



TECHNICAL SERVICE BULLETIN

25-2622

Stuck In Park, "Service Vehicle Soon" Message In The IPC, Illuminated Powertrain Malfunction (Wrench) Indicator With DTC P07E6:71 Stored In The SOBDMC

16 January
2026

Model:

Ford 2024-2025 Mustang Mach-E	Built on or before 30-Jun-2025
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Markets: North American markets only

Issue: Some of the vehicles listed in the Model statement above may exhibit at least one of the following conditions:

- Stuck in park
- "Service Vehicle Soon" message in the IPC
- Illuminated powertrain malfunction (wrench) indicator with DTC P07E6:71 stored in the SOBDMC

This may be due to high ground resistance of the park pawl motor.

Action: For vehicles that meet all of the criteria in the Issue and Model statements, follow the Service Procedure to reprogram the SOBDMC and install a new primary drive unit ground wire harness.

Parts

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
RJ8Z-14301-ZA	1	1	1	Primary Drive Unit Harness
W505255-S450L	1	1	1	Ground Bolt
W722315-S439	4	1	4	RDU Mounting Bolts
Obtain Locally	As Needed	As Needed		Wire Tie
Obtain Locally	As Needed	As Needed		Dual Wall Heat Shrink Tube
NAIPOLYKEN650	As Needed	As Needed		Rotunda Wire Harness Wrap

Service part numbers and "number in package" quantity may change after publication, thus also affecting the "package order quantity". Refer to the parts catalog for the latest information.

Claim Quantity refers to the total number of individual pieces required to repair the vehicle.

Package Order Quantity refers to the amount of the service part number package(s) required to repair the vehicle.

Number In Package refers to the number of individual pieces included in a service part number package, also known as unit of issue (UOI).

As Needed indicates the part is necessary but amount of the part may vary and/or is not a whole number. Parts can be billed out as non-whole numbers, including less than 1.

Warranty Status: Warranty coverage limits and policies are not altered by a TSB. Warranty coverage limits are determined by the identified causal part.

Labor Times

Description	Operation No.	Time
2024-2025 Mustang Mach-E: Retrieve DTCs, Replace The Ground Circuit GD351 Includes Time To Lower The RDU And Reprogram The PCM	252622A	1.8 Hrs.

Extra Time To Reprogram The SOBDM (Can Be Clamed With Operation A)	252622B	0.2 Hrs.
Extra Time To Reprogram The BECM (Can Be Clamed With Operation A)	252622C	0.1 Hrs.
Extra Time To Reprogram The SOBDMB (Can Be Clamed With Operation A)	252622D	0.1 Hrs.
Extra Time To Reprogram The ABS (Can Be Clamed With Operation A)	252622E	0.1 Hrs.

Repair/Claim Coding

Causal Part:	7P236
Condition Code:	42

Service Instruction

1. Connect a battery charger such as Rotunda GRX-3590 or DCA-8000 to the 12-volt battery.

NOTE: To prevent the battery saver mode from activating on the vehicle, make sure the negative cable of the charger is installed on a chassis or engine ground, and not the 12-volt battery negative terminal. Do not have the vehicle plugged into high voltage battery charger during programming. This can cause incorrect module programming. Make sure only the 12-volt battery charger is installed.

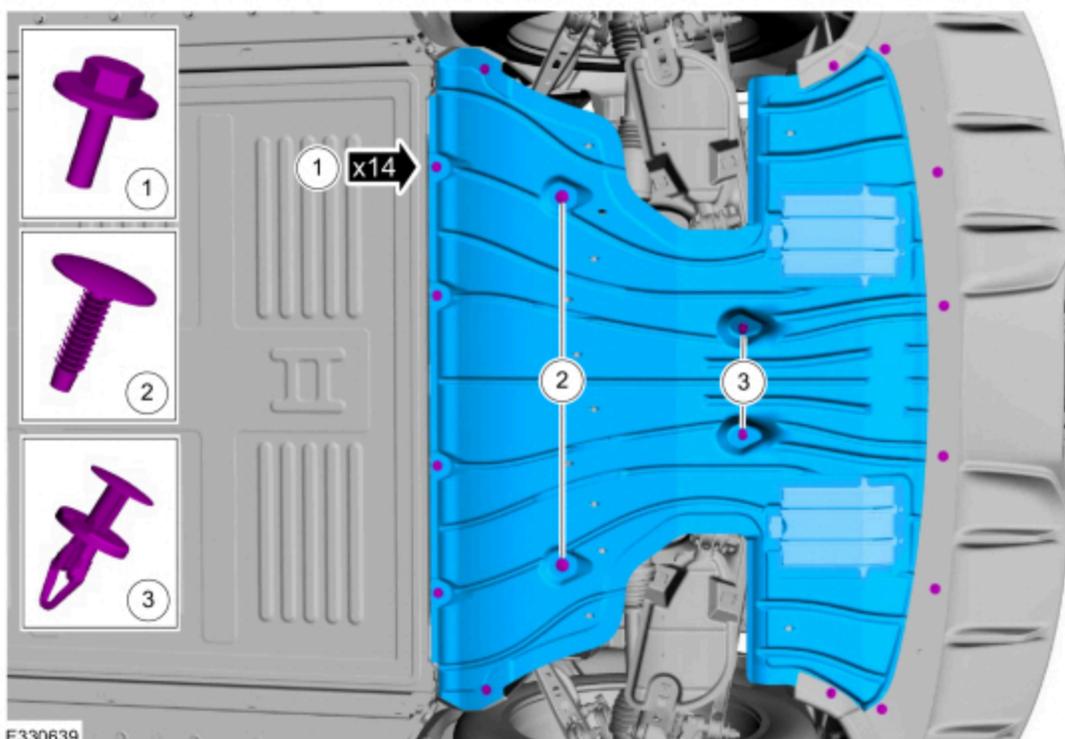
2. Reprogram the PCM using the latest software level of the FDRS scan tool. Follow all on-screen instructions carefully to complete all required coordinated module software update(s), including:

- SOBDM
- BECM
- SOBDMB
- SOBDMC
- ABS module

3. With the vehicle in N, position the vehicle on a hoist. Refer to WSM, Section 100-02: Jacking and Lifting.

4. Remove the pushpins and screws indicated in Figure 1 and remove the rear underbody shield.

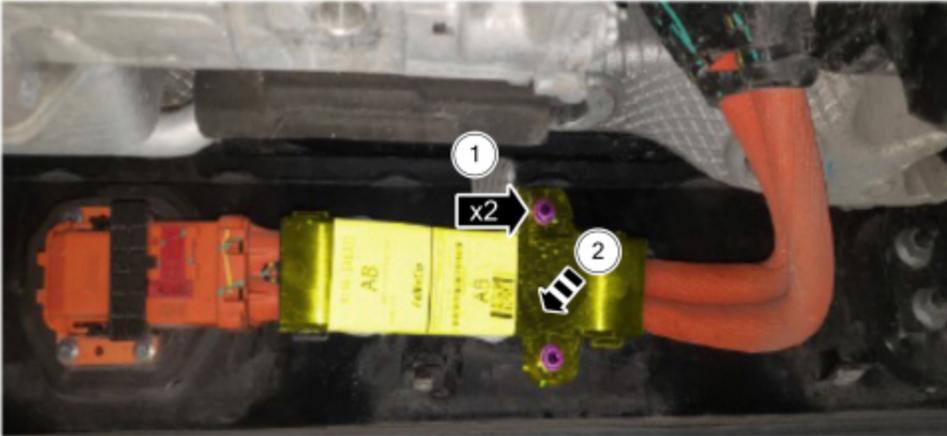
Figure 1



E330639

5. Remove the right rear wheel. Refer to WSM, Section 204-04A. This will allow for improved access to connectors.
6. Remove the nuts and position wire harness away from the studs. (Figure 2)

