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Model And Serial Number(s):

ETG 214-318

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.

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.

Lift Link Telematics Installation

Step 1: Make sure you have all the required components (included in kit part number **W0001-RK085**).

Harness ID System
51755972

Telematics Harness
W0001-RK006

Socket Bolt x4
F121005020

Step 1 cont:

VAC4 Ram Mount Kit
69973-KT005

OHG Option Plate
51559669

Ram Ball Mount
51385943

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Step 1 cont:

Telematics Display
24058-KT010

Impact Sensor
26820-KT010

Band Clip x6
0531800110

Step 1 cont: If the truck doesn't have an OHG option bracket, it will need one of those as well. **NOTE: The data tags will also need to be moved.**
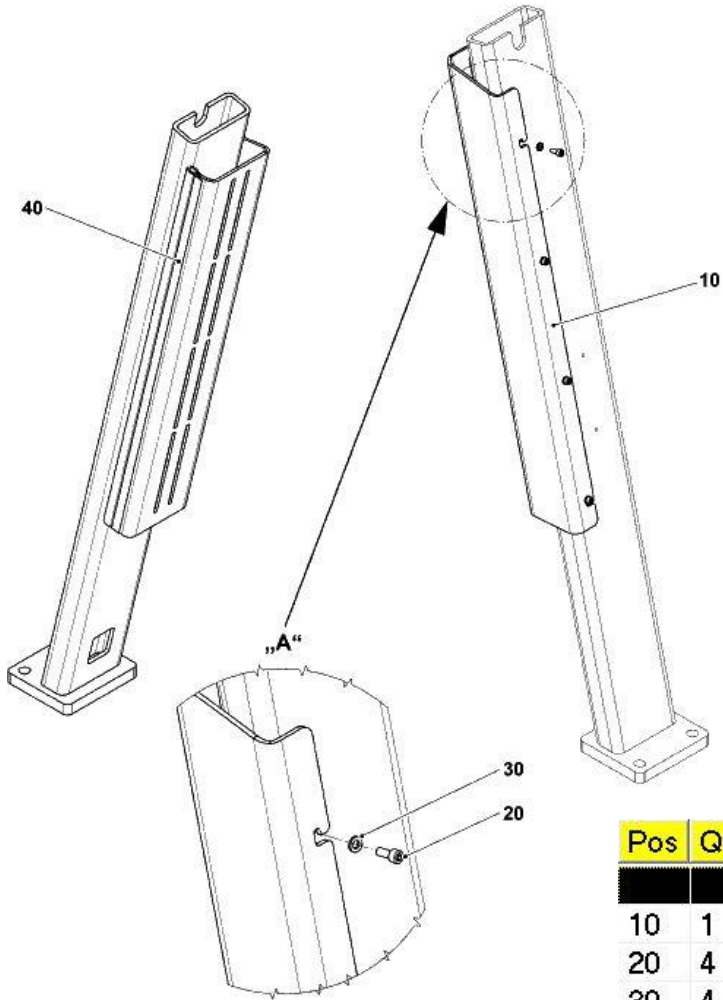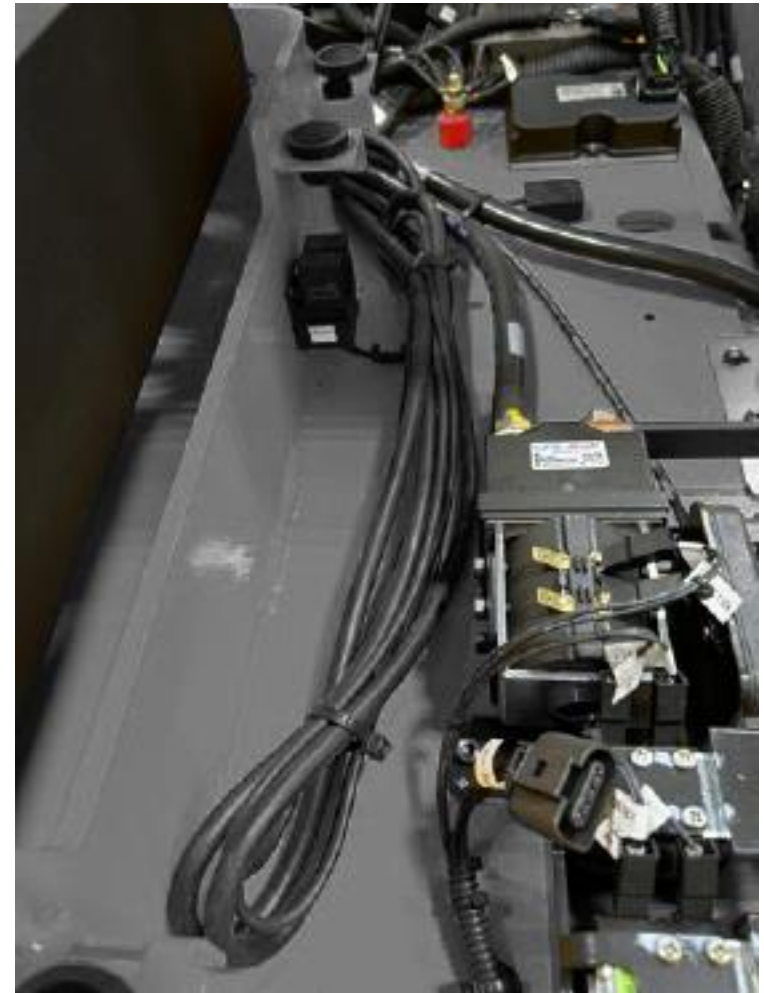

