

Media Number : 000017 – 24U

Issue Date: 8/30/2024

Model And Serial Number(s):

BXC30 – BXC80

Subject:

Lift Link Telematics Installation

Cause:

New Lift Link Telematics solution being provided for current model trucks.

Resolution:

Providing installation instructions for field install of Lift Link Telematics.

WARNING

- Do not operate a lift truck unless you are qualified and authorized and have read and understand the Operation and Maintenance Manual (OMM) or Operating Instructions (BL).
- Do not perform service or repair on lift trucks unless you are qualified and authorized and have read and understand the Service Manual or Service Handbook (SH) and any applicable safety guidelines prior to working on equipment.
- Improper operation, service, or repair could result in injury or death.
- Make all repairs with the lift truck parked on a level, hard surface. Block the lift truck to prevent rolling while working on, or under, the lift truck. Use a tire cage if tires are to be replaced or worked on.
- Ensure enforcement of company policy for proper LOCKOUT/TAGOUT procedure. (Please refer to HPK article 000019-15 for general guidelines)
- Disconnect battery prior to working on any electrical components or welding.
- Obey all safety guidelines when welding on or near flammable fluids. Always have an approved fire extinguisher on hand.

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This document contains information to assist with scheduled or as-needed product service.
Always refer to all Safety and Cautionary Instructions and Warnings in the applicable Service Manual and Operation and Maintenance Manual.

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Step 1: Make sure you have all the required components (included in kit part number **W0001-RK080**).



Telematics Harness
24014 – KT020



Ram Mount Kit
69973 – KT005

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Step 1 cont:



Lift Link Display
24058 – KT010

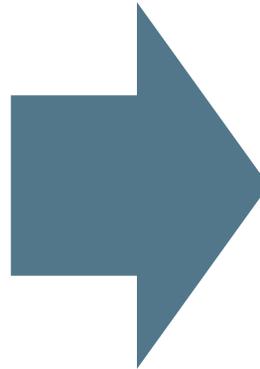
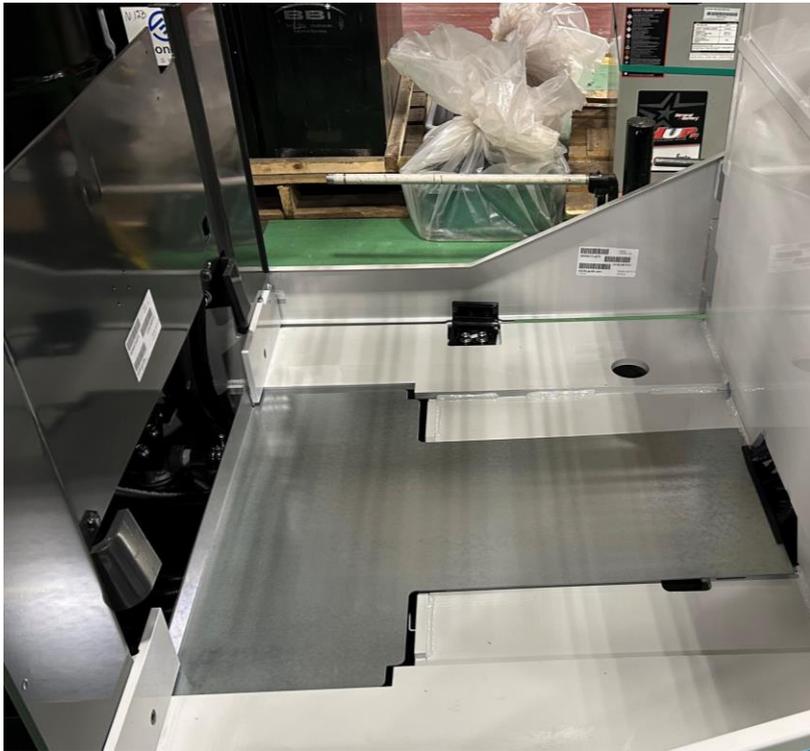


Impact Sensor
26820 – KT010

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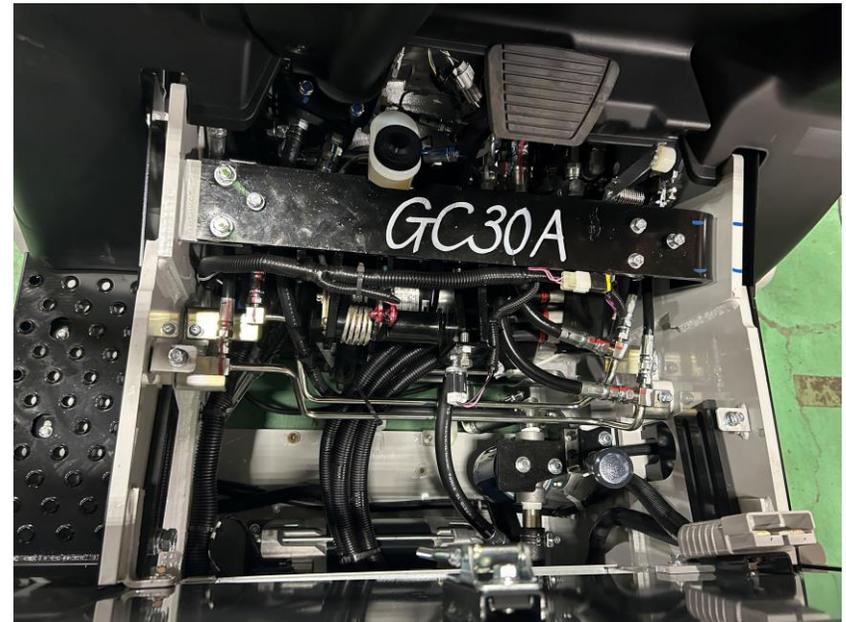
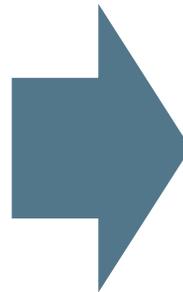
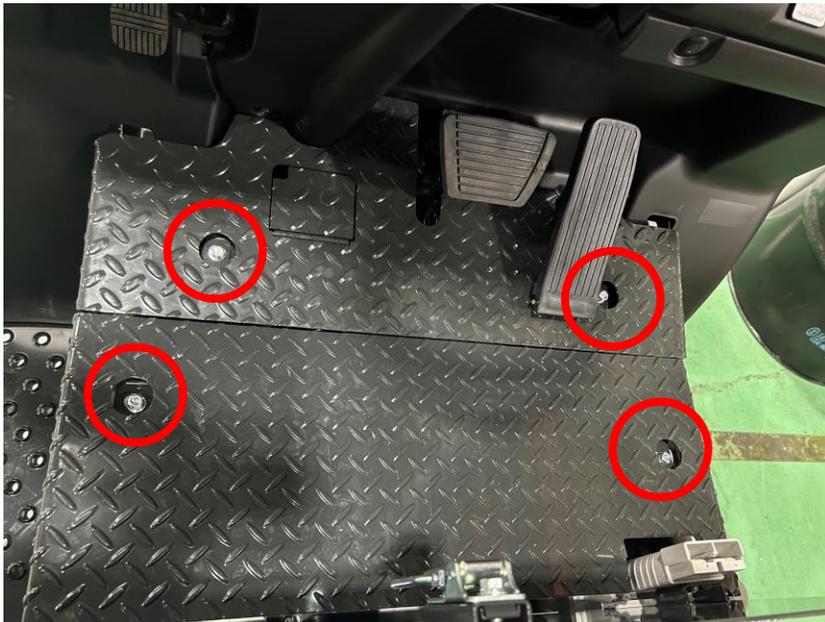
Step 2: Remove the battery from the truck, then remove the plate covering the harness.



