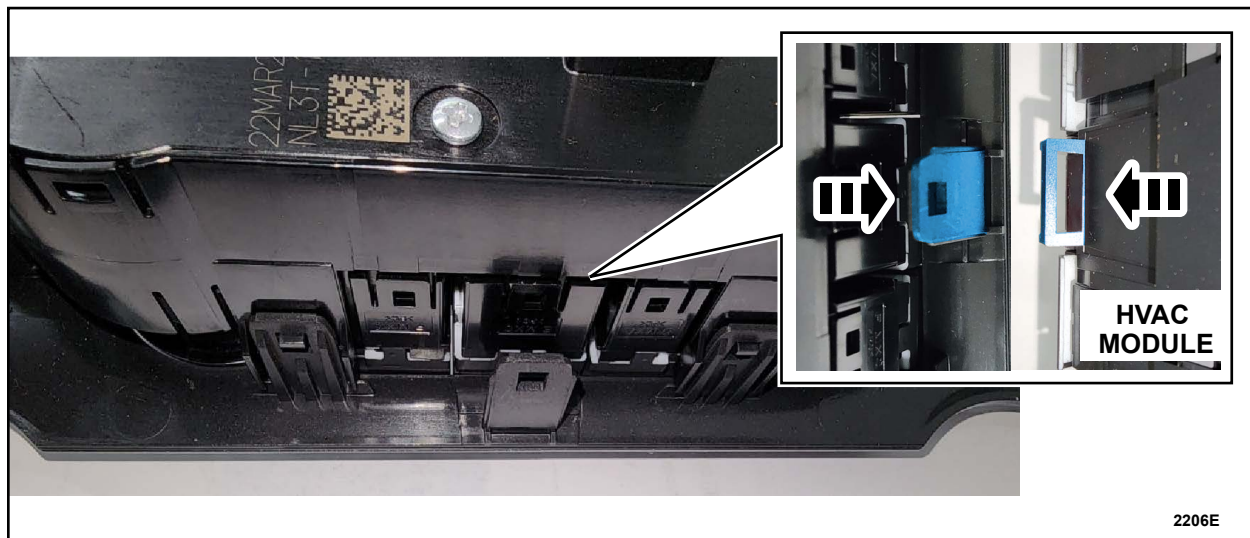


FIGURE 9



4. Connect a battery charger to the 12 Volt (V) battery.

NOTE: Verify the negative cable of the charger is installed on a chassis or engine ground and not the 12V 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).

5. 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.

6. 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.

