Installation instructions for your MFD32 in the BMW G2X G42 G8X

Prelimary

Thank you for purchasing your VADpro display for the BMW G8X.

During the development of the product we paid attention to the highest accuracy of fit and quality. The display has been tested with these installation instructions by several test persons and continuously improved, so that you have no problems during the installation.

If you have feedback, criticism, or change requests for us, write us best an e-mail to info@vadpro.com

General Notes

The display is a very sensitive device. You should act with extreme caution here. Any strong pressure on the housing or the display itself should be avoided.
VADpro assumes no liability for this conversion or for any damage during the conversion or during operation. The instructions have been prepared to the best of our knowledge and belief.

The conversion time is about 1.5h for an experienced mechanic.
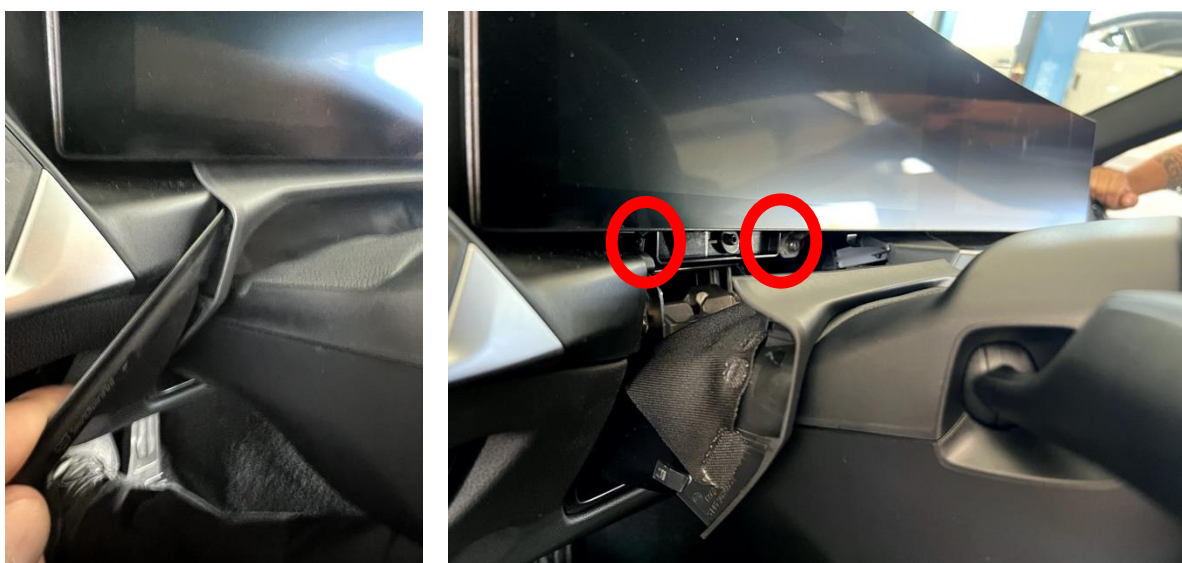
Tools needed

- Torx TX20 screwdriver

- Small flat slotted screwdriver

- Approx. 50cm wire

- Assembly tool (sold separately)

- Pliers for crimping connectors

- 10mm nut with ratchet

1) Prepare the interior

For vehicles with a classic speedometer, you can jump directly to chapter 1.2. For vehicles with curved display, please follow the steps below.

1.1) Curved display

Before you can remove the air vent on vehicles with curved display, the curved display must be removed and placed on the dashboard (cables do not need to be disconnected). To remove the Curved Display, the first step is to loosen the trim above the steering column. To do this, use a plastic lever tool at the point shown and lever the trim towards the driver. Then the two marked screws can be loosened.

The next step is the rear support on the passenger side. The trim must be levered off and then the two TX20 screws loosened (Attention: screws have different lengths!) Then the support can be removed.

Once these steps have been taken, the Curved Display can be pushed upwards out of the hooking as a complete unit. (Attention: Some force is necessary, be careful with the windscreen) This process is best carried out by 2 people.

The unhooked Curved Display can now be placed on the dashboard.
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1.2) Remove the vent

First, use the assembly tool to loosen the side paneling of the dashboard, and then you can lever around the nozzle and pull it toward you with a spirited jerk in the direction of the driver's seat.

Now you need to unlock the two connectors on the bottom of the nozzle to remove the nozzle.

