

VAC4

VDI Plug Method Installation Guide



Proprietary and Confidential
Version 085-00000983 rev B
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This device complies with Part 15 of the FCC Rules and Industry Canada License-Exempt RSS Standard(s).

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interface, and
- (2) This device must accept any interferences received, including interference that may cause undesired operation.

L 'utilisation de ce dispositif est autorisée seulement aux conditions suivantes:

- (1) il ne doit pas produire de brouillage et
- (2) l' utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

The transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. This equipment complies with the FCC RF/IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and any part of your body.

Note: This equipment has been tested and found to comply with the limits for digital devices, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with FCC instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correcting the interference by one or more of the following measures:

- 1.1. Reorient or relocate the receiving antenna,
- 1.2. Increase the separation between the equipment and receiver.
- 1.3. Connect the equipment into an outlet on a circuit different from that to which receiver is connected.
- 1.4. Consult the dealer or experienced radio/TV technician for help.

WARNING

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Note: This publication is intended to provide the general knowledge needed to install the Vehicle Asset Communicator (VAC). Since vehicle designs vary widely throughout the industry, this guide focuses on providing comprehensive instruction for a "typical" installation method instead of tailored instructions by vehicle model.

By following these installation guidelines, the aftermarket installation of the Powerfleet hardware does not void the vehicle manufacturer's warranty.



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1. Powerfleet VAC4 Getting Started Guide

System coordinator and installers should first refer to the Powerfleet VAC4 Getting Started Guide for complete product overview.

2. Select a location.

Select an appropriate location to perform the vehicle installation. Ideally, a well-lit, open area where the vehicle can be test driven for about 5 seconds forward and then 5 seconds in reverse once the installation is complete.

3. Confirm that the vehicle kit is complete.*

| Component | Description | Qty |
|-----------------------------|--|-----|
| Forklift Gateway (VAC) | Black box with LCD screen and keypad | 1 |
| VAC mounting bracket | VAC Bracket | 1 |
| Vehicle hardware kit | VAC Bracket rear mounting plate, grommet, screws, and nuts | 1 |
| VAC cable | 6' to 18' fused cable (wired or OEM harness) | 1 |
| Impact sensor | Square plastic device with integrated 12' cable | 1 |
| Electrical installation kit | Cable ties, ring terminals, etc. | 1 |

*Optional sensors and sensors supporting materials (e.g., cables) are provided separately, not part of the vehicle kit.

4. Gather recommended installation tools.

| | |
|--|--------------------------|
| Vehicle electrical diagram | 17/64" (7 mm) drill bit |
| Multimeter and clip leads | 1 1/32" (9 mm) drill bit |
| Allen wrench set | 1-1/4" (32 mm) Hole saw |
| Metric socket set | Wire stripper/cutter |
| Metric combination wrench set | Utility knife |
| Phillips and flathead screwdriver set | Pliers |
| 18 AWG wire | Electrical tape |
| Butt splices | Flashlight |
| Spare fuses (supplied in the <i>Open Me First</i> box) | |

NOTE: In addition to the recommended installation tools listed above, tools to be used for dismantling the vehicle body and potentially removing the vehicle battery will be needed.



5. Choose the VAC mounting location.

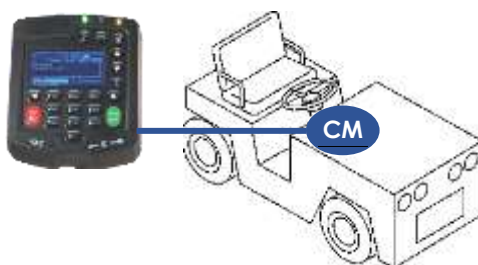
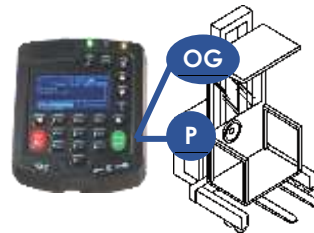
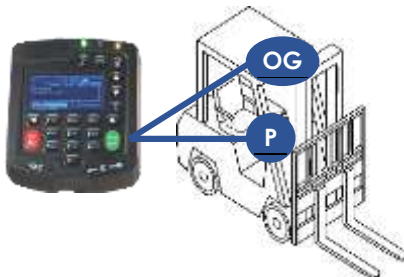
VAC Mounting Location Considerations

- Whenever possible, mount the VAC bracket to an available beam, pillar, overhead guard, or crossmember using the "Clamp Mount" method.
- Vehicle operator must be able to view the VAC display and access the keypad while positioned for normal vehicle operation.
- Do not obscure the operator's line of sight or prohibit accessibility to the vehicle controls.
- Mount the VAC within physical range of vehicle connections and within 12 feet of the impact sensor.
- Limit the risk of cable damage by routing cables through the vehicle body. Whenever possible, use existing cable paths.
- Keep the VAC and VAC bracket inside the overall dimensions of the vehicle to avoid damage.
- Install the VAC and cable in a manner that will not interfere with routine vehicle operation.