7. Select **Toolbox** tab.

8. From the list on the LH side of the screen, select the **SCCM**.

9. From the list on the RH side of the screen, select **SCCM - Enable Heated Steering Wheel**

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

11. Start vehicle and verify that the heated steering wheel is functioning. See Figure 10.

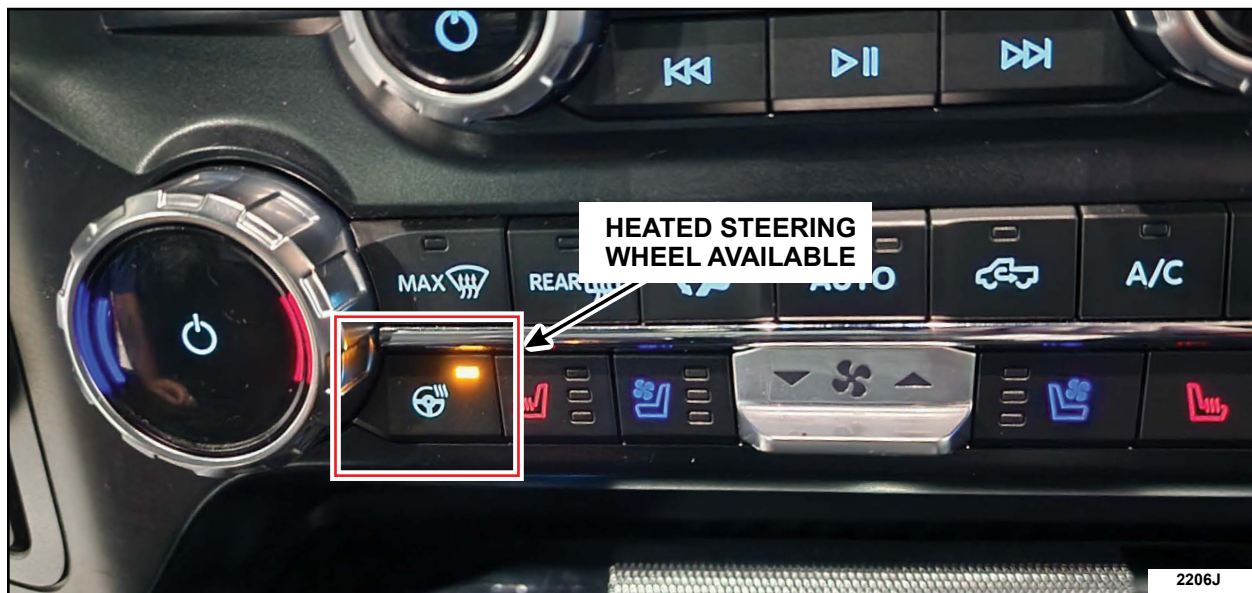


FIGURE 10



Vehicles with a 12" screen without Adaptive Steering

NOTE: Removal steps in this procedure may contain installation details.

NOTE: This step is only necessary when installing a new component.

NOTE: The Programmable Module Installation (PMI) process must begin with the current SCCM installed. If the current SCCM does not respond to the diagnostic scan tool, the tool may prompt for As-Built data as part of the repair.

1. Using a diagnostic scan tool, begin the PMI process for the SCCM following the on-screen instructions.
2. Remove the driver airbag. Follow WSM procedures in Section 501-20B.
3. Disconnect the steering wheel electrical connector(s) See Figure 11.

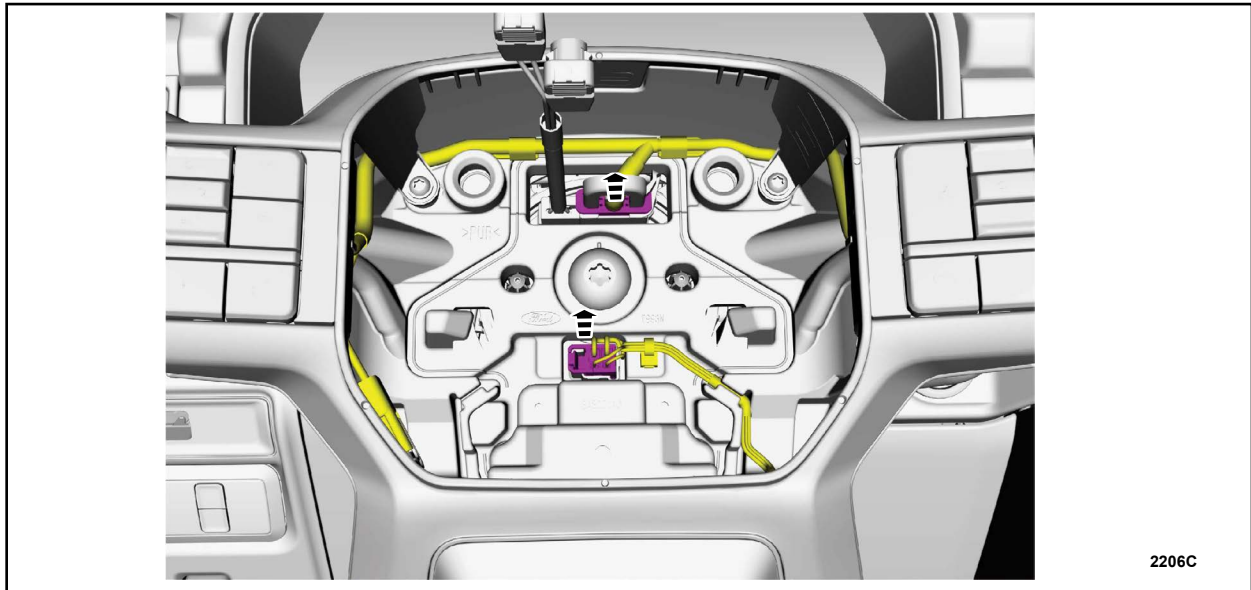


FIGURE 11



NOTE: Make sure the tick-mark on the end of the steering column shaft is on the top position.