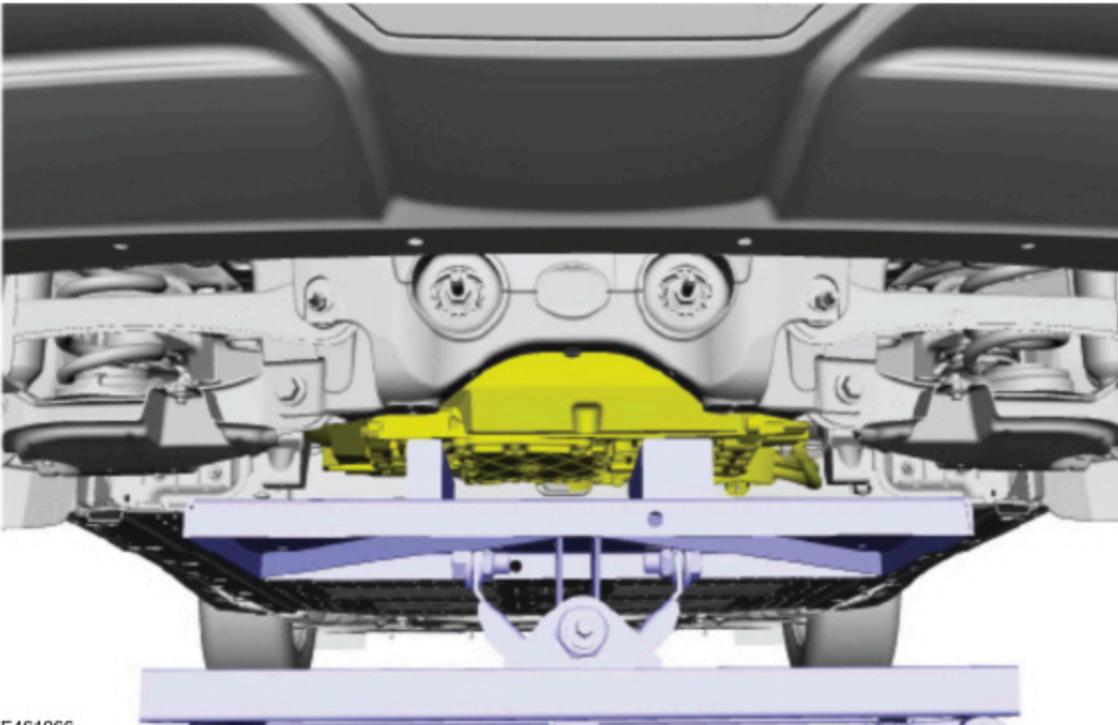
Figure 2



E461965

7. Using a powertrain lift table and wooden blocks, support the rear electric drive assembly. (Figure 3)

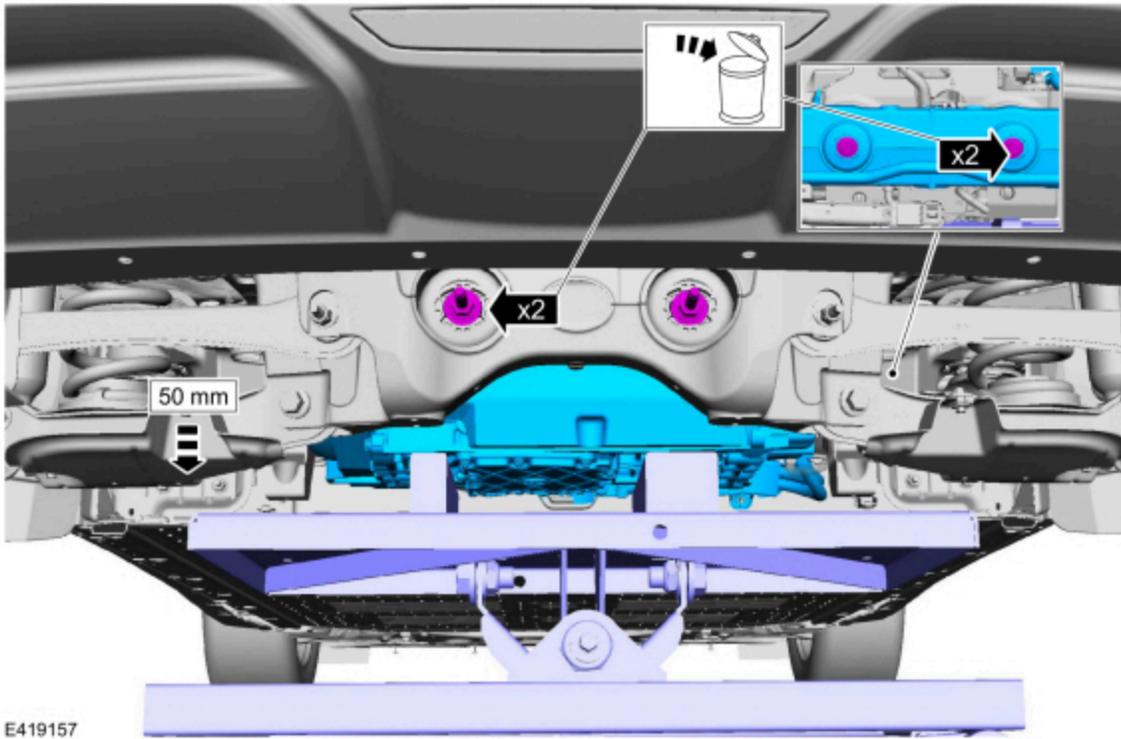
Figure 3



E461966

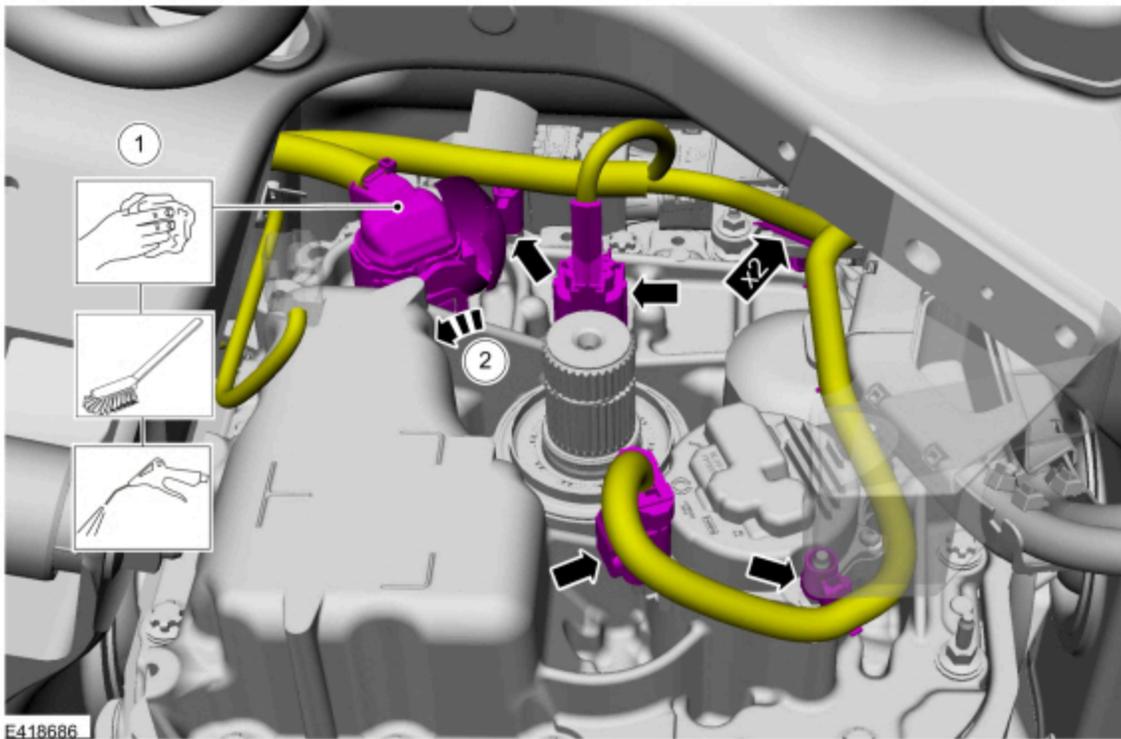
8. Remove and discard the rear electric drive assembly mounting bolts