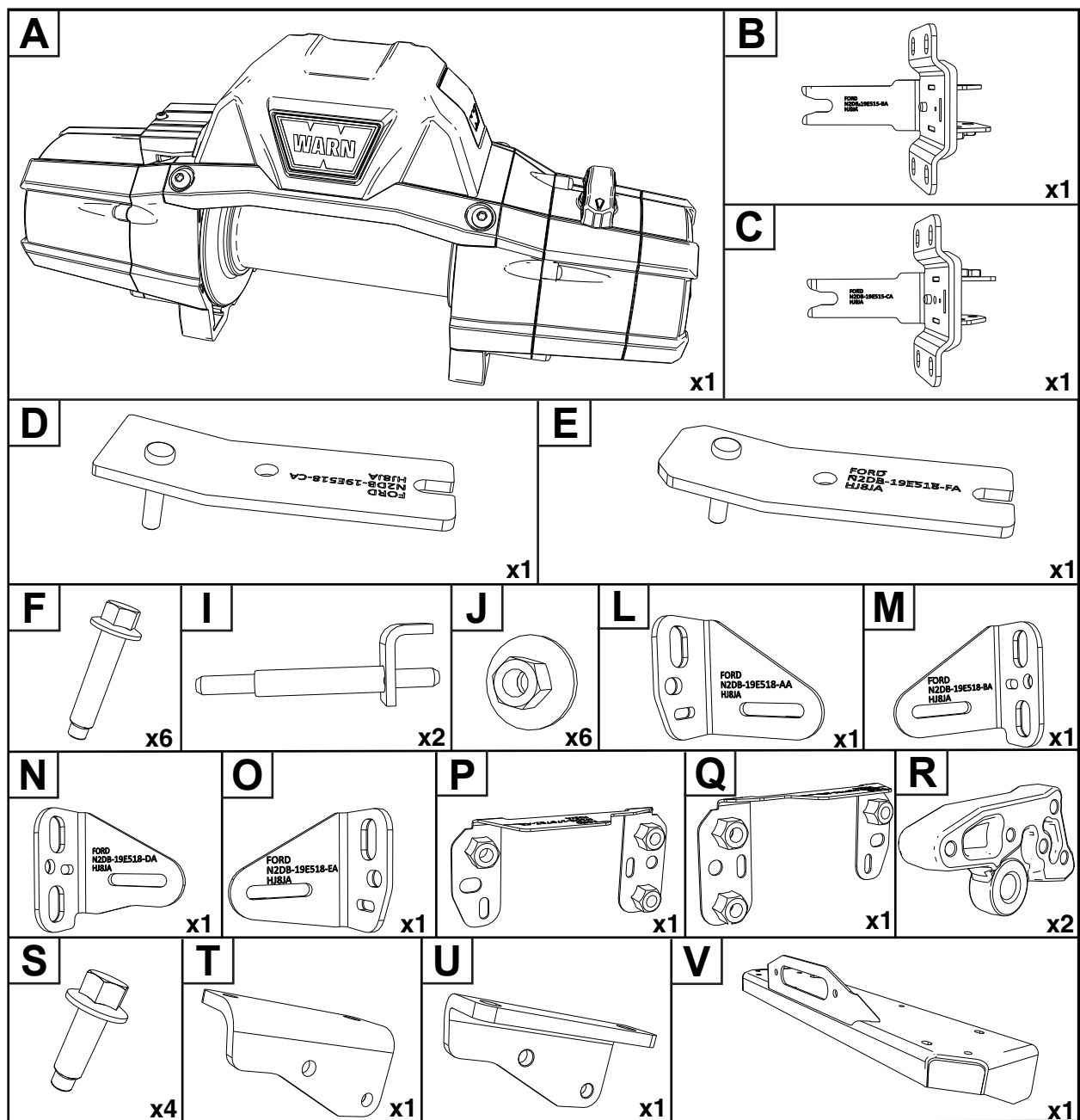


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PRIOR TO INSTALLATION READ THESE INSTRUCTION COMPLETELY
For questions, Call the FORD PERFORMANCE Techline 1-800-367-3788

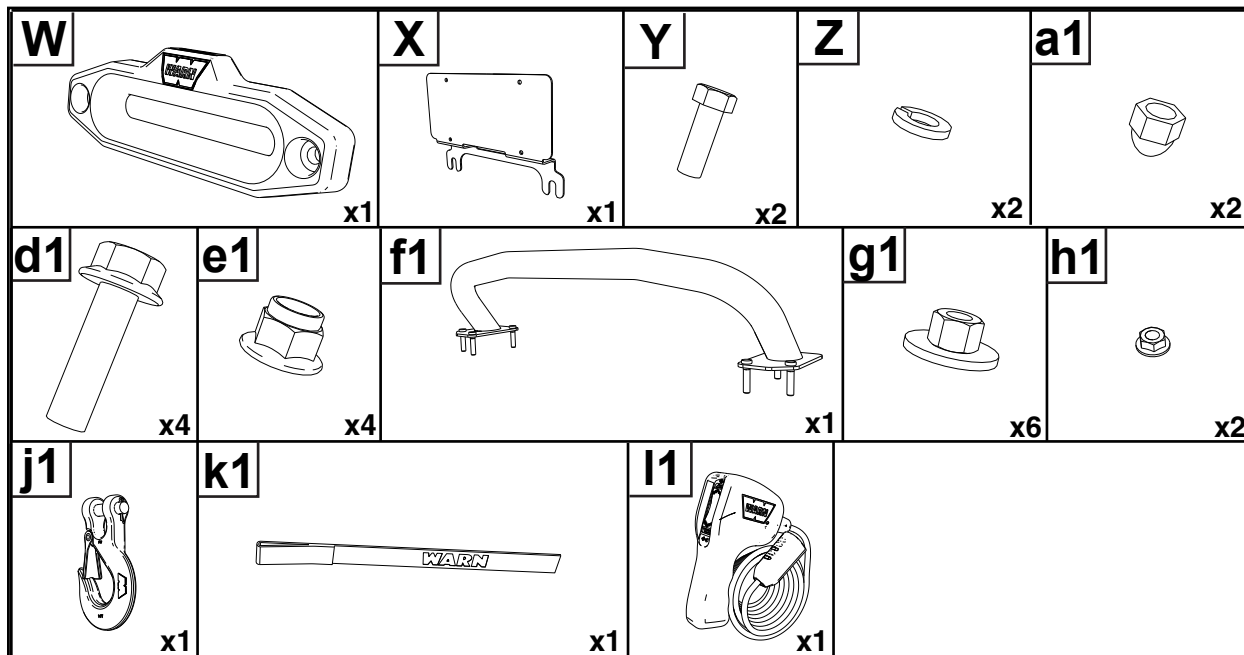
Please visit <https://www.performanceparts.ford.com> for warranty information

Warn Winch Kit

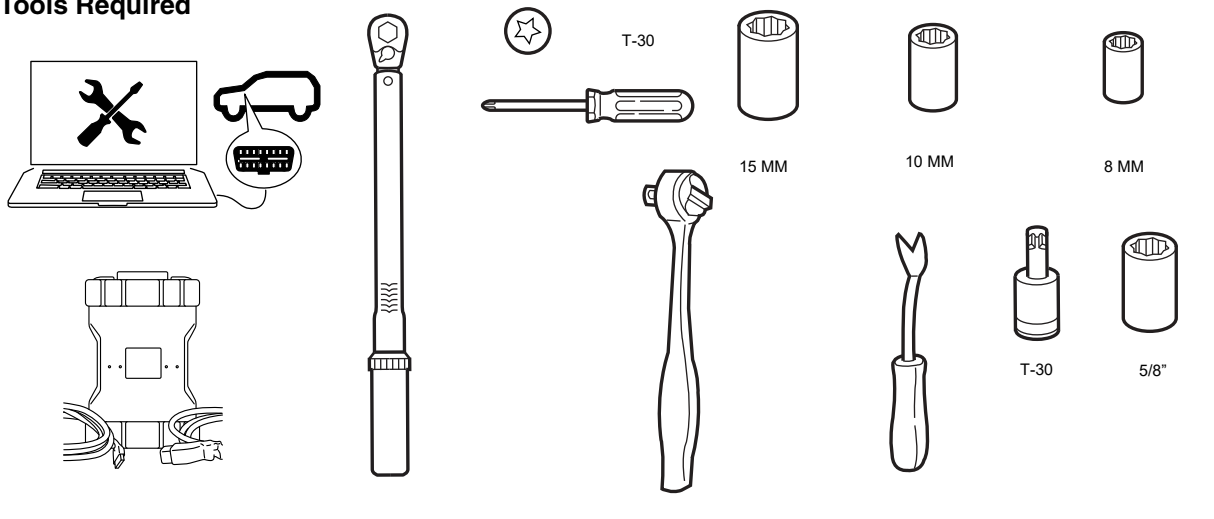


Ford Factory Shop Manual purchase options www.motorcraftservice.com

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Tools Required





M-1821-B
2021 →
Bronco Off-Road Winch

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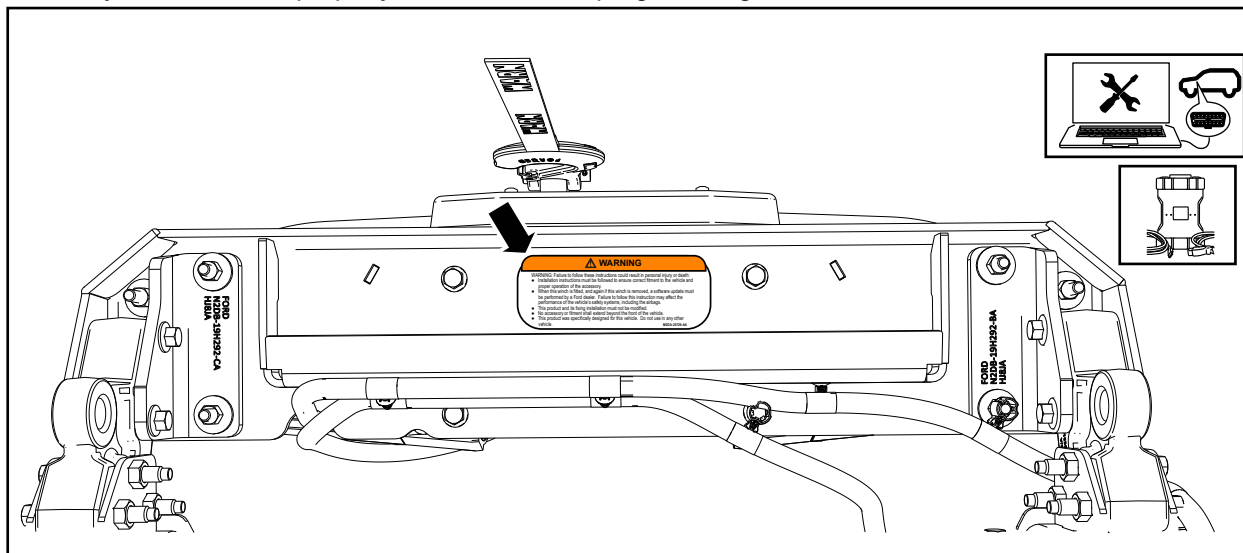
Kit Contents	Description	Part Number
A	Winch	N2DB-19E513-AA
B	Clevis Bracket (Left Hand)	N2DB-19E515-BA
C	Clevis Bracket (Right Hand)	N2DB-19E515-CA
D	CAC Bracket (Left Hand)	N2DB-19E518-CA
E	CAC Bracket (Right Hand)	N2DB-19E518-FA
F	Outer Frame Bolt - M12x1.75x80.0 HEX FLNG PIL	W500747-S450B
I	Inner Frame Bolt	N2DB-19H381-AA
J	Frame Bracket Nut - M10 HX PTM FL 10	W716805-S442
L	Outer Frame Bracket (Left Hand)	N2DB-19E518-AA
M	Inner Frame Bracket (Left Hand)	N2DB-19E518-BA
N	Inner Frame Bracket (Right Hand)	N2DB-19E518-DA
O	Outer Frame Bracket (Right Hand)	N2DB-19E518-EA
P	Frame Nut Plate (Left Hand)	N2DB-17B757-AA
Q	Frame Nut Plate (Right Hand)	N2DB-17B756-AA
R	Recovery Forging	N2DB-19E515-AA
S	Recovery Forging Bracket Bolt - M12X30 HF PIL 10	W500642-S405B
T	Recovery Forging Bracket (Left Hand)	N2DB-19H292-BA
U	Recovery Forging Bracket (Right Hand)	N2DB-19G292-CA
V	Winch Plate	N2DB-19H292-AA
W	Fair Lead	N2DB-19E514-AA
X	License Plate Kit (Optional)	KN2DB-17N397-AA
Y	Fairlead Bolt - 7/16-14 HX	WARN-1824
Z	Fairlead Washer - 7/16 HELIX SPLIT	WARN-2146
a1	Fairlead Nut - 7/16 ACORN	WARN-73849
d1	Winch Housing Bolt - M10 X 35	WARN-69954
e1	Winch Housing Nut - M10	WARN-87166
f1	Brush Bar	
g1	Brush Bar Nut - M10 HX PTM FL 10	W716805-S450B
h1	Nut - M6 HF 8	W520412-S437
j1	Hook	N2DB-19H382-AA
k1	Hook Strap	
l1	Winch Remote	LC3C-19H380-AA

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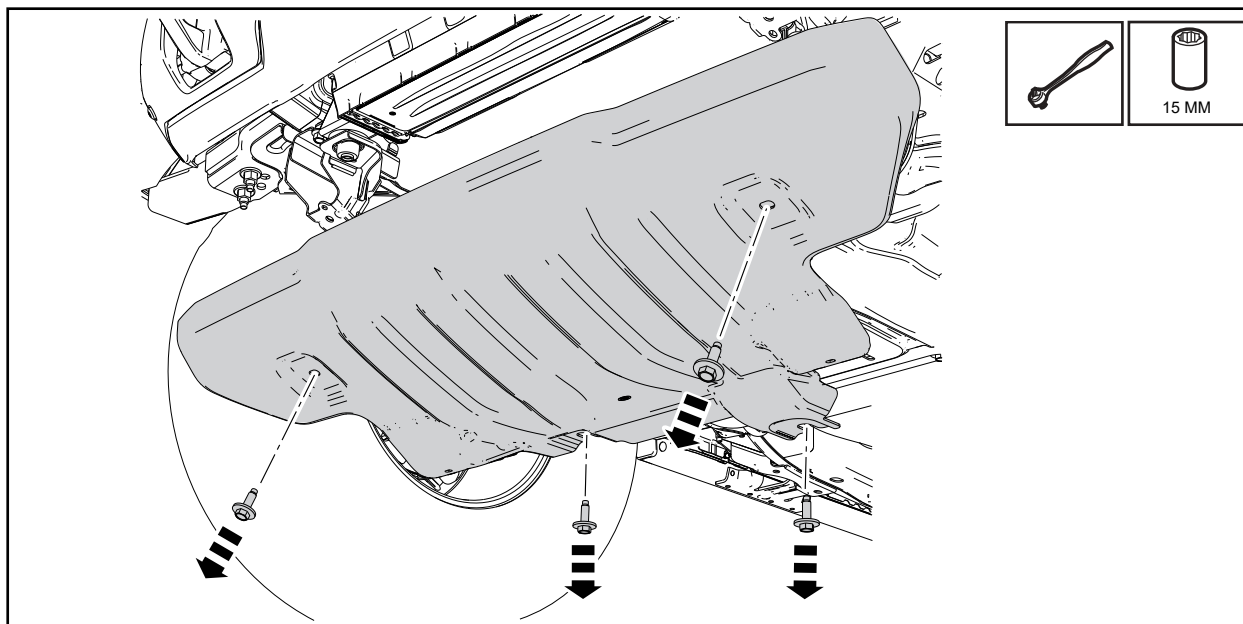
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INSTALLATION PROCEDURE - Winch Kit

IMPORTANT: After winch installation ensure the warning label is installed under the mounting plate. See illustration below. Restraint Control Module (RCM) programming is required after winch installation to ensure the vehicle systems function properly. Perform RCM reprogramming after the winch has been installed.

