

LV300.PS Installation - Installation Steps:



- Insert (4) 8/32 mounting screws through the slotted holes in the device cradle.



LV300.PS Installation – Installation Steps:



- Install the device cradle on the crossmember.
 - a. Align screws with holes in crossmember.
 - b. Ensure cradle tamper switch is oriented in direction of device power cable.
 - c. Push screws through holes in crossmember.
 - d. Install nuts (4) onto screws (4).
 - e. Tighten screws and nuts to 19 inch-lbs.

Note: Orient device and cradle so that device cable is towards Chassis electrical harness.



LV300.PS Installation - Installation Steps:



1. Install LV300 device into cradle.

- a. Ensure device tamper switch and cradle tamper switch are aligned.
- b. Push one side of device flange under one side of cradle's retention tabs.
- c. Snap device under retention tabs on other side of cradle.
- d. Ensure all (4) cradle retention tabs are engaged on device flanges.

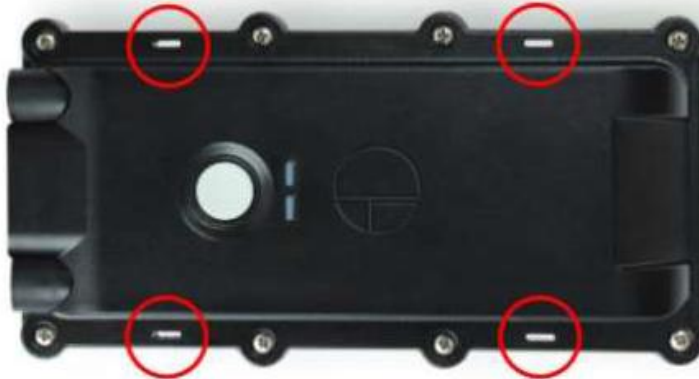
Note: If device is not properly installed in the cradle, a reporting error will result.



LV300.PS Installation – Installation Steps:



1. Install cable tie through each hole (4) in device flange and around cradle retention tabs (4).
2. Cut excess cable tie with flush cut diagonal cutter or cable tie tool.



LV300.PS Installation - Power Connection:



- Install rubberized P clamp between the device and power connector
- Using (2) supplied spring clamps secure power cable along the top edge of crossmember.



LV300.PS Installation - Power Connection:



- Route power cable to the chassis OEM power drop location.
- Apply a small amount of dielectric grease to LV300 power connector face.
- Connect the LV300 connector to the OEM power drop connector.
- Ensure locking tab is engaged.



LV300.PS Installation (Power Connection)



- Secure power connector to existing cabling to prevent disconnect.
- Secure power cable every 12 to 18 inches using wire ties.
- Cut excess cable tie with flush cut diagonal cutter or cable tie tool.



LV750 Installation – LV750 Kit:



- LV 750 Weight Gauge
(Part Number 935-00055750)
- BLE / Battery Module
- Strain Gauge Sensor.
Note: Wire Loom is now pre-installed
- Weight Sensor Cover.
- Installation Hardware
- Worm-drive cover clamps



LV750 Installation – Installation Steps:



Strain Gauge Sensor Example 1.

- Smooth end is the adjustment side (Block B).
- Grooved end is the fixed side (Block A)



Strain Gauge Sensor Example 1.

Strain Gauge Sensor Example 2.

- Top View of Mounting Blocks A & B



Strain Gauge Sensor Example 2.

