Light Harmonic TAS Amplifier for Model 3/Y Installation Instructions

This LH TAS Amplifier has 8 channels output. It is designed to power up Model 3/Y
- Front Door Speakers (left/right)
- Subwoofer (dual coils)
- Front dashboard mid-ranges (left/right)
- Rear Doors Speakers (left/right)

Step 1. Prepare

Disconnect any charging cable.

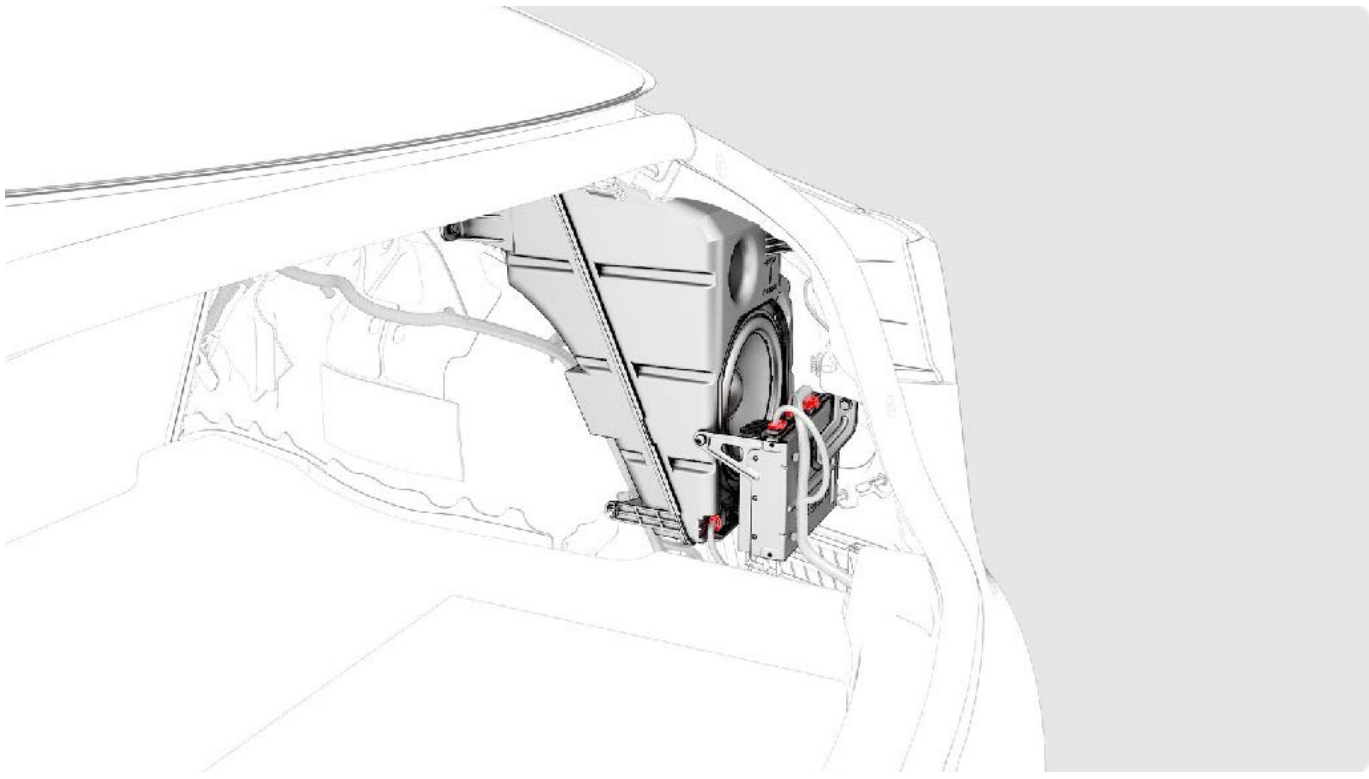
On the touchscreen, power off the climate control system, and wait at least 30 seconds for the climate control system to completely shut down.

Make sure the vehicle is in Park.