VAC Mounting Locations

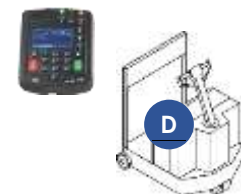
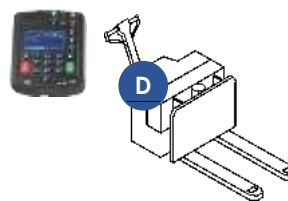
Clamp Mount (Preferred Method)

D Dashboard **OG** Overhead Guard **P** Pillar **CM** Crossmember



Dash Mount (Alternate Method)

D Dashboard





6. Loosen the bracket arm bolt so that the VAC adapter plate and bracket base plate can be adjusted.



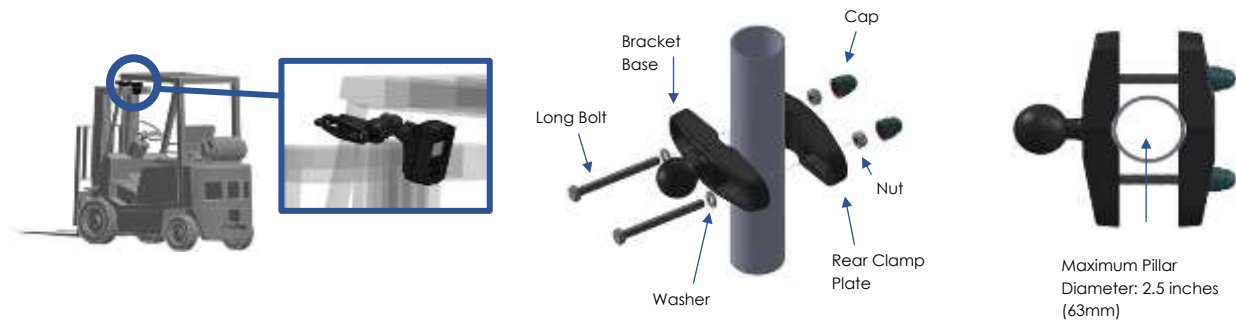
7. Mount the VAC bracket based on the VAC mounting location determined in Step 5.

Clamp Mount (Preferred Method)

Note: Clamp mount bolts must not protrude more than 1" beyond the nut. Bolts that extend beyond 1" should be trimmed down (no shorter than 1/2", no longer than 3/4") and capped.



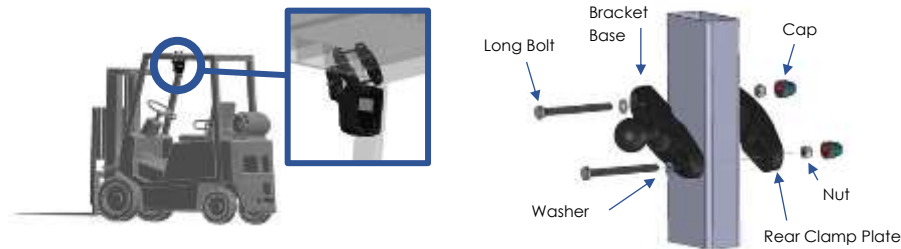
7a. Round Pillar





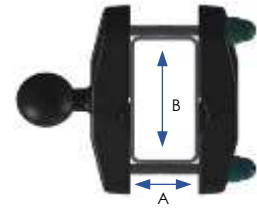
7b. Rectangular Pillar/Overhead Guard Plate

The rear clamp's recessed pockets hold nuts in place while screws are installed.

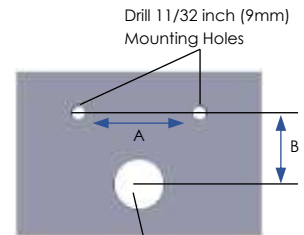


Note: Mounting on a rectangular pillar at an angle (as shown) will minimize risk of external protrusion.

Pillar Dimensions (With Provided Hardware)
A: 3/16 inches (5 1/2 mm) to 2-3/8 inches (60mm)
B: 4 inches (102mm) MAXIMUM



7c. Dash Mount (Alternate Method)



Drill Spacing
A (Mounting Holes): 2-1/4 ~ 4-3/8 inches (57-111mm)
B (Grommet Holes): 1-3/4 inches (45mm) MINIMUM

VAC Bracket Parts and Mounting Hardware

VAC Bracket Base



M8 – 1.25 x 90mm HEX Head Screw



M8 Rubber Bolt Cap



M8 – 1.25 x 25mm HEX Head Screw



VAC Bracket Rear Clamp Plate



M8 Flat Washer



Grommet



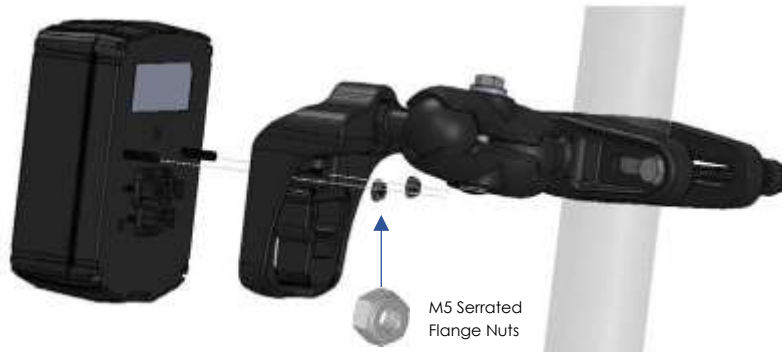
M8 – 1.25 Nylon Lock Nut





8. Mount the VAC to the VAC bracket.

8a. Slide the VAC onto the bracket and secure using the M5 nuts supplied with the VAC.



