



2017-2018 Freightliner Cascadia Installation Guide

This guide will show the proper way to install a Dual-Vision XC4 Camera in a 2017-2018 Freightliner Cascadia. 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

You will need about 3 feet of 18-gauge wire to extend the ignition wire from the center console to the fuse box

UPDATED October 15th, 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



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.

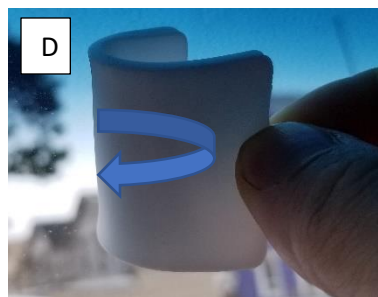


- A- Squeeze to release primer and apply to the windshield
- B- Apply Primer to the bracket
- C- Wait for the primer to dry leaving a dull haze on the windshield

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

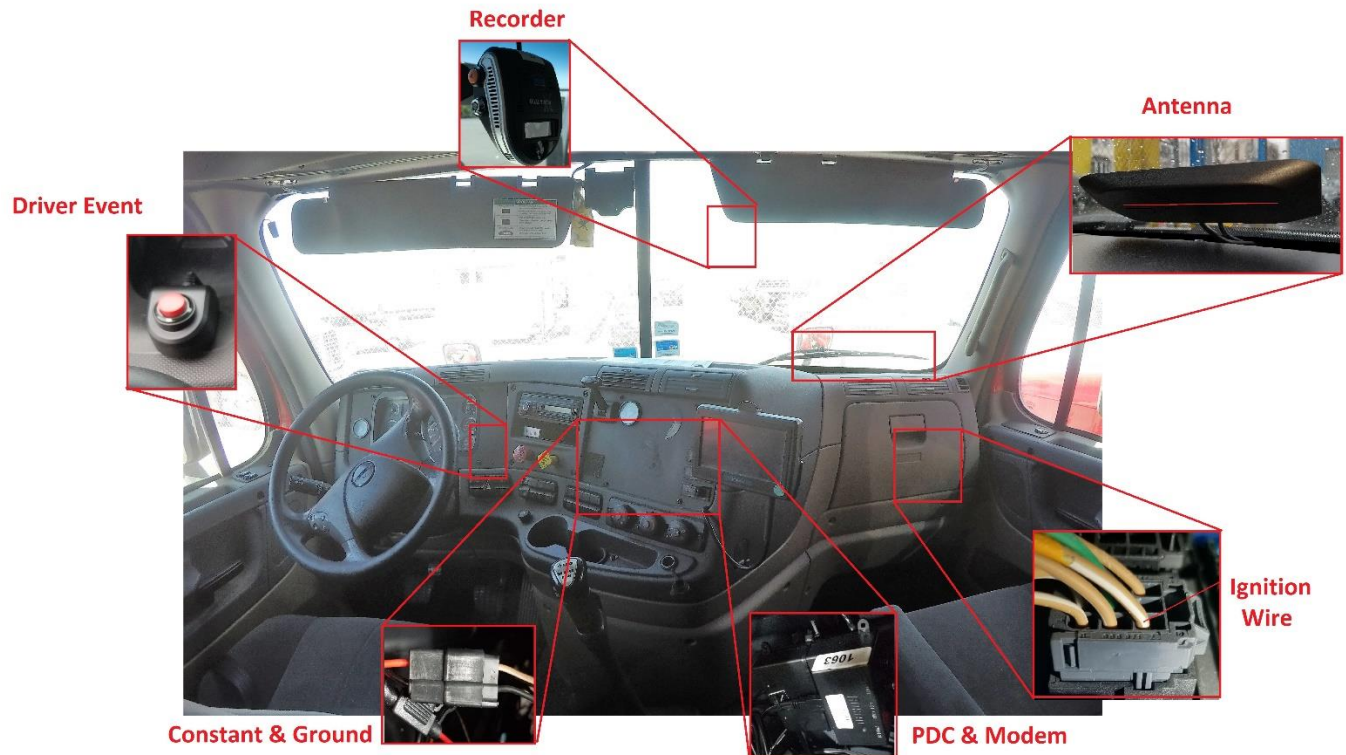
Proceed to the next page for Step 1 of the installation





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Installation Layout



Before starting your installation, please take note of component mounting locations.