Pos	Qty		Part No.				Name	
			Order in single parts				Mounting parts / OHG OPTION BRACKET	
10	1		51559651				Bracket / OVERHEAD GUARD JH-GR	
20	4	(20)	24202420			⊙	Screw / M6X16	
30	4		51059067			⊙	Washer	
40	1		51683047				Profile-Rubber	

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Step 2: Remove the front dash cover from the truck by pulling up from the handles.

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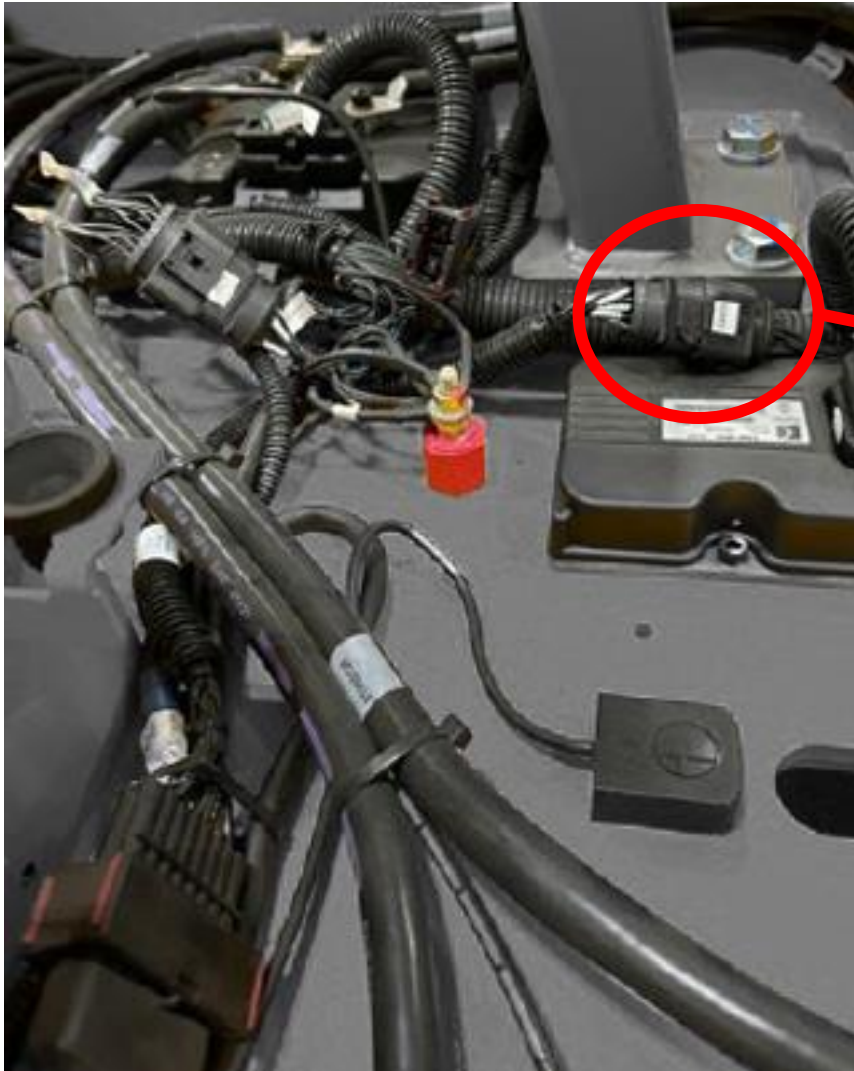**Step 3:** Pop the plastic insert out of the steering tiller using a small screwdriver.