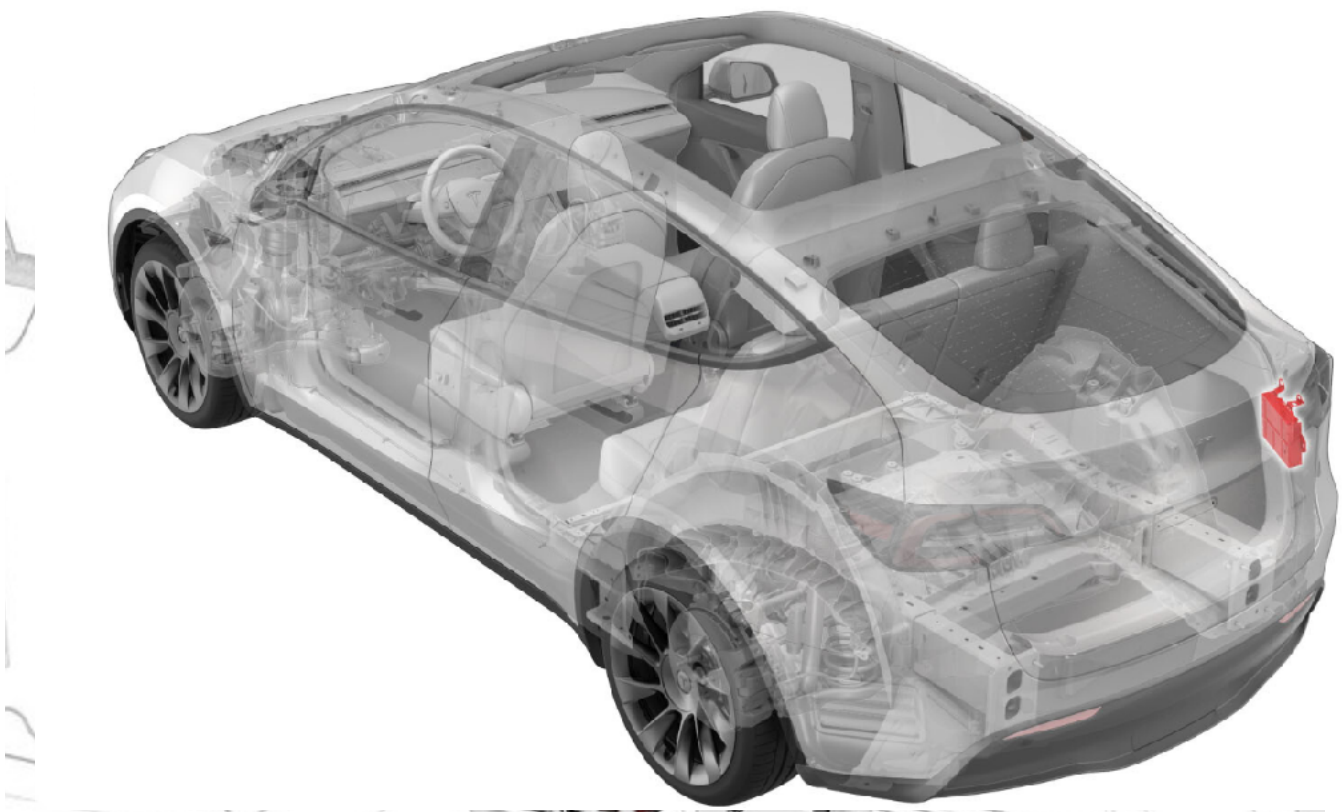
Step 2. Locate and Disconnect the Subwoofer and OEM Amplifier

(Model 3)

Step 2-1: Remove the RH trunk side trim.



Step 2-2:





Disconnect the electrical harness from the amplifier connectors.

Three cable/connectors on OEM Amp. And one on subwoofer box.

Step 2-3 Remove the bolts and nuts that attach the subwoofer to the body, and then remove the subwoofer with amp from the vehicle.

