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TRAILER TOW

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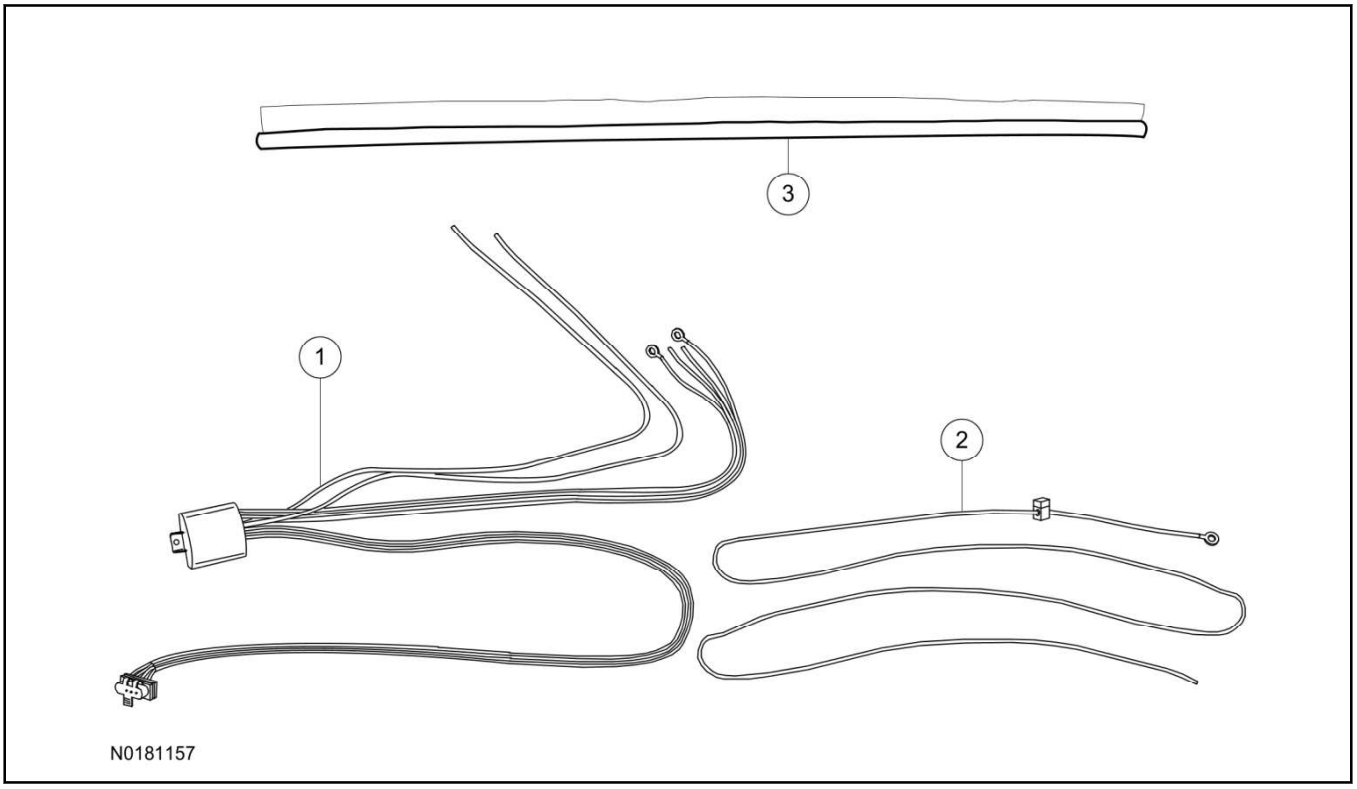
INSTALLATION

Trailer Tow



Maverick

1. Verify correct kit number.

Review Trailer Tow Installation Kit Contents

2. Review Trailer Tow Installation Kit Contents.

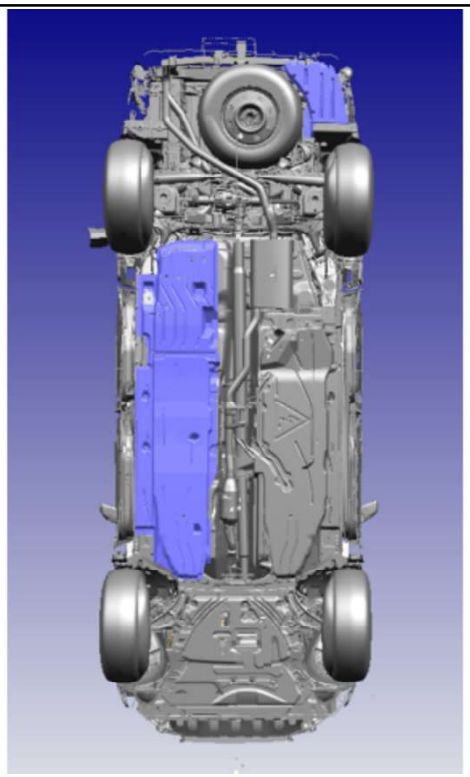
Trailer Tow Installation Kit

ITEM	QUANTITY	DESCRIPTION
1	1	Trailer Tow Converter Harness Assembly
2	1	Power Cable with In-Line Fuse
—	7	Foam Pad (Not Shown)
—	14	Tie Straps (Not Shown)
—	60"	Convoluted Tubing (Not Shown)
—	6	Hitch Wire Retainer Tie Straps (Not Shown)
—	1	Fuse - 15A (Not Shown)
3	1	- 14N302- Protective Hea Sleeve