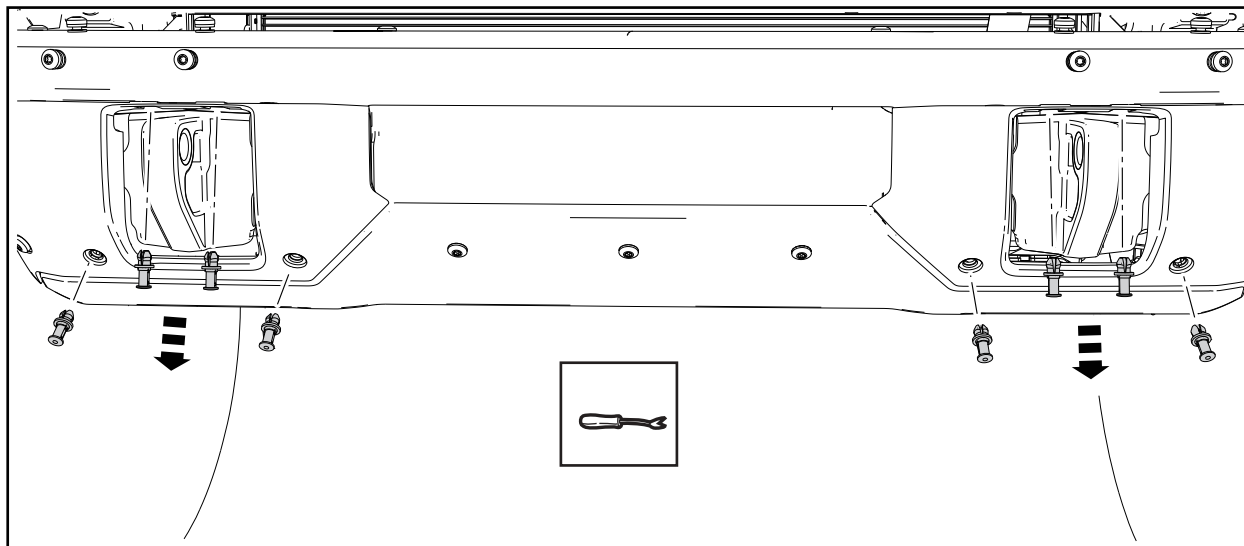


1. Remove the retainers and the skid plate.

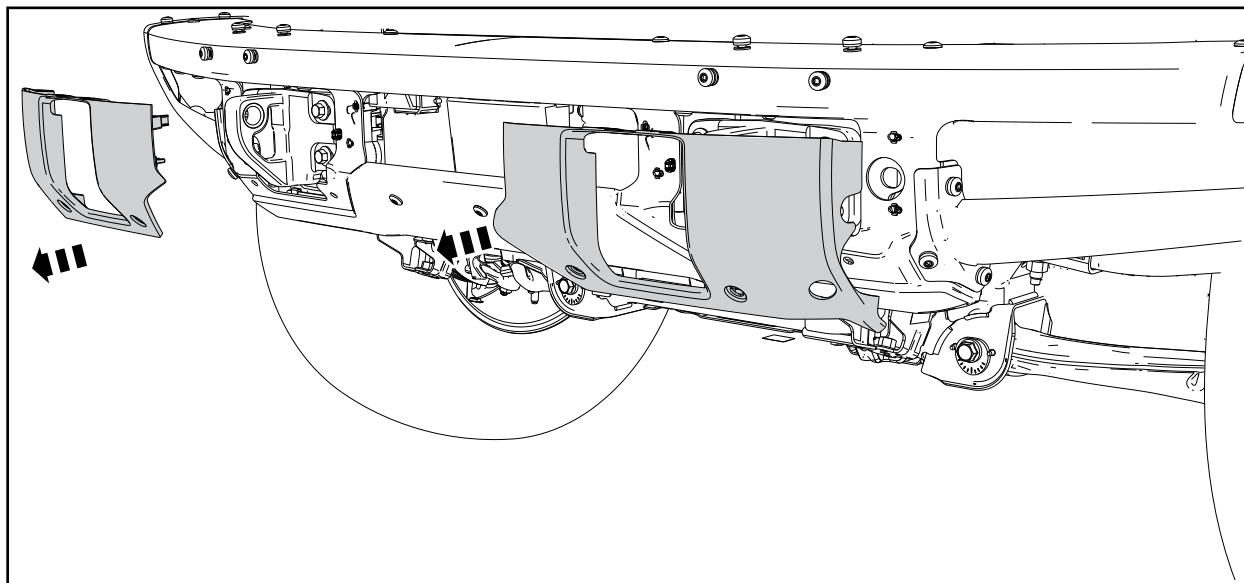


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2. Remove the push pin retainers.

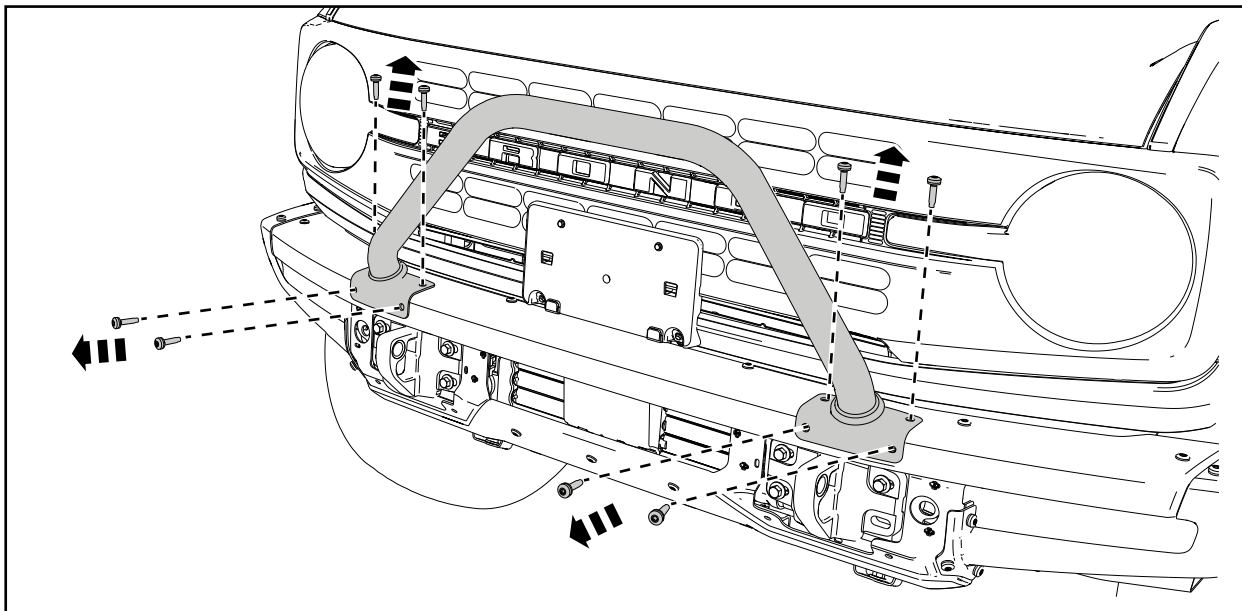


3. Remove the front bumper trim panel.



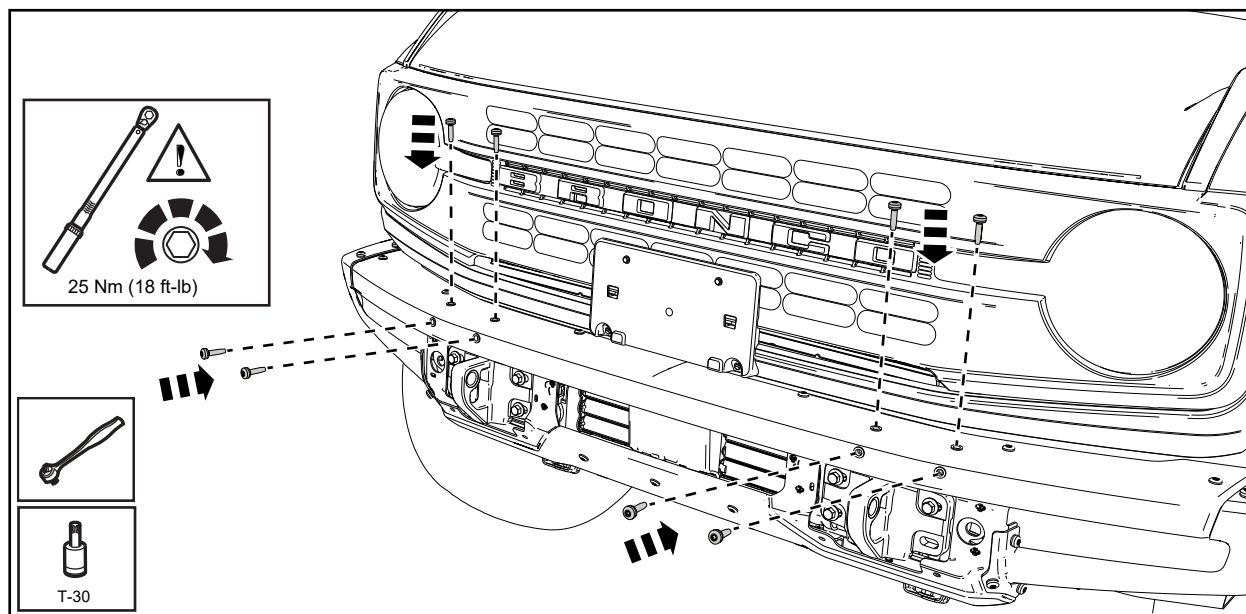
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4. If Equipped, remove the bolts and the safari bar.



5. Install the safari bar retainers into the front bumper.

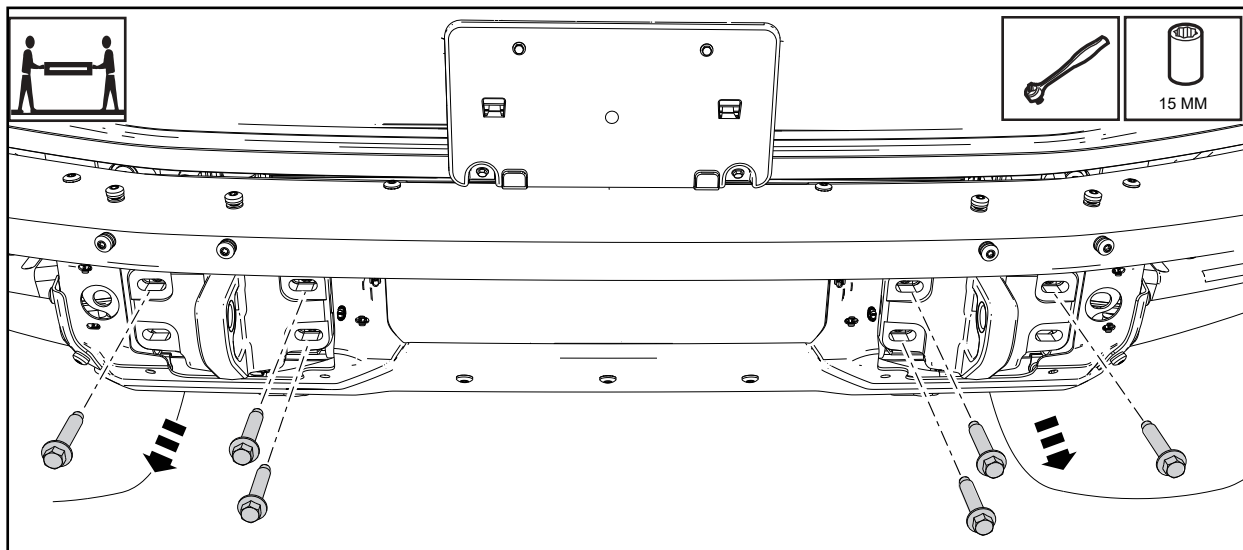
• Torque: 25 Nm (18 ft-lb)



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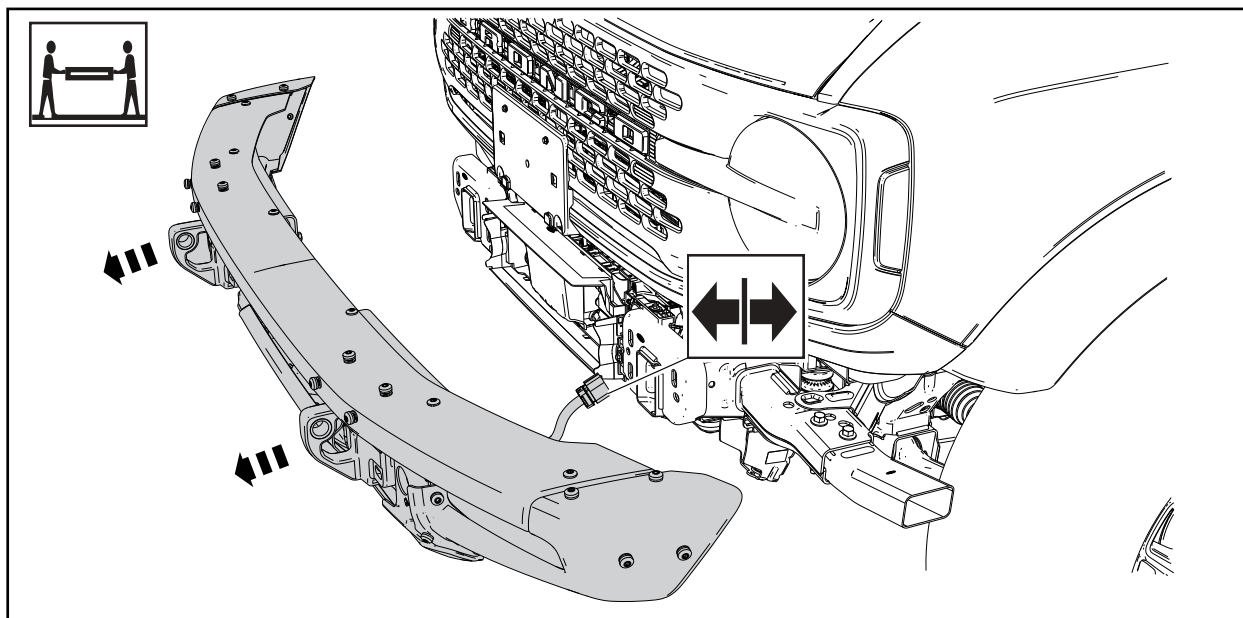
NOTE: Save front bumper bolts for installation.

6. Remove the front bumper bolts.



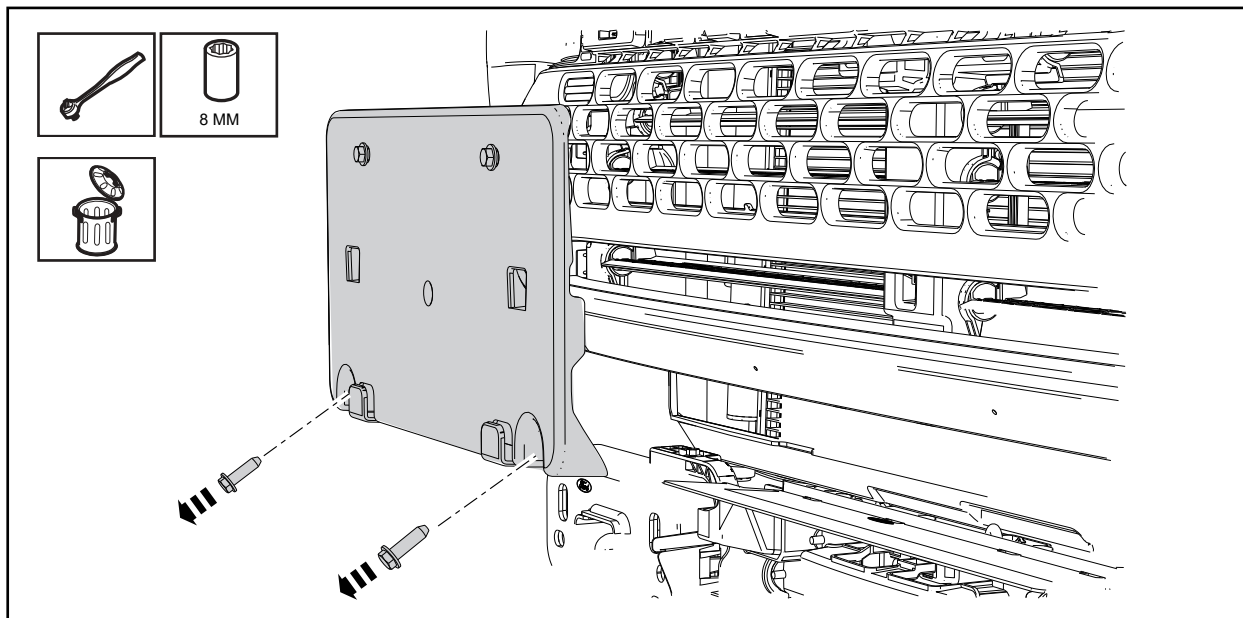
NOTE: If the bumper is equipped with a safari bar it must be removed before proceeding. The mounting bolts should be reinstalled and torqued to 18 lb.ft (25 Nm).

7. Remove the front bumper.

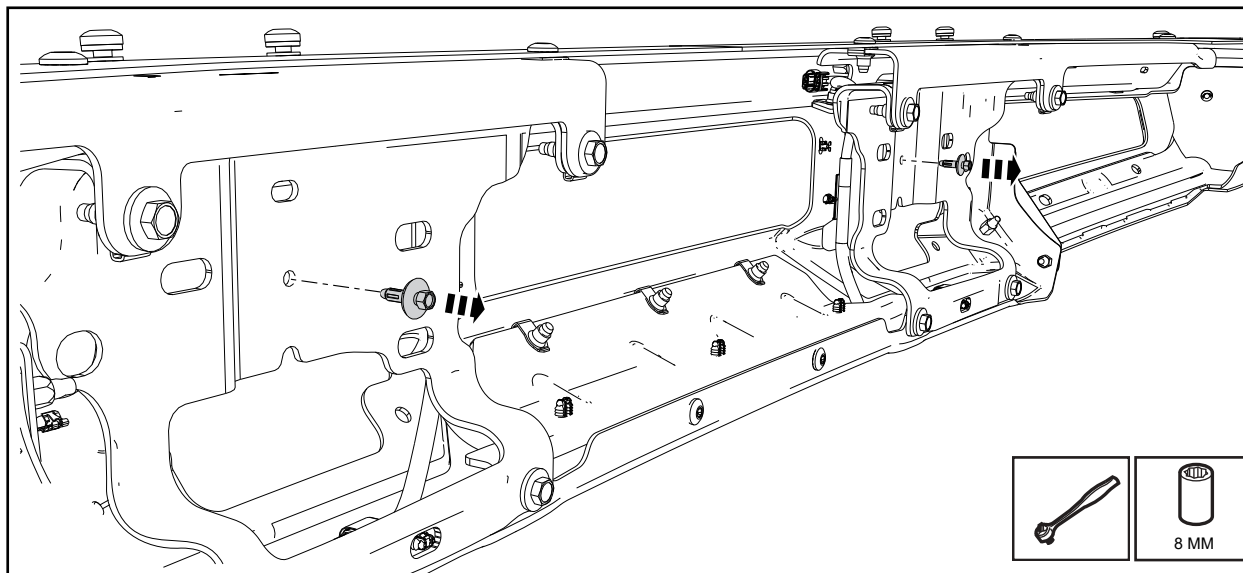


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8. Remove the retainers and the front license plate mounting bracket.