Step 4: Remove the snap ring and cap screw, remove the tiller, then remove the upper dash cover.

Step 5: Locate the XB905 connector on the truck and connect the 51755972 adapter harness.
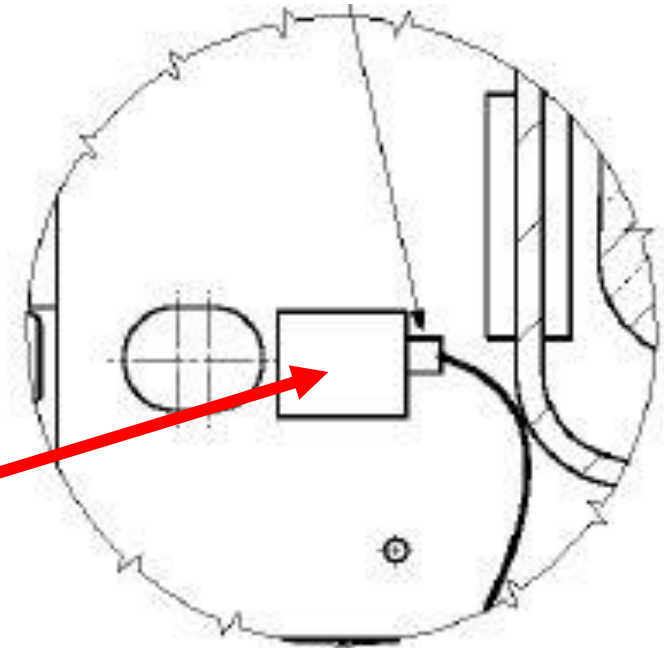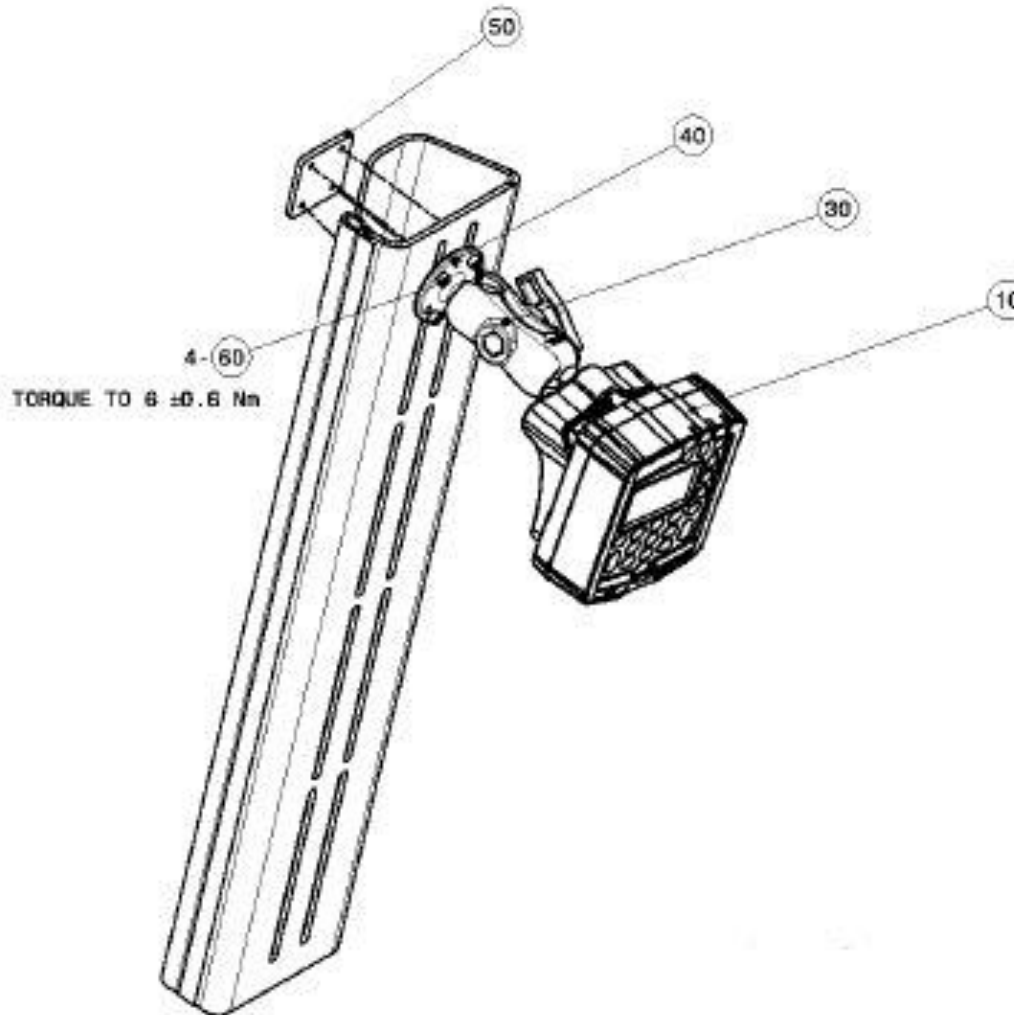
Step 6: Install the impact sensor to the frame as in the indicated picture/drawing.