INSTALLATION (Continued)

Vehicle Preparation

3. Remove the RH and LH Rear Lamp Assembly. For additional information, refer to Workshop Manual (WSM) Section 417-01.
4. Remove the floor plan shields highlighted in the image.



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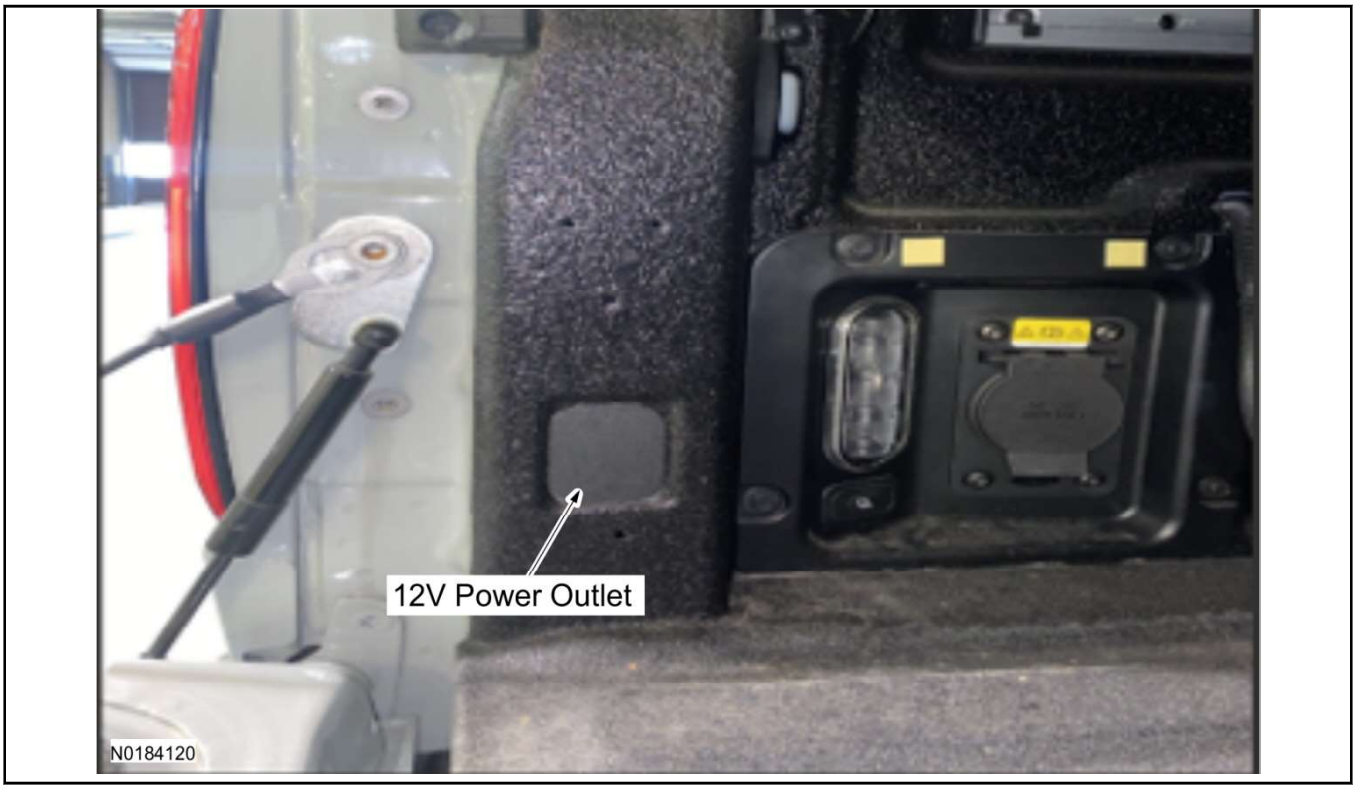
INSTALLATION (Continued)

