PeopleNet Display.5™

INSTALLATION GUIDE

Trimble

FCC COMPLIANCE

Non-authorized modification could void authority to use this equipment. The internal / external antenna(s) used for this module must provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

In accordance with 47 CFR § 15.19, the end product into which this module is integrated shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

Model : PD5
P/N : L019-0516
Input : 12V ⎓ 1A
Contains FCC ID : NKS-PD5-WIFI

CE FC RoHS

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IMPORTANT SAFETY CONSIDERATIONS

For ELD compliance, the device needs to be mounted in a fixed position during the operation of the commercial motor vehicle and visible to the driver when the driver is seated in the normal driving position.

Ensure that the location does not interfere with the driver's operation of the commercial motor vehicle, including view of gauges, and does not protrude over the dash covering the windshield view.

The mounting plate should be located on an area that is flat and can support the weight of the mount arm and the device.

PART LIST

PeopleNet Mobile Gateway Parts

Item	Part Number
PeopleNet Display.5	L-019-0516
Data / Power Cable	L-016-0642
Connection Cable	L-016-0562
RAM Mount	H-050-0013
RAM to Vehicle Screw Pack	H-048-0001
RAM to PeopleNet Display.5 Screw Pack	H-048-0523

PeopleNet Connected Gateway Parts

Item	Part Number
PeopleNet Display.5	L-019-0516
Data / Power Cable	L-016-0642
RAM Mount	H-050-0013
RAM to Vehicle Screw Pack	H-048-0001
RAM to PeopleNet Display.5 Screw Pack	H-048-0523

SYSTEM OVERVIEW

AUDIO

VIDEO

POWER

BOOT TRIGGER

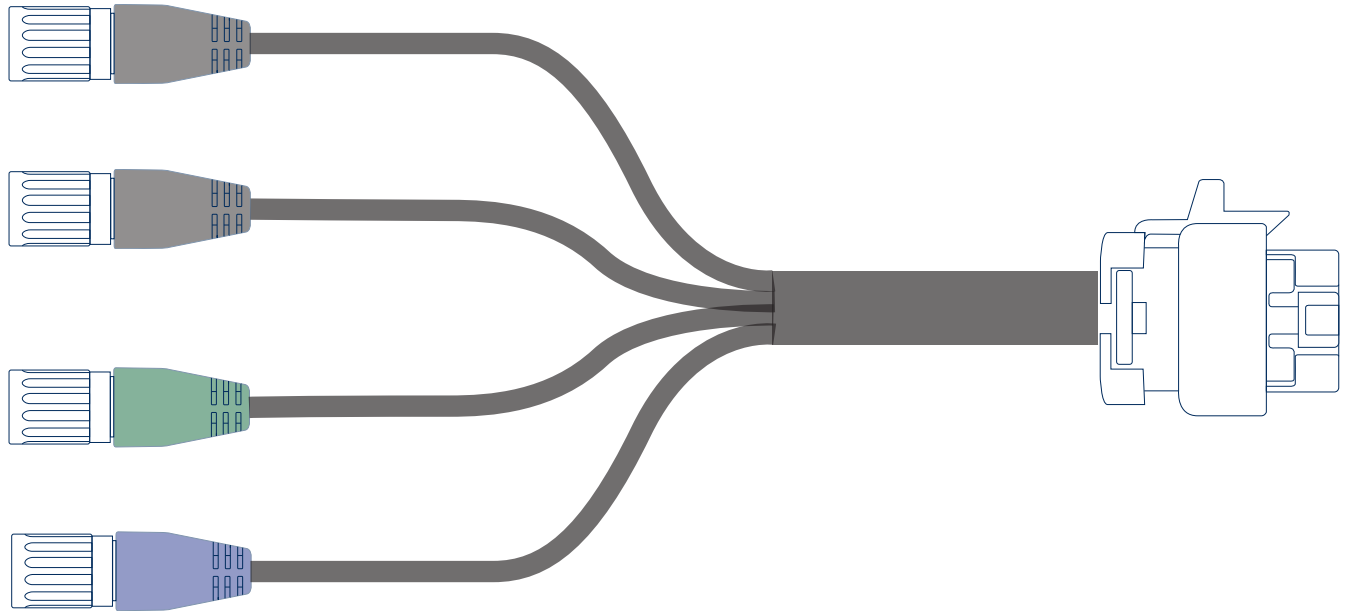INTERFACE
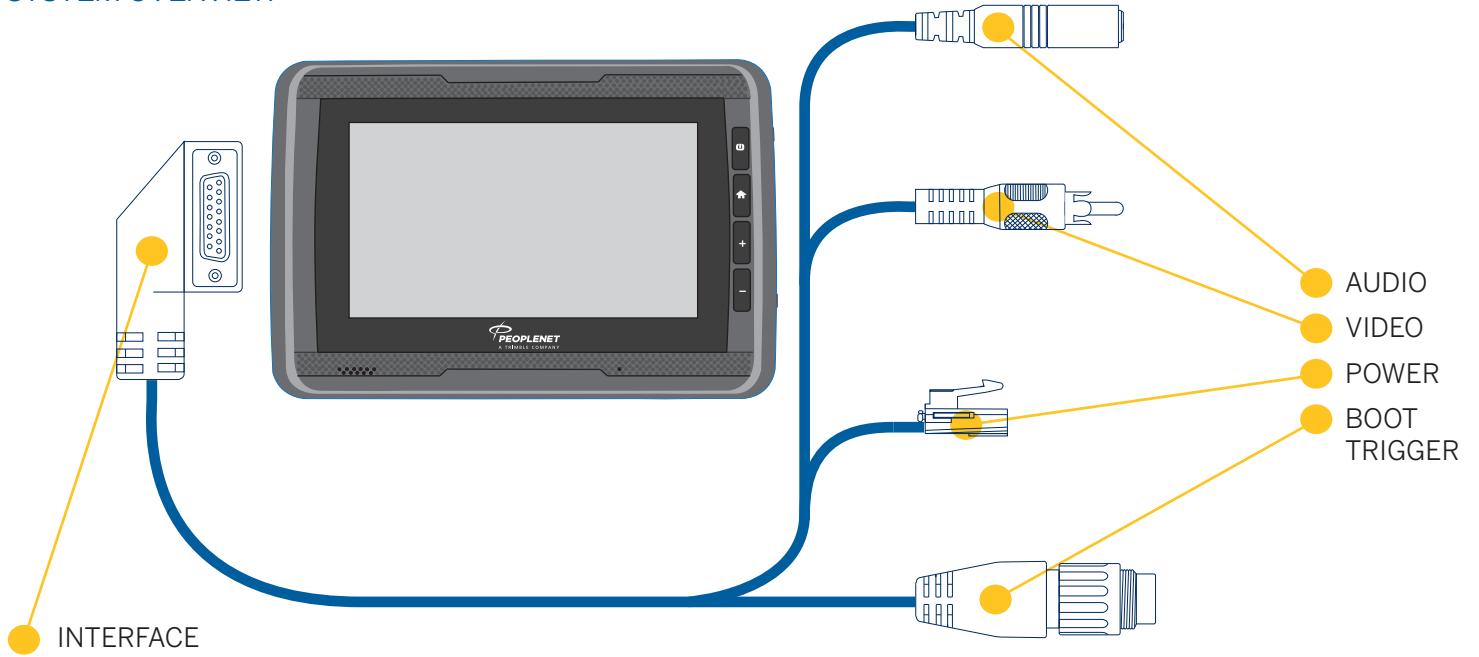
CONNECTION CABLE FOR PEOPLENET MOBILE GATEWAY