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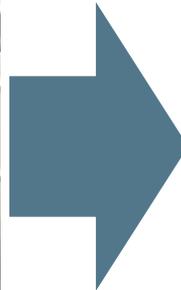
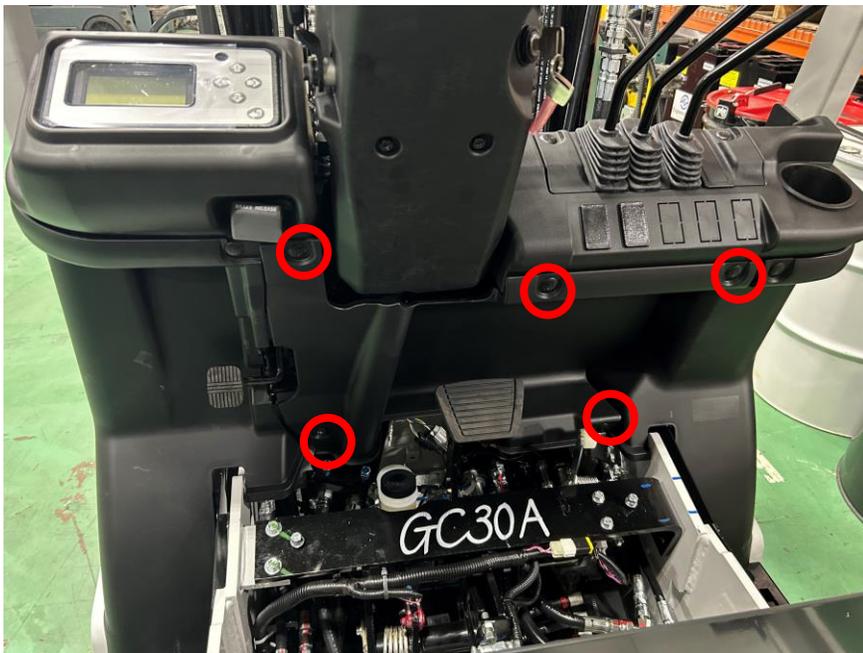
Step 3: Remove the 4 bolts for the floor plates and remove the plates.



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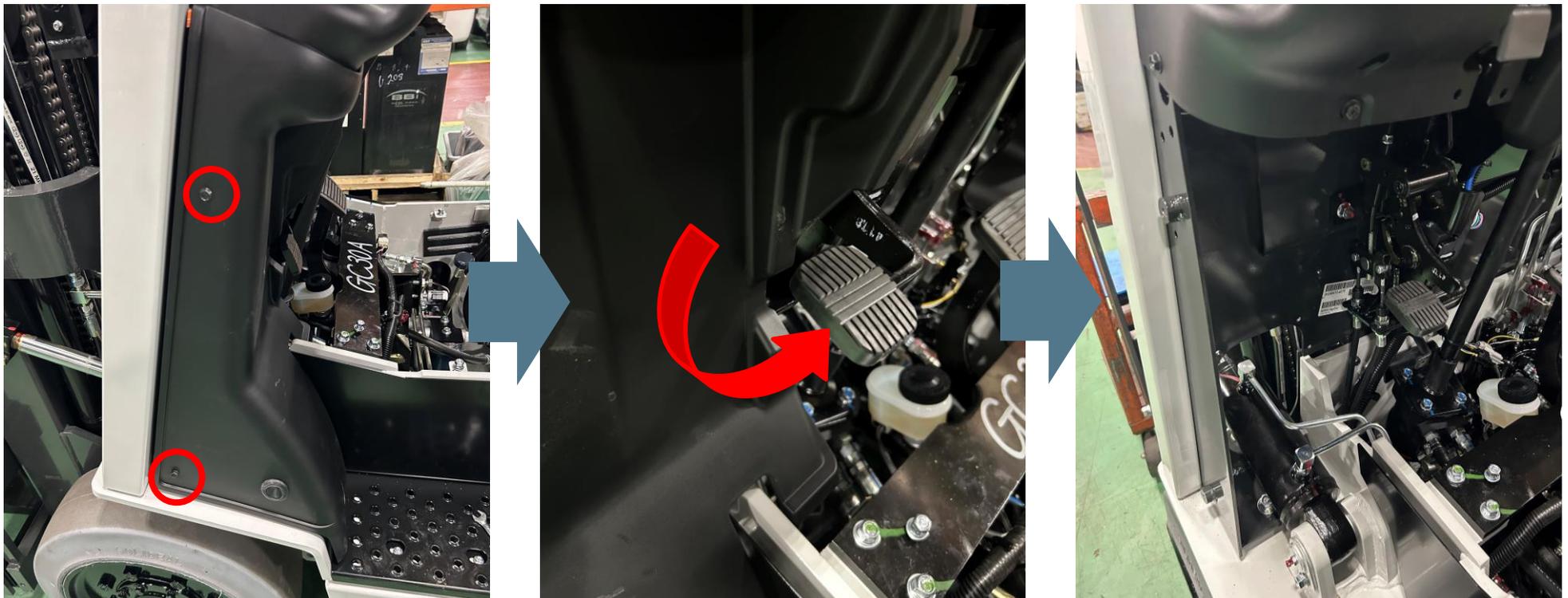
Step 4: Remove the bolt and pop rivets holding on the center kick plate, then remove the plate.



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Step 5: Remove the outer bolts and remaining pop rivets holding on the left hand kick panel, then remove the panel. **NOTE:** You will need to disengage the parking brake to remove this panel easier.