4. Remove and discard the steering wheel bolt and remove the steering wheel. See Figure 12.
Torque: 46 lb.in (62.5 Nm)

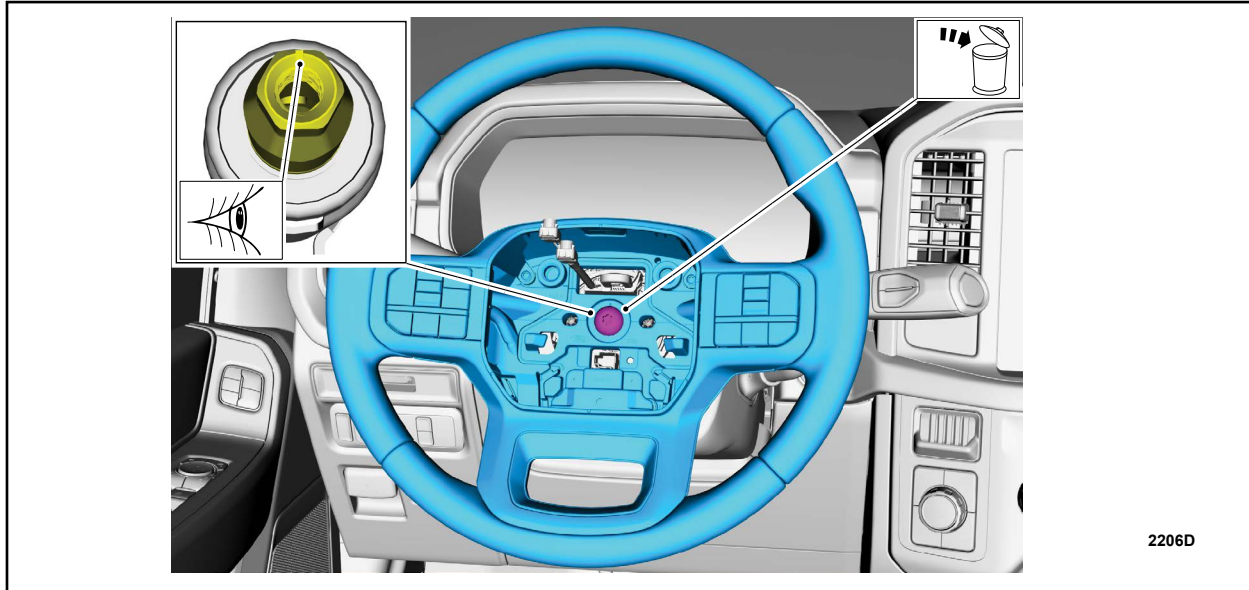


FIGURE 12

5. Remove the steering column shrouds. Follow WSM procedures in Section 501-05.
6. Disconnect the SCCM electrical connectors, unclip the pin type retainer and position the harness aside. See Figure 13.