Route Power Wire — Maverick XL and Hybrid Lariat

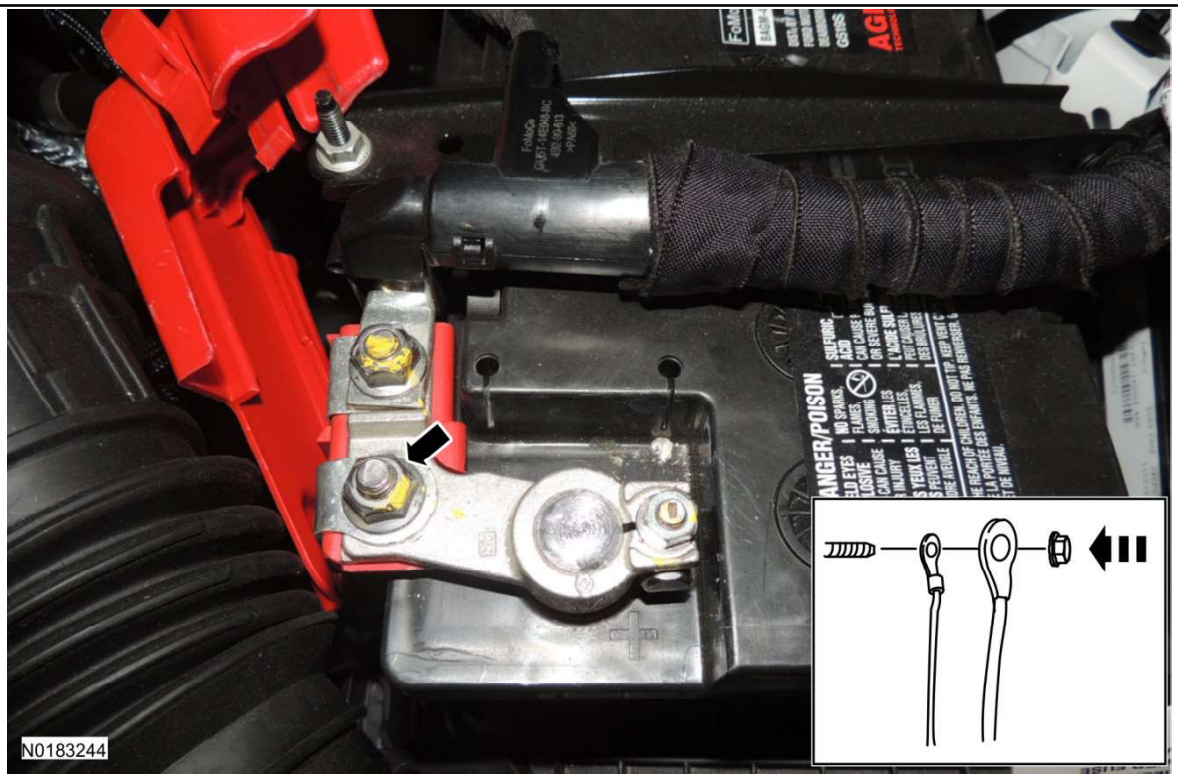
5. Connect the red inline fused jumper harness to the 12V AC outlet.
   1 Identify the Violet/Brown wire in the 12V Power outlet.
   2 Splice one end of the red inline fused power cable to the red (battery) wire from the converter module.
   3 Splice the other end of the red inline fused power cable to the Violet/Brown wire from the 12V power outlet.



Route Power Wire — Maverick XLT

6. Connect the red inline fused jumper harness power eyelet to the high current fuse box bus bar.
   1 Remove the nut from the bus bar located near the battery.
   2 Install the power wire onto the bus bar stud.
   3 Install bus bar nut.
   - **Tighten to 9 Nm (80 lb-in).**
     IMPORTANT: For proper operation, the nut securing the inline fused jumper eyelet to the bus bar must be torqued to 9 Nm (80 lb.in).

