



DYNAVIN N7-E9X PRO INSTALL GUIDE

Disclaimer: *Although we encourage the DIY spirit, it is important to realize your limits. If you have doubts about your ability to install one of our products, please contact a professional installer. **You can locate a Dynavin installer near you on our website under DEALERS > FIND A DEALER/INSTALLER.** It is the sole responsibility of the purchaser and installer to employ the correct installation techniques and materials. Any damage resulting from improper installation or use is the sole responsibility of the purchaser as is confirming compatibility and any limitations that might be present in the particular installation. **IMPORTANT: Do not alter any components without first contacting Dynavin North America.**

There may be some variation between installs depending on what is currently in your car. What is covered here is generally universal to all Dynavin installs and should give you a good idea of what is involved.

Car: 2007 BMW 335

Compatibility: BMW 3 Series 2006-2013 (MOST adapter required for Logic7 equipped cars only)

Tools Required: Flat head screwdriver, Philips screwdriver, a plastic trim removal tool (a butter knife wrapped in electrical tape works well for this), electrical tape, a towel/microfiber towel. We recommend this or something like this:

[Dash Trim Removal Tool Set](#) or [Bavsound 31 Piece Disassembly Tool Kit](#)



Before you get started:

To avoid any accidental scratches while you are working, lay down a towel over your center console.



A. REMOVING THE OEM UNIT AND BRACKET:

1) Carefully use a screwdriver or [plastic dash trim removal tool](#) to pop out the trim around the HVAC controls. Be careful and use a towel if needed so you do not mar any of the plastic.



2) Unplug the HVAC controls. These plugs use a little rotating lever to push the plug out of the controls. If your car has the second row of buttons below the HVAC, unclip and unplug these as well.



3) Unclip the HVAC controls from its surrounding trim piece.



4) Take out the two screws under the stereo, pull out the unit and unplug it.



5) Take out the screws holding the radio bracket in the dash and pull the bracket out.



B. INSTALLING THE DYNAVIN, NEW BRACKET, AND ACCESSORIES:

6) Now you have a big hole in your dash. At this point you want to route your iPod/USB/AUX cables or whatever else you might be running in your particular install to wherever they need to go. The glove compartment is the obvious place to mount them but it is up to you. You can install them in the console, storage cubbies, ashtray, etc. You will also need to install the GPS antenna and external Bluetooth mic.

If your car has the second row of buttons, this is also the time when you would do the relocation of those to the console ashtray area using either the Dynavin button relocater (included which you'll find underneath the radio in the box) OR the [Metra 98-9306 storage tray kit](#) pictured below. Basically you pull up the top console trim, take out the ashtray and replace it with the button relocation solution of your choice.



[Metra HVAC Relocation Pocket](#)

