



2015 Thomas Bus Installation Guide

This guide will show the proper way to install a Dual-Vision XC4 Camera in a 2015 Thomas 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.

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

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

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.

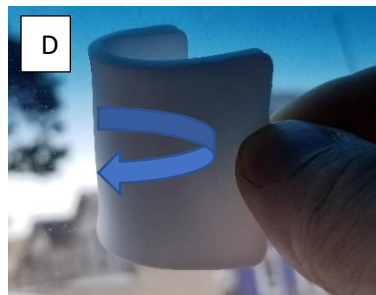


- A- Squeeze to release primer and apply to the windshield
- B- Apply Primer to the bracket
- C- Wait for the primer to dry leaving a dull haze on the windshield

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



***The PDC & Modem will be mounted on the left OR right side of the switch panel depending on what other components are installed in the vehicle (More information on page 8, Section 5)**





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Step 1 - Dash Removal:

- Remove the Switch panel on the left side of the driver by removing the Six Philips screws (A)
- Using a panel tool, pry the storage pocket and pull up (B)



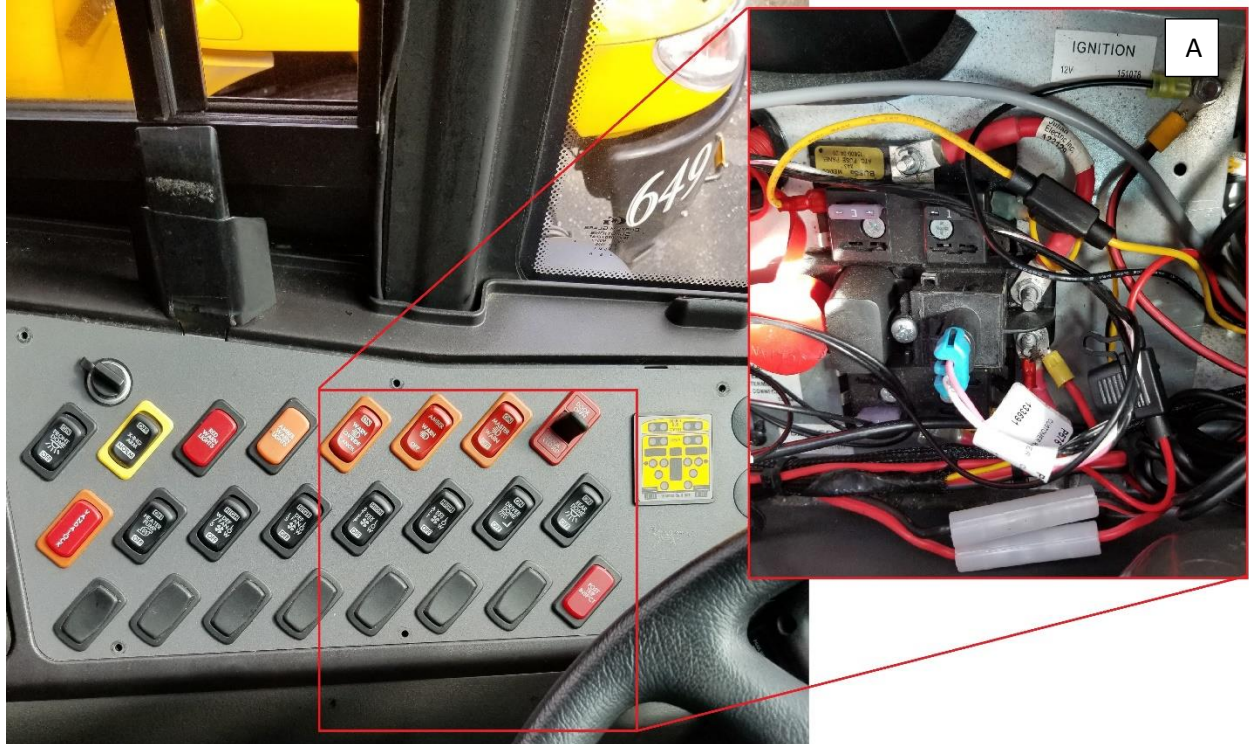


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Step 2 - Power Connections:

ALWAYS TEST WIRES BEFORE MAKING YOUR CONNECTIONS!

- Locate the power junction box located under the switch panel (Photo A)



- Depending on the fuse box in the vehicle, crimp on a ring terminal (A) or female spade connector (B)





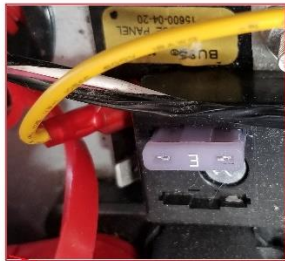
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- The photo below shows a spade connector on the ignition circuit (A) and a ring terminal on the constant circuit (B)
- Make sure a fuse is installed in the fuse box to activate the circuit (3A Fuse shown in Photo A)
- Make your ground connection on the metal bracket under the fuse box (C)

