



## 2018 Proterra Electric Bus Installation Guide

This guide will show the proper way to install a Dual-Vision XC4 Camera in a 2018 Proterra Electric Bus. Please review the Installation Guidelines for grounding and making connections prior to installing. In this guide you will find dash removal, wire locations, & mounting locations.

Verify no vehicle service lights are on prior to installation. Contact a Fleet Manager immediately if the vehicle has any damage

After testing and verifying power wires, disconnect the negative battery terminal to prevent any accidental shorts or blown fuses

UPDATED October 15<sup>th</sup>, 2018

\*\*\*NEW PART\*\*\*

\*\*\*Harness DV457 is needed if trigger wires are being connected\*\*\*

For Technical Support please contact our support team at:

[Techsupport@Roscovision.com](mailto:Techsupport@Roscovision.com)



Gray – Caution

Red – Warning

Blue – Extra Installation Parts Needed

Purple – New Installation



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Before starting your install, its best to prep the windshield for recorder mounting  
Giving the VHB tape time to cure before mounting the Recorder will give you a permanent bond and prevent recorders from falling.

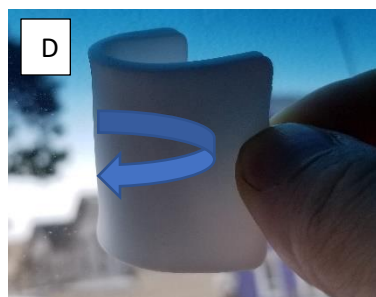


- A- Squeeze to release primer and apply to the windshield
- B- Apply Primer to the bracket
- C- Wait for the primer to dry leaving a dull haze on the windshield

**IMPORTANT:** VHB Tape should only be applied when windshield temperature is within 50°F-100°F (10°C-38°C) to allow proper curing of mounting adhesive pads.

Run the defrost on high heat or use a heat gun in colder temperatures

After windshield is the correct temperature apply the VHB tape marked **PERMANENT** by rolling the tape on the windshield (D)



Using your thumb push firmly around all edges of the VHB tape

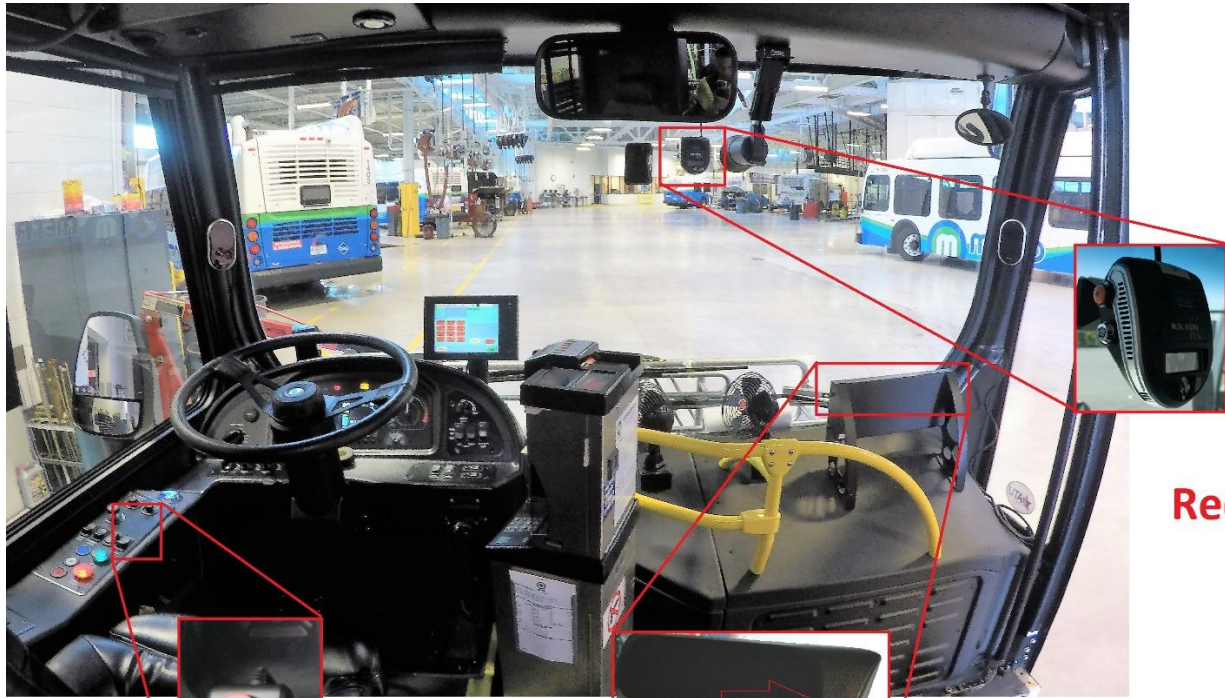
Proceed to the next page for Step 1 of the installation