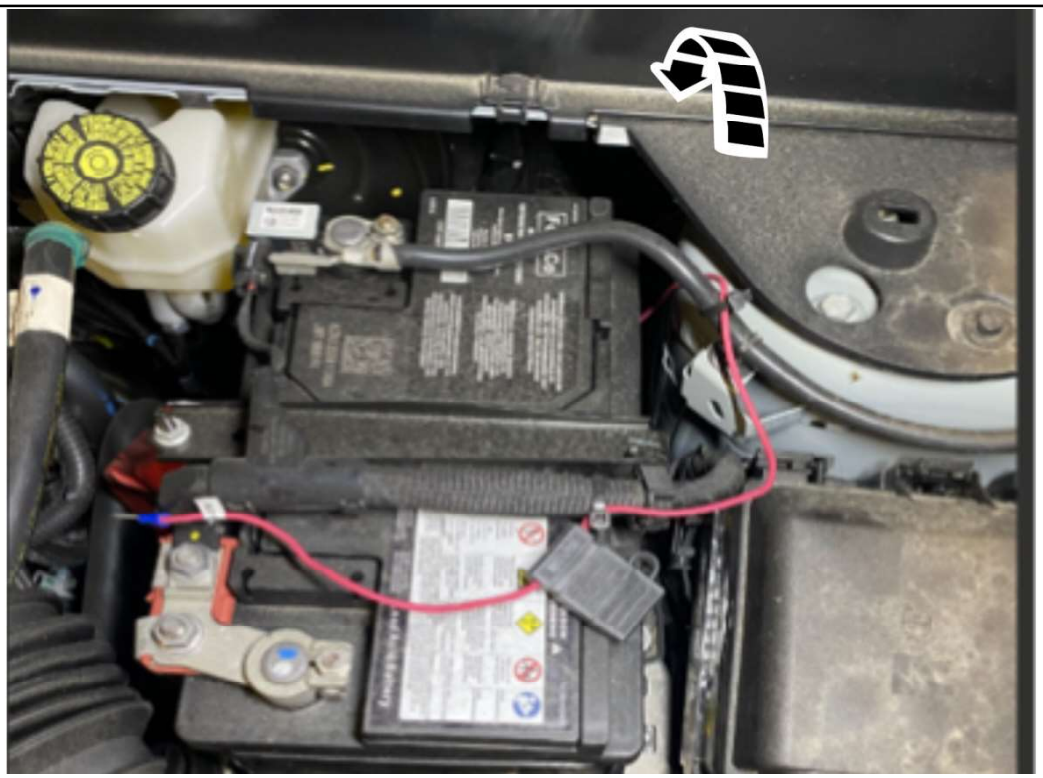
INSTALLATION (Continued)



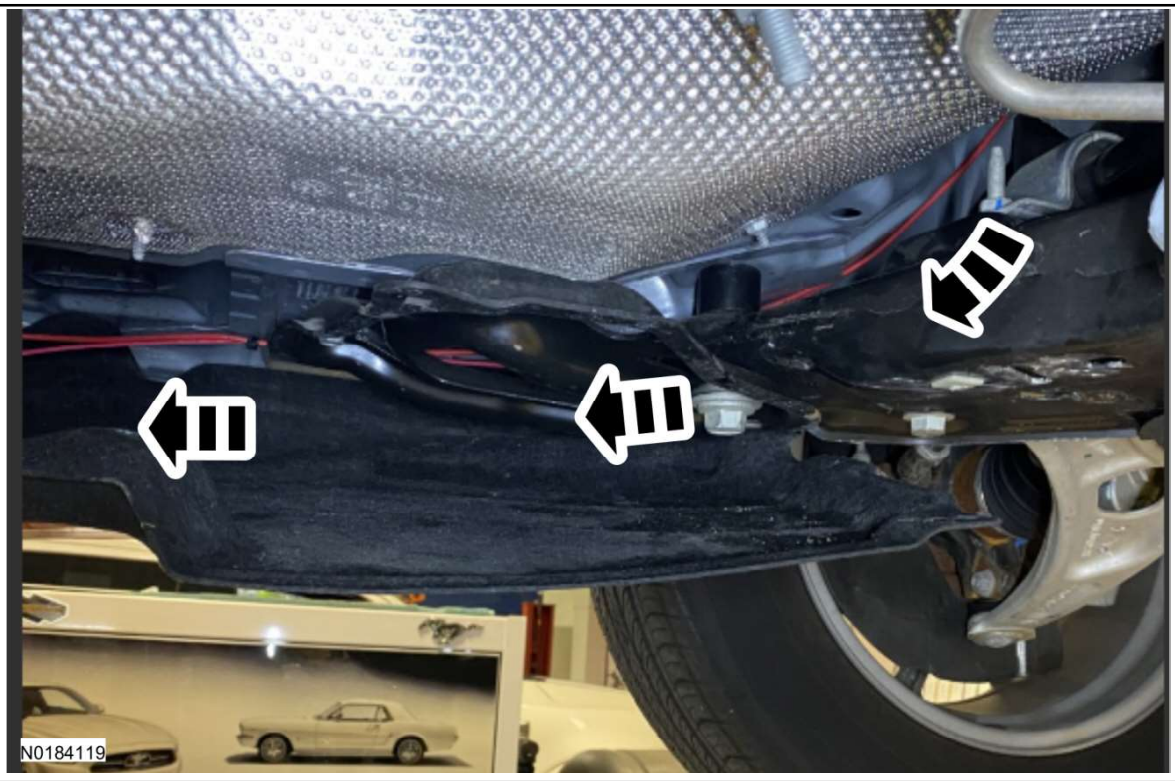
7. Install the convolute tubing to the red power cable between fuse holder and body grommet, and from the eyelet to the fuse holder.
8. Secure the red power wire onto the battery cable harness using a tie strap.