2) Dismantle the fairing and expose the junction box

If you own a curved displayed car some of these steps might be unnecessary. Please ensure to read the whole instruction first.

Remove the upper cover of the driver's and passenger's footwells. To do this, turn the two holders 90° and then fold the cover down. Disconnect the footwell lighting and remove the cover.

You only need to remove the door cover on the passenger side. Carefully pull it up and remove it in the same way. If the clips get stuck in the body, remove them with pliers and clip them back into the trim.

Now carefully unclip the side cover on the right side of the passenger footwell and set it aside, exposing the junction box underneath the carpet.
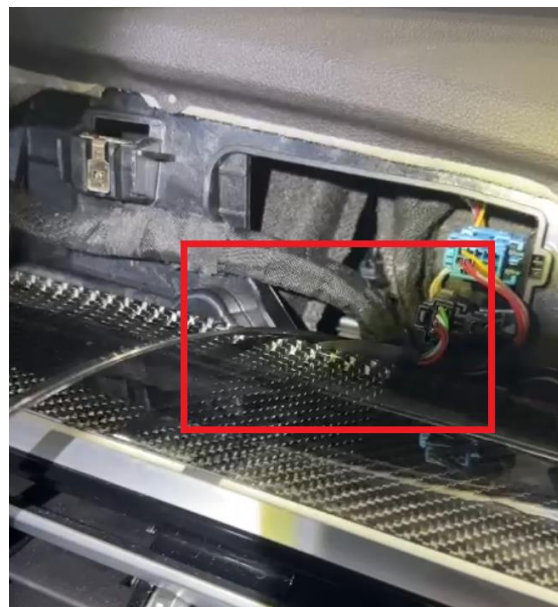

To get the cables from the driver's side to the passenger's side, we run a wire above the carpet over the center tunnel to the other side (the car from the pictures is a 2022 version). A flashlight is the best way to determine the ideal position in advance. For the curved display version, it is the best to lay the cables on top of the dash under the curved display. Once the wire is positioned, attach the end of the wire harness that is pinned into the junction box to the piece of wire that ends in the driver's footwell. Now you can carefully pull the wire back and use it to guide the cable from the driver to the passenger footwell.

When you are ready you can route the end with the molex connectors through the dashboard around the knee airbag up to the cutout of the air vent. The USB cable also ends here, the other end can be left in the dashboard so that you can quickly access the cable later by opening the side panel of the dashboard.

For the curved display version, it is the best to lay the cables on top of the dash under the curved display. The best routing method found for curved display versions is seen in the image below. Beneath the blue and black connectors there is a clear area where you can drop the cable down and it will exit in the passenger footwell. We suggest routing the cable starting from the device and working your way towards the passenger kick panel. Once the wire is found on the passenger panel, route it below the glovebox or behind the carpet to its end location and begin the wiring steps found in section 4.
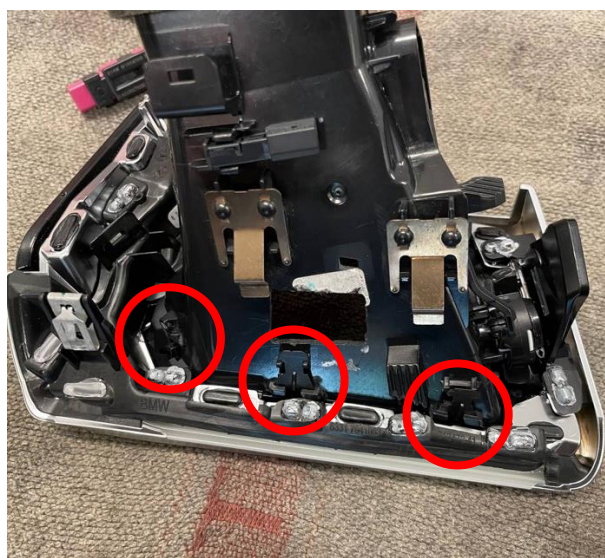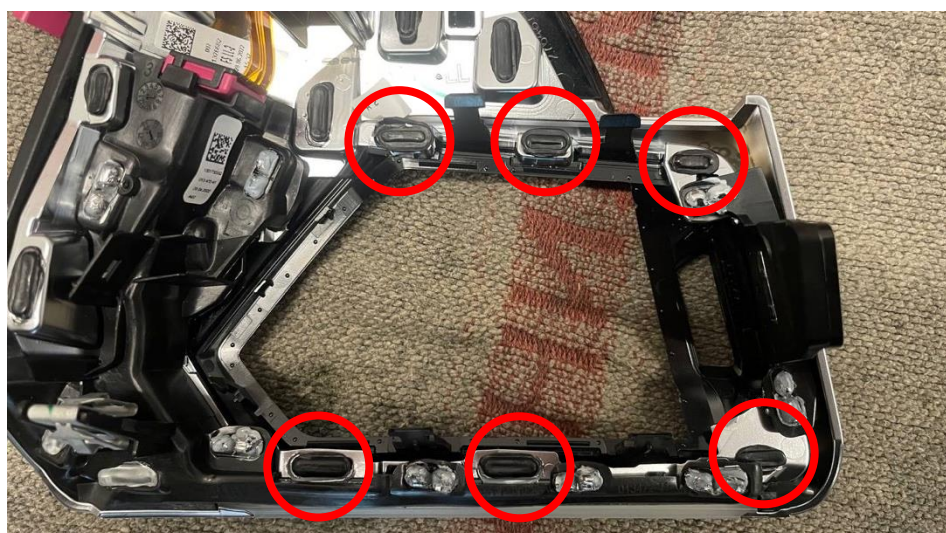
3) (Preparing the panel)