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## Installation Layout



**Recorder**

**Driver Event  
Button**

**Antenna**

**Before starting your installation please take note of component mounting locations**





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## Installation Layout

### Component Mounting & Power Locations



**24 Volt Power Connections**



**Constant  
Ignition**



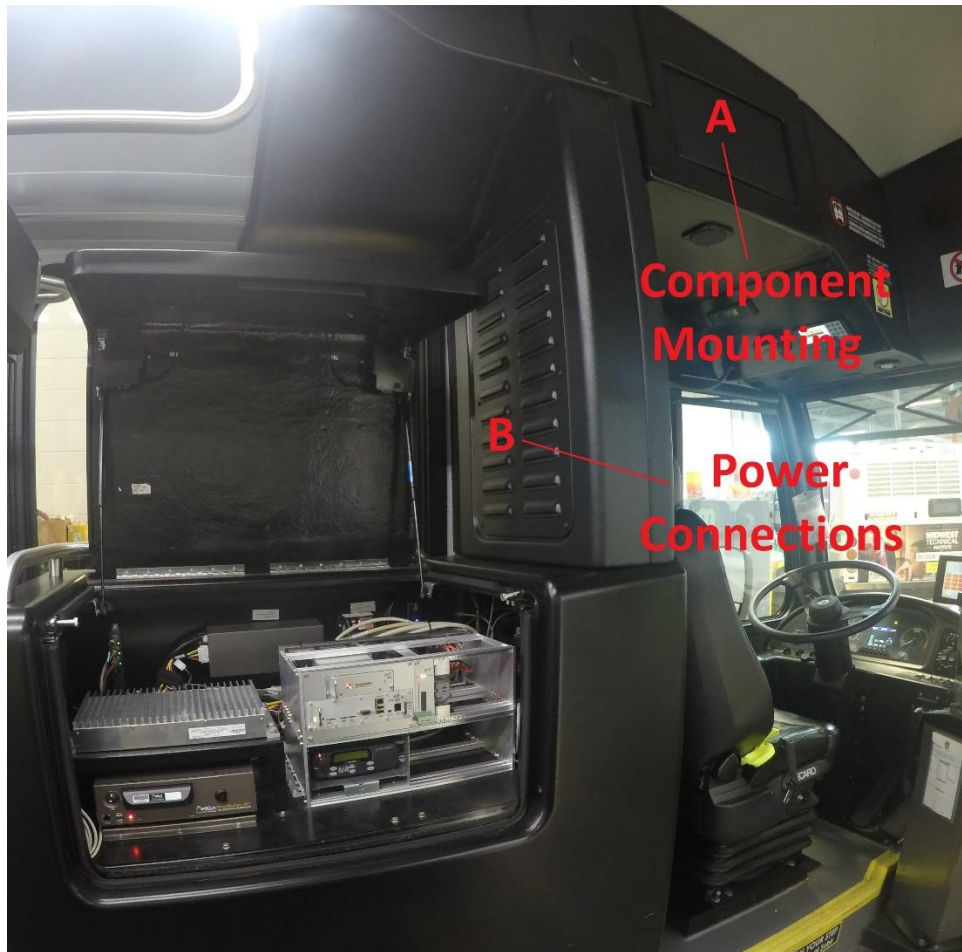




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### Step 1 - Panel Removal:

- Remove the 10 T-20 screws securing the two access panels behind the driver.
  - 4 screws on the electronic junction box (Panel A above the driver)
  - 6 screws on the Power junction box (Panel B behind the driver)

