

 Preview Solution CBR-2517-1

Mack Chassis - Wiper Linkage Inspection

Published 22 October 2025

Valid For

Mack Chassis - CHU,CXU,GR,AN, PI, MMD
Model Year - 2025 to current

Instances have been reported where windshield wipers may not function properly due to the wiper mechanism linkage arms becoming disconnected from the motor assembly. Investigation indicates the condition may occur if the wiper bolt is not installed or torqued to specification.

Part Number	Description	Quantity
23550705	WIPER MECHANISM	1
84716580	WIPER MECHANISM	1
91007551	M6 x 25 Steel Property Class 10.9	1

Corrective Action

1. Inspection:

- If the windshield wipers are not functioning properly, inspect the wiper motor linkage assembly for disconnection or looseness.
- Confirm no additional cab damage has occurred as a result of the condition.

2. Repair Procedure:

- Replace the wiper linkage bolt and a new wiper mechanism if necessary.
- Torque the bolt to **12 Nm ± 0.5 Nm**.
- Verify proper wiper function and full range of motion after repair.

3. Operation Reference:

- Use **Operation ID 3631-03-02-05 – Windshield Wiper Motor and Linkage Assembly, Replacement** found in **Impact** for repair guidance and documentation.

Related links and attachments

No links or attachments available



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36301-2 Windshield Wiper Transmission, Replacement

i Illustrations may differ slightly from the actual vehicle being serviced. However, key components addressed in this information are represented as accurately as possible.

i Colors used in illustrations are for highlighting purposes only and do not correspond to the actual colors of the vehicle.

i All threaded fasteners that do not have a tightening torque specification in the information are tightened to a standard torque. Standard torques are available in the following specification. [Standard Tightening Torques](#)



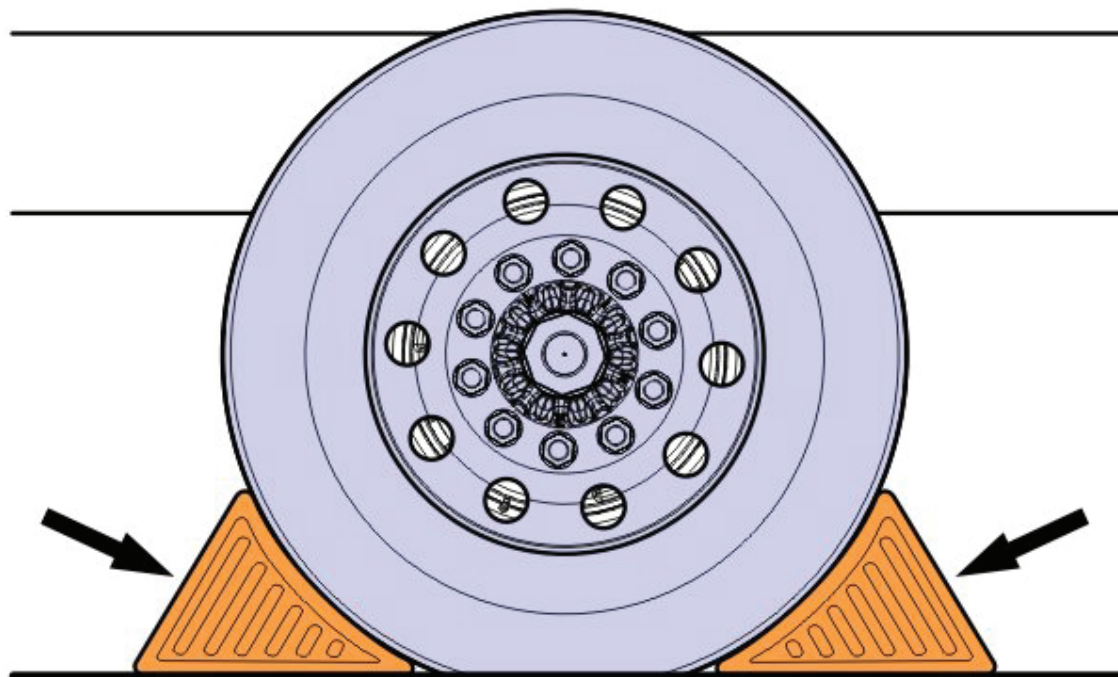
CAUTION

Service Information Advisory.

If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.

- ▶ You must read and understand the precautions and guidelines in Service Information, Function Group 3, "General Safety Practices, Electrical and Electronics" before performing this procedure.

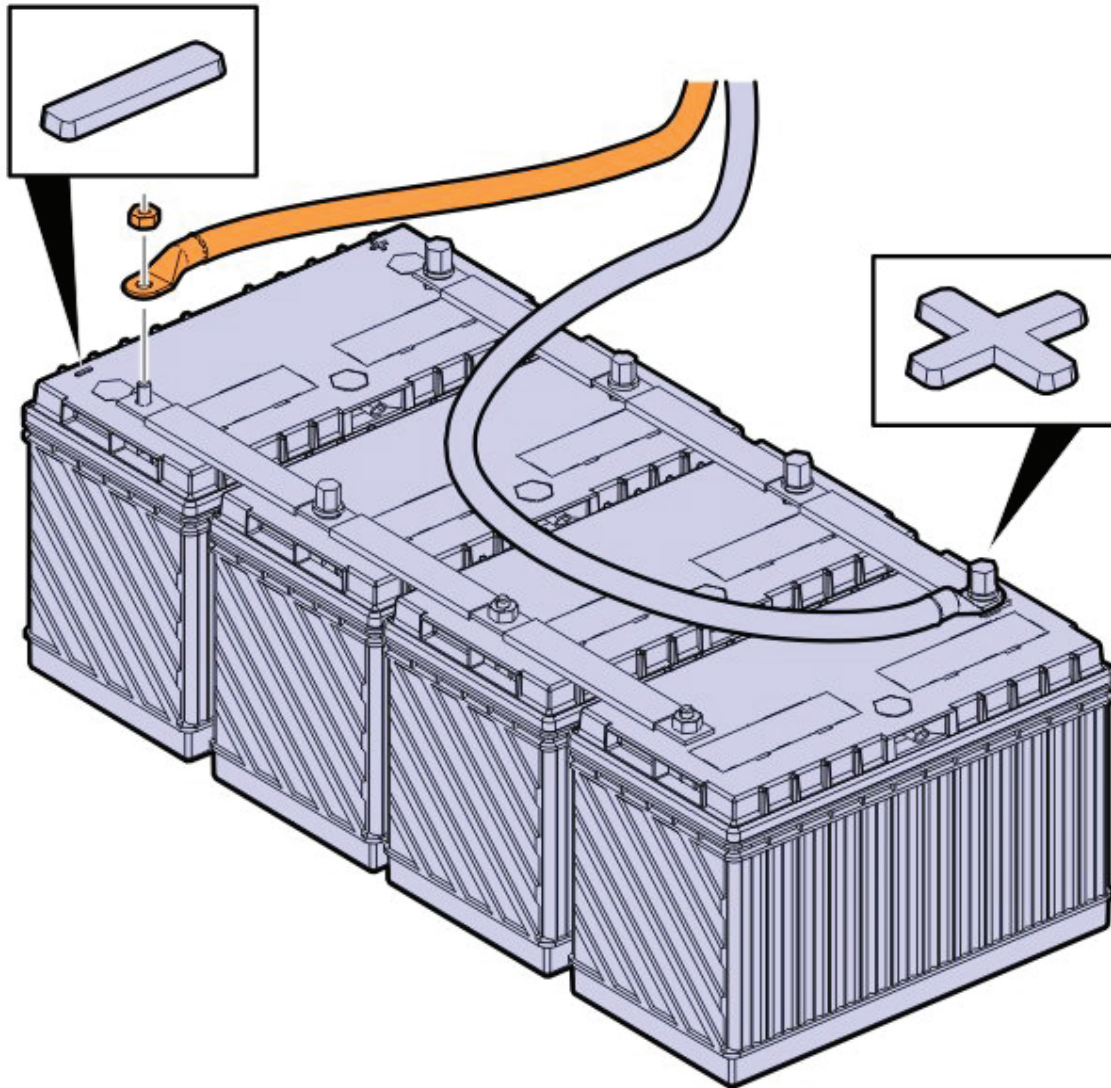
- 1 Park the vehicle on a level surface.
- 2 Apply the parking brake.
- 3 Place the transmission in neutral.
- 4 Install the wheel chocks.



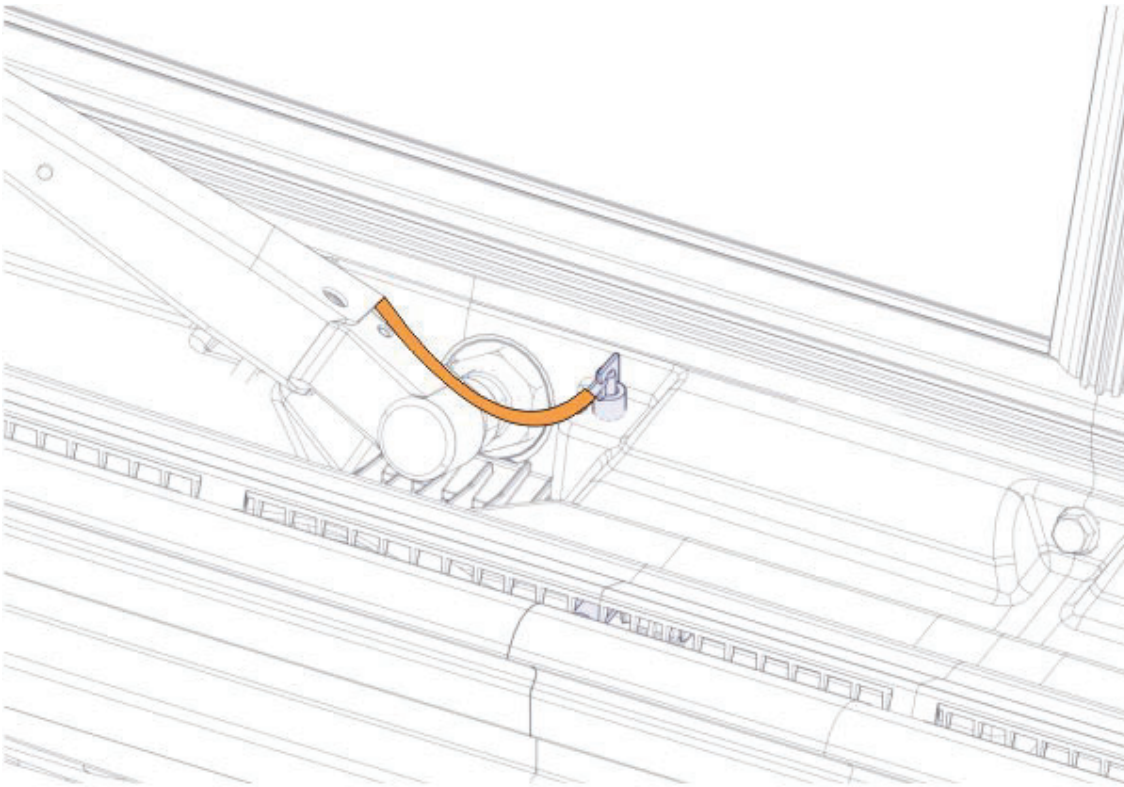
- 5 Disconnect the cable from the negative terminal.

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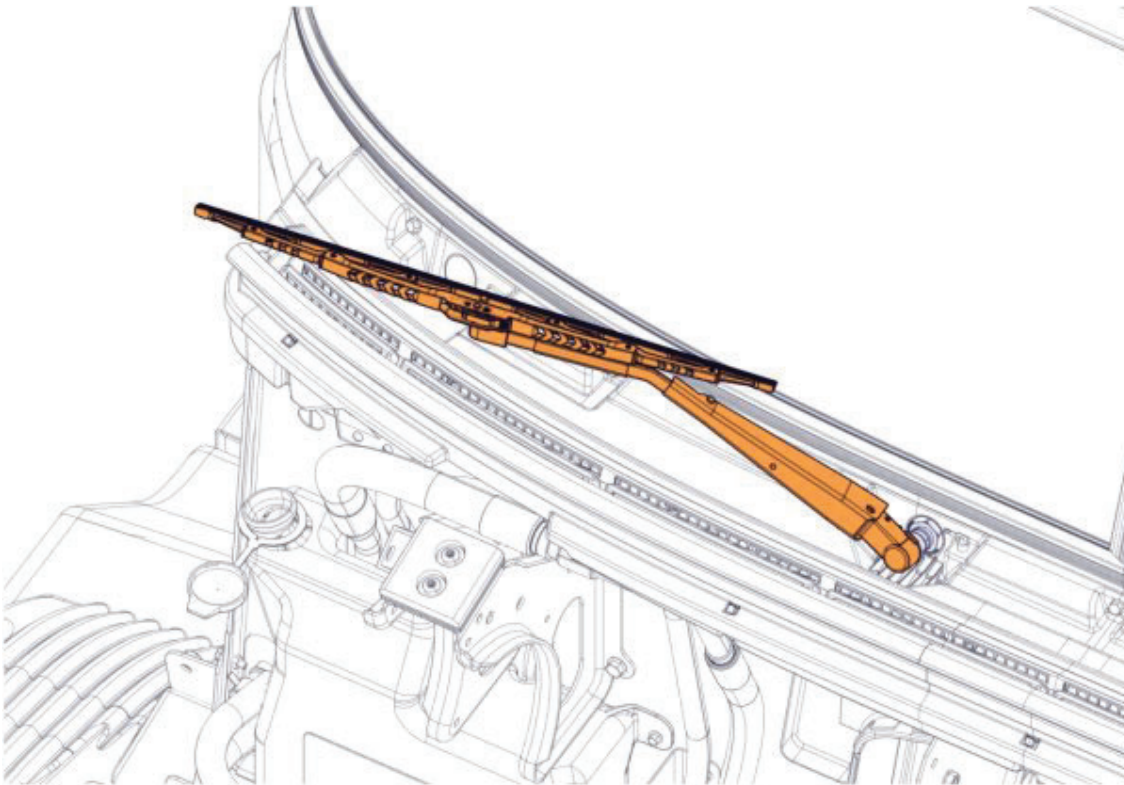
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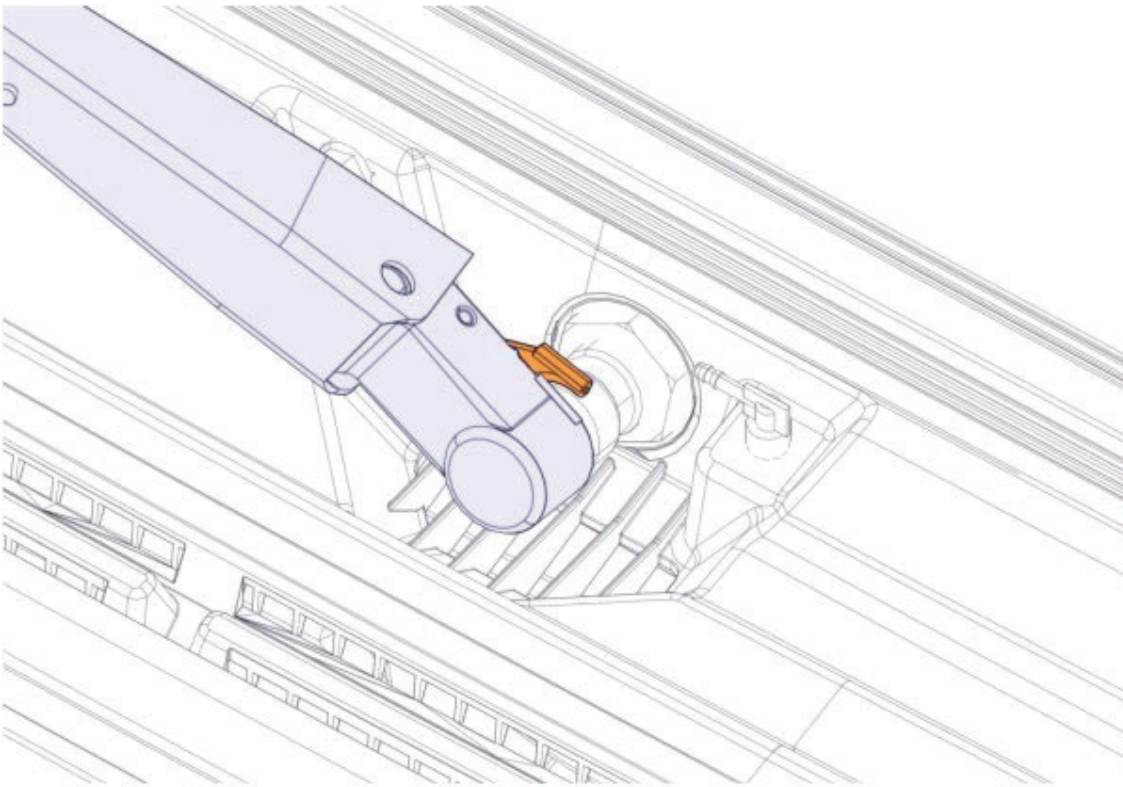
6	Unlatch and raise the hood.
7	Disconnect the hoses, both sides.