If you have purchased the complete panel for your vehicle, you can skip this step.

If you only bought the insert for the panel, you have to prepare your air vent before installation. First you clip the ventilation duct from the bezel. This is secured with 2.5 clips on the bottom and 2 clips on the top. Once these are unlocked and the connector is released, the duct can be pulled off.

Now you need to use a Dremel to open up the bezel at the following caulking points so that you can then mount the insert.
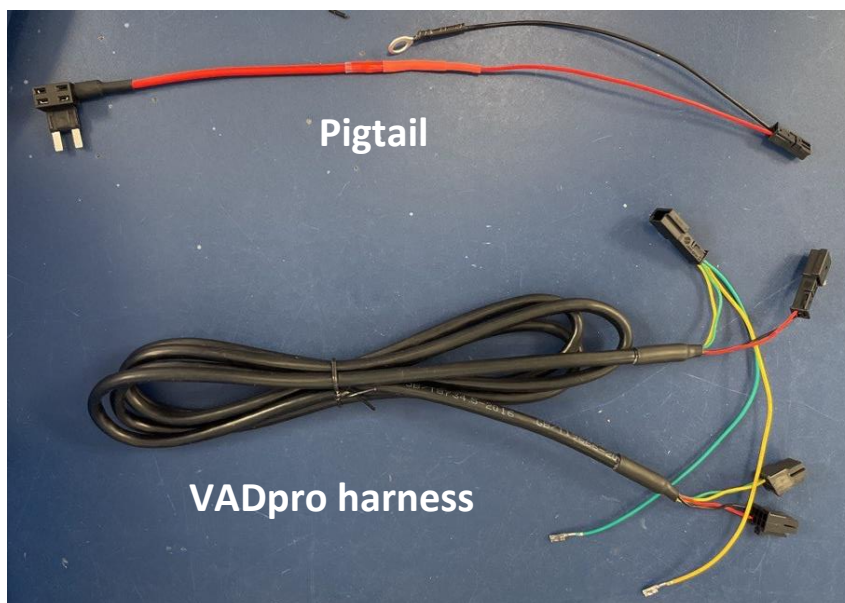

Once the caulking points are removed, you can push the plastic trim of the panel out towards the front.

