Light Harmonic TAS Amplifier for Model S/X Installation Instructions

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

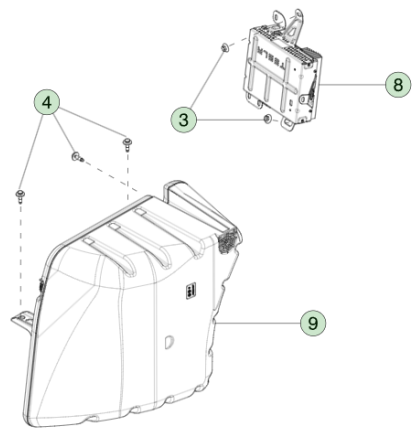
Step 1. Prepare

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 the OEM amplifier

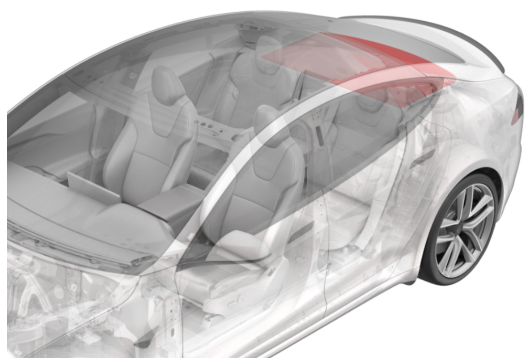


Open the RH rear door and lower the RH rear window.

Fold the RH 2nd row seat back to the down position.

Open the lift gate.

Remove the rear trunk parcel shelf.

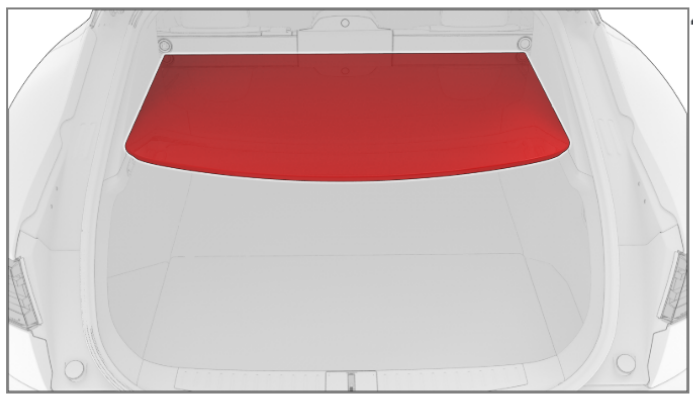


Remove the rear trunk load floor.

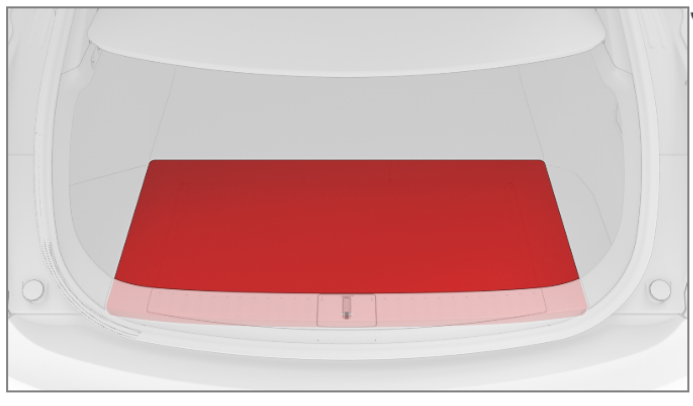
Remove the trunk sill trim.Remove the RH trunk load floor bracket. See Bracket - Trunk Load Floor - RH. Remove the trunk floor front trim.Trim - Front - Floor - Trunk



1. Open the liftgate.



2. Remove the rear trunk parcel shelf, if installed.



3. Remove the rear trunk load floor, if installed.



4. Use a plastic pry tool to release the clips (x6) that attach the trunk sill trim to the trunk sill, and then remove the trim from the vehicle.

Remove the rear wall rear trunk trim.



3. Release the push clips (x4) that attach the rear wall rear wall trim to the vehicle.

Remove the RH 2nd row seat outer bolster.



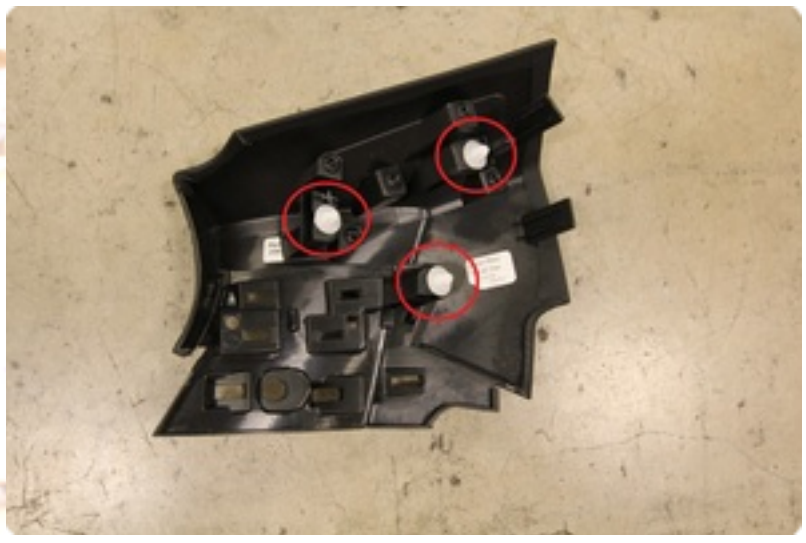
Release the clips (x4) and tab that attach the RH lower C-pillar trim to the RH middle C-pillar trim.



Remove the RH middle C-pillar trim. (Different types might vary)







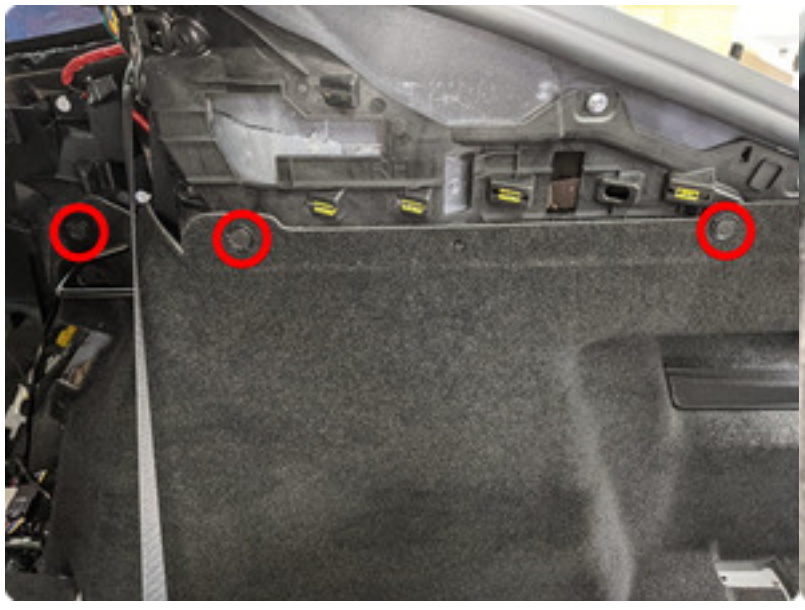
Release the clips (x7) that attach the RH upper C-pillar trim to the vehicle, and then move the upper