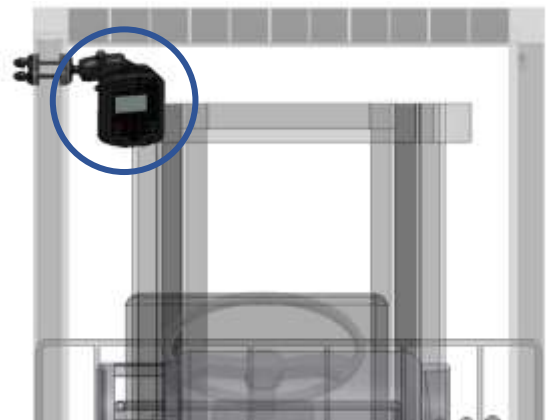
8b. If needed, adjust the orientation of the bracket.

The vehicle operator should be able to easily access the VAC.

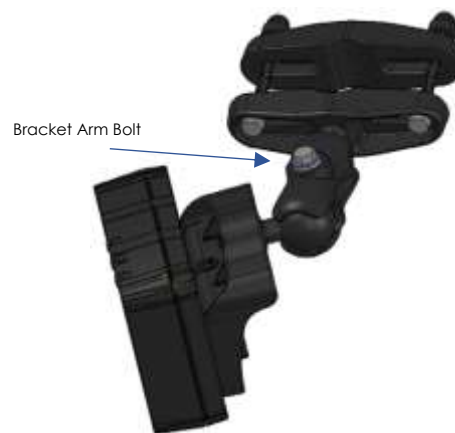
The position of the VAC and bracket must not obscure the operator's line of sight.

The VAC and bracket must remain within the overall dimensions of the vehicle.

Install the VAC and cable in a manner that will not interfere with routine vehicle operation.



8c. Tighten the bracket arm bolt.