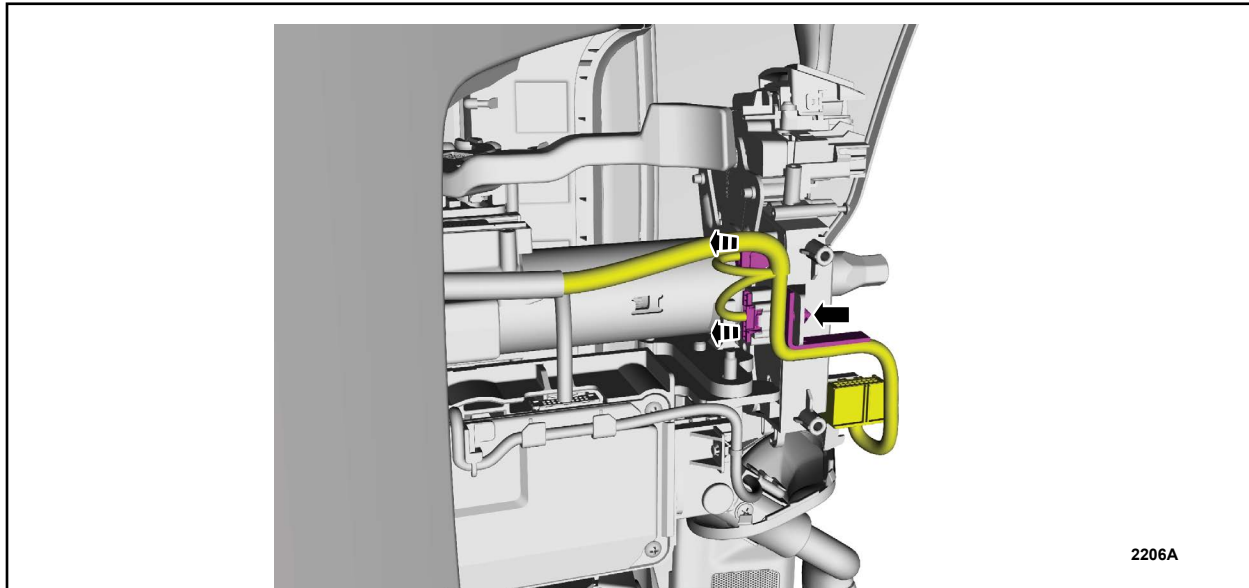


FIGURE 13



7. Remove the retainers and the SCCM. See Figure 14.
Torque: 28 lb.in (3.2 Nm)

NOTE: Clockspring has been removed for clarity. It is not necessary to remove the clockspring separately.

