# Prerequisites

Required Information

- Name of asset *(ex: Trailer, Generator, Rolloff etc)*
- Detailed information about the asset *(year, make, model, VIN, license plate, etc.)*
- State, area, organization, or group the asset belongs to *(ex: Texas - Midland - Equipment, etc.)*
- SmartHub ID (which is the device serial number) of each device to be installed *(The ID is found on the top of each unit. Each sensor needs to be recorded and associated with each tire position installed)*

Required Equipment

SmartHub Sensor Node
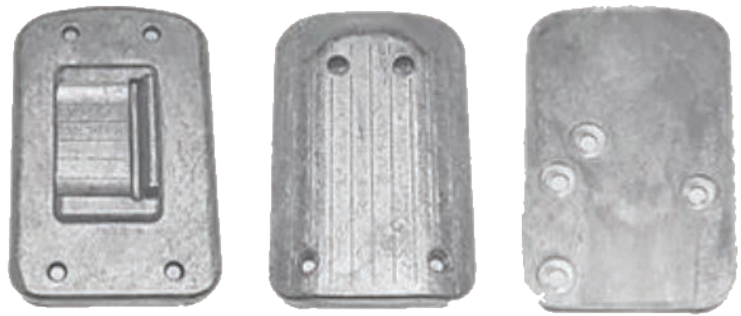
Shims (for your make and model)

Epoxy

Required Tools

Wire drill attachment and brake cleaner to clean wheel hub for placement of sensor

⚠️ **Before You Begin**

- You will need credetials for the installation application (see page 7) before you can begin any installation. Speak to your Pedigree representative for those credentials.
- Each sensor is equipped with a unique ID that is recorded at the time of installation along with the tire position on the asset.
- The installation instructions in this guide may vary based on the tractor or trailer year, make, model and configuration.

Installation

HARDWARE /ASSET IDENTIFIERS

BEFORE INSTALLATION
Arrange the SmartHub Nodes in their intended installation locations, working from front to rear and the left to right of the asset. Each node needs to be accurately recorded within the ConMet Install Manager App **(see page 7)**

The front of the truck is considered the steer axels, where left is the driver side and right is the passenger side. The front of a trailer is considered to be where the 7-way and glad-hands are located. Looking from the rear of the trailer towards the landing gear, the left is considered to be the driver side and the right is the passenger side.

Scan the QR code located on the top of each SmartHub node for all the intended hub install locations.

NODE INSTALL AND PROVISIONING CONFIRMATION

1. Prep all of the hub mounting locations as outlined in the installation guidelines.

2. Remove the activation magnet on one SmartHub node at a time and install that node as outlined in the installation guidelines. Repeat this process until all of the applicable nodes have been installed.

3. Confirm the gateway(s) and all applicable SmartHub Nodes been successfully provisioned in the ConMet Install Manager App.

Successful provisioning times may vary depending on network conditions.

All hardware should be provisioned using the ConMet Install Manager App prior to installing any hardware onto the asset as the identifiers can be difficult to capture subsequent to the installation.

SmartHub Node Remove Magnet

SmartHub Node QR Code

10089056
5466F9
E10DCA

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Installation - STEER HUB

Step One
Hub Preparation

Clean the wheel pilot that is closest to the ground with a wire wheel drill attachment and brake cleaner. Although the wheel pilots vary in size, this is a common contour and location for a wheel pilot on a steer hub.

A dry fit of the shim onto the wheel pilot should be done prior to continuing to step 2.

Step Two
Adhesive Application

Break the center seal on the two part epoxy burst pack and thoroughly mix the two parts together n**o less than 20 times**. Cut a small corner of the pack and dispense the epoxy onto the bottom of the aluminum shim to the surface area that makes the most contact with the wheel pilot.

This should only be done when you are ready to install the node as the epoxy cures quickly.

Step Three
Node Mounting

Orient the node onto the wheel pilot against the flange and firmly press it into place so the epoxy spreads over the wheel pilot mounting surface.

Hold the node in place applying firm pressure for approximately 1 minute.

Confirm that the activation magnet has been removed.

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Installation DRIVE HUB

Step One
Hub Preparation

Clean the drive hub area that is closest to the top of the barrel with a wire wheel drill attachment and brake cleaner.