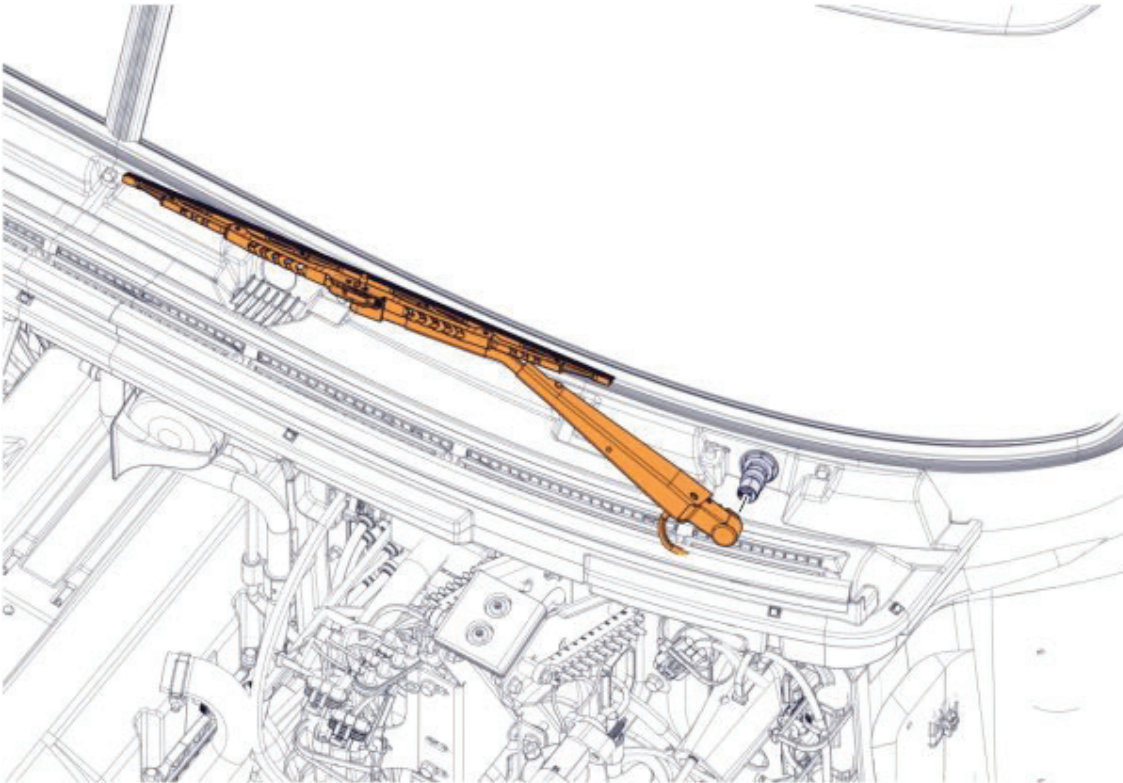
8	Pull the wiper arm assembly away from the windshield, both sides.
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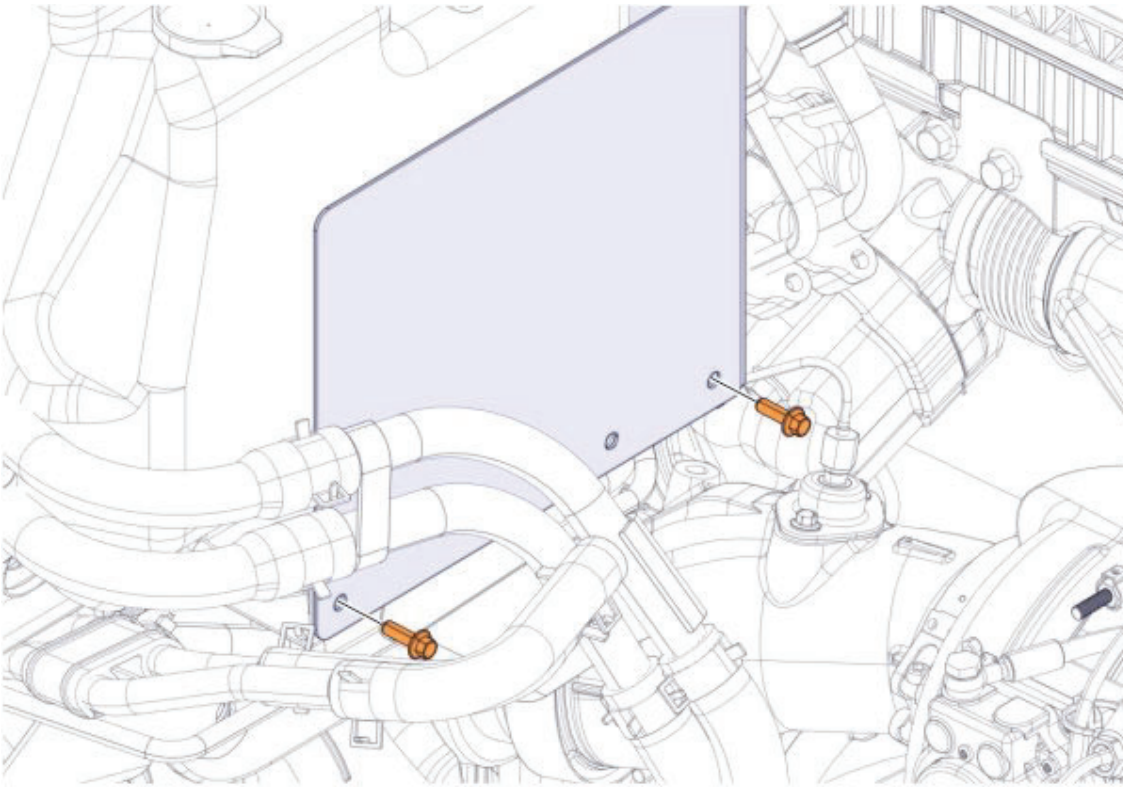
9	Lift the release tabs, both sides.
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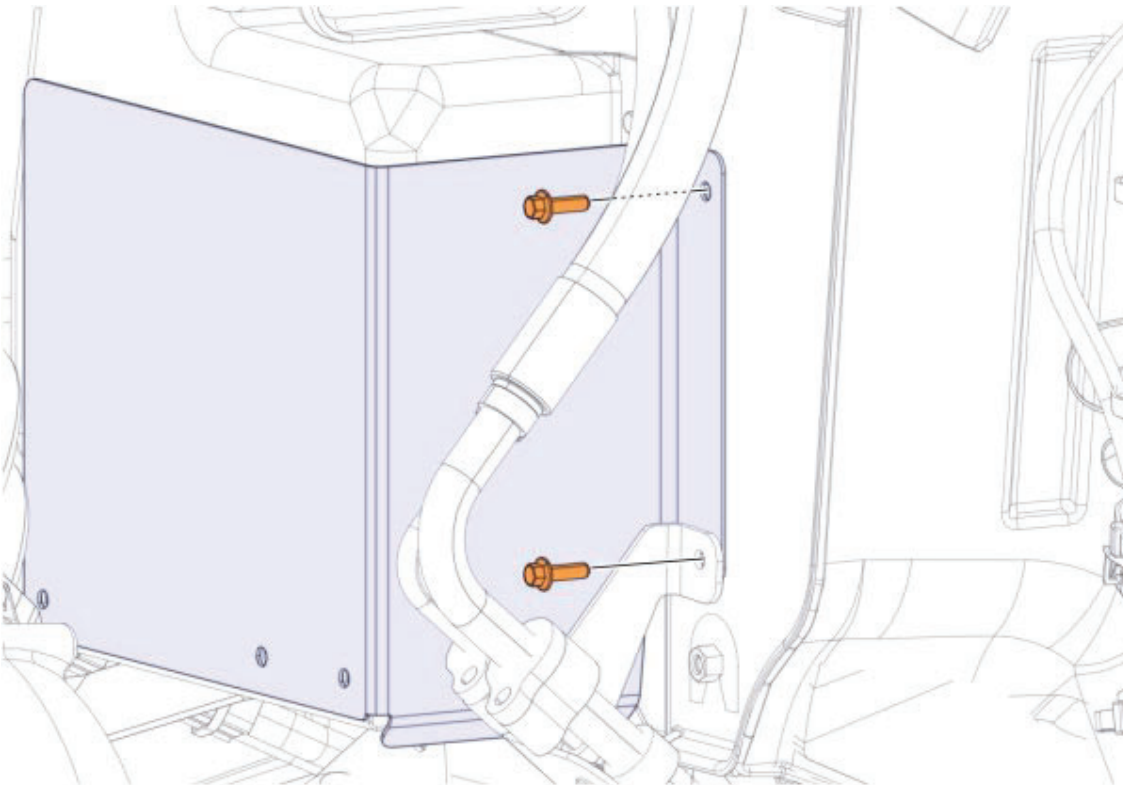
10	Remove the wiper arms, both sides.
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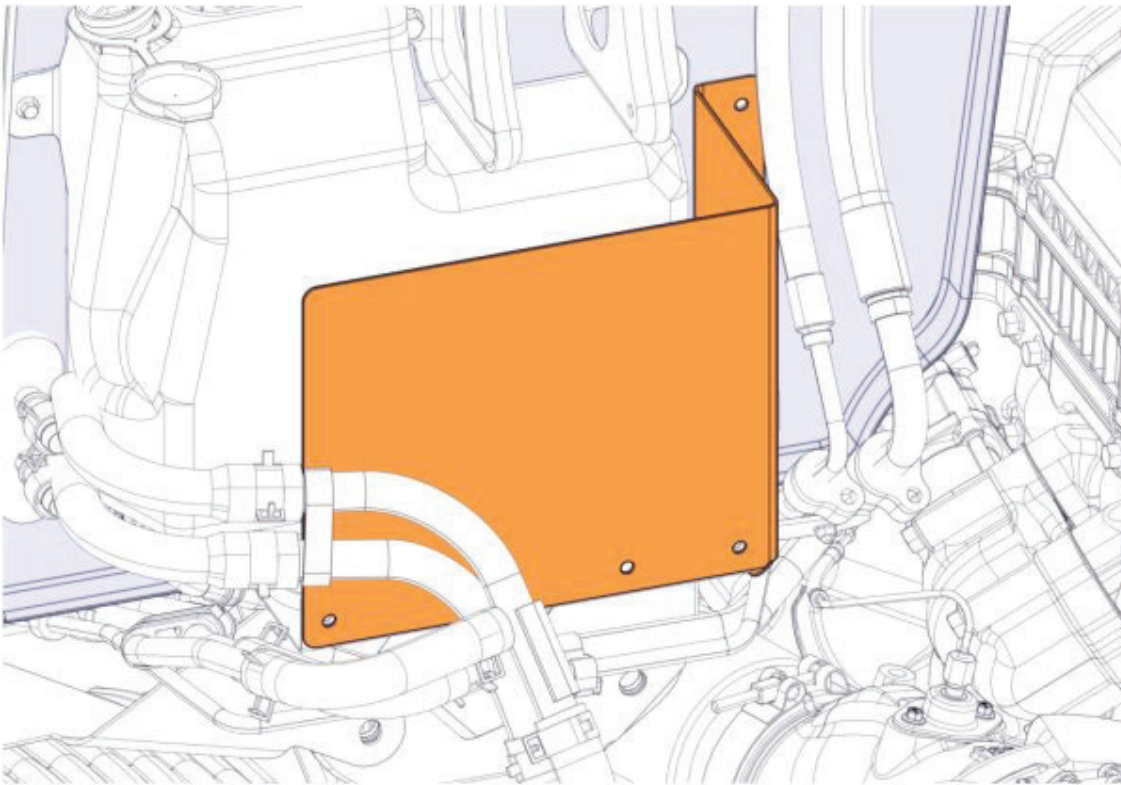
11	Remove the screws.
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12	Remove the screws.
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13	Remove the shield.
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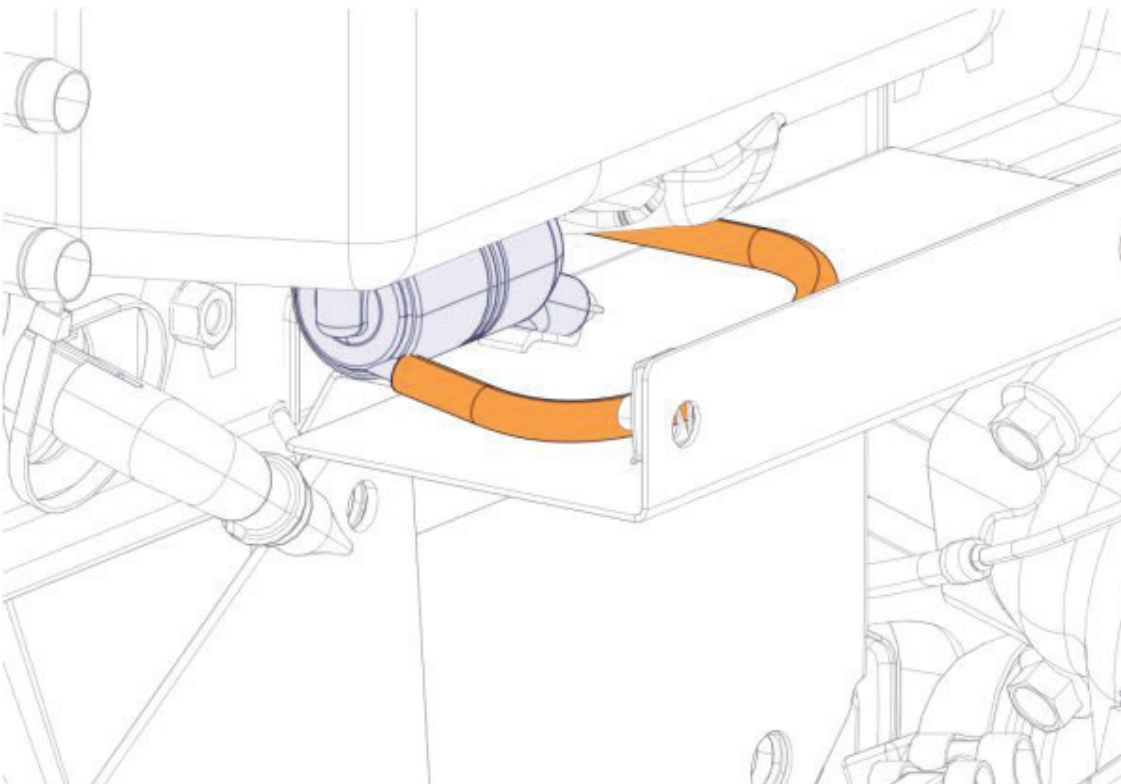


14 Disconnect the hose.



Note

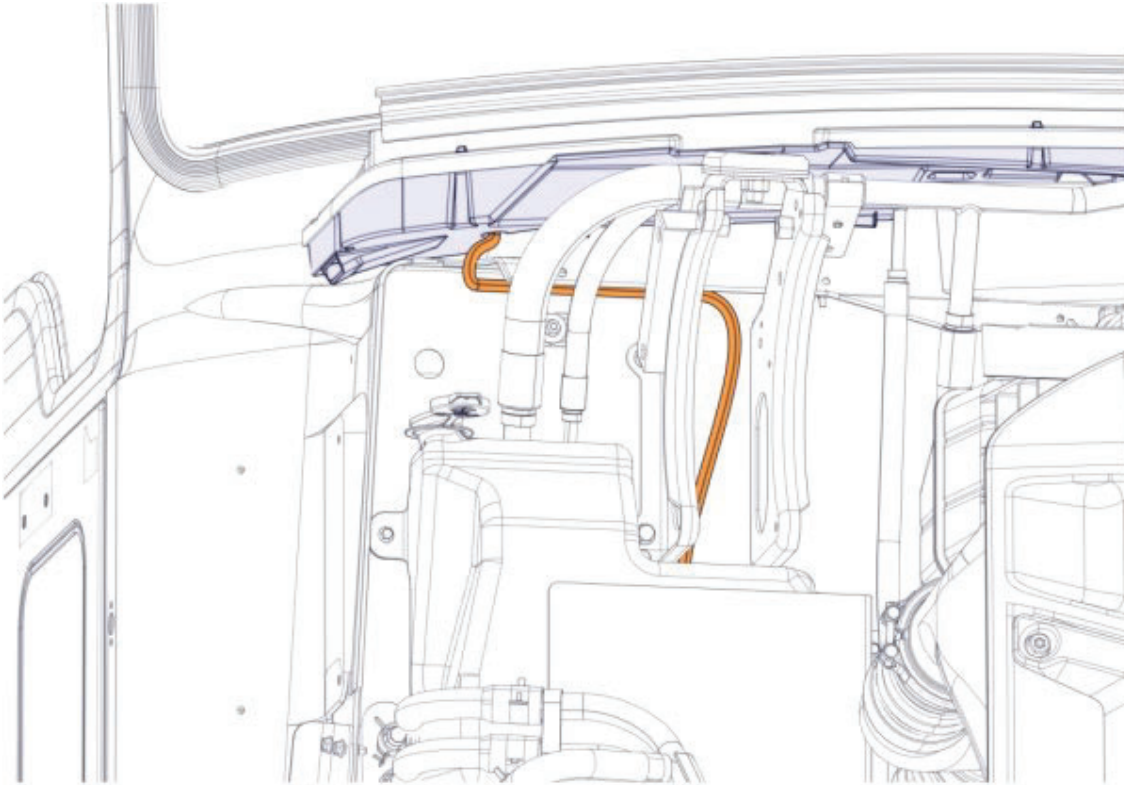
Collect the washer fluid in a clean container for later reuse.



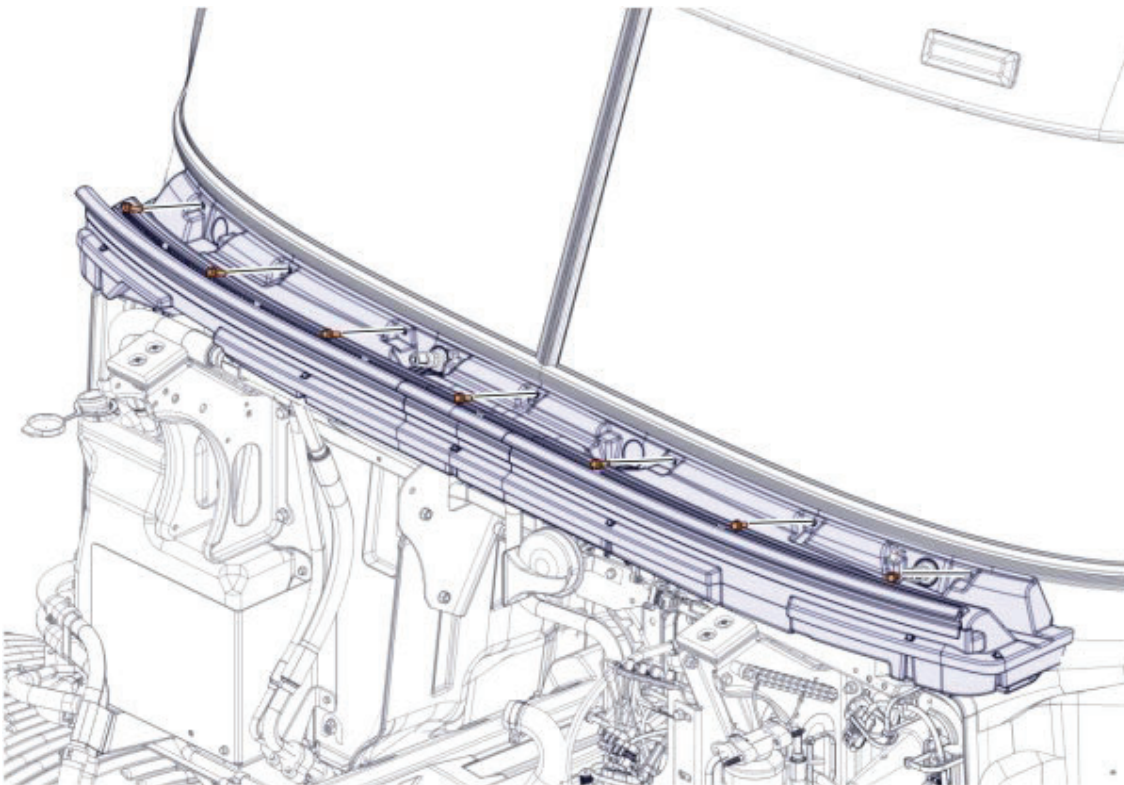
15 Remove the hose.

