

Porsche PCM 3.1 Backup Camera Installation Instructions.

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Before you start please understand that these installation instructions are provided on a “as is” basis use at your own risk. Maxspeed-Motorsports will not be responsible for any damages or bodily injuries that can be caused by improper installation of our products. As always professional installation is recommended. Never go underneath your car if using a floor jack without securing it with jack stands first.

Tools & Materials Needed

Various Tools (Plastic Pry Tool Kit)

Ratchet Kit

Fishing tool (To fish wires)

IMPORTANT NOTES BEFORE PROCEEDING WITH THE INSTALLATION

1- IT'S BEST TO DISCONNECT THE BATTERY WHEN PERFORMING ANY WORK THAT INVOLVES ELECTRONIC MODULES SUCH HAS THE EMULATOR THAT COMES WITH YOR BACKUP CAMERA KIT. THE EMULATOR IS VERY SENSITIVE TO SUDDEN VOLTAGE SPIKES THAT HAPPENS WHEN YOU CONNECT THE PCM HARNESS WITH EMULATOR IF YOU DECIDE NOT TO DISCONNECT YOUR BATTERY YOU RUN THE RISK OF DAMAGING THE EMULATOR MODULE. YOU MUST DISCONNECT THE BATTERY PLEASE REFER TO “STEP-1”

2- BEFORE ROUTING THE VIDEO CABLE ALL THE WAY TO THE BACK AND REMOVING ALL THE TRIMS IT'S BEST TO TEST THE SETUP. THAT MEANS

REMOVE THE PCM AND INSTALL THE CAMERA KIT TO VERIFY THAT EVERYTHING WORKS. AGAIN, TEST IT BEFORE PROCEEDING TO THE COMPLETE INSTALLATION. THIS IS TO PREVENT HAVING TO REMOVE ALL TRIMS ONCE MORE IF A PROBLEM SHOULD OCCUR.

3- PLEASE REMEMBER TO TAPE ALL THE CONNECTIONS, WE ARE REFERRING TO THE RCA VIDEO CONNECTION BEHIND THE PCM, THE RCA CONNECTION TO THE BACKUP CAMERA, THE POWER CONNECTION TO THE CAMERA AND FINALLY THE POWER CONNECTION (WHITE WIRE) ON THE PCM HARNESS.

The instructions are off a 981 Cayman, depending on your model the trim removal and cable routing will defer. Please call or e-mail us with your model if you have any questions on how to route the cable to the rear.

PLEASE REFER TO THE PICTURE BELOW FOR THE PARTS INCLUDED IN YOUR BACKUP CAMERA KIT.



LEFT: CAMERA WITH BUILT-IN LICENSE PLATE LIGHT - **MIDDLE:** VIDEO AND POWER CABLE - **RIGHT:** PCM HARNESS WITH PCM EMULATOR

SEE DIAGRAM BELOW ON HOW THE SYSTEM CONNECTS ALL TOGETHER



ASSUMING YOU HAVE VERSION 4.3 UP FOR YOUR PCM 3.1 PROCEED WITH INSTALLATION. (PRESS SOURCE AND INFO AT THE SAME TIME TO VERIFY VERSIONS)

Step 1- FOR PDK OWNER'S You will need to disconnect the battery so make sure your front and rear lids are opened, passenger door unlocked, parking brake applied and rear spoiler raised. Put the key to "ON" position put the PDK Selector to "D", you won't be able to remove the key but turn back one position to "ACC", now disconnect the battery.

FOR MANUAL TRANSMISSION OWNER'S. You will need to disconnect the battery so make sure your front and rear lids are opened, passenger door unlocked, parking brake applied and rear spoiler raised, now disconnect the battery.

Step 2- Remove the side center console trims (Left and Right) with proper tool, we recommend Plastic Pry Tools to avoid any scratches or damage to the trims. Simply slide the tool between the trim and center console and pop the trim unclip it completely, once unclipped pull trim back toward back of the car, the trims should now be out of the way and give you access to the 4 screws that hold the PCM in place.