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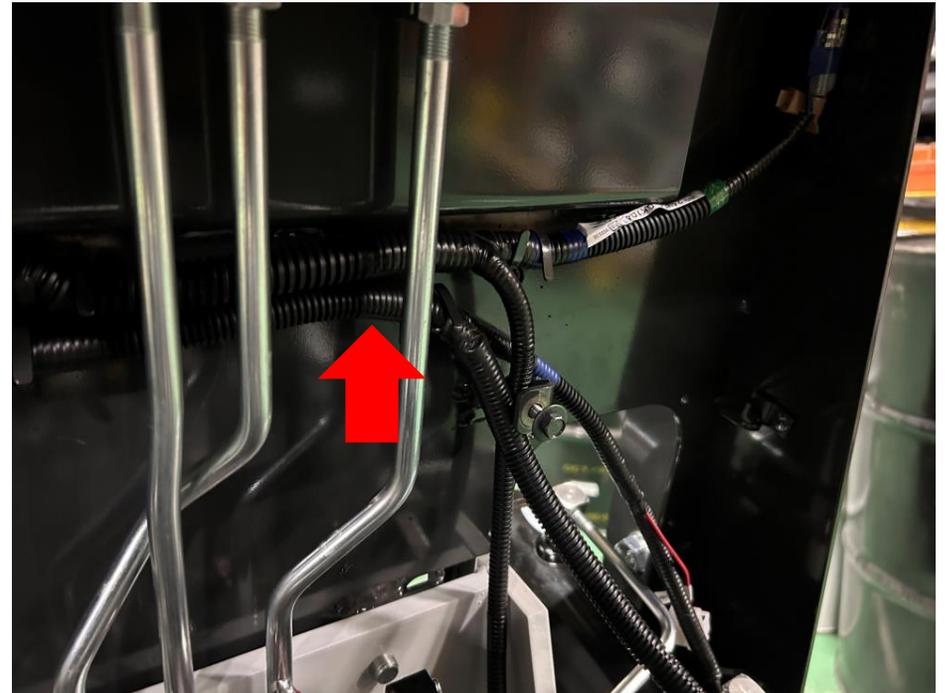
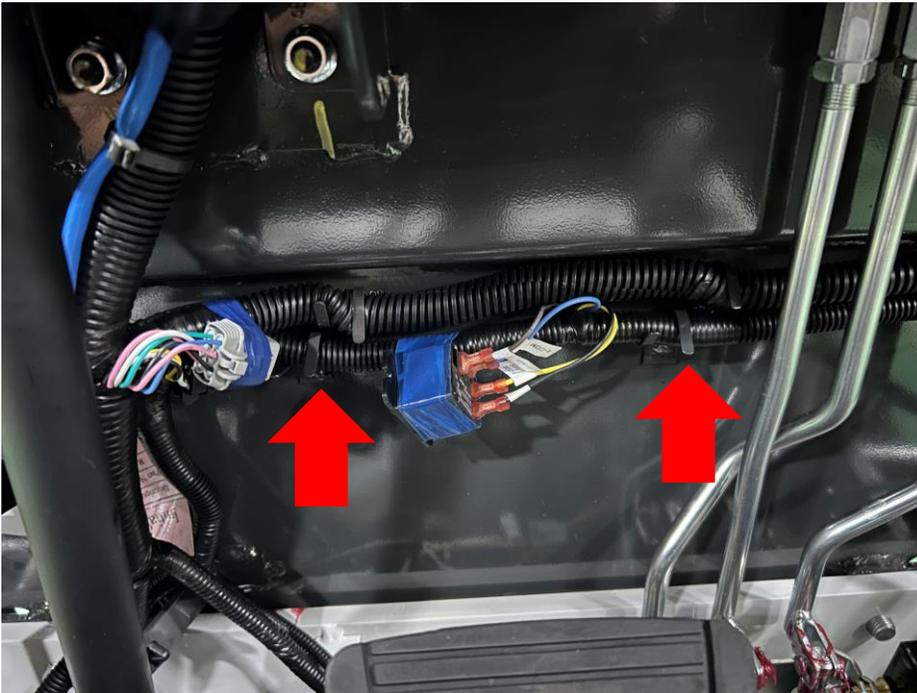
Step 6: Remove the outer bolts and remaining pop rivets holding on the right hand kick panel, then remove the panel.



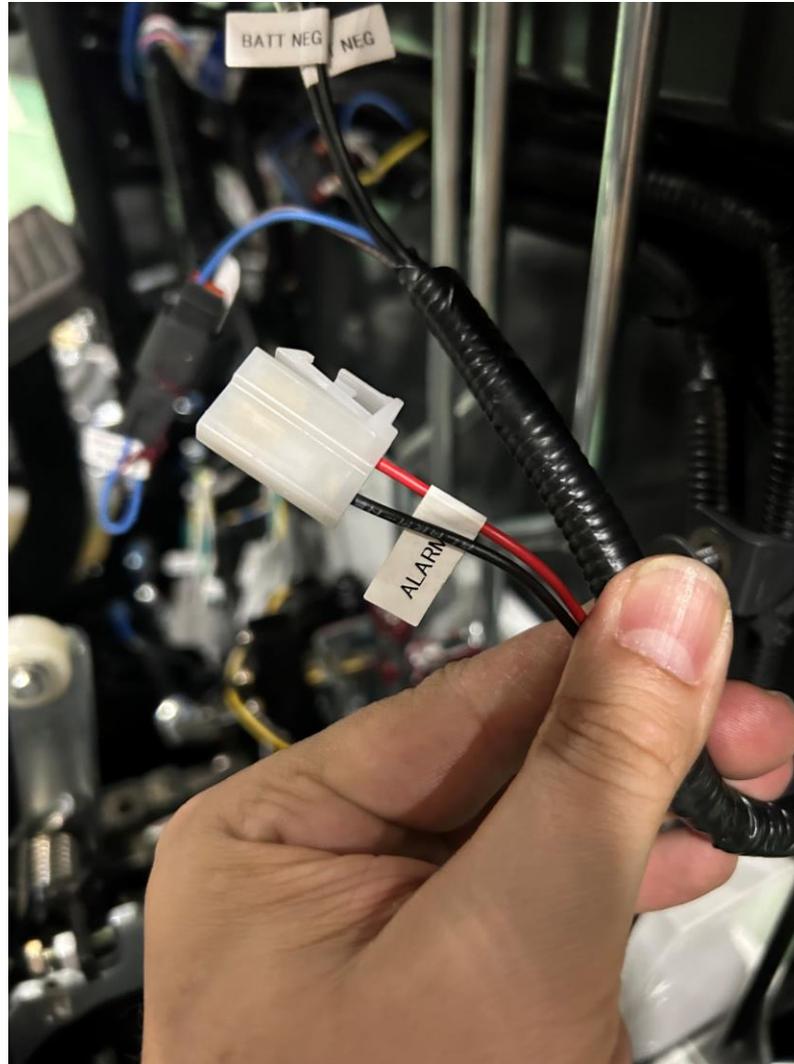
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Step 7: Route telematics harness in the clamps alongside main truck harness under the dash, keeping the end with the bullet connectors towards the right. Use zipties to secure the harness along with the main harness.



Step 8: The connector labeled “Alarm” isn’t used for basic telematics, so that can be taped back to the harness.