For Installations where the PeopleNet Display.5 will connect to the PeopleNet Mobile Gateway™ a connection cable (part L-016-0562) has been supplied with the kit. The current cable will need to be replaced with the new cable.

CONNECTION CABLE FOR PEOPLENET MOBILE GATEWAY

Connect the cable (part L-016-0562) to the rear of the PeopleNet Mobile Gateway. If connected properly you will hear a click sound.

Side View   Front View

PeopleNet Mobile Gateway Rear View

CONNECTION POINT
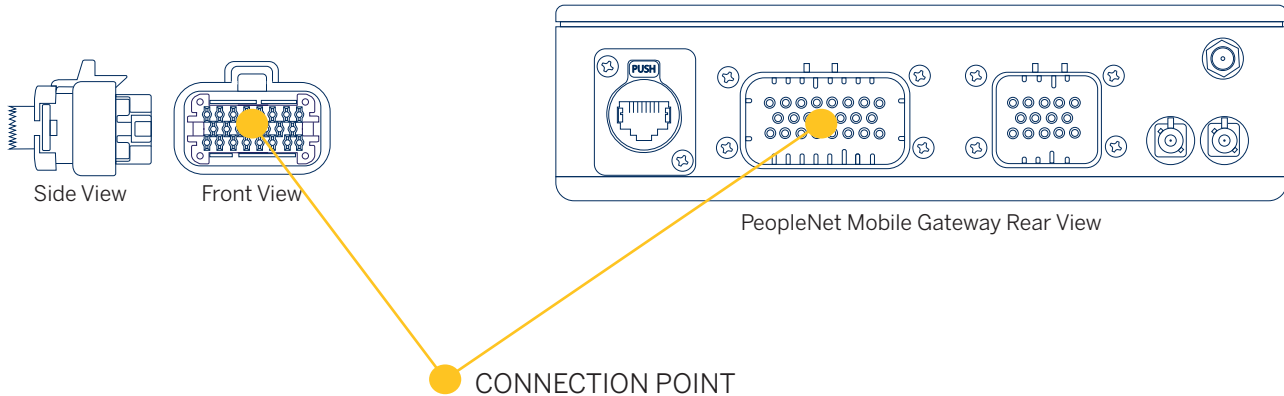
HARDWARE INSTALLATION

Trimble recommends using the RAM Mounting System
(part H-050-0013) included in your PeopleNet Display.5 Kit.

    Step 1. Verify there are no wires behind the backing surface
              that may be damaged by drilling into the surface.

    Step 2. Mark and Drill the holes for the mounting bracket
              using a 3/16" drill bit.