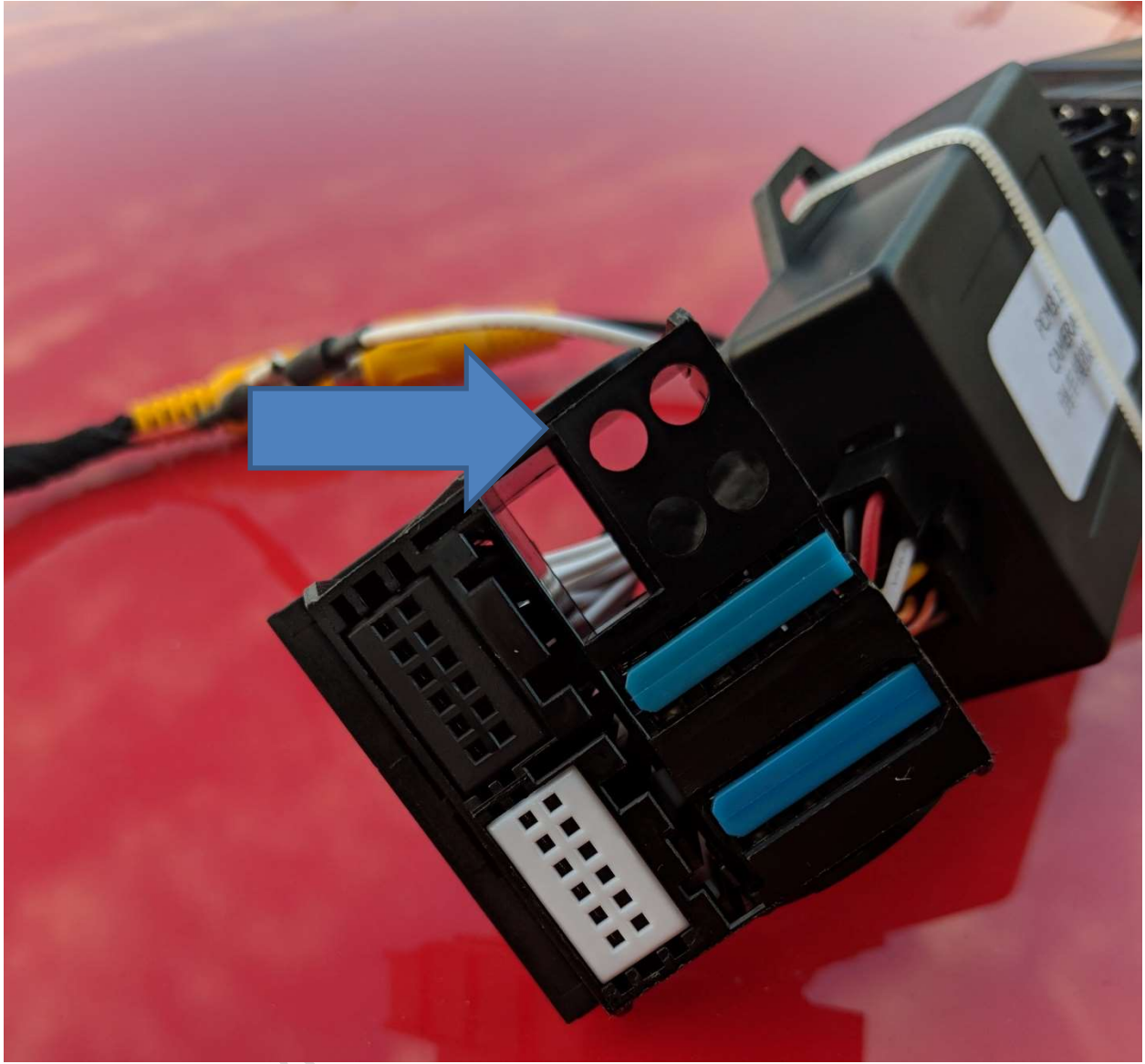
Step 3- We recommend you use some shop rags or towels and place these on your center console and over your shift knob to avoid any damage or scratches. Remove all 4 screws and pull out the PCM. See blue dots shows where screws are located behind the trims.



Step 4- Disconnect the Black Connector from the PCM, disconnect the various antenna cables (up to 4 of them) and set the PCM on the side.

IMPORTANT

Step 5- Look at the factory harness, the big black connector you disconnected from the PCM, you will see 2 orange wires that is the fiber optic connector, that connector must be transferred from the factory harness to the new adapter, simply raise the small clip behind the fiber optic connector and pull it out, now just clip it to the new PCM adapter that came with your kit.



Step 6- Install the PCM Adapter to the Porsche PCM Harness basically the adapter will now fit between the Porsche factory PCM harness and the PCM Radio, make sure the connector is locked. Don't install the radio yet.

IMPORTANT: THE WHITE WIRE WITH THE TERMINAL WILL HAVE 12V+ POWER ONCE ITS CONNECTED TO THE FACTORY HARNESS, COVER IT WITH TAPE UNTIL YOU FINALIZE THE INSTALLATION TO PREVENT THE TERMINAL FROM TOUCHING GROUND AND CREATE A SHORT CIRCUIT.

Step 7- Remove the 12V Power socket trim. Simply remove the torx screw and pull the trim back.



Remove the fuse box cover and trim. Pull the fuse box trim towards the center console and then pull back towards the rear of the car the trim will come off.



Pull the carpet out towards the seat



Remove the door sill trim, this trim is clipped insert pry tool and pry it out.