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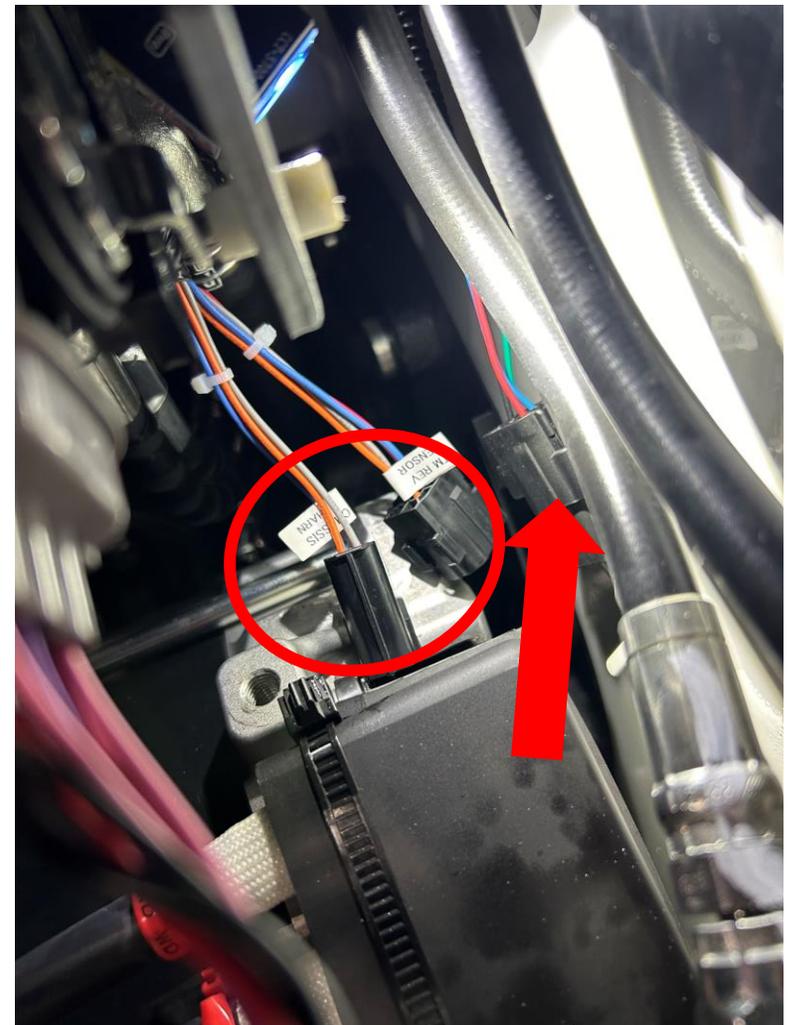
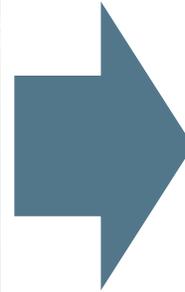
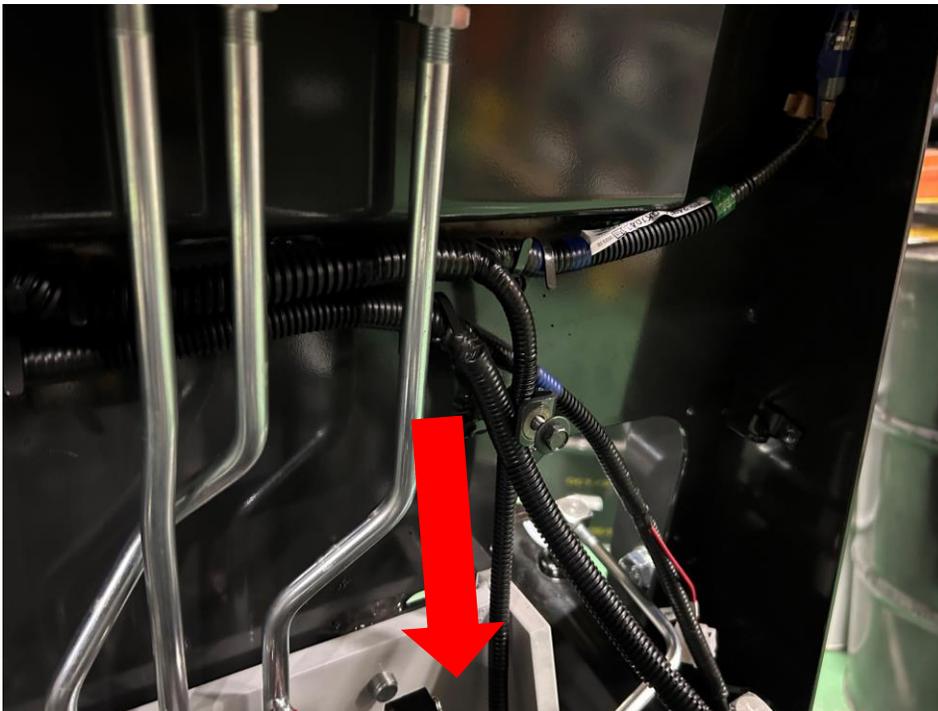
Step 9: Connect telematics harness to the chassis harness ground (black wire) under the cup holder.



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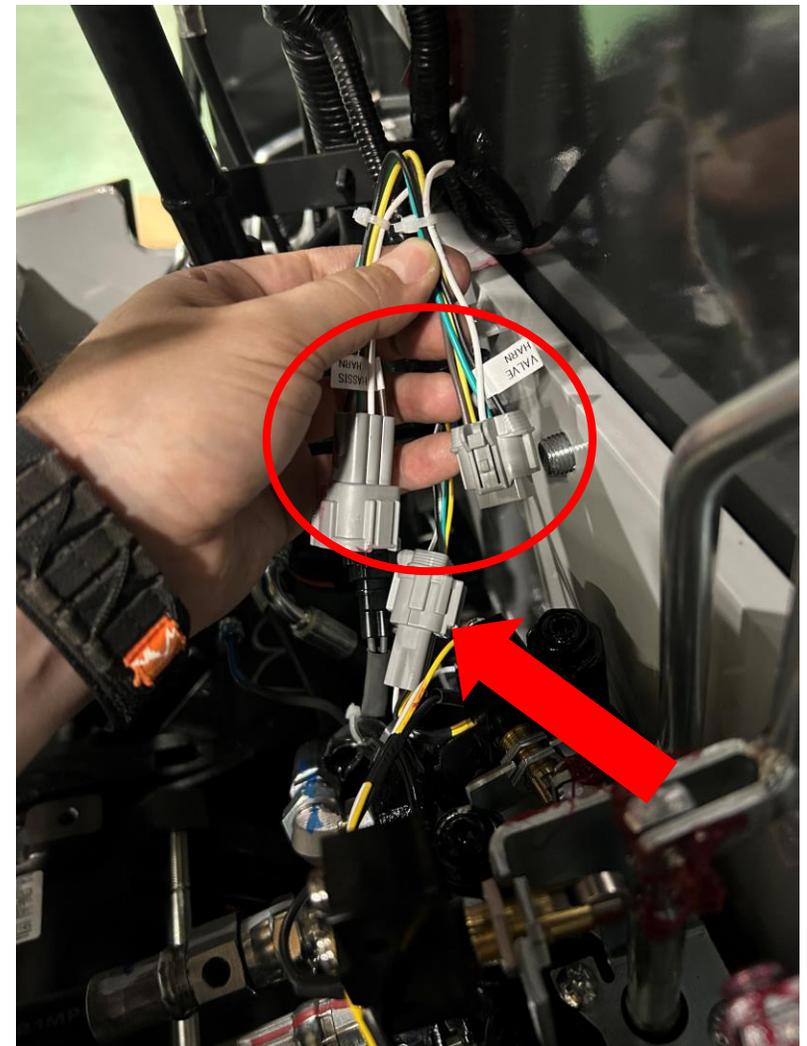
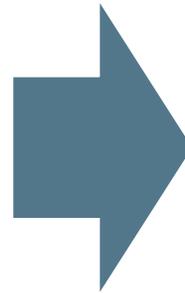
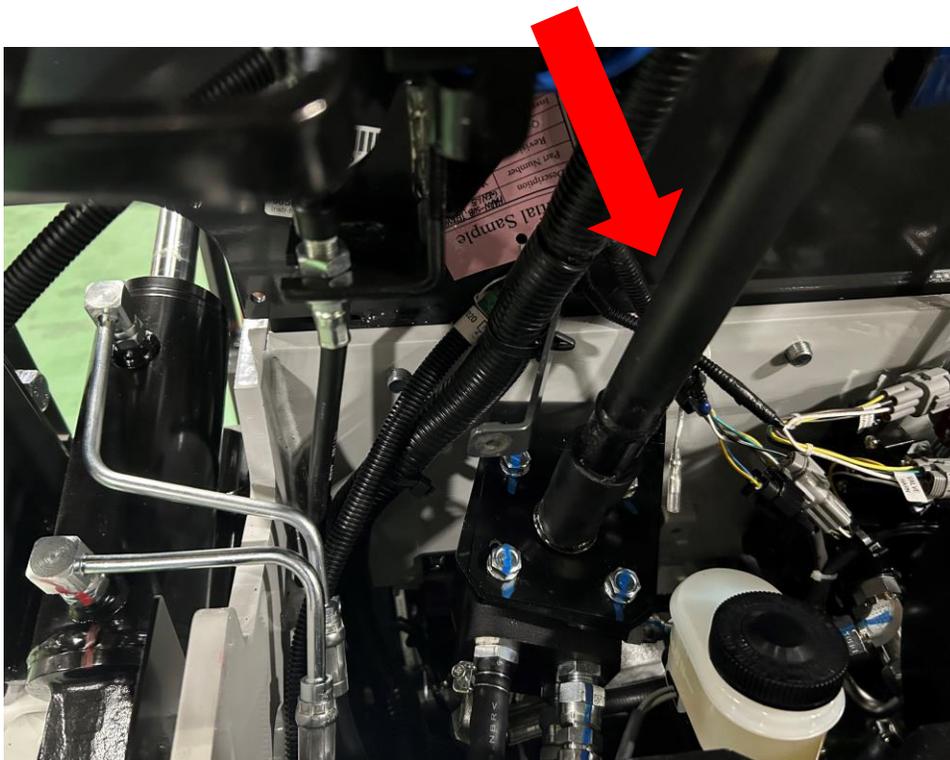
Step 10: Route the telematics harness encoder connectors down with the truck harness (securing with zip ties), then connect in-line to the traction motor encoder connector.