INSTALLATION (Continued)

9. Route the red power wire from the battery down to the undercarriage.

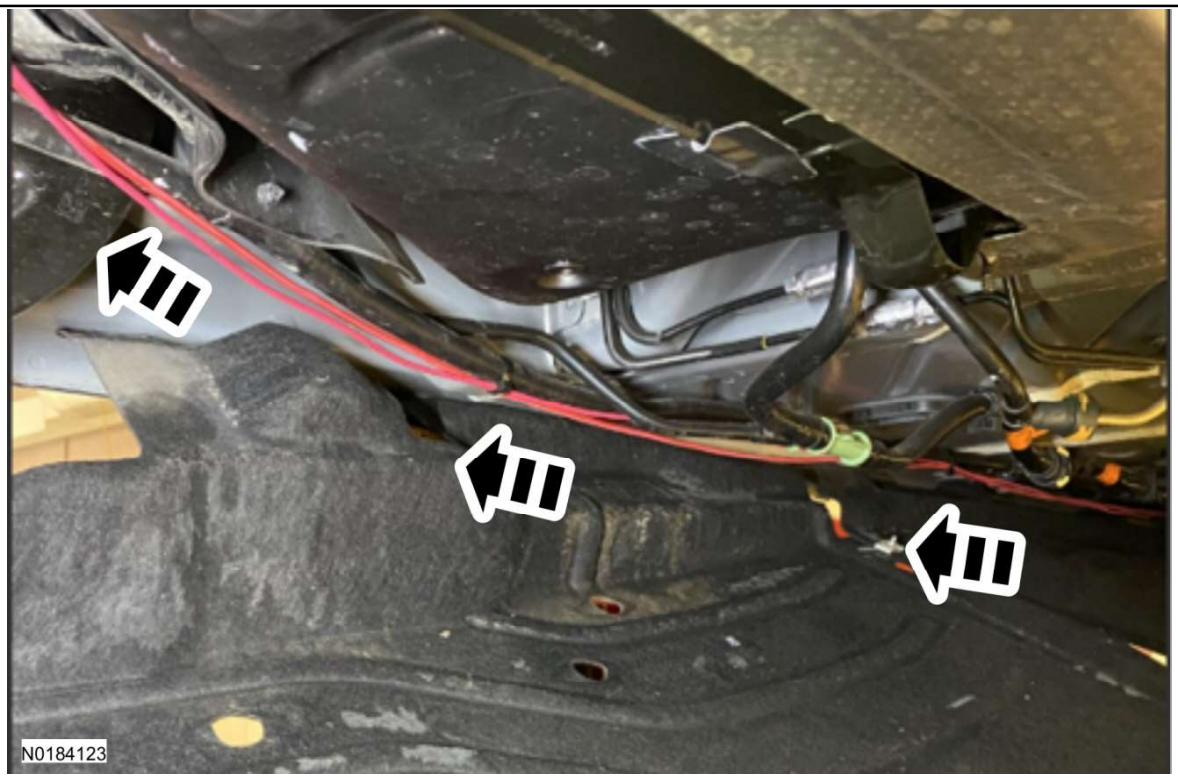


10. Route the red power wire along the existing wiring harness towards the rear of the vehicle.
    - Secure the red power wire to the wire harness using tie straps.