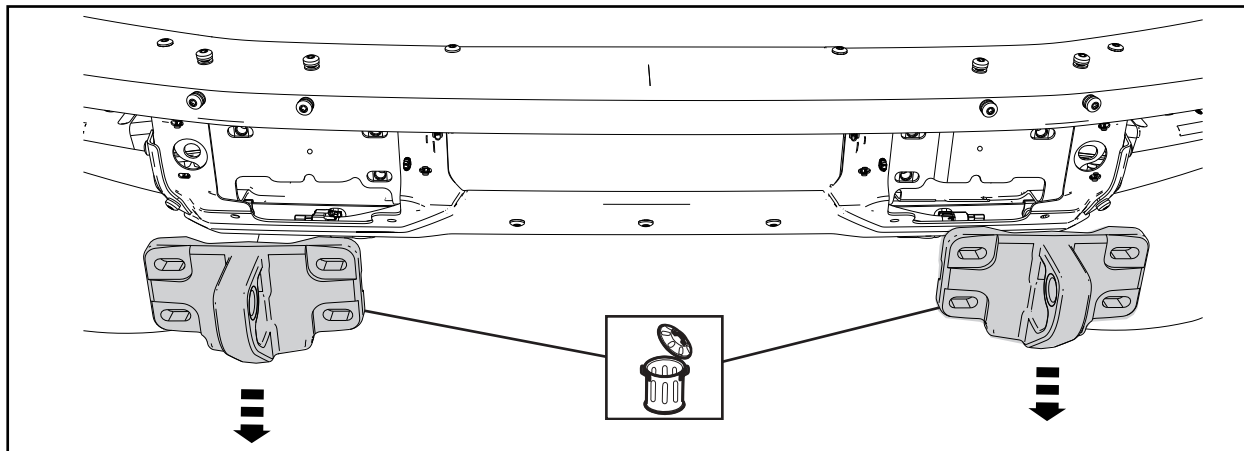


9. Remove the recovery hook holding bolts.

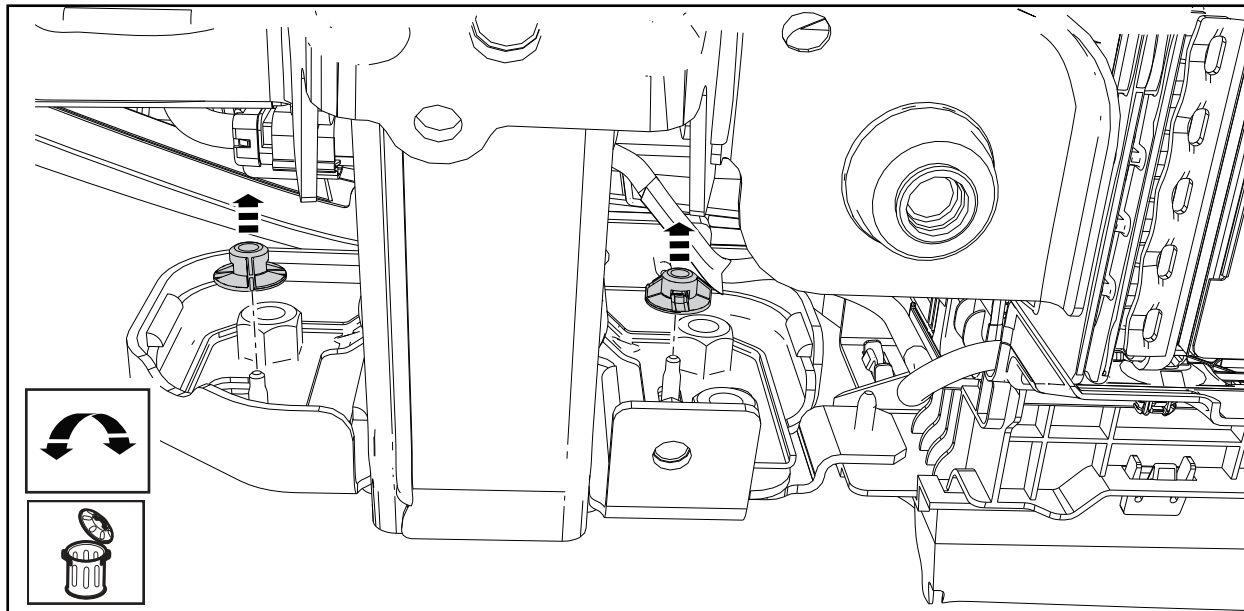


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10. Remove and discard the recovery hooks.

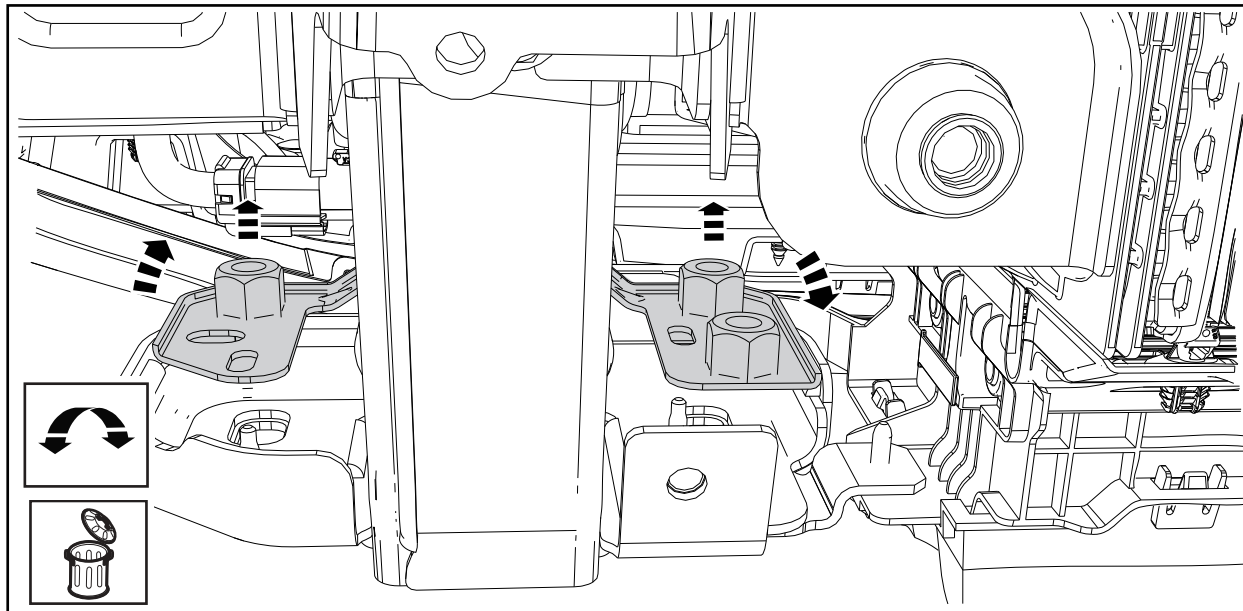


11. Remove and discard the plastic holding nuts on both sides of the vehicle.



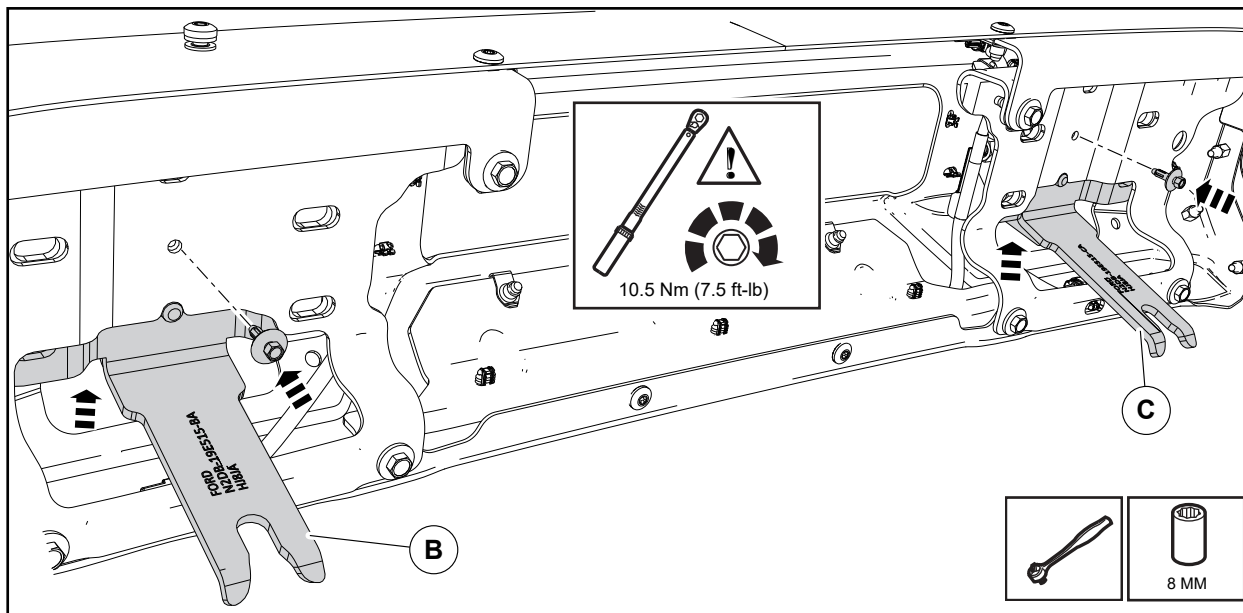
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12. Remove and discard the frame nut plate on both sides of the vehicle.



13. Install the two clevis brackets to the bumper.

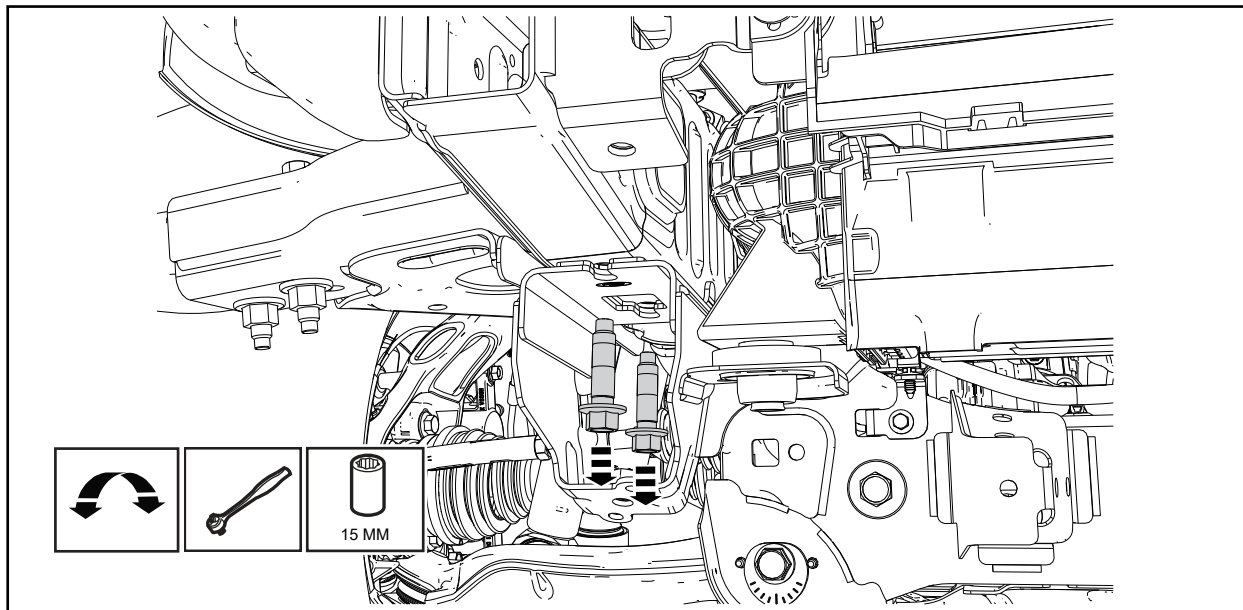
• Torque: 10.5 Nm (7.5 ft-lb)



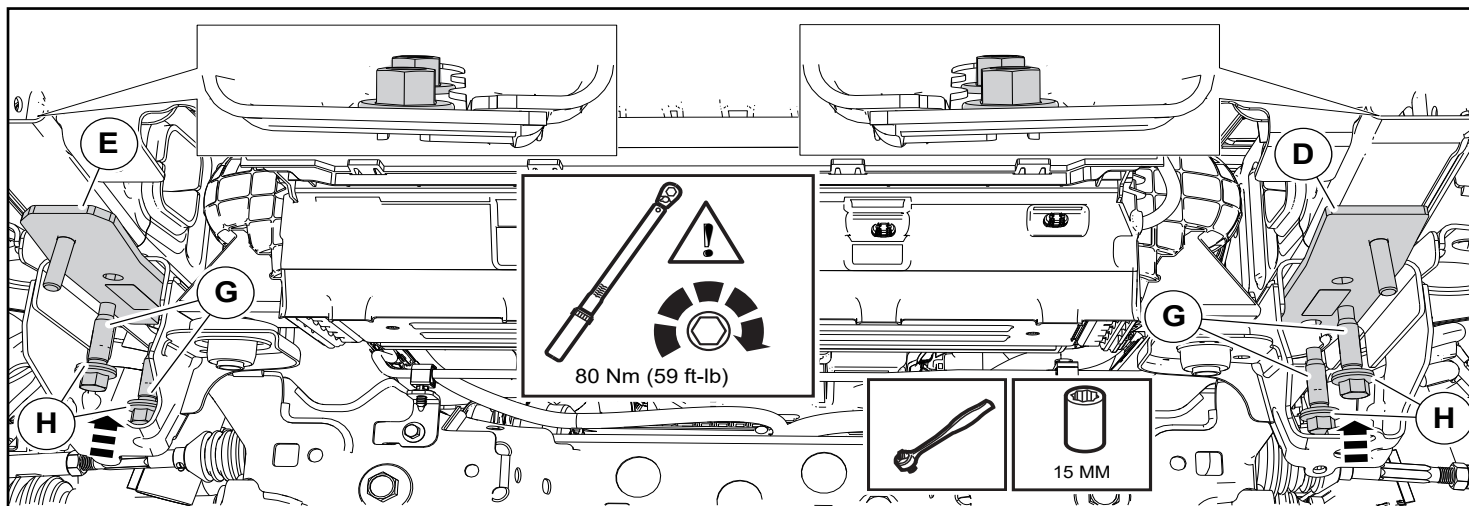
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NOTE: Save frame bolts for installation.

14. Remove the two frame bolts. Perform this step on both sides.

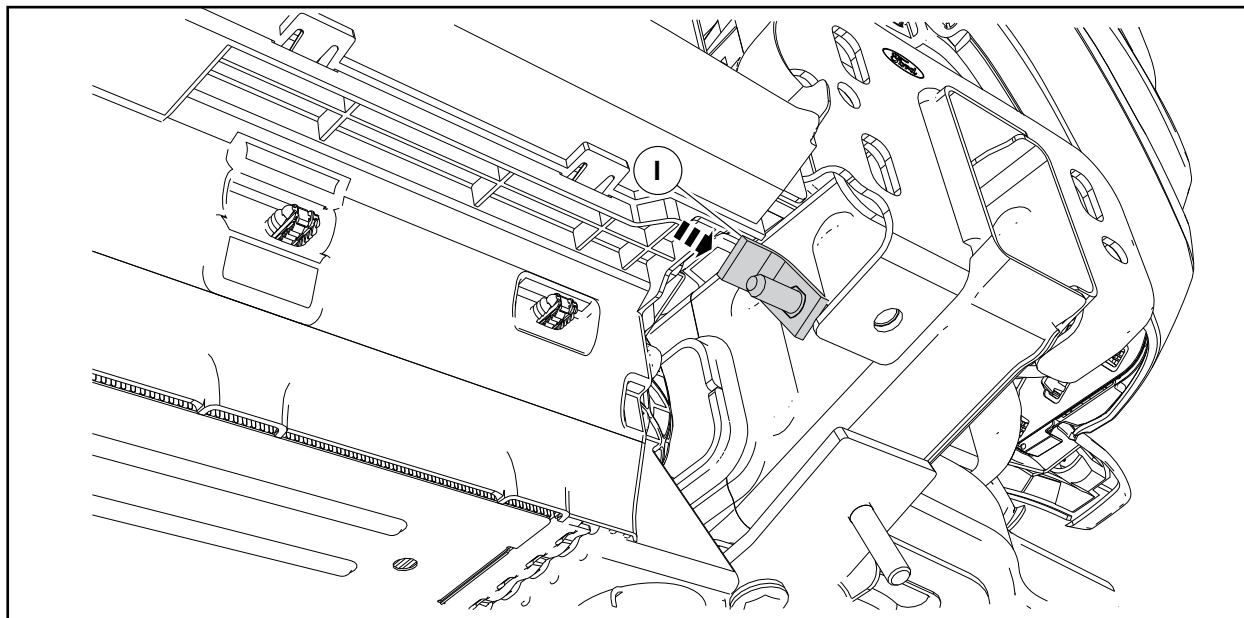


15. Install the winch CAC bracket and bolts to the frame.

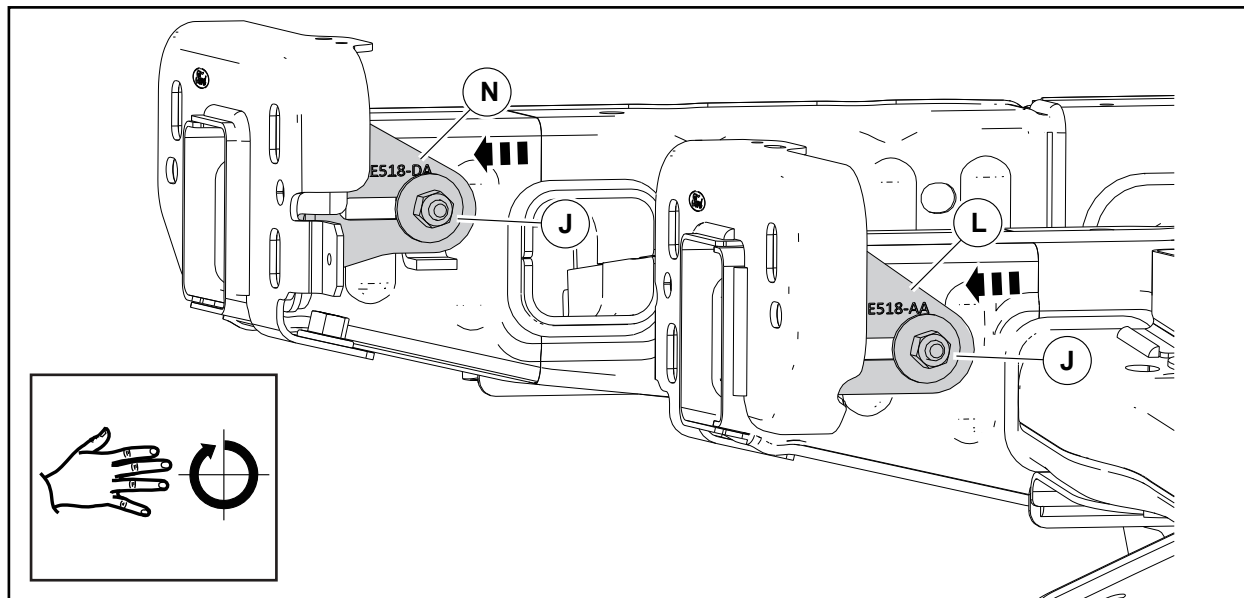


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16. Install the shoulder bolt into the frame rail. Perform this step on both sides of the vehicle.

