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RK3000 Unit
Self Installation Guide

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What's in the box ?

V-QJ11 (DEC 2022)

RK3000-CA Unit

Power cable + Drum cable connection

Drum Sensor

Drum Sensor Bracket

Drum sensor cable

Drum Magnet

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Connections for 12V - 24V

About the power cable:

- Three of which are 8 ft long and bundled.
- Power cable has a bunch of 6 inches wire coming from it.
- Only use the **RED**, **WHITE**, **BLACK** wires that has a sleeve in it.

Of those three you have:

- **RED**, fused - this is the 12-24V power.
- **WHITE** fused - this is an ignition sensor.
- **BLACK**, non-fused - this is chassis ground.

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GPS Unit Installation

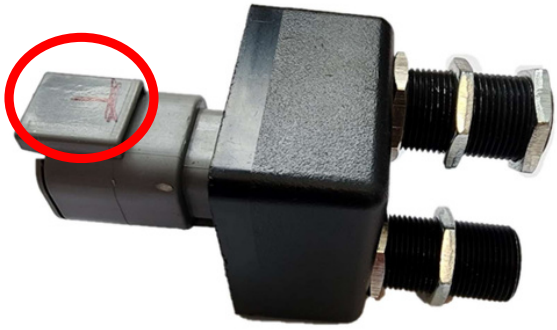
- The unit should be installed in a dry location that will not have water infiltration. An adequate location is within the dash. Alternatively, some install the device in the glove compartment. It should be installed in a way that it resides over 2 ft away from the driver and passengers.
- While a relatively good install, it does expose the unit to potential tampering. Tamper evident paste is recommended especially if such an install is chosen.
- Since the unit contains the antenna, please install it somewhere that does not have metal between the unit and the sky, as that may affect GPS reception.
- Once installed, turn the ignition ON.
- The GREEN GPS light will blink until it acquires a signal, and it will turn solid once it has been acquired.
- The RED CELL light will blink until it acquires a signal, and it will turn solid once it has been acquired.
- If you see a distinct “three fast, one long” blink pattern, double check that the unit is indeed getting a signal through the ignition wire. The lights are positioned to the left of the power + input connector.

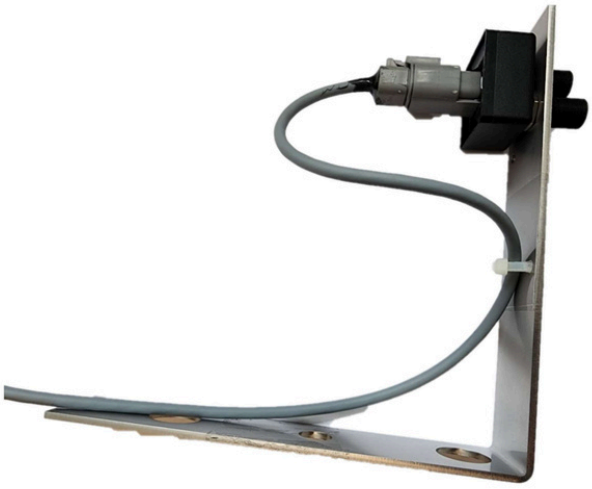
For more information, check out this video:
https://www.youtube.com/watch?v=W-ip8IGrLL8

Drum Sensor Installation

The Drum hardware comprises the Drum Sensor, Drum Sensor Bracket, Drum Sensor Cable, and Drum Magnet. For every Drum Sensor, five nuts are included, one being a spare.

- Fasten one nut on each post roughly three quarters down.
- Place the sensor into the bracket as shown.





- The side marked “TOP” or “T” should be upwards (rear-end discharge).
- For front-discharge vehicles the side marked TOP must be installed downwards (see page 9 & 10).
- Fasten one more nut on each post until flush with the bracket.

Drum Sensor Installation

- There are pre-drilled holes for a tie-wrap, this can be used to fasten the cable to the bracket.
- With the sensor and bracket fastened together comes affixing them to the drum gearbox pedestal.
- Affix the bracket to the drum gearbox pedestal on the driver's side of the vehicle.

For optimal Drum turn capture the sensor's posts should have a clearance of 1/2" with the magnet, you may bend the bracket to acquire the necessary position.

- Fasten one nut on each post roughly three quarters down.
- Place the sensor into the bracket as shown.

With the sensor in place, clean an area of the Drum that passes in front of the sensor.

Use a wire brush, wipe off dust, grease, and acid residue.