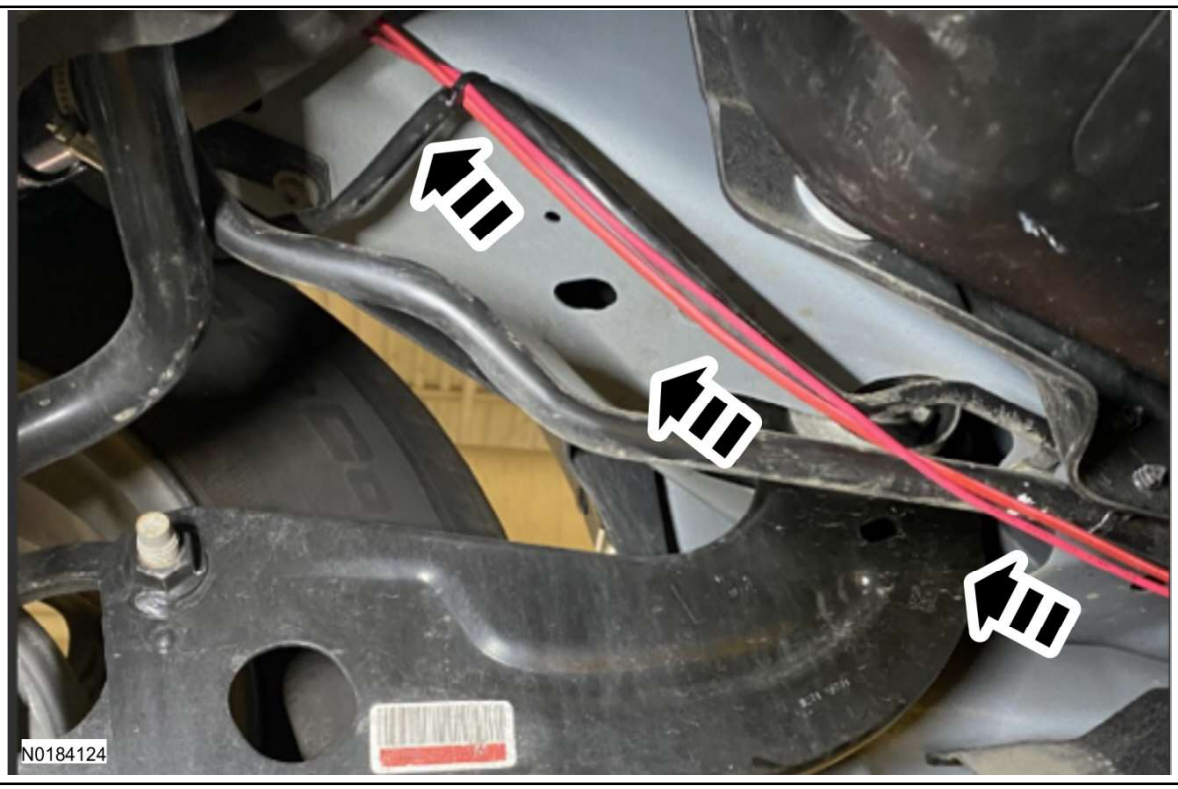


INSTALLATION (Continued)

11. Continue to route the red power wire along the existing wire harness towards the rear of the vehicle.



12. Route the red power wire towards the LH Rear Lamp Assembly.

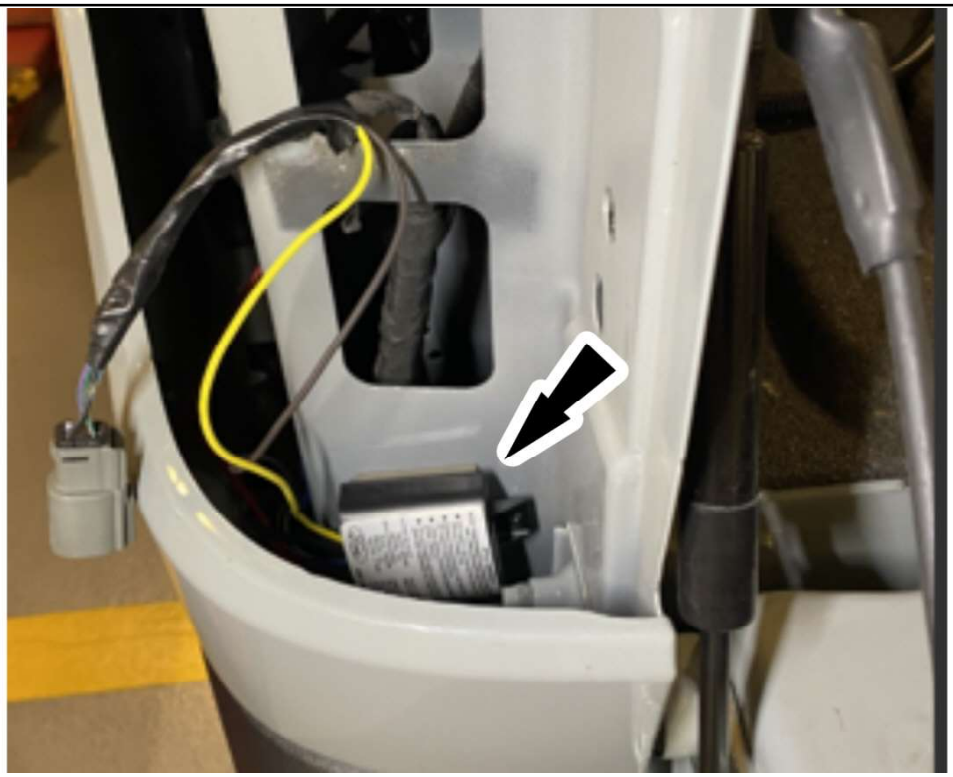


13. Splice the red (battery) wire from the converter module to the red power cable that was routed from the front of the vehicle.

INSTALLATION (Continued)

Install the Trailer Tow Converter Harness Assembly

14. Install the trailer tow converter module with the orientation shown in the image.
    - Remove the protective cover on the 2 sided tape and install the trailer tow converter module on the body.