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Step 1 - Dash Removal:

- Open the glove box (Photo A) on the passenger side of the dash and remove the 4 T-20 screws inside (Photo B)
- The PDC & Modem are located behind the center console panel along with Constant & Ground connections (Photo C)

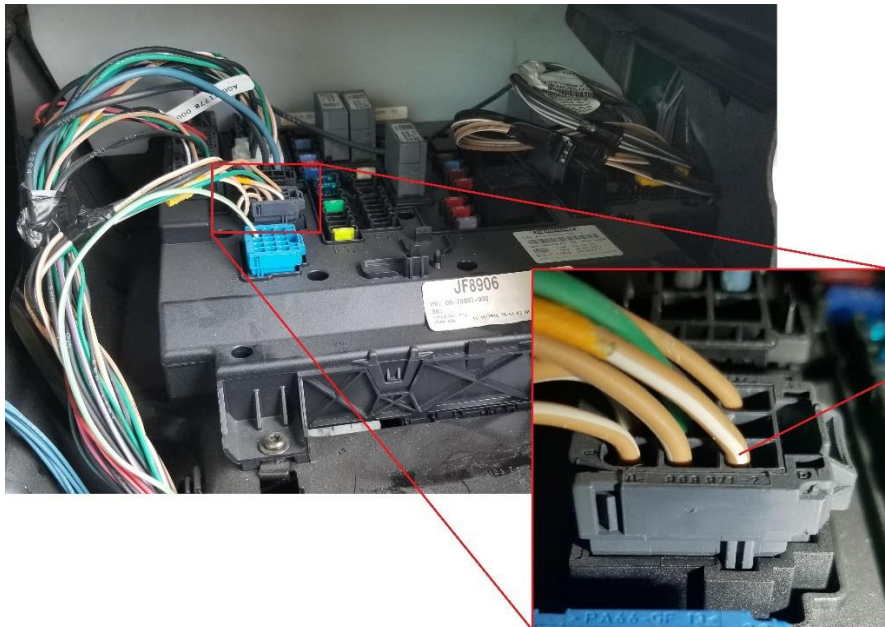




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Step 2 - Power Connections:

- Remove the fuse cover behind the glove box (Photo A)
- Extend the YELLOW ignition wire from the PDC and connect to the vehicles Tan/White wire. This wire is located in the 9 pin Gray plug located on the fuse box (Photo B)
- This wire is the drivers side power window circuit. The fuse for this circuit is fuse F40 (15 Amp)



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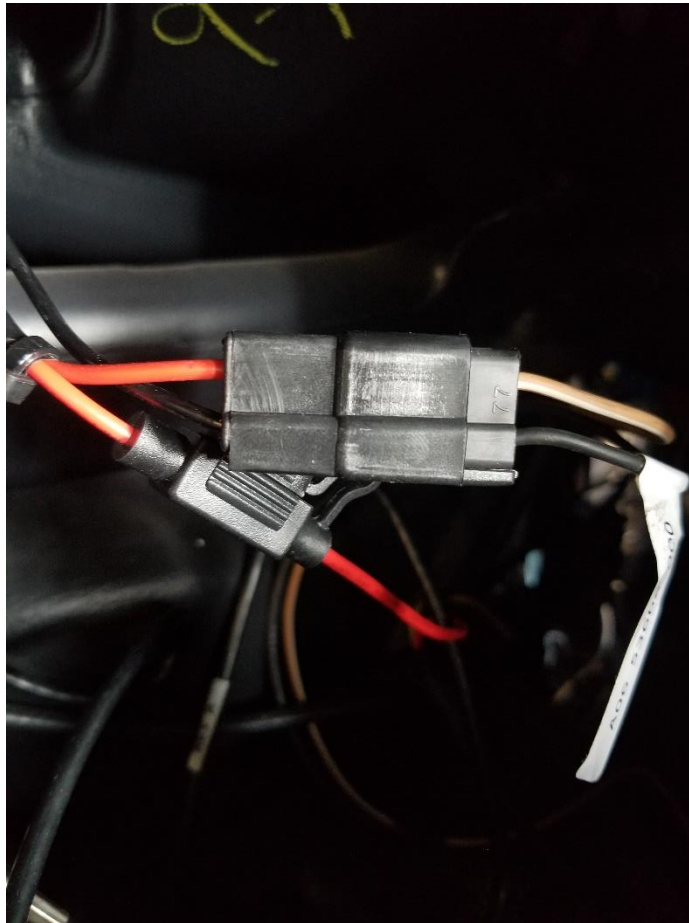
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Power Connections Continued:

- The Constant & ground connection is located behind the center console at the CB radio power harness
- Connect the RED Constnt wire to the vehicles RED wire
- Connect the BLACK ground wire to the vehicles BLACK Wire





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Step 3 - PDC Mounting & Wire Routing:

- The PDC & Modem are attached to the air vent behind the center console
- Using zip ties, attached the PDC & Modem to the vent

Wire Routing

Photo Below

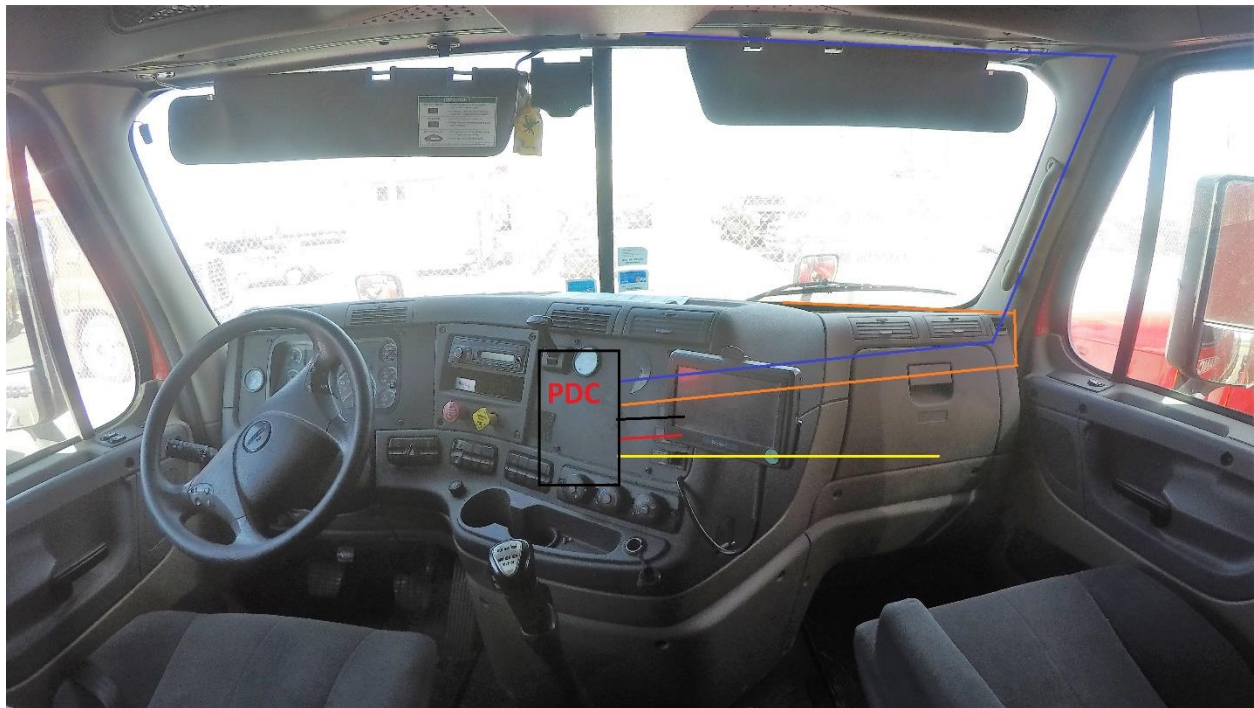
Black – Ground

Red – Constant 12 V

Yellow – Ignition

Blue – Recorder

Orange - Antenna



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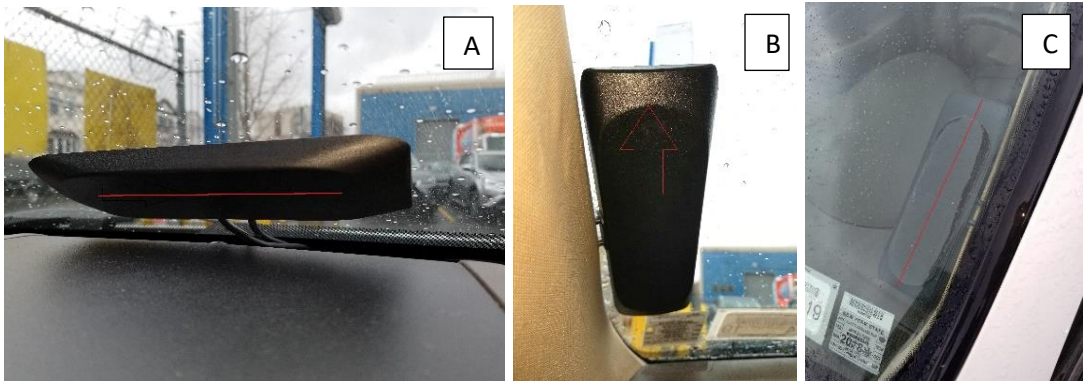


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Step 3 - Antenna Mounting:

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 5 - PDC & Modem Connections:

If you're using the sensor wires to trigger an event, please review the DV440-Q Installation Guideline (INS403) for complete details

- 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