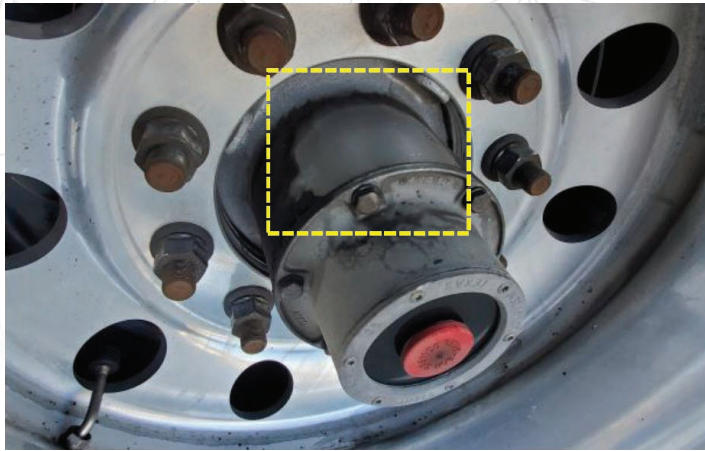Although drive hubs vary, this is a common contour and position on a drive hub.

A dry fit of the shim onto the wheel pilot should be done prior to continuing to step 2

Step Two
Adhesive Application

Break the center seal on the two part epoxy burst pack and thoroughly mix the two parts together **no less than 20 times**. Cut a small corner of the pack and dispense the epoxy onto the bottom of the aluminum shim to the surface area that makes the most contact with the wheel pilot.

This should only be done when you are ready to install the node as the epoxy cures quickly.
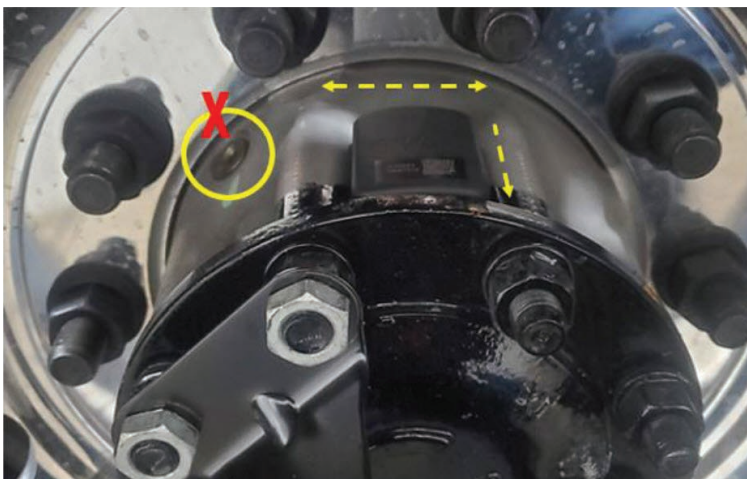
Step Three
Node Mounting

Center the node between two hub-barrel flutes but not in-line with a fill port. Firmly press it into place so the epoxy spreads over the hub mounting surface.

Hold the node in place applying firm pressure for approximately 1 minute.

Confirm that the activation magnet has been removed.

Installation TRAILER HUB
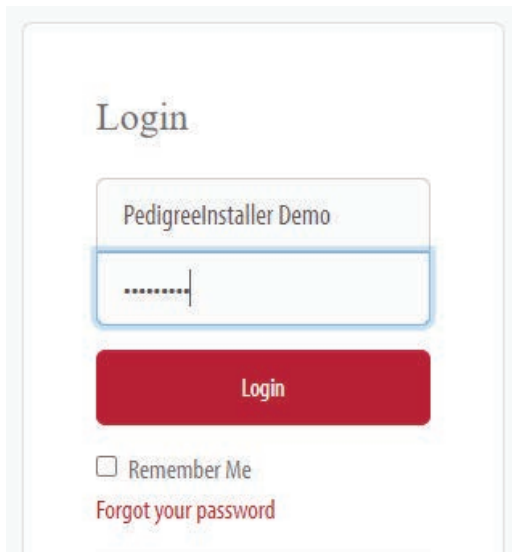

Step One
Hub Preparation

Clean the trailer hub area that is closest to the top of the barrel with a wire wheel drill attachment and brake cleaner. Although the trailer hubs vary in contour, this is a typical contour and position on a trailer hub.

A dry fit of the shim onto the wheel pilot should be done prior to continuing step 2.

Step Two
Adhesive Application

Break the center seal on the two part epoxy burst pack and thoroughly mix the two parts together **no less than 20 times**. Cut a small corner of the pack and dispense the epoxy onto the bottom of the aluminum shim to the surface area that makes the most contact with the wheel pilot.

This should only be done when you are ready to install the node as the epoxy cures quickly.

Step Three
Node Mounting

Orient the node centered between two wheel studs on the hub which is not in-line with a fill port. Firmly press it into place so the epoxy spreads over the hub mounting surface.

Hold the node in place applying firm pressure for approximately 1 minute.

Confirm that the activation magnet has been removed.