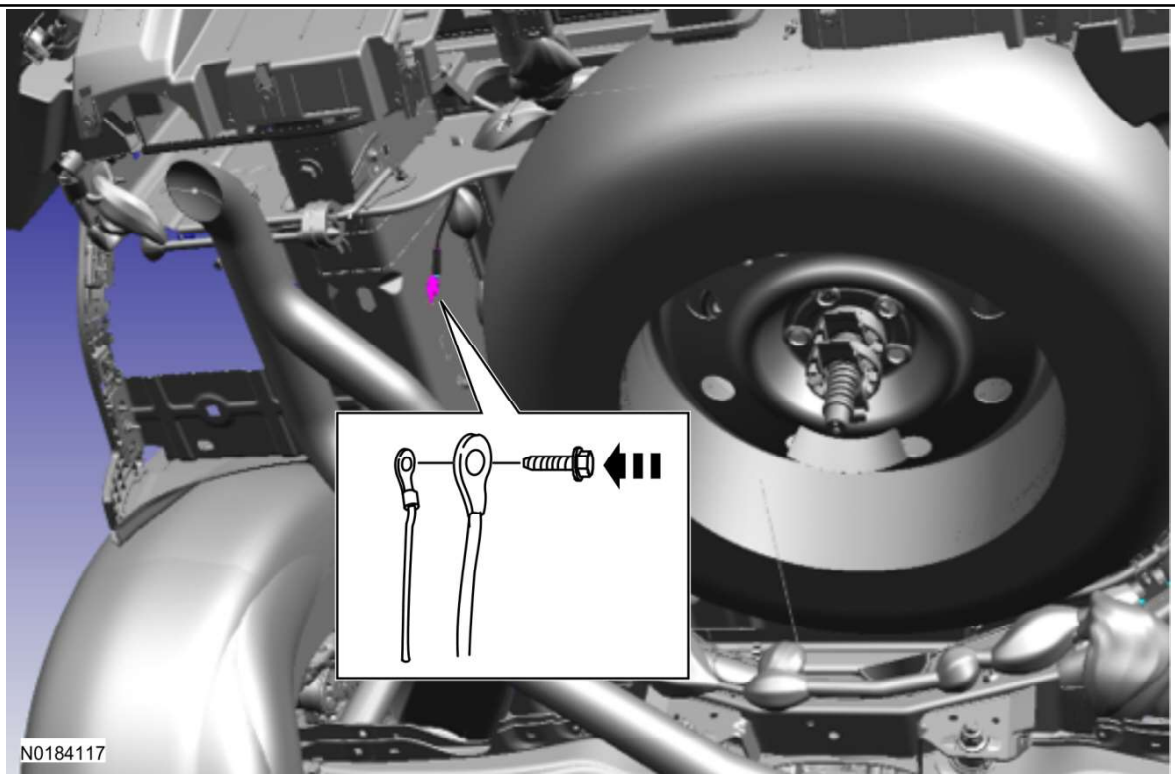


INSTALLATION (Continued)

Circuit Wires for Connection

NOTE:
Refer to "Proper Wire Splicing Techniques" prior to proceeding.

15. Connect the Black "Ground" wire and Blue stop lamp wire both from the control module to the ground stud located on underbody pickup box floor panel.



16. Locate the LH and RH rear tail lamp wire harness, where the control module harness connections will be made.
17. Cut and peel back the wire harness insulation at the LH and RH rear tail lamp wire harness.
18. Route the Green wire from the control module along the rear floor pan and up to the RH side rear tail lamp wire harness.
    - Install tape pads at 3 locations equally spaced to secure the wire to the vehicle floor pan.
19. Identify the White/Green LH turn circuit wire within the LH rear tail lamp wire harness.
    - A DVOM connected to the correct wire will show 0V, then show pulsing 12V when the Multifunction Switch in the LEFT TURN position.
      A logic probe will show ground on the correct wire, then show pulsing power when the Multifunction Switch in the LEFT TURN position.
20. Connect the Yellow LH turn signal wire from the control module harness to the White/Green LH turn circuit wire within the LH rear tail lamp wire harness.

INSTALLATION (Continued)

16. Locate the LH and RH rear tail lamp wire harness, where the control module harness connections will be made.
17. Cut and peel back the wire harness insulation at the LH and RH rear tail lamp wire harness.
18. Route the Green wire from the control module along the rear floor pan and up to the RH side rear tail lamp wire harness.
    - Install tape pads at 3 locations equally spaced to secure the wire to the vehicle floor pan.
19. Identify the White/Green LH turn circuit wire within the LH rear tail lamp wire harness.
    - A DVOM connected to the correct wire will show 0V, then show pulsing 12V when the Multifunction Switch in the LEFT TURN position.
      A logic probe will show ground on the correct wire, then show pulsing power when the Multifunction Switch in the LEFT TURN position.
20. Connect the Yellow LH turn signal wire from the control module harness to the White/Green LH turn circuit wire within the LH rear tail lamp wire harness.
21. Identify the Violet/Green tail lamp circuit wire within the LH rear wire harness.
    - A DVOM connected to the correct wire will show 0V with the Headlight Switch in the OFF position and 12V with the Headlight Switch in the parking lights ON position.
      A logic probe connected to the correct wire will show ground with the Headlight Switch in the OFF position and power with the Headlight Switch in the parking lights ON position.
22. Connect the Brown tail lamp wire from the control module harness to the Violet/Green tail lamp circuit wire within the LH rear wire harness.
23. Identify the Gray/Violet RH turn circuit wire within the RH rear tail lamp wire harness.
    - A DVOM connected to the correct wire will show 0V, then show pulsing 12V when the Multifunction Switch in the RIGHT TURN position.
      A logic probe will show ground on the correct wire, then show pulsing power when the Multifunction Switch in the RIGHT TURN position.
24. Connect the Green RH turn signal wire from the control module harness to the Gray/Violet RH turn circuit wire within the RH rear tail lamp wire harness.
25. Connect the Blue stop lamp wire from the control module harness to the ground stud located on the LH quarter panel.