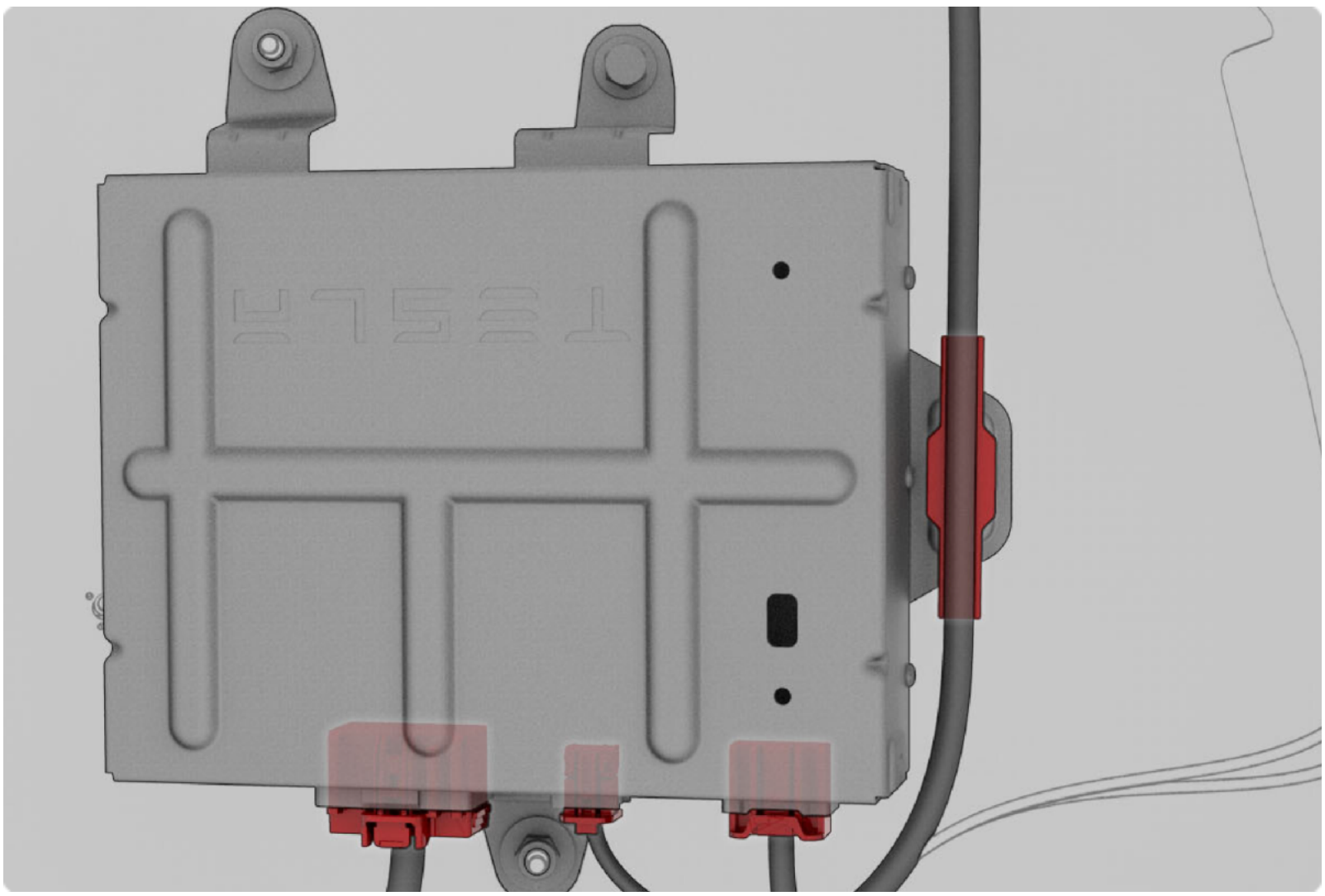
Then unscrew the screws so OEM Amp could separate from the subwoofer module.

(Model Y)

Step 2. Locate and Disconnect the OEM Amplifier

Step 2-1: Remove the RH trunk side trim and Remove the RH lower C-pillar trim.