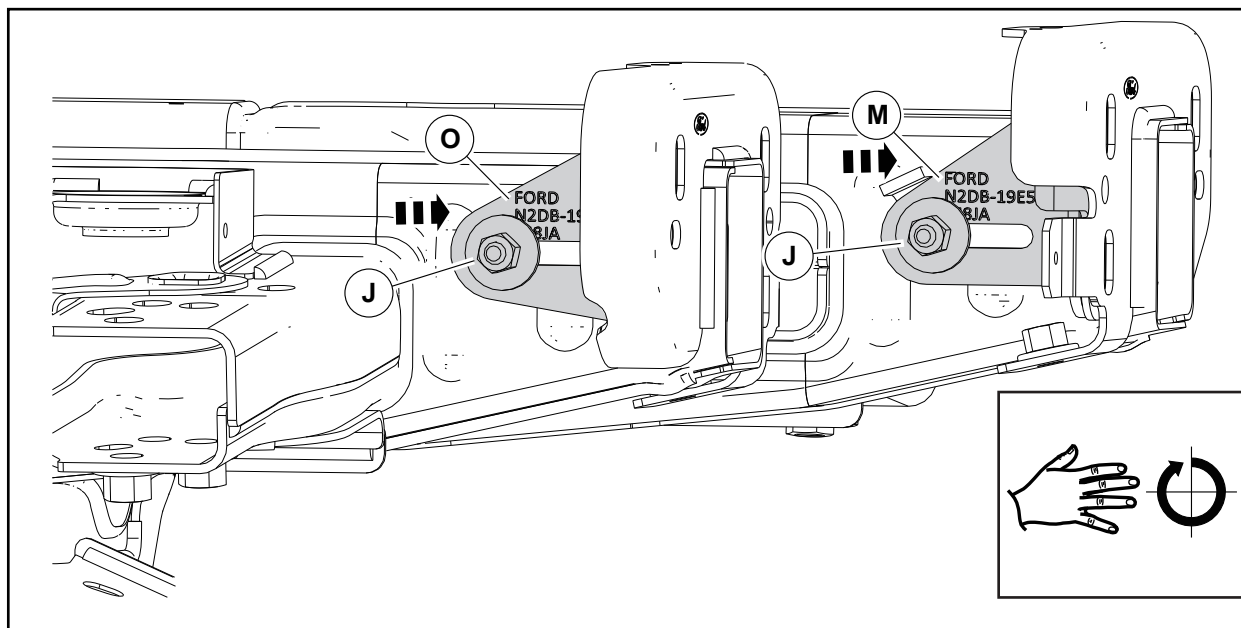


17. Install the left hand inner and outer bracket to the frame rail. Hand tighten the nuts at this time.

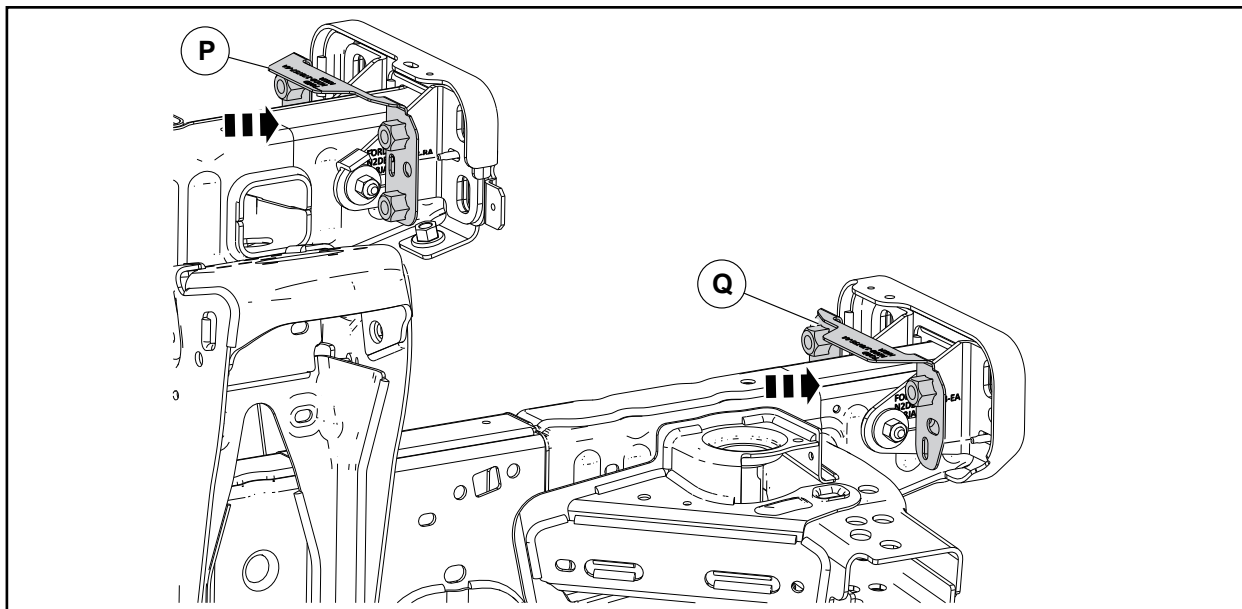


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18. Install the right hand inner and outer bracket to the frame rail. Hand tighten the nuts at this time.



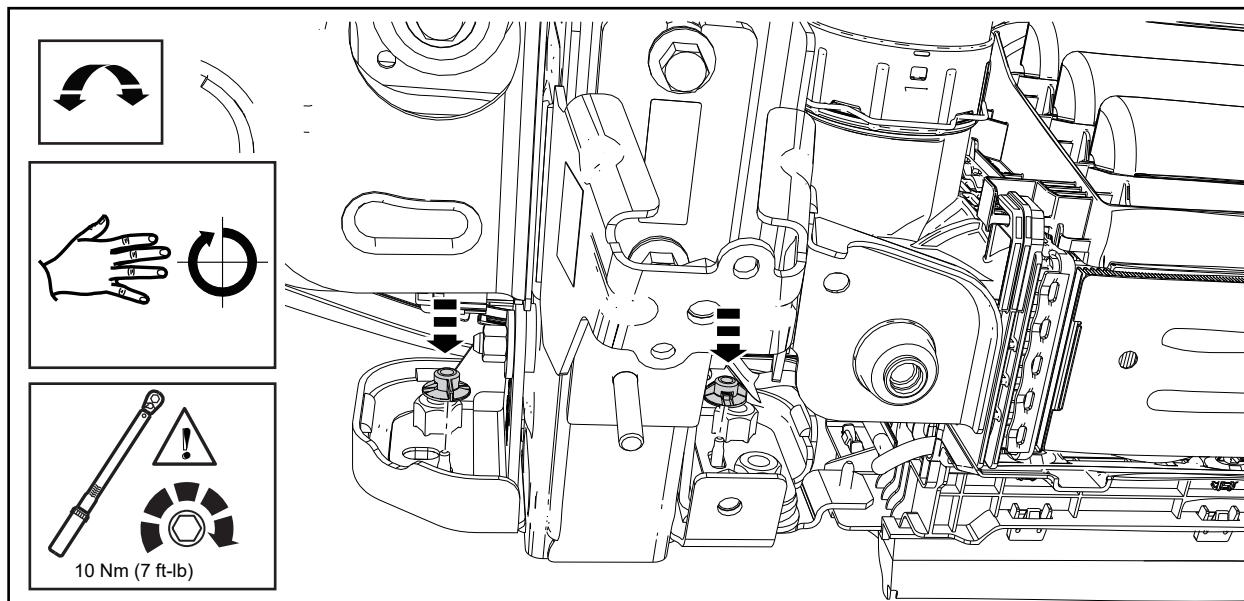
19. Install the frame rail bracket.



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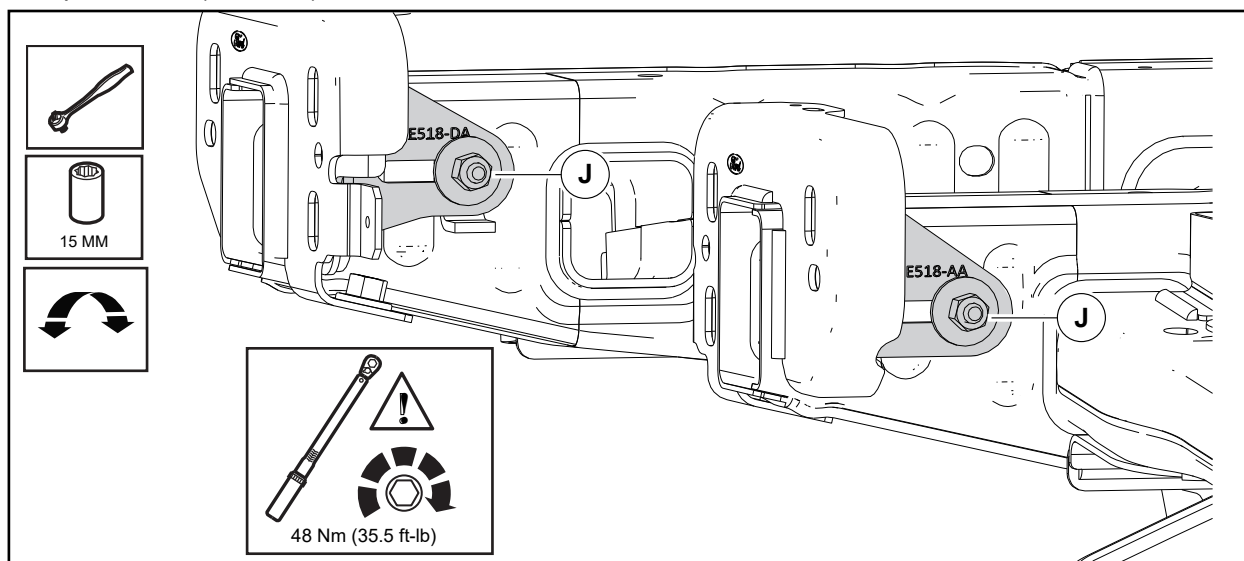
20. Starting by hand, install the plastic holding nuts. Perform this step on both sides.

- Torque: 10 Nm (7 ft-lb)



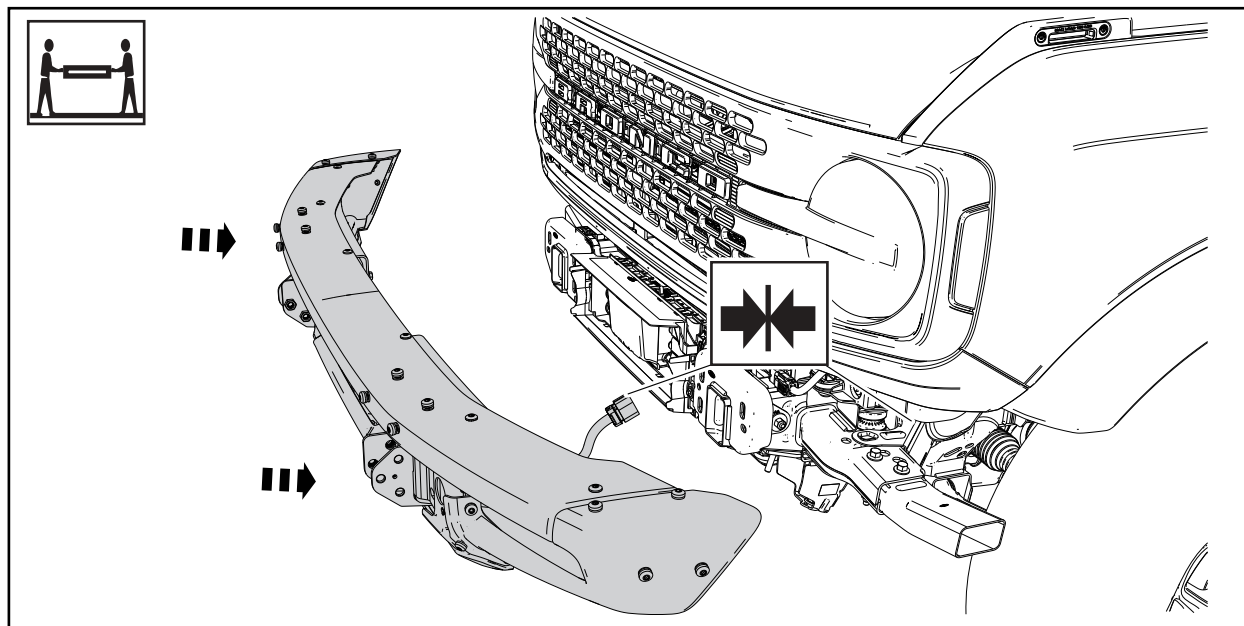
21. Tighten all 4 inner and outer brackets nuts.

- Torque: 48 Nm (35.5 ft-lb)



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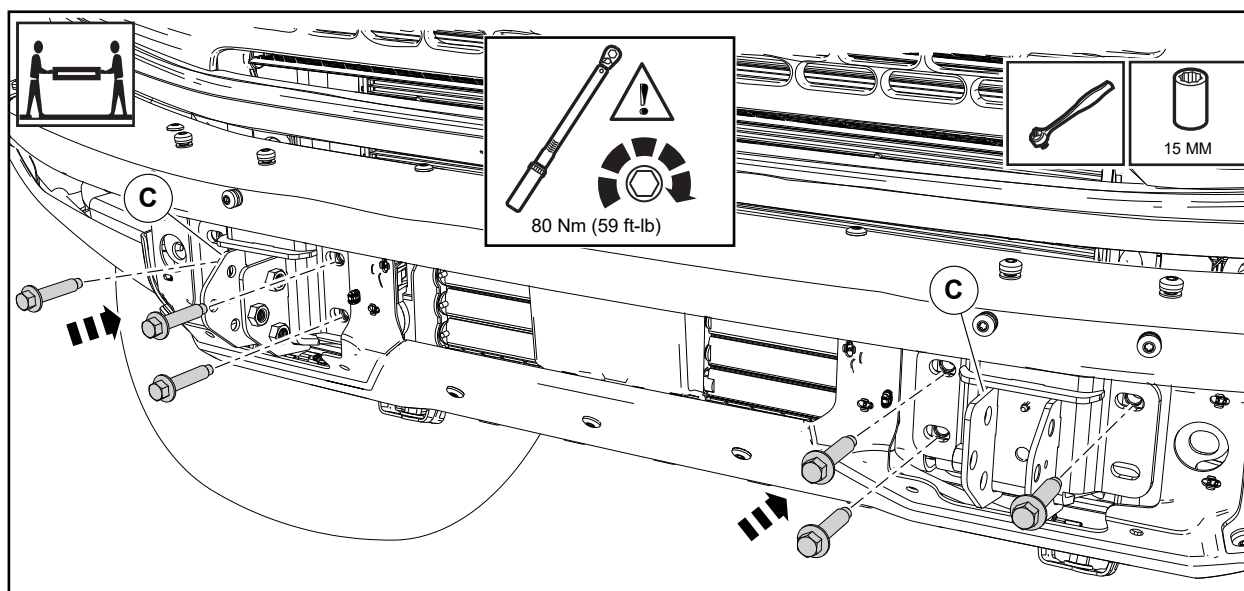
22. Install the front bumper and connect the electrical connector.



NOTE: Bolts saved from step 6.