INSTALLATION (Continued)

4 Flat Ribbon Trailer Wire Harness - Protective Heat Sleeve Installation

NOTICE:

The protective heat sleeve should be installed onto the 4 flat ribbon trailer wire harness in areas where high temperatures could occur, such as exhaust pipes, mufflers etc. Failure to properly shield the trailer tow wiring harness in areas where high temperatures occur could result in harness failure. The installation process can be found in the steps below.

26. Position the protective heat sleeve onto the 4 flat ribbon trailer wire harness in area that requires heat protection.
    - Cut to length as needed.

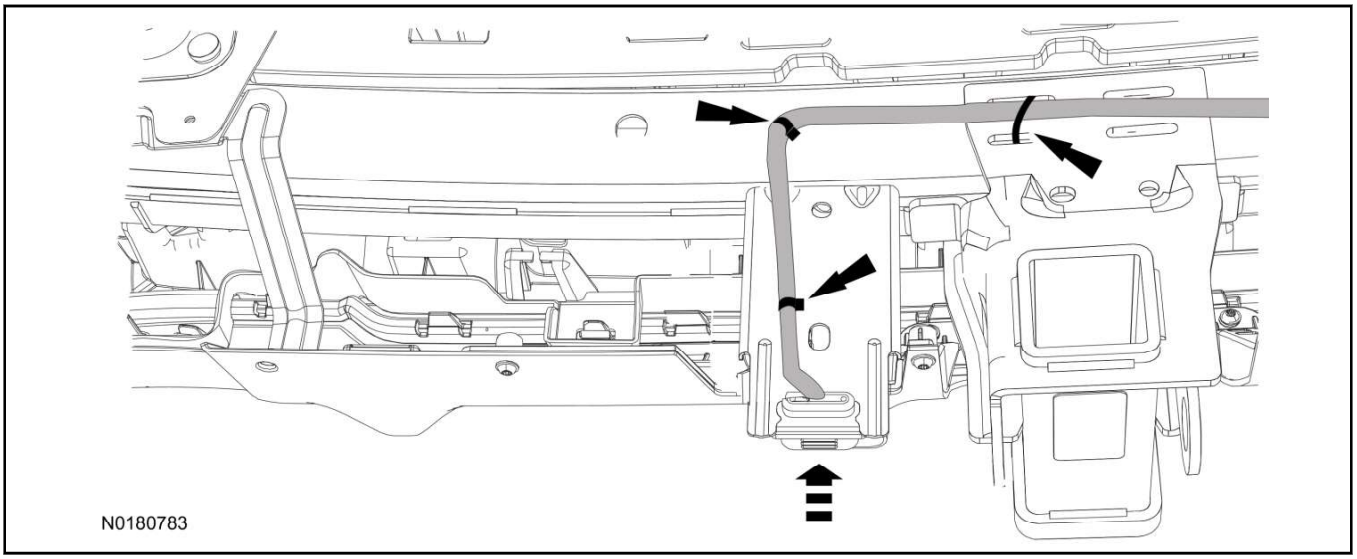
27. Remove adhesive strip backing and secure the protective heat sleeve around the 4 flat ribbon trailer wire harness.

INSTALLATION (Continued)

Secure Wires

NOTICE:
Secure harness away from sharp edges, moveable parts or high heat sources.

28. Install the 4-pin connector to the front of the trailer hitch. Secure the 4-pin ribbon harness to the hitch and vehicle harness.



29. Bundle all excess wires together and use the supplied tie straps to secure.
30. Install the in-line fuse into the red power cable fuse socket, under the hood near the battery.

NOTE:
If your vehicle is equipped with Reverse Park Aid, Blind Spot Information System, Cross Traffic Alert or other detection system a false alert maybe generated when towing a trailer.

NOTE:
The Class 1 4-pin trailer tow harness does not support electric trailer brakes.

31. Verify proper operation of the vehicle lighting systems and 4-pin trailer tow connector.
    - Gray/Violet - Module/Green RH Turn Signal
    - White/Green - Module/Yellow LH Turn Signal
    - Violet/Green - Module/Brown Tail Lamps
    - Ground stud - Black wire
    - Ground stud - Module/Blue Brake

Reassemble Vehicle

32. Reverse the removal procedure to reassemble the vehicle.