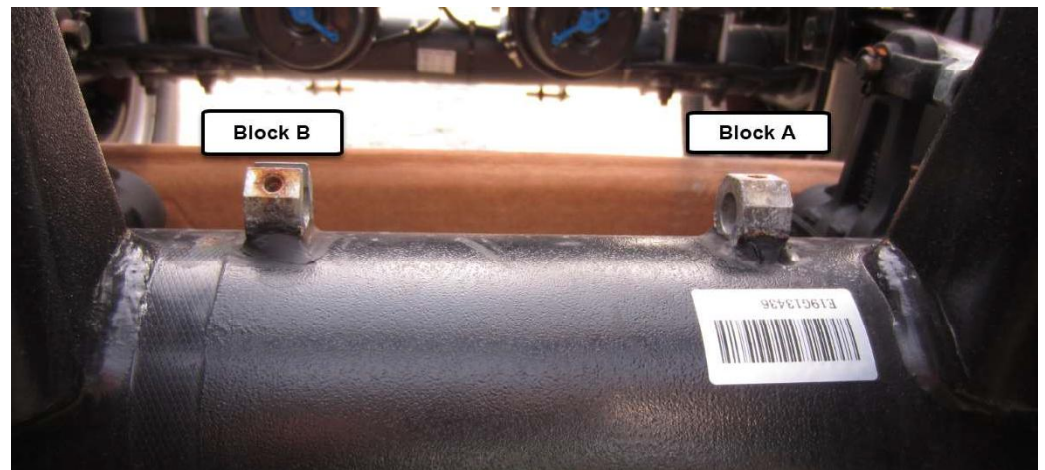
LV750 Installation – Installation Steps:



Mounting blocks are preinstalled on the rear axle by the chassis OEM.

1. Locate Mounting Block A & B:
2. If present, remove existing set screws from mounting blocks and discard.

Note: Do not reuse set screws.

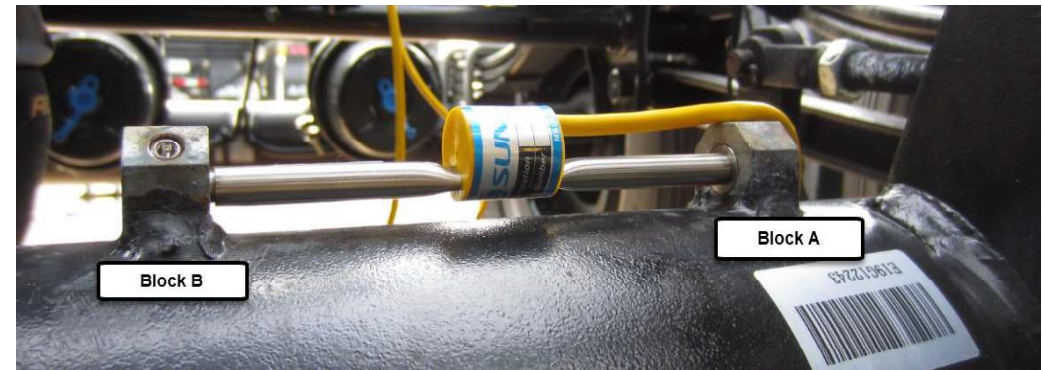


LV750 Installation – Installation Steps:



1. Install sensor into mounting blocks.

- a. Apply Thread locker (Loctite 262) onto the stainless-steel set screws (3) provided in hardware kit.
- b. Thread set screws (3) into each mounting block hole position and turn 2 - 3 rotations; **the sensor should not be engaged by the set screws.**
- c. With sensor cable towards Curb side, slide sensor through the slot on top of Block B then the grooved side of sensor in-to mounting **Block A**. *See Sensor orientation Example*
- d. Rotate sensor in mounting blocks so cable is positioned on top.