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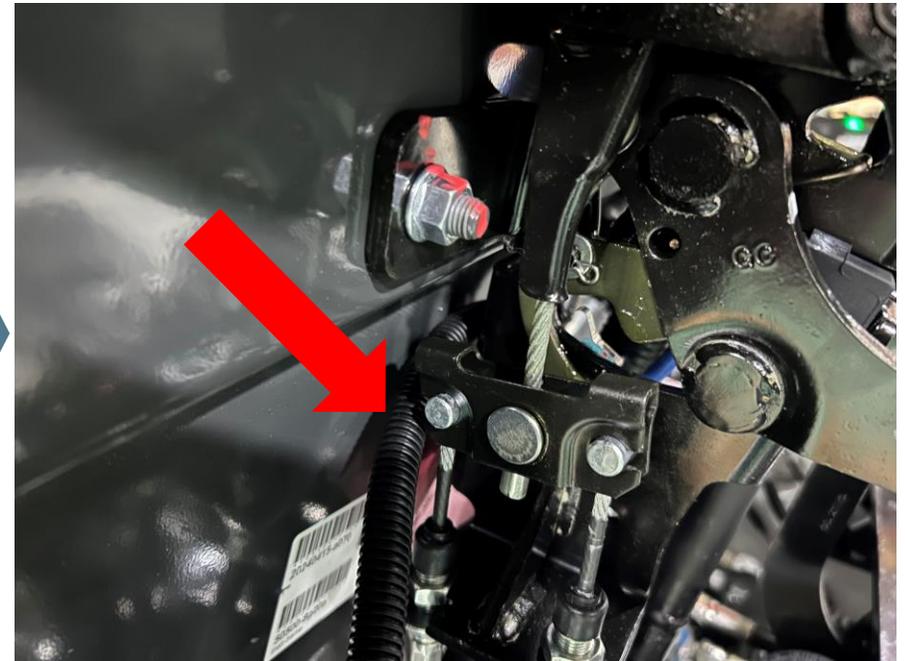
Step 11: Route the telematics harness valve harness connectors along with the truck harness (securing with zip ties) and connect in-line to the valve harness connector.



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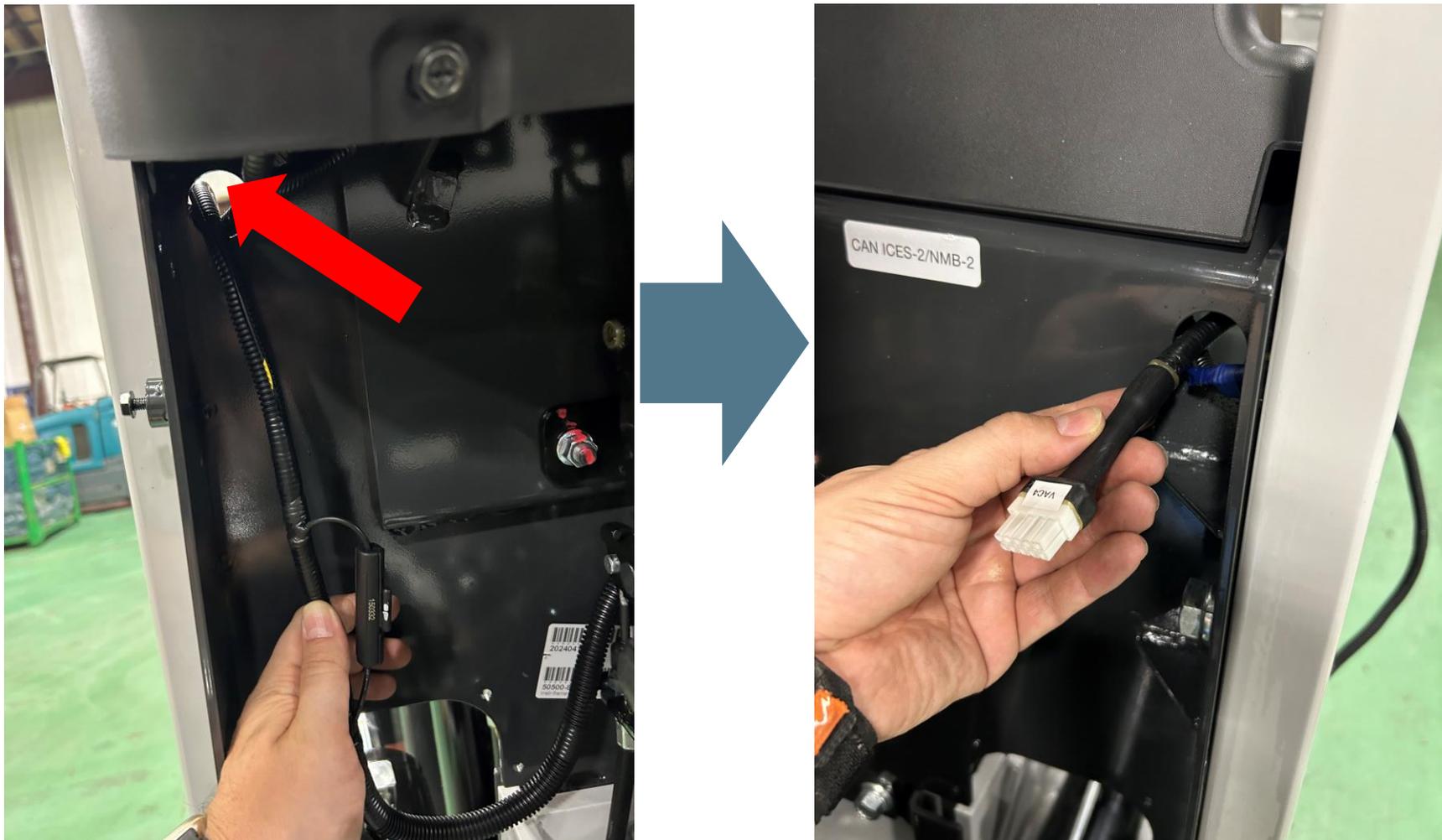
Step 12: Route the telematics harness section with the 10-pin VAC4 connector behind the steering shaft and parking brake assembly, making sure to avoid any pinch points.