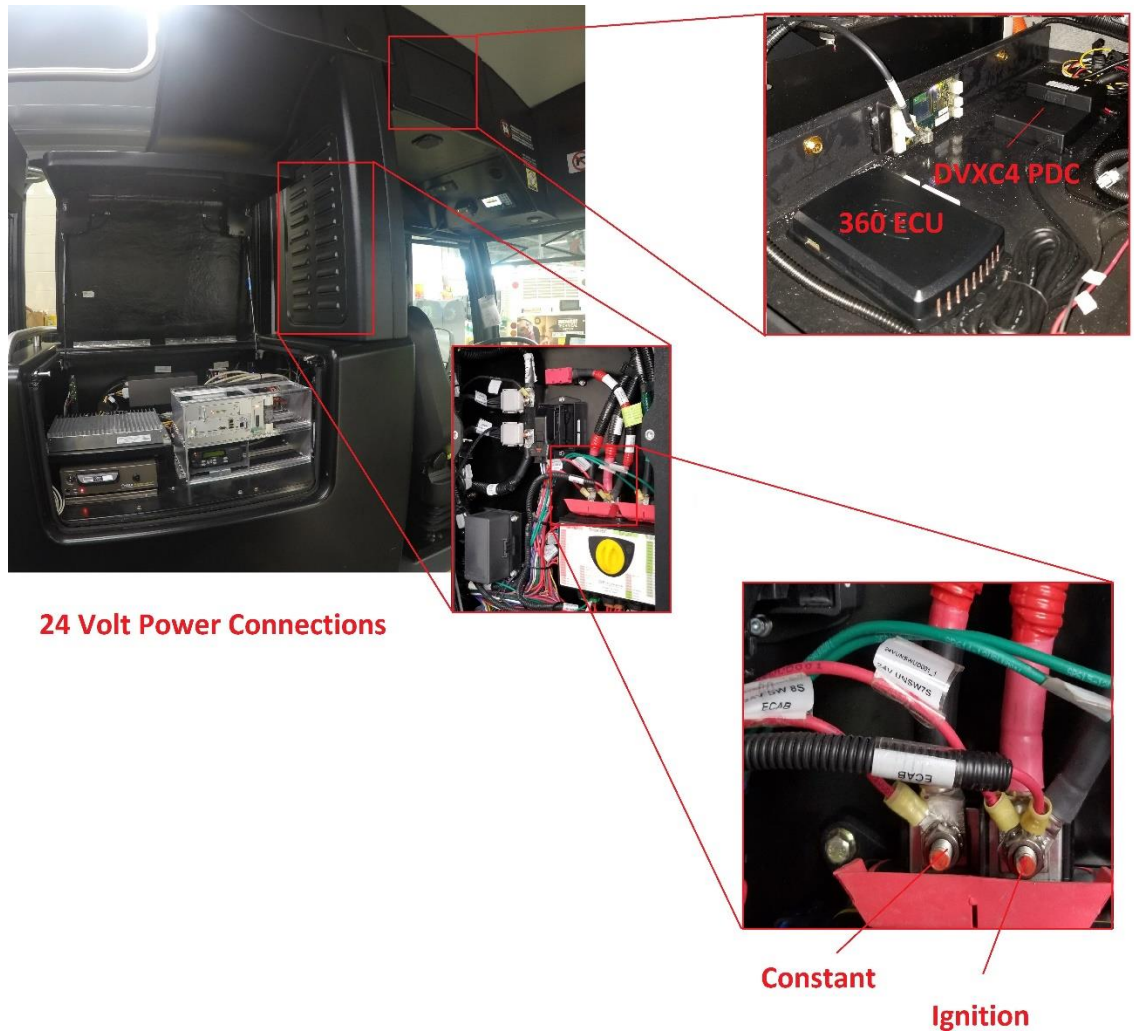




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### Step 2- Power Connections:

- Using ring terminals, Connect the RED Constant wire to the vehicles LEFT terminal as shown in the photo below
- Connect the YELLOW ignition wire to the vehicles right terminal



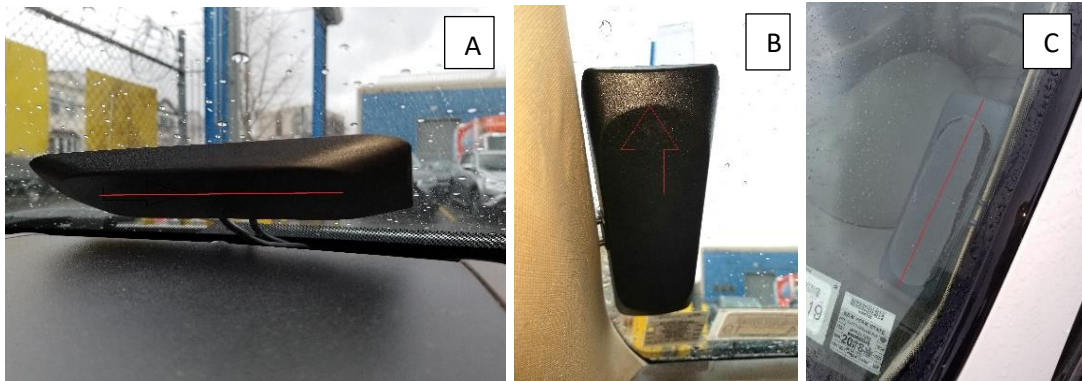


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### Step 3 - Antenna Mounting:

The Manufacture recommends mounting the antenna on the windshield

Mount the antenna on the same side of the vehicle as the PDC



Notice the angled part of the antenna is on the **inside** of the vehicle (Photo A & B). Make sure the **FLAT SIDE** of the antenna has a **CLEAR VIEW OF THE SKY** and is facing **OUTSIDE** (Photo C)



After all connections are made, coil up all the extra antenna cable (Photo A)

Never bend the cable. This will cause signal loss and damage to the antenna (Photo B)

Please refer to the Antenna Installation Guideline for complete details



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### Step 4 - PDC & Modem Connections:

- Connect the USB cable from the modem to the PDC and secure with a zip tie (Photo A)
- Connect the Antenna cable to the modem (Photo B)
- Make these connections prior to mounting the modem & PDC
- Make sure the screw on the modem cover is secured and doesn't move or bend (Photo C)



Connect the MIMO 1 antenna wire to the Modems PRI connector



Connect the MIMO 2 antenna wire to the Modems DIV connector



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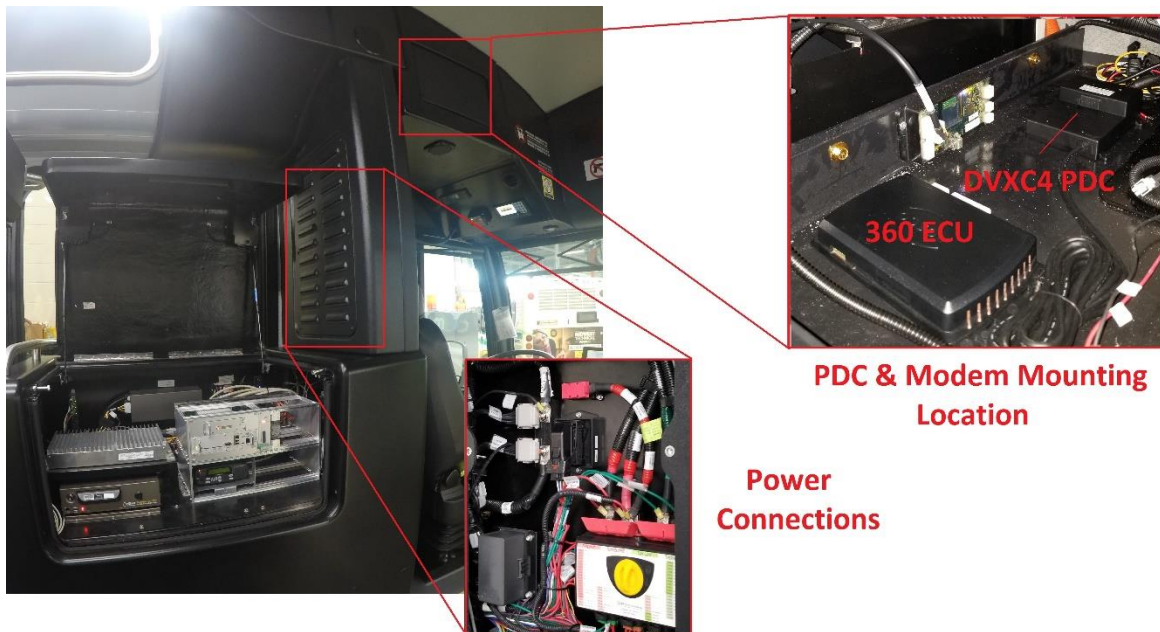




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### Step 5 - PDC & Modem Mounting:

- The PDC & Modem are mounted in the electrical storage compartment located above the driver.
- If a 360 unit is not installed mount the modem in place of the 360 ECU