and lower the rear electric drive assembly approximately 2 in (50 mm). (Figure 4)

Figure 4



9. Locate connectors C400, C4051 and C4039. (Figure 5)

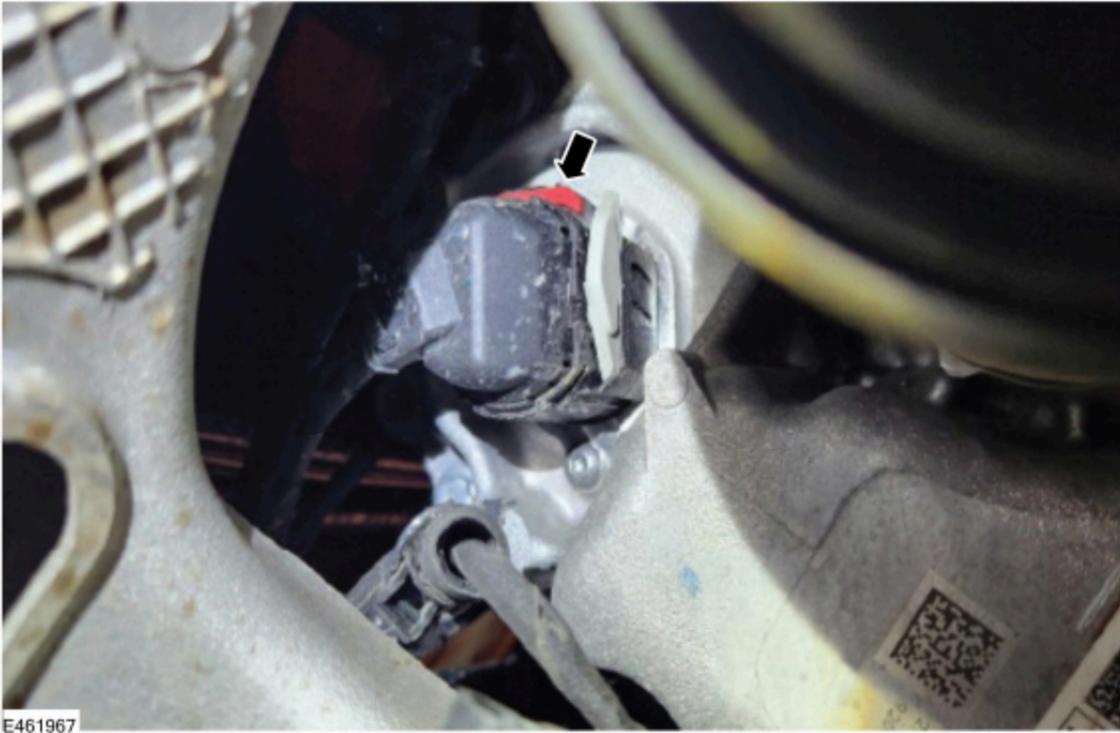
Figure 5



NOTE: The rear right side halfshaft has been removed from this image for clarity, removal of the rear right side halfshaft is not required.

