



## Interior Sound Proofing Upgrade, Roadster 2.5

**Classification:** Parts Bulletin**Section/Group:** 10 - Body**Country/Region:** Global**Year:** All**Model:** Roadster**Version:** 2.5

**Bulletin Classification:** *Parts, this bulletin is issued to address various parts related topics regarding the operation of Tesla vehicles that include part changes, supersession, and authorized modifications.*

*This Service Bulletin supersedes SB-12-10-005 R1, dated 19-Nov-12. The content changes are identified with double vertical lines and italics. Please discard the previous Service Bulletin and replace with this one.*

Version 2.5 Roadsters were delivered from the factory with 1<sup>st</sup> stage sound reduction material installed. 2<sup>nd</sup> stage sound proofing insulation is available to increase customer satisfaction by reducing road noise and temperature variations in the passenger compartment.

Customers can order a service center-installed 2<sup>nd</sup> stage sound proofing kit (Figure 1), which consists of the following products:

- **Dynamat:** A vibration and sound absorber with metallic material on one side and adhesive on the other. The technician will cut the material to fit and apply it to the floor, rear bulkhead, and door shells.
- **Dynaliner:** Foam thermal and sound insulation with adhesive on one side. The technician will cut the material to fit and apply it on top of the Dynamat.
- **Door seal kit:** A set of rubber weatherstrips to reduce wind noise coming from the door areas. These also keep dirt and debris from building up in the door sill area.

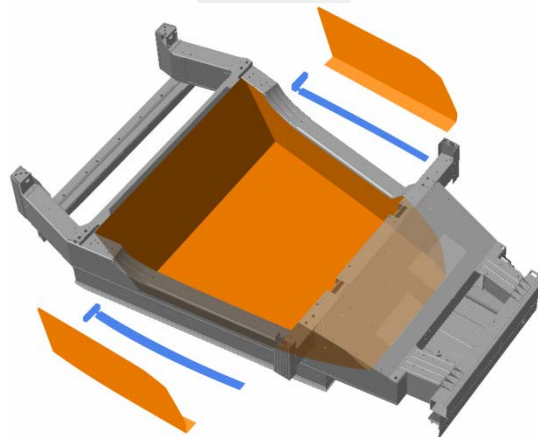


Figure 1

**NOTE:** This bulletin provides information for Roadster 2.5 only. Refer to SB-12-10-002 for Roadster 1.5 and 2.0 sound proofing installations.

## Dynamat Installation

1. Remove the seats, center console, rocker trim panels, and B post trim panels. Refer to the Service Manual for specific removal instructions.
2. Remove the carpet from the floor pan, side rocker panel sills, and foot well areas (Figure 2).

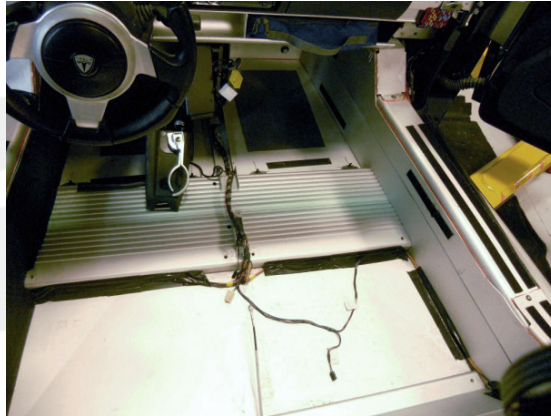


Figure 2

3. The Dynamat and vehicle body should be at room temperature. Heating the Dynamat is not necessary. Thoroughly clean the mounting surfaces with rubbing alcohol or a quick-drying, residue-free solvent. Remove all dirt, grease, oil, wax, and moisture to ensure a permanent bond between the Dynamat and the mounting surface.
4. Using a razor knife, tin snips, or scissors, cut the Dynamat sheet to the proper shape and size (you may find a cardboard or paper template helpful.)
5. Remove the liner material from the back of the Dynamat.

6. Apply the Dynamat to the floor pan. Start at one side of the material and work your way across. This will maximize contouring and promote the best adhesion and performance. Use a roller tool to work the Dynamat into all contours of the panel (Figure 3).

**NOTE:** The liner material can be kept for use as a template to cut the Dynaliner or for installations in other Roadsters in the future.