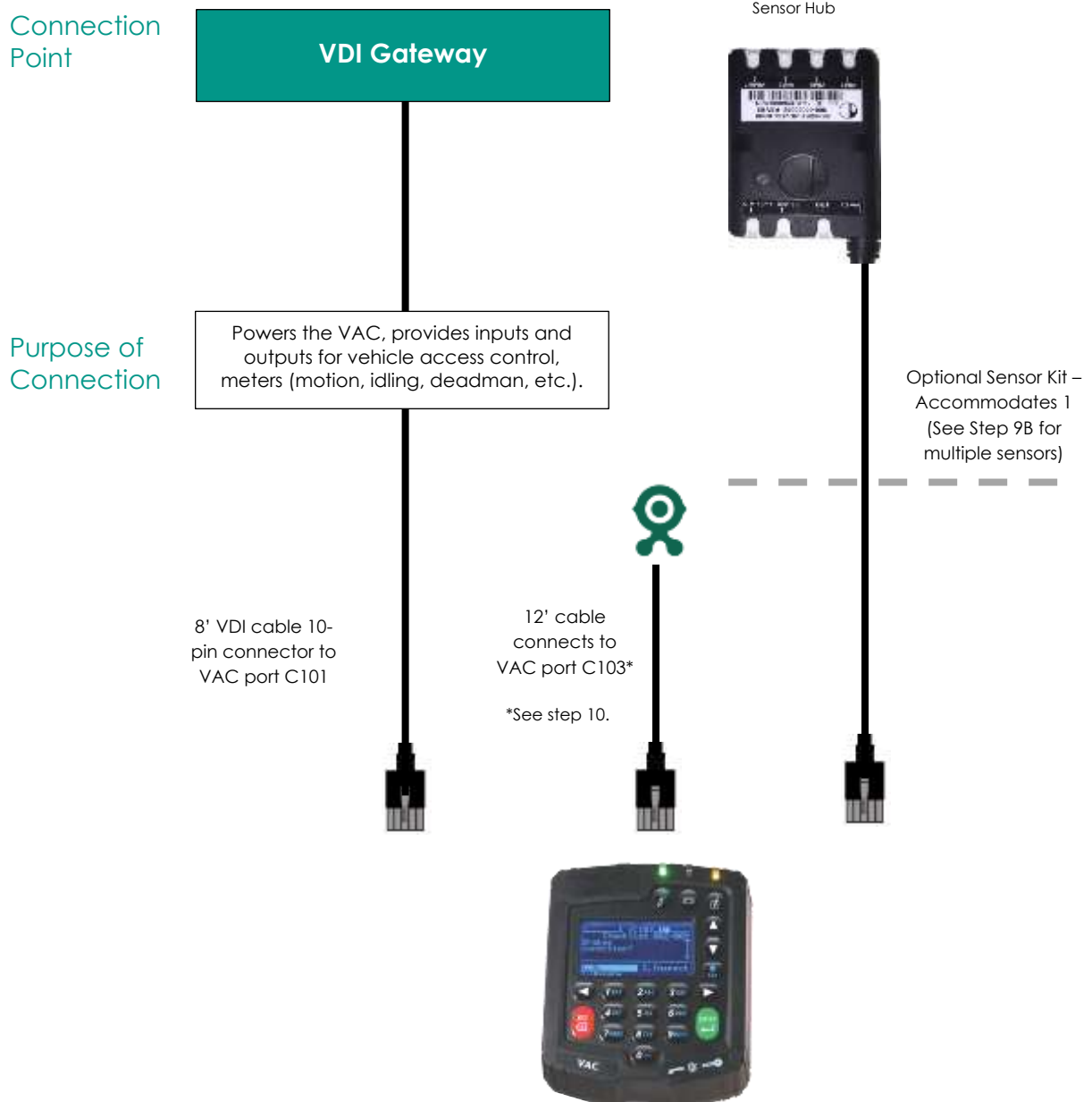




9. Wiring Vehicles with VDI Gateway

9a. Use the chart below to connect vehicles with VDI Gateway only.

Verify the VAC cable will reach the connection points based on the mounted VAC location.

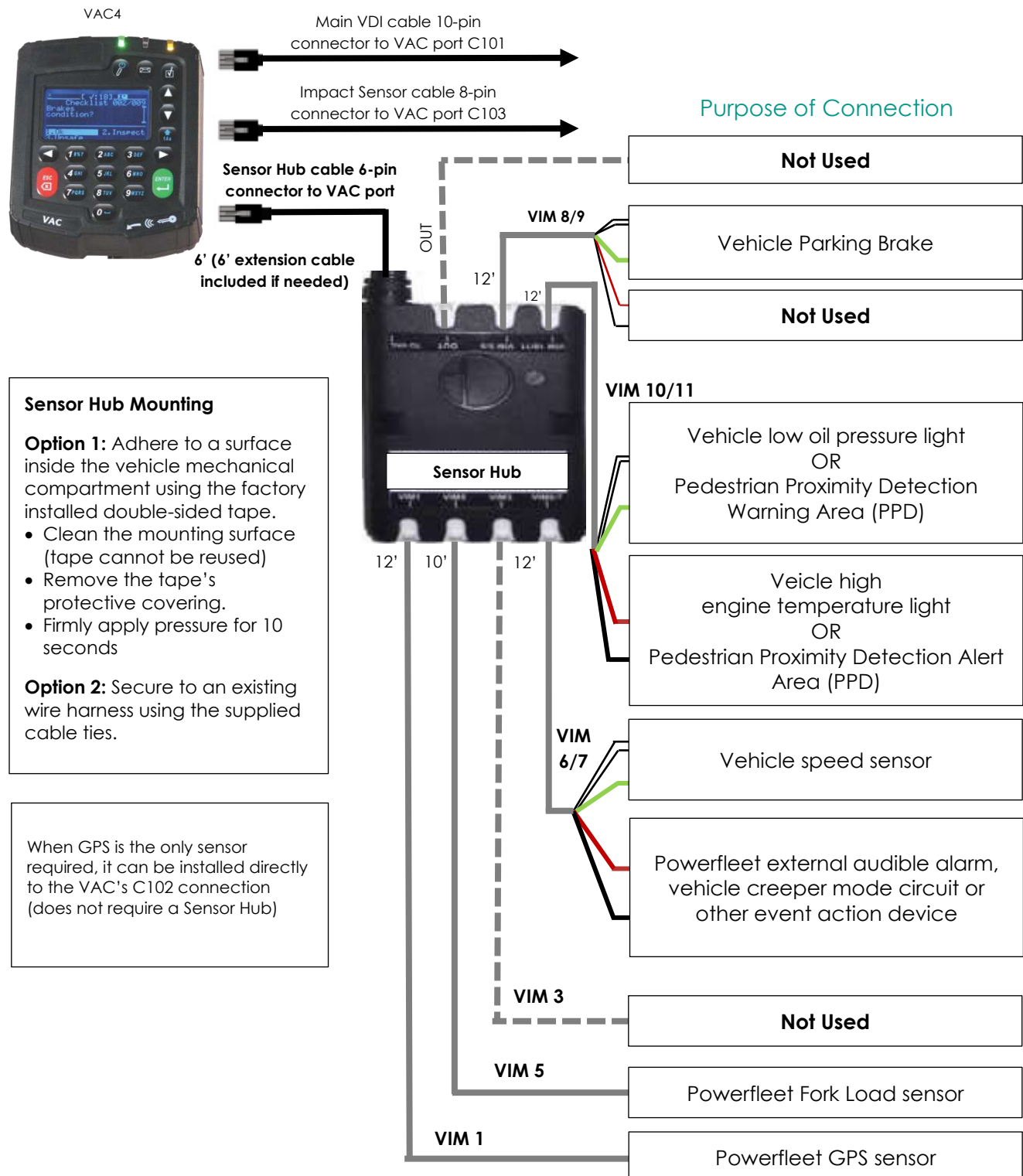




9b.

Optional Sensors and Sensor Hub Connections

If needed, make connections to the Sensor Hub port(s) and their corresponding sensor(s), as shown below. **See next page for connection recommendations!**

**Sensor Hub Mounting**

Option 1: Adhere to a surface inside the vehicle mechanical compartment using the factory installed double-sided tape.

- Clean the mounting surface (tape cannot be reused)
- Remove the tape's protective covering.
- Firmly apply pressure for 10 seconds

Option 2: Secure to an existing wire harness using the supplied cable ties.

