

## Reversing camera in Center Line incl Navi retrofit?

Here I create times a report on the installation of a rear view camera. the installation is carried out in this manual without the connection on the parking sensors, directly to the screen via the plug 6A/B/C/D

### Appendix 27680

6A = 6v +  
 6B = Ground  
 6C = video minus / ground  
 6D = video signal

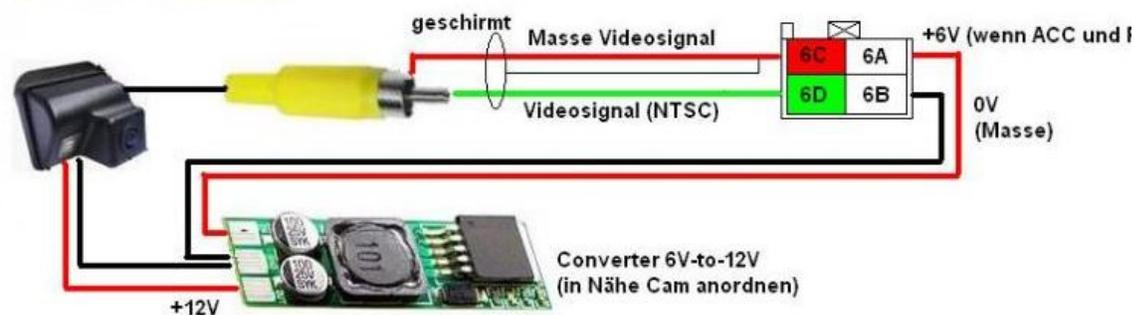
Short basic explanation:

When the engine starts, a pulse of 6A (6 volts) is for 1-2 sec. given to the camera, this video signal to the monitor unit. Monitor unit detects the video hardware and are changed each time the reverse gear on 6A 6 Volt to our camera.

The circuit diagram of AmiVanFan cause scatterbrained light 3 variants how to connect converter. Option 2 is not only suitable for testing, but also to their final installation, on the camera is running because of the constant (screen goes but only in reverse gear on Variant 2, and 3 no converter is needed because 12V already issued (note: for version initialization at each engine starting in reverse gear required)

I have the version 1 was used. Following 6ABCD

### Variante 1 (mit Converter)



What is needed for the installation:

**1x Rearview** CMOS / CCD / NTSC (I have SUCH taken)

This you should test it on the TV with a transformer before.

The supplied 5m RCA cable extends up to the front.

**The supplied power cord only extends to the taillights. Therefore, please also : low voltage cables get, which is long enough.**

**1x DC / DC converter** that. 6 Volt to 12 Volt converts (if you have a 12V camera as in example) Pay attention to sufficient amps. I have taken this converter.

**Tool** for opening the plastic panels (screwdriver cross and slot, 10mm nut ratchet, Interior interior trim removal tool kit cars

**1x soldering iron with solder**

**Electrical tape and shrink tubing, small cable tensioner**

Either original or identical Toyota plug connector (: **PLUG 4-Pin Connector (Reverse Car Video and Power)** to expand), or the cheap version (4 pins from an old computer and encase with Schrumpfschläuchen.

[Video and Power](#)) to expand), or the cheap version (4 pins from an old computer and encase with Schrumpfschläuchen.

We build the camera in the 5th A door (tailgate) - instead of the left license plate light, you have another camera, next to the number plate light). The cables will be routed via rubber cable tunnel from the door to the car sky, turn left at the D-pillar down into the trunk. There may possibly be routed via matching Parktronic the video signal. Next leave the way to the door steps to the cockpit, and then to the screen.

To route the cables and install the camera, we need only times to remove all plastic parts. For reasons of space I will give only the Velinkungen to the pictures here.

aa) [cladding on the tailgate](#)

ab) [Part 1 / View Similar](#)

ac) [part 2 on the left and right remove / view clips](#)

ad) <http://www.mazda-forum.info/members/...re27089-07.JPG> / <http://www.mazda-forum.info/members/...re27088-06.JPG>

b) The [logo bracket / bezel above the license plate](#) must also be unscrewed. So it is easy to change the number plate light to the camera. Eventually, it is necessarily somewhat customize the version with a veneer. What is honing her regardless, best camera. Should you use the camera, which one is next to the lighting, so you can also handle it (here you have a hole for the camera in the plastic cover and cable entry drill into the door. Hold Uses best a rubber grommet around the water away .