    Step 3. Attach the RAM Ball Joint Mount to the dash using
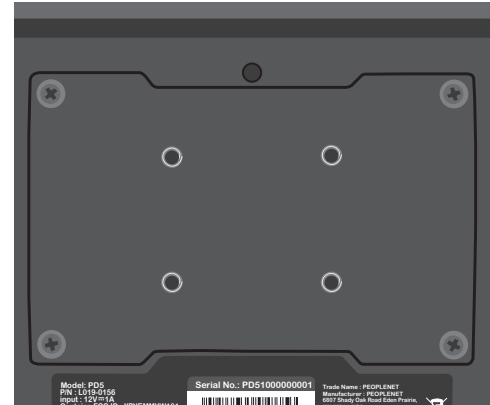   the supplied 8-32 7/16" screws (part H-048-0001).
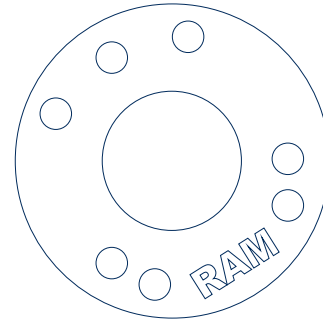
RAM MOUNT BALL JOINT

HARDWARE INSTALLATION

Step 4. Line up the RAM Ball Joint Mount to ensure that it will be attached with 4 screws to the PeopleNet Display.5. Using the supplied 8-32 stainless steel screws and tooth lock washer (part H-048-0523), attach the mounting plate.
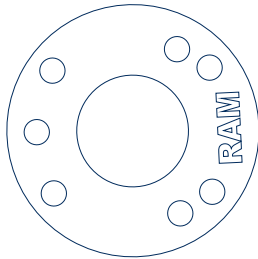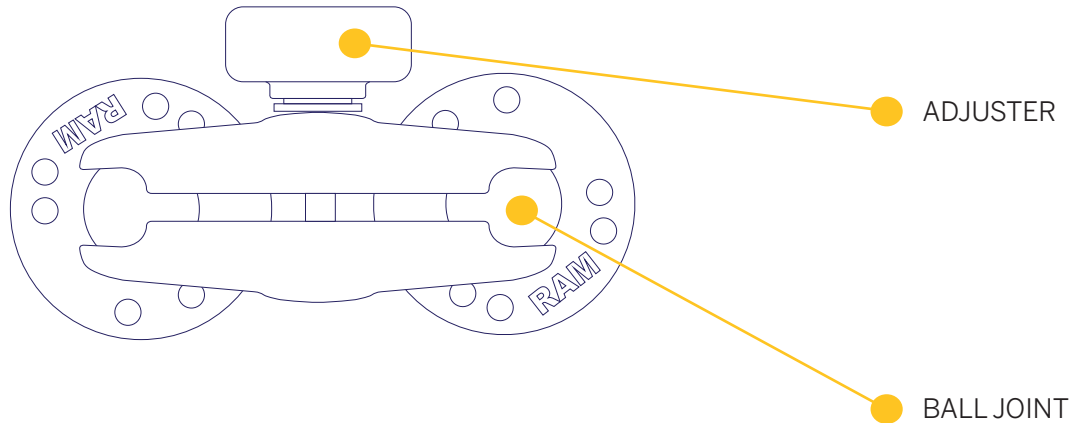

RAM MOUNT BALL JOINT

HARDWARE INSTALLATION

Step 5. Loosen the RAM mount arm. Slide the arm over the ends of the mounted ball joints. Position the device to the desired position and tighten the arm with the adjuster. To re-position, loosen the arm prior to making any adjustments and then re-tighten to lock in place.

ADJUSTER

BALL JOINT

CABLE CONNECTION

Step 6. Connect the interface cable to the back of the PeopleNet Display.5. Make sure the pins are positioned squarely and the thumb screws are evenly tightened.

TIGHTEN

Model: PD5
P/N : L019-0156
Input : 12V⎓1A
Contains FCC ID :
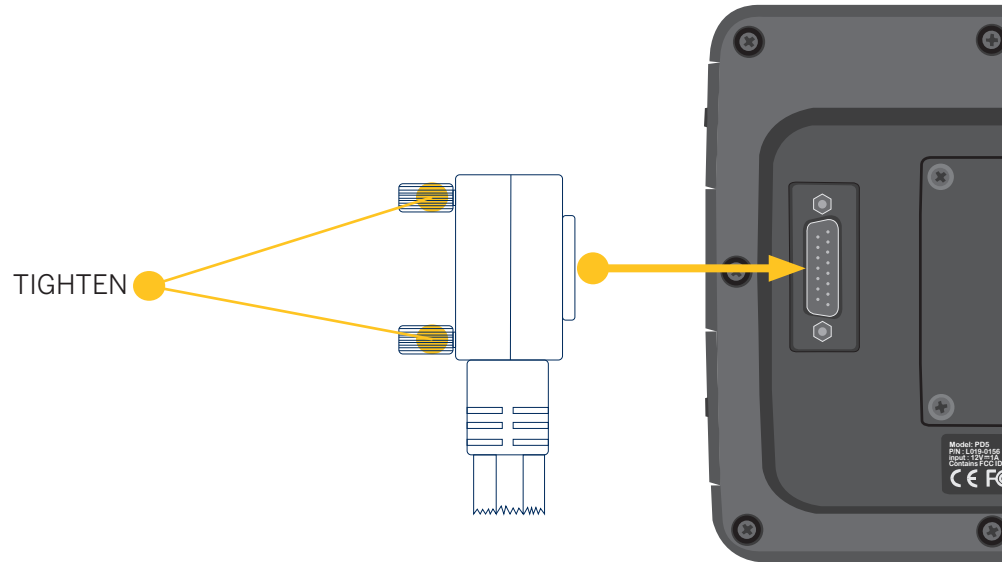
CABLE CONNECTION

Step 7. Route the cable (part L-016-0642) into the dash. Make sure the cable is not in a position where it could be worn or pinched. If the audio
and/or video cables are not used secure them in the dash.