When GPS is the only sensor required, it can be installed directly to the VAC's C102 connection (does not require a Sensor Hub)



Wiring Requirements

| VIM | Purpose of Connection | Connection Criteria | Wires | Recommended Connection Point |
|---------|---|---|-------|--|
| VIM 1 | Vehicle location and speed data | Refer to sensor kit installation instructions | N/A | Powerfleet GPS sensor |
| VIM 5 | Vehicle load status (loaded vs. empty) | 5000 PSI maximum hydraulic line for 'lift' operation (not side-to-side or in-out); refer to sensor kit | N/A | Powerfleet Fork Load sensor |
| VIM 6/7 | Monitors vehicle speed | AC (sinusoidal) or Digital (Pulses); Maximum voltage differential 5.0V. Zero pulses at no speed, linear pulse increases with speed | White | Positive (+) side of vehicle speed sensor |
| | | | Green | Negative (-) side of vehicle speed sensor |
| | Activates vehicle action when configured events occur | 12 VDC control device (e.g., supplied relay, sounder); 12 VDC always present, GND floats or is pulled to ground; refer to sensor kit installation instructions | Red | Red wire of Sounder OR Coil side ("1") of control relay OR Positive (+) side of Creeper connection |
| | | | Black | Black wire of Sounder OR Coil side ("0") of control relay OR Negative (-) side of Creeper connection |
| VIM 8/9 | Monitors when parking brake is applied and released | <ul style="list-style-type: none"> Differential voltage of >1.0 VDC between signal active (e.g., brake on) and key off Differential voltage of >1.0 VDC between signal active (e.g., brake active) and signal inactive (e.g., brake released) Maximum voltage input of 100 volts | White | Positive (+) side of parking brake switch |
| | | | Green | Negative (-) side of parking brake switch |
| | Not Used | | Red | N/A |
| | Not Used | | Black | N/A |



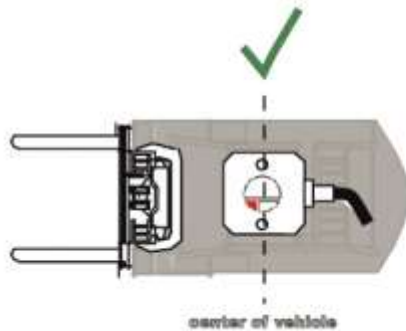
| VIM | Purpose of Connection | Connection Criteria | Wires | Recommended Connection Point |
|-----------|---|---|-------|---|
| VIM 10/11 | High engine temperature light OR Pedestrian Proximity Detection (PPD) Warning Area | <ul style="list-style-type: none"> Differential voltage of >1.0 VDC between signal active (e.g., brake on) and key off Differential voltage of >1.0 VDC between signal active (e.g., brake active) and signal inactive (e.g., brake released) Maximum voltage input of 100 volts | White | Positive (+) side of high engine temp light OR PPD Warn Area |
| | | | Green | Negative (-) side of high engine temp light OR PPD Warn Area |
| | Low oil pressure light OR Pedestrian Proximity Detection (PPD) Alert Area | <ul style="list-style-type: none"> Differential voltage of >1.0 VDC between signal active (e.g., brake on) and key off Differential voltage of >1.0 VDC between signal active (e.g., brake active) and signal inactive (e.g., brake released) Maximum voltage input of 100 volts | Red | Positive (+) side of low oil pressure light OR PPD Alert Area |
| | | | Black | Negative (-) side of low oil pressure light OR PPD Alert Area |



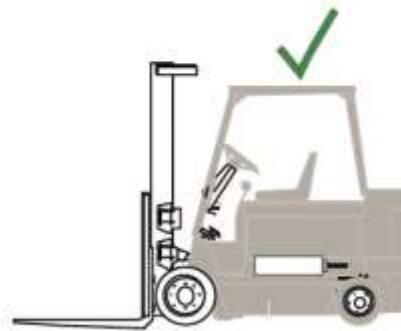
10. Mount the impact sensor on a stable section of the vehicle's frame.

Verify the impact sensor cable will reach the mounted VAC location.

Select a location that is not prone to vibration or routine shock and is as close to the center of the vehicle as possible (see below).

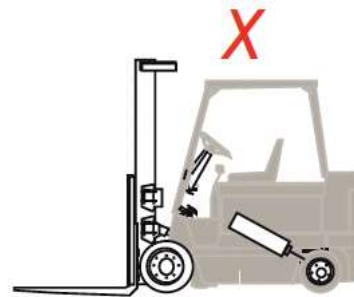
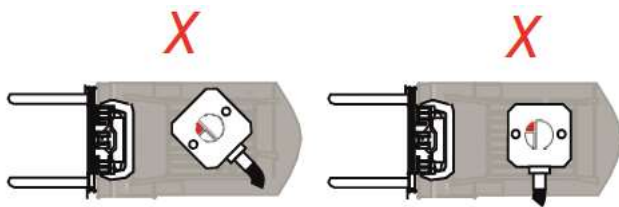


Center of vehicle



- Impact sensor should be mounted near the vehicle's center of gravity, as shown above.
- Impact sensor cable should protrude toward the back or front of the vehicle, not to the sides or at an angle.