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Installation Application

USE CONMET DIGITAL TO ACTIVATE

Login to the following web portal with credentials give to you by Pedigree Technologies:
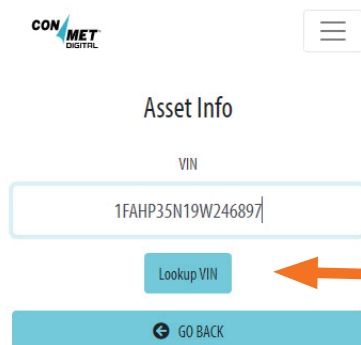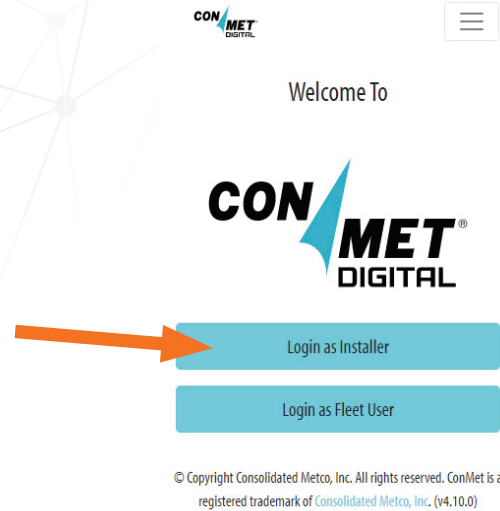
https://install.digital.conmet.com/

Click Login as Installer and follow the Installation steps in the application (outlined here).
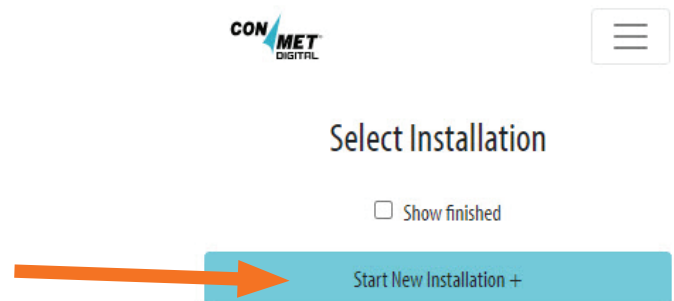
1 Login with the credential given to you by Pedigree Technologies
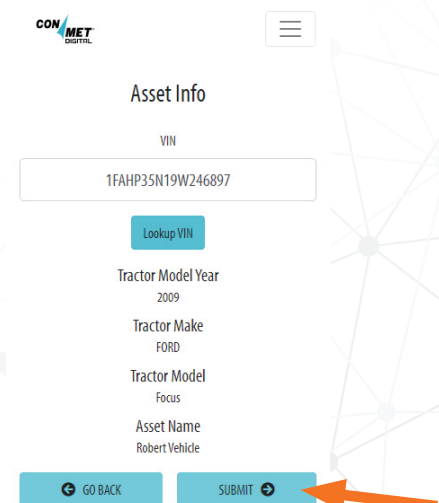
2 Start a New Installation

3 Enter VIN and choose "look up"
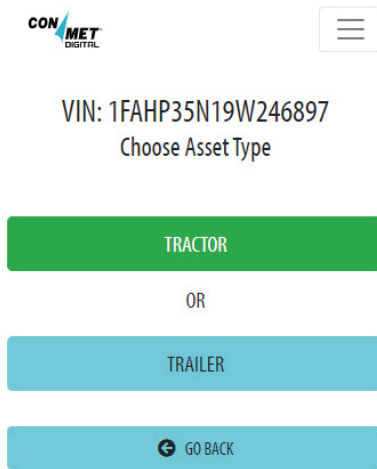
4 Confirm Vehicle name and make/model/year, then Submit

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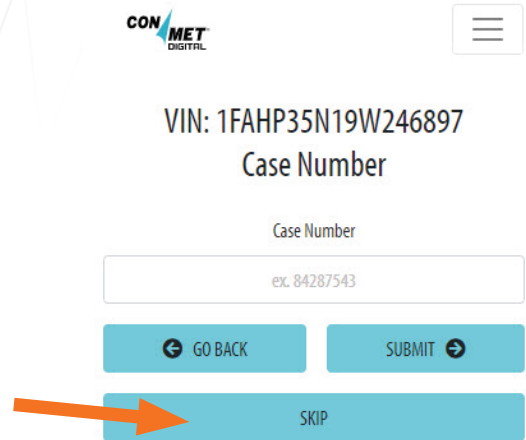
Installation Application
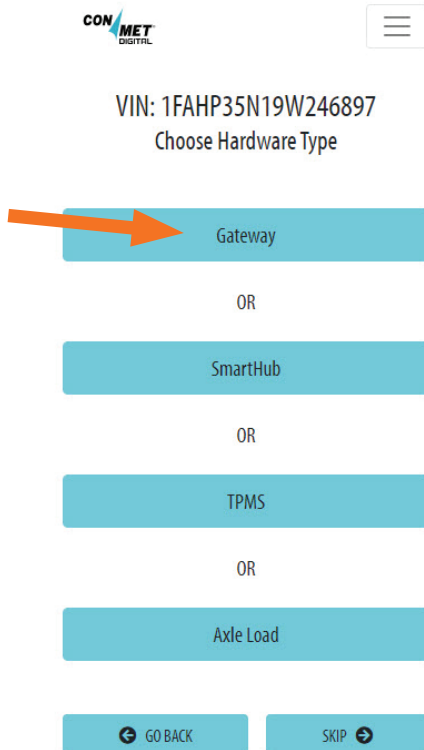
5 Select Vehicle Type - Tractor or Trailer

