



BMW F32 435i Avin USA 10.25" android display Installation Guide



The BMW F series is an automotive work of art, but as technology changes there are always steps forward. This product allows for a big step forward in your display and technology even if your car is just a few years old.

Assumptions:

The example used for this DIY is a 2014 BMW 435i with the factory iDrive system with 8.8" screen.

Goal:

Install the Avin USA 10.25 android display into the car with the least amount of effort, and with full integration of the existing iDrive system.

A complete installation video is now available as well here:

[BMW DIY Guy Youtube installation video](#)

Disclaimer:

This process worked for me beautifully but that doesn't mean it will automatically do so for you. Work slowly and carefully, don't force anything and don't rush. For about an hour of total of time, you can make a dramatic technology change to your car. When in doubt, stop, step back and ask for help if something isn't working.

Lastly... do yourself a favor as you get in and out of your car multiple times: DO NOT put tools in your pocket. It's tempting, but one wrong move and you can punch a screwdriver through your seat. DON'T DO IT.

As you do follow this guide, this is just my attempt to get this work done. I have no doubt there are better/faster/easier ways of doing this effort. Feel free to provide feedback on the forums.

There is no guarantee or warrantee on this guide, and is provided best effort.

Tools:

Must have:

[Avin USA 10.25 android display system](#)

T-15 torx driver

Nice to have:

Plastic trim tool kit

USB male to female extension cable or USB male to micro male cable

3.5mm male to male extension cable

Shop towels

Lots of light and a clean space to work

[Music](#) (I recommend BB King, nothing like the blues while doing car work)

Patience

Contacts:

[Avin USA.com](#)

[BimmerPost F30 Audio Visual Forum](#)

[BMW DIY Guy Youtube installation video](#)

Installation

1. Grasp the center trim with both hands, above and below the center vents and gently rock it out and towards you. Be careful with the trim to the right (red in this case) and not break it as it comes out. Remove both connection plugs from the center of vent trim and set aside.



2. Remove the two exposed T-15 torx screws to free the screen, and gently pull up and turn to expose the cable connection. Slide a little extra cable up if needed to get it higher to turn.



3. Press in the small tab marked by the arrow, and gently remove the plug by pulling straight out. You can also use a trim tool to *gently* pry under the plug to help guide it out. Set the screen aside.



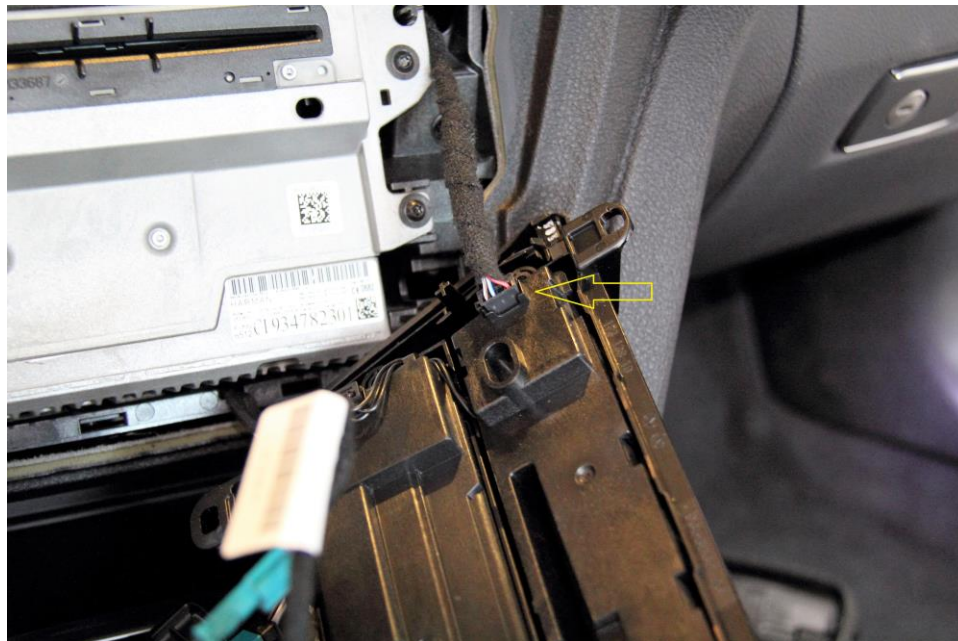
4. Remove the two indicated T-15 torx screws, and remove the dash cover below the AC controls. Remove the cover by gently pushing in and down just below the controls.