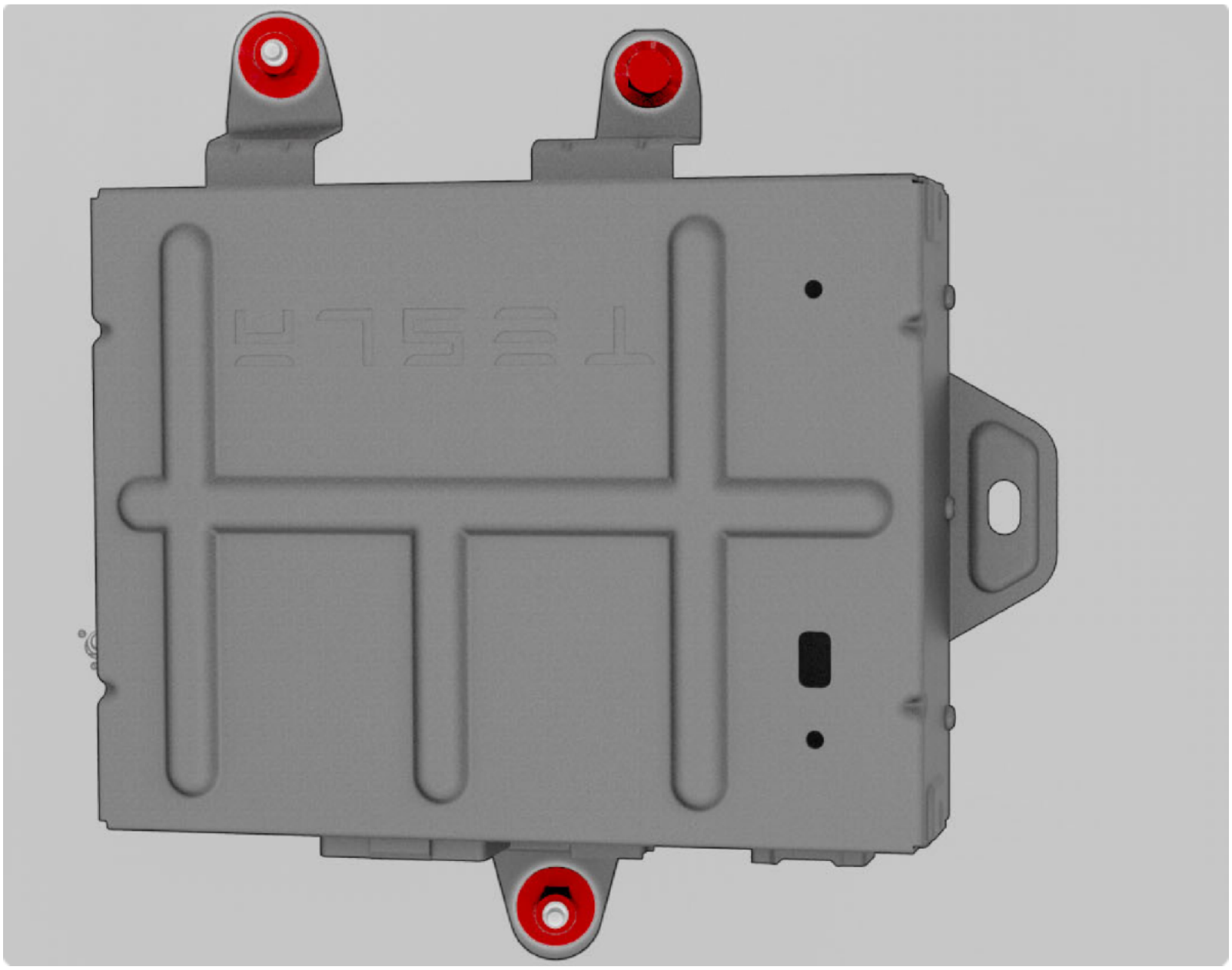
Step 2-2: Disconnect the electrical harness from the amplifier connectors.
Three cable+connectors.



Step 2-3. Remove the nuts and bolt that attach the amplifier to the vehicle.
5.4 Nm (4.0 lbs-ft)

Step 3. Add Light Harmonic TAS Amplifier on TOP of the OEM Amp.

(Model 3)



Step 3-1: Unscrew the 3 screws on OEM Amp on one side, and unscrew 3 more screws on the other side.

Step 3-2: Make sure LH TAS Amplifier that has cable+connector is facing the same side with OEM Amp that has connector input.