If you were able to remove the original insert from your panel, you can now insert the VADpro insert starting from the former adjustment wheel and then clip it in towards the high-gloss trim.
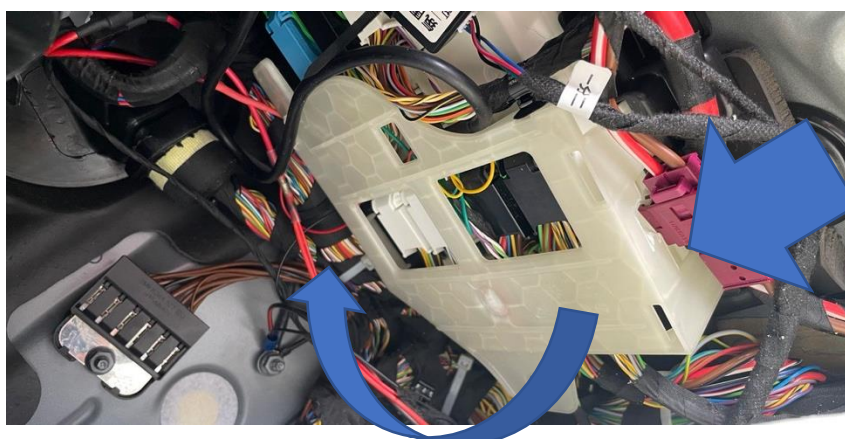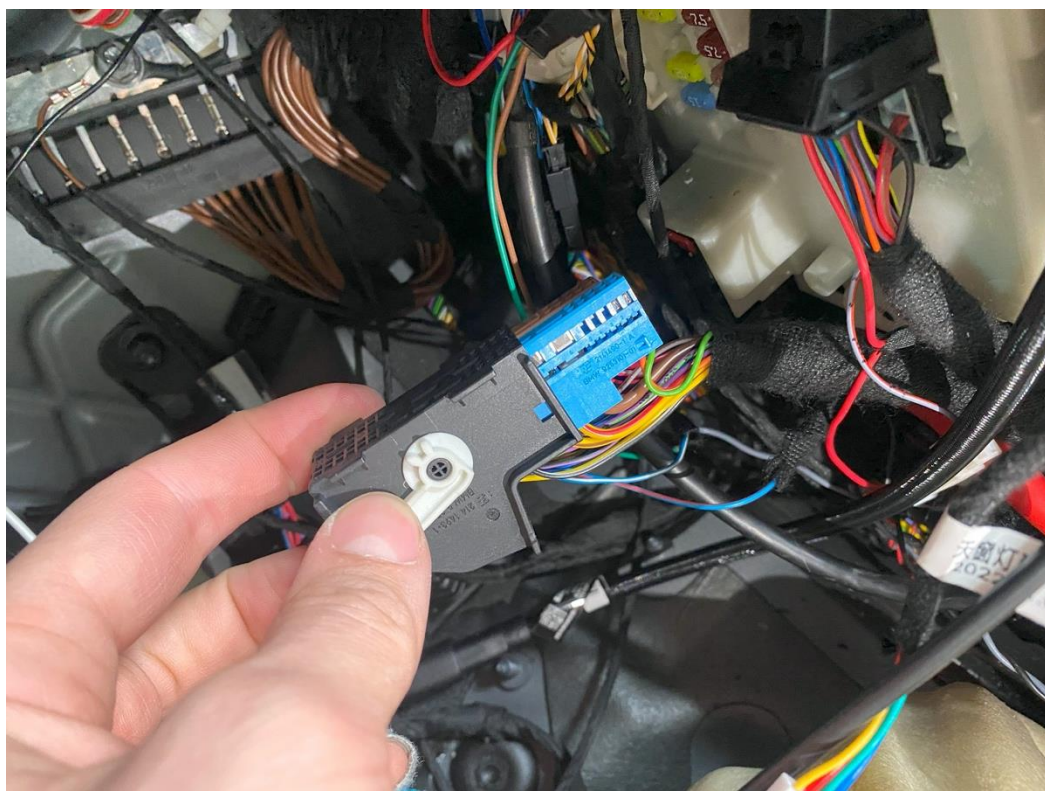
4) Connecting the cable

After you have laid the cable harness in the direction of the junction box, you must now pin the two loose wires. Can High (green) and Can Low (yellow) must both be pinned into connector 8.

Before you can get to the connector, you have to remove the cover over the junction box. This is only clipped at the rear end and hooked behind at the front end. As soon as you have released the cover at the end, you can fold it away to the front.