23. Install the front bumper retainers.

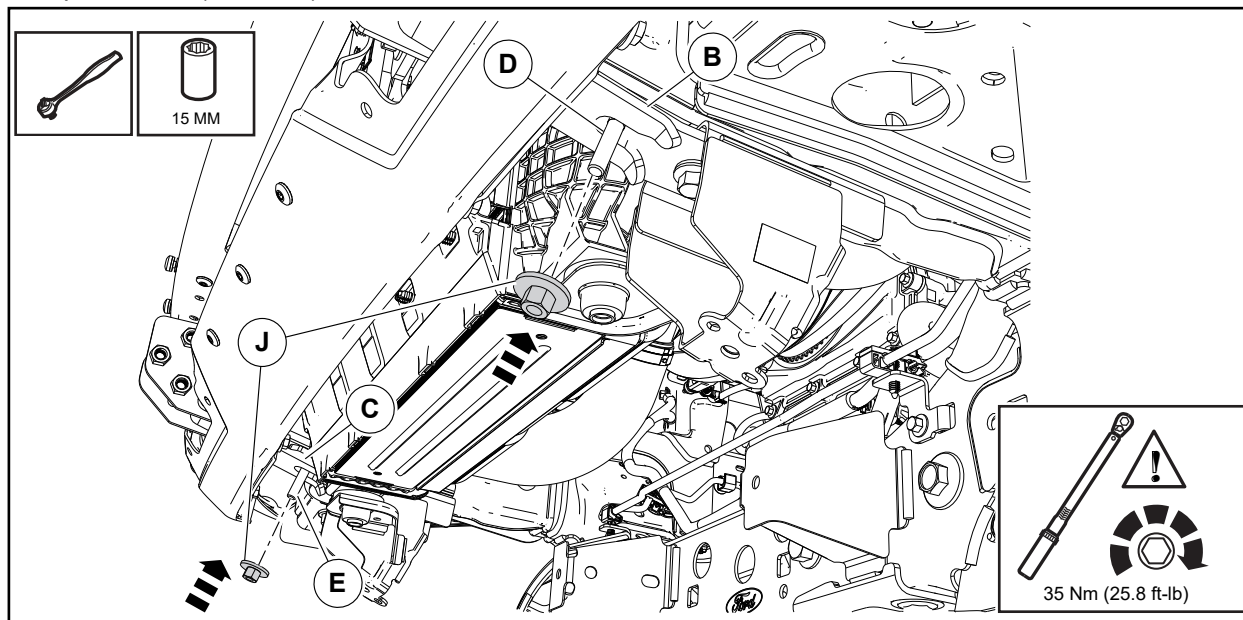
- Torque: 80 Nm (59 ft-lb)



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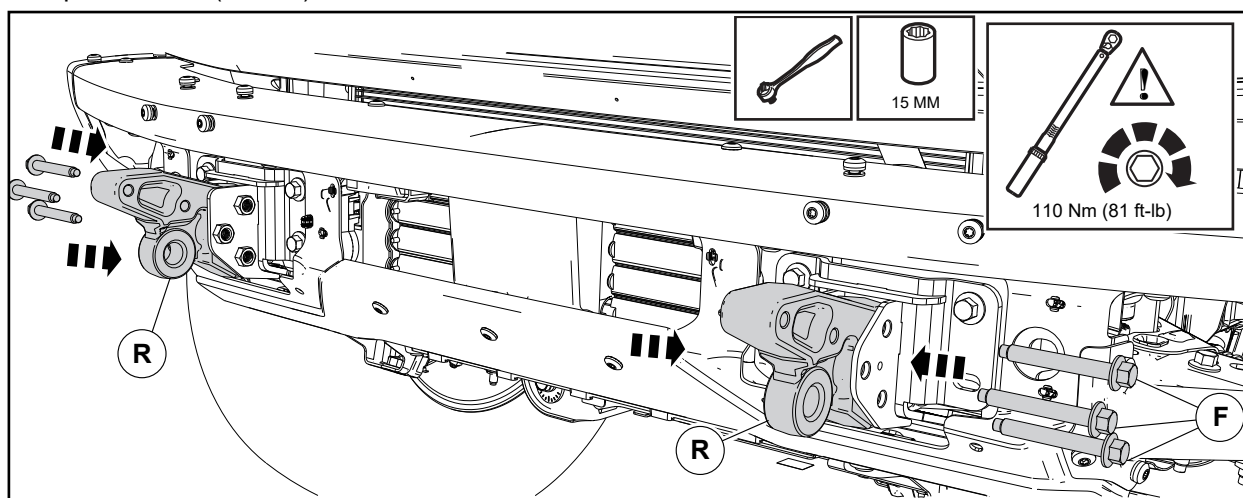
24. Install the clevis bracket nuts.

- Torque: 35 Nm (25.8 ft-lb)



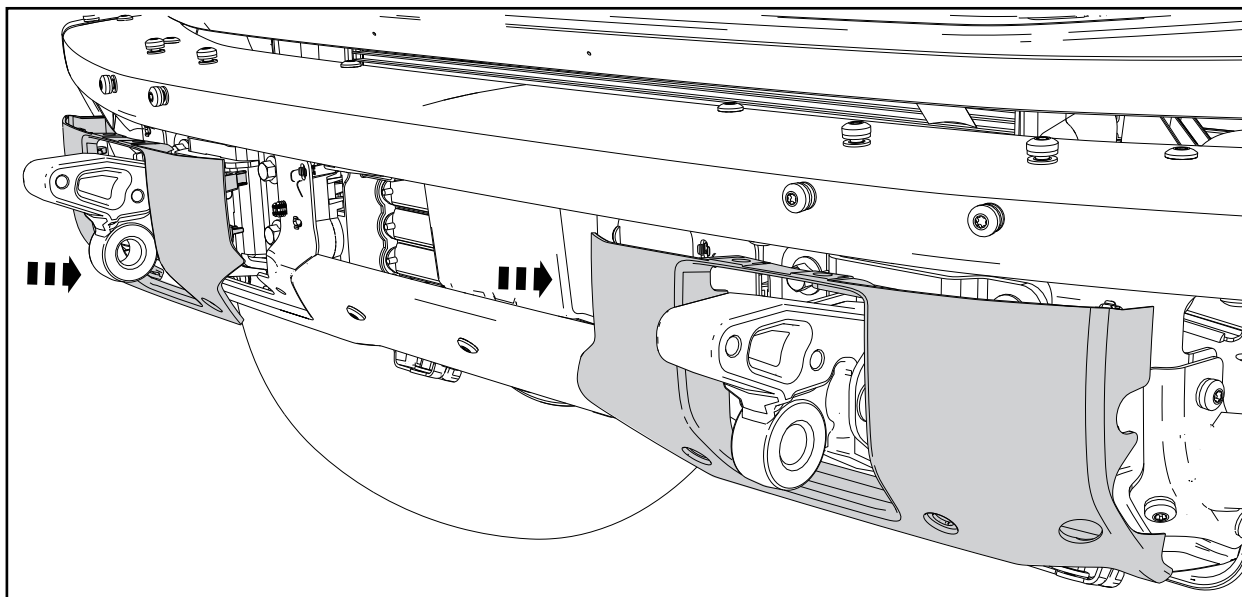
25. Install the recover forging into the clevis bracket.

- Torque: 110 Nm (81 ft-lb)

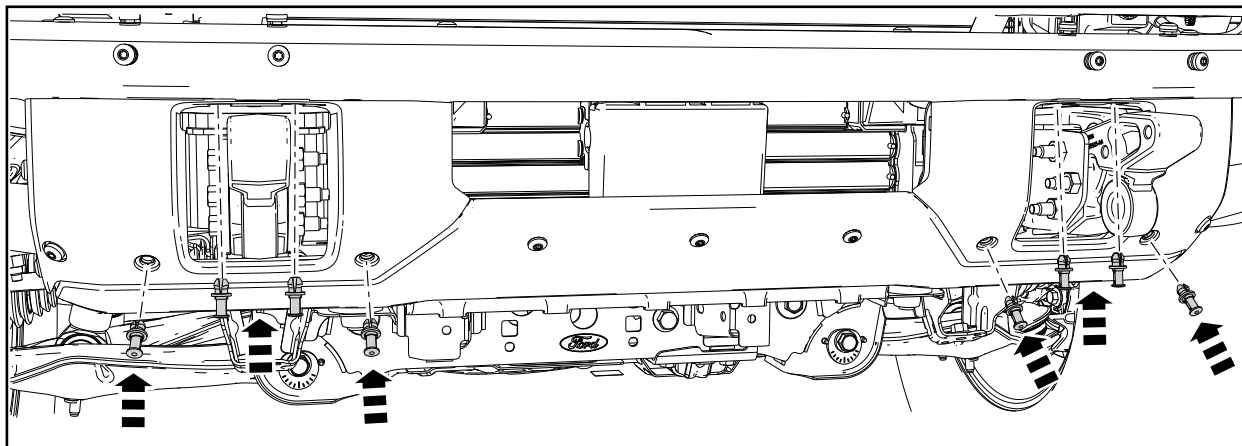


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26. Install the front bumper trim panels.



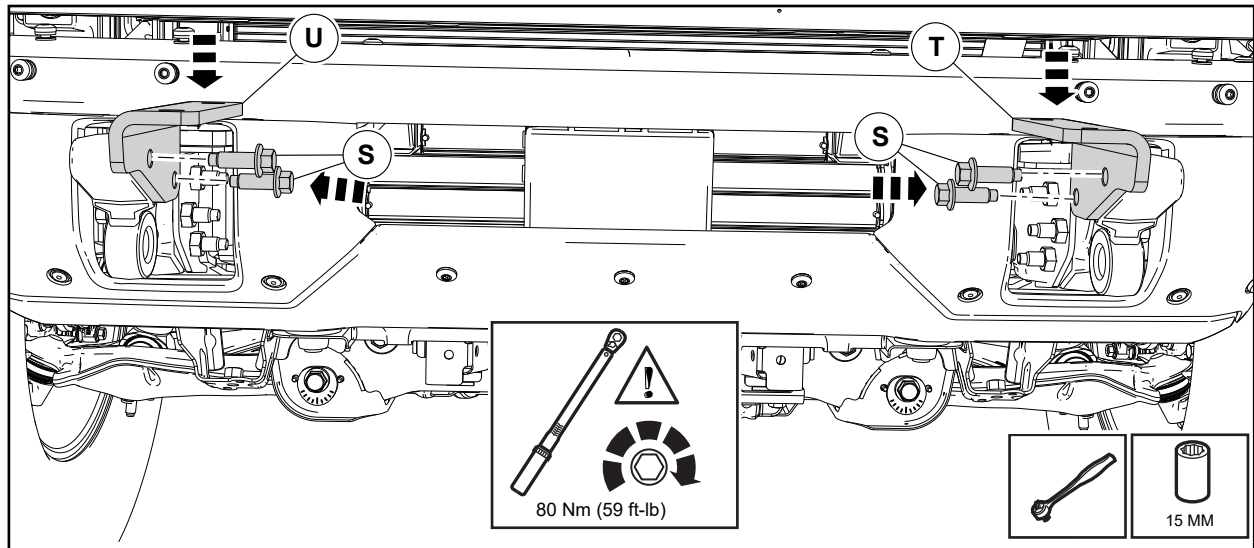
27. Install the front bumper trim panel push pins.



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28. Install the recovery forging mounting bracket.

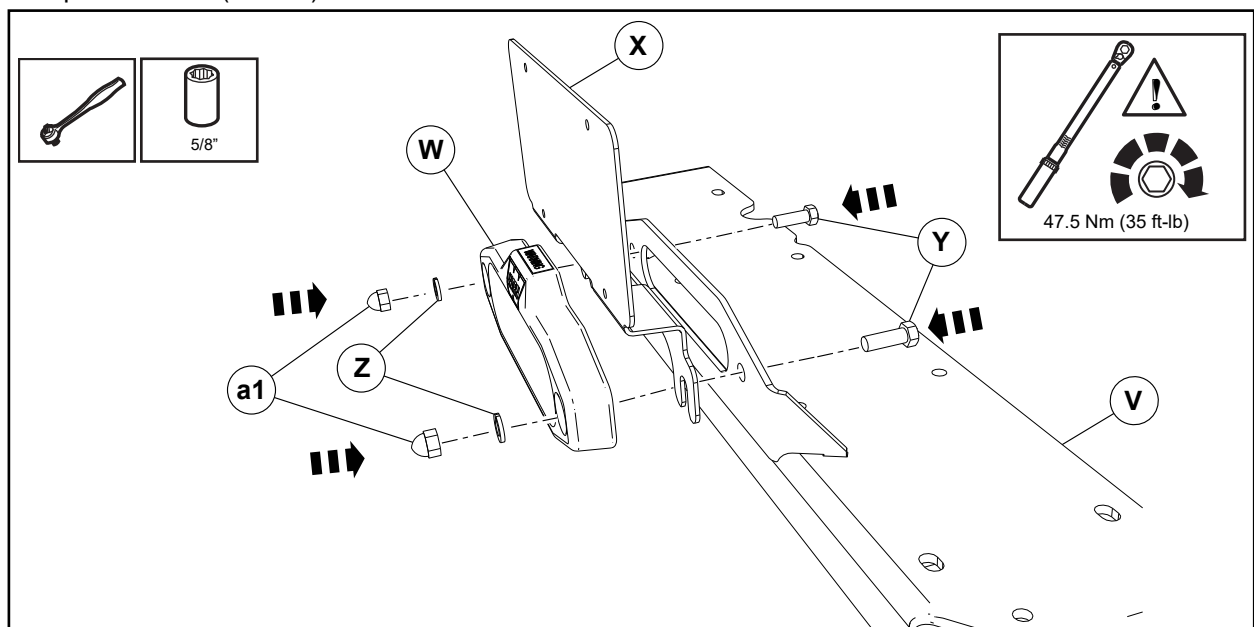
- Torque: 80 Nm (59 ft-lb)



NOTE: Installation of license plate bracket is optional depending on local regulations.

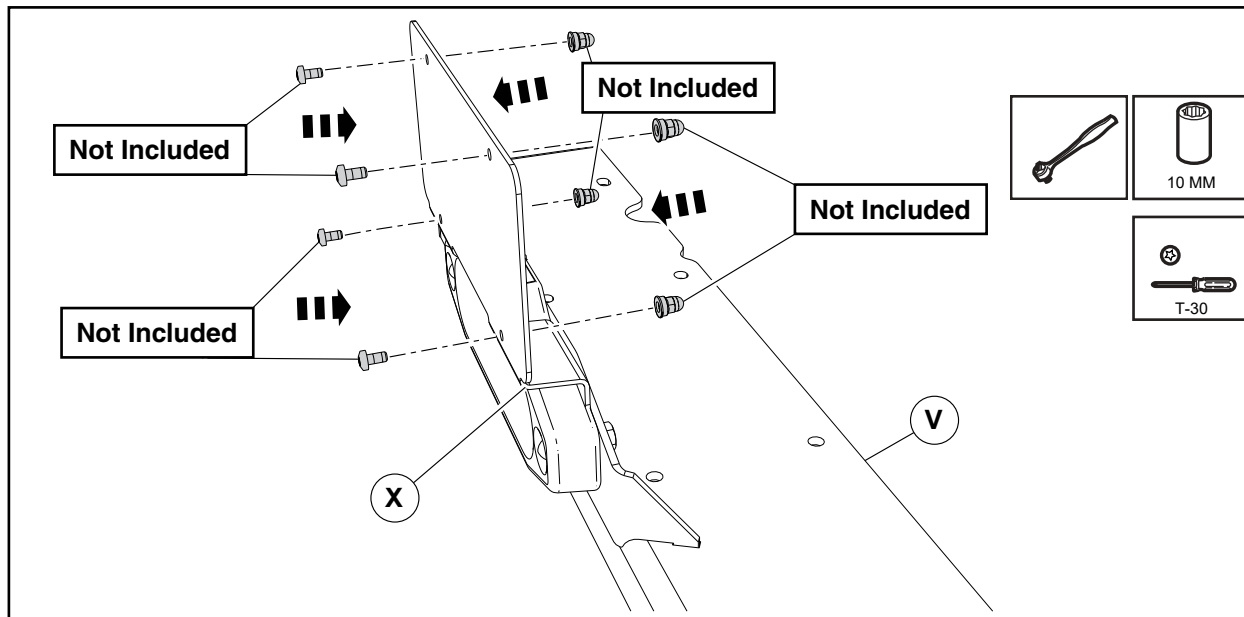
29. Install the fairlead to the winch plate.

- Torque: 47.5 Nm (35 ft-lb)

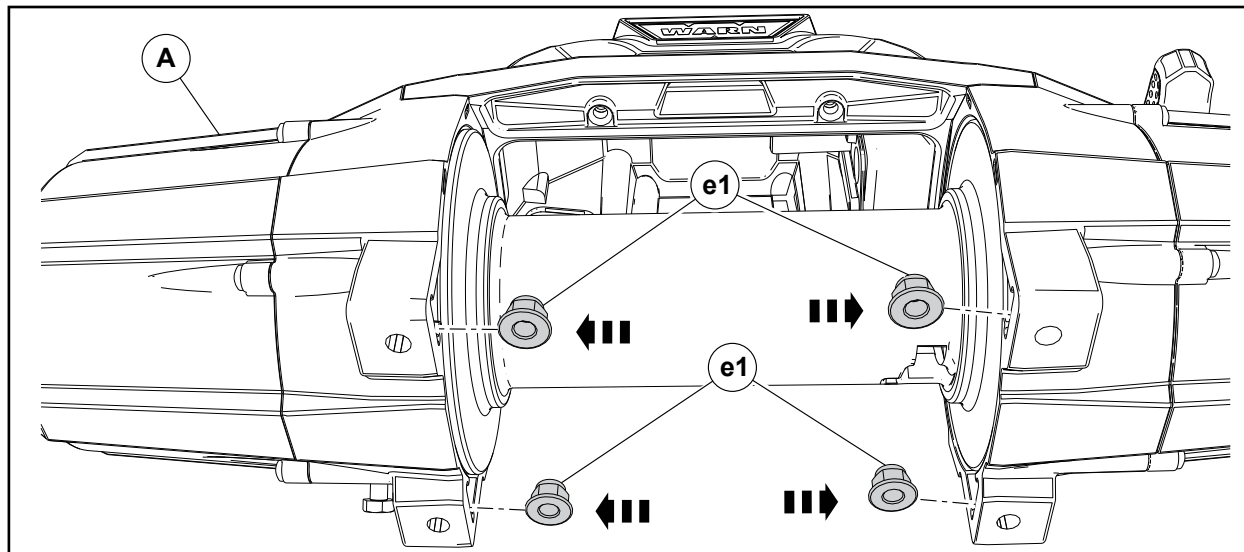


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30. If equipped, install the license plate to license plate mounting bracket retainers.