Step 8. Holding the blue boot trigger cable (male) from the PeopleNet Display.5 to the blue boot trigger cable (female) from the vehicle gateway line up the groove inside the bottom of the connectors and push connectors together. Once pushed together rotate the sheathing clockwise to finger tighten the connectors.

BOOT TRIGGER MALE
from PeopleNet Display.5

BOOT TRIGGER FEMALE
from vehicle gateway

GROOVE
Line up corresponding grooves.
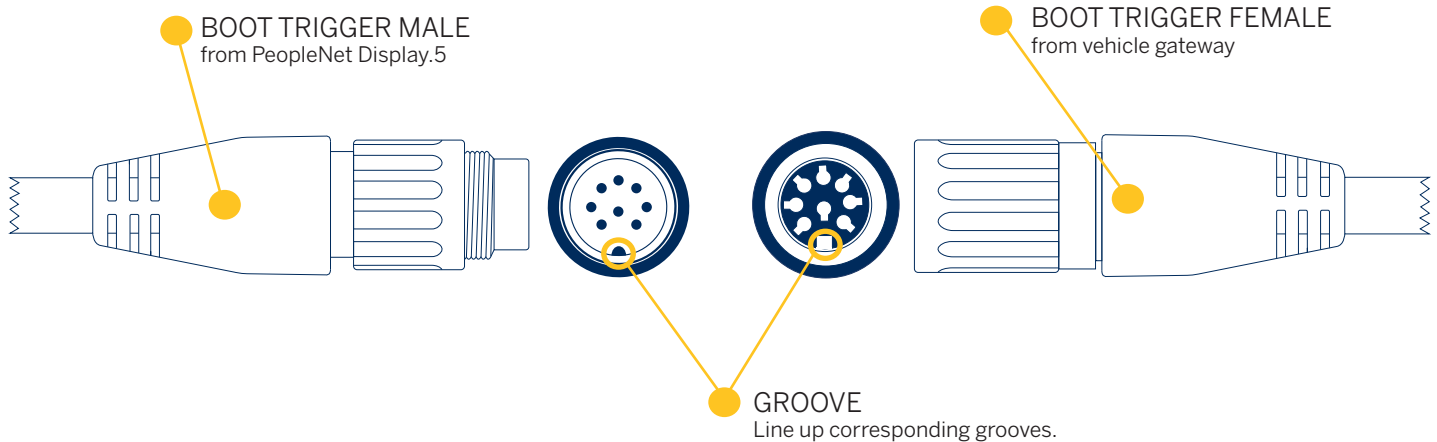
CABLE CONNECTION

Step 9. Remove the green connection lock from the two pin power connector male cable.

Step 10. Connect the two-pin power connector (male) to the corresponding power and ground connector (female) from the vehicle gateway. This connection will provide vehicle-direct power and ground for the display.

Front View

Front View

POWER CONNECTOR MALE
from PeopleNet Display.5

POWER CONNECTOR FEMALE
from vehicle gateway
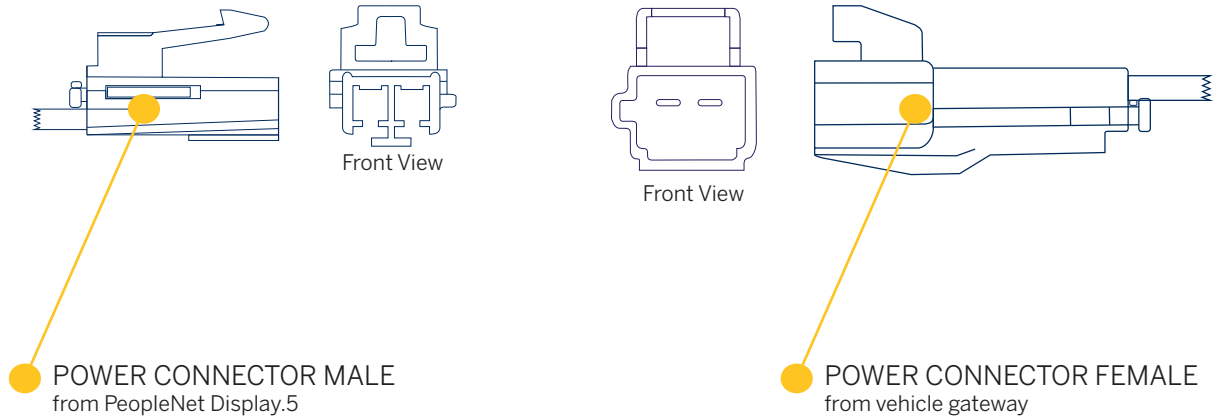
INDICATOR LIGHTS

Step 11. Turn the vehicle ignition to ON and verify the device boots up.