To release the connector, push in the latching lug and flip the lever. When the lever is turned, the connector is lifted out of the board. Now you can use a fine screwdriver to release the latch on both sides of the pin carriers and push the pin carriers out of the housing.
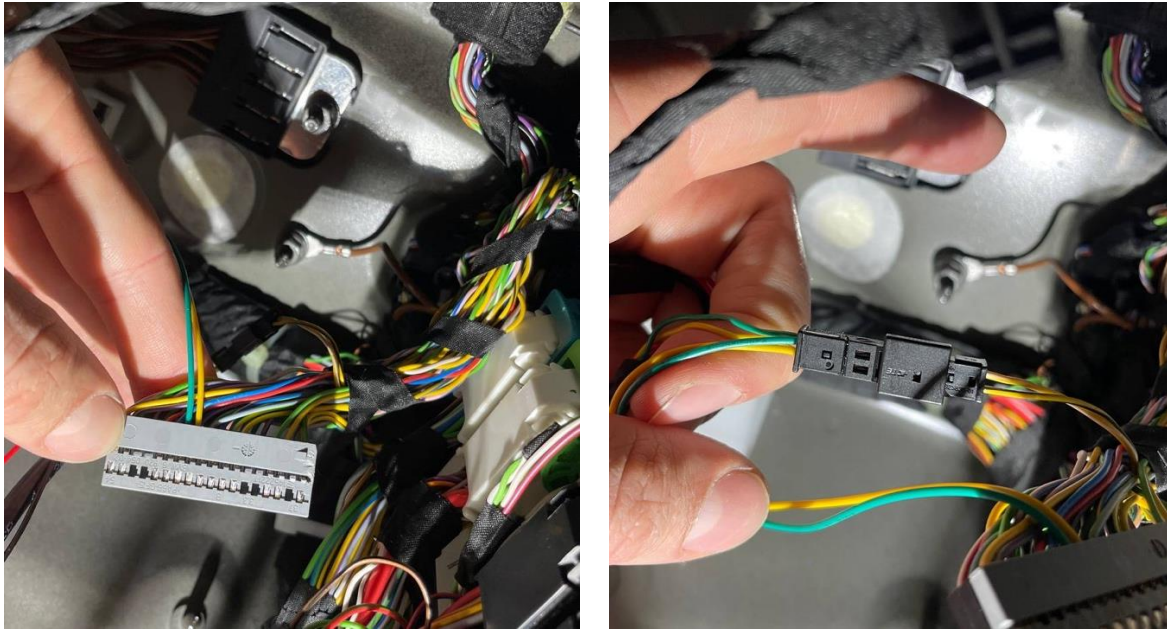
A yellow/white wire comes to pin 48 and a yellow/black wire comes to pin 47. If this is not the case, please send us a picture of your cable colors and the connector to coordinate the further procedure.
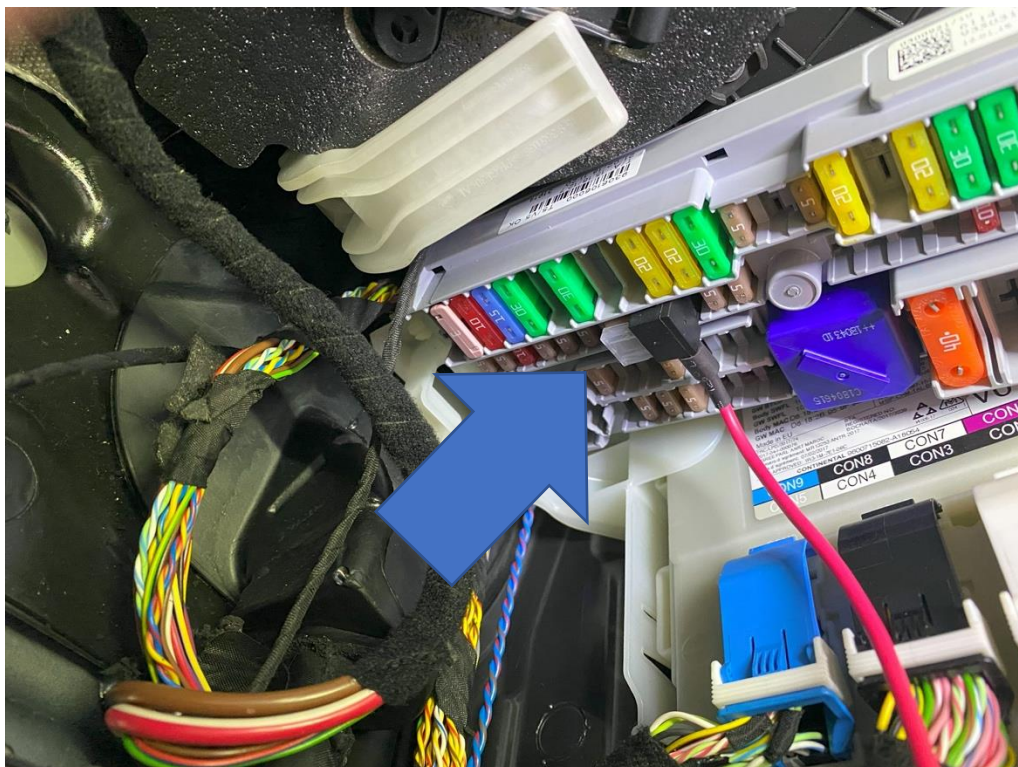
If the colors match, unpin the yellow/white wire at slot 48 (Can High) and pin the green wire of our harness to this slot. Pin the previously unpinned yellow/white wire to pin 2 of the single connector.

