

# Porsche PCM 3.1 Front/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)

Screwdrivers

Ratchet Kit

Fishing tool (To fish wires)

Good Quality Electrical Tape

Drill and Drill Bit (For those who are installing Center Mount Camera)

## **IMPORTANT NOTES BEFORE PROCEEDING WITH THE INSTALLATION**

**1- 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 AND THE POWER CONNECTION TO THE CAMERA**

**2- FOR THOSE OF YOU WHO HAVE THE BOSE SOUND SYSTEM THERE IS A FIBER OPTIC CONNECTOR. REMEMBER TO TRANSFER THE FIBER OPTIC CONNECTOR FROM THE CAR'S PCM HARNESS TO THE PCM HARNESS THAT CAME WITH YOUR KIT.**

Refer to our installation instructions for the backup camera available on our website on the Backup Camera product Page . This will give you an idea of all the trims that need to be removed in order to bring the video cable all the way to the rear bumper.

Once again refer to the installation instructions for the backup camera installation available on our website .

For the front due to the variety of different bumpers and many different way to route the cable trough the firewall you will have to figure out a way to route the cable from the front bumper trough the firewall, use common sense you can go trough the front tub or go underneath those black plastic trims that surround the front trunk tub then make your way to the firewall on the passengers side preferably and get that cable trough.

SEE BELOW FOR A DIAGRAM SHOWING HOW THIS SYSTEM IS CONNECTED



**Step 1-** Code the PCM3.1 with the coding tool if you rented ours or with a scanner that is capable of coding the PCM3.1

**Step 2-** Remove the PCM3.1 Radio . If you have an automatic transmission put the key to the ON position , apply the electronic parking brake and without starting the car engage the transmission shifter to the DRIVE position “D” , this will allow room for the PCM to come Out. Disconnect main harness and all other connections behind the radio.

**Step 3-** Install the PCM Harness

**Step 4-** identify the cable labeled “Video output” from the 2-way video module , that cable is a Yellow Male RCA at one end and a white connector at the other end . Route the cable trough the opening behind the PCM3.1 the opening is on the right side (Passenger’s side) right by the trim you

removed with the 12v cigarette lighter socket. Connect that Male RCA cable to the Female RCA cable on the PCM3.1 Harness you just installed. Use tape to secure the RCA connection.

**Step 5-** Install the PCM3.1, because of the PCM3.1 Harness you may feel some resistance into pushing back the PCM3.1 you will have to play or wiggle the harness until the radio sits in properly, the black emulator box attached to the harness can be tucked in all the way in the back it falls in a space at the back of the radio enclosure , once fitted secure it with the 4 x Torx Screws. Do not install the side console trims yet.

At this point you have installed the PCM3.1 Harness with the RCA cable connected to it from the 2-Way video module.

**Step 6-** Pull the carpet on the passenger's side footwell towards the rear and secure the 2-way video module , use your imagination to secure the box , you can use zip ties or any other means to secure it. The box will be behind the carpet against the firewall. Now connect the Output cable connector to the connection labeled "Video output" on the 2-way video module .

**Step 7-** Locate RCA cable that connects to the 2-Way video module labeled rear it's approx 4-6 inches long and has a Female RCA and white connector at the other end. (There are 2 of them both are the same it doesn't matter which one you connect) Connect it to the 2-way video module labeled REAR.

**Step 8-** Locate the RCA Video Cable the super long one , it has a male RCA connector with a red wire and a black connector at the other end . Connect the Mae RCA to the female RCA wire labeled REAR on the 2-way Video Module . Secure the RCA connection with tape.

**Step 9-** Locate the long single electrical wire , this is just a long normal electrical wire , the color of the wire may differ depending on our supply of it. Strip one end of that electrical wire. Now locate the wire harness from

the 2-way video module . It has a RED/BLACK/BLUE wire . Strip the Blue wire and Connect the electrical cable to that blue wire . Connect the harness to the 2-way video module labeled POWER.

**STEP 10-** Run both the Video cable and the electrical wire all the way to the taillight.

**STEP 11-** install your rear backup camera , connect the video cable to the backup camera.

**STEP 12-** Connect the single electrical wire to the backup light + wire on the taillight connector for 911 and to the reverse light on the bumper for a 981.

At this point you are done with connections

For the rear now Let's move on to the front .

**STEP 13-** Remove front bumper

**STEP 14 -** Find a suitable location to install the front camera on your bumper.

**STEP 15-** locate the other super Long RCA video cable and route it all the way to the front passenger footwell you will need to get through that firewall .

**STEP 16-** connect the front RCA make cable to the short RCA cable from the 2-way video module labeled FRONT , tape the connection and connect to the 2-way box .

**STEP 17-** Install front bumper and all trims, don't forget to connect the front camera to the video cable .

**STEP 18-** locate the switch that came with the 2-Way video module connect it to the 2-way video module harness ( labeled POWER) find a suitable location to stock that switch to , in my case I stuck it to the side center console trim right next to the radio.

**STEP 19-** on the harness labeled power you have a black and red wire left to connect , find a suitable ground and connect the black wire to ground. Now on the video box the RCA video cables have a short red wire on each one you will have to join them

Together and join the red wire from the harness labels power , you have to connect all 3 of them together .

**STEP 20-** Locate the power wire with a terminal at the end and fuse box connector terminal , strip the other end of the cable and connect that cable to the 3 red wires , of course tape your connection . Bring that cable to the fuse box and connect it to the fuse adapter to a fuse normally a fuse that has power at the “ON” position , the lower row towards the front of the car are suitable they have power on the “ON” position .

**STEP 21-** Test the setup , make sure the parking brake is off . If the parking brake is engaged the PCM disables the cameras.

That's it enjoy! .

## **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](mailto:sales@maxspeed-motorsports.com) or by telephone at 855.466.2977.

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