10. Release the red connector latch lock for C400, C4051 and C4039 and disconnect each connector. (Figure 6)

Figure 6



11. Disconnect the 14B599 wire harness retainers on and near the rear electric drive assembly and pull the harness towards the rear of vehicle to allow enough length to perform the needed work. (Figure 7)

Figure 7



E461968

12. Cut the wire tie securing the harness to the back cover. Remove the back cover of connector C400 to expose the backside of the connector. (Figure 8)

Figure 8

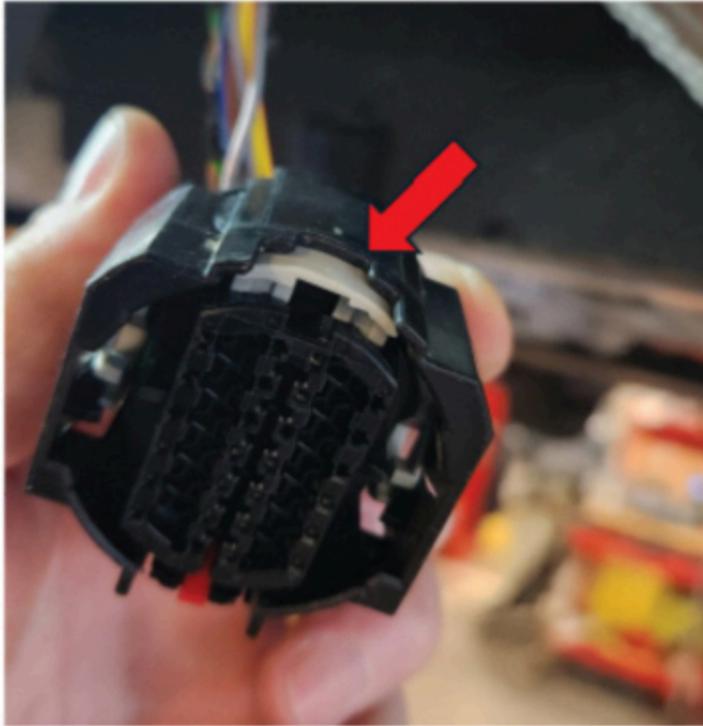


E461969

13. Carefully cut back the existing wiring harness tape approximately 50-76 mm (2-3 in). This will allow adequate space to perform terminal removal.

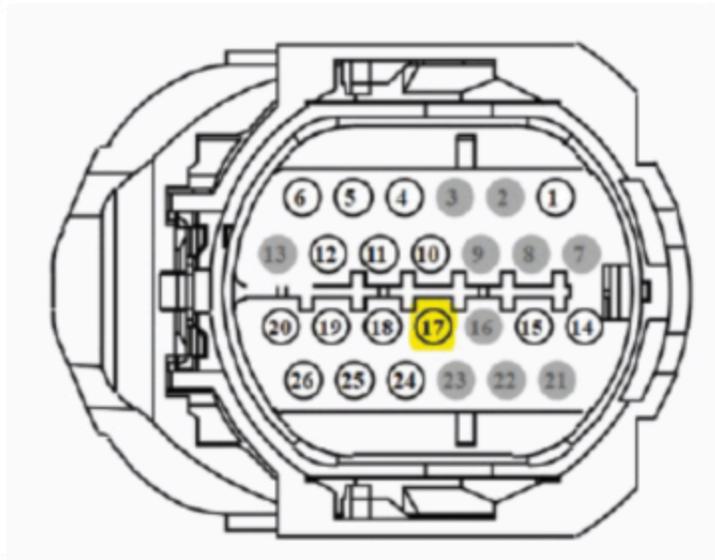
14. Slide out the white terminal lock on the side of connector C400 as shown in the image. (Figure 9)