Now you continue with the yellow/black wire on slot 47 (Can Low). Pin it out again and plug it into pin 1 of the single connector. Plug the loose yellow wire of the VADpro harness into the vacated slot 47 of connector 8.
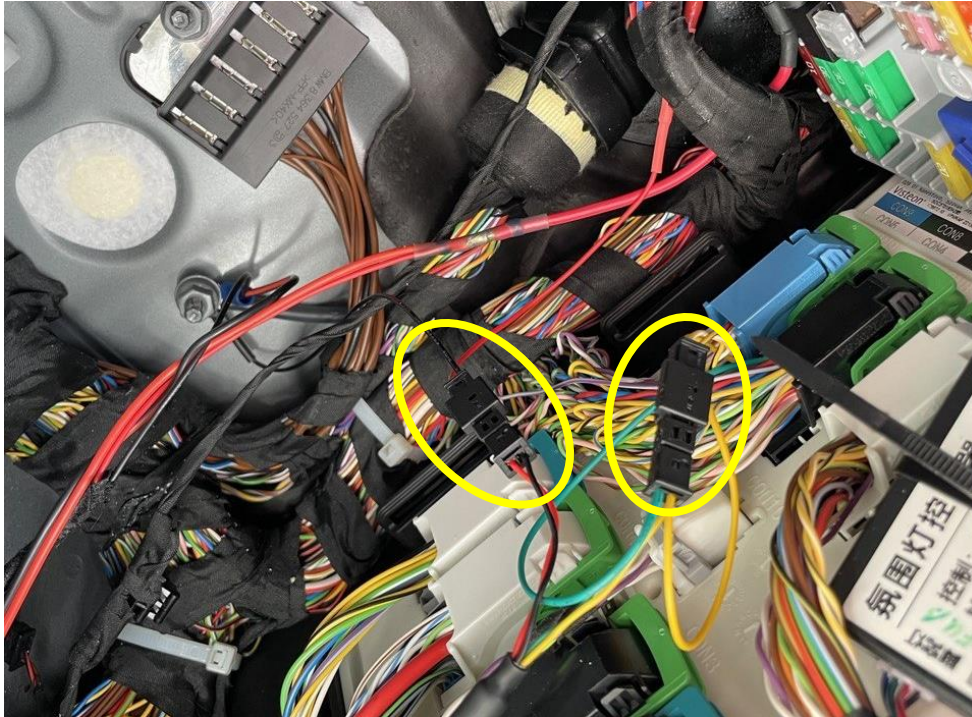The whole thing should look like this:

This completes the connection of Can High and Can Low. The next step is the connection of the ground and 12V ignition plus. The ground is connected to one of the ground points via a ring terminal. To loosen this, a 10mm nut is needed. After the ring cable lug is connected to the ground point, please tighten the nut again!

The 12V ignition plus is connected via our fuse adapter directly to the fuse box above the junction box.

Now you just have to connect the connector housing of the black and red wire to the pigtail that you previously plugged into the ground point and the fuse holder.

Now you only have to connect the USB and the VADpro harness to your display, clip in the bezel and check the display for function. If this is given you can complete the vehicle and you are done.

USB Tip: Some users have routed their USB cable down beside the OBDII port and used 2 sided Velcro to secure it to the plastic kick panel – If you leave some slack on this cable, the Velcro will keep it clean and hidden above and once you would like to connect, you are able to detach it from the Velcro and pull the slack out giving you easier access. A proper USB cable with data passthrough is easiest to extend this cable to your laptop for connection.

We hope you have as much fun with your VADpro display as we do. If you have any questions, please feel free to contact us by e-mail at info@vadpro.com.

If you are looking for technical support the manufacturer CANcheckd has a support group on Facebook where you can post your inquiries and share your experiences:

https://www.facebook.com/groups/CANcheckedSupport/