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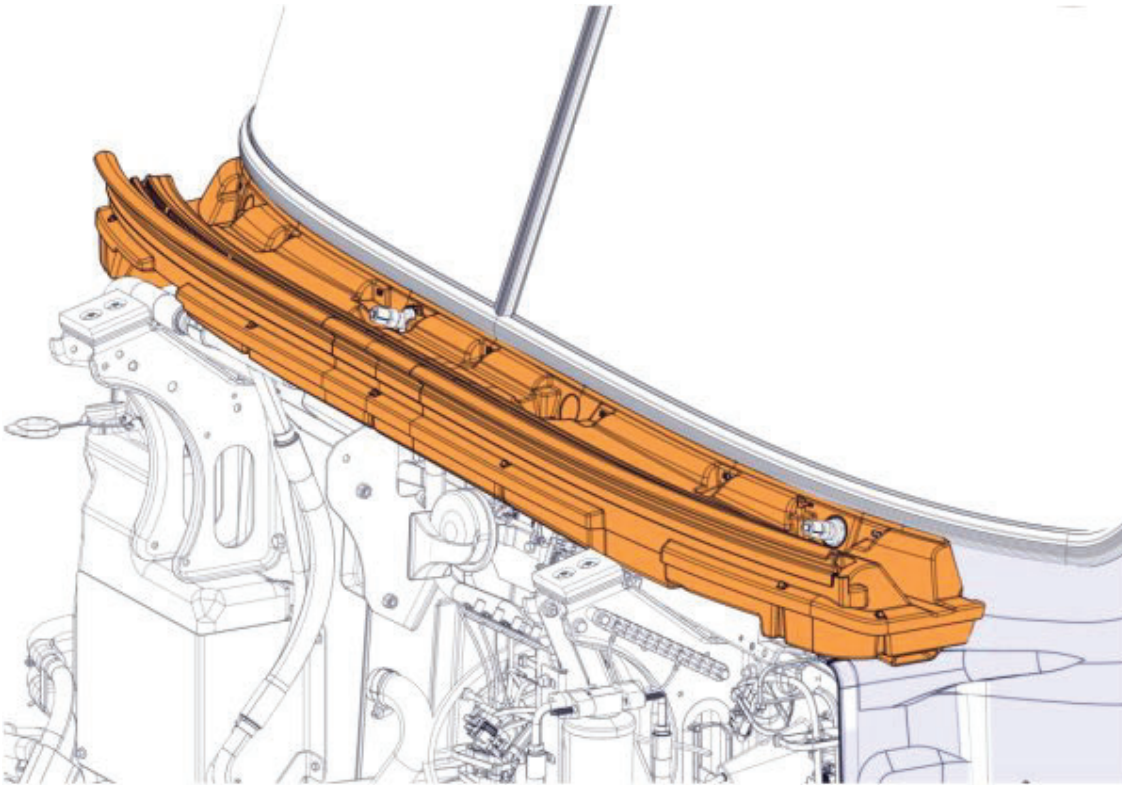
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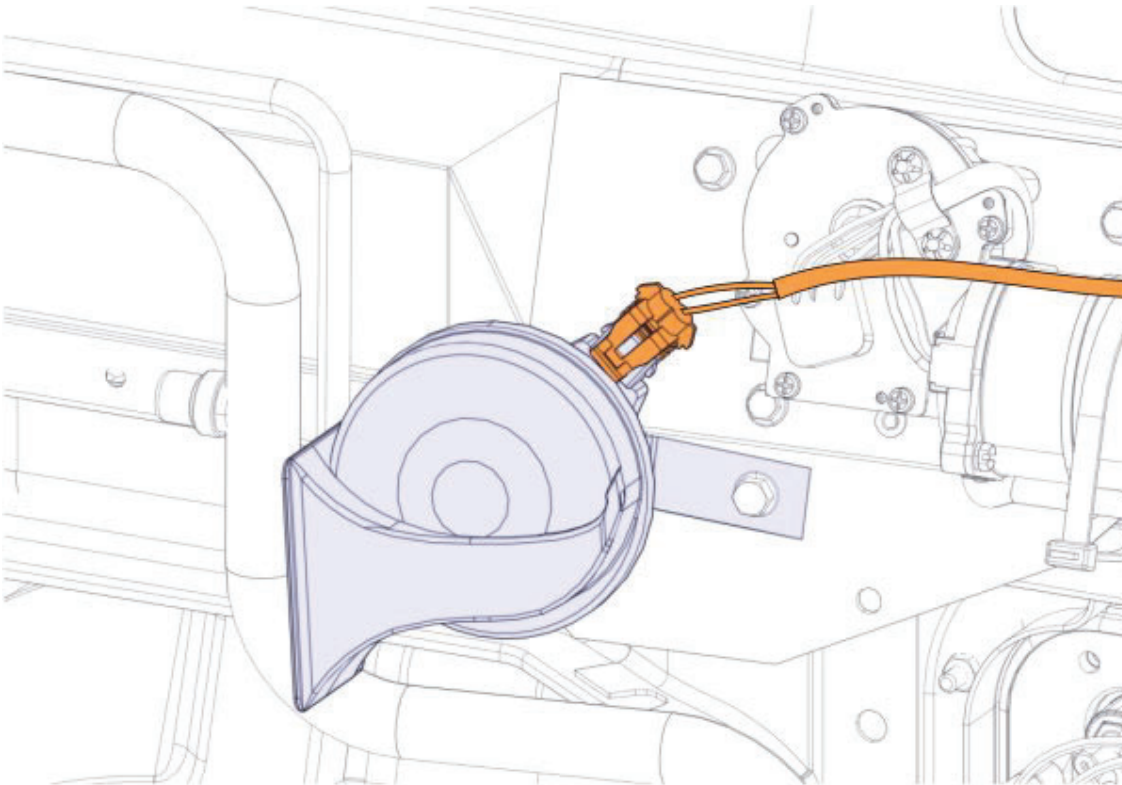
16	Remove the screws.
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17	Remove the cowl.
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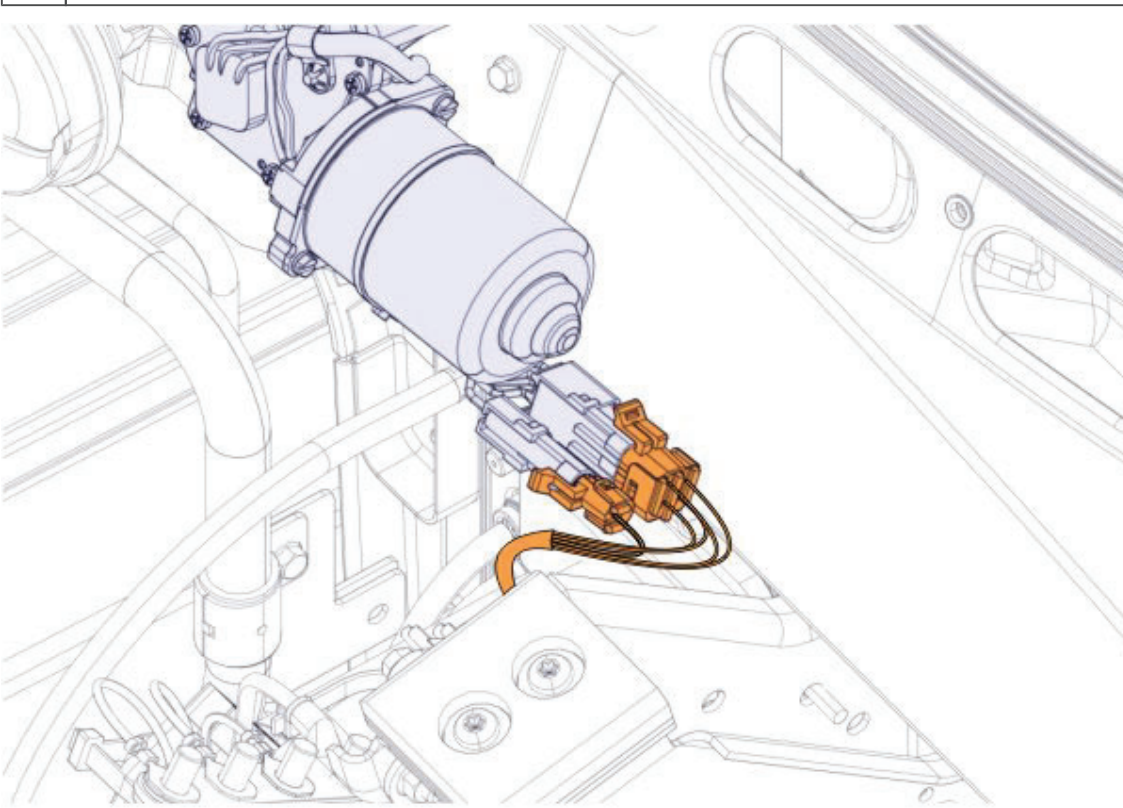
18	Disconnect the connector.
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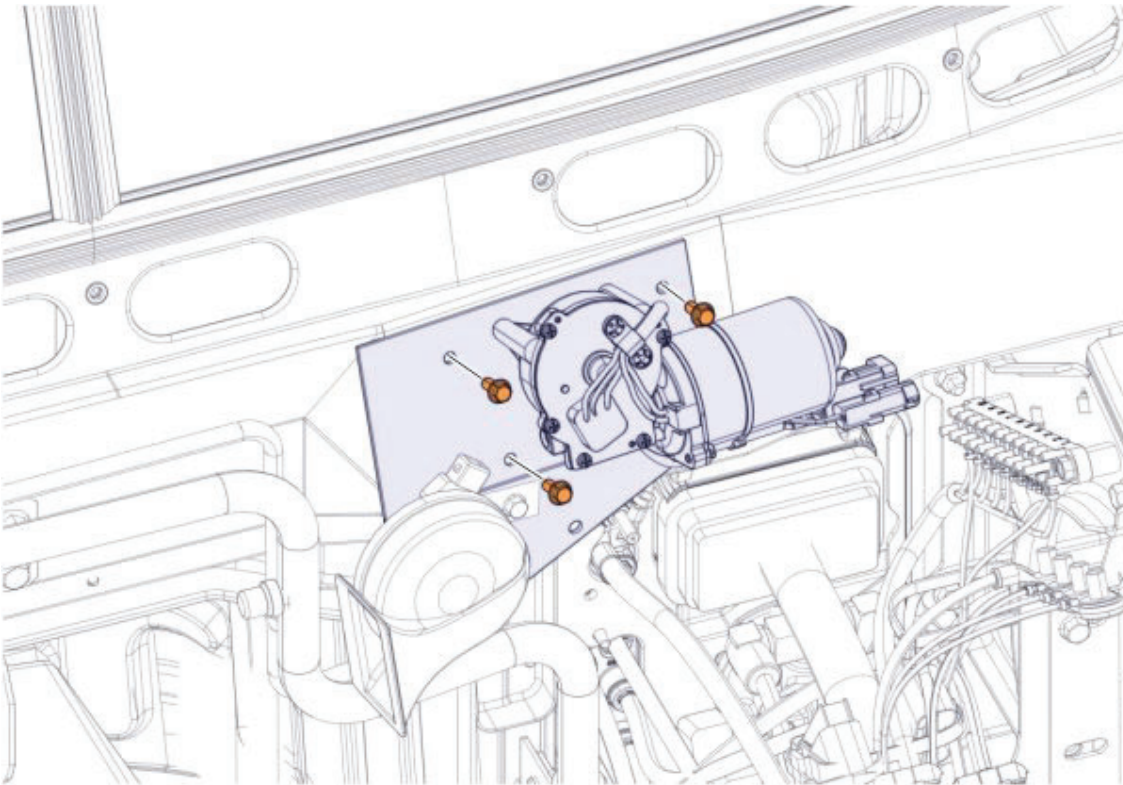
19	Disconnect the connectors.
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**Note**

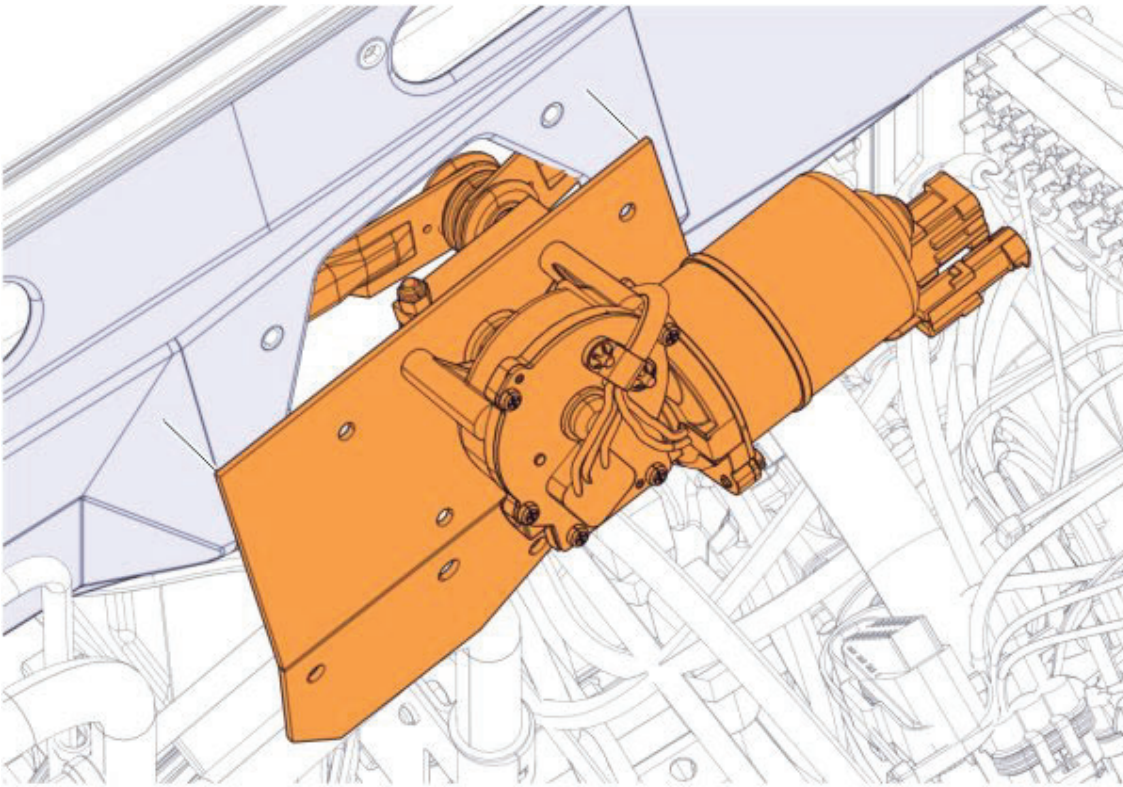
Note the positions.



20	Remove the screws.
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21	Pull the wiper motor assembly away from the cowl.
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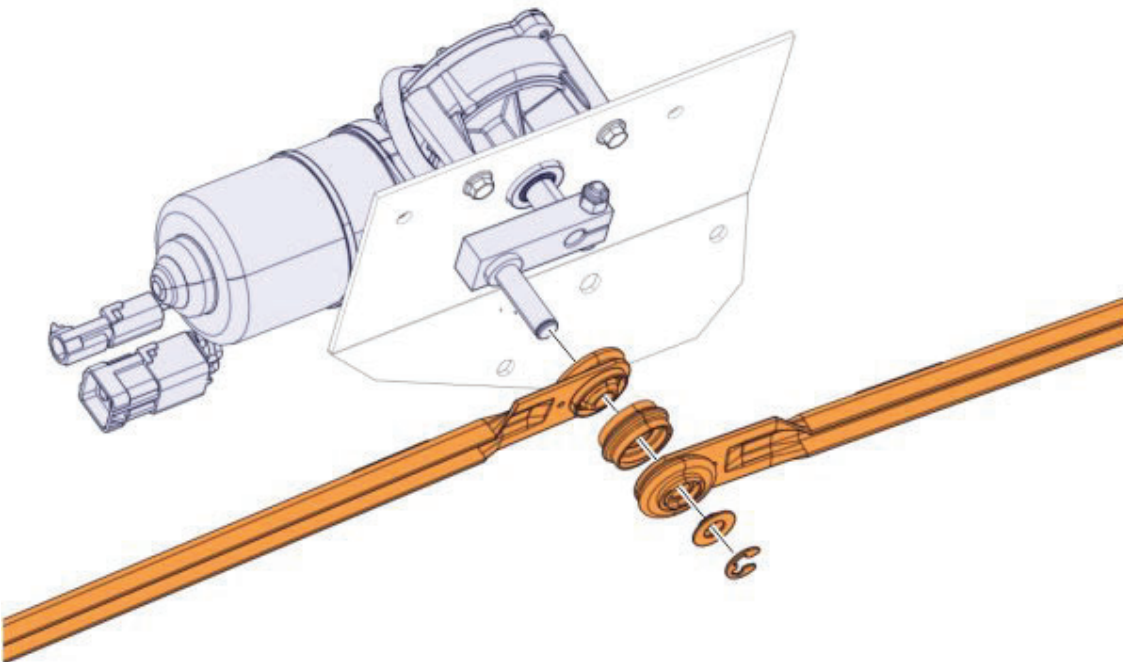


22

Disassemble the linkage.

**Note**

Note the orientation of components.



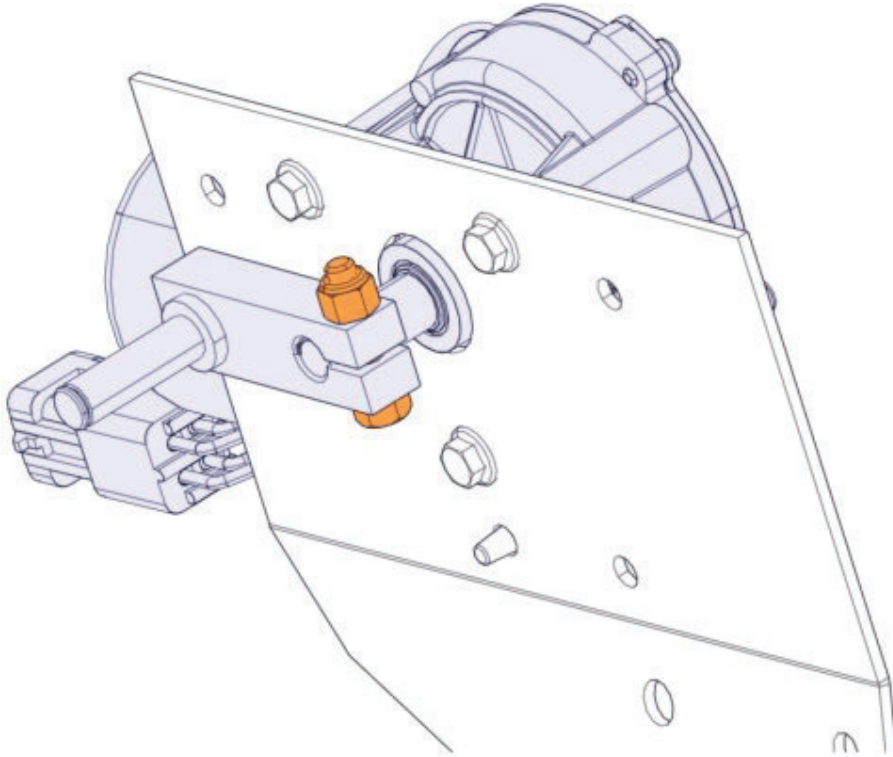
23

Remove the nut.