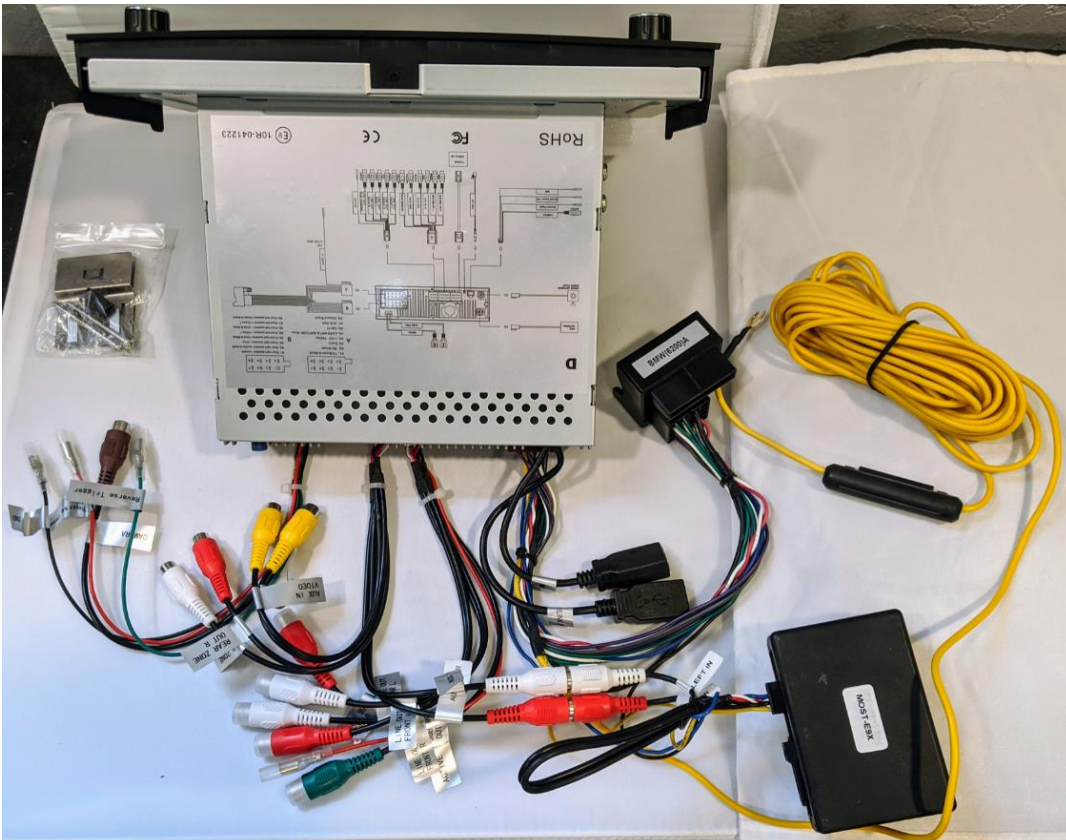
7) Take the HVAC controls and file off the corner of the tabs that stick out. This is not a critical part of the unit and allows the HVAC controls to fit correctly in the new trim piece as part of the Dynavin. Holding the HVAC controls in position next to the Dynavin should make it clear what needs to be shaved.



8) Snap the controls into the Dynavin. Install the metal bottom clips onto the Dynavin if they are not already in place.



9) Here is a picture of the RCA harnesses, main wire harness and its connections on the E9X model. In this pic you can see the MOST adapter (sold separately; required only for E9X cars with Logic7 fiber optic audio) at the bottom right which plugs into the main wire harness, the RCA outputs from the head unit, and once in the car, into the MOST fiber optic cable. To the upper right is the main plug [labeled "BMW(6200)A"] that plugs into the OEM radio plug and next to it is the yellow constant power wire.



- GPS antenna (magnetic, install above metal crossmember inside dash or to the right of the center channel speaker for Logic7 cars)
- External microphone (install on top or near the steering wheel column, left pillar, or above rear-view mirror. Test what works best for you.) Must be installed. Dynavin radio does not integrate with factory microphones
- SiriusXM adapter cable for use with the SXV300 Tuner only (must set the Dynavin "Region" to the USA flag in the System Menu for SiriusXM radio functionality)
- iGO Primo navigation software (must be inserted in the NAV card slot to function)
- iLink Pro dongle for Apple CarPlay and Android Auto functionality
- Two 3 ft. USB extensions for the two USB connections on the back of the radio

CONNECTING TO CONSTANT POWER VIA BATTERY OR FUSE BOX

10) Dynavin has the harness set up with enough wire to reach the battery and the brief instructions that come with the unit say to connect to the battery. Of course any constant power circuit available in the fuse compartment will do the trick but finding that circuit in an E90 can be a challenge!

There are multiple fuse compartment configurations so what works for one person may not work for another and the E90 is tricky as it "goes to sleep" after 20 minutes so most of the circuits that look like constant power actually are not. This will result in the unit losing some of its memory after 20-30 minutes. Finding a constant power source takes some trial and error. Looking at the fuse chart should help. But keep in mind that by the time you "trial and error" a few cycles of the car going to sleep, you could have easily run the power wire to the battery in half the time. So it is up to you how you do it just make sure it has constant power and you are good to go. More on this here: <http://www.e90post.com/forums/showthread.php?t=809672>.