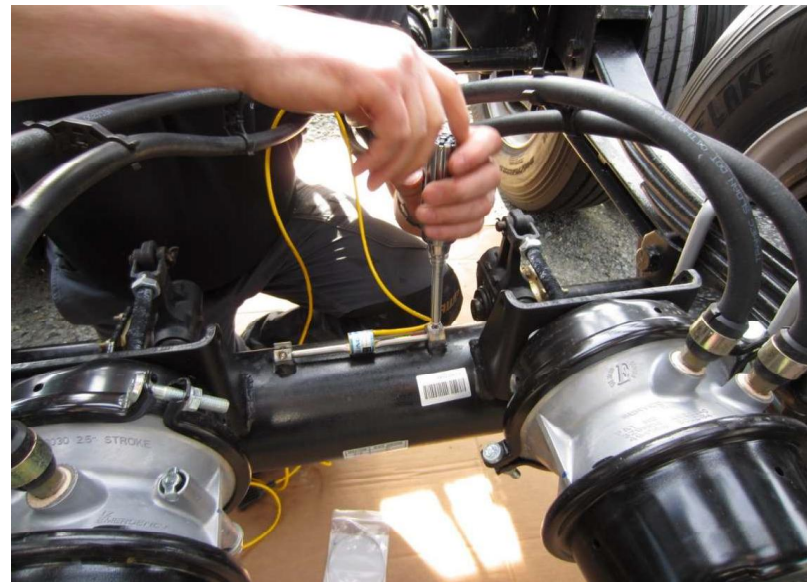


LV750 Installation – Installation Steps:



1. Align sensor ends flush with outside edges of both mounting blocks and tighten the set screw on **Block A** to 36 inch-lbs.
2. Without moving the sensor, turn the (2) set screws on **Block B** until slightly engaged with the sensor.

These (2) set screws will be tightened after calibration.



LV750 Installation – Installation Steps:



- Secure the Strain Gauge Sensor cable to Brake Chamber bracket with wire tie.

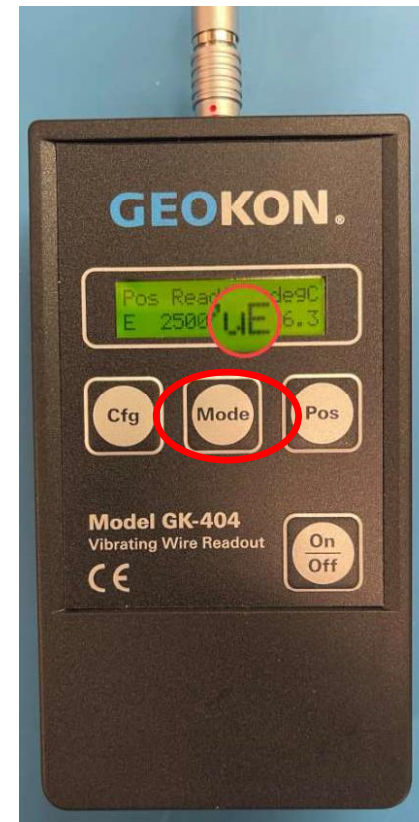
Note: Protective wire loom is now pre-installed from the Manufacture.



LV750 Installation – Installation Steps:



- Connect the Geokon GK-404 Readout Tool and adaptor to the Strain Gauge Sensor Cable.
- The GK-404 mode should be set to microstrain (μE).



LV750 Installation – Installation Steps:



- Adjust the reading by gently pulling or pushing on the smooth end of the Strain Gauge Sensor (Block B Side).

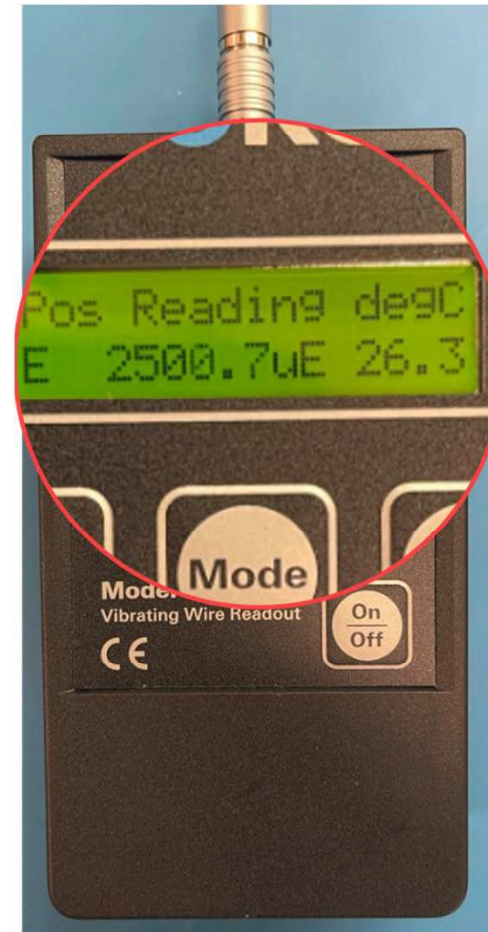


LV750 Installation – Installation Steps:



- Calibrate / adjust the Strain Gauge Sensor to 2500 microstrain +/- 2% (2450 to 2550 uE) and tighten both set screws on Block B between 20-36 inch-lbs.
- Record and document the final Strain Gauge reading and temperature.

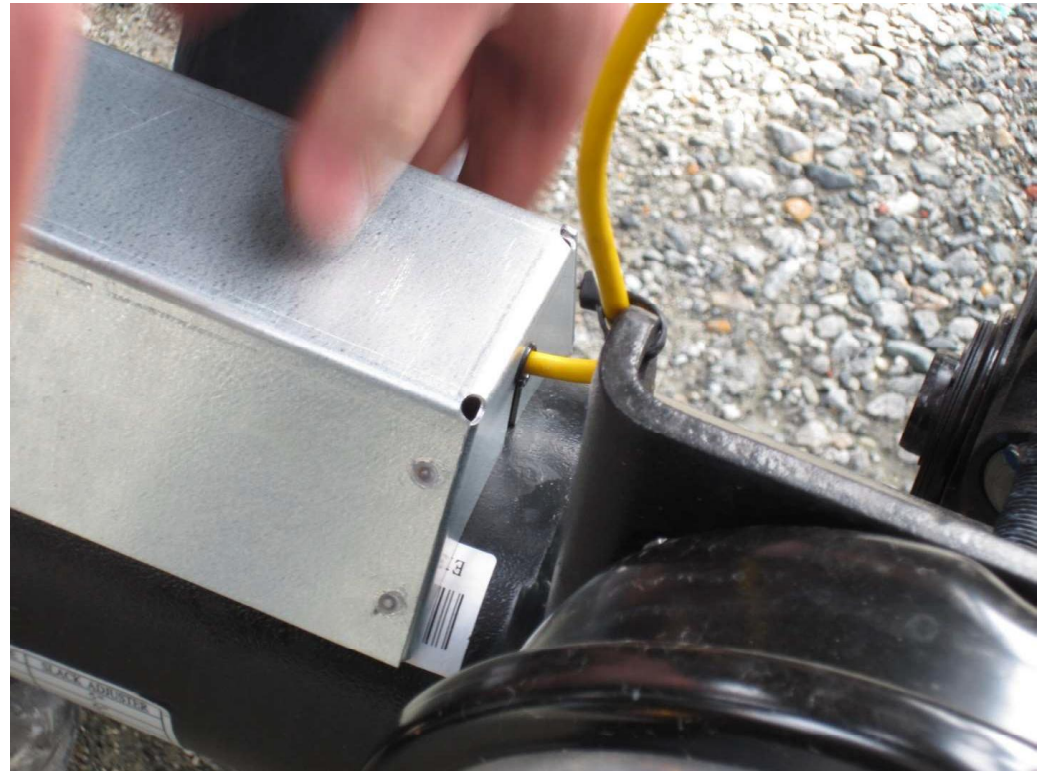
Chassis Vin #	Asset ID#	LV300.PS Serial #	LV750 MAC Address	Strain Gauge Reading	Temperature Reading
XXXXXXXX	FT6231232	62313232	84FFF166	2500.7 uE	26.3



