



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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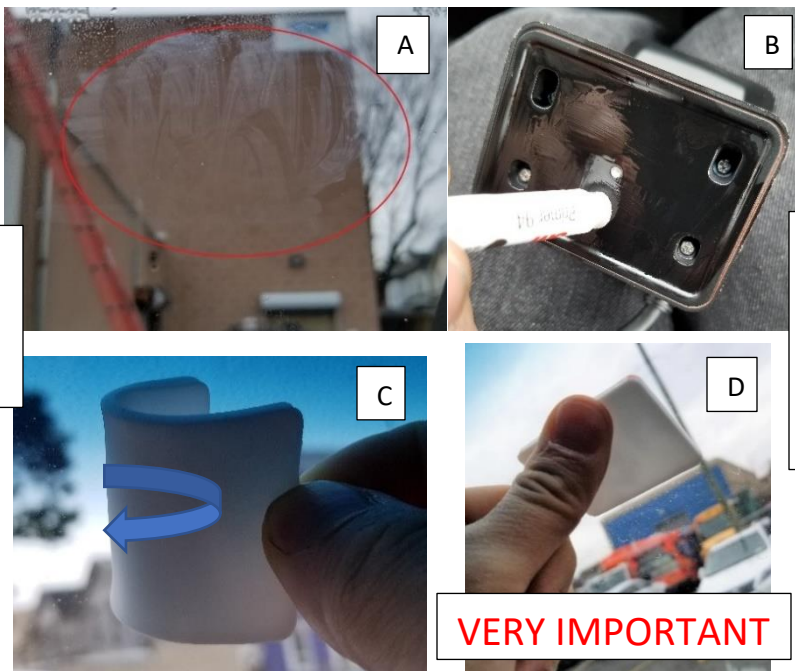
IMPORTANT: Windshield Mounting should only be performed when windshield temperature is within 50°F-100°F (10°C-38°C) to allow proper curing of adhesive.

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

This assumes you have already performed one temporary install to determine proper Recorder location

Before starting your install, Clean the windshield with 70% Isopropyl Alcohol & allow time to dry

Giving the VHB tape time to cure before mounting the Recorder will give you a permanent bond and prevent recorders from falling off the windshield



Do not use any other cleaning product on the windshield!

Commercial glass cleaners contain surfactants & denatured alcohol which can reduce the effectiveness of the adhesive

- A- Apply Primer to the mounting location on the windshield. It will leave a film when dry.**
- B- Apply Primer to the bracket. Leave the bracket on the dash away from contaminants.**
- C- After the primer is dry and the windshield is the correct temperature, apply the VHB tape marked PERMANENT by ROLLING the tape onto the glass to avoid air bubbles.**
- D- VERY IMPORTANT - Push firmly around all edges of the VHB tape. Apply pressure for 30 seconds**

Proceed to the next page for Step 1 of the installation. **Apply the bracket to the windshield during the last step of the install**