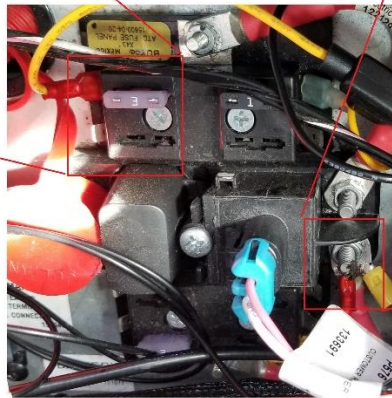
Ignition

Constant

A



B



C



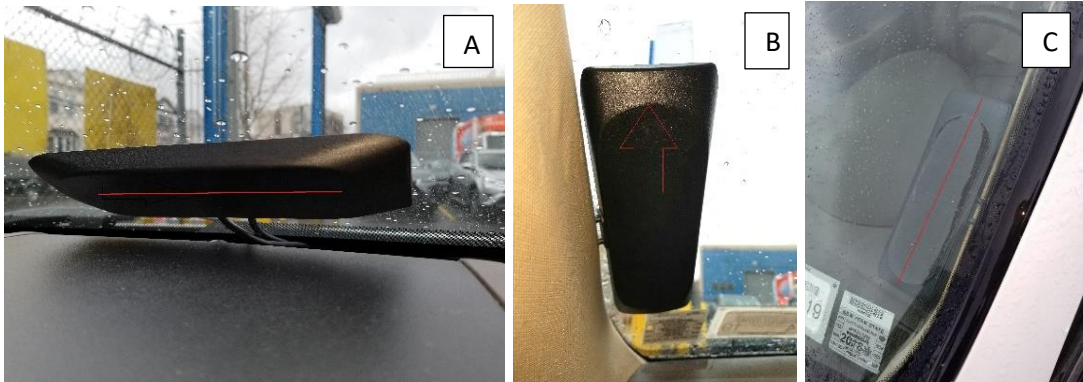


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Step 3 - Antenna Mounting:

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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Step 5 - PDC & Modem Mounting Locations:

- The PDC & Modem are located under the switch panel
- Make sure to secure the PDC & Modem to a factory harness or bracket
- Depending on other components and systems installed in the vehicle, mount the PDC & Modem either on the Left or right side of the switch panel (A or B)



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

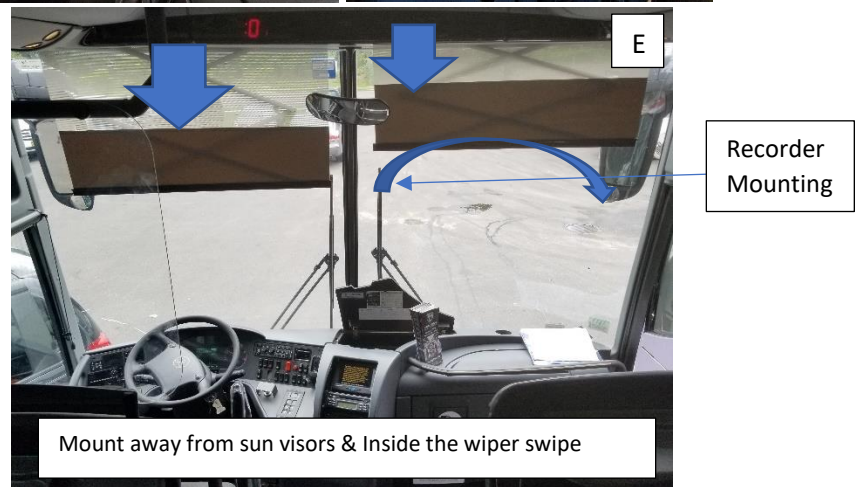
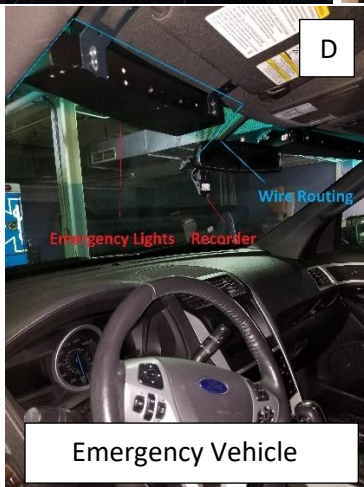
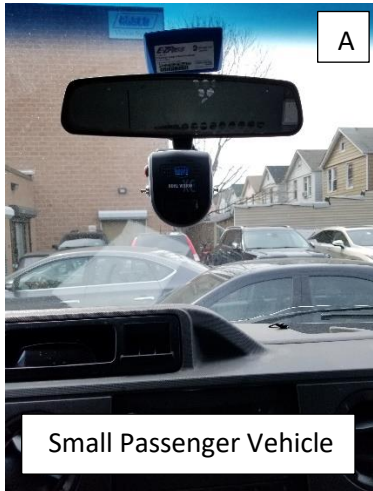




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Follow the **Bracket Adjusting Tool Guideline (MNL402T)** for correct recorder angle

Step 6 - Camera Mounting and wire Routing Continued:



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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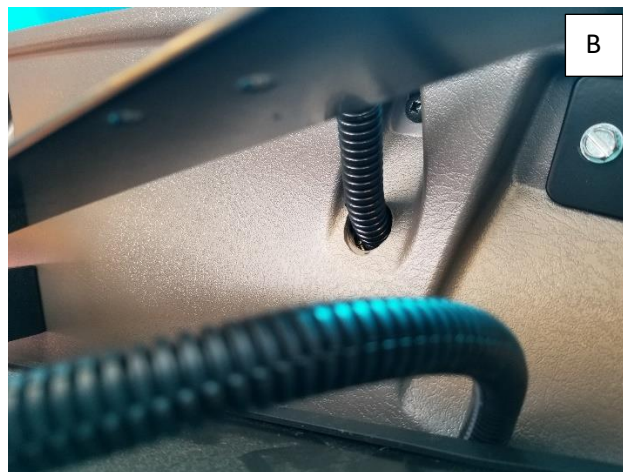
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Step 6 – Recorder Mounting & Wire Routing

- Using a ½ inch drill bit, drill a hole in the bottom of the storage compartment located on the top of the bus (Photo A)
- Follow the blue arrow for wire routing



½ Hole on the bottom of the storage compartment (View from behind rear view mirror Photo B)



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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