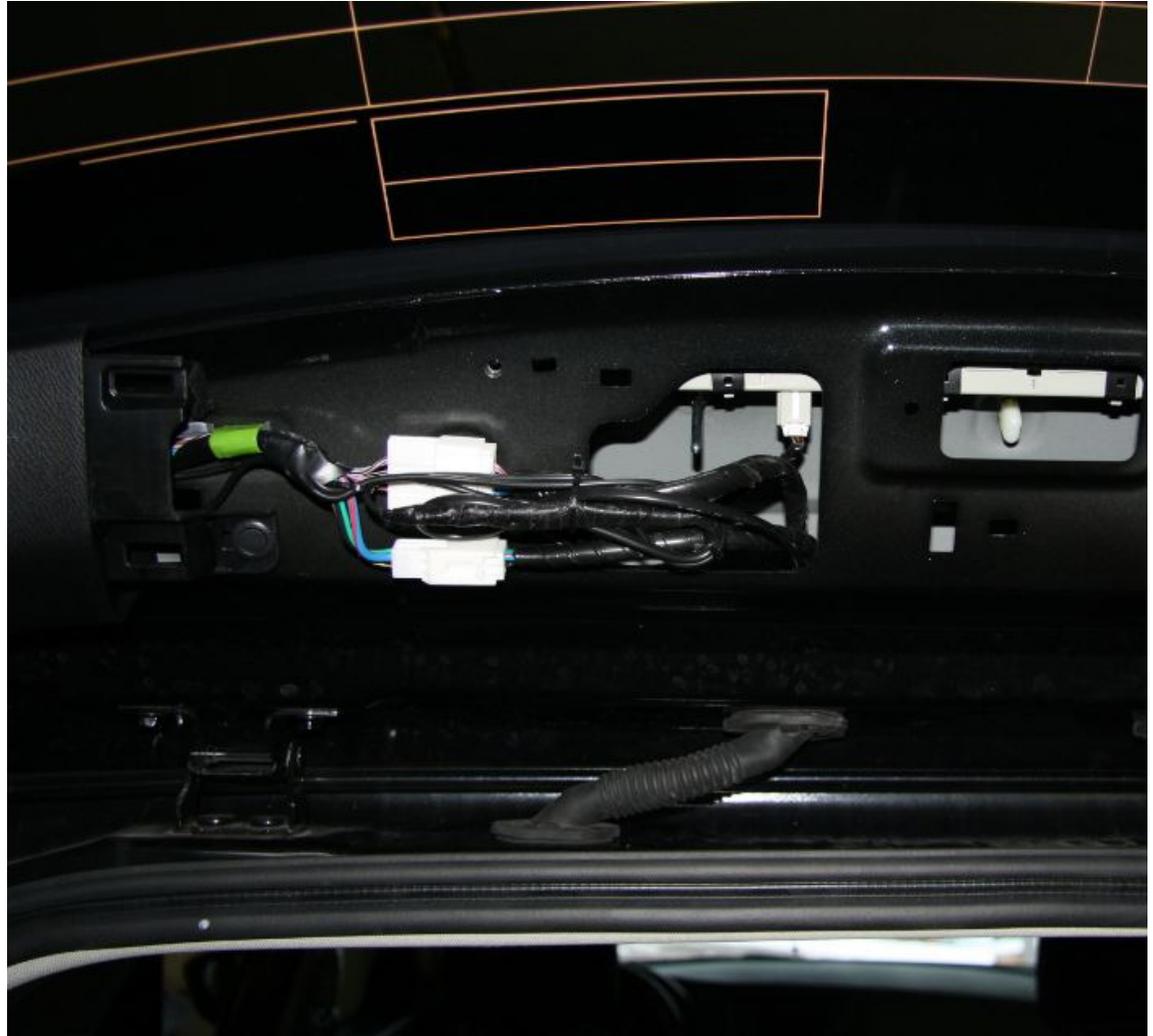




When the camera is used you must cable the best result in the left rubber tunnel. This always nice fix to the existing harnesses with cable clamps or electrical tape. [thornter0:02 AM](#)

When the camera is used you must cable the best result in the left rubber tunnel. This always nice fix to the existing harnesses with cable clamps or electrical tape. then later does not rattle.