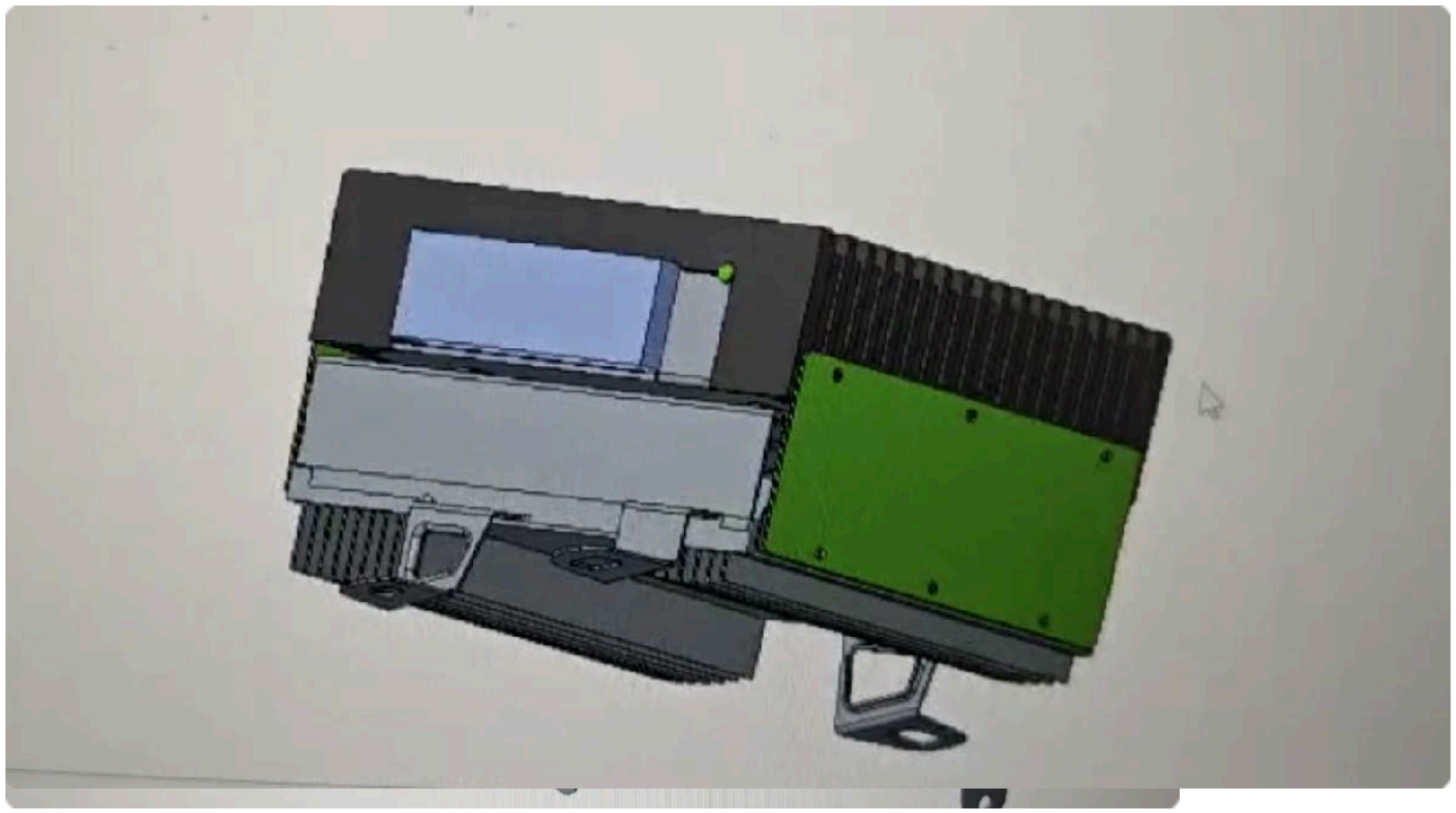
Step 3-3: Screw back the screws that could hold both LH TAS Amp with support rack and OEM Amp. (Green part of above is the support rack). Totally six screws.

Step 3-4: Insert two cables with connector back to the OEM amp. Make sure insert is gentle and secured. The connector is gendered, you won’t insert the wrong one.

(Model Y)

Step 3-1: Unscrew the 3 screws on OEM Amp on one side, and unscrew 3 more screws on the other side.

Step 3-2: Make sure LH TAS Amplifier that has cable+connector is facing the same side with OEM Amp that has connector input.



Step 3-3: Screw back the screws that could hold both LH TAS Amp with support rack and OEM Amp. (Green part of above is the support rack). Totally six screws.