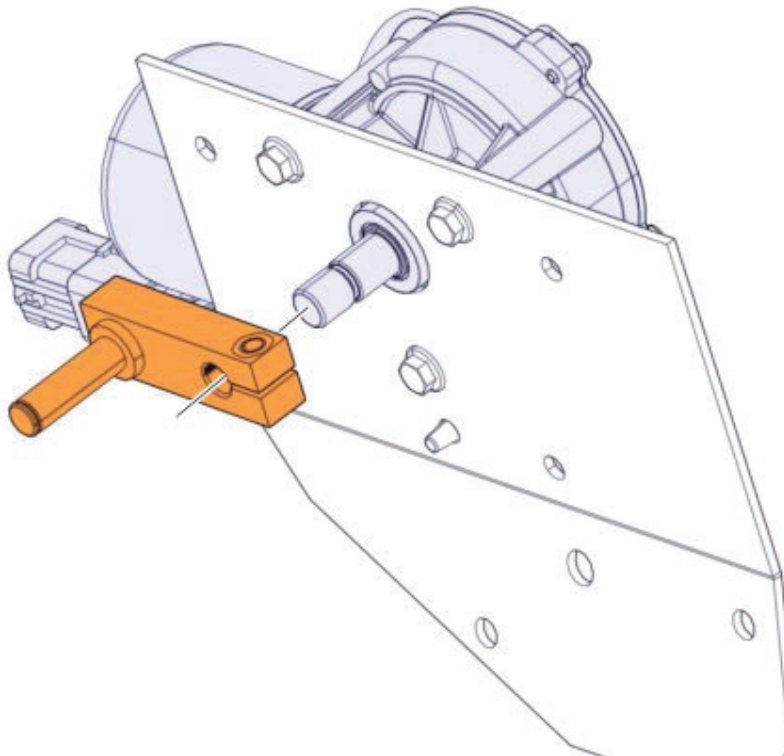
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24	Remove the screw.
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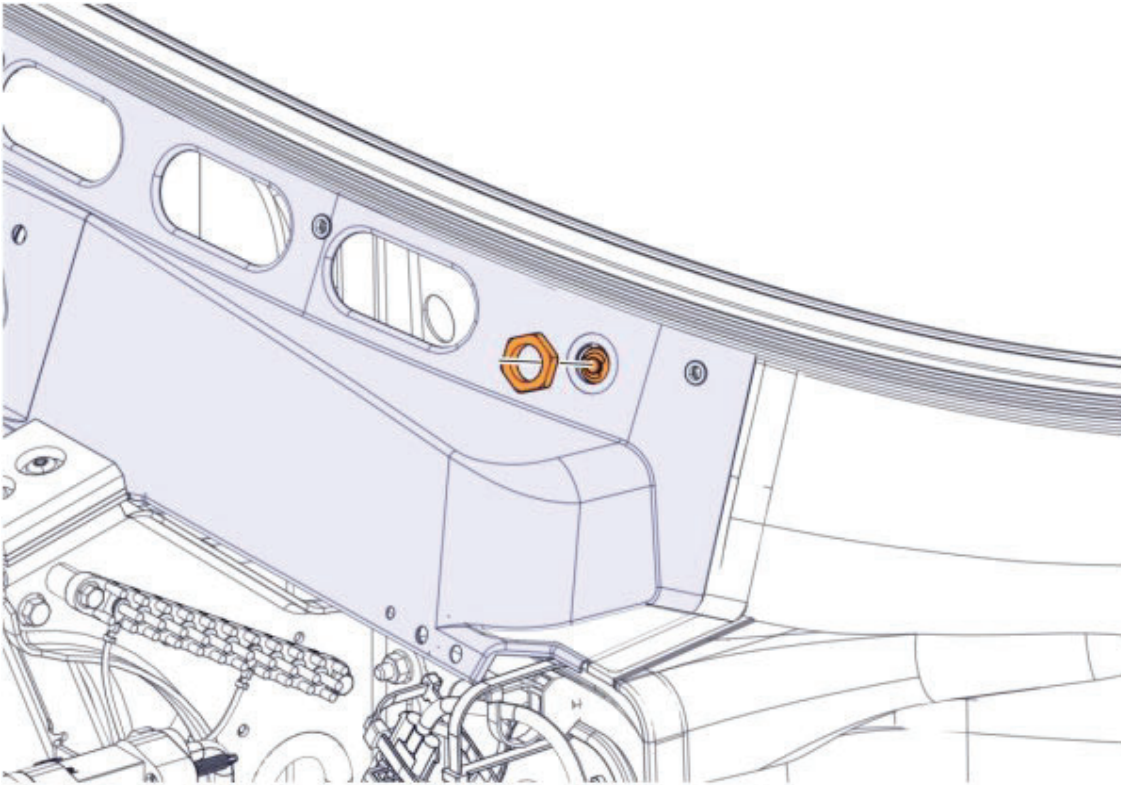


25	Remove the bell crank.
----	------------------------

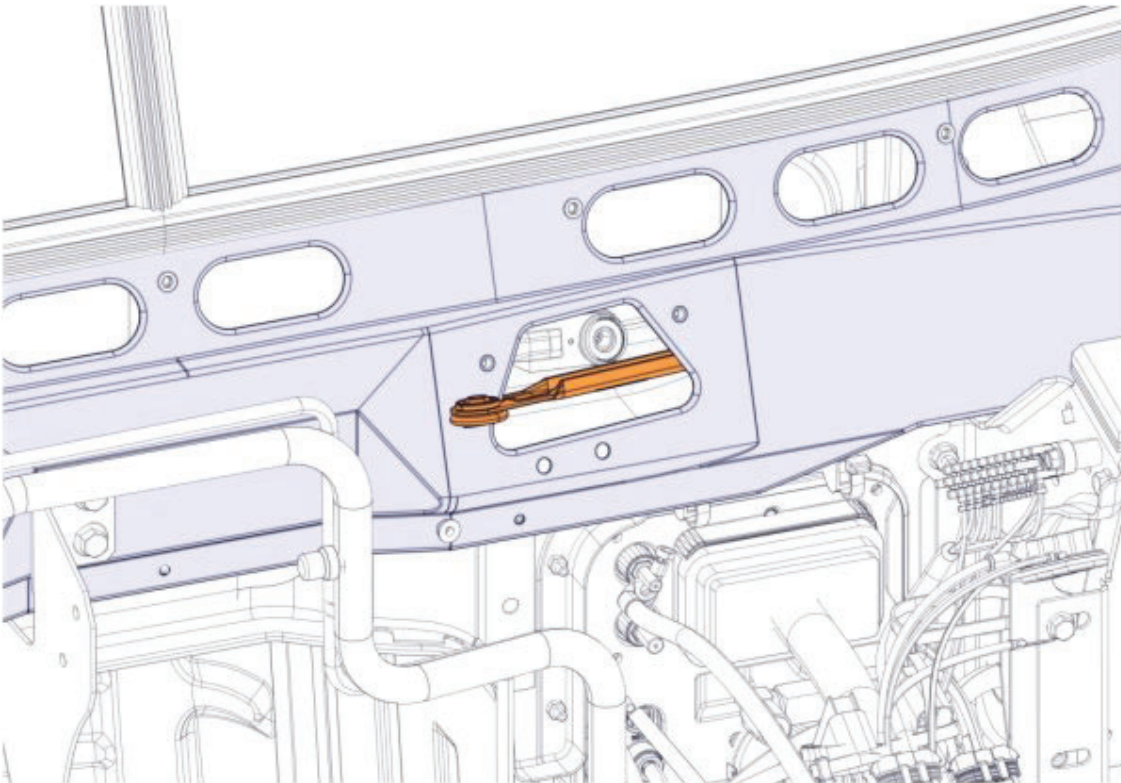


26	Remove the nut.
----	-----------------

27 Position the pivot inside the cowl.

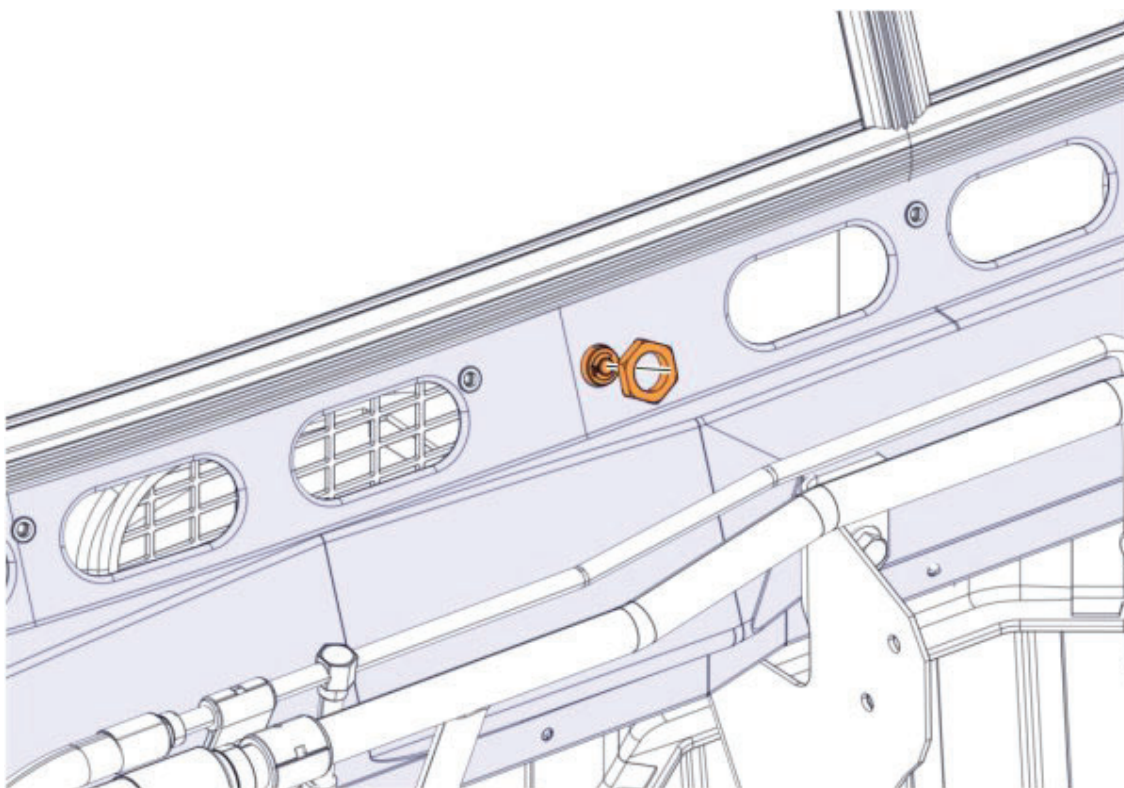


28 Remove the arm and pivot assembly.

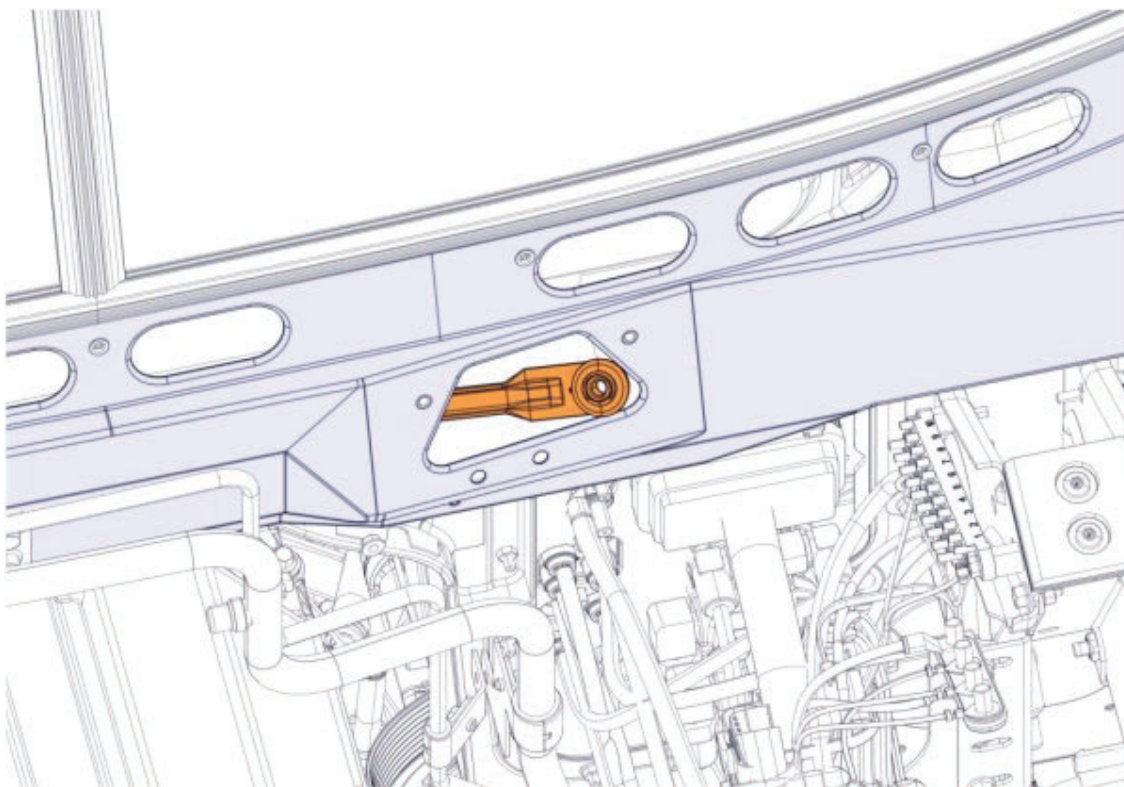


29 Remove the nut.

30	Position the pivot inside the cowl.
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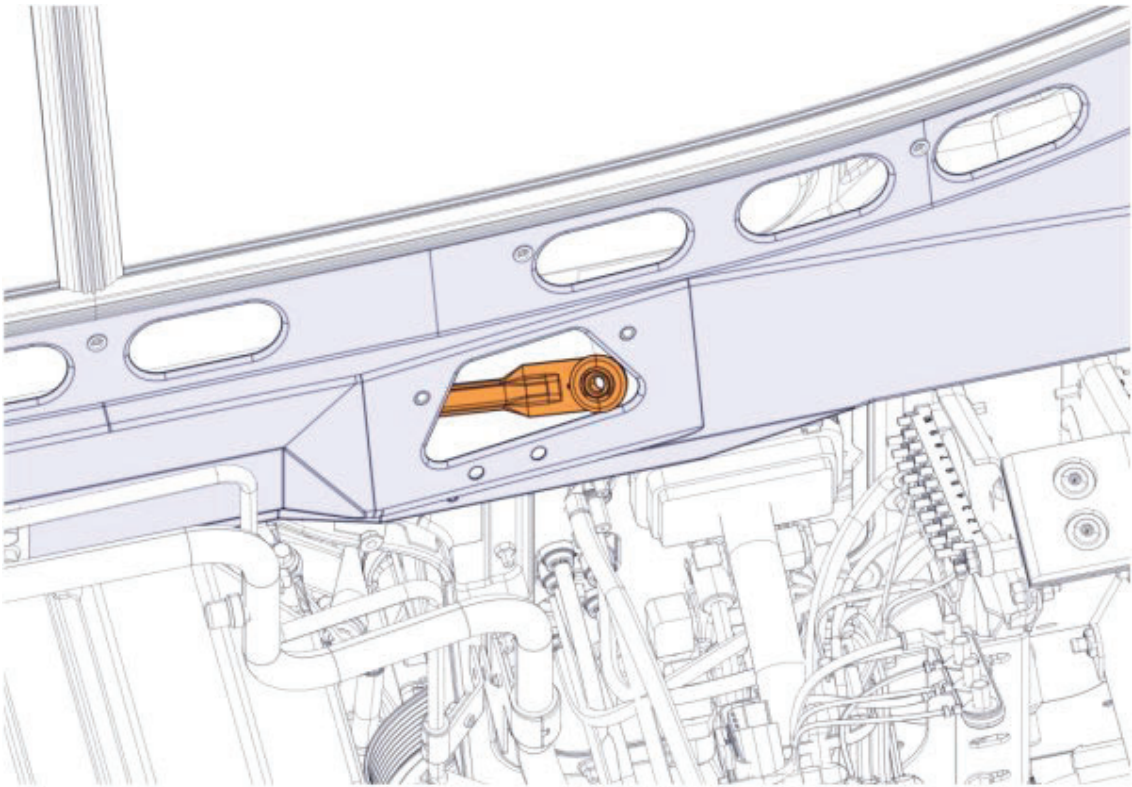


31	Remove the arm and pivot assembly.
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32	Install the windshield wiper linkage.
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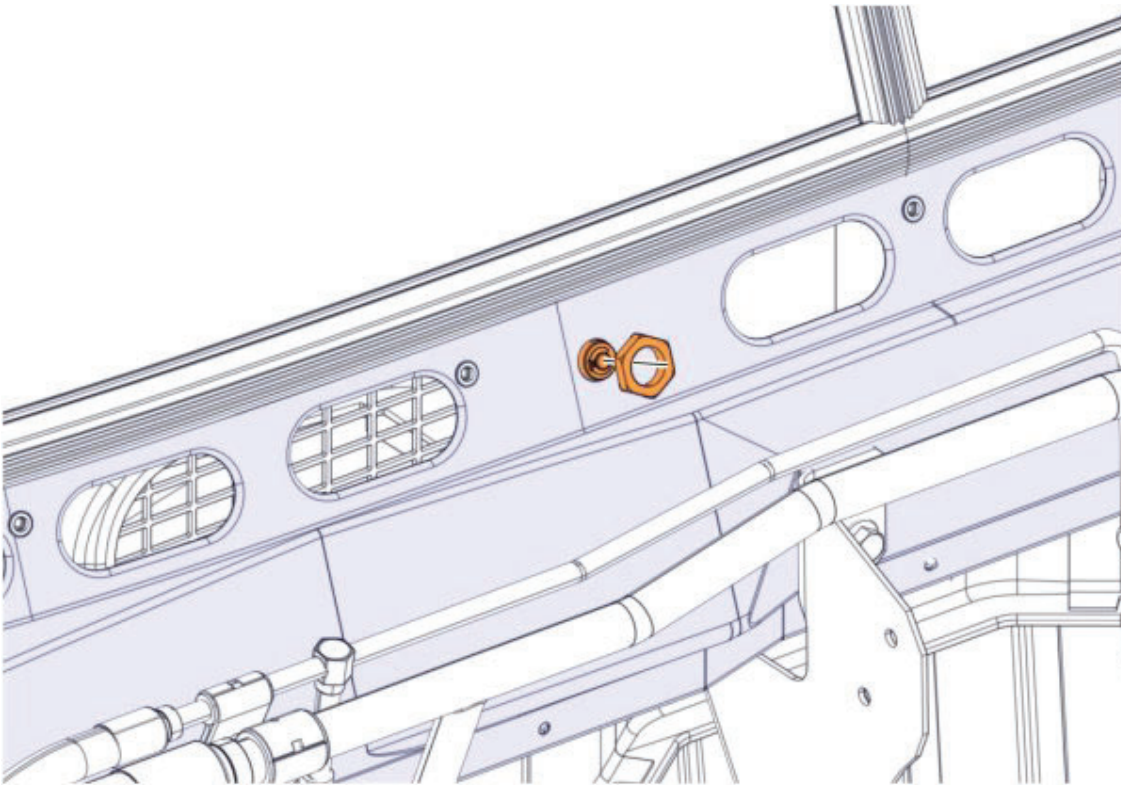
33	Install the arm and pivot assembly.
----	-------------------------------------