The cable we guide you through the very tight rubber channel in the roof (to help take wire and strong rope). At the D-pillar, we run the down to the plastic cover of the left w well.



c) [cover left in the trunk](#)

This is something great but failed to decrease slightly.

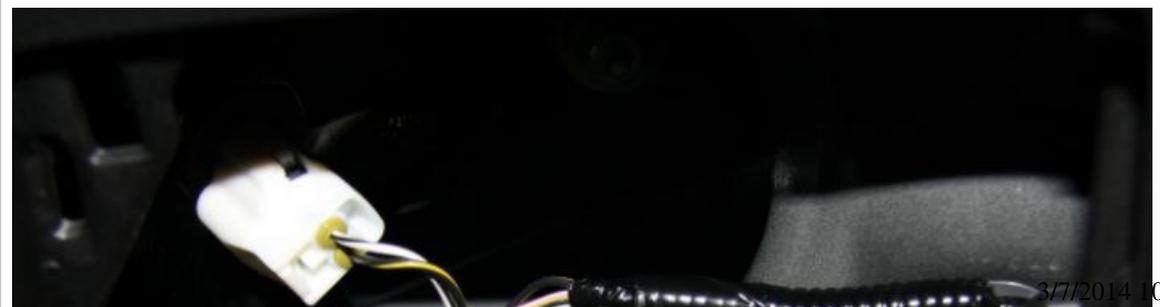
[FIG1](#)

[FIG2](#)





The plug extensions together and strip.





Here it is best to the DC-DC 6V/12V converter. (Which is on the tailgate . course it is be if the Works as close as possible to the camera affixes (eg. in the tailgate). I do not me hidden in the hatchback, but the lamps in the trunk. also. You can also install the scree the unit, but he is closer to the camera, the more stable is the supply of 12V. The converter best hide in a fuse to protect against condensation, and for aesthetic reasons. Since I did not have these on hand, I have the converter temporarily wrapped anti-static bag in which it was delivered to me.

Next we introduce the two cables Video and power cable to the thick tube forwards to t foot pedals. When attaching the doorsteps respects that squeezes her nothing, or with clamping arms nothing separates.

d) doorsteps [rear](#) and [front](#)



e) The plastic cover at the fuse box in the footwell is also easy to dismantle.

expand f) Screen

[Remove the trim panel \(laterally inverted image here\)](#)

[Pull the screen frame just forward](#)

solve on screen the 2 Phillips screws on the right and left, loosen the screw 10mm nut under the screen, drag the screen to the front. Requires some force, as it adheres to fo strong clips.

