

M7 R53 Rear Diffuser Tunnels Installation Guidelines



PLEASE READ INSTALLATION MANUAL BEFORE INSTALLING PRODUCT.

From the factory, the R53 has a dual muffler exhaust system. In order for you to install the M7 Rear Diffuser Tunnels on your vehicle, your exhaust must be modified to a single, center mounted straight-back exhaust similar to the one found on the R56.

PLEASE NOTE: The M7 Rear Lower Diffuser Tunnels are meant to be painted (unless fitted with the Carbon Fiber option). It is best to follow this installation guide BEFORE getting your tunnels prepped and painted as there may be marking and cutting involved that may damage paint jobs on the tunnels.

If you have already painted your tunnels or if you have the Carbon Fiber option, we suggest the use of painter's tape to cover any part of the tunnels that may be subject to cutting or marking in order to protect the finish.

Begin by jacking up the rear end (be sure to safely secure the vehicle with jack stands and wheel chocks). Remove the rear plastic bumper cover and the rear most heat shield from under the car. The heat shield will have to be cut to easily expose the mounting posts found on either side of the vehicle (see image for reference). Essentially, this means cutting the rear half off of the heat shield. The heat shield can be reinstated after cutting is complete.



The two large front brackets attach to these posts as shown in the image above. A step drill may be required to open up the mounting points. Install the brackets and tighten down the nuts to 25 ft-lbs each.

Using other people to help, place the tunnels up to the brackets as though they were installed. Measure from either end of the car and make sure the tips of the diffuser are square with each other. Remember to leave room between the tunnels for the middle wing. When the location is right, take a marker and trace the outline of the front brackets onto the tunnel.

Remove the brackets from the car and place them on top of the tunnels. Mark out where to drill through holes on the tunnel and drill a 1/4" hole for each marking.

Reinstall the brackets. Install the tunnels to these brackets with the M6 bolts provided and use jack stands to hold up the rear of the tunnels. Take the L-Shaped bumper brackets and place them on the inside of the metal bumper on top of the tunnels. Make sure the brackets are evenly spaced (2 per tunnel) to provide adequate connection to the tunnels.



When the correct location has been determined, use a marker to trace the outline of the brackets on the tunnels. Mark out where the brackets sit on the bumper. Mark the bumper level on the brackets. You should be able to drill at any point above this line. Looking at the bumper from the side, however, shows that some parts of the bumper are thicker than others (keep that in mind when deciding where to drill).

Remove the tunnels from the car. Place the L-shaped brackets on top of the tunnel where you traced the outline. Mark out where the holes align with the tunnels. Use a ¼" drill bit to drill a through hole in the tunnel at the spot you marked.

Decide where you want to drill through the bracket to attach to the bumper. Again, use a ¼" drill bit to make a through hole in the bracket.

Remove the metal bumper from the car. Place the brackets over the trace marks on the bumper. Mark out where the through holes align with the bumper. Use a 25/64" or 10mm drill bit to prepare for the rivet nut installation. When all the holes are drilled, use a rivet nut installation tool to install the rivet nuts into the bumper.

Reinstall the bumper and tighten down the bolts to 25 ft-lbs.

Install the bumper brackets with the M6 bolts provided. Install the tunnels onto the brackets. Take the middle wing and mark out where it meets each tunnel. Remove the tunnels and drill 3/8" holes to accommodate the wing bolts.

Re-Install the brackets, all tunnels, and the middle wing. Use the provided M6 hardware to install the front and rear tunnels to the car. Install the wing using the provided M8 hardware.

Shape the rear plastic bumper cover. Use a Dremel tool (or similar tool) with a plastic cutting wheel to cut out the lower portion of the rear apron in the shape of the two tunnels. Patience and marking out your path will ensure a good fit. Be sure to use painter's tape to mark out your cutting path and to protect the rest of the apron as you cut.

Re-Install the rear apron. Installation is reverse of removal.

Final work. The M7 Rear Lower Diffuser Tunnels are meant to be painted (unless fitted with the Carbon Fiber option). The tunnels can now be easily removed to be prepped and painted.

This completes the installation of the M7 R56 Rear Diffuser Tunnels.

For further technical support, please e-mail techsupport@m7tuning.com or call our office at 704-663-0094 Monday – Friday, 9:00am – 4:pm EST.

Thank you again for your purchase – we appreciate your business.

Enjoy the Ride,

Team M7