POWER BUTTON / CHARGING INDICATOR

Solid Blue - Powered on but not charging.
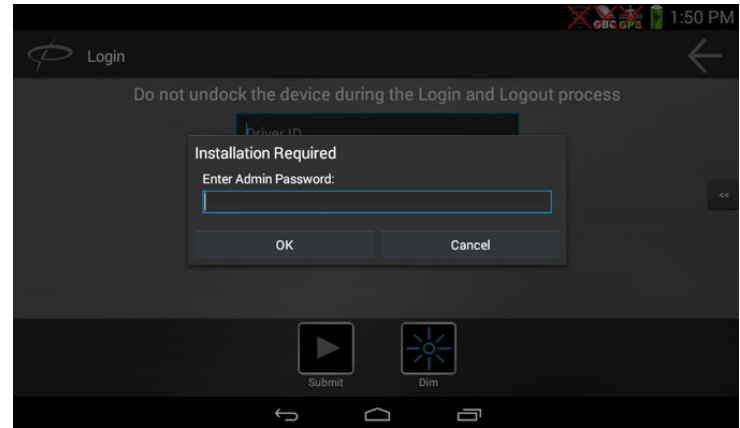
Solid Green - Device is charging.

Blinking Green - Issue with battery or imminent loss of battery power.

INITIALIZATION PROCEDURE

Step 1. When the PeopleNet Mobile Software™ runs for the first time, it will indicate that it needs an installation.

Enter **9238** for the admin password.

Tap **OK**.
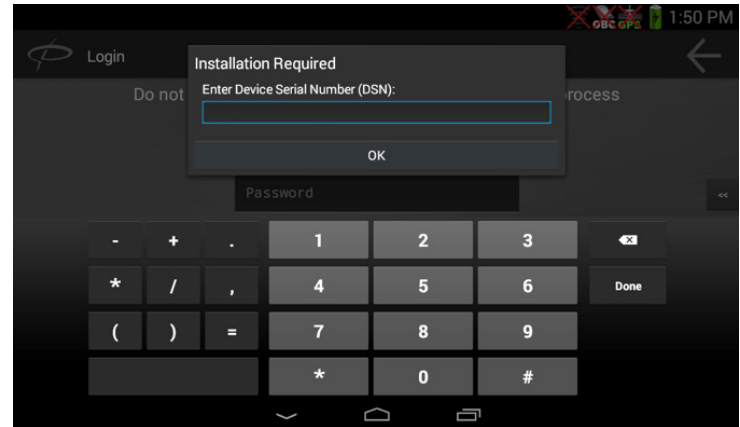
INITIALIZATION PROCEDURE

Step 2. You will be prompted to enter the device serial number (DSN) of the vehicle gateway. The device serial number is located on a sticker placed on the vehicle gateway. Note the device serial number as it will be used in multiple set up steps.

PeopleNet Connected Gateway serial number starts with a 1 and is 8 digits long. Example: 11000682

PeopleNet Connected Gateway serial number starts with a 6 or 7 and is 7 digits long. Example: 6000938

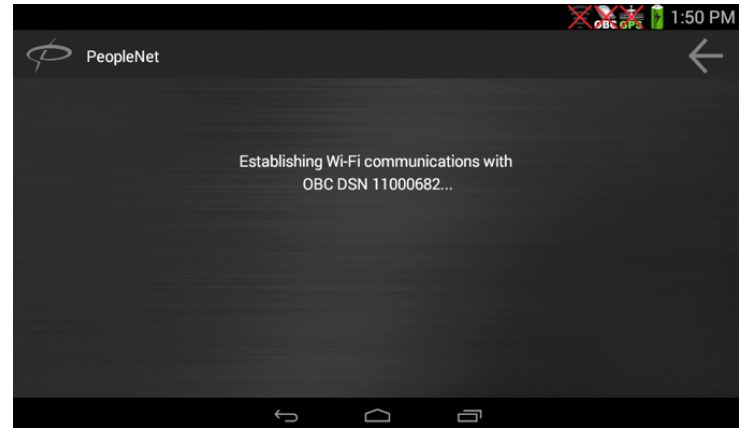Enter the device serial number of your vehicle gateway.

Tap **OK**.

INITIALIZATION PROCEDURE

Step 3. The PeopleNet Display.5 will attempt to connect to the vehicle gateway's Wi-Fi network based on the device serial number you entered in Step 2.

If the connection fails, verify the vehicle gateway is powered on and that the correct device serial number was entered.
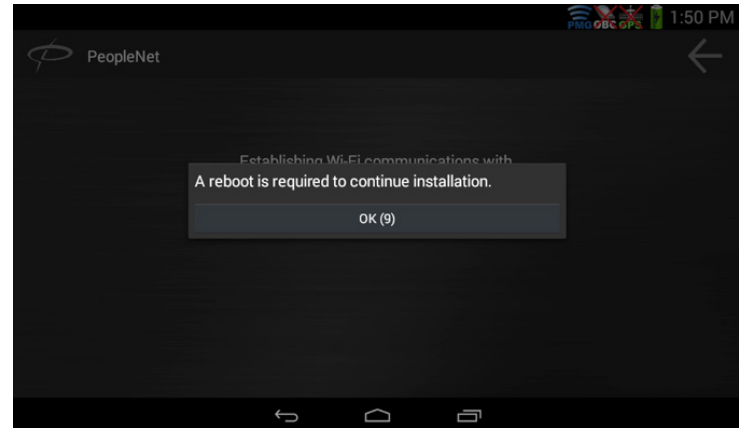
INITIALIZATION PROCEDURE

