

Stage 1 Audio Upgrade (BMW Speakers) Installation Instructions for BMW Z3, M Roadster '96-'02

Rev. 2.0

Tools Required:

(All the below are readily available at your local auto parts store)

- Phillips Head Screwdriver
- Panel Removal Tool
- Torx T20 screwdriver
- Torx T30 screwdriver
- Small, Straight Pick Tool
- Small, Flat Head Screwdriver
- 8mm Socket Wrench
- Hot Glue Gun w/Glue Sticks

Notes before you begin:

• Reset your bass and treble settings to flat before you begin. Your new speakers will respond differently than factory, so we want a "clean slate" to start from.

-Keep in mind that on your new speakers that the positive terminal is on the right hand side as you look down onto the speaker with the magnet facing upward.

If your speakers do have the screw down terminals, we will need to cut off the factory spade terminals and strip back ¼" of the wiring insulation so that the exposed copper wiring can slide down into the screw down terminals to ensure a snug connection.

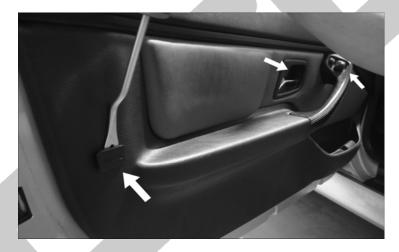
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Front Door Speakers

Start by orienting yourself with the door panel. We recommend starting on the passenger side, as it's always better to goof up on the door less often used.



Notice the airbag plug located toward the rear of the door panel (not present on all vehicles). Remove this using either a small, flat head screwdriver, or a specific panel removal tool. This will reveal a Torx T20 bolt. Remove this.

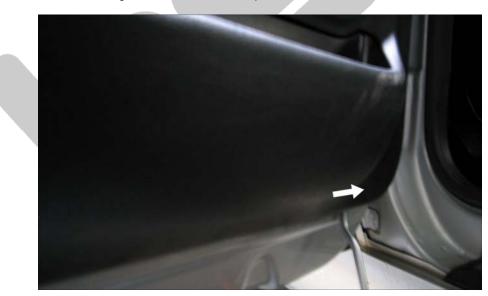
Now, locate the plastic trim that surrounds the door handle. Slide this toward the front of the vehicle. This can be a bit tricky, but solid pressure will pop it right off. We've found that heating the ring with a heat gun or hair dryer sometimes helps. Be careful if you opt to do this... Don't keep the gun pointed in one direction too long. You can burn the leather.

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Next, you'll want to carefully pry out the side mirror control switch (blank panel on passenger side). Use a small flat head screwdriver here as well. You'll want to pry around the outside edge, starting on the inside edge closest to the handle. Unplug the control switch. This will reveal a second Torx T20 bolt. Remove this.



You'll now want to start prying around the outside edges of the door panel using a specific panel removal tool. We recommend starting on the underside of the panel towards the front of the car.

Once these are free, you'll lift upward on the door panel, freeing it from the door. To do this, start with your hands toward the front of the panel, as seen in the photo.

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Now, unplug the two speakers, and take the door panel over to your workspace. We're only replacing the tweeter, which is the smaller of the two speakers located towards the front of the door panel.

Start by prying out the factory tweeter using a straight pick. We have seen some Z3's with tweeters that are screwed into the grille: If your vehicle is one of these, simply remove the Torx T10 screws that secure the tweeter in place.



Once removed, attach the new tweeter to the same location using your hot glue gun. Center the tweeter over the hole, and apply a ring of glue around the outer edge securing it to the door panel.

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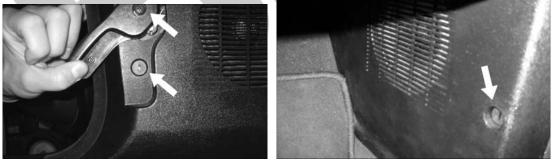


Wiring:

Just plug your new tweeter directly into the plug that you removed the factory tweeter from.

Kick Panel Speakers:

These are pretty easy. You'll remove the hood latch on the driver side by removing the Philips head screw attaching it to the pivot point.



(Driver Side)

(Passenger Side)

This will reveal a flat head plastic anchor. Turn the anchor 90 degrees. This same anchor is also exposed on the passenger side.

You'll notice a separate panel above the pedals that is attached using 3 of these very same plastic anchors. Remove these three, and the panel will free itself.

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Now, carefully proceed to remove the kick panel. See arrows in photo for directional pulling and description below photo for how to proceed.



Pry out the rear edge that attaches itself underneath the door sill. Once you've done this, you can work out the entire kick panel with relative ease. Be careful. This plastic is notoriously brittle. The inside of the dead pedal is attached with a small hook into the carpet, and this is where most people get themselves tied up. Remember this piece, and you'll be done in no time.

Once your kick panel is removed, you can remove the factory speaker by unbolting the four 8mm bolts that attach it to the firewall. Attach your new speaker as show below:



Insert wires into screw down terminals

The new speaker bolts right back in.

Wiring:

The factory wires will have terminals mounted on them. The larger terminal is positive, while the smaller terminal is negative. Depending on the front speakers, we may need to cut these off. See page 1 for clarification.

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Rear Speakers:

There are two types of rear speaker in the Roadsters.

- 1. Small, approximately 3" round grill that seemingly "floats" in the rear panel.
- 2. Larger grill that appears to be a part of a separate panel within the rear panel.

Type 1:

Note the rectangular panel located directly above the rear speakers. This will need to be pried out using a small, flat head screwdriver.



After removing the panel, you'll need to reach down into the hole and unscrew the ring that attaches to the rear of the assembly. This can be tricky, and it helps to have smaller hands. ⁽ⁱ⁾ If you can't physically fit your hand down into the hole have a neighbor or friend come over and give you a hand.





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Note Ring inside of housing. This is what we're unscrewing from the rear of the midrange.

1. Notice the two pairs of tabs attached to the plastic plate with the speaker plug attached to it toward the rear of the assembly. You'll need to pry them inward and upward to free up the plate and subsequently the speaker housed inside of the assembly.



2. There are two more opposing tabs located closer to the front of the assembly. Pry these tabs outward, and the speaker will be free at this point.



Now drop the new midrange into the factory housing, and it will snap into place. As a precaution, we recommend using a small amount of hot glue to further secure the speaker into place.

Wiring:

In most instances, the rear midranges are going to be plug and play. If not, the wire colors below will assist you in making the appropriate connections.

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The factory wires are as follows: Green/Black Stripe-Positive (+) Green-Negative (-)

connects to connects to

connects to

Wires on new midranges Red (+) Black (-)

Type 2:

Simply pry off the outer perimeter of the speaker grille using your fingers. If your fingers aren't sufficient, **CAREFULLY** use a small flat head screwdriver. The plastic is again very brittle.

The speakers are attached using (4) Philips head screws. Remove the factory speaker and install your new speaker in the same location.

Wiring:

In most instances, the rear midranges are going to be plug and play. If not, the wire colors below will assist you in making the appropriate connections.

The factory wires are as follows: Green/Black Stripe-Positive (+) Green-Negative (-) Wires on new midranges Red (+) Black (-)

Once you've completed both sides of the vehicle, you're done!