5. Remove the two indicated T-15 torx screws and set them safely aside. The AC/stereo trim piece will now gently lift away from the dash exposing the factory head unit.



6. Remove the single indicated plug, to free the AC/stereo piece and give extra room to work. Be gentle removing this plug, it can be very hard to remove in some cases. Set the piece aside.



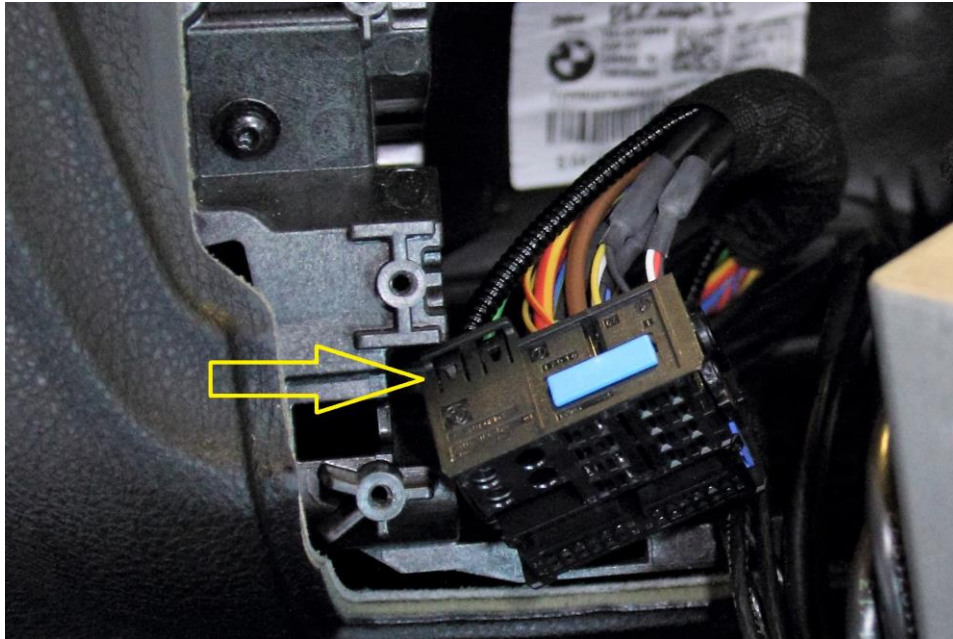
7. Remove the four indicated T-15 torx screws and set them safely aside. Gently slide the head unit forward to expose the cables on the rear. The unit is heavy, I recommend putting a shop towel over your lower dash to protect it.



8. Remove the large black canbus connector from the head unit. This plug is in the center of the head unit, and has a horse collar connector. Gently pull back the collar, and the plug will unlock and walk back out of the connection.



9. **Critical note:** The black and green optical cables need to be removed from the original plug and transferred to the provided adaptor or you will not have sound. Gently lift the indicated tab, and slide out the connector for the black and green optical cable. Install the optical cable in the matching position in the male plug of the provided adaptor cable. The plug is keyed and will only install one direction.



10. Insert the original male canbus cable into the female plug of the provided adaptor cable, and the male end into the head unit. **Important note:** I removed the cable wrap shown in stage 9 around the wiring bundle, to give additional length to the optical cable for the new adaptor.