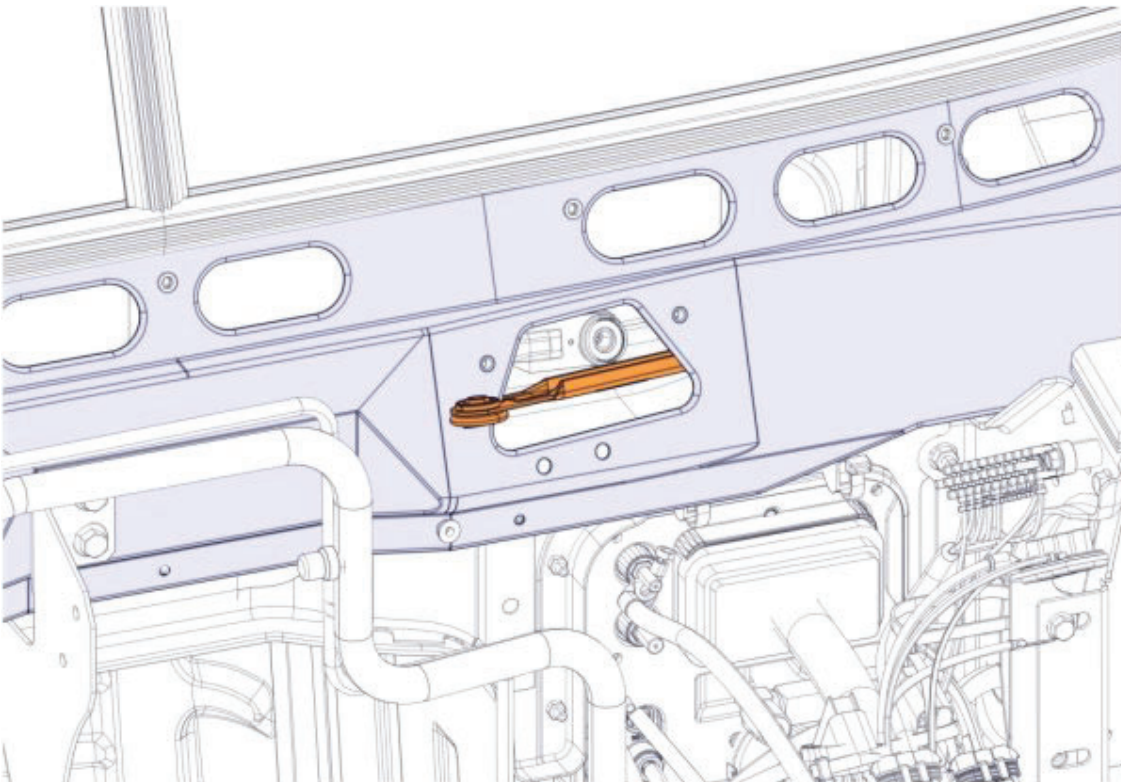
34	Install the pivot.
----	--------------------

35	Install the nut.
----	------------------

36	Torque tighten the nut.	
	Tightening torque	
	Wiper link, nut	8 ±1 Nm (6 ±1 lb _f ·ft)



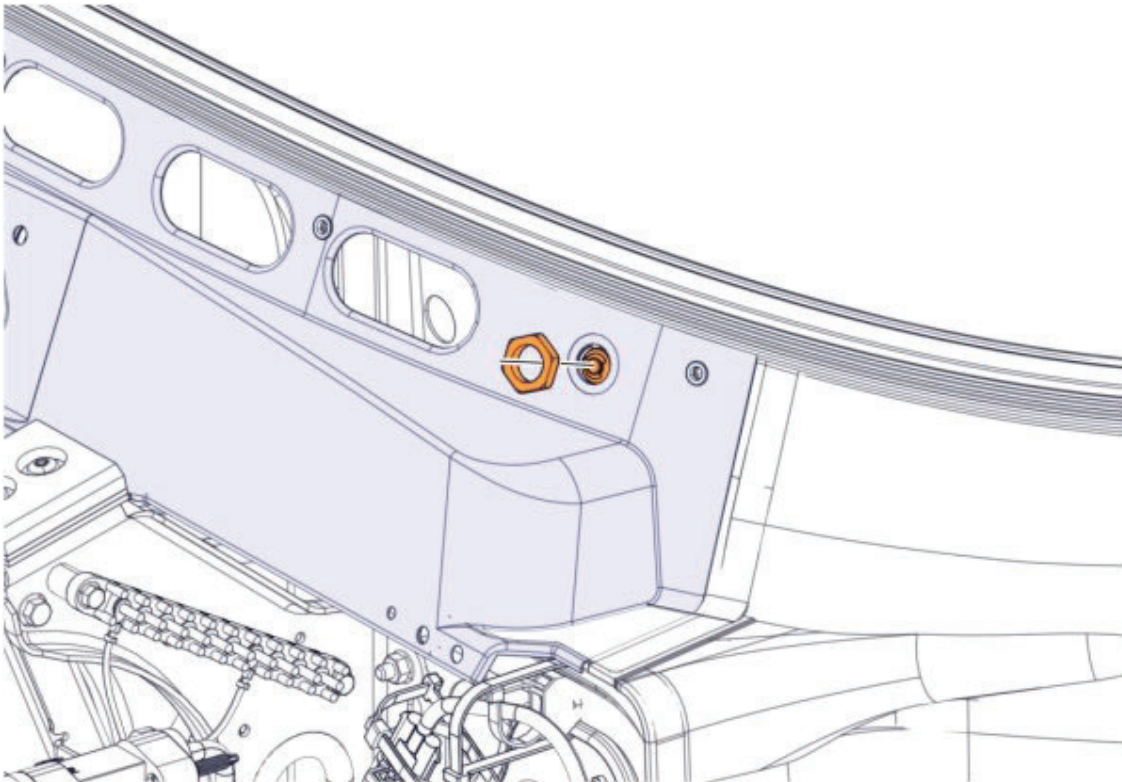
37	Install the arm and pivot assembly.
----	-------------------------------------



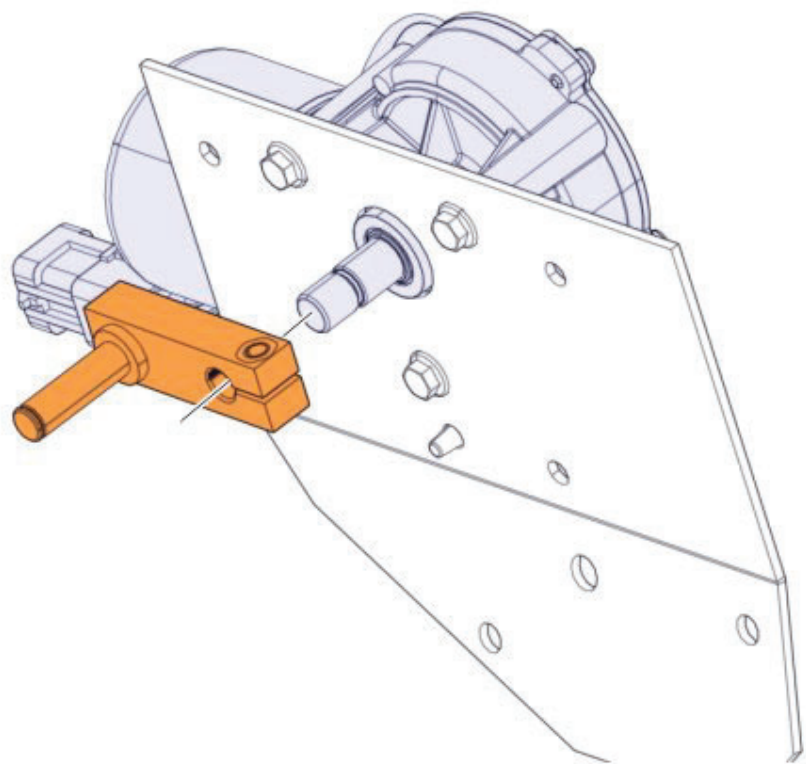
38	Install the pivot.
----	--------------------

39	Install the nut.
----	------------------

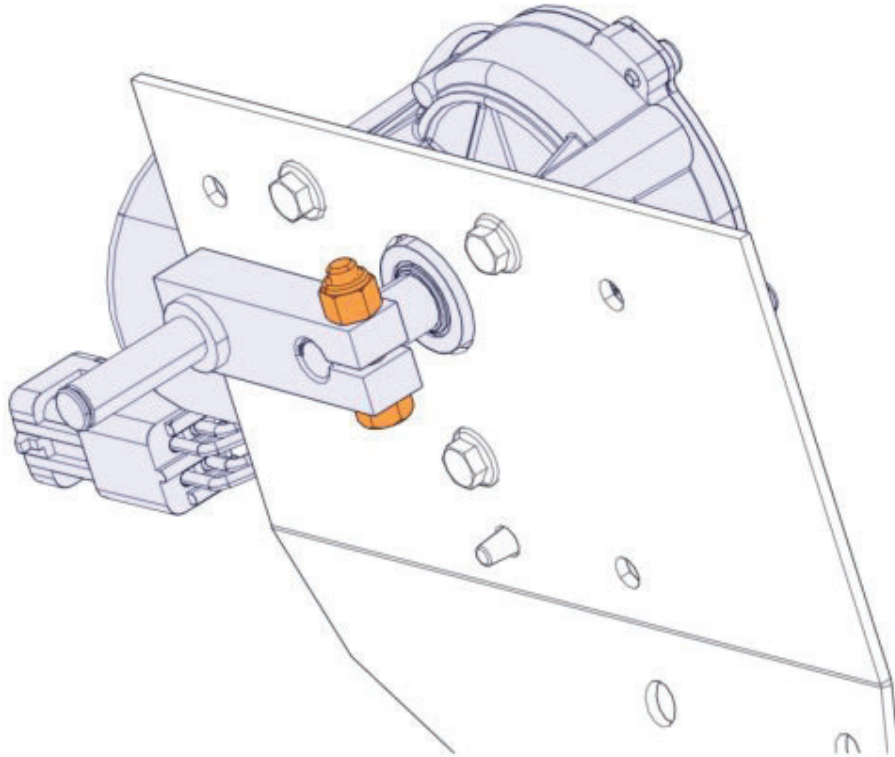
40	Torque tighten the nut.	
	Tightening torque	
	Wiper link, nut	8 ±1 Nm (6 ±1 lb _f -ft)



41	Install the bell crank.
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42	Install the screw.	
43	Install the nut.	
44	Torque tighten the nut.	
	Tightening torque	
	Wiper arm, nut	11.5 ±0.5 Nm (8 ±0.4 lb _f ·ft)

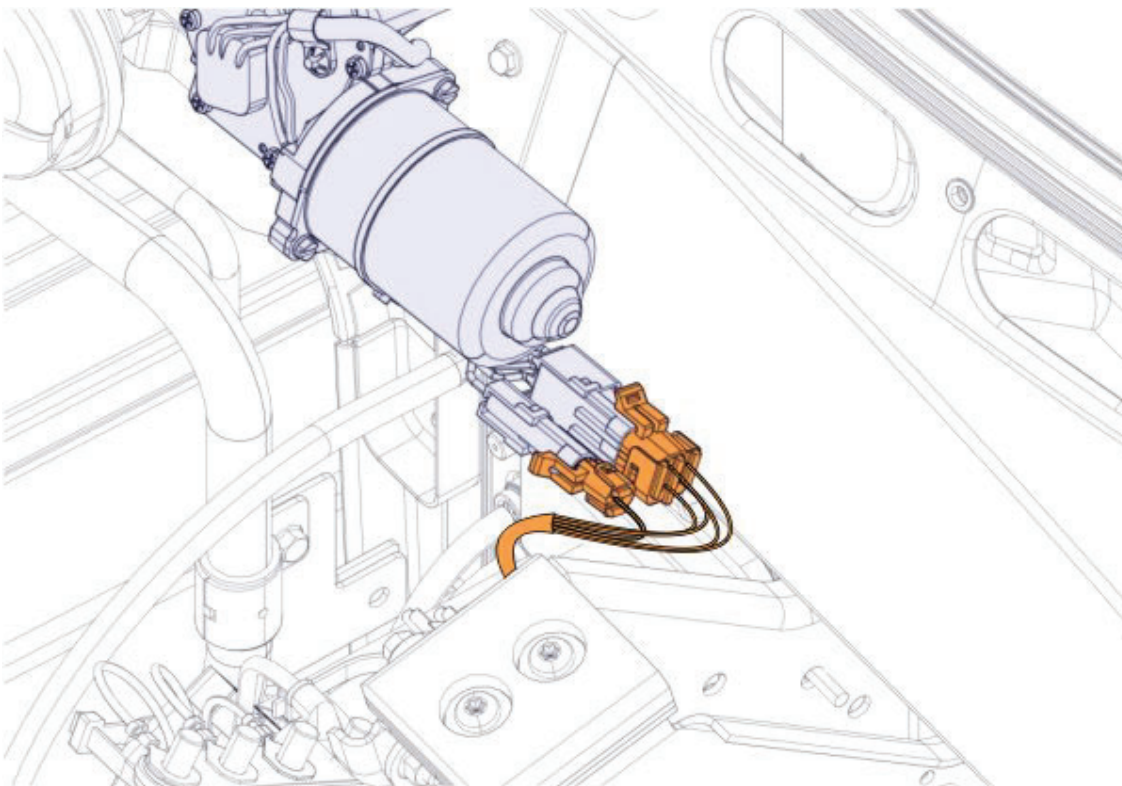


45 Connect the connectors.



Note

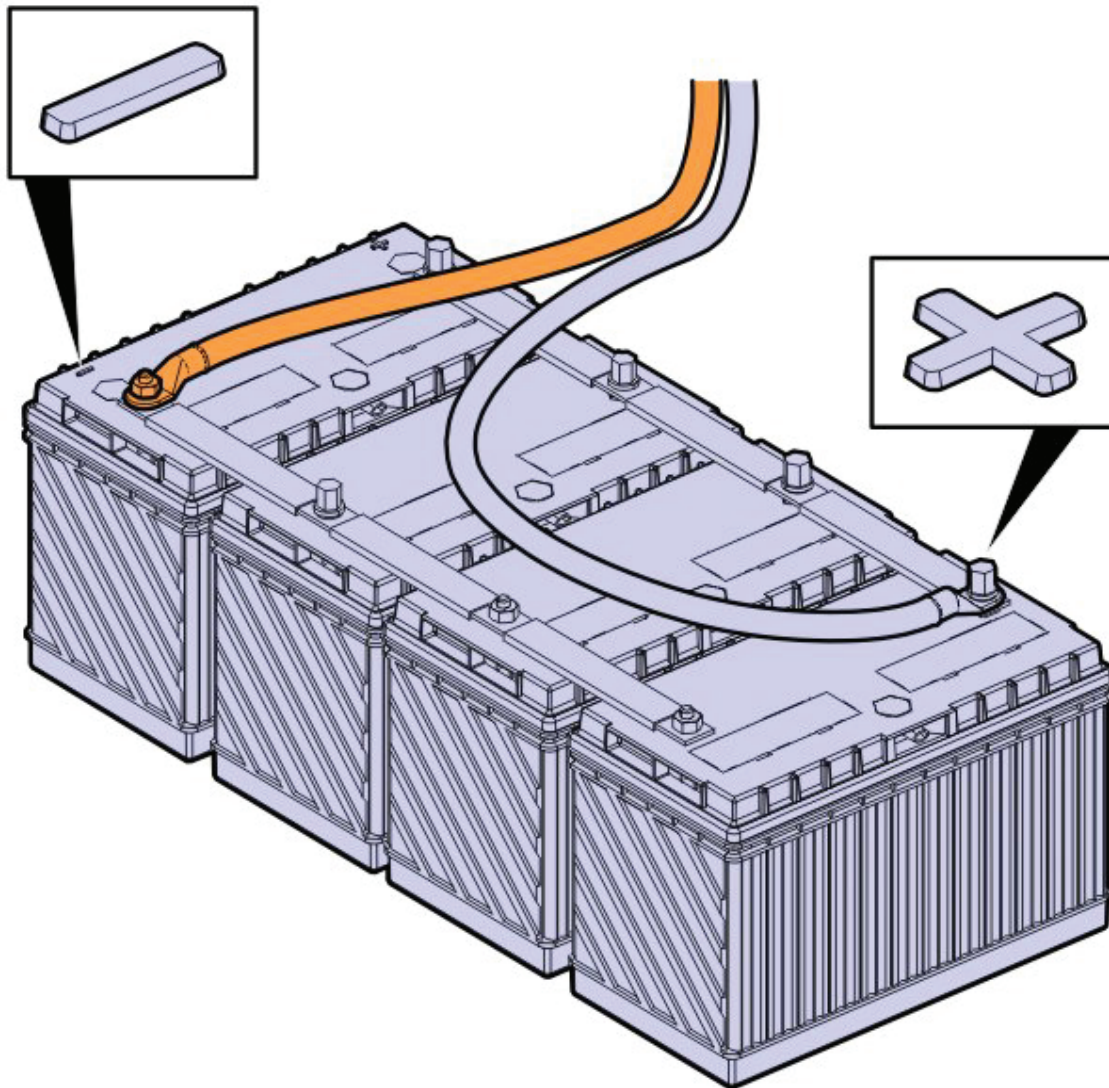
As noted.