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Step 13: Route the VAC4 connector through the hole in the front of the frame.

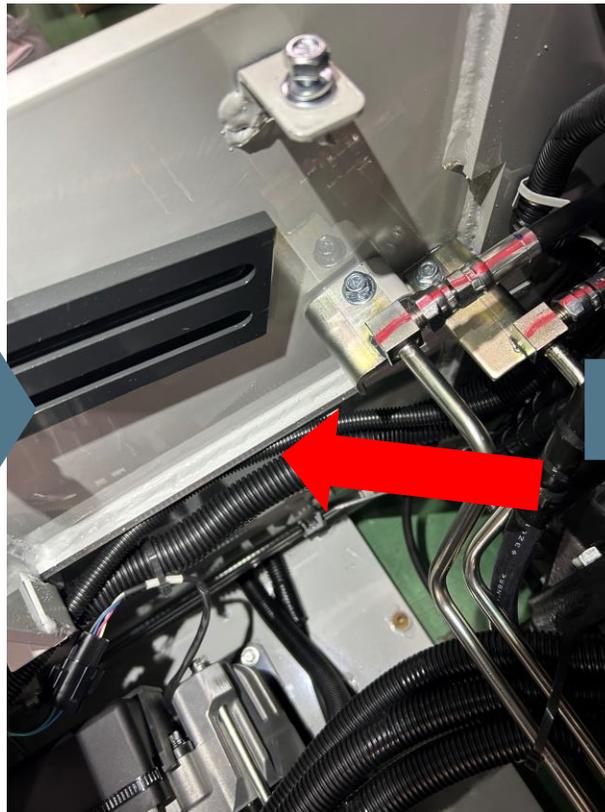
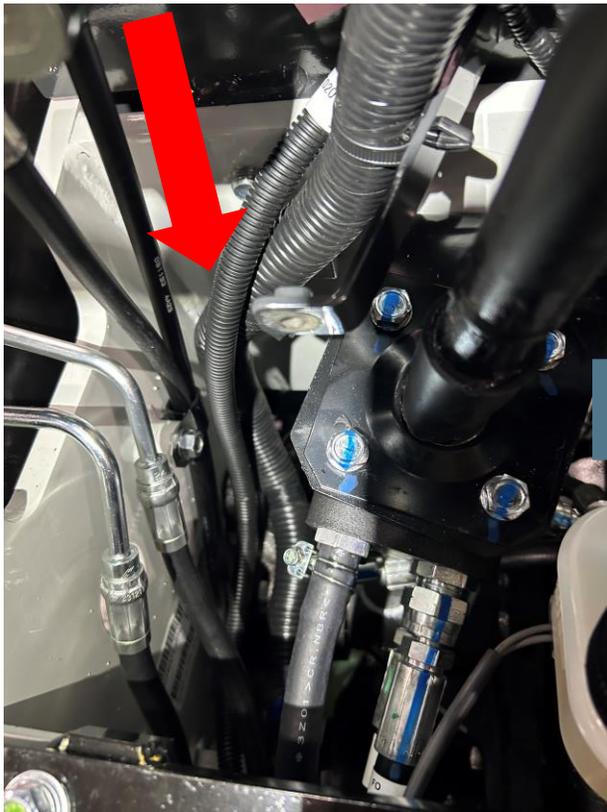
Cables going through holes/bulkheads with sharp edges should be protected with something like wire loom. The photos shown are for routing illustration purposes only.



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Step 14: Route the remainder of the telematics harness down along the main harness and into the battery compartment, securing with zip ties along the way.



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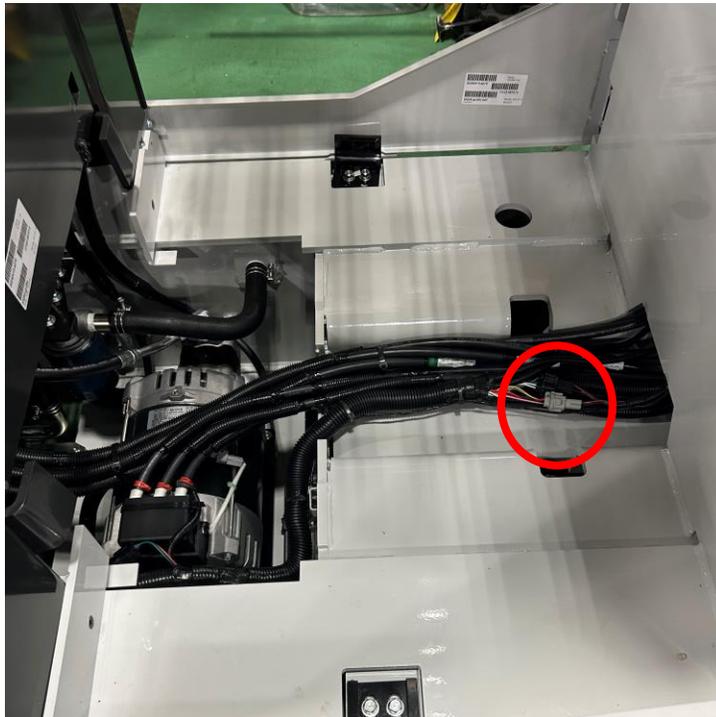
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Step 15: The connector labeled “sensor hub” isn’t used for basic telematics, so this can be secured back to the harness.



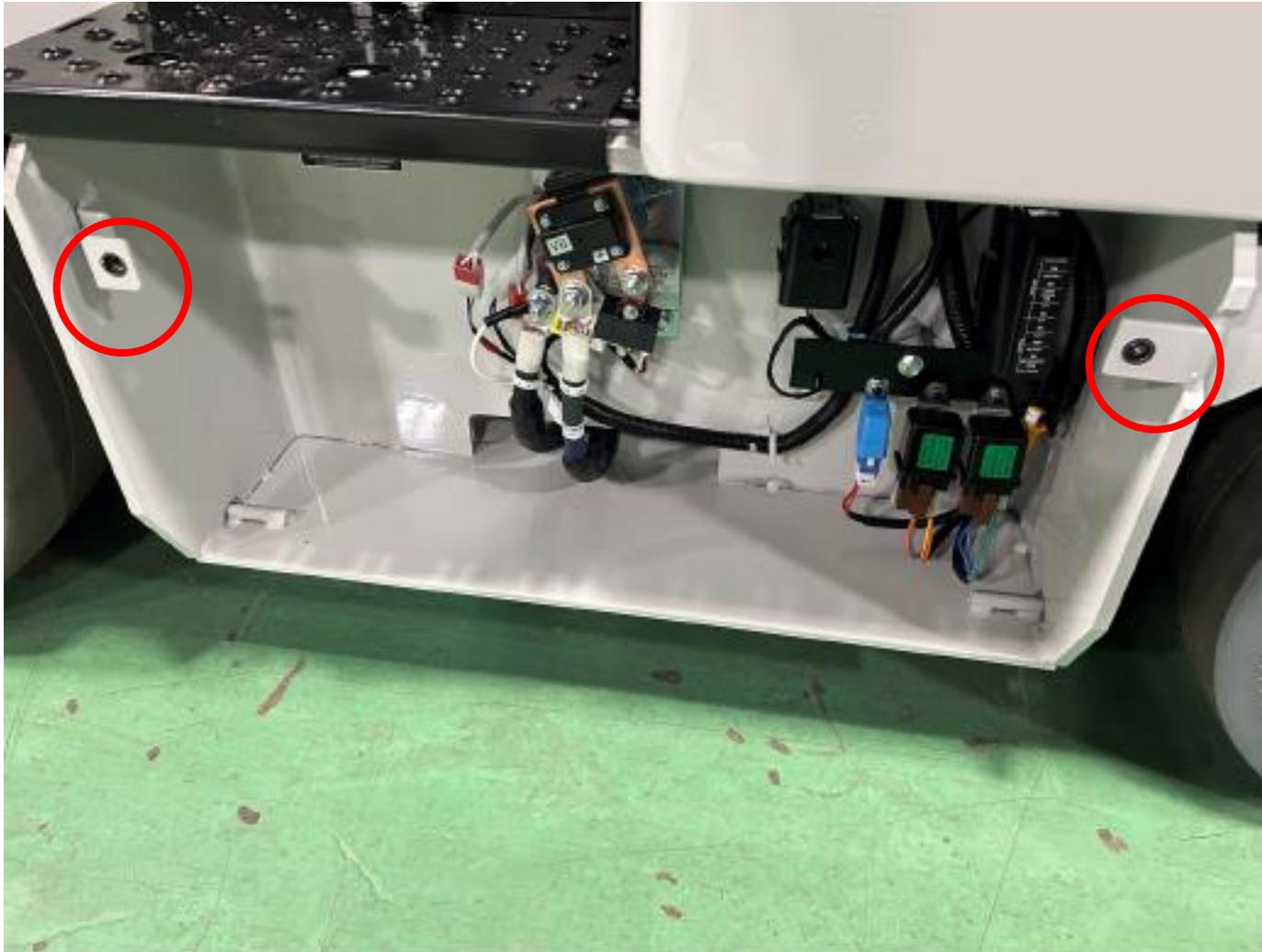
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Step 16: Connect the chassis harness/tail harness connectors in-line between the chassis harness and tail harness located towards the back of the battery compartment.