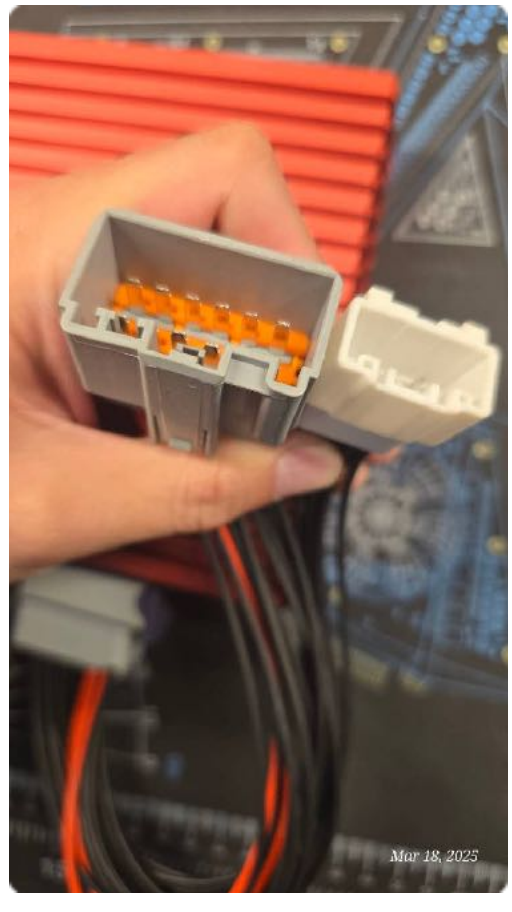
Step 3-4: Insert two cables with connector back to the OEM amp. Make sure insert is gentle and secured. The connector is gendered, you won't insert the wrong one.

Step 4. Relocate the new combined amplifiers (OEM + LH TAS) back

(Model 3 & Model Y)

Step 4-1: Put combined amp back to subwoofer, then put the sub with amp to its original place and secure the screw.

Step 4-2: Insert the speaker + power harness. GRAY and WHITE connectors insert into LH TAS Amp Connector like in photo. These are directional and size is different, you won’t miss it.



Step 4-3: Insert the one left harness with BLACK connector back to OEM Amp. (Important, this is for DIGITAL CONTROL. If you forget to put it back, whole system can not make any sound)

Step 5. Speaker Test (Don't close put back the trunk side trim yet)

Step 5-1: Power On. You should see one LED on LH TAS Amp lite up. Don't play any music. Turn volume down to 1 or 2. If you didn't see the LED, check connection again. Or report back to us.

Step 5-2: Play music in mid volume. Let it run for 10 mins. EQ settings should be flat or slightly tweaked to what you like.

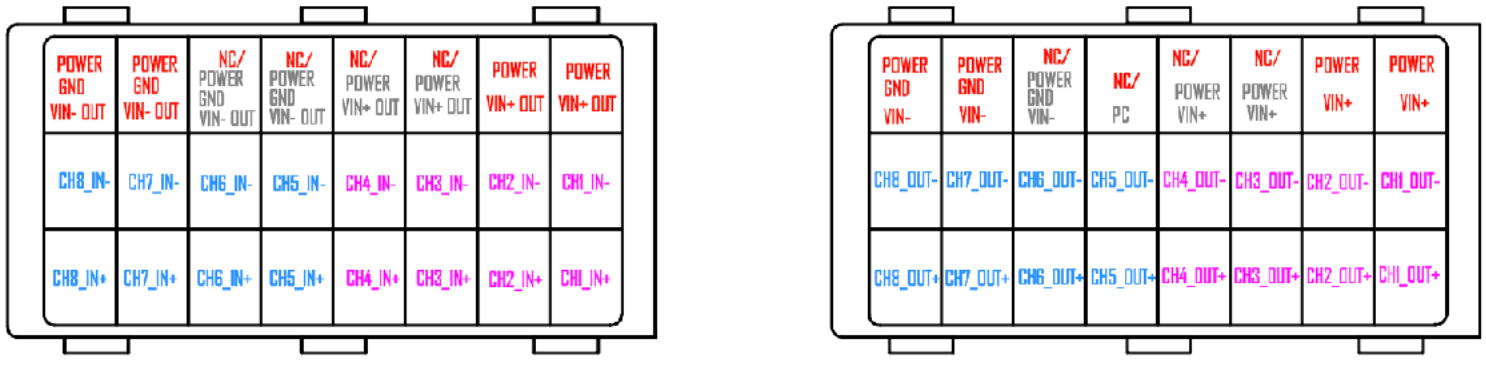
Step 5-3: If everything is all right. Make it louder. For another 20 mins. Now you could restore trim and everything else back.

The five regions you should feel the difference.

(A) Clarify (B) Bass impact (C) Sound staging (D) Extension on highs and lows (E) Transient response

If you have any issues during the installation process. Let us know anytime @ info@lightharmonic.com

Thank you!



Light Harmonic Team

Connection Diagram