Drum Sensor Installation

Place the magnet in such a way that it approaches the sensor with its longest side (see picture below).

We recommend attaching the magnet in place temporarily (without glue) for this step.

- Run the cable to the unit, it can be cut to remove extra cabling.
- Then, your next step is to connect the Drum sensor's wires to the Power Cable :
- **VIOLET** and **GREY** are your two inputs for the Power Cable. **BLACK** is for your ground.
- Take the Drum Cable's **GREEN** wire and connect it to the Power Cable's **VIOLET** wire.
- Take the Drum Cable's **BROWN** wire and connect it to the Power Cable's **GREY** wire.
- Finally, take the Drum Cable's **YELLOW** and **WHITE** wire and connect it to the Power Cable's **BLACK** wire.

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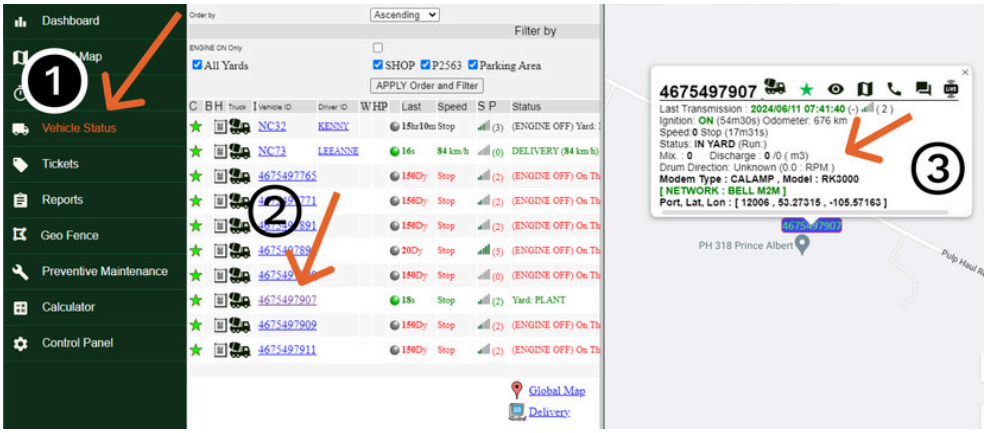
Drum Sensor Installation

- Test the installation by turning the Drum and monitoring the vehicle status. Your website – “Vehicle Status” – “Vehicle ID”.
- Mix turns are counted and sent along other transmissions whereas a discharge turn will force a transmission, therefore it is recommended to begin testing with discharge turns.
- Once the turns are being accurately reported, remove tape + magnet, apply two inches of goop, and place the magnet back.

When everything is functioning properly, you should see the following on the platform:



- It is recommended to tape the magnet to the Drum once again after application of goop, for at least 24 hours.

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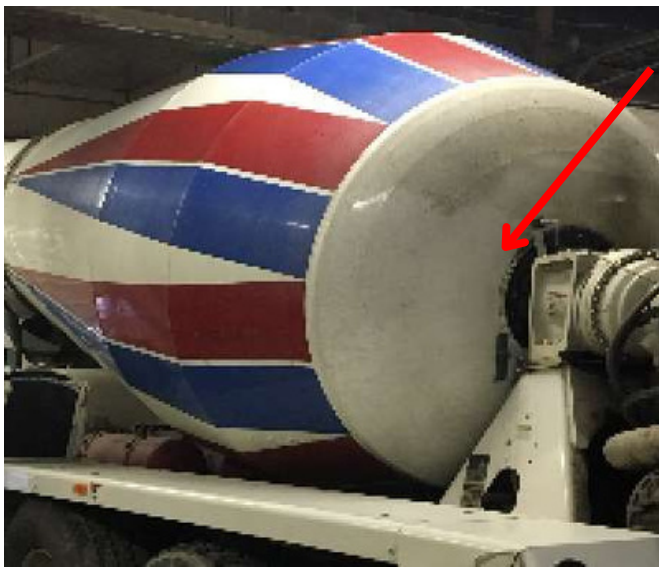
Drum Sensor Installation
Front Discharge Only

Use same information as above accept the installation of the bracket on the gearbox pedestal and the position of the drum rotation sensor.

These notes and images are exclusive for front-discharge vehicles. The standard cable is 20FT long, this is not adequate for front-discharge vehicles. A 35FT version is provided if we are told in advance of the vehicle type.

Front-discharge with bracket installed ON DRIVER'S SIDE.



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Drum Sensor Installation
Front Discharge Only

Sensor installed with “TOP” marker upside down.

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