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



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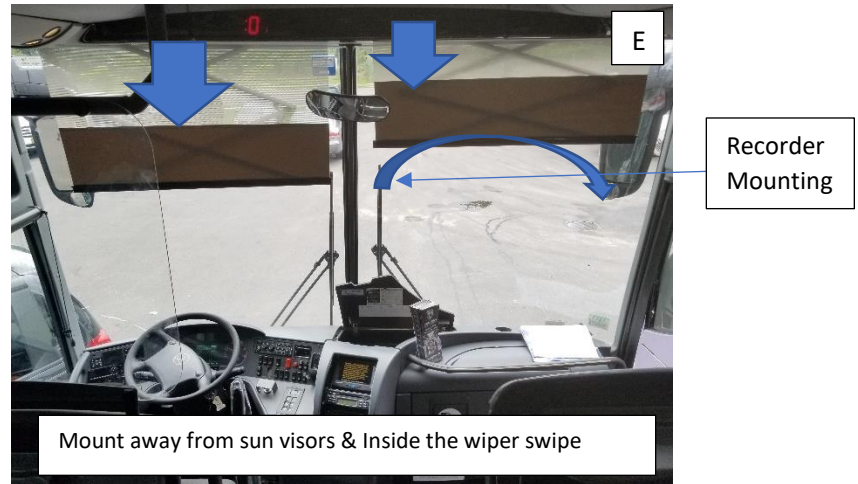
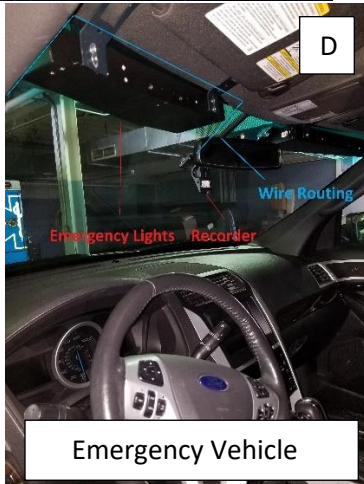
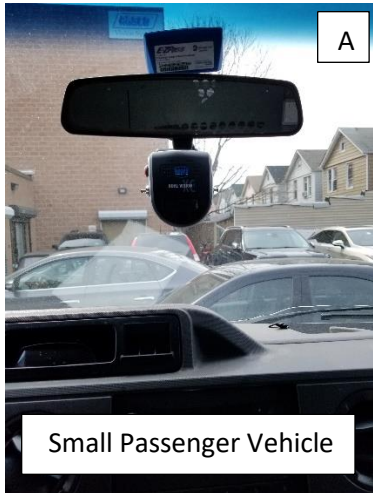
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Step 6 - Camera Mounting and wire Routing:



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 displays the RoscoLive web application interface. On the left is a dark blue sidebar with navigation options: GPS TRACKING & LIVE STREAMING, EVENT CLIPS & CLOUD STORAGE, REPORTS, and FLEET ADMINISTRATION. The main content area features the Rosco Vision logo and a 'RoscoLive' header. A central window titled 'U150 - Live - Microsoft Edge' shows a live video feed of a white Freightliner Cascadia truck. The video feed includes a timestamp '2018/08/30 08:49:27', camera information 'CH1 Q1 4FPS ROSCO', and a speed reading 'RSSI: -82'. The video is overlaid on a map showing the truck's location near 'Vias Reynosa' and 'Av. Puente Priar'.



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