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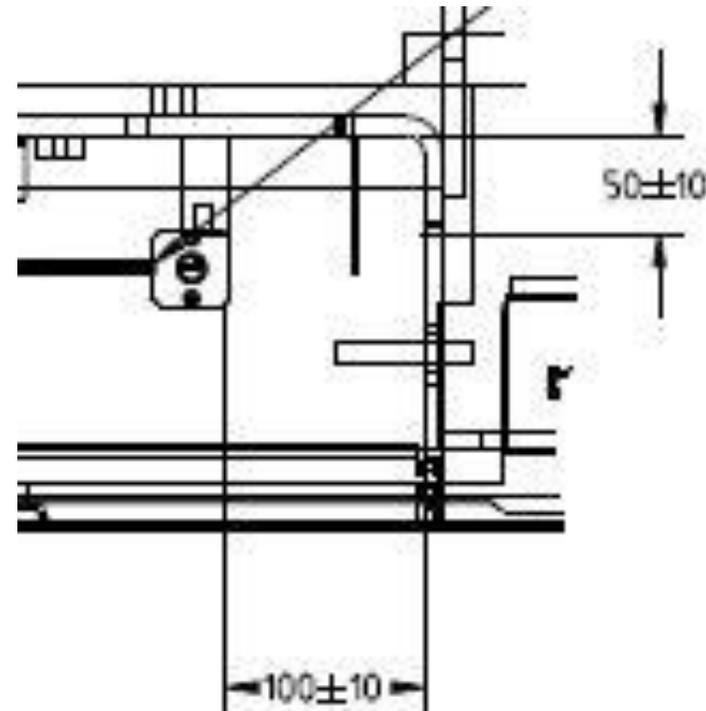
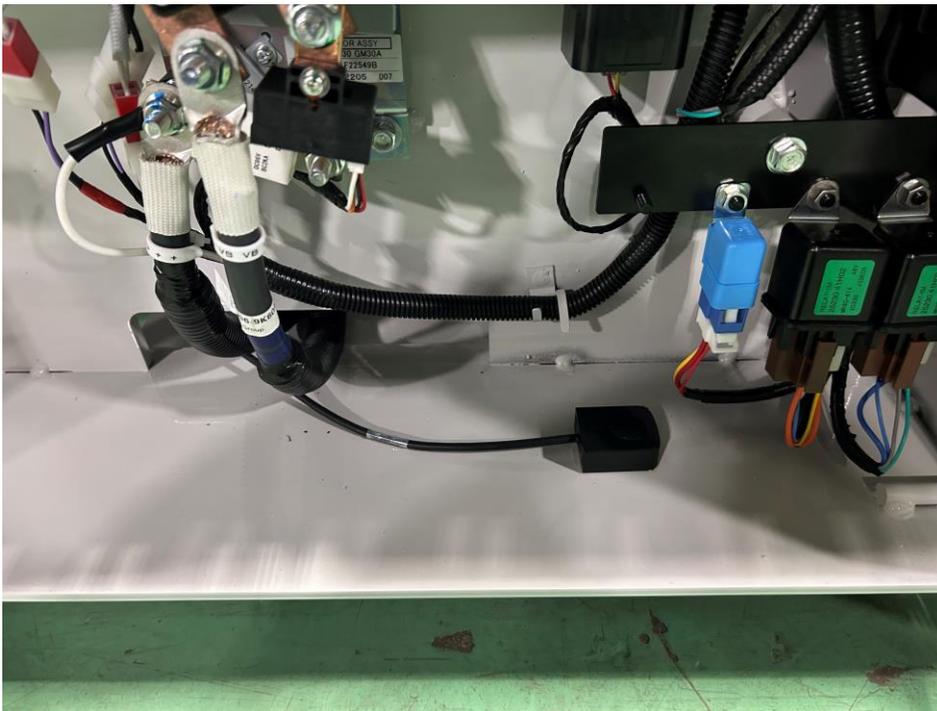
Step 17: Remove the 2 bolts holding on the left side panel and remove the panel.