46 Connect the cable to the negative terminal.

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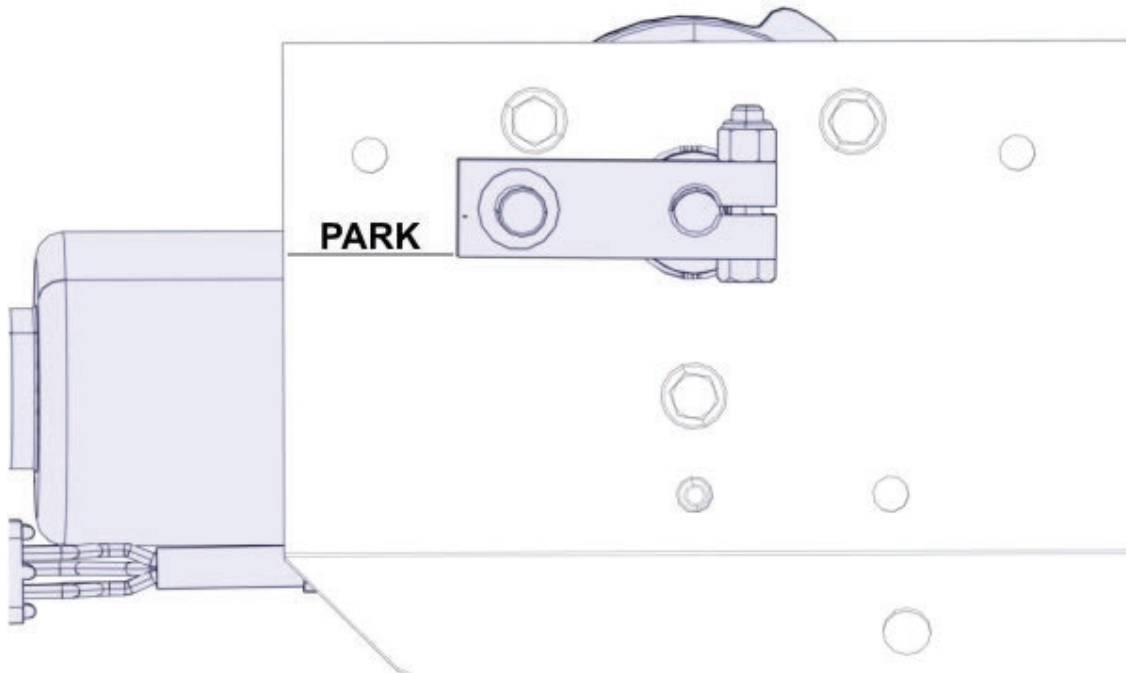


- 47 Cycle the wiper motor. Allow it to stop in its home position. Assure that the bell crank has stopped in the park position. If not remove the bell crank and readjust.

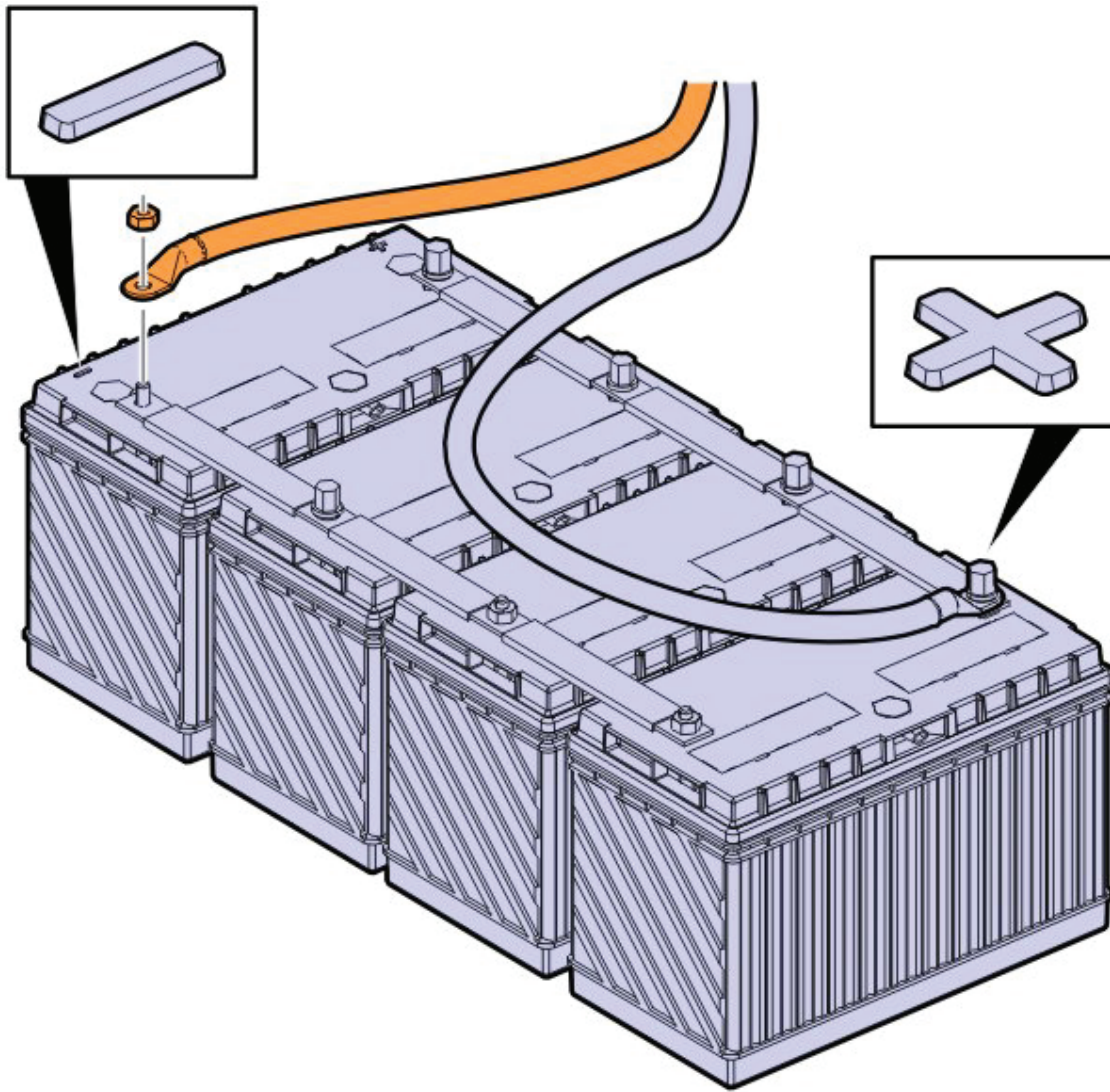
**Note**

Use assistance as needed.

Caution: Rotating parts during this operation.



48	Disconnect the cable from the negative terminal.
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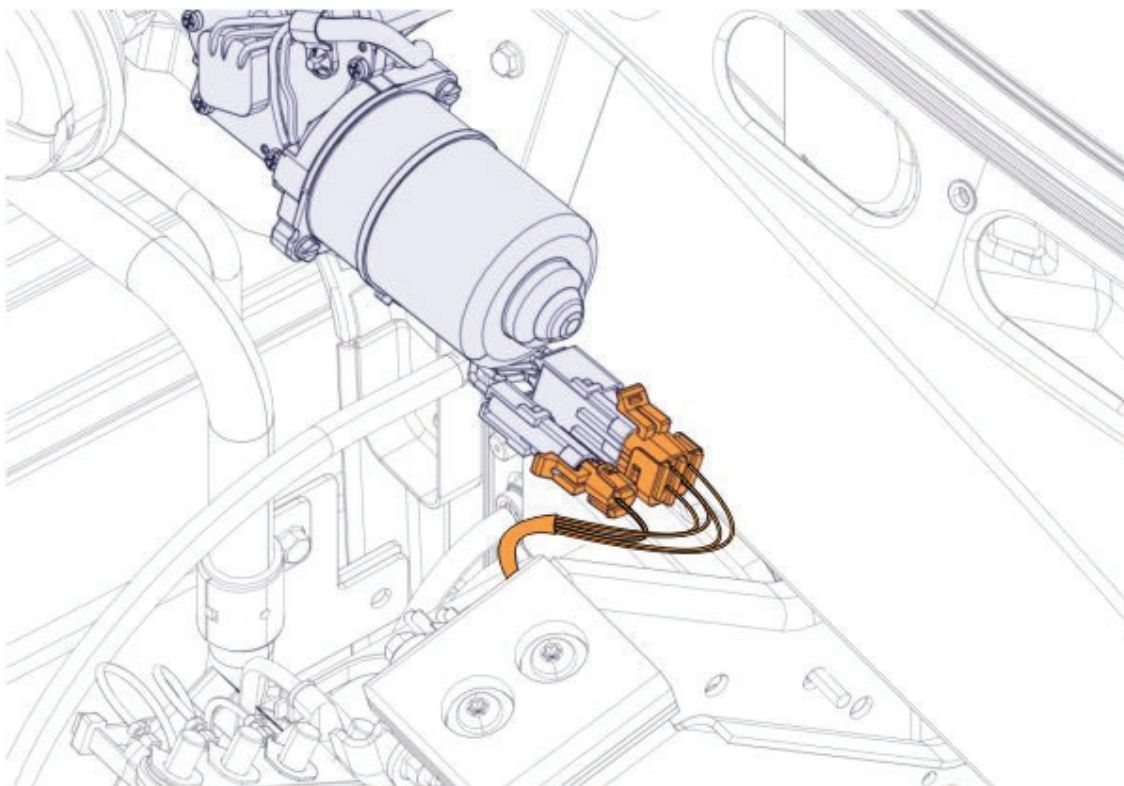


49 Disconnect the connectors.

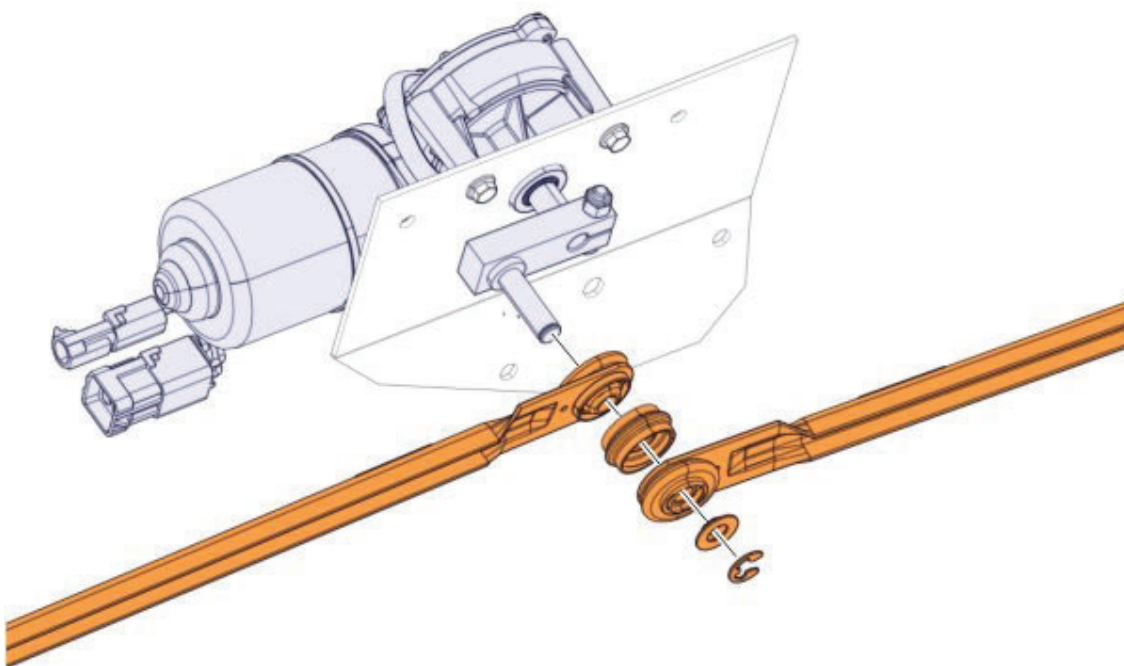


Note

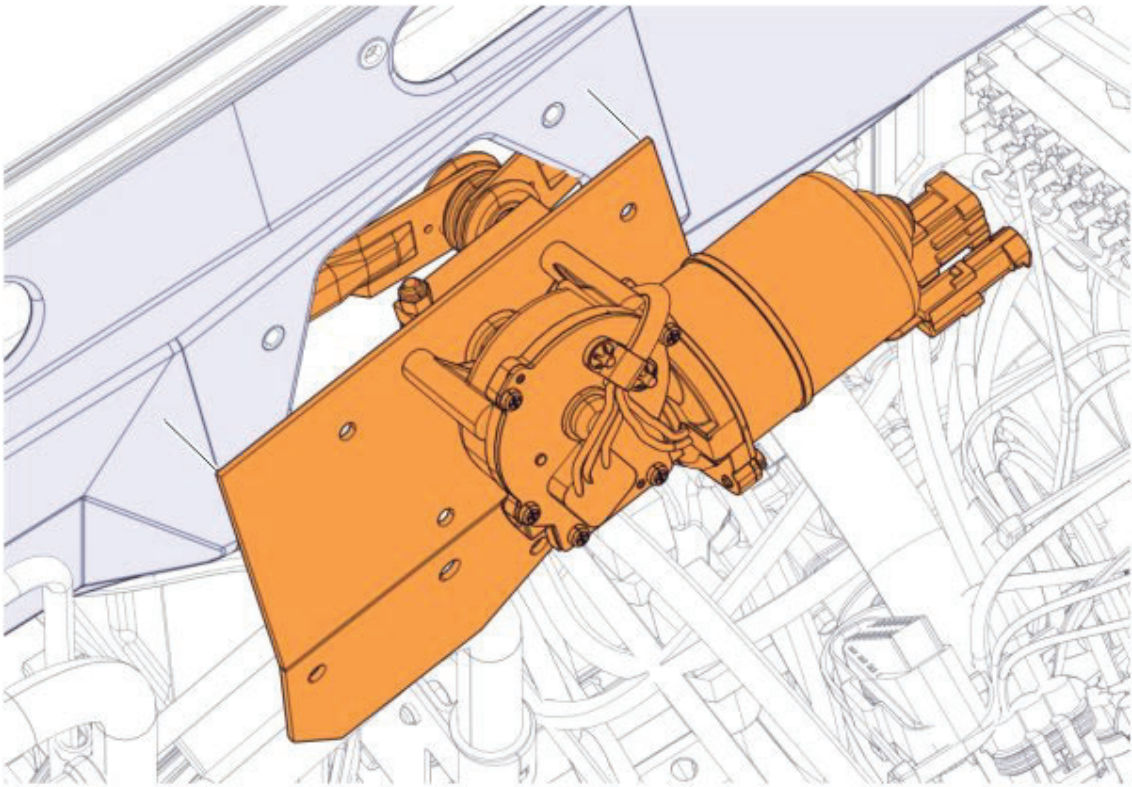
Note the positions.



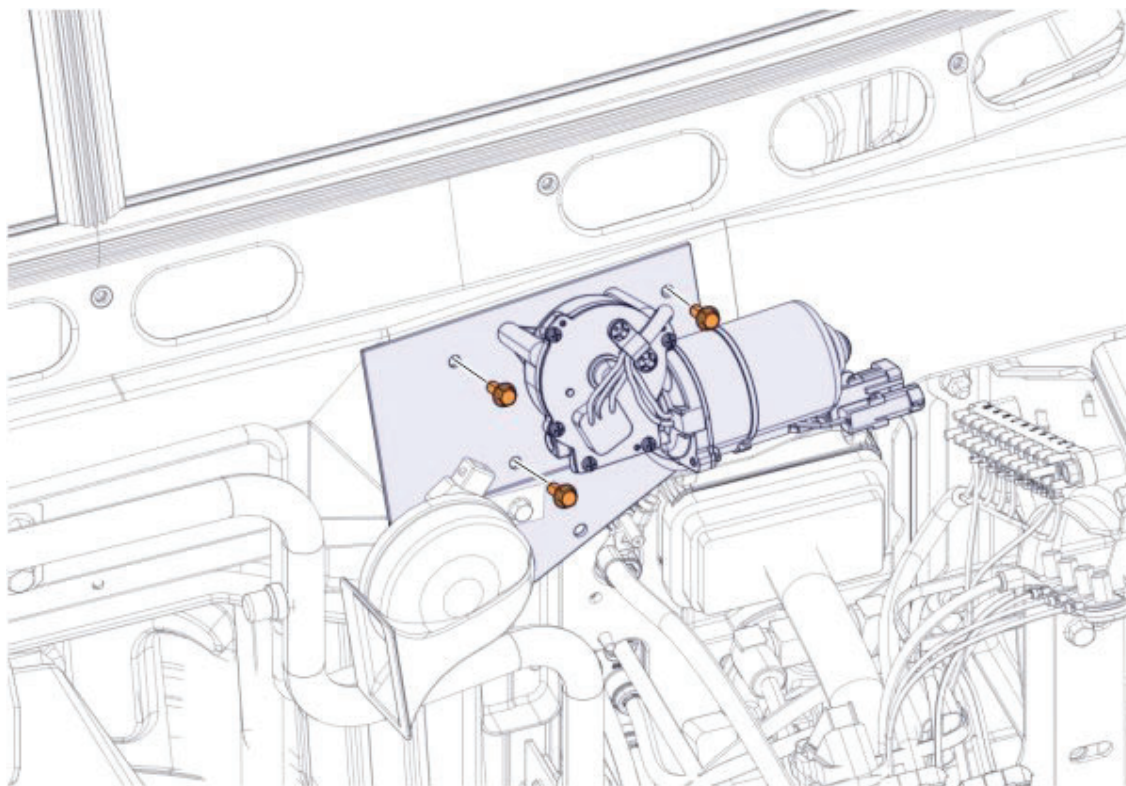
50	Install the linkage.
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51	Position the wiper motor.
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52	Install the screws.	
53	Tighten the screws to torque.	
	Tightening torque	
	Wiper assembly mounting plate, fastener	6 ±1 Nm (4 ±1 lb _f ·ft)