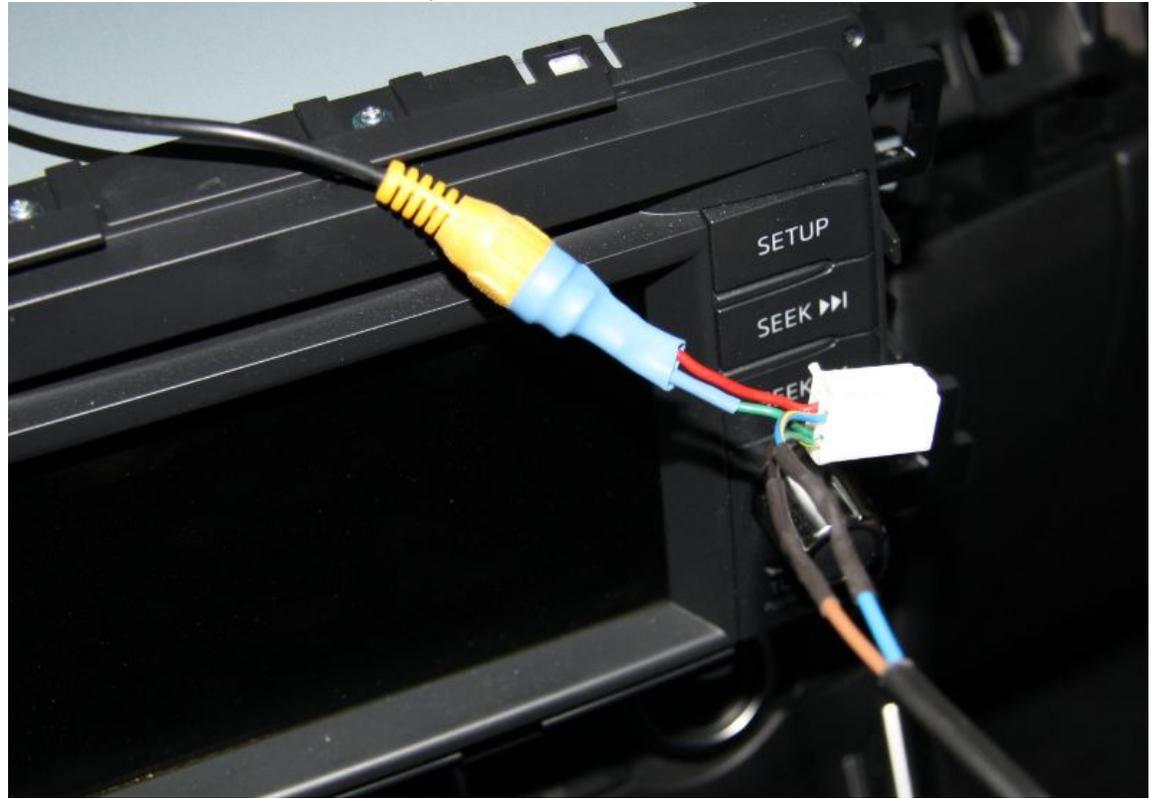
Still Attract the cables under the torpedo to the screen and now the real work begins. 9/9/2014 10:02 AM

strong clips.

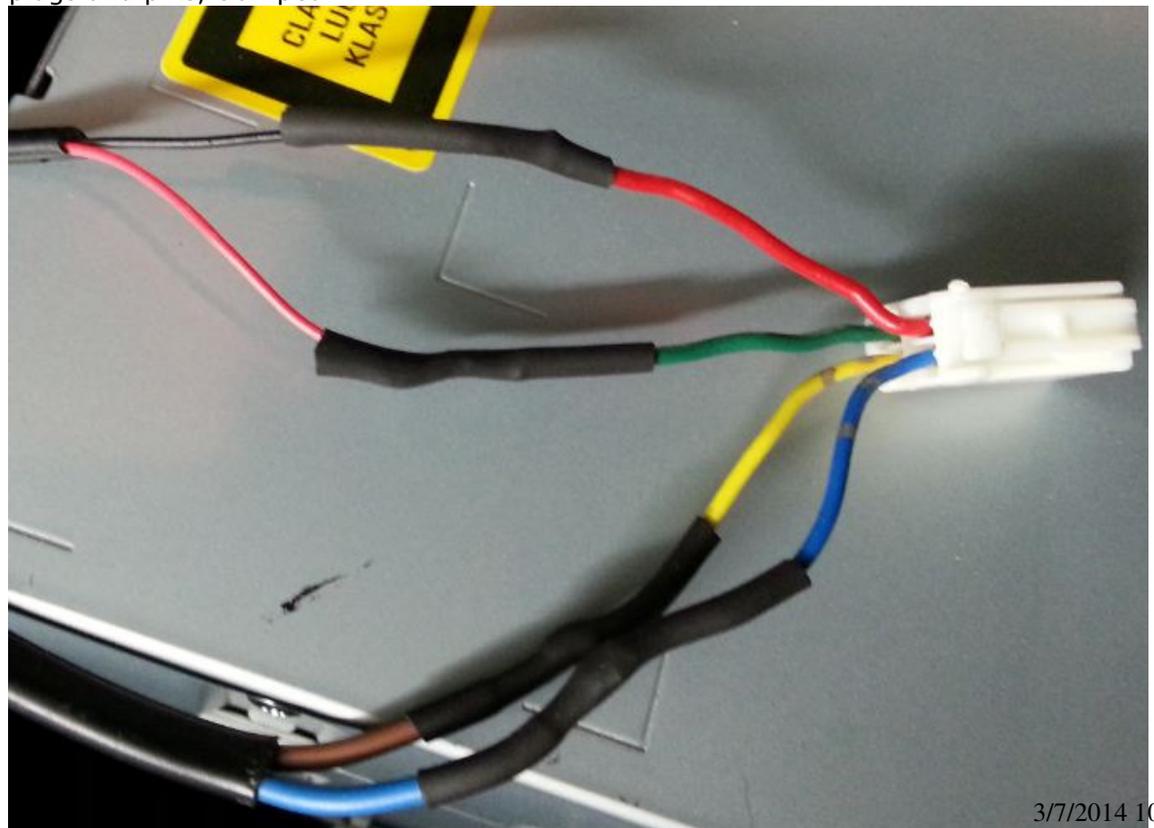
Still Attract the cables under the torpedo to the screen and now the real work begins.