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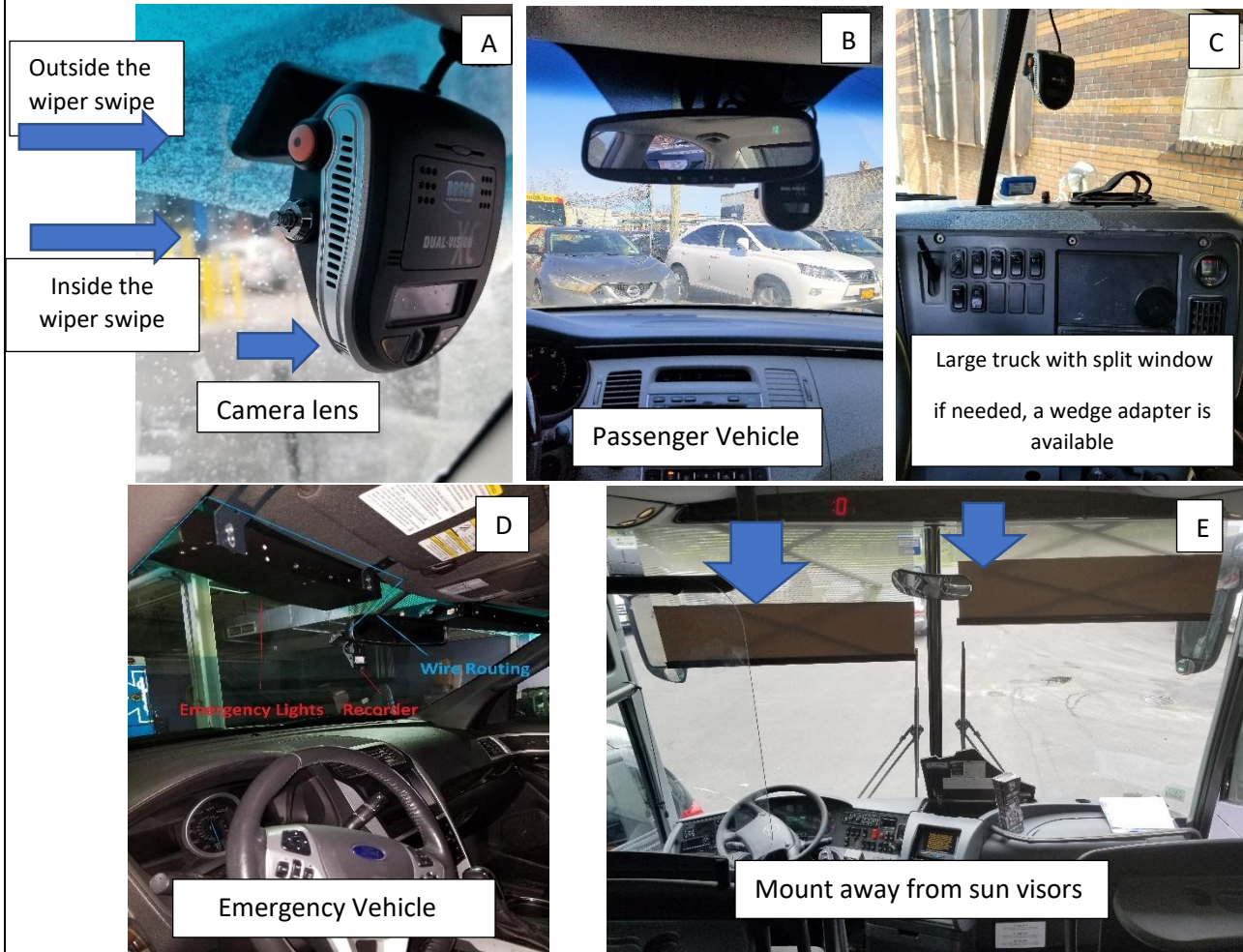
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Mount the bracket in a location that allows the lens to be inside the wiper swipe line (Photo A)



For passenger vehicles, mount the Recorder behind the rear-view mirror towards the passenger side (Photo B).

For larger trucks or buses, mount the Recorder as shown (Photo C) and make sure the lens is **INSIDE** the wiper swipe.

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

Always pull down the vehicle sun visors to make sure they don't block or interfere with the Recorder or the video (Photo E).



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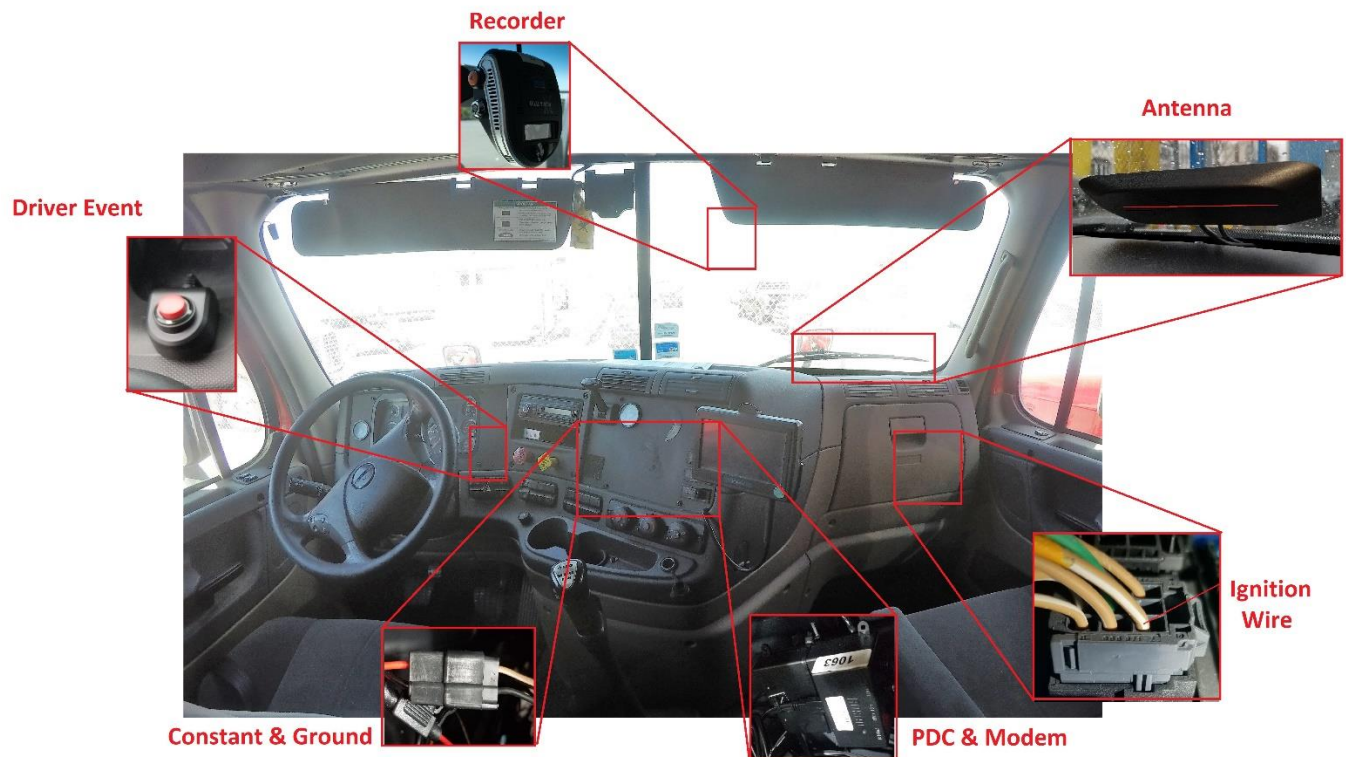
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Installation Layout