Figure 9



E461970

15. Release and back out pin 17, circuit GD351 (BK-GN) from connector C400. (Figures 10-11)
Figure 10



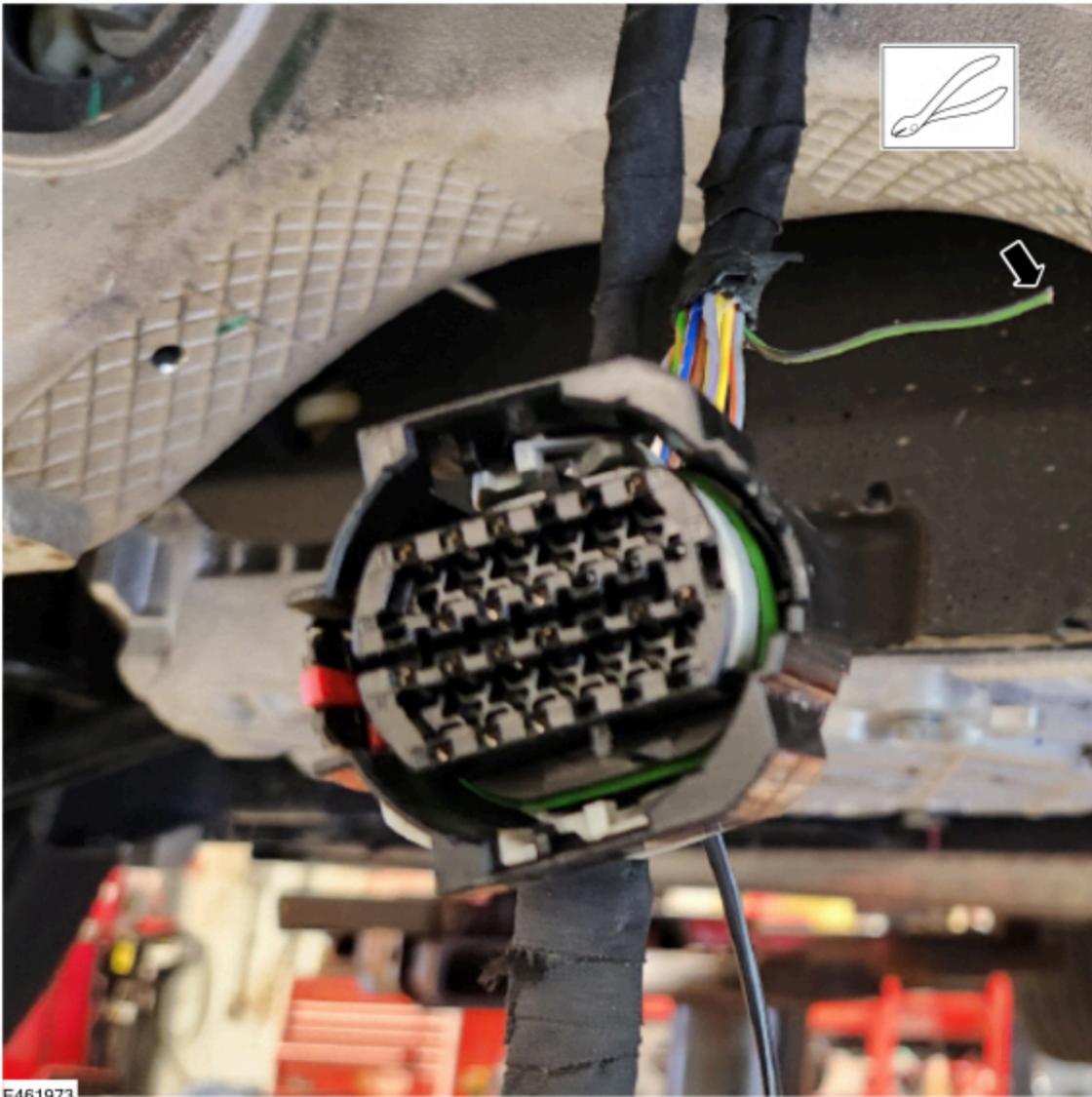
E461971

Figure 11



E461972

16. Cut off the original terminal 50 mm (2 in) from the end of the metal terminal. (Figure 12)
Figure 12



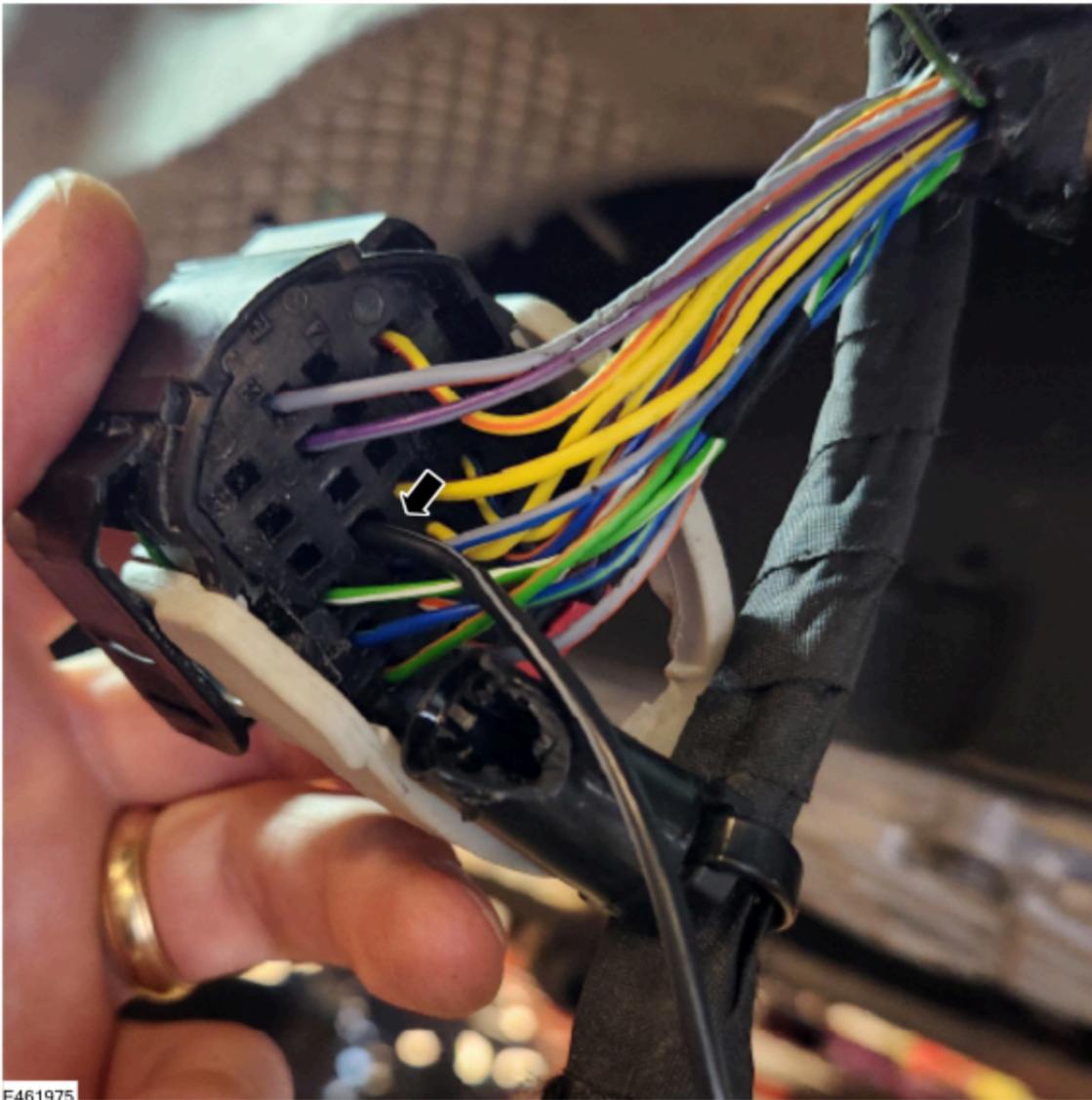
E461973

17. Using adhesive lined dual wall heat shrink tube, seal off the end of the existing cut wire. (Figure 13)
Figure 13



E461974

18. Insert new terminal and service harness wire into cavity 17 of connector C400. (Figure 14)
Figure 14



E461975

NOTE: If the new service harness kit with base part number 14301 comes with a connector shell and the terminal inserted, the connector shell will need to be removed and discarded.

19. Resecure the white terminal lock and carefully make sure the terminal is secured in the connector shell and will not back out.
20. Fold the sealed cut wire against the 14B599 wire harness and secure to the existing 14B599 wire harness using wire harness tape. (Figure 15)

Figure 15



21. Install the back cover of connector C400 and secure the cover to the harness with a wire tie. (Figure 16)
Figure 16



22. Wire tie the service harness to the 14B599 wire harness in the locations shown. (Figure 17)
Figure 17



E461978

- 23.** Re-route the 14B599 wire harness back to its original location, reconnect and lock C400, C4051 and C4039. Reattach all 14B599 wire harness retainers to their original locations.
- 24.** In the right rear wheel well area, locate the grounding lug in the area shown near the brake line mounting bracket. (Figure 18)

Figure 18



E461979

- 25.** Loosely route the service harness towards the grounding lug and secure the grounding eyelet using the new ground bolt and tighten to 10.5 Nm (93 lb-in). (Figure 19)

Figure 19



26. Insert the service harness retainer into the body as shown. (Figure 20)

Figure 20



27. Using wire ties, secure the new wire harness approximately every 101 mm (4 in). (Figure 21)

(1). Cut off the wire tie tails.