Here is a picture of the location that worked in this car (2007 335). Per the fuse chart it corresponds to position 70, an engine related fuse location although this fuse box has nothing in that slot. Depending on how you connect it in the fuse box you may need to add an inline fuse to protect the power wire in the case of a short. (see below)



INSTALLING THE GPS ANTENNA:

Uncoil and run the GPS antenna lead up to the center dash location (where the center channel speaker is on a Logic7 equipped car). The best place to mount the GPS antenna is on top of the metal crossbar inside the dash, under the vent/speaker assembly. Since this car does have a center channel speaker I have the antenna pushed off to the passenger side so it is not under the speaker.

INSTALLING THE MICROPHONE:

For the external microphone, mount it on top or near the steering wheel column, left pillar, or above the rear-view mirror. Test what works best for you. It must be installed as the Dynavin radio does not integrate with factory microphones. In this car I ran it up the pillar and to the OEM location next to the sunroof controls.



I used a twist tie (that was tying up the mic cord) wrapped around the mic to hold it in place. I loosened the boot where the wiring runs to the mirror and pulled the wire tie through the gap, pushed the boot back into place and the mic was secure. The wire for the mic just comes out of the front of the headliner. From the driver's seat you can barely see it, and even if you do it looks like part of the mirror mount.



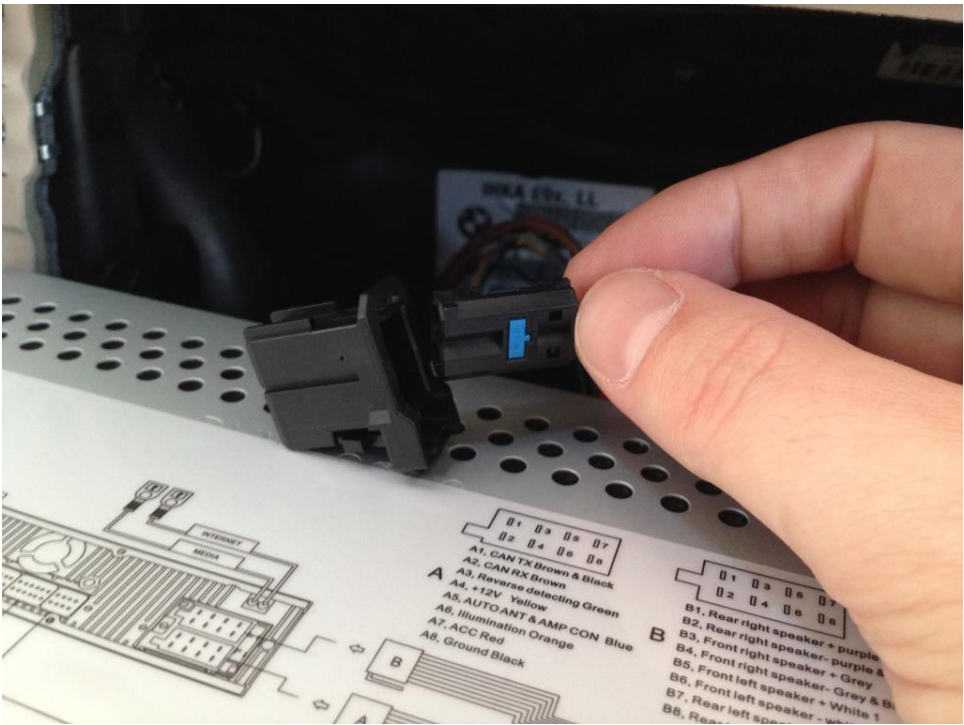
Plug in the Dynavin's main wire harness.



FOR Logic7 AUDIO SYSTEM WITH THE FIBER OPTIC CABLES

You will need to unclip the fiber optic cables from the stock stereo plug and plug them into the MOST cable end adapter and then that into the interface box. Plug the box into the Dynavin's wire harness and plug the RCA cables coming from the MOST box plug into the FRONT RCA OUTPUTS from the Dynavin.





SIDE NOTE: HOW TO DETERMINE WHETHER YOU HAVE LOGIC7 OR NOT

These pictures should help you determine whether or not you have the Logic7 audio system. (Taken from looking down through windshield at the top of the dash).

The Logic7 system has a center channel speaker on the top of the dash between the vents like so:



Cars without the Logic7 system do not have this speaker:



INSTALL CONTINUED

Plug in the RCA input/output harnesses if you are using them and the USB cables.