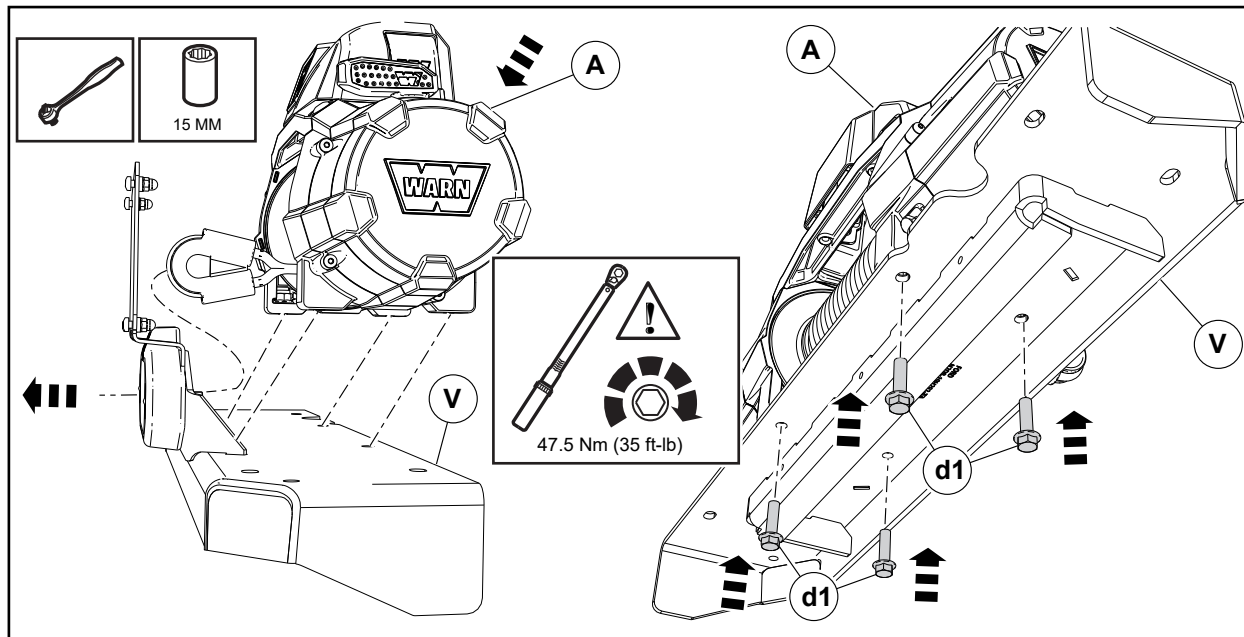
31. Install the winch mounting nuts into the winch housing slots.



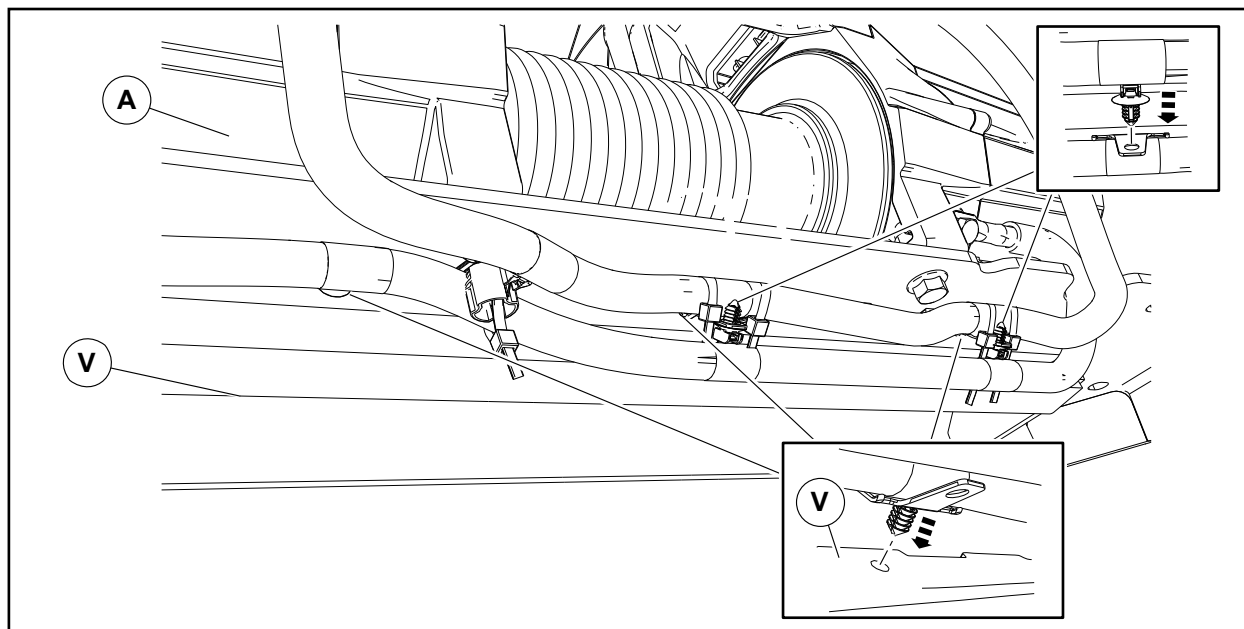
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32. Route the winch rope through the fairlead and install the winch to the winch plate.

• Torque: 47.5 Nm (35 ft-lb)

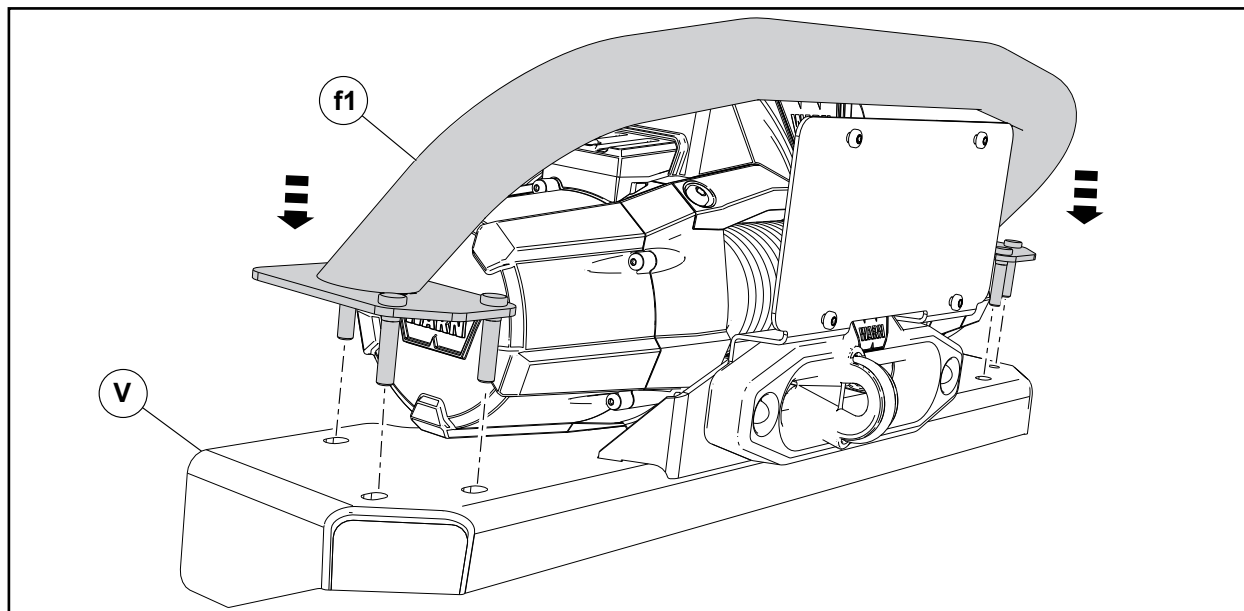


33. Engage the winch wire harness push pin retainers into the winch plate.



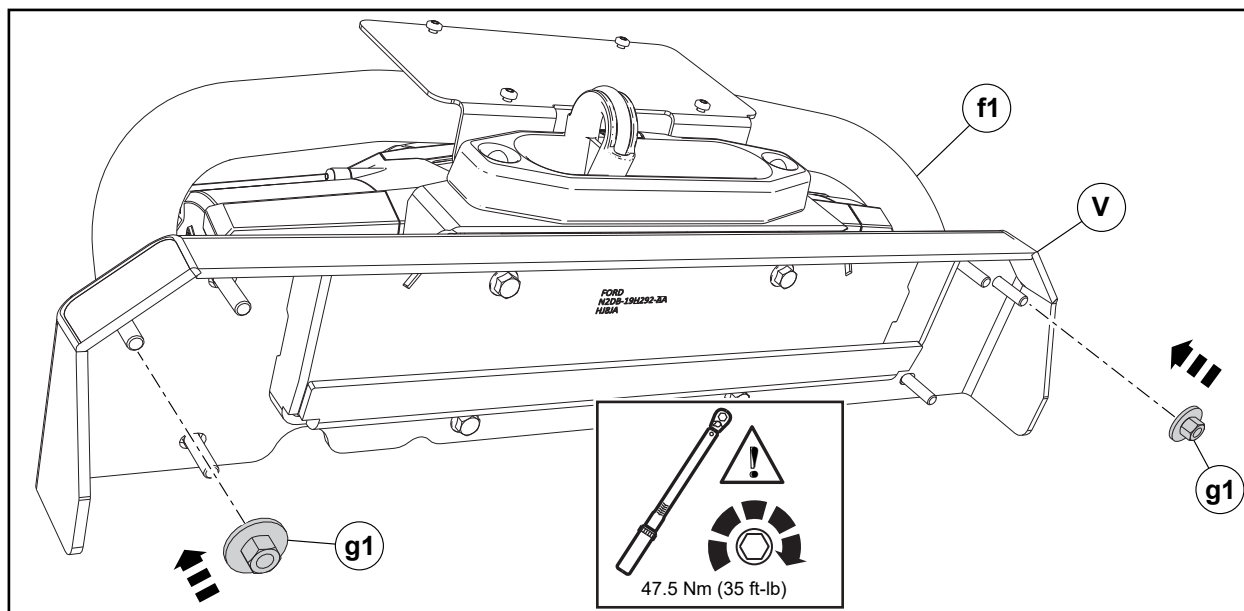
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34. Install the brush bar to the winch plate.



35. Install the brush bar outboard nut.

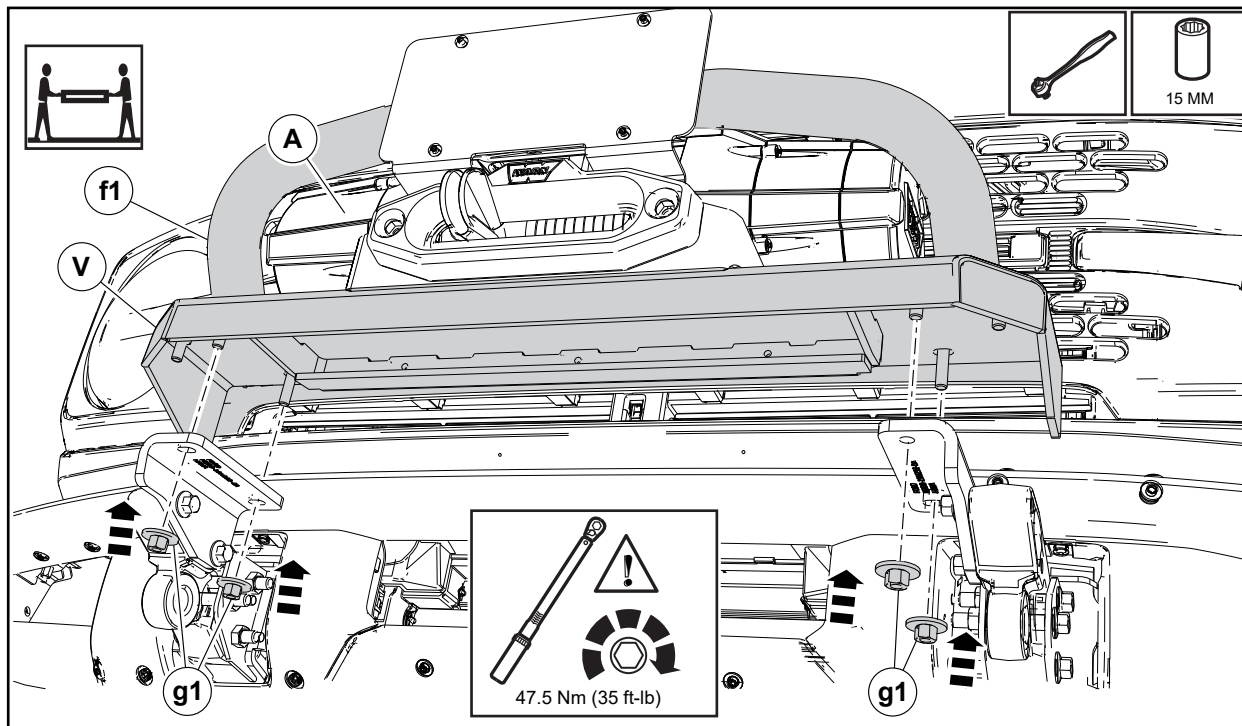
• Torque: 47.5 Nm (35 ft-lb)



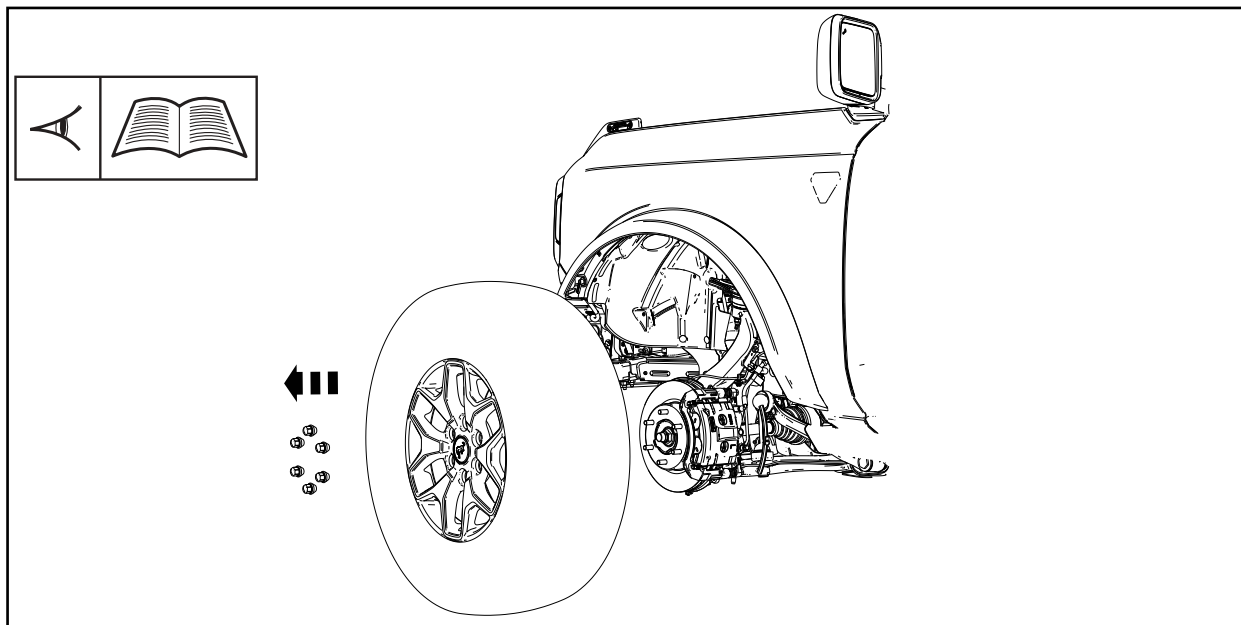
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36. Install the winch assembly to the recovery forging mounting brackets.