You must choose between the three types of connections:

Following the screen on an original or identical connector. In this case, the video cable t the connector is soldered directly to the Chinchbuchse connected

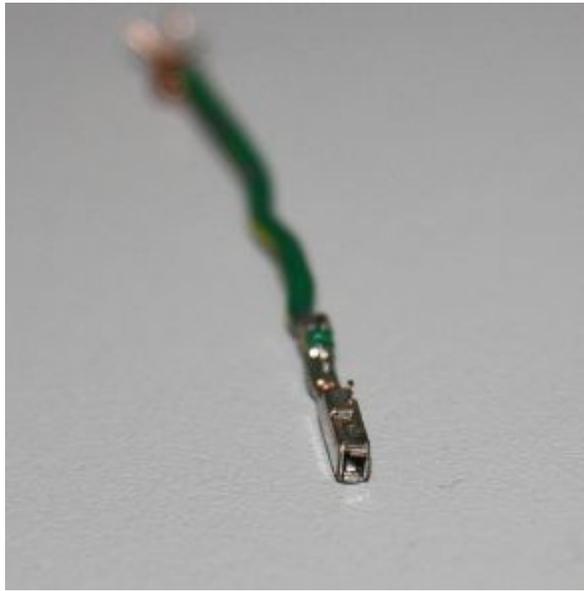


Following the screen on an original or identical connector. Here is truncated when the vi cable Chinchbuchse and soldered to the individual threads or better yet, if you have a V plugs and pins, clamped.



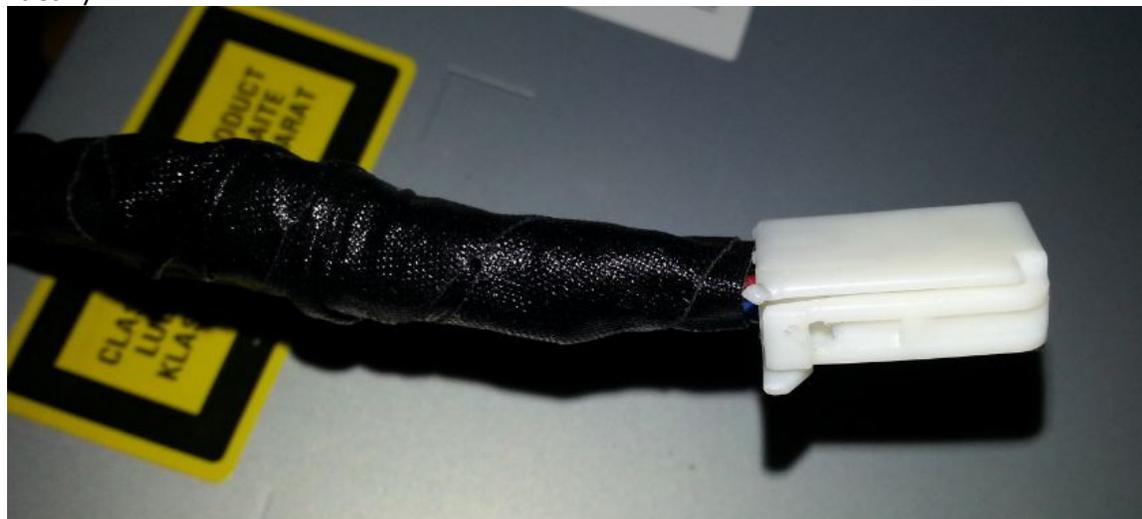


Following the screen without the plug. Simply the cable to individual pins to solder (with without Chinchbuchse), strip and connect to the screen.