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

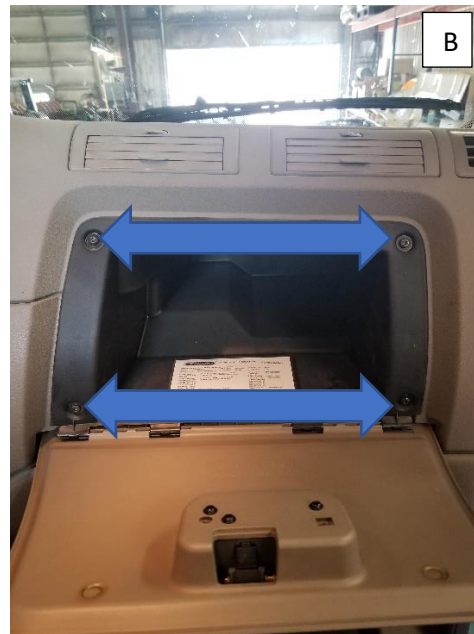




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Step 1 - Dash Removal:

- 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)

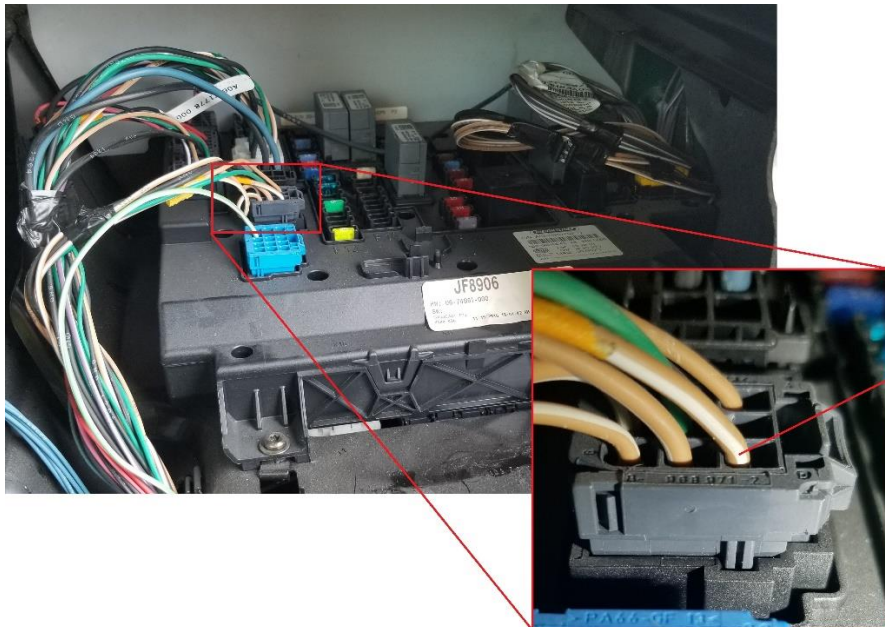




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Step 2 - Power Connections:

- 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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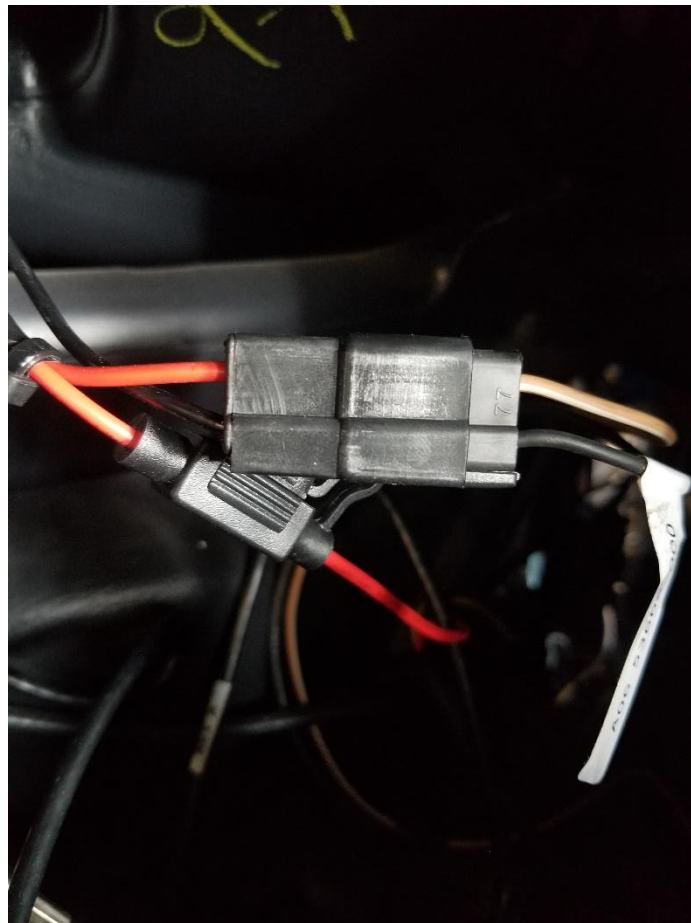
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Power Connections Continued:

- 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

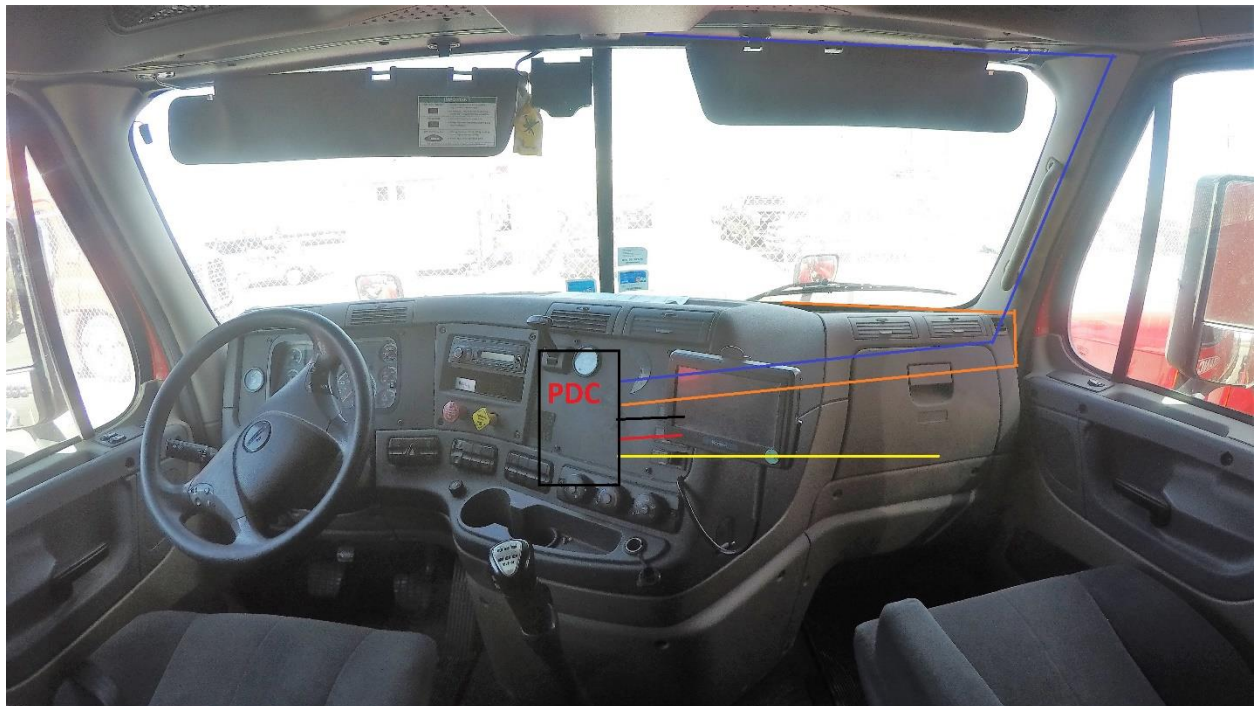
Black – Ground

Red – Constant 12 V

Yellow – Ignition

Blue – Recorder

Orange - Antenna



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Step 3 - Antenna Mounting:

It's important to mount the antenna on the windshield, with a clear view of the sky

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

Front of Antenna (Flat part needs a clear view of the sky). Bottom of Antenna (Curved part) facing inside the vehicle



Notice the angled part of the antenna is facing down (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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Step 6 - Camera Mounting and wire Routing:

IMPORTANT: Windshield Mounting should only be performed when windshield temperature is within 50°F-100°F (10°C-38°C) to allow proper curing of adhesive

At this point you can now mount the Recorder bracket to the VHB tape applied to the windshield on Step 1

Mount the bracket to the VHB tape and apply pressure for 30 seconds (A)

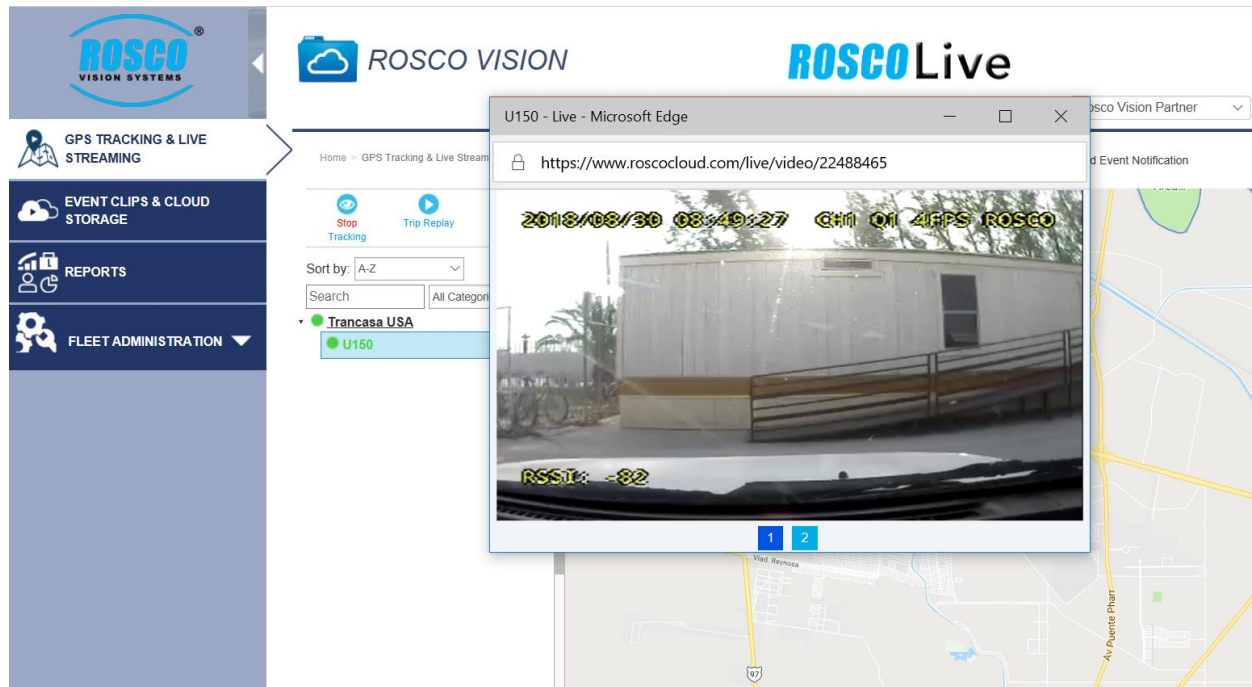
With the vehicle off, hook the Recorder to the bracket from the top (1), then swing down (2)





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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



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