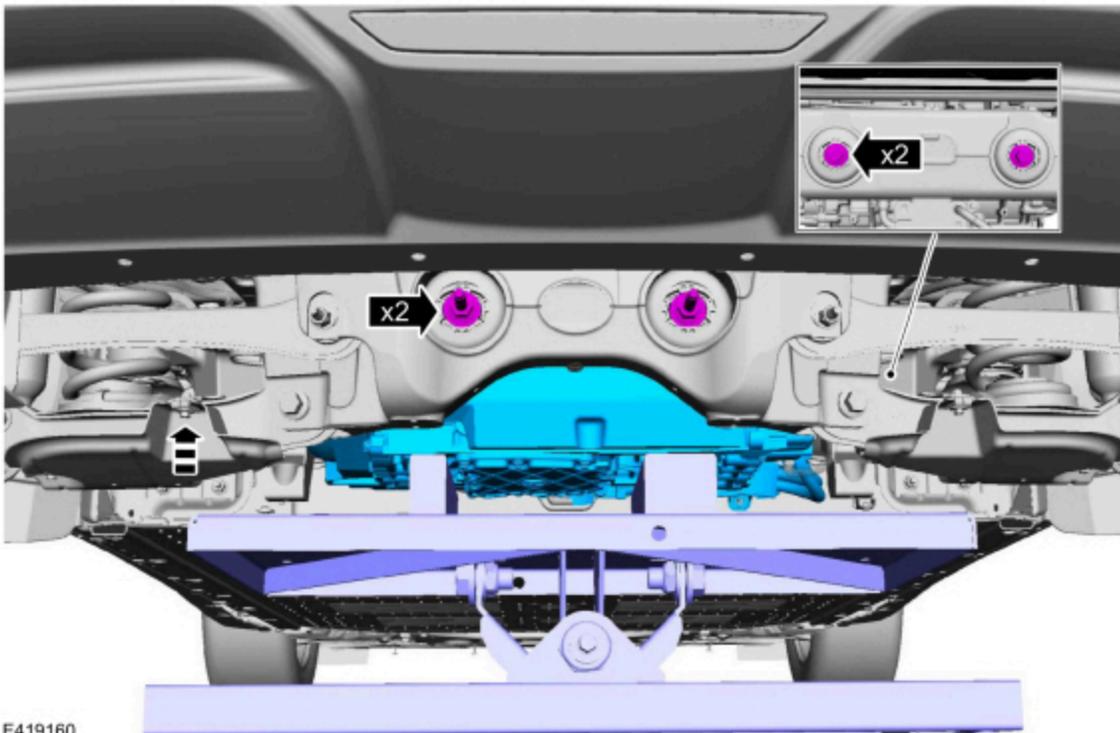
Figure 21



E461982

28. Install the rear electric drive assembly and the new mounting bolts. Tighten the bolts to 184 lb.ft (250 Nm). (Figure 22)

Figure 22



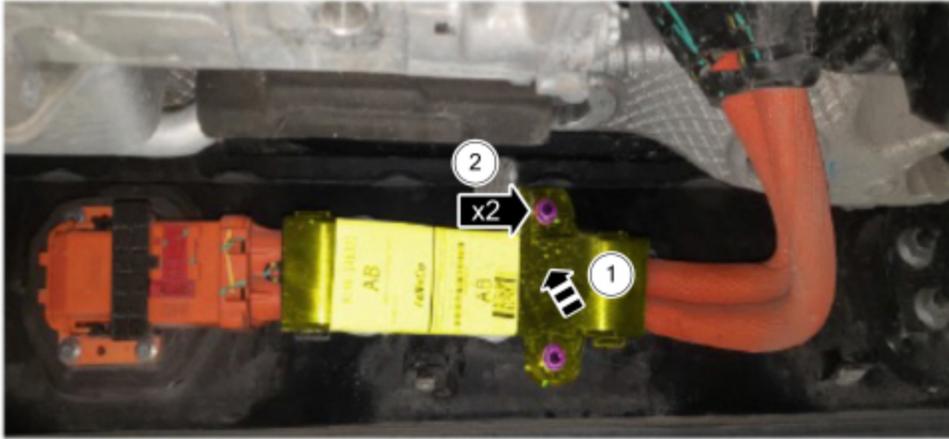
E419160

NOTE: Hand start the bolts.

29. Remove the powertrain lift table and the wooden blocks.

30. Position back the wire harness and install the nuts. Tighten the nuts to 97 lb.in (11 Nm). (Figure 23)

Figure 23



E461983

31. Reinstall right rear wheel. Refer to the [WSM](#), Section 204-04A.
32. Reinstall the rear underbody shield, push pins, and the screws. (Figure 1)

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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.