Step 4. The first time your PeopleNet Display.5 connects to the vehicle gateway, the PeopleNet Display.5 will gather necessary communication information from the vehicle gateway. The PeopleNet Display.5 will reboot once the information is received from the vehicle gateway.
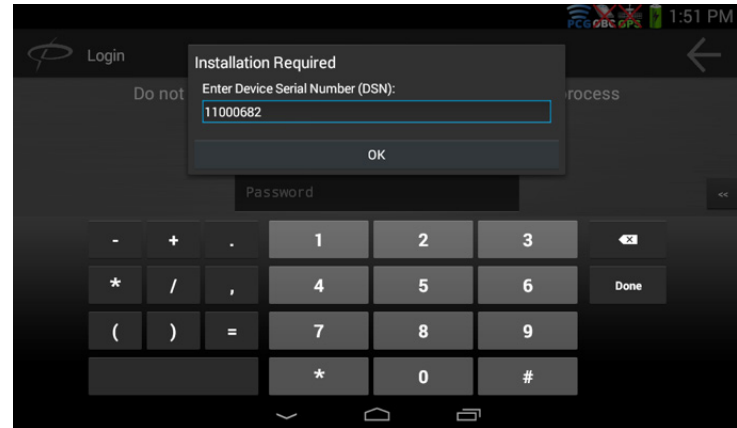
Tap **OK** or let the timer expire.

The PeopleNet Display.5 will reboot and utilize the new settings.

INITIALIZATION PROCEDURE

Step 5. Re-enter the device serial number of your vehicle gateway.

Tap **OK**.

INITIALIZATION PROCEDURE

Step 6. The PeopleNet Display.5 will attempt to connect to the Wi-Fi network of the vehicle gateway based on the device serial number you entered in Step 5.

If the connection fails, verify the vehicle gateway is powered on and that the correct device serial number was entered.
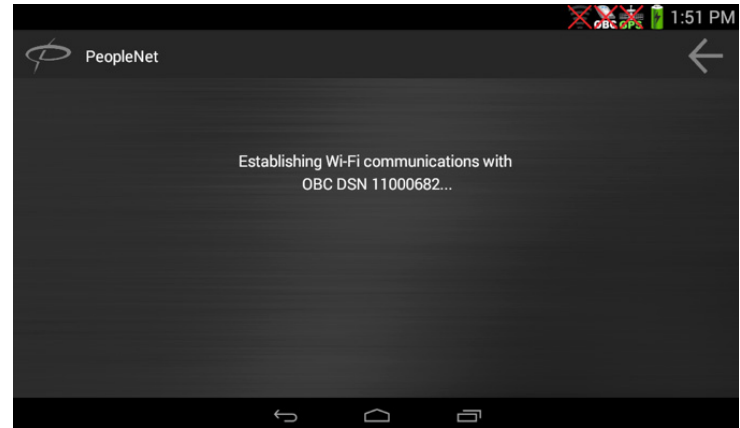
INITIALIZATION PROCEDURE - **PEOPLENET CONNECTED GATEWAY INSTALLATION ONLY**

You will need an Installer ID and Password. If you do not have an Installer ID/Password please reach out to your system administrator.

Step 7. If you are not prompted for the Installation Credentials, skip this step and proceed to Step 8.

Once the vehicle gateway's Wi-Fi network is established, you will be prompted to enter your installation credentials.

Tap the box under Installer ID, then use the on-screen keyboard to enter the Installer ID.

Tap the box under Installer Password, then use the on-screen keyboard to enter the Installer Password.

Tap **OK**.

NOTE:

If you encounter an error message, verify that the installation credentials were typed correctly.

If the installation credentials are correct, try rebooting the PeopleNet Display.5 and the PeopleNet Connected Gateway™. The most common issue is the PeopleNet Display.5 or PeopleNet Connected Gateway™ are unable to talk to the PeopleNet Fleet Manager, and rebooting will cause the PeopleNet Connected Gateway to reinitialize its modem and re-register with the cellular network.
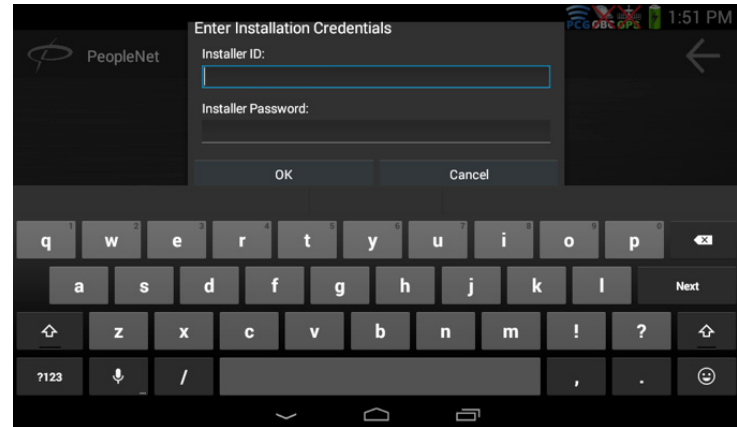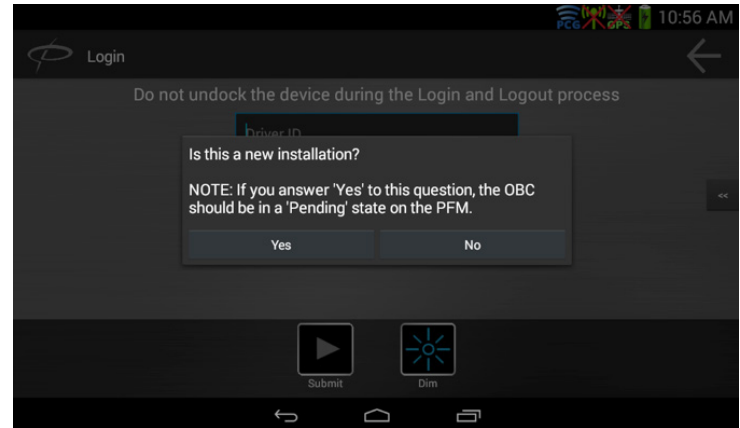
INITIALIZATION PROCEDURE

Step 8. Select the type of installation you are performing.