- Impact sensor should be mounted parallel with the ground.
- Impact sensor should be secured to the vehicle frame.



Clean the vehicle surface prior to adhering the impact sensor's double-sided tape. The supplied tape cannot be reused. If the sensor must be moved, new tape must be used.

Do not mount the impact sensor with screws.

Do not leave excess cables resting on top of the impact sensor as this may produce false impacts.



11. Determine cable routing path.

- Avoid installing or coiling the cables adjacent to the high-current cables or high-noise sources (e.g., motors)
- Avoid routing through pinch points that may damage the cable jacket.
- Check that the vehicle connectors will fit through any 'holes' the cable has to route through. Routing from the 'middle' outward is often the most efficient method.
- Avoid routing through areas containing, or often in contact with, chemicals and/or corrosive material.
- Avoid areas where the cables may become submerged in water.

12. Route the cables that plug into the VAC.

Ensure connectors and pins are not damaged or coated with dirt while routing the cables.

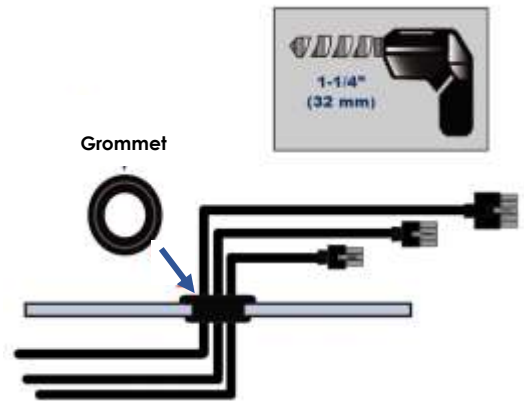


12a. Whenever possible, route cables via the vehicle's established cable paths and pass the cables into the vehicle using existing access areas.



12b. If existing cable channels are not available:

- Select a safe, unobstructed location where the cables can enter the vehicle and route to their respective connection points.
- Use a 1-1/4" (32 mm) bit to drill a cable access hold at the location identified in the previous step.
- Route the VAC and Impact Sensor cables through the cable access hole.
- Fit the grommet snugly into the cable access hole.



13. Remove the cable cover.

13a. Using 2.5 mm Hex Key (Allen key), loosen the security screw at the top of the cable cover until the top of the cable cover can be removed.



Do not completely remove the security screw.





13b. Press in the latch at the bottom of the cable cover and remove the cable cover.



14. Slide the VAC, Impact Sensor, and (if applicable) Sensor Hub cables through the cable cover.

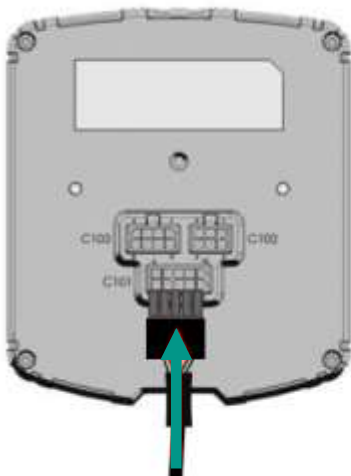




15. Connect the VDI, Impact Sensor, and (if applicable) Sensor Hub cable connectors to their respective ports.



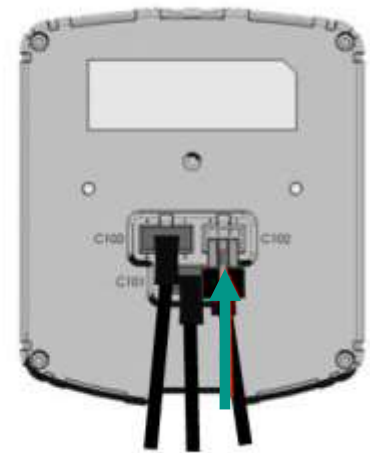
Verify that the connector latches are engaged to ensure that the cables are secured to the VAC.



The 10-pin VDI cable connector to port C101.



The 8-pin Impact Sensor cable connector to port C103.



The 6-pin Sensor Hub cable connector to port C102.

16. Leave at least 2" to 4" of cable slack (looped) to allow for strain relief from later bracket adjustments.

Position the bracket to ensure cables are not stressed against ball joints.



2-4" cable slack



Ball joint to the side to allow for strain-free cable routing.



21. Log into the VAC as a Maintenance operator and select “Install” to run the configuration wizard.

Contactless reader VAC – Enter the maintenance operator ID and password using the VAC keypad.

Maintenance ID: 7262468

Maintenance password: 2378

Master ID: 7278737

Master password: 5915

If needed, refer to the *Powerfleet Hardware User's Guide* for details on running the configuration wizard and routine troubleshooting.





22. Verify the Basic configuration wizard completes successfully.

If configuration fails, address any issues identified by the VAC and re-run the configuration wizard.

23. If optional sensors were installed, select "Sensors" to proceed.

If no optional sensors were installed, select "Done" to exit the Configuration Wizard.



24. Each sensor function must be assigned to the connection associated with the physical installation.

The VAC uses default assignments by vehicle type; however, these can be changed using the "Edit" menu options.