- Torque: 47.5 Nm (35 ft-lb)

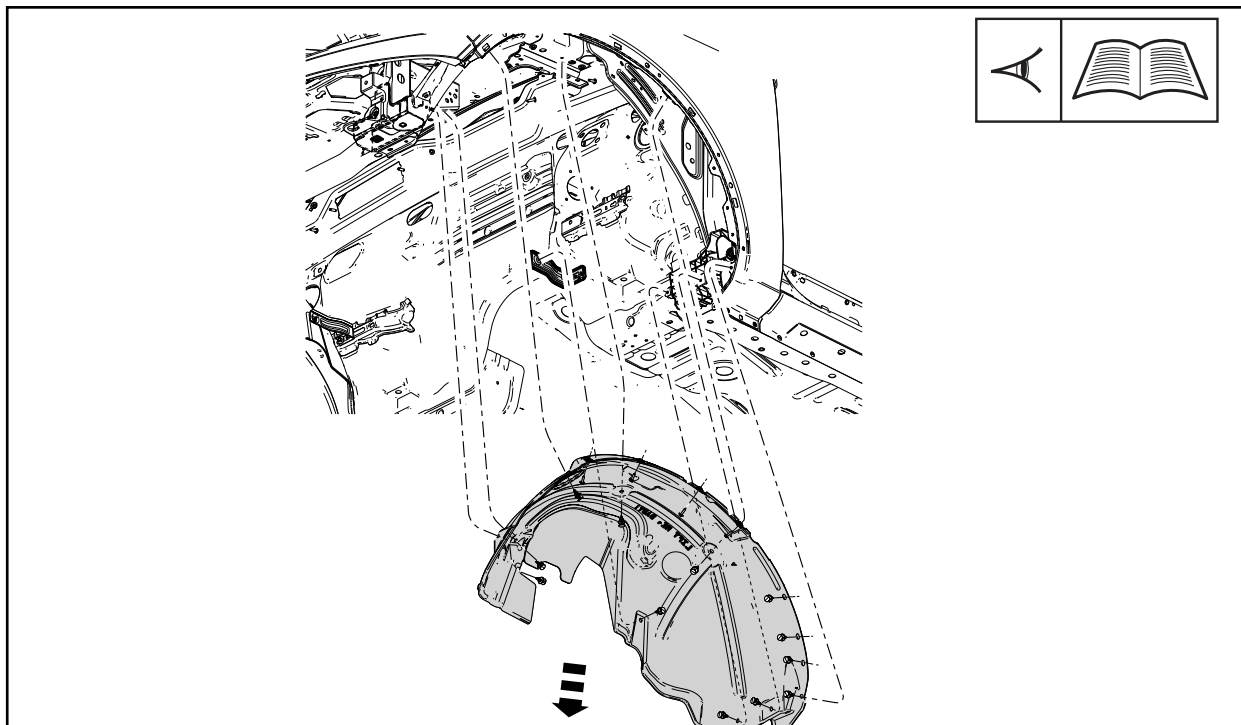


37. Remove the lug nuts and the left hand tire.

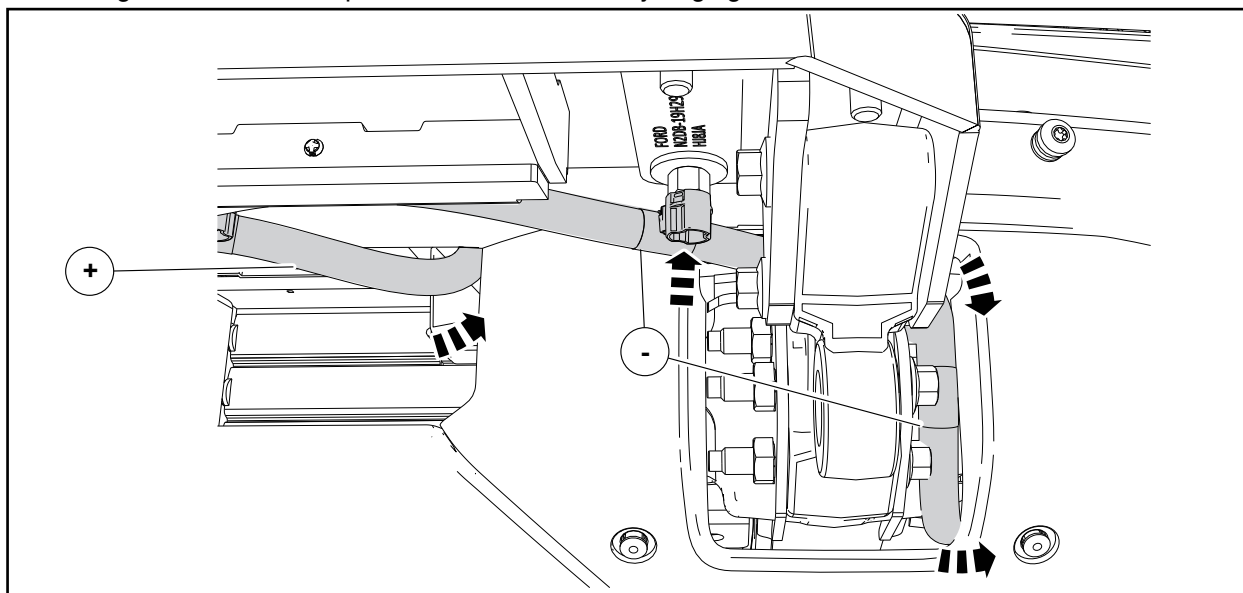


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38. Remove the retainers and the left hand wheel well splash shield.

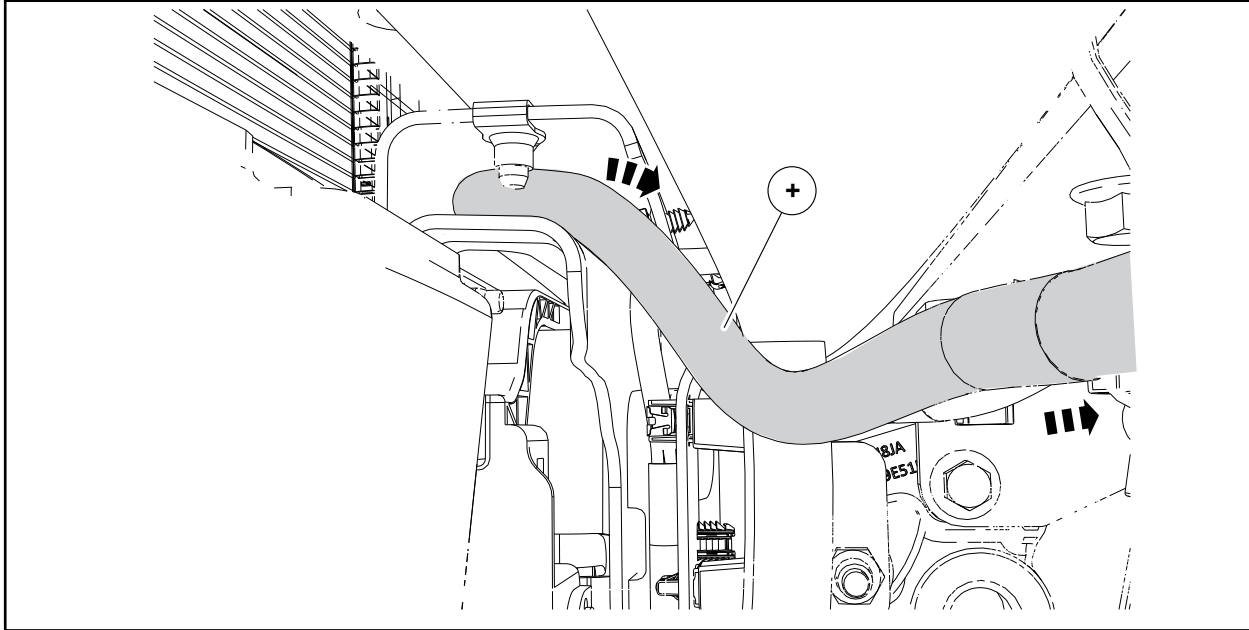


39. Route the positive battery cable under the winch plate and through the left hand side of the center bumper opening. Route the negative cable over top of the left hand recovery forging.



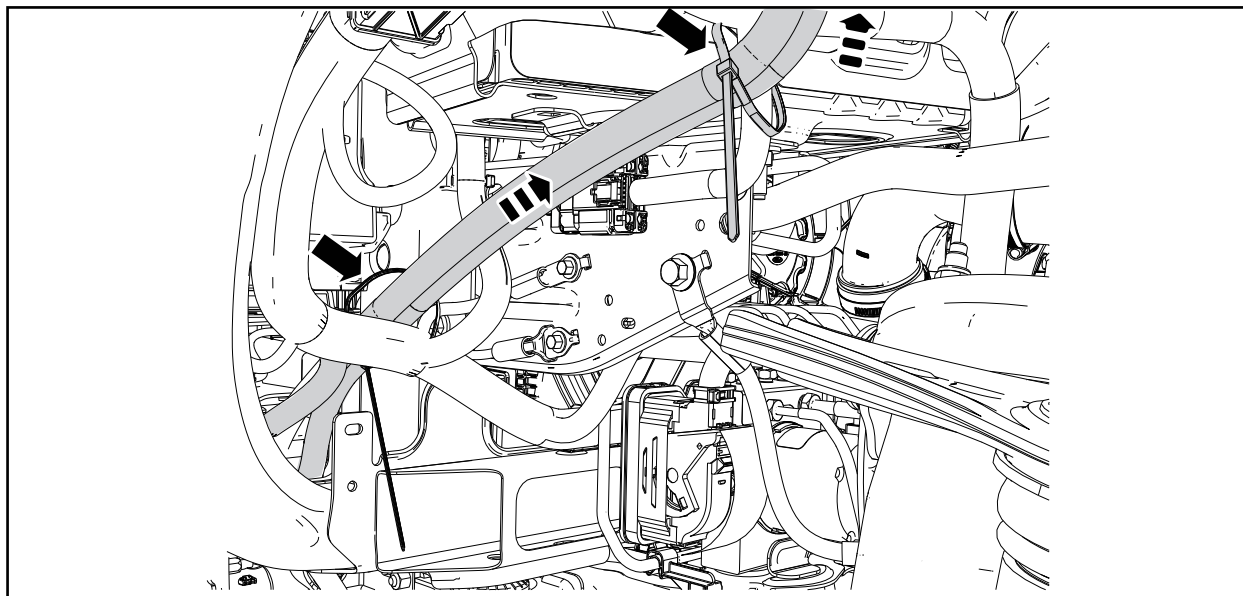
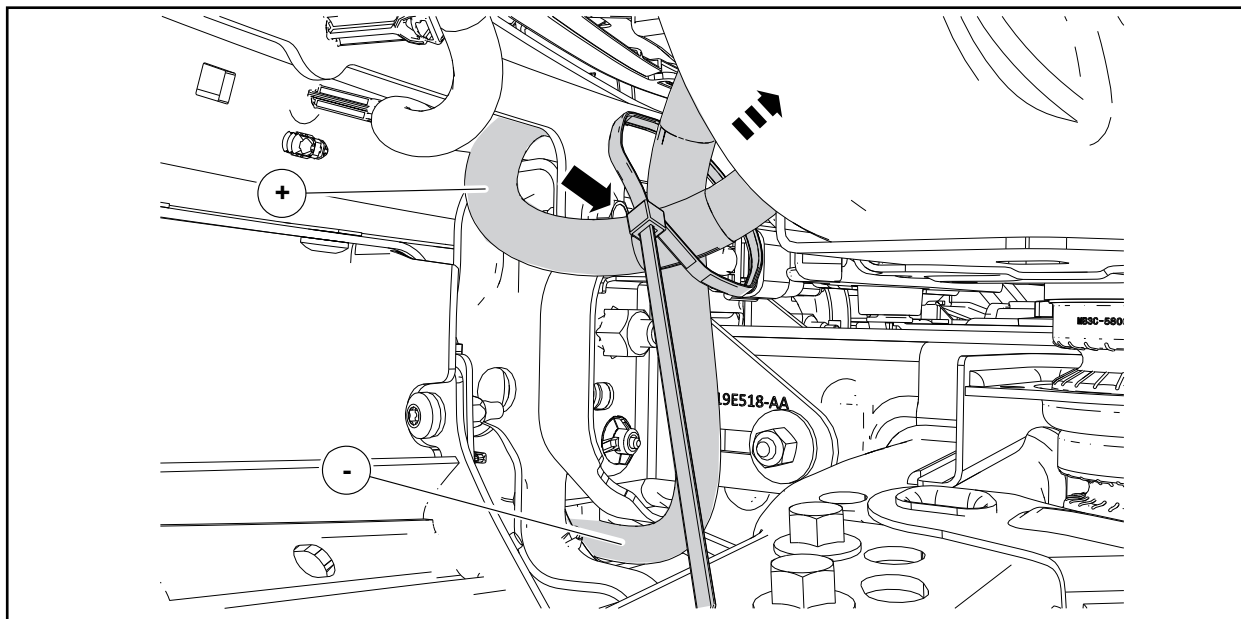
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40. Route the positive cable through the frame towards the left hand side of the vehicle.



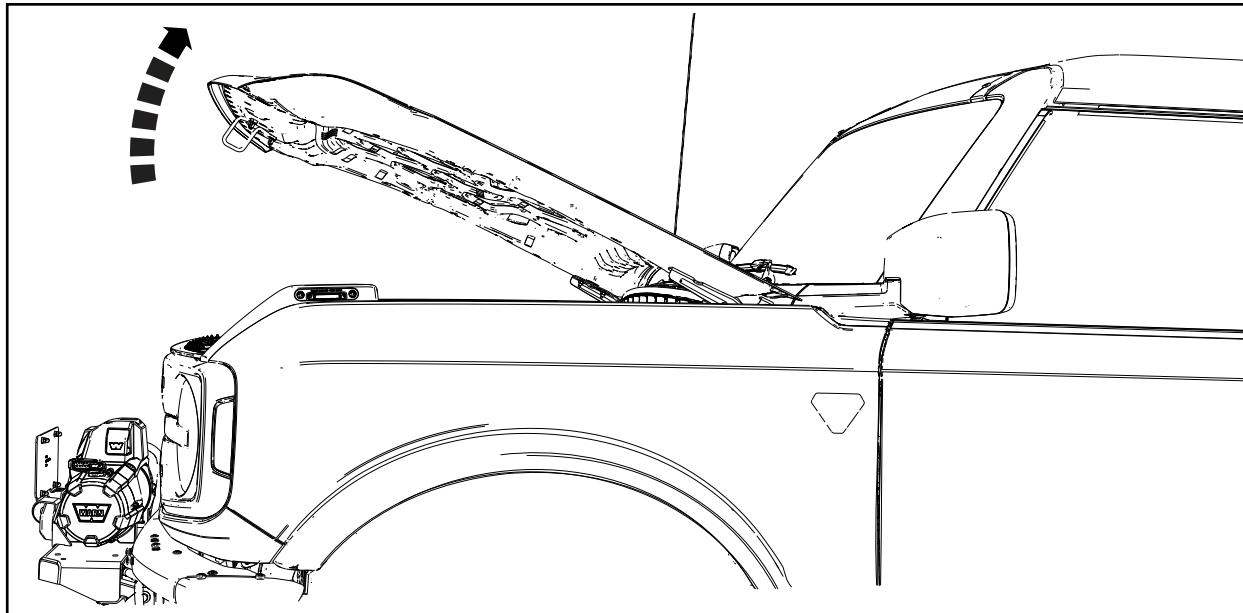
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41. Route the positive and negative cables upwards towards the battery. Secure the cables to the existing wiring harness using tie straps.



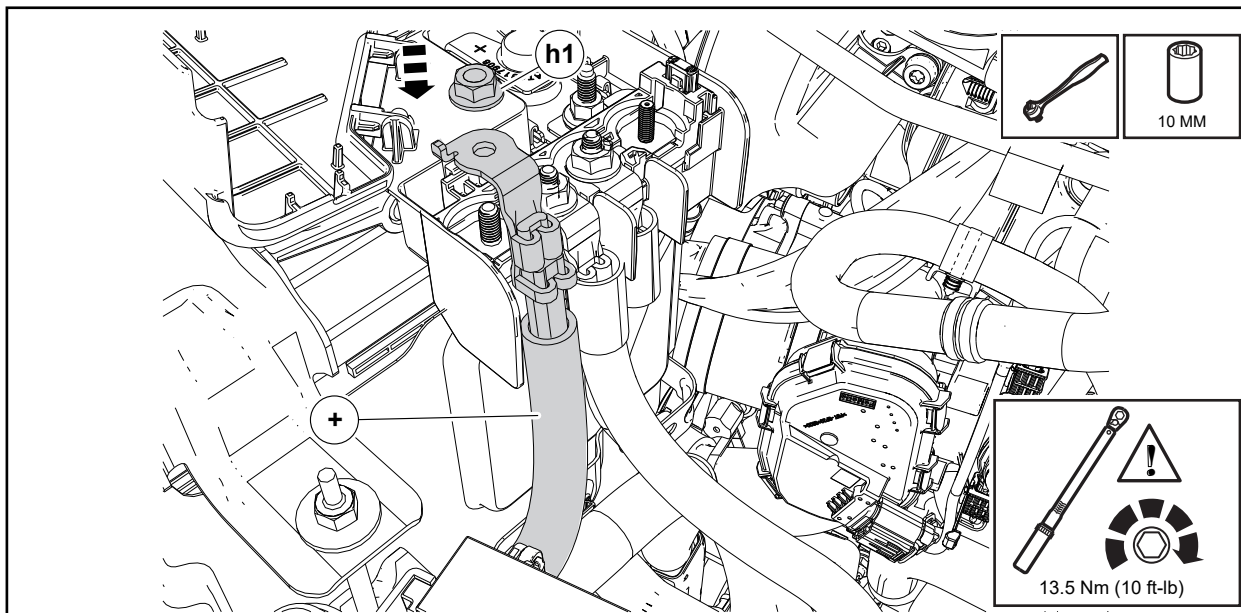
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42. Open the hood of the vehicle.