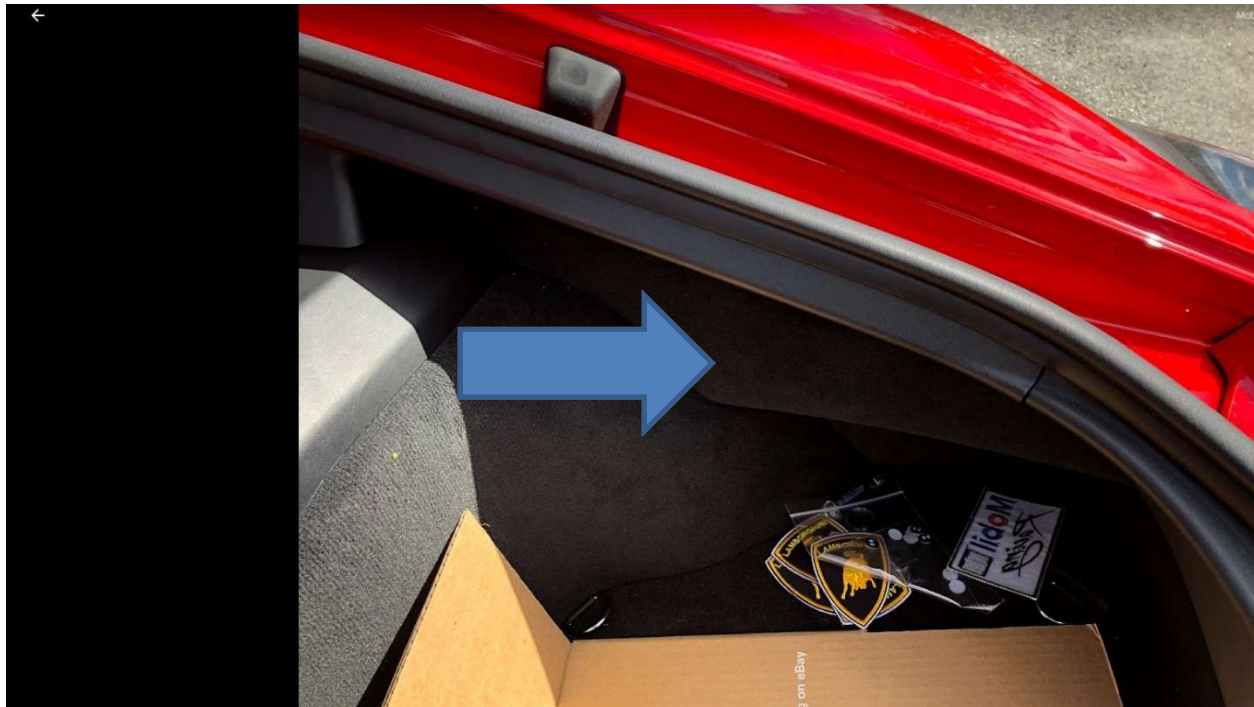


Remove Pillar Trims again with pry tools, everything is clipped there are no screws.



Remove trims to access rear tail light





Step 8- Once the rear tail light trim is removed you will see a Rubber Plug, remove the plug to access the 10mm screw, remove the screw this will release the tail light. Pull out the tail light, disconnect the tail light connector, set the tail light aside.

Step 9- Now that you have removed all trims, you must route the video cable from the PCM to the rear tail light. Connect the RCA Cable to the PCM Adapter and connect the male terminal to the female terminal on the PCM Adapter, now bring that video wire all the way to the tail light finding your way via all the trims you removed. Insert the video cable in the hole where you removed that rubber plug and bring it to the tail light opening.

Step 10- Remove the factory license plate light housing on the right side (Passenger's side), disconnect the factory connector.

Step 11- Raise the rear spoiler via the center console. By using a Fish Tape or any type of fish tool from the tail light area you will see a small opening insert fish tape until it comes out of the license plate opening, tape the video and power wire from the camera to the fish tape and bring those wires to the tail light area.

Step 12- Connect the Power Wire and RCA Cable, tape all connections to protect against humidity and this will help secure the connections even more.

Step 13- Connect the license plate light connector to the cars connector and secure the camera in place.

Step 14- Connect the PCM Adapter to the PCM Radio, install Radio

Step 15- Re-install all trims

ABOUT CODING

If coding via PIWIS SCANNER

Visit your Porsche Dealer or Indy Shop who is equipped with Porsche Piwis Scanner. PCM 3.1 must be coded to accept the backup camera.

Boot Piwis, select your model (i.e 981/991/Panamera/Macan), Scan all modules, select PCM Module, Erase any present Fault Codes, some codes may remain in memory and cannot be erased that's fine it's very common to have random errors when scanning PCM.

Now click Coding > Manual Coding > Click F12 > Select "Reversing Camera" or "Rear Park Assist + Camera" depending on the PCM Version sometimes the "Reversing Camera Option" will not show up alone if that's the case you have to select "rear park assist + reverse camera" make sure the box is checked > Select F8 and code.

Exit from Piwis Scanner. Power PCM, push "CAR" Button then "Options" Then "SET CAR " and you should see the backup camera settings.

Congrats your PCM is now coded.

IF USING OUR OBDII CODING TOOL PLEASE DOWNLOAD THE INSTRUCTIONS AVAILABLE ON OUR WEBSITE.

Congratulations you're done.

If you have any questions please don't hesitate to contact us via e-Mail at sales@maxspeed-motorsports.com or by telephone at 855.466.2977.

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