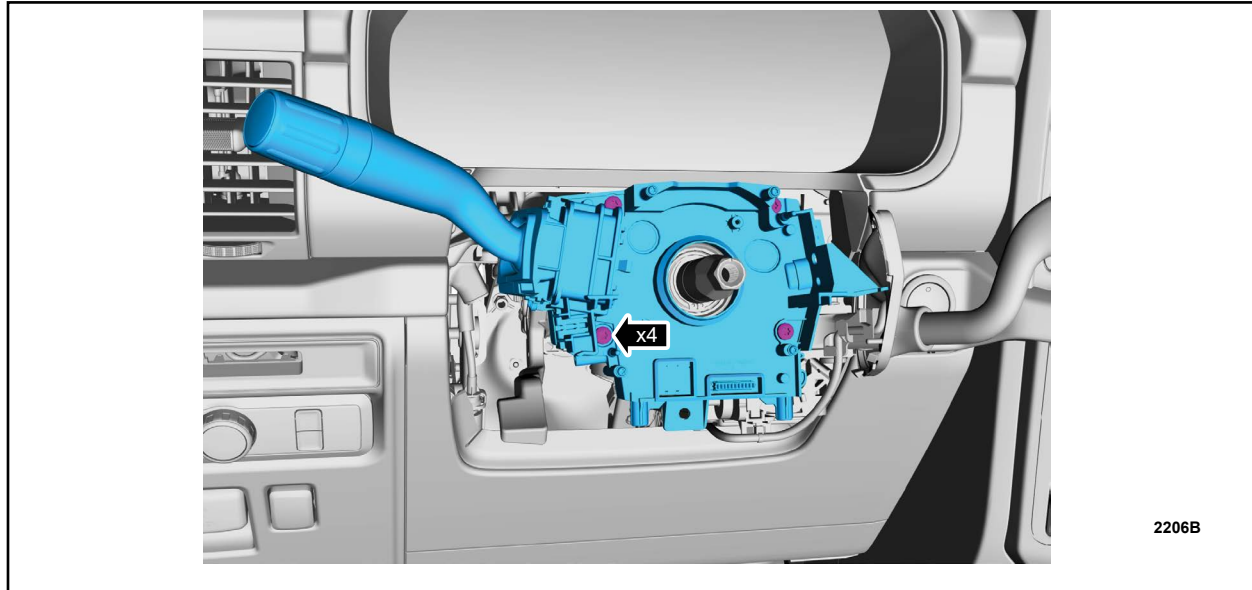


FIGURE 14

8. Install new SCCM. Reverse Steps 1-7.



9. Replace the Heating, Ventilation and Air Conditioning (HVAC) Control Module. Follow WSM procedures in Section 412-00.

NOTE: It is not necessary to perform the PMI procedure for the HVAC module.

NOTE: Use care in separating the HVAC module as it is secured with a clip. Press in on the clips to release. See Figure 15.

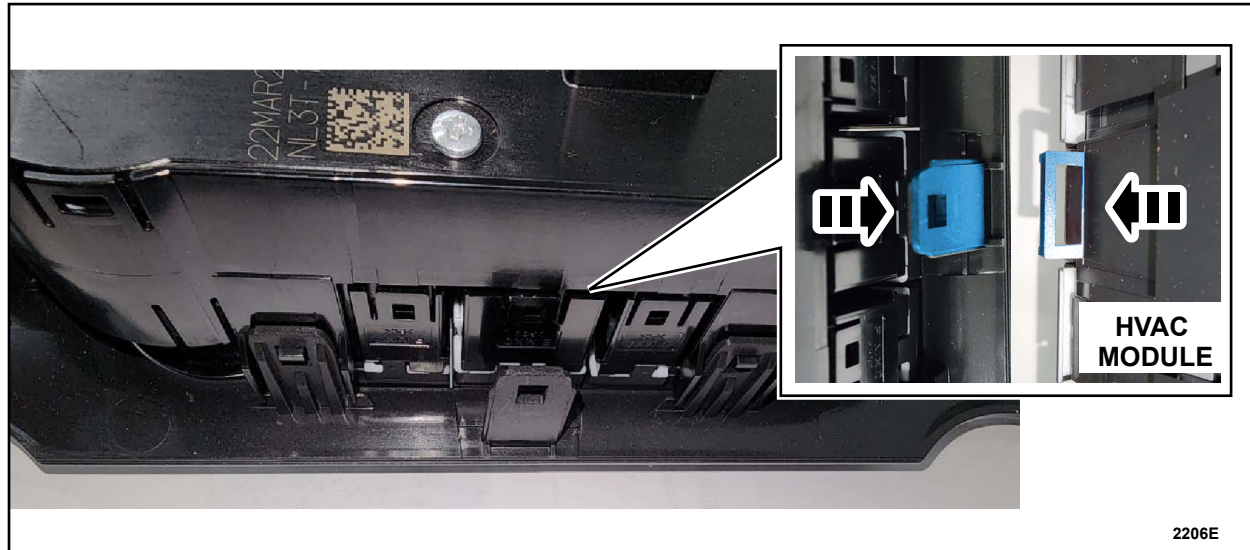


FIGURE 15

10. Using a diagnostic scan tool, complete the PMI process for the SCCM following the on-screen instructions.

11. Connect a battery charger to the 12 Volt (V) battery.

NOTE: Verify the negative cable of the charger is installed on a chassis or engine ground and not the 12V 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).

12. 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.

13. 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.



14. Select **Toolbox** tab.
15. From the list on the LH side of the screen, select the **SCCM**.
16. From the list on the RH side of the screen, select **SCCM - Enable Heated Steering Wheel**
17. Click **RUN**. Follow all on-screen instructions carefully.
18. Start vehicle and verify that the heated steering wheel is functioning. See Figure 16.



FIGURE 16

