

DASHCAM INSTALLATION IN TESLA ROADSTER WITH CONSTANT 12V POWER

Created by John A. Taher



Before you start its important for you to understand that this guide is just for educational purposes. I will not be held responsible for any damage you may cause on your Roadster. You proceed at your own risk. You may void your warranty by installing 3rd party equipment.

Equipment for the job:

- A brain 😊
- Dashcam (I used Blackvue 650 2ch)
- 2,5 mm² cable, black color, few meters long.
- Cable cutter
- Electrical tape
- Cable holder with adhesive
- Fuse tap mini (for flat mini fuses)
- Digital multimeter
- Silicone gun, with transparent silicone
- Industrial ethanol, for cleanup
- Paper tissue, for cleanup
- Butter knife
- Flat headed screwdriver
- Boxcutter
- Cable shoe
- Flashlight with head-strap is recommended
- Ratchet set
- 5A flat mini fuse – Blackvue uses 5A, may differ for other cameras

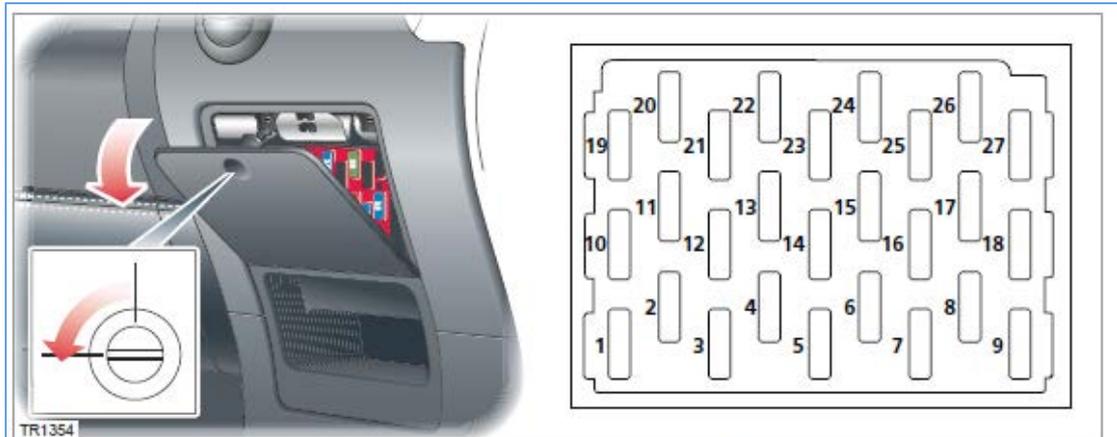
Before we start, we need to locate a 12V constant power. The Roadster shuts down all power when turned off.

There are 2 ways to tap into constant 12V power:

1. The hard way is to connect directly to the 12V battery. Located inside the right front fender. To get to it, you need to take off the wheel and pull off the plastic shield inside the wheel space. Then run the cables through to get inside the cabin.



2. There is a much easier way to do this. On the right side of your vehicle on the passenger side, there is a compartment for your fuses. Inside the fusebox we are going to **tap into fuse #13**. It's a 7,5A fuse used for the alarm of your car.



Replacing a fuse

⚠ WARNING: Use replacement fuses of the same rating and type or fuses of matching specification. Incorrect fuse ratings can overload a system and cause a fire or malfunction. Blown fuses should be replaced and no attempt should be made to repair a blown fuse.▲

Fuses protect the vehicle's electrical systems from damage. The failure of any fuse will render the equipment it protects inoperative.

1. Before removing a fuse, turn off all electrical equipment and remove the key.
2. Locate the fuse box. The fuse box is located behind the access panel on the passenger side of the dashboard.
3. Open the panel to access the fuses. Remove the panel by using the screwdriver supplied in the toolkit to

rotate the fastener 90° counterclockwise, then release the panel from the dashboard.

4. Consult the fuse specification chart to determine which fuse is protecting the non-functioning electrical system.

Note: A label is also affixed to the inside of the panel.

5. Remove the appropriate fuse and replace with a fuse of the same amperage as the original. If in doubt, check the fuse specification chart on the following pages.
6. Re-install the fuse panel by aligning the hinges at the bottom of the panel with the slots on the surrounding dashboard area. Secure the panel by rotating the fastener 90° clockwise.

If a replacement fuse fails to solve an electrical failure, or the replacement fuse fails prematurely, contact Tesla Motors.

Now that we know the location of the fusebox, lets start:

1. Make sure you vehicle is shut off. Then pull out fuse # 13 from the fusebox.



Use the digital multimeter to measure the battery current. Use the bottom pin inside the fuse holder. This is the + leader. (RED)

To find ground you need to dive into the passenger foot well. It's a tight spot and very difficult to crawl into.



Use the ratchet tool, to unscrew the bolt.

Connect a cable shoe at the tip of a 2,5 mm² cable. Run the cable shoe through the bolt and fasten the bolt. Use cable holder to hold the cable in place.



Go along the side with the cable holder.



Run the cable through the gap and fish it out inside the fuse compartment.



We will get back to the fusebox later. Lets just continue with the signal cable for the rear camera.

Line up the cables from the dashcam and use electrical tape to mask and hold the cables in place while you run it along the window.



Use the silicone gun to glue the cables to the edge of the window. If you miss some parts or make a mess....use the industrial ethanol with a paper tissue to clean it.

Run the cables all the way down. Then find a small gap to push the cables into the fuse compartment.

The signal cable to the back camera continues further down from the fuse compartment. Gently pull off side cover starting to lift from the back to front. Its held together with velcro strips.



Run the signal cable along side of the side cover. Just open the carpet and push it in.



Use the butter knife to tuck the signal cable inside the plastic cover. All the way up. It's a tight place behind the seat. You may wanna pull the seat little bit forward for better access.



Run the cable under the speaker plastic cover.



Continue to tuck the signal cable under the plastic cover. You might need to go twice with the cable back and forward because of the length of the cable. Continue the to towards the other speaker.



Push the cable and hide it the gaps. It will fall in place. Use the butter knife to tuck it along the window and the plastic on top.



Now we are finished with the rear camera. 😊

Lets go back to the fusebox.



Use the multimeter and check that everything is good and you have 12V constant power even thou the car is off.

Connect the + lead of the camera power cable to the end of the fuse tap.



The fuse tap has 2 available places for fuses. The top place goes to the attached cord. Insert your 5A (Blackvue uses 5A. It may differ from your camera, see instruction manual for your camera)
The bottom place goes to the original fuse that you pulled out earlier.

ITS IMPORTANT YOU DO THIS PART CORRECT! If you mix these two it may damage your vehicle and destroy the camera!!

Attach the end of the ground cable to the – leader of the power cable to the camera. Use cable holders to fasten the cables inside the fusebox compartment.

You are done! 😊 😊 😊



*Created by John A. Taher, Norway
For educational purposes. Use at your own risk.*

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