YES - The vehicle gateway has not been installed in a vehicle before. The vehicle gateway will display **Pending** in the PeopleNet Fleet Manager.

NO- This is an existing installation where the vehicle gateway has been previously paired with a display.
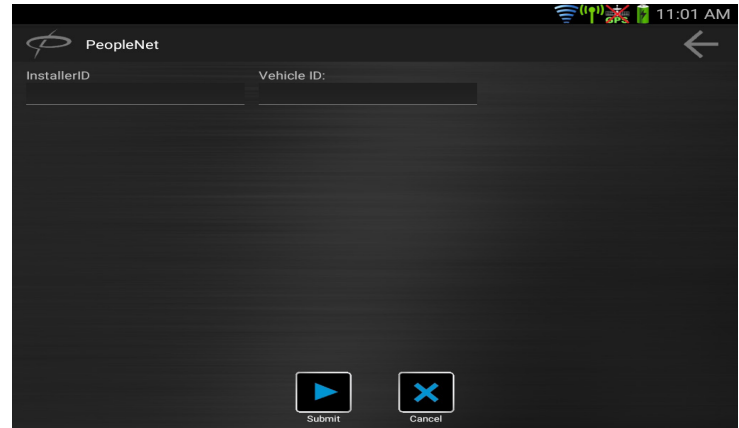
INITIALIZATION PROCEDURE

Step 9. If **YES** was selected.

Type your Installer ID.

This Installer ID will not be the same as the installation credentials, and only digits are allowed in this field. If you do not have an Installer ID, type a number that will differentiate you from other installers in your fleet (the Installer ID used at this screen is recorded in the PeopleNet Fleet Manager; it has no impact on your ability to complete an install).

Type the Vehicle ID that will be used as a unique identifier in the PeopleNet Fleet Manager.

Tap **Submit**.

INITIALIZATION PROCEDURE

Step 9. If **NO** was selected.

Type your Installer ID.

This Installer ID will not be the same as the installation credentials, and only digits are allowed in this field. If you do not have an Installer ID, type a number that will differentiate you from other installers in your fleet (the Installer ID used at this screen is recorded in the PeopleNet Fleet Manager; it has no impact on your ability to complete an install).

Type the Vehicle ID that will be used as a unique identifier in the PeopleNet Fleet Manager.

If you are changing the vehicle gateway in this vehicle, type the old device serial number (DSN).

Tap **Submit**.

NOTE:

If this is a display swap or moving a full kit from one vehicle to another, leave the Old DSN field blank.
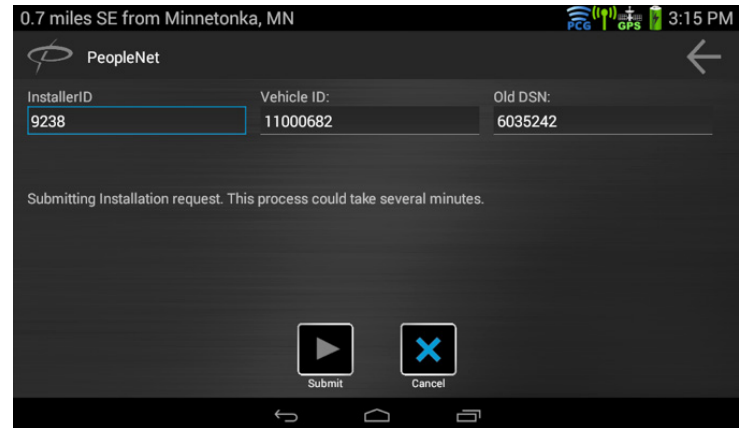
INITIALIZATION PROCEDURE

Step 10. After tapping **Submit**, the message "**Submitting Installation request**. **This process could take several minutes"** will appear under the Installer ID field.

The Submit button will be grayed out.

INITIALIZATION PROCEDURE

Step 11. When the PeopleNet Display.5 has completed the data call to the PeopleNet Fleet Manager, the PeopleNet Display.5 will show "**Installing Data Store, Activation nearly complete"**.

> **NOTE:**
> If the PeopleNet Display.5 remains at "Submitting Install Request" for longer than 5 minutes, reboot the PeopleNet Display.5 and the vehicle gateway.

ERROR CODE POSSIBILITIES

Yes, this is a new installation was selected - verify that the vehicle ID you're trying to use is not already in use, and you should have selected "no, this is not a new installation".

No, this is not a new installation - verify that the vehicle number used does already exist, and the correct device serial number was entered into the Old DSN field.

INITIALIZATION PROCEDURE

Step 12. **Activating Device** will be displayed when the information has been entered correctly and settings are being downloaded from the PeopleNet Fleet Manager.

When all the settings have been downloaded from the PeopleNet Fleet Manager, the words **Activating** will change to **Activated** on the device.

PeopleNet Mobile software will then reboot and the Driver Login screen wil load.

The Initialization Procedure is complete.