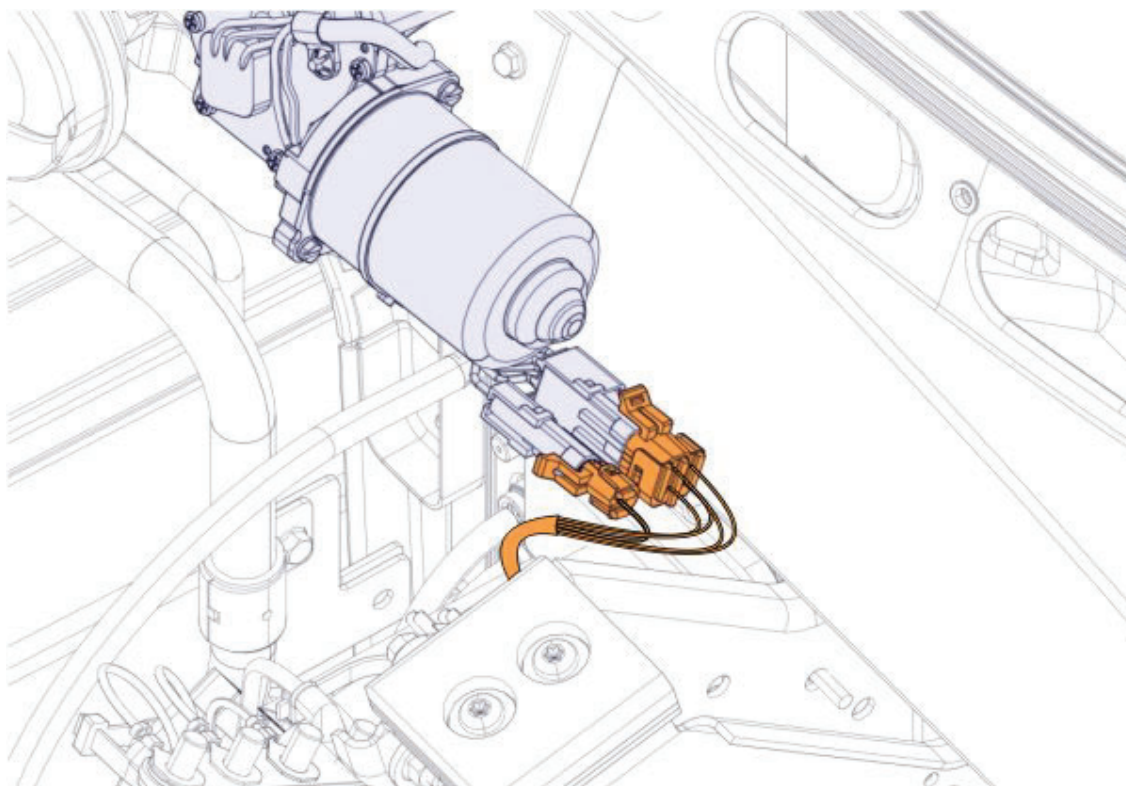


54 Connect the connectors.



Note

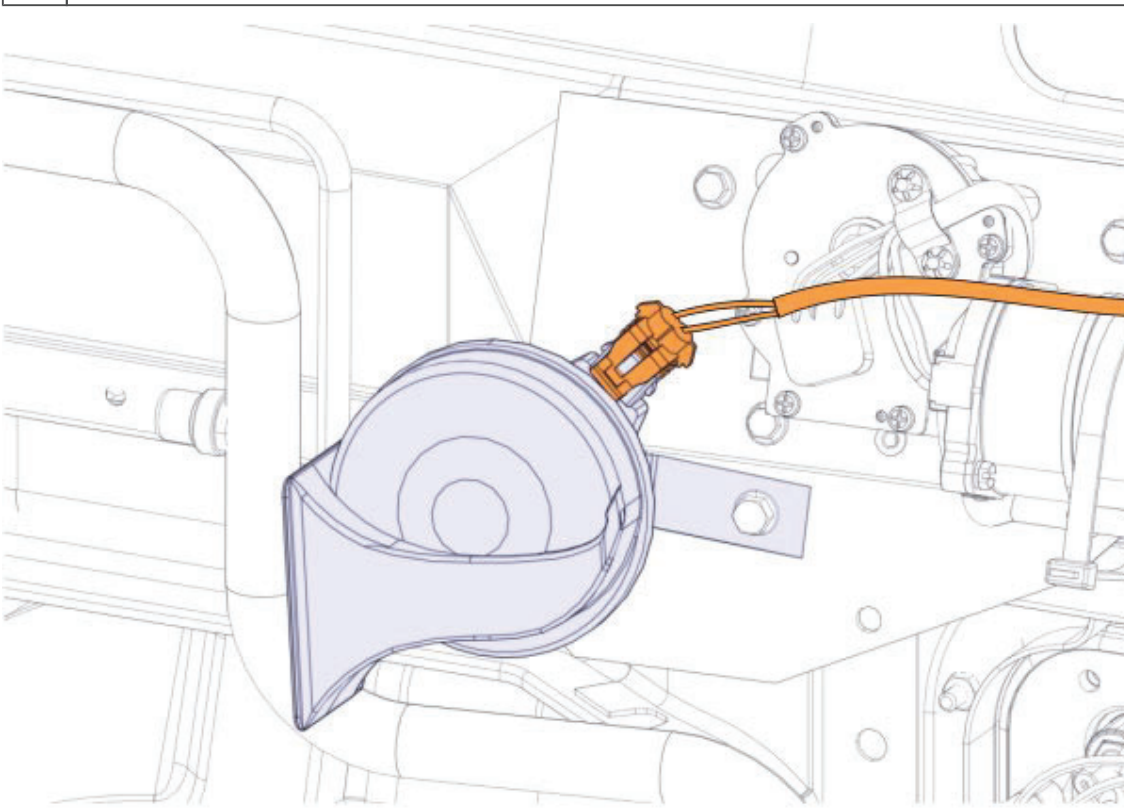
As noted.



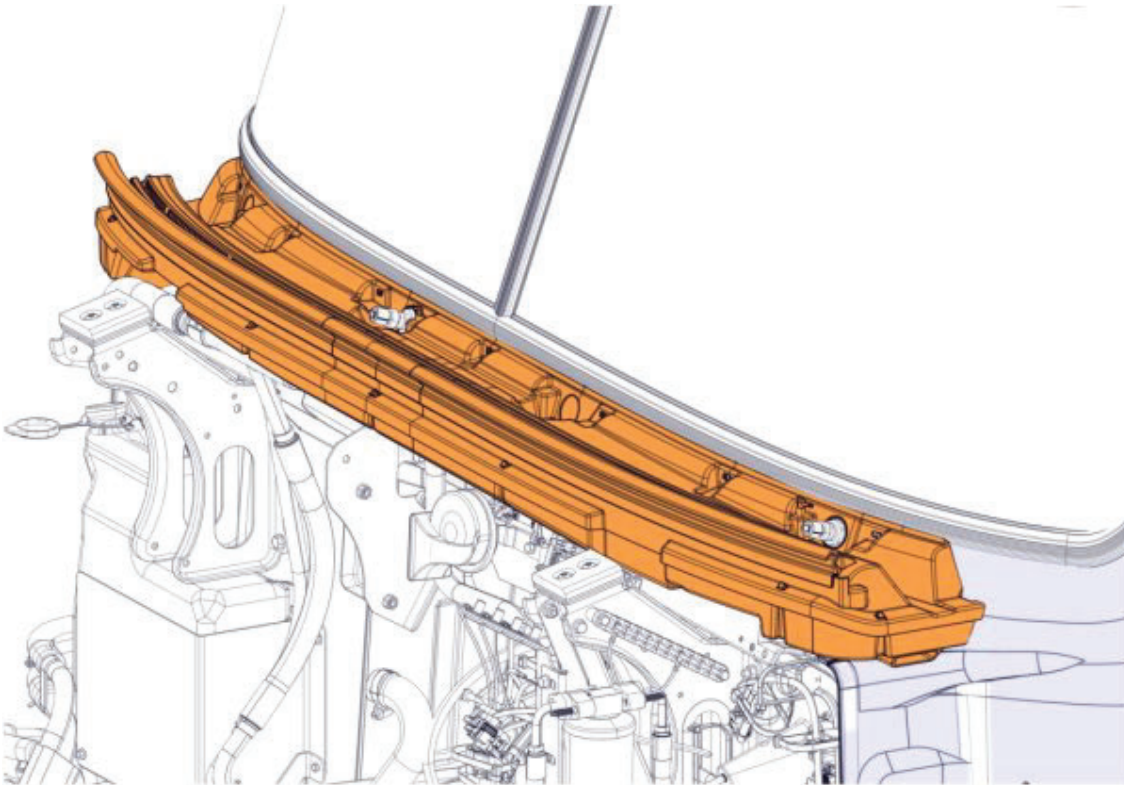
55 Connect the connector.

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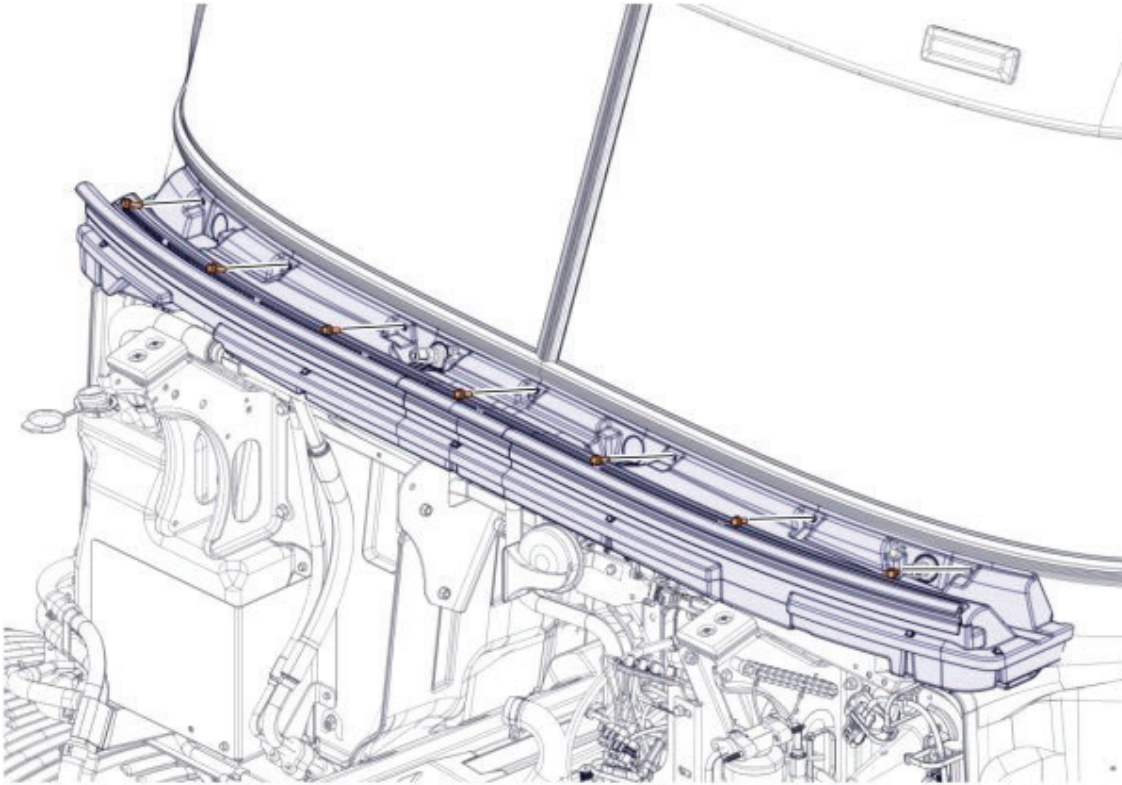
56	Install the cowl.
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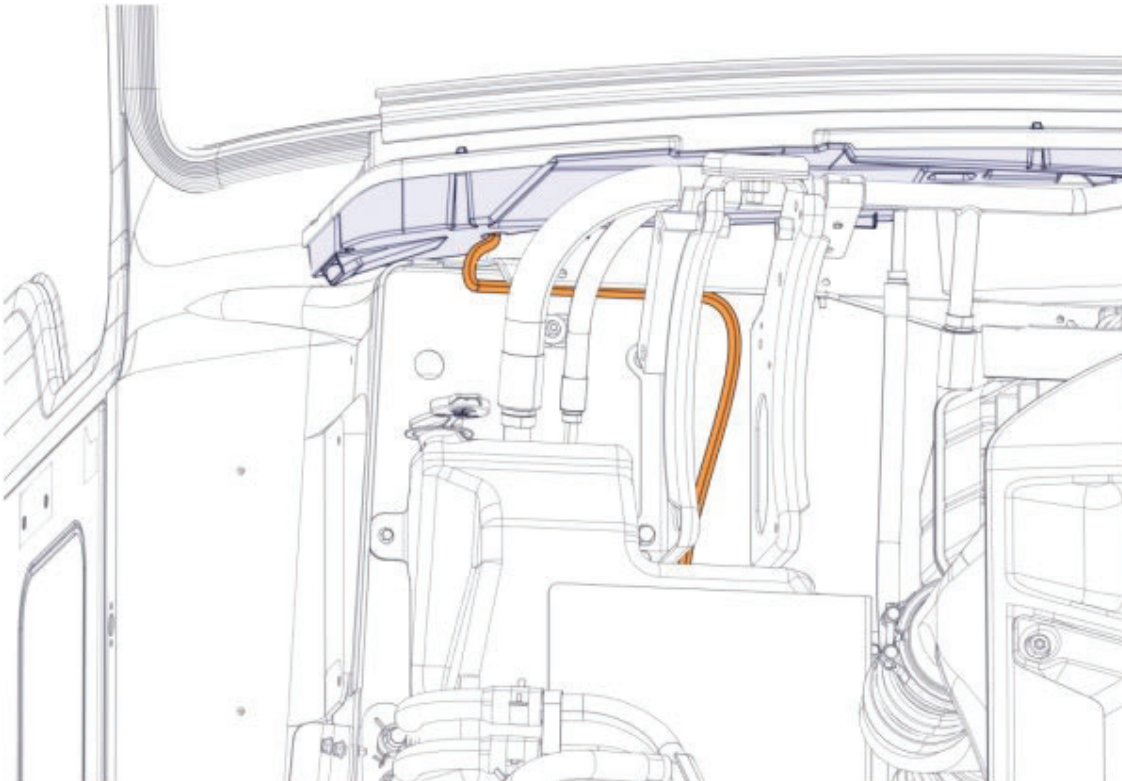
57	Install the screws.
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58	Torque tighten the screws.
----	----------------------------

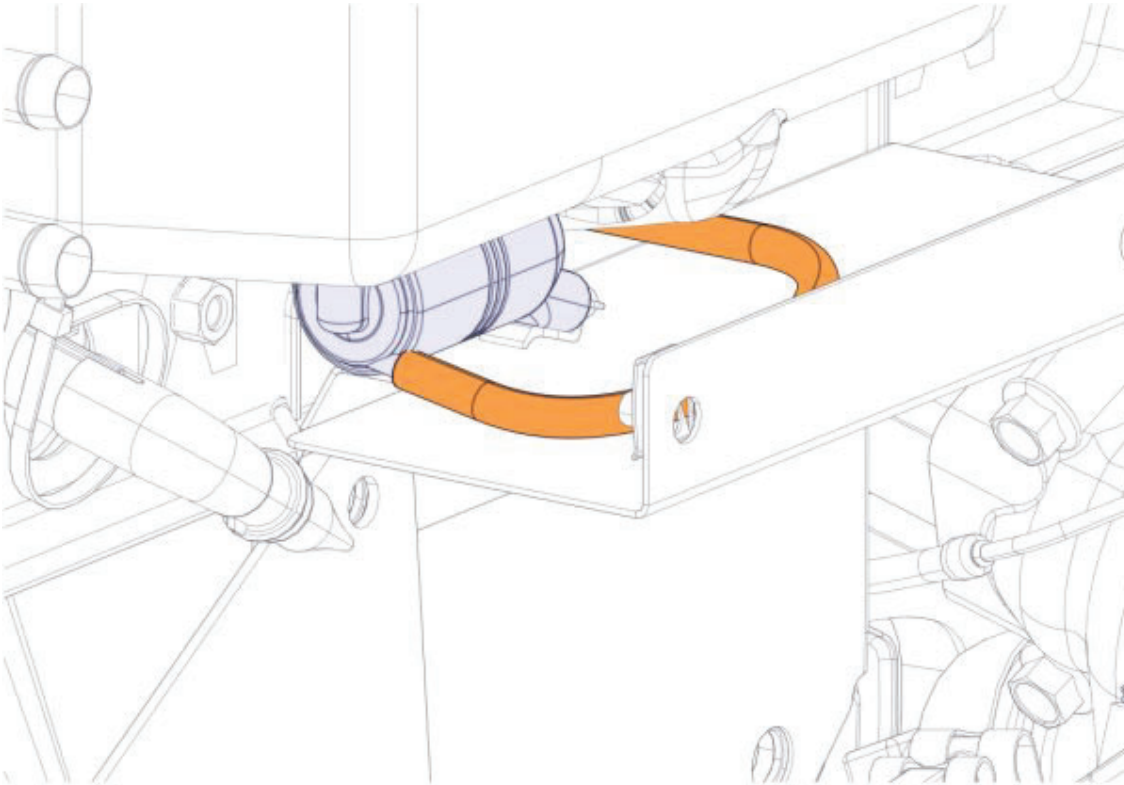
Tightening torque	
Air inlet, screw	$8 \pm 2 \text{ Nm}$ ($6 \pm 1 \text{ lb}_f\text{-ft}$)



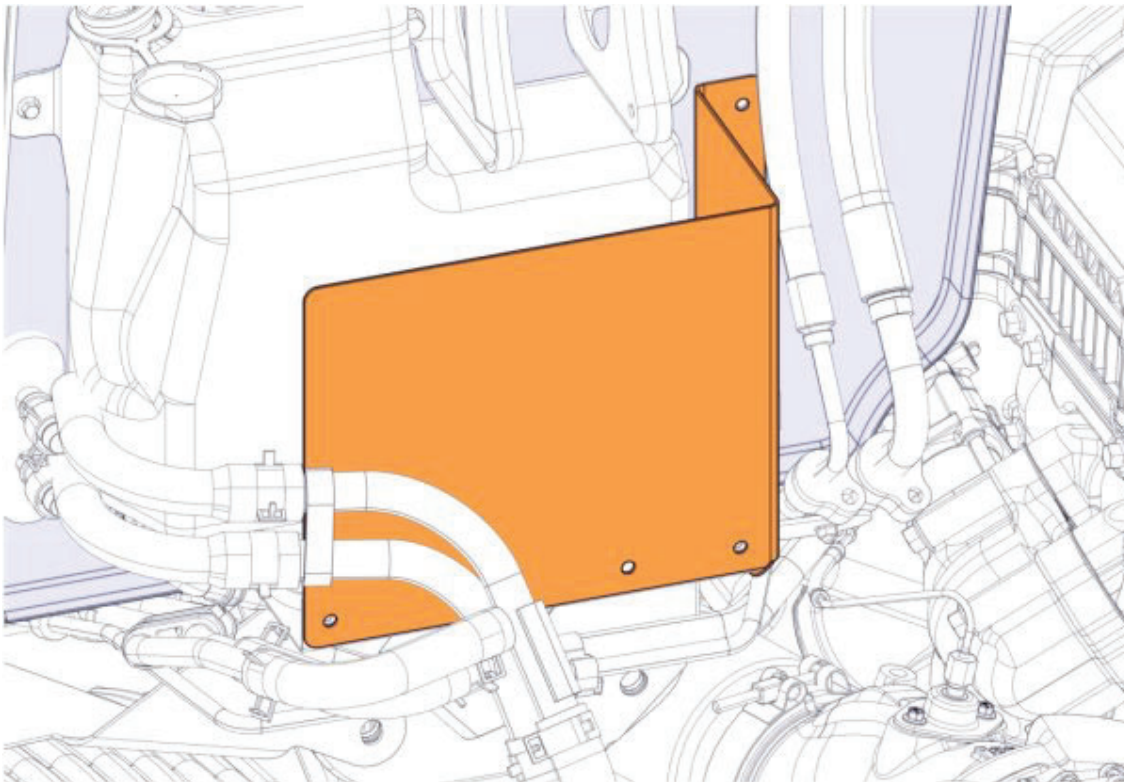
59 Install the hose.