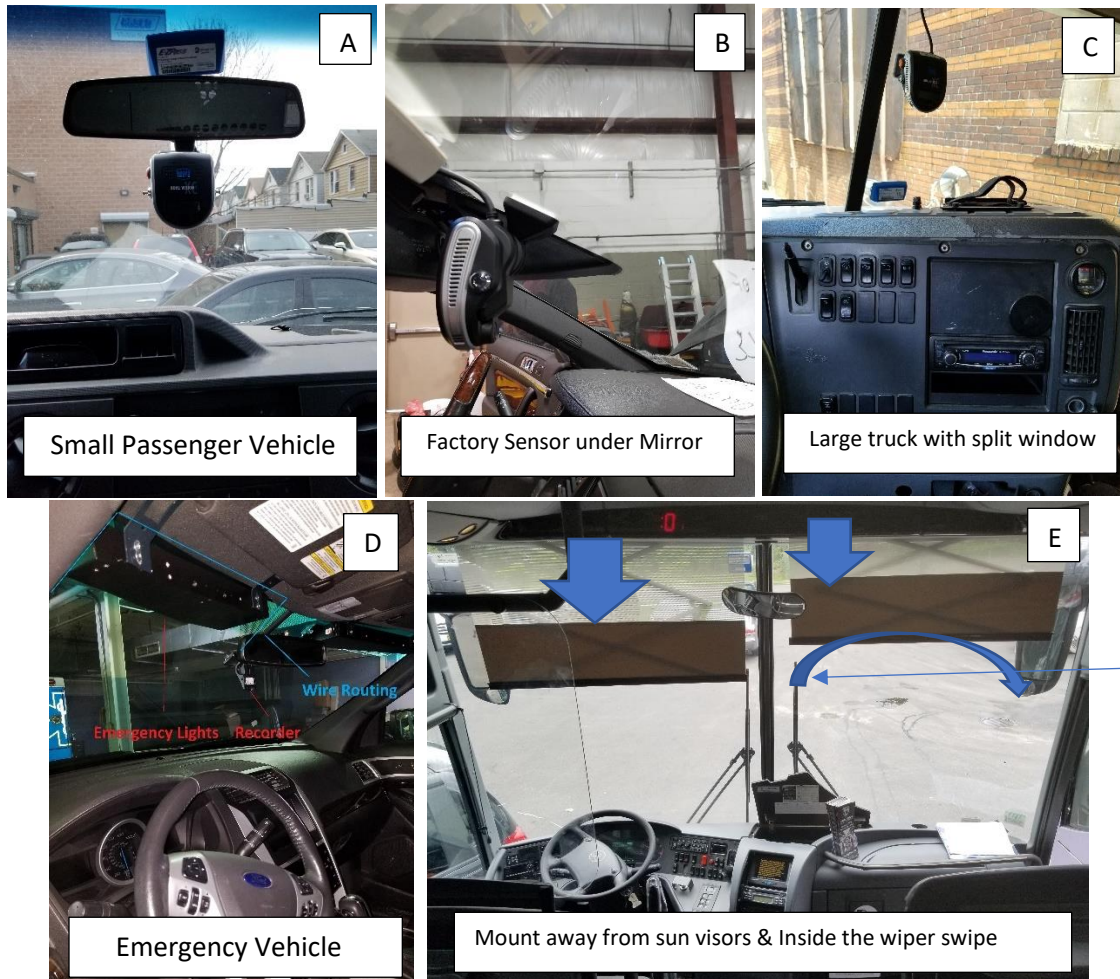
**PLEASE READ THE RECORDER MOUNTING & VHB TAPE INSTALLATION GUIDELINE BEFORE  
PROCEEDING TO THE NEXT STEP**





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### Step 6 - Camera Mounting and wire Routing:



For small passenger vehicles, mount the Recorder under the rear-view mirror (Photo A).

If the vehicle has any factory sensors under the rear-view mirror, mount the Recorder to the right of the mirror, not causing a distraction to the driver (Photo B).

For larger trucks or busses (With split windows), mount the Recorder on the right panel (Photo C) and **INSIDE** the wiper swipe. Keeping the Recorder **INSIDE** the swipe will ensure rain or snow will not interfere with the video.

When working on emergency vehicles use extreme caution when routing wires around emergency lights and equipment (Photo D)

Always pull down the vehicles sun visors to make sure they don't block or interfere with the Recorder or the video (Photo E). Notice the swipe of the wiper blades. For vehicles like this, mount the Recorder under the visor, inside the swipe.



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To verify proper angle & correct mounting, press the driver activity button. Logon to your Rosco account and view activity to confirm proper angle

The screenshot shows a web browser window with the URL [www.roscolive.com/Administration/Fleets/EditFleet.aspx?f=211](https://www.roscolive.com/Administration/Fleets/EditFleet.aspx?f=211). The main content area displays a live video feed of a bus in a garage. The video feed includes a timestamp '2018/05/10 07:57:22', channel information 'CH1 Q1 4FPS ROSCO', and an RSSI signal strength indicator 'RSSI: -55'. Below the video feed are four numbered buttons (1, 2, 3, 4) and a search bar with 'Search' and 'Clear Search' buttons. To the right of the video feed is a table with two columns: 'Status' and 'Live Video'. The table contains ten rows of data, each with a status (Offline or Online) and a 'Launch' button. Below the table is a checkbox labeled 'Limit Allowed Assets' which is checked, and a text input field for 'Allowed Assets' with the value '70'.

Status	Live Video
Offline	Launch
Offline	Launch
Offline	Launch
Online	Launch
Online	Launch
Offline	Launch
Offline	Launch
Offline	Launch
Offline	Launch
Offline	Launch