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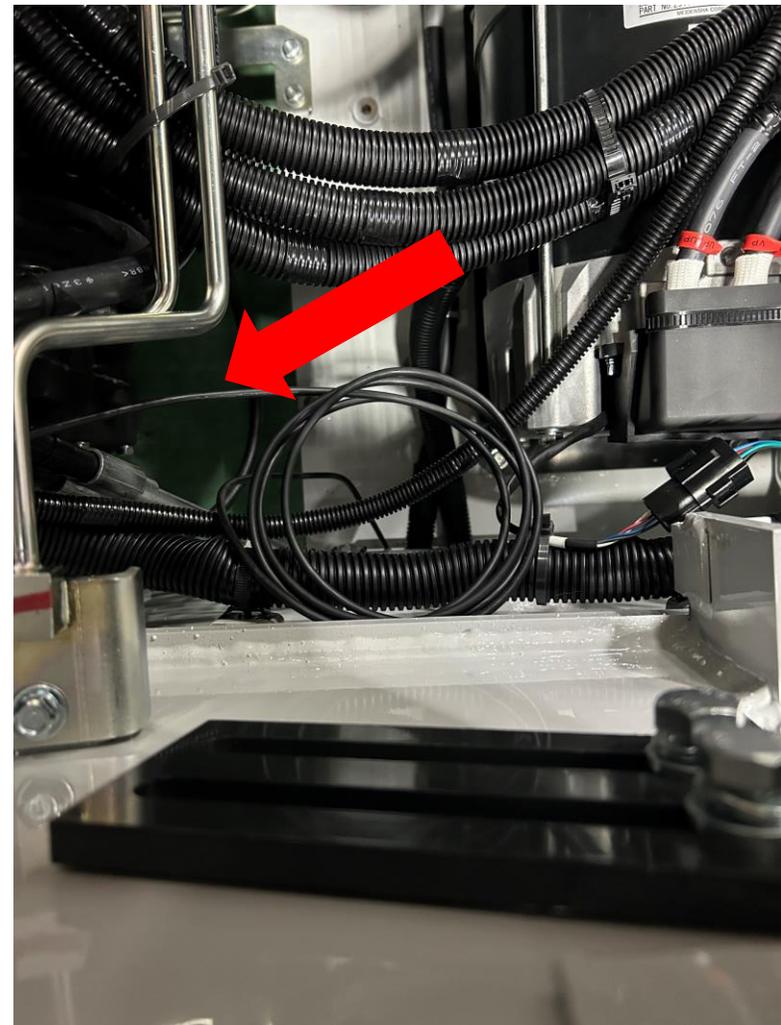
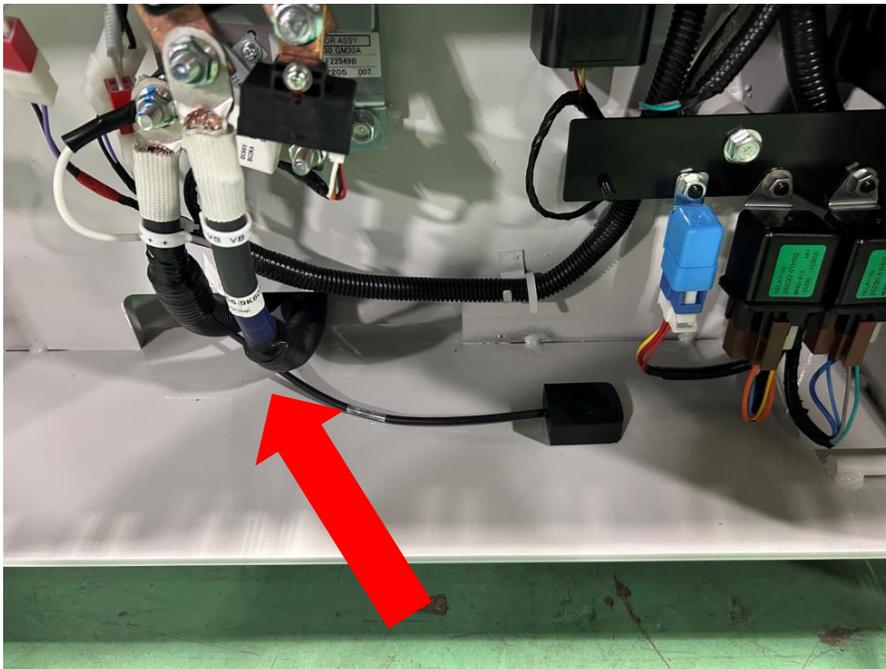
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Step 18: Mount the impact sensor to the bottom of the frame as shown.



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Step 19: Route the impact sensor harness up along the main harness (securing with zip ties) and out the same location as the VAC4 connector. Any excess should be secured somewhere out of the way.



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Step 20: Mount the ram mount to the front left OHG leg.



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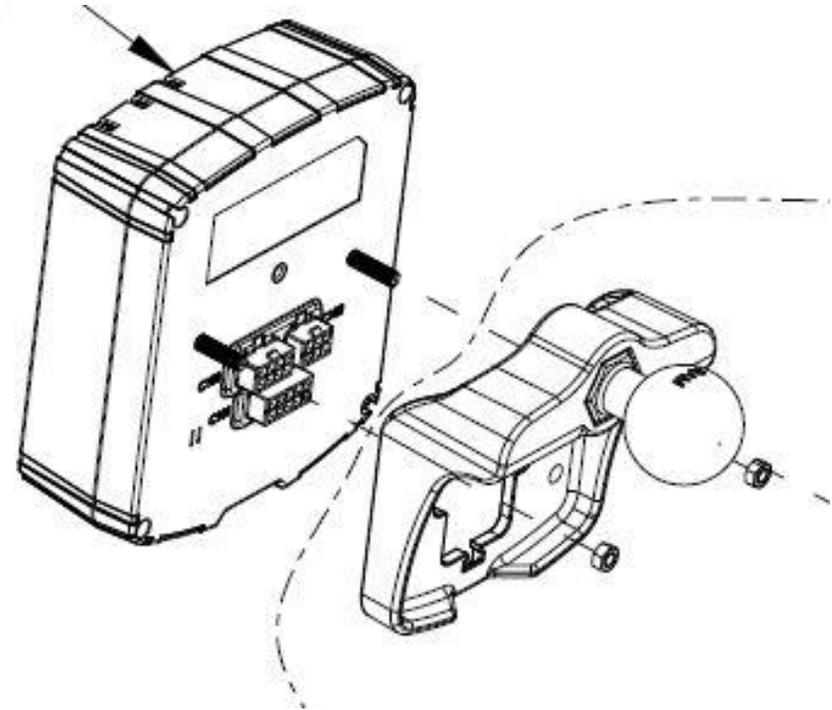
Step 21: Adjust the display to mount just above the truck meter panel.



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Step 22: Route the impact sensor and VAC4 connector through the hole in the mount, connect to the VAC4 display unit, then mount the VAC4 display using the 2 nuts on the back.



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Step 23: Connect the battery and power on the truck to verify the VAC unit is powered.

Don't worry about any errors that come up, as the setup hasn't been done yet.



Step 24: Replace all the panels on the truck and perform the validation in the following slides.



1. Press 2 on the keypad to select "Config" and then press the green ENTER button.

It is recommended to have the vehicle's drive wheel(s) elevated prior to starting verification unless there is sufficient space to drive *slowly* in forward and reverse for up to 15 seconds at a time.



2. Use the keypad to enter **7262468** and then press the green ENTER button.



3. Use the keypad to enter **2378** and then press the green ENTER button. (Note: truck able to run once this step is complete).

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4. Press 6 on the keypad to select "**Hardware**" and then press the green ENTER button.



5. Press 1 on the keypad to select "**States**" and then press the green ENTER button.



6. Press 2 on the key pad and select "**Vims**" & then press the green ENTER button.



7. Repeat step 6



Steps 8 – 13 the R & AV numerical numbers must change when the desired function is activated.

8. Select "**Motion**" then press the Green enter button.

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9. Press the throttle in the fwd or rev travel direction. Verify that the **R & AV** numerical values change. Perform this step for both fwd & rev throttle. Confirm **R & AV** values change press Red ESC button.



10. Toggle down to "LIFT" and press the GREEN enter button.



11. Press the up button and verify that the **R & AV** numerical numbers change. Confirm the R & AV numbers change & then press the Red ESC button.



12. Toggle down to "SEAT" and press the GREEN enter button.



13. Depress the seat or step on the operator presence switch & verify the **R & AV** numerical numbers change. Confirm the **R&AV** number change & press the Red ESC button several times to return to the main start screen. You should see a key or wrench symbol.

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14. Press the button with a key icon just below the green LED to log off.

Questions?

If you have any questions regarding this HPK, contact your Service Manager or Technical Communicator prior to submitting a CRM Ticket to Lift Central[®].

[Open a CRM ticket](#)

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