LV750 Installation – Strain Gauge Sensor Cover



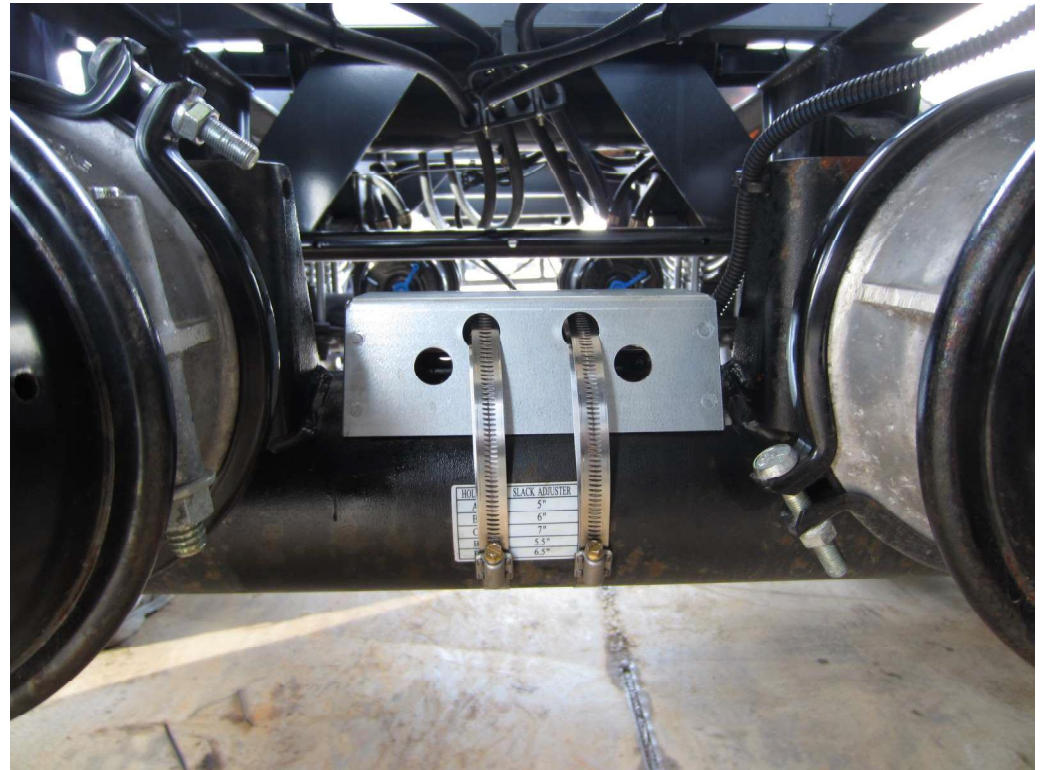
1. Install metal cover over sensor.
 - a. Slide grommet on to cable.
 - b. Slide cable and grommet through slot on the side of cover.
 - c. Press grommet into hole on top of slot on the side of cover.
 - d. Place cover over sensor, leaving approximately ½” between sides of cover and mounting blocks.



LV750 Installation – Strain Gauge Sensor Cover



- Worm-drive clamps should be installed through inner hole set
- Holding Strain Gauge Sensor Cover firmly in place, tighten Worm-Drive Clamp to 70 – 90 inch-lbs.

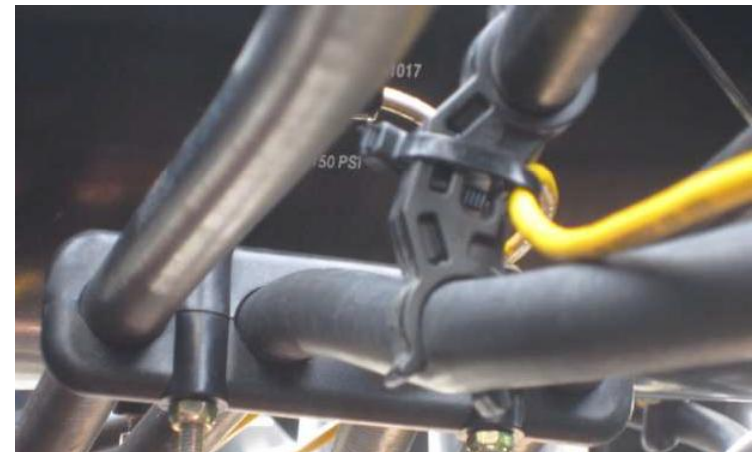


View from rear.