Step 7: Remove the OHG option bracket by removing the screws on the back.

**Step 8:** Install the RAM mount to the OHG option bracket, then re-install the OHG option bracket.
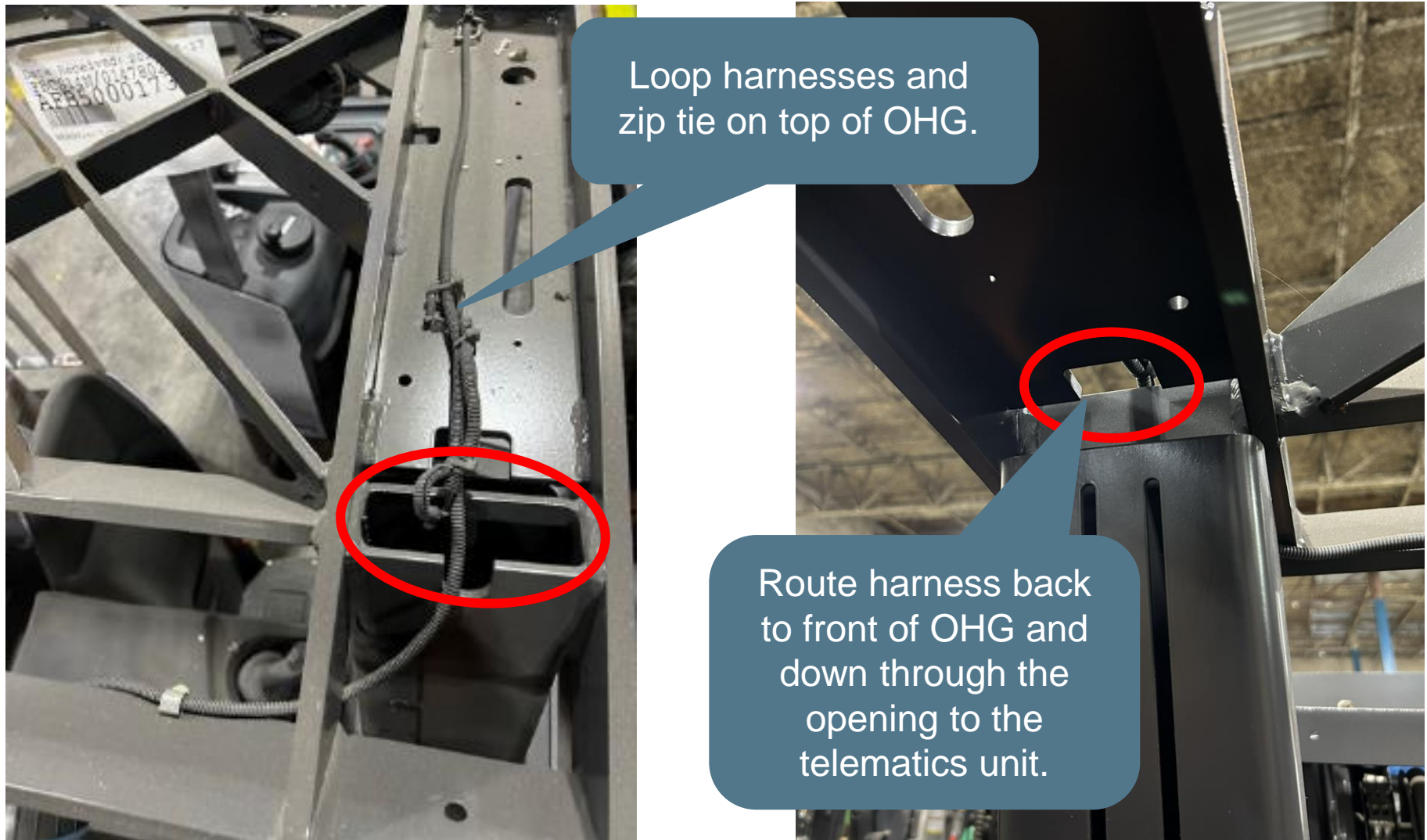
Step 9: Connect the telematics harness to the adapter harness, then route through the OHG along with the harness for the impact sensor, securing with zip ties.

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.
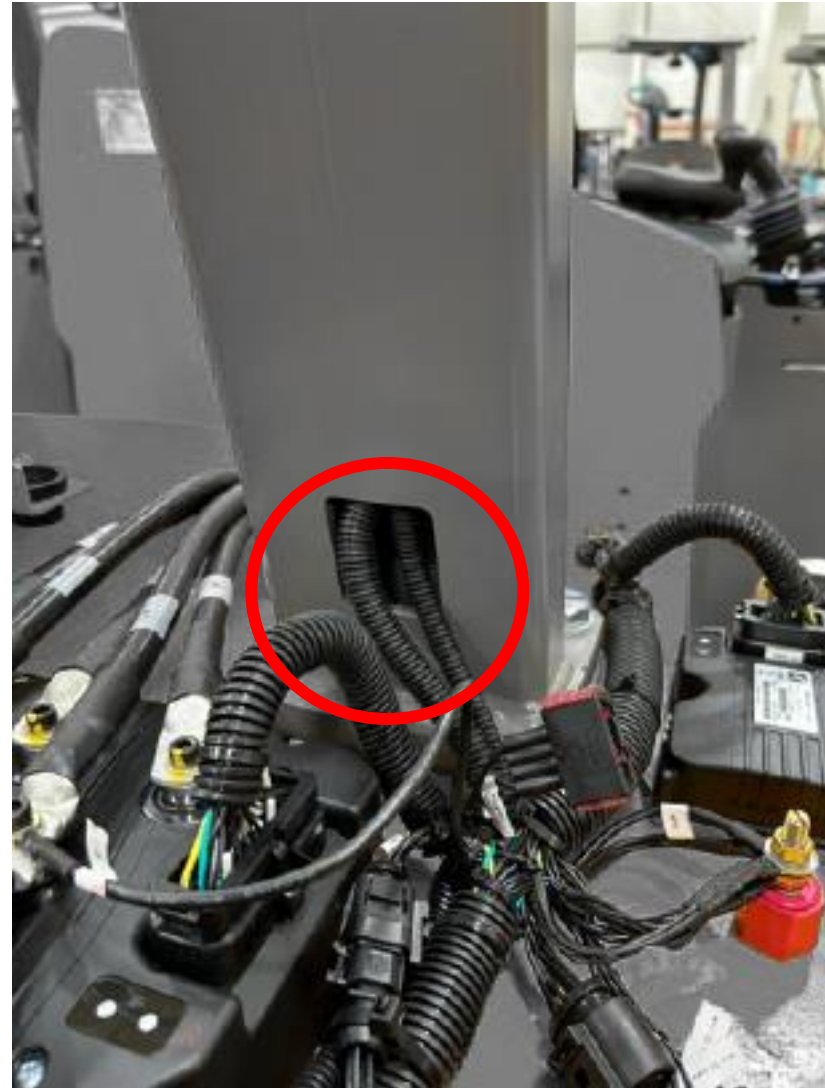
Step 10: Pull harnesses up through top of OHG leg and make a loop on top of OHG, then back down through the hole in the OHG to prevent having too much of a bend of the harnesses.

Loop harnesses and zip tie on top of OHG.

Route harness back to front of OHG and down through the opening to the telematics unit.

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Step 11: Mount the telematics unit to the previously installed RAM mount.

Step 12: Connect both harnesses into back of the telematics unit.
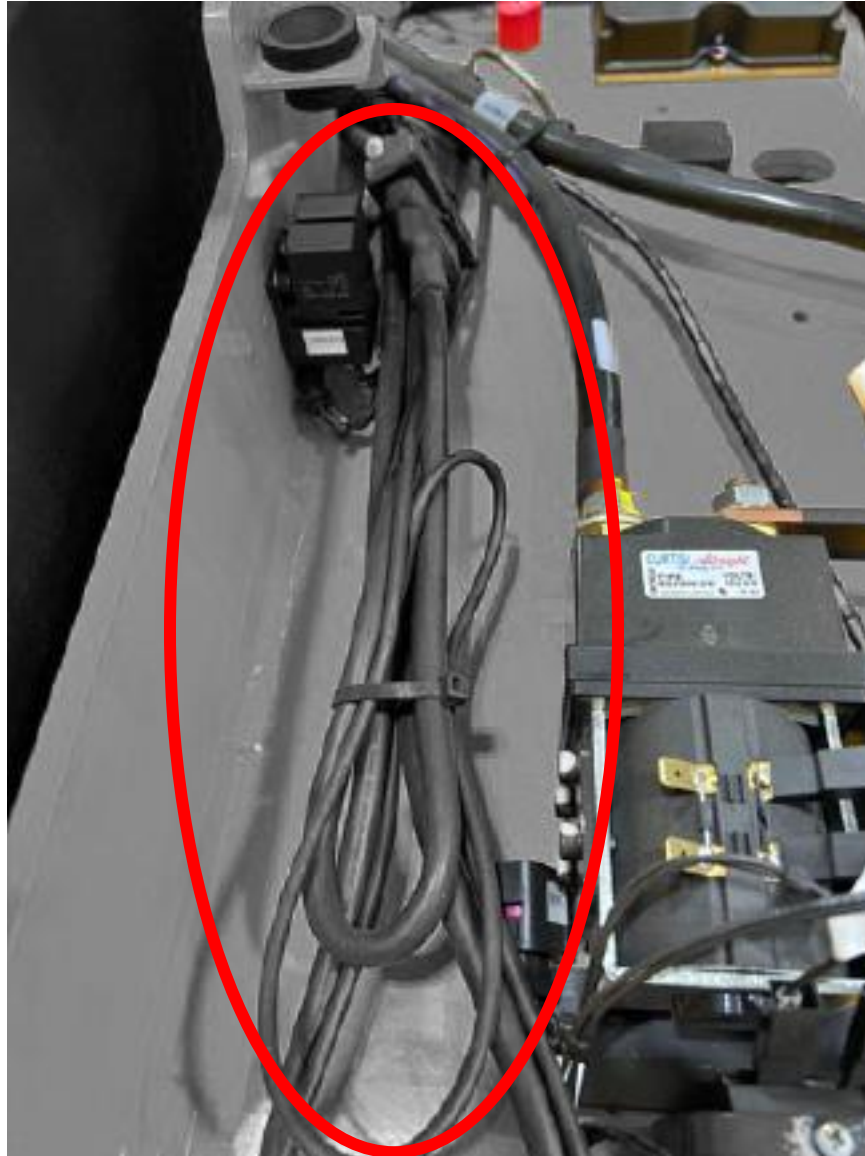
Step 13: Connect the battery and power on the truck to verify the VAC unit is powered.

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

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Step 14: Tie up any excess harness under the front cover as shown and secure with zip ties.

Step 15: Replace all panels on truck, including steering tiller and plastic insert.

Step 16: Perform the validation steps as shown in the following slides.

Begin by unplugging the access control plug on the harness. The truck should now NOT travel until logged in.

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

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.

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.

15. Plug the access control plug back together and verify the truck now has travel.

Plug must be plugged back in when verification is complete.

16. Verify work is complete and accurate.

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