Slide everything partially back into the dash and at this point turn everything on and make sure everything is up and running including the HVAC before proceeding. If everything checks out, slide it the rest of the way back clipping the bottom spring clips into place and inserting the two retaining screws into place. You MUST install the metal spring clips for the unit to fit correctly on the bottom; they hold the bottom of the unit back flush in the dash opening.



DONE!



ADJUSTING FIT (depending on model)

When I first pushed the unit back into place, the bottom (the part by the HVAC controls) would not go all the way back into place, it was sticking out maybe 1/8". I started looking around and it appears the HVAC controls were a little too deep and they were hitting part of the dash behind them which kept the bottom from going all the way back and being flush. Specifically, this little ear inside the dash where the OEM radio bracket mounts was in the way.



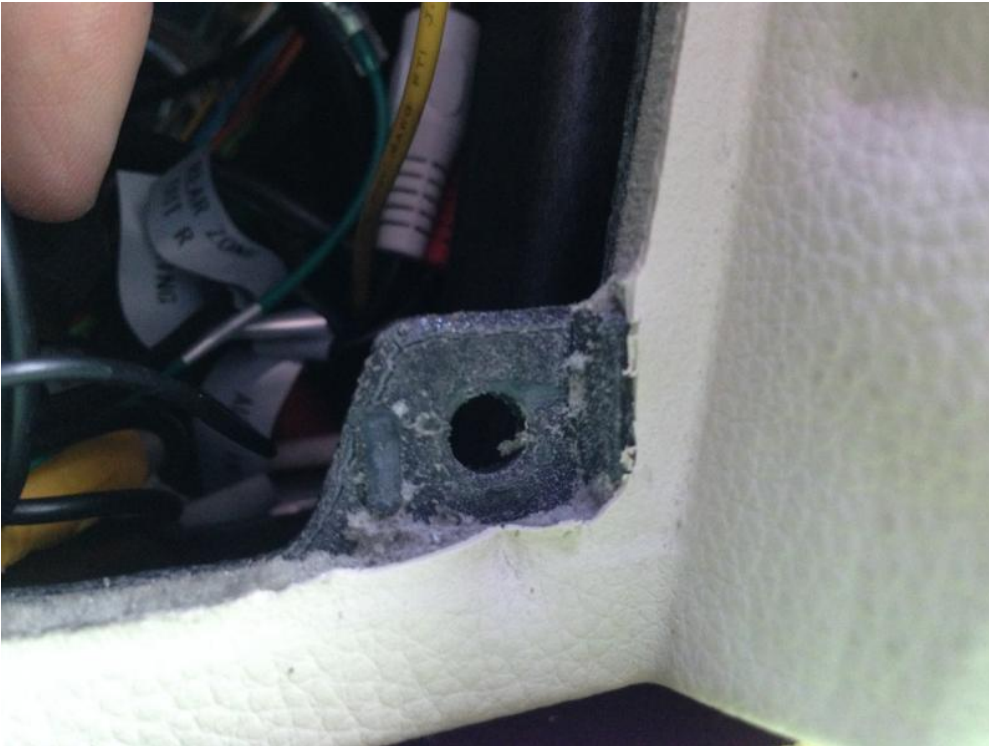
Closer inspection revealed that the part was upholstered with foam and vinyl and had a plastic nub on it. Both of these factors added more than 1/8" of thickness to the ear and was keeping the Dynavin from going all the way in. So I simply trimmed the upholstery and foam off with a utility knife.



Then I snipped off the plastic nub with some diagonal cutters and cleaned it up with the utility knife.



As you can see the ear is still there but less thick which is ideal for mounting.



Doing the same on the left side allows everything to slide in all the way back into the dash and the fit is perfect!



For the latest firmware updates, please visit dynavinnorthamerica.com/pages/firmware-updates or scan this QR code →



For the backup camera install overview, visit dynavinnorthamerica.com/pages/faq-links#q2k

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For questions/install help, contact us during business hours Monday-Friday at 559-486-4047 or by email at support@dynavinnorthamerica.com anytime.