LV750 Installation – Strain Gauge Sensor



- Route Cable forward to the BLE / Battery Module mounting location
- Attach Cable to existing cables using wire ties every 12 to 18 inches.
- Cut excess cable tie with flush cut diagonal cutter or cable tie tool.

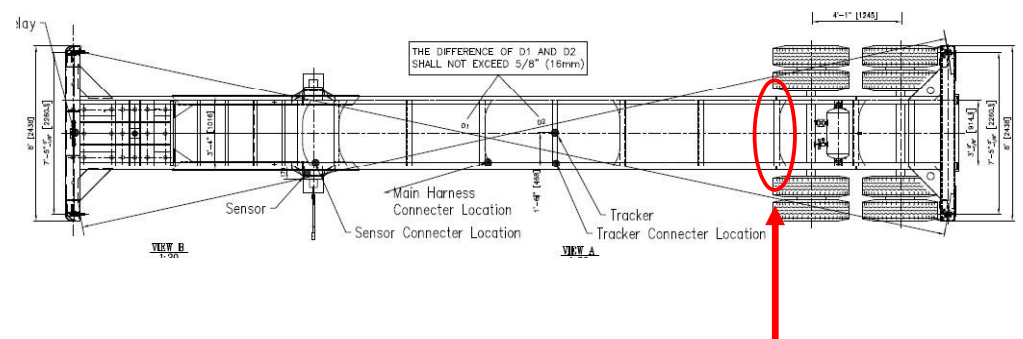


LV750 Installation – BLE / Battery Module Location



Select the BLE / Battery Module mounting location.

The BLE / Battery Module should be mounted on the rear side of crossmember.

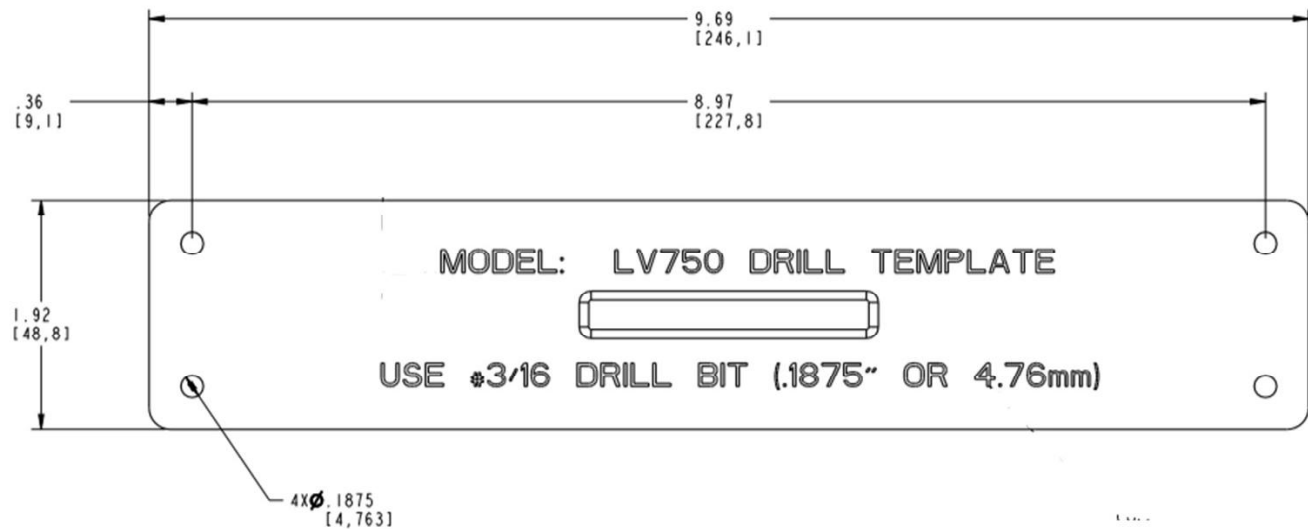


LV750 BLE / Battery Module Location

LV750 Installation – BLE / Battery Module



Using the BLE / Battery Module or Template, mark the location for the 4 mounting screw holes using a spring-loaded punch.