VIN: 1FAHP35N19W246897
Choose Asset Type

TRACTOR

OR

TRAILER

GO BACK
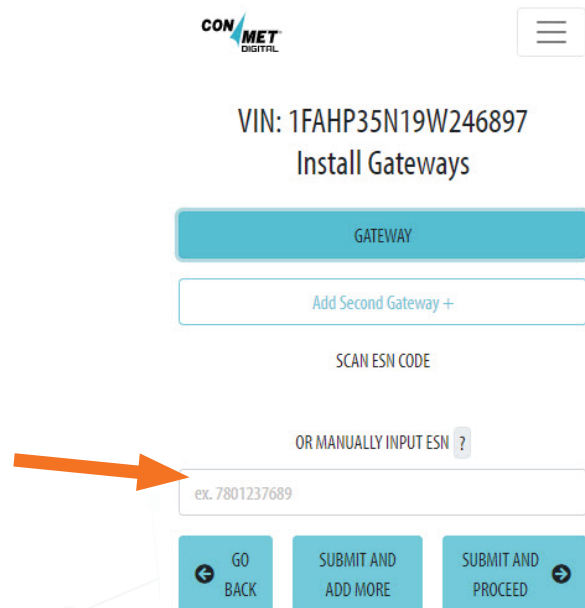
6 Skip the Case Number step (tap Skip)

VIN: 1FAHP35N19W246897
Case Number

Case Number

ex. 84287543

GO BACK   SUBMIT

SKIP

7 Select Gateway

VIN: 1FAHP35N19W246897
Choose Hardware Type

Gateway

OR

SmartHub

OR

TPMS

OR

Axle Load

GO BACK   SKIP
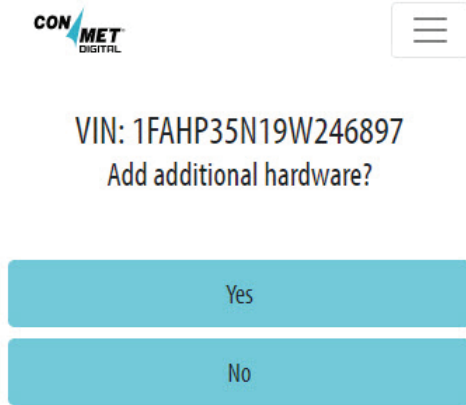
8 Enter the ESN of the asset device - (this is the LMU that will receive the data from the sensors).

VIN: 1FAHP35N19W246897
Install Gateways

GATEWAY

Add Second Gateway +

SCAN ESN CODE

OR MANUALLY INPUT ESN ?

ex. 7801237689

GO BACK   SUBMIT AND ADD MORE   SUBMIT AND PROCEED

Installation Application

9 Tap yes to add additional hardware.

10 Select SmartHub

11 The next screen allows you to set the number of axles and add the Sensor Node device to each tire

1) Set number of axles

2) Tap the hub location to add the Sensor Node ID
   - Use QR code
     Tap Scan QR Code
     Point phone at Sensor Node's QR code on top of device to capture
   - Enter Sensor Node ID manually
     If not using a phone, enter the Sensor's ID located on the top of the device.

3) Repeat for each hub

4) After completing all of the hubs, select Submit and Proceed

OneView
Pedigree Technologies

Testing / Confirmation Steps

12 Select no additional hardware

VIN: 1FAHP35N19W246897
Add additional hardware?

[Yes]

→ [No]

13

There is an optional Upload Tractor Install Photos page. If desired, use your phone's camera to take each of the listed pictures, or use the image icon to attach previously saved images.

VIN: 1FAHP35N19W246897
Upload Tractor Install Photos

Asset

ASSET VIN 📷 🖼️

Gateway

3672007414

GATEWAY LOCATION 📷 🖼️

GATEWAY POWER CONNECTION 📷 🖼️

SmartHub

DRIVE LEFT 1 📷 🖼️

DRIVE RIGHT 1 📷 🖼️

[← GO BACK] [PROCEED →]

Call Pedigree Technologies installation support if you need help with your installation.

701-499-0022