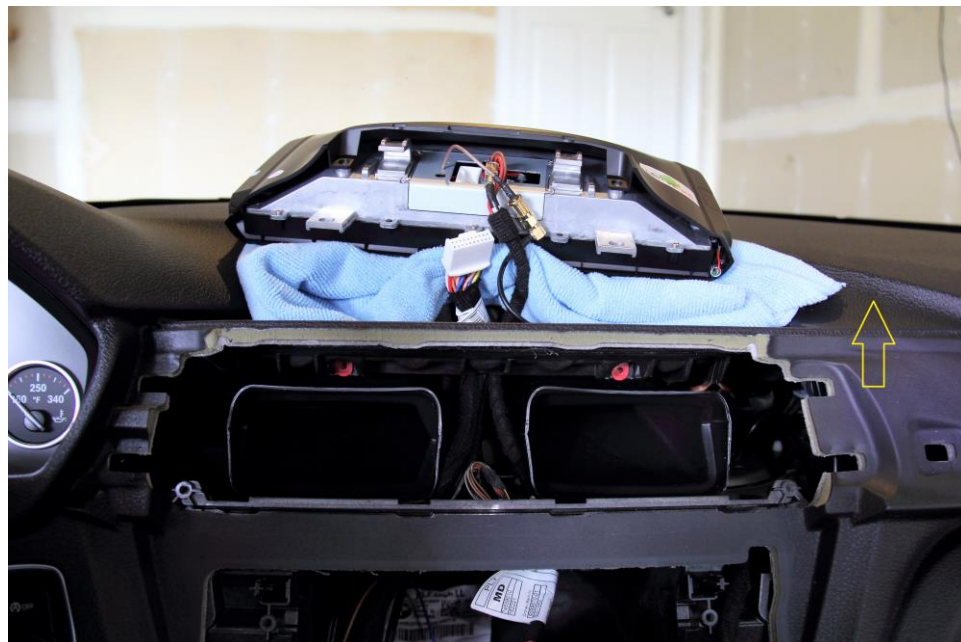
11. **Critical note:** This is the time to route any additional connections or desired cables to the wiring harness.

1. Suggested additions are the 3.5mm AUX cable and USB extension to the glove box. Route both cables up through the left-hand vent holes in the glovebox ceiling, and to the labeled ports on the adaptor cable.

Both cables should easily fit through the existing vent holes and then route to the connectors on the adaptor cable.

2. There are a significant number of other connections that are not covered in this guide now, including aftermarket backup camera, DVR and others.

12. Route the data cable (white plug) up from the adaptor cable and to the new screen. Also install the provided adhesive GPS antenna to the inside of the dash (yellow arrow), and route the cable to the screen. Connect the original purple data cable, the new white data cable and the screw on GPS antenna to the new screen. Make sure all the connections are solid and slowly rotate the screen to face forward, while sliding any excess cable down between the vents. Slide the screen down over the posts and fully into place.



13. Double check all connections, and then slide the head unit back into place. It is easier if you get as much of the new adaptor cable and plug down into the lower right as you can first, before sliding the unit back. Don't force it to move, and remove and rearrange cables as needed to allow smooth installation. Secure the head unit with the four T-15 torx when in place.



14. Double check your connections down from the screen, to make sure they are not wrapped up around the vents or pulled too tight. Plug the AC/stereo trim back in, and reinstall using the four T-15 torx screws. Also reinstall the cover below the AC/stereo controls. Secure the screen with the last two T-15 torx. Be careful to not overtighten the screws into the nylon sockets.



15. Connect both cables to the center trim, with both plugs being keyed so can only insert one way. Slowly press the trim piece back into place with gentle firm pressure. Also, gently press the trim all the way down to the right, until it is all fully in place.



16. Time to test!

Turn the car on and watch the system boot up. Check for any display issues, or bad connections in both the new functionality and iDrive setup. Also check to make sure you have proper sound connections as well (step 9) and correct if you don't.

This installation guide will not cover full configuration and functionality walk through of the new display, but that will be available here when it is ready:

[BMW DIY Guy Youtube Channel](#)

17. Assuming everything is working properly and looks as beautiful as it should, you are done!

Time to clean up and put all of your tools away.

Congratulations! All in all this isn't a hard project but just a little detailed if you haven't done this kind of work before. Once you see how easy it was, you will see having a pro or installer shop do this job is just crazy.

Congratulations again and enjoy the change in your car! For me, the upgrade was worth it, and not only has made the original displays better, but added new functionality too.

Written by Stefan Yotz, the BMW DIY Guy

4/2017

Unlimited and unrestricted usage granted to all

There is no warrantee or guarantee to this guide and is provided in all good faith and best effort.

Huge thanks to:

[Avin USA.com](http://AvinUSA.com)

[BimmerPost F30 Audio Visual Forum](#)