Note: Depending on the license key used, some sensors may not be listed in the assignment screen.

| Assignment Code (edit mode) | Assignment Display (read mode) | Vehicle Connection | VAC Connection | Typically Used For |
|--------------------------------|-----------------------------------|-------------------------|-------------------|--------------------------------------|
| 000 | Disabled | - | - | - |
| 105 | 105 | Sensor | HUB VIM 5 | Fork load |
| 107 | 107 | Sensor | HUB VIM 6/7 | Output alert |
| 110 | 110 | White/Green (Pair 1) | HUB VIM 10/11 | Engine Temperature or PPD Warning |
| 111 | 111 | Red/Black (Pair 2) | HUB VIM 10/11 | Oil Pressure or PPD Alert |
| 252 | 252 | VDI cable | VAC C101 | VDI data |



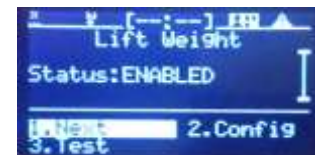
25. Verify the configuration of each sensor that is installed.

Fork Load Sensor

1. Select a load sensor profile (Forklift, Pallet jack) using "Select" or choose "Next" if the profile is already correct



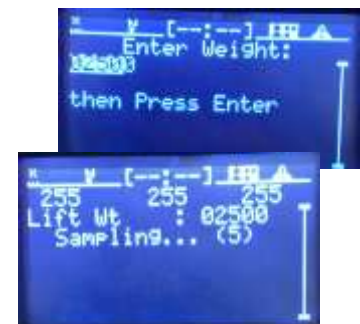
2. Select "Config" and follow the on-screen instructions.



3. Calibrate an 'empty' vehicle.
 - a. Lower the forks or other attachment so there is no force on the truck.
 - b. Select "OK."
 - c. Select "OK" again to get the sampling screen.
 - d. Lift the forks/attachment at least 3 inches from the previous position (higher if the vehicle is capable).*
 - e. The sample count will decrement for each lift/lower.



4. Calibrate a 'loaded' vehicle.
 - a. Enter the weight (in pounds) of your sample (ideally 2500 lbs.).
 - b. Select "OK."
 - c. Lift the forks/attachment with the identified load at least 3 inches from the previous position (higher if the vehicle is capable). *
 - d. The sample count will decrement for each lift/lower.

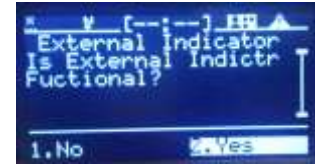


**Note: For best results, waiting 3-4 seconds between lift and lower.*



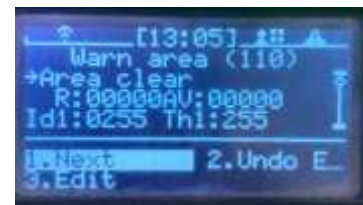
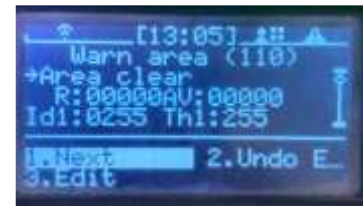
Output Alert (Ext. Indicator)

1. Verify the Ext. Indicator. assignment is correct (e.g., 107 for HUB VIM7)
2. When the External Indicator screen is displayed validate that the installed output alert (horn, alarm, strobe, creeper speed, etc.) is active (within 5 seconds)
3. If the output alert is active, select "Yes."
4. If the output alert is not active, select "No" and check the installation and VIM assignment.



Pedestrian Proximity Detection

5. Verify the WarnArea assignment are correct (e.g., 110 for HUB VIM10)
6. Change the Id1/Th1 and Id2/Th2 values for the WarnArea using the "Edit" menu so that:
 - a. ID1 = 0000
 - b. Th1 = 050
 - c. ID2 = 0000
 - d. Th2 = 050
7. Verify there is no active area breach and the screen indicates "→ Area clear"
8. Enable create a warning area breach
9. Verify the "AV" value changes to a value outside the Id1+/- and Id2+/-Th2 ranges
10. The screen will change to "→ Area breach"
11. If the "AV" value is not outside the Id1+/-Th1 and Id2+/-Th2 ranges
 - a. Change the Id1/Th1 and Id2/Th2 values using the "Edit" menu so that:
 - i. AV with no breach is between Id1+/-Th1 or Id2+/-Th2 ranges
 - ii. AV with a breach is outside Id1+/-Th1 and Id2+/-Th2 ranges
 - iii. Return to step 7 to retest
12. Change the Id1/Th1 and Id2/Th2 values for the WarnArea using the "Edit" menu so that:
 - a. ID1 = 0000
 - b. Th1 = 050
 - c. ID2 = 0000
 - d. Th2 = 050
13. Verify there is no active area breach and the screen indicates "→ Area clear"
14. Enable create an alert area breach
15. Verify the "AV" value changes to a value outside the Id1+/- and Id2+/-Th2 ranges
16. The screen will change to "→ Area breach"
17. If the "AV" value is not outside the Id1+/-Th1 and Id2+/-Th2 ranges
 - a. Change the Id1/Th1 and Id2/Th2 values using the "Edit" menu so that:
 - i. AV with no breach is between Id1+/-Th1 or Id2+/-Th2 ranges
 - ii. AV with a breach is outside Id1+/-Th1 and Id2+/-Th2 ranges
 - iii. Return to step 7 to retest





Counters

1. The VAC permits assigning meter offsets to better reflect the status and history of a vehicle (rather than having all meters start reporting from zero).
2. To change the 'baseline' count for any meter, select "Edit" and type the baseline values for the meter.