LV750 Installation – BLE / Battery Module



At the marked locations, drill (4)
7/32" holes.



LV750 Installation – BLE / Battery Module

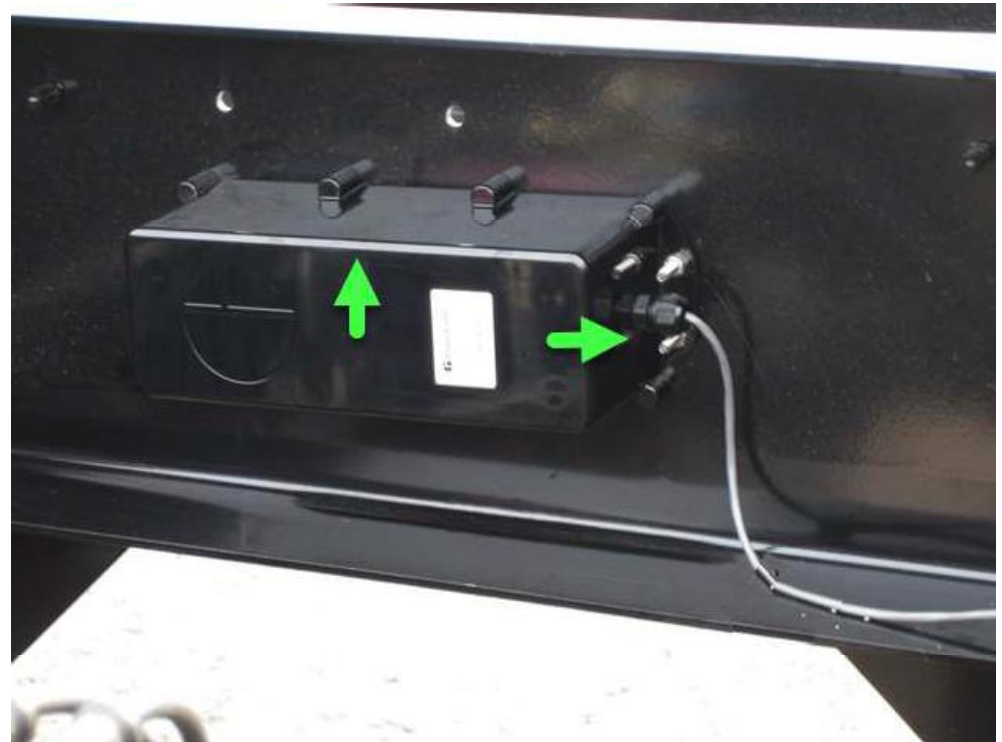


The BLE / Battery Module should always be mounted with connector cable pointing to the right.

Align the module with the drilled holes on the rear side of crossmember.

Insert screws (4) from the front side of crossmember through the holes (4) in module mounting flanges.

Install flat washer and self-locking nut onto each screw (4) and tighten to 19 inch-lbs.



LV750 Installation – BLE / Battery Module



1. Connect BLE/Battery module to sensor cable.
 - a. Apply dielectric grease to sensor connector face.
 - b. Connect module connector to sensor connector. Ensure locking tab is engaged.



LV750 Installation – BLE / Battery Module



- Secure Sensor Cable to the top edge of crossmember using (2) supplied Spring Clamps.
- Secure any excess sensor cable to existing cabling on main frame rail using wire ties.



The Final Step.



- Apply +12 VDC to ABS/Aux circuit at chassis 7-way connector for a minimum of 5 minutes.
- Confirm the Asset Identification number, LV300 Serial Number and LV750 Serial number and MAC Address match.
- Send Email with Installation records at the end of each workday to PowerFleet Customer Support.
 - Email -logisticssupport@powerfleet.com