60	Connect the hose.
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61	Install the shield.
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62	Install the screws.
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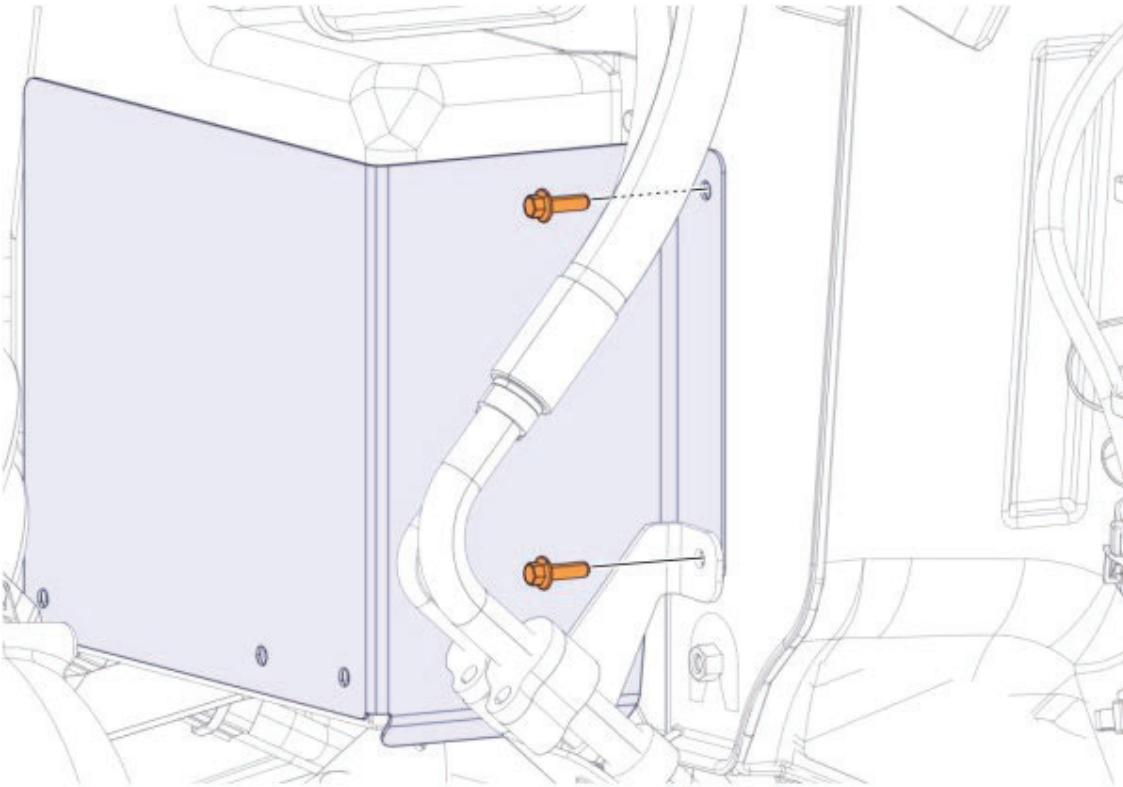
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63	Torque tighten the screws.	
	Tightening torque	
	Wiper assembly shield, fastener	6 ±1 Nm (4 ±1 lb _f ·ft)

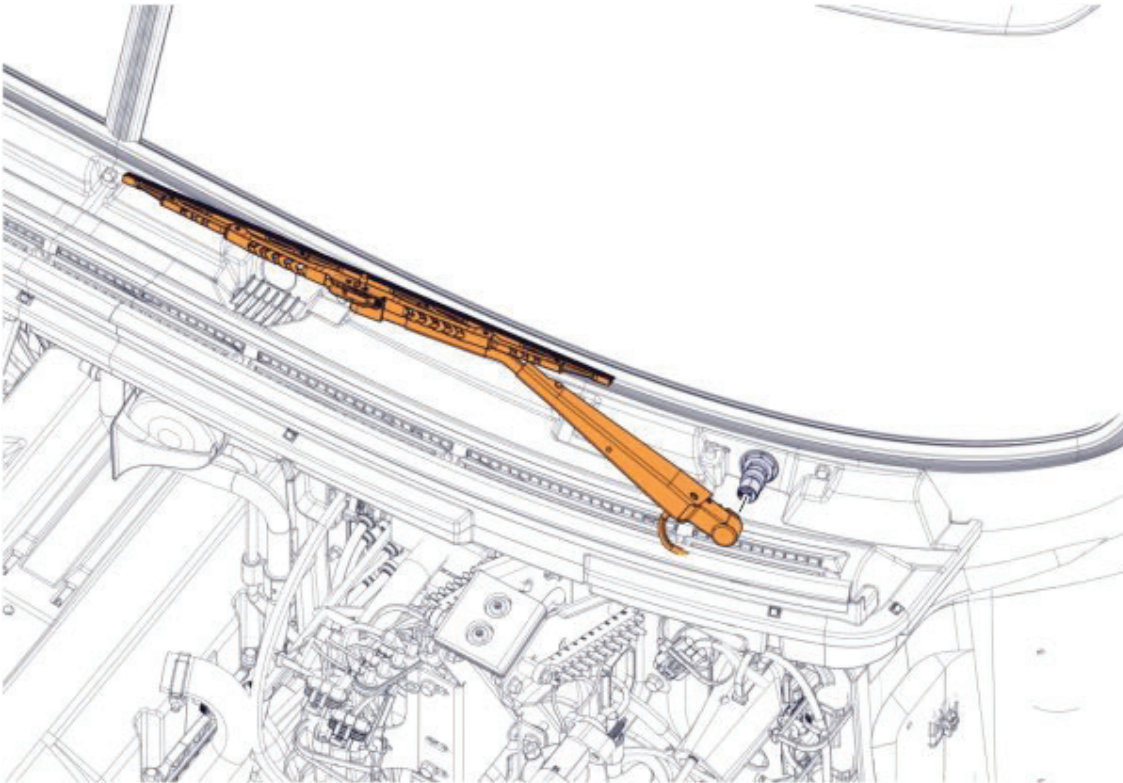


64	Install the screws.	
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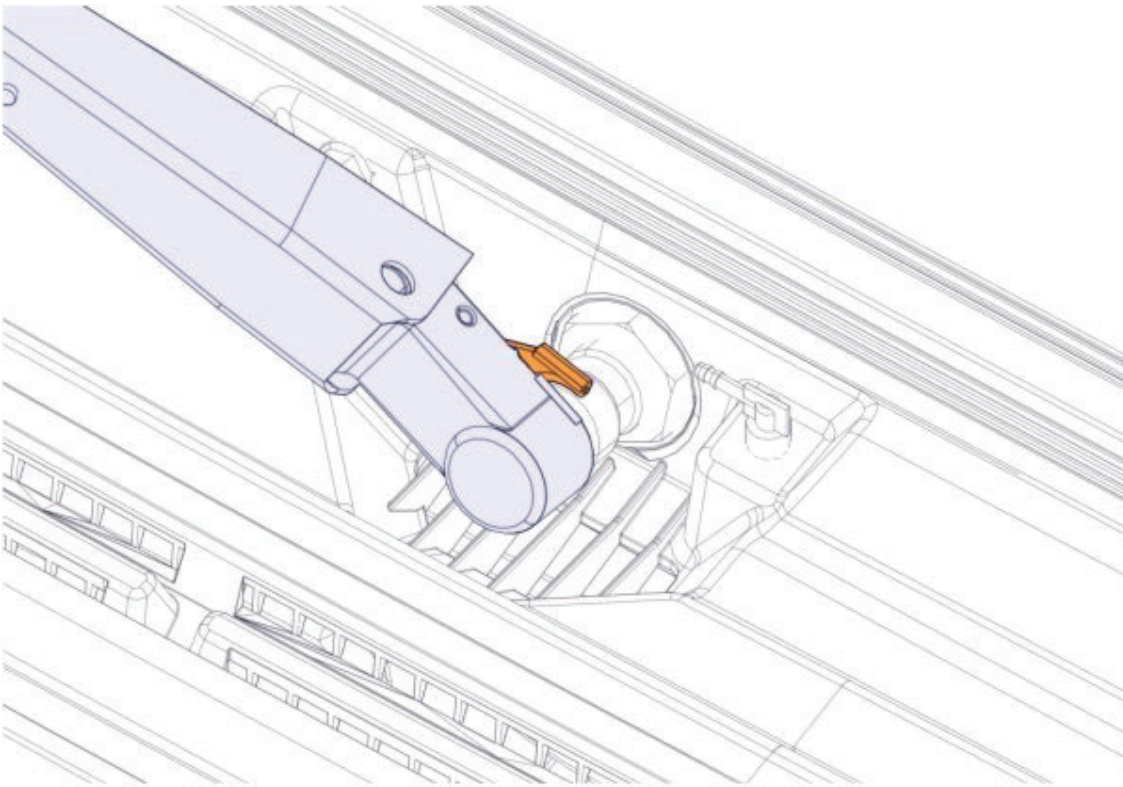
65	Torque tighten the screws.	
	Tightening torque	
	Wiper assembly shield, fastener	6 ±1 Nm (4 ±1 lb _f ·ft)



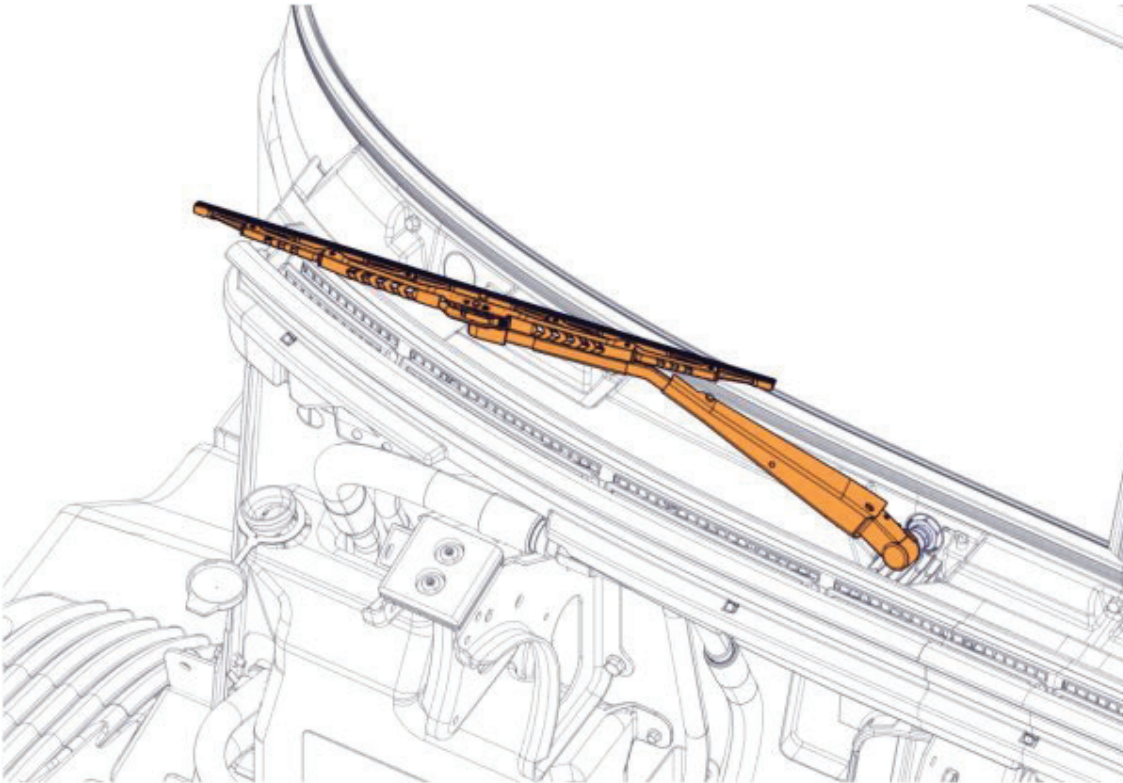
66	Install the wiper arms, both sides.
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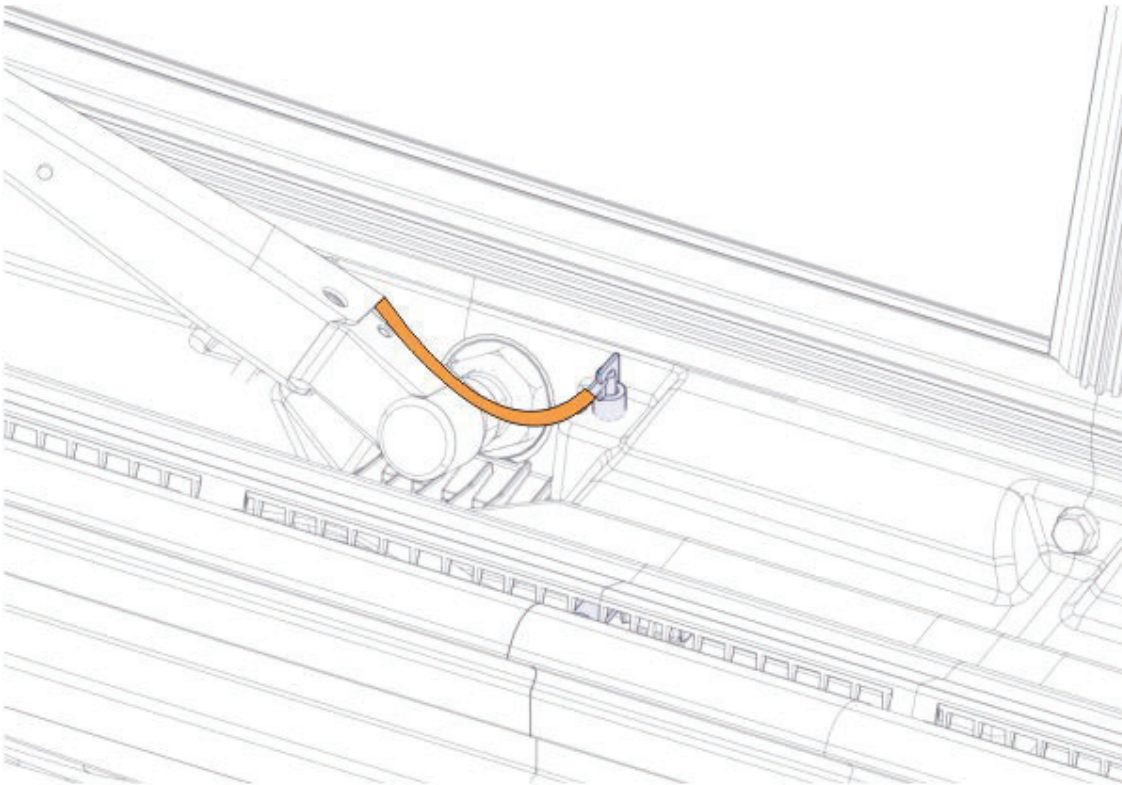
67	Push the release tab, both sides.
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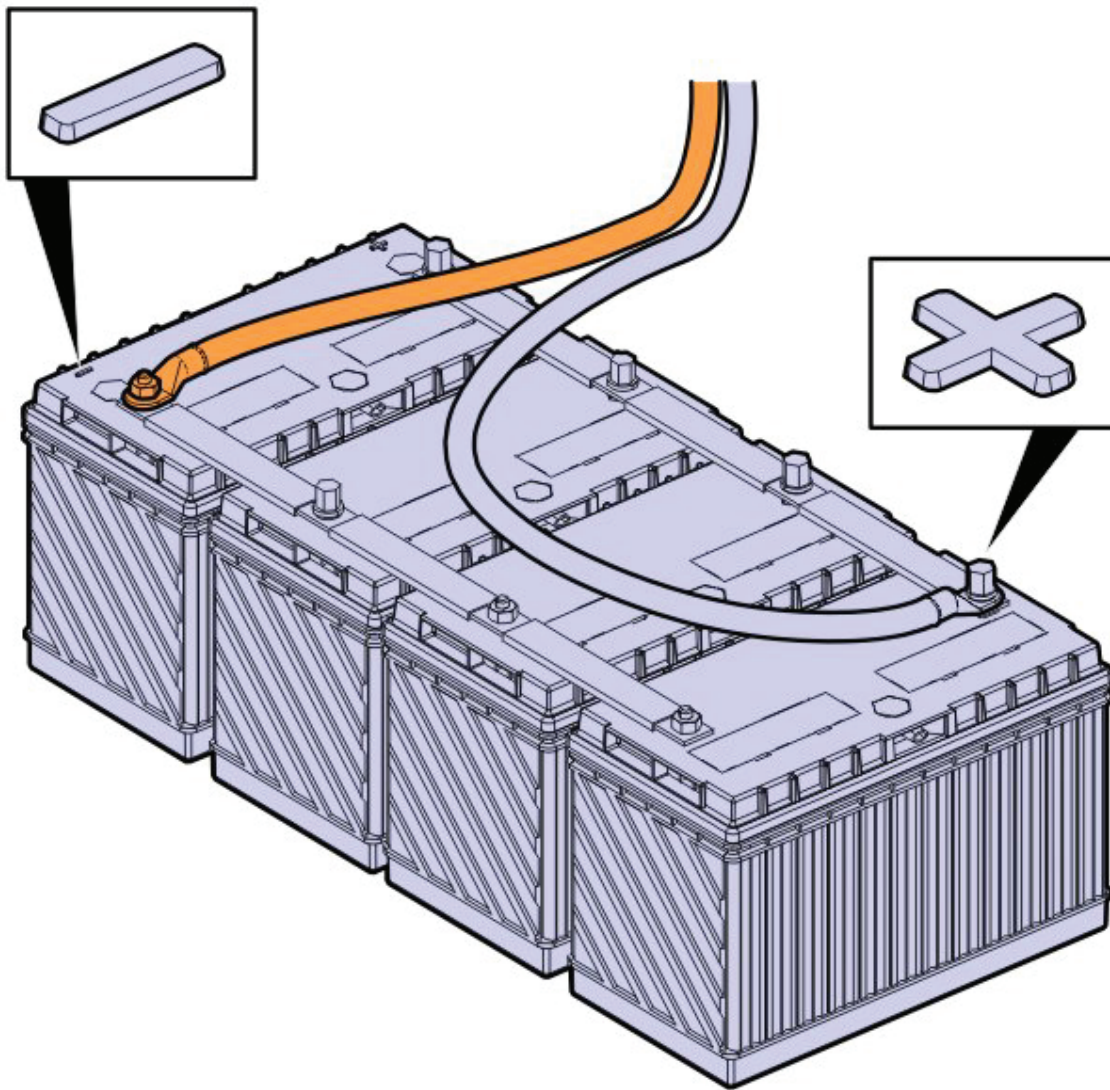
68	Rest the wipers on the windshield, both sides.
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69	Connect the hoses, both sides.
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70	Fill the reservoir with washer fluid. Note Use the previously drained washer fluid first (after filtering). Then top off the reservoir with new product.
71	Lower the hood. Note Ensure that the hood is latched.
72	Connect the cable to the negative terminal.



73	Remove the wheel chocks.
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