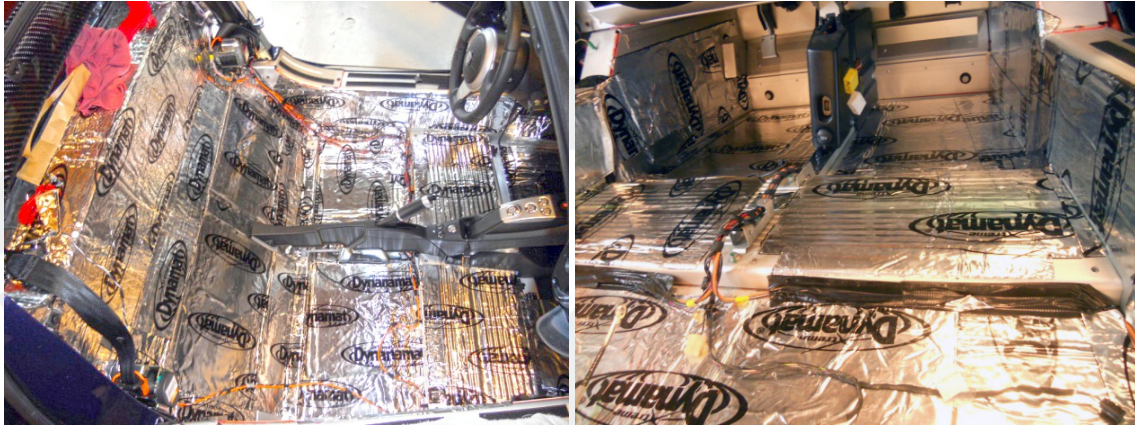


Figure 3

7. Using a razor knife, puncture any air pockets that may have formed between the panel and the Dynamat. Work the air out with the roller tool. Eliminating air pockets ensures maximum sound suppression.
8. Repeat the above steps to install Dynamat material on the inner rocker panels, foot well areas, and the panel behind the seats.
9. Remove the left and right side door trim panels and the plastic water protection sheets.
10. Thoroughly clean the mounting surface with rubbing alcohol or a quick-drying, residue-free solvent. Remove all dirt, grease, oil, wax, and moisture to ensure a permanent bond between the Dynamat and the insides of the door shells.

11. Install Dynamat inside the doors on the vertical surfaces (Figure 4).



Figure 4

12. Install Dynamat inside the doors on the horizontal surfaces (Figure 5).



Figure 5

## Dynaliner Installation

The Dynaliner foam is placed directly over the Dynamat insulation for added sound suppression and thermal insulation.

1. Install the Dynaliner foam, following the same procedure as used for the Dynamat. Install Dynaliner on the floor pan, kick panels, inner rocker panels, and panel behind the rear seats (Figure 6).



Figure 6

2. Add the Dynaliner covering to both the horizontal and vertical surfaces of the doors (Figure 7).



Figure 7

3. Reinstall the carpet, starting from the front floorboard area. The rear carpet will overlap the front carpet sections.
4. Reinstall the door water protection sheets, door trim panels, and interior components.



## Door Weatherstrip Installation

The door sealing kit includes:

- Long (890mm) Weatherstrips (Qty. 2)
- Short (127mm) Weatherstrips (Qty. 2)
- Push-Type Retainers (Qty. 12)

1. Clean the undersides of both doors thoroughly, using rubbing alcohol or a quick-drying, residue-free solvent. Remove all dirt, grease, oil, wax, and moisture.
2. Close the driver's door. Test fit the long weatherstrip. The long weatherstrip will attach to the bottom of the door and butt up against the vertical edge of the rocker panel to better seal the lower gap (Figure 8).



Figure 8

3. With the door closed, remove the backing liner from the long weatherstrip and attach it to the bottom of the door, making sure that the vertical edge of the weatherstrip fully contacts the vertical edge of the rocker panel.

4. Open the door. Using an 8 mm drill bit, drill 6 holes through the weatherstrip and the bottom of the door, as shown in Figure 8. Drill 1 hole on each side of the protrusion in the middle of the door. Drill 1 hole on each end of the weatherstrip. Space the remaining 2 holes evenly between the protrusion and the ends of the doors (Figure 9).
5. Install a push-type retainer in each hole.



Figure 9

6. Remove the backing liner from the short weatherstrip and attach the weatherstrip to the lower rear edge of the door. Place the short weatherstrip so that it touches the rear edge of the long weatherstrip (Figure 10).



Figure 10

7. Repeat the procedure on the other door.

	<b>Affected Parts</b>	1018488-00-A	NVH Sheet, Aftermarket Upgrade, Dbm Xtrm (Qty. 9 Required)	
		1018489-00-A	NVH Liner, Aftermarket Upgrade, Dynaliner ¼" / 6 mm (Qty. 2 Required)	
		1018298-00-A	Roadster Under Door Env. Sealing Kit	
		*KIT-SB1210005-01	NVH Kit (2 <sup>nd</sup> Stage)	

\*The complete NVH Kit, KIT-SB1210005-01, is for DMS part entry purposes only. Order components separately, as listed above.

**Warranty/DMS Coding:**

Description	Complaint	Cause	Correction
Installation of 2 <sup>nd</sup> Stage NVH Kit, Roadster 2.5	A091	B053	S011210005