NOTE: The VAC meters are in MINUTES, so if copying from an Hour meter, multiply the Hour Meter by 60 using a calculator.

26. Install cable ties to strain relief cables.

Secure all cables, wires, etc. and then completely reassemble the vehicle.

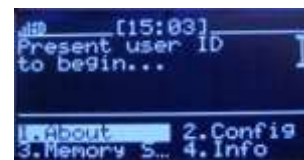
27. Wi-Fi Configuration (for Wi-Fi enabled VACs only)

If the VAC has not received a valid Wi-Fi configuration from a WAM or other VAC in transmit mode (refer to the *Powerfleet Hardware User's Guide* for details), these credentials can be entered manually or synchronized via VAC Jack.

 **Validate compatibility using the Powerfleet Wi-Fi Test tool before proceeding!**

27a. Manually entering Wi-Fi credentials on the VAC using the keypad.

27a-1. Log into the VAC as a Maintenance Operator or IT Operator.



27a-2. From the main menu, select the Wi-Fi menu option.



27a-3. If the VAC is in range of wireless networks, a list will appear on the VAC screen.



27a-4. For sites using STATIC IP ADDRESSES for VACs (DHCP sites should skip this step).

27a-4a. Select "VAC IP"

27a-4b. Select Static

27a-4c. At prompt, enter the requested IP, Subnet Mask, and Default Gateway values, then press ENTER. ****Use leading zeros as appropriate.** (e.g., IP Address "150.215.17.9" is entered as "150.215.017.009")

27a-5. Enter the details of the server running system application software.

27a-5a. Select "Server IP"

27a-5b. Select the server IP 'type' (Static IP or Domain Name)

27a-5c. Type in prompted data using either the Server IP or Domain Name

27a-5d. Type the Server Port

****This information is provided to you by Powerfleet. ****

Note: The 27a-5 steps must be followed in the order specified for the VAC to connect to the server

27a-6. Select the *Connect* menu option.



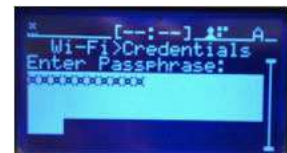
27a-7. Select the desired wireless network.

27a-7a. If the VAC display lists the desired SSID, use the up and down scroll arrows to select the desired SSID from the list.

- Press the ENTER key.
- Enter the credentials for the selected SSID in the locations provided. Use the navigation arrows to skip to different areas of the text entry boxes.

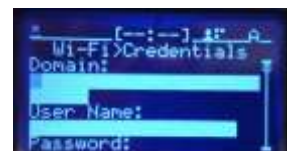
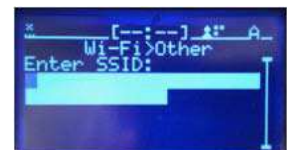
Note: For WEP credentials, 10 or 26 HEX (0-9; A-F) characters must be entered (ASCII entry not permitted).

- Press ENTER key.
- The VAC will automatically attempt to connect to the selected SSID using the credentials provided.



27a-7b. If the VAC display does not list the desired SSID, select the OTHER menu option and press ENTER.

- Using the VAC keypad, manually enter the SSID.
 - Select the security method that corresponds with the SSID.
 - Enter the credentials for the SSID.
- Note: For WEP credentials, 10 or 26 HEX (0-9; A-F) characters must be entered (ASCII entry not permitted).*
- The VAC will automatically attempt to connect to the SSID using the credentials provided.





Note: To successfully content, the VAC must be within wireless communication range of the SSID.

27a-8. Once connected, the VAC screen will display the Wi-Fi status indicator.

27a-9. For instruction on how to broadcast the VAC's Wi-Fi credentials to nearby VACs that have not been configured, refer to the *Powerfleet VAC4 Hardware User's Guide*.

27b. Loading Wi-Fi credentials from a configured USB Flash Drive using a VAC Jack.

27b-1. Insert a configured USB flash drive in the VAC Jack (refer to the *Powerfleet Hardware User's Guide* for information on configuring the USB flash drive).

27b-2. Connect the VAC Jack to the VAC.

- Unplug the Vehicle Cable from the VAC.
- Plug the AC wall adapter into the VAC Jack to power up the VAC Jack.
- Make sure the VAC Jack button is pressed in and the corresponding LED is on.

27b-3. Plug the VAC Jack into the VAC.

27b-4. The VAC Jack button LED will illuminate while reading data from the USB and programming the VAC. During this time, the VAC will indicate programming status via LEDs and an on-screen progress message.



27b-5. Once complete, unplug the VAC Jack from the VAC.

27b-6. If powered by the Vehicle Cable, unplug the Vehicle Cable from the VAC Jack and plug the Vehicle Cable back into the VAC.

27b-7. The VAC's default Wi-Fi configuration used DHCP. To configure the VAC to use a Static IP address, refer to sub-steps Steps 27a-1 – 27a-6 to configure the IP address of the VAC.

27b-8. With the VAC installed, it will automatically attempt to connect using the new Wi-Fi credentials.