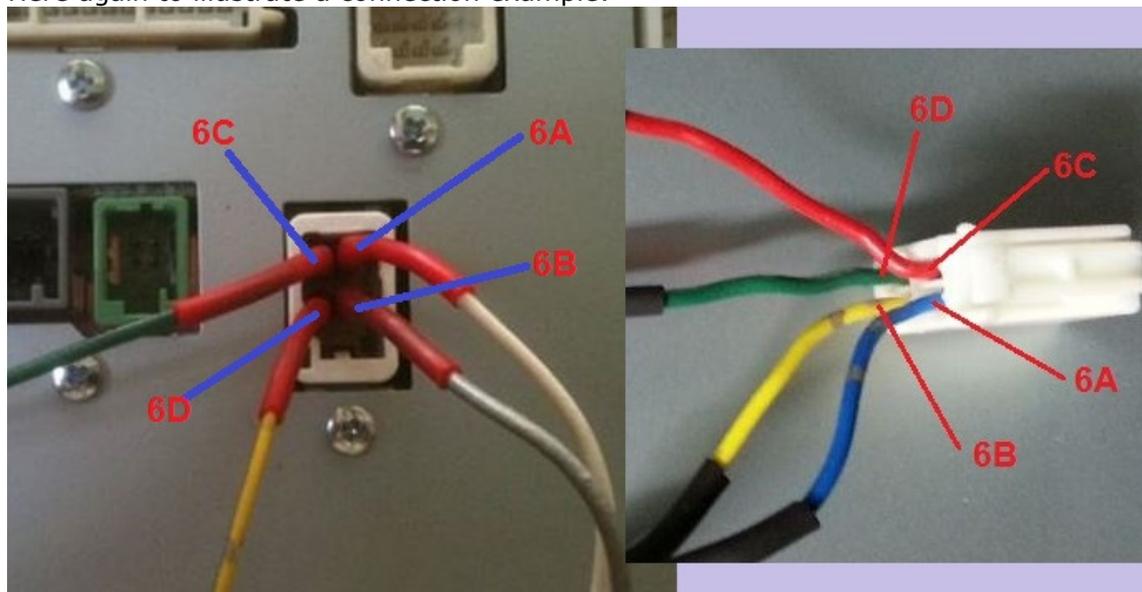


Ideally:

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Here again to illustrate a connection example:

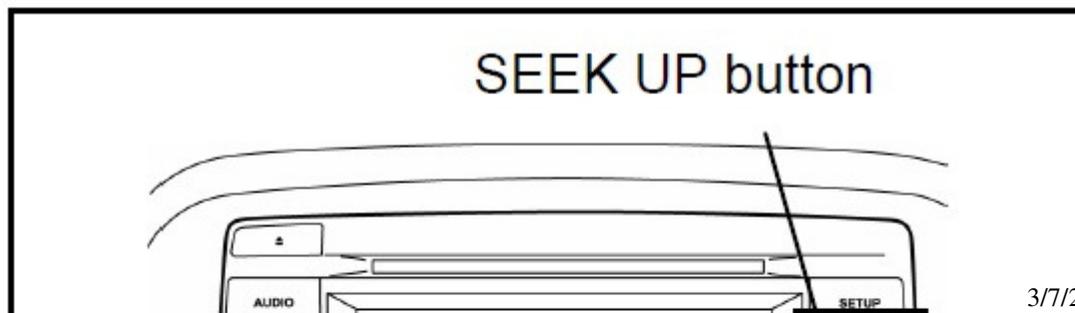


**Piece of advice:** please do not take necessarily the original RCA cable, but a somewhat higher quality. Thus, it avoids the problems of overheating of the crushing and during the soldering and shrink.

If you have clamped everything can test their camera to function. starts the motor and starts the initialization. This is done only once. if all goes well, this no longer necessary at the next start.

Initialization:

The simultaneous pressure of the buttons and POWER TO SEEK, give the code 92 and p POWER again.





Now, when you put into reverse, the camera turns on and you see the image on the scr