43. Connect the positive winch cable to the positive bus bar on the vehicles battery.

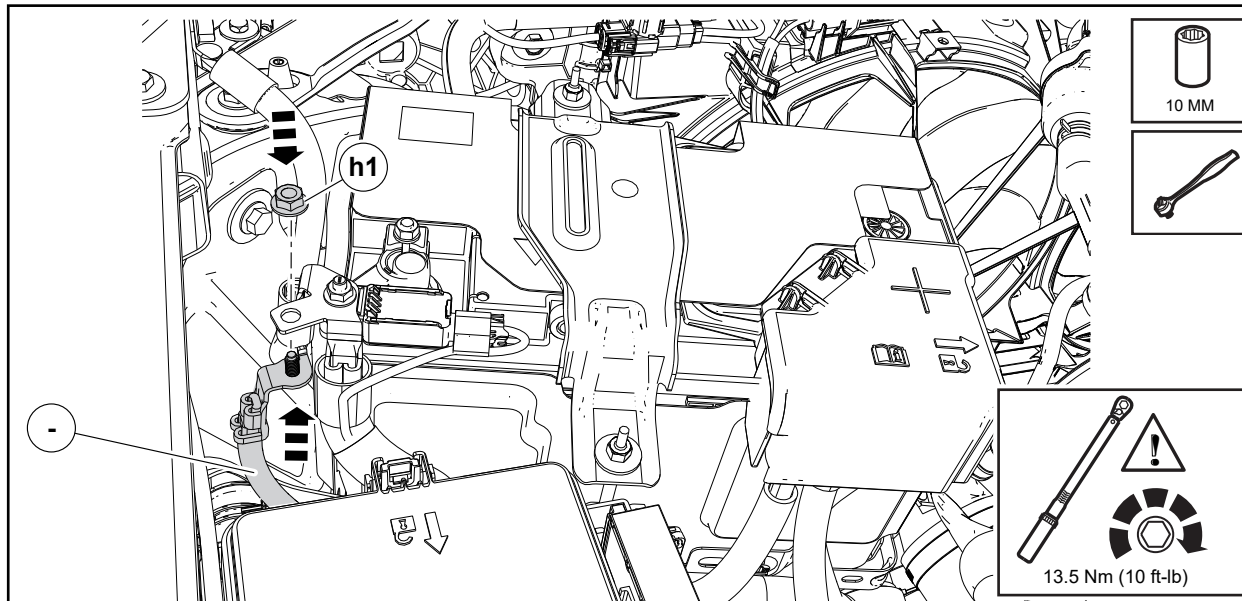
• Torque: 13.5 Nm (10 ft-lb)



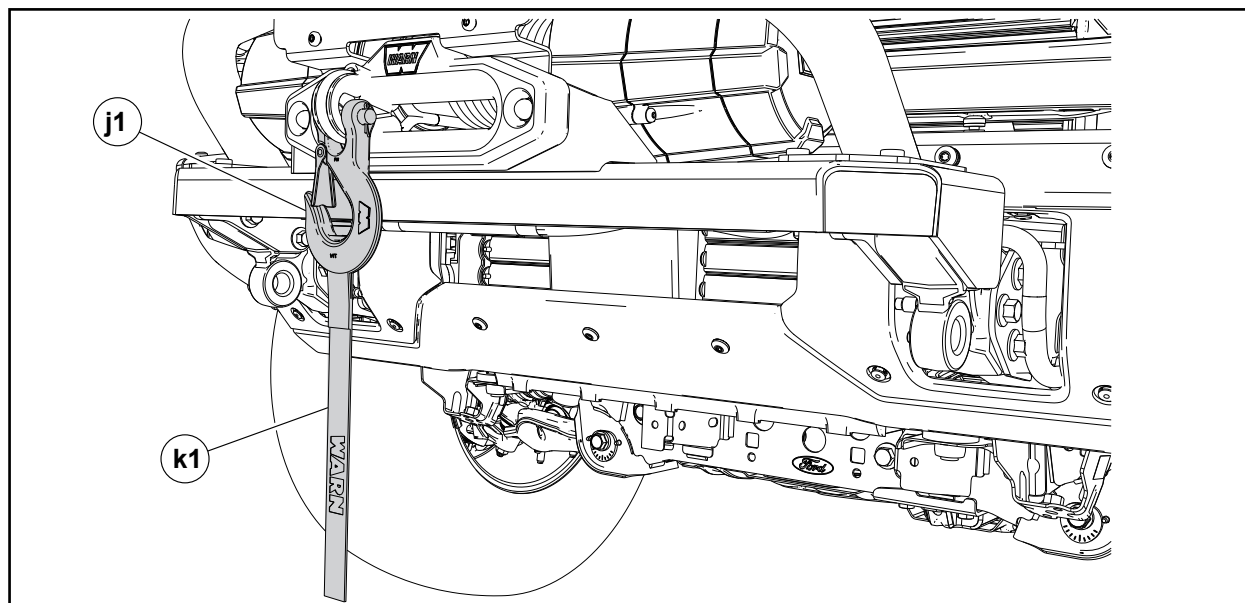
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44. Connect the negative winch cable to the negative terminal on the vehicles battery.

- Torque: 13.5 Nm (10 ft-lb)

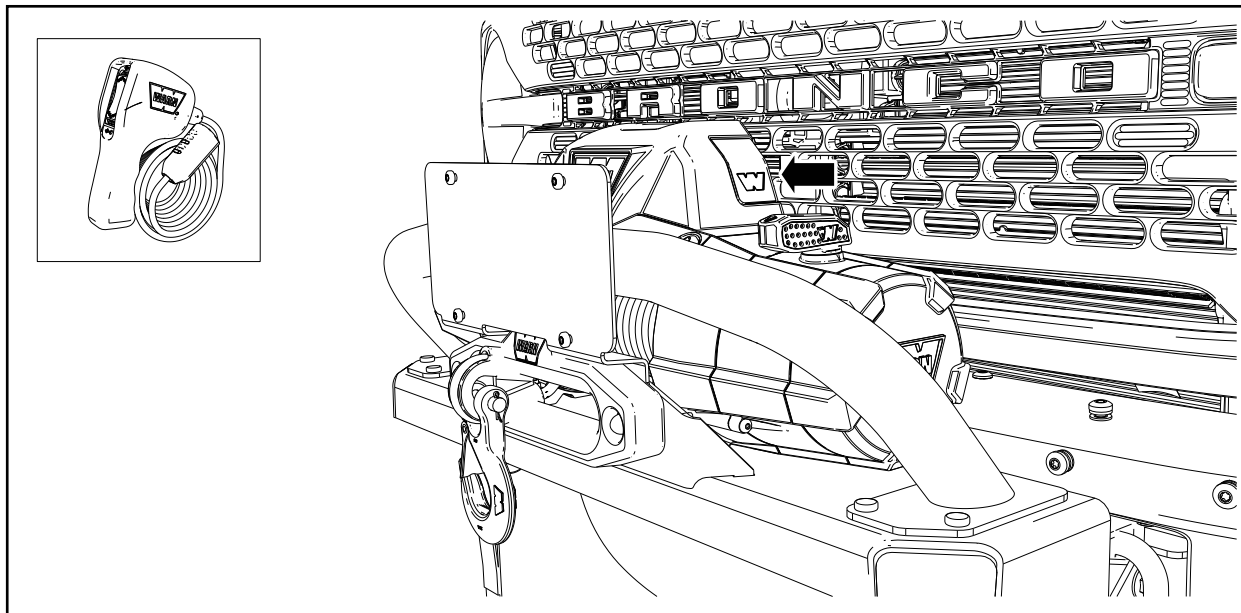


45. Install the tow hook and tow hook strap to the winch cable eyelet.

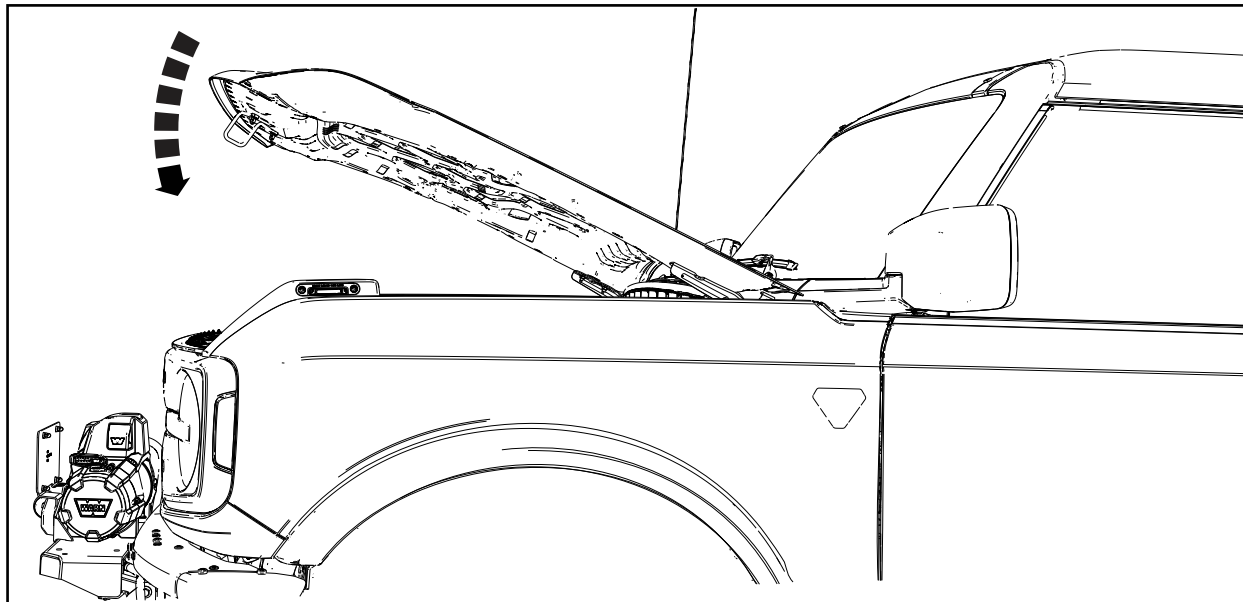


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46. Connect the remote to the winch and test the operation. Store the winch remote in the center console.

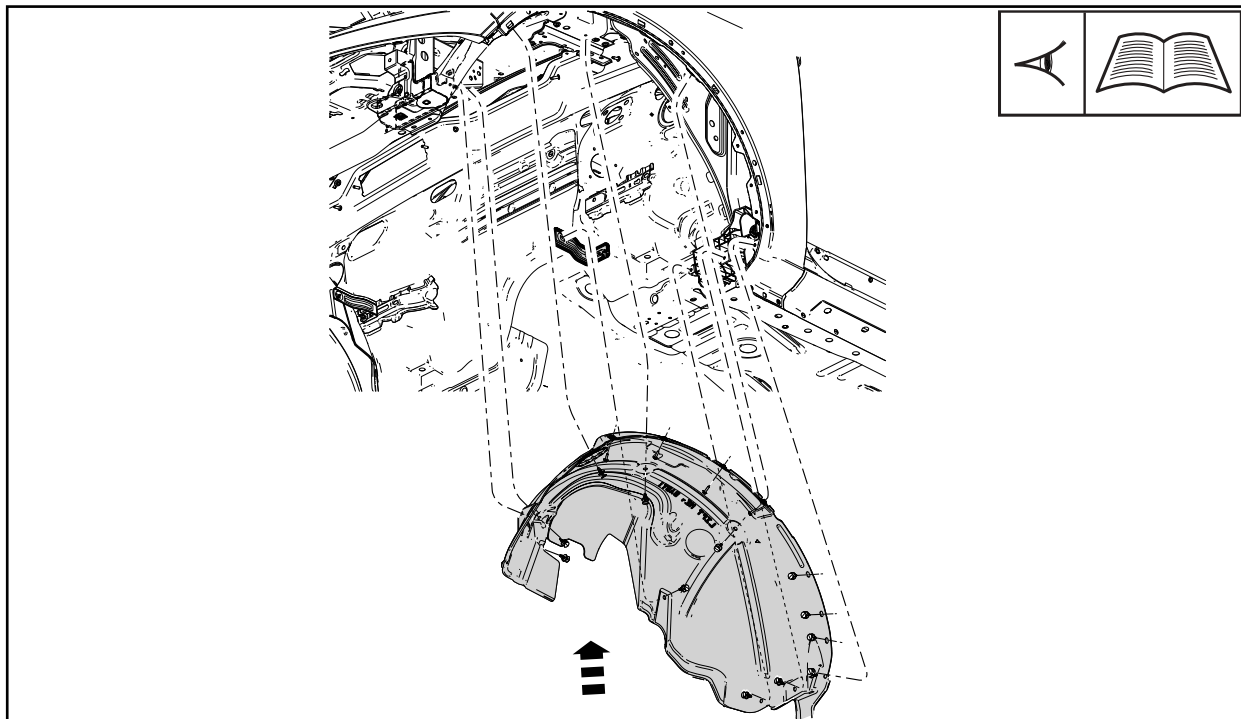


47. Close the hood of the vehicle.

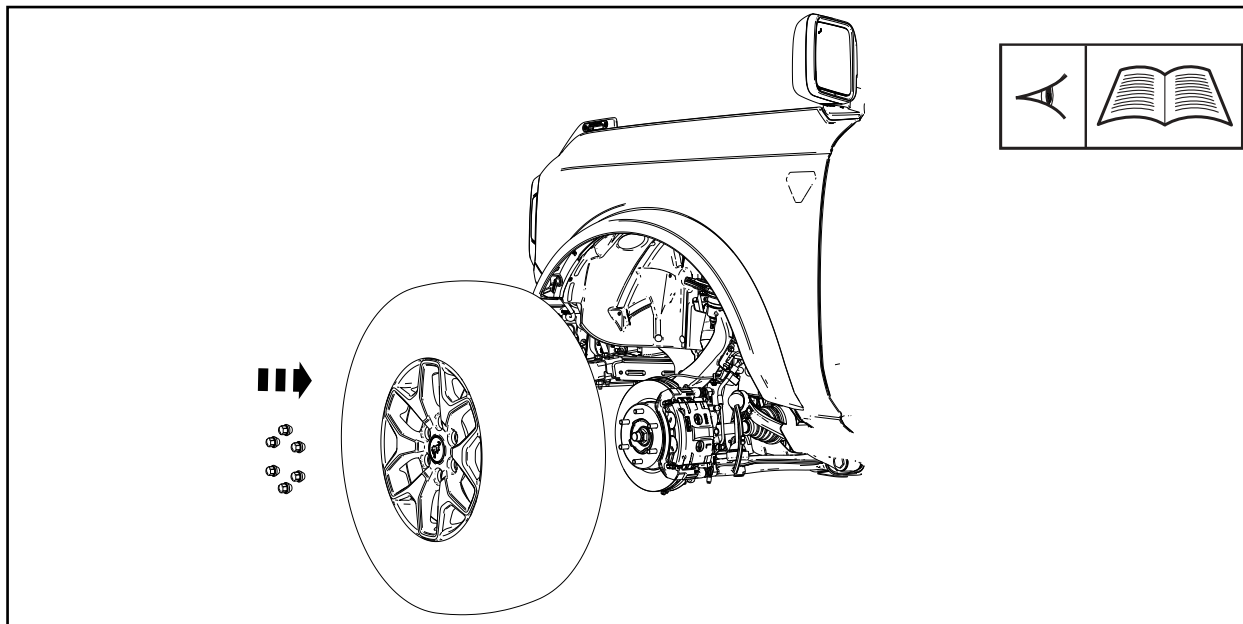


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48. Install the left hand wheel well splash shield and retainers.



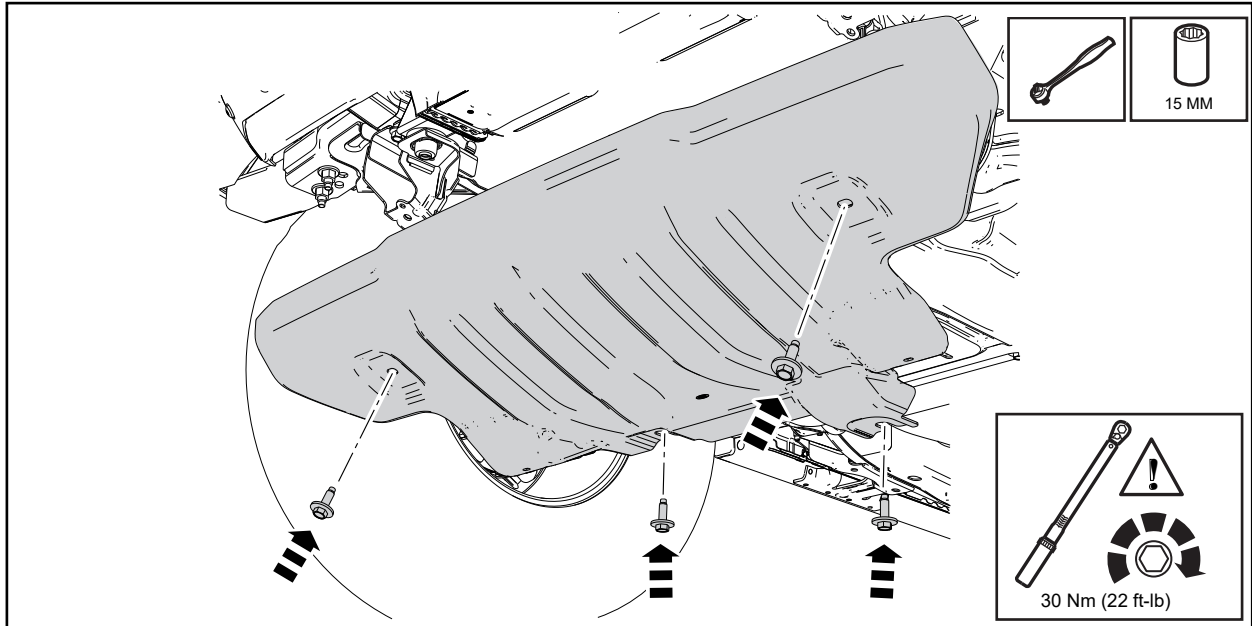
49. Install the left hand tire and lug nuts.



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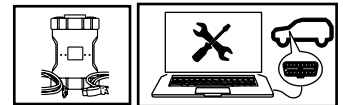
50. Install the left hand wheel well splash shield and retainers.

- Torque: 30 Nm (22 ft-lb)



Programming procedure:

51. Connect Ford Diagnostic & Repair System (FDRS) and start a new vehicle session.



52. Select "Toolbox", then scroll down to "RCM - Restraint Control Module". On the left hand side of the screen download the "RCM - Winch Configuration"

53. Select "Run" after the download has completed. Follow the on-screen instructions to complete the RCM - Winch Configuration.

NOTE: During the programming procedure you will be prompted to enter the Winch part number M-1821, M2DB-19E536, or M2DZ-19E536. The part numbers are case sensitive and do not require a suffix.

54. Vehicles equipped with front parking aid sensors - Check the alignment of the front parking aid sensors. Follow Workshop Manual - Azimuth System Check and Elevation System Check Section 413-13A.