TEST INITIALIZATION - PEOPLENET MOBILE GATEWAY

Once the PeopleNet Display.5 and the PeopleNet Mobile Gateway are paired, a full test is recommended. Follow the steps below to confirm functionality. You will need a Driver ID and Password. Contact your system administrator if you need a test ID.

Login to the device.

Go to **System** > **OBC Diagnostic** > **Diagnostic Basic**.

> Verify the following information:
>
> GPS = **3D**
>
> Cell Strength is **>2**

Go to **System** > **OBC Diagnostic** > **Diagnostic Device**.

> Verify the following information:
>
> Ignition displays **ON** when the vehicle key is on and displays **OFF** when the key is off and OFF in accessory.

With the vehicle ignition key ON, go to **System** > **OBC Diagnostic** > **Diagnostic PerformX**.

> Verify the following information:
>
> **RPM** matches engine tachometer on the dash panel.
>
> Odometer Type: **ECM** and **Odo**: matches dash.
>
> FUEL TYPE = **ECM** and FUEL: **>0 gallons.**

Confirm the Display Power button LED is green, indicating charging.

> Disconnect the PeopleNet Display.5 from the cable and verify the LED turns to Blue and the display remains powered on.
>
> **NOTE:** A fully charged battery will supply power for roughly 15 minutes, though a new unit may not have a full charge.

Any accessories (Satellite, OBDii, GPIO, PTO) activated and confirmed. See accessory guide for details.

TEST INITIALIZATION - PEOPLENET CONNECTED GATEWAY

Once the PeopleNet Display.5 and the PeopleNet Connected Gateway are paired, a full test is recommended. Follow the steps below to confirm functionality. You will need a Driver ID and Password. Contact your system administrator if you need a test ID.

Login to the device.

Go to **System** > **OBC Diagnostic**.

Verify the following information:

DSN = "Matches your PeopleNet Connected Gateway"

GPS Quality = **Good**

With the vehicle ignition key ON, go to **System** > **Vehicle Information** .

Verify the following information:
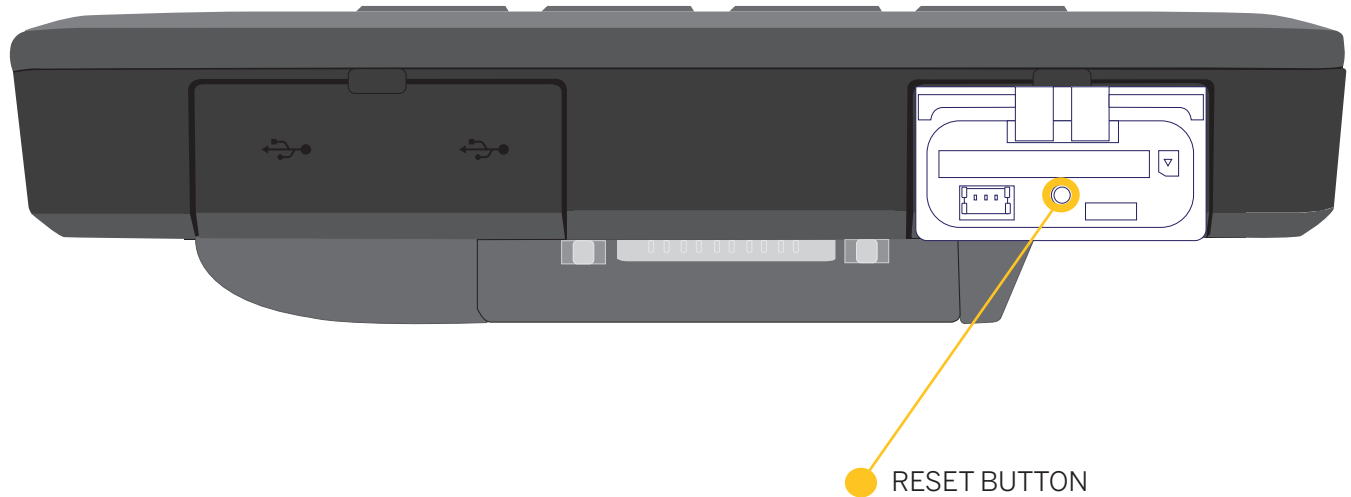
RPM matches engine tachometer on the dash panel.

Odometer matches dash.

Engine Fuel: **>0 gallons.**

TROUBLESHOOTING

HARD RESET BUTTON

A hard reboot button is available under the top access panel on the PeopleNet Displays.5's right side. Open the top access panel. Hold in the button to reboot the device if needed.
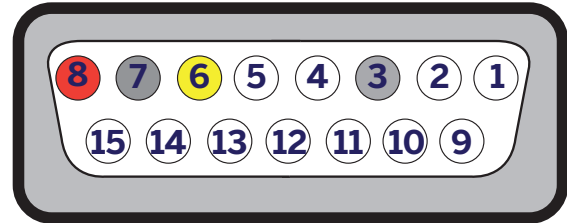
RESET BUTTON

TROUBLESHOOTING

CABLE PIN OUT

This cable pin-out can aid in troubleshooting if the display fails to boot

PeopleNet Display.5 Cable L-016-0642 Mating Connector View

PIN	DESCRIPTION
8	Vehicle 11-24 volt constant power
7	Vehicle ground
6	Vehicle gateway 12 volt ignition power
3	Vehicle gateway ground

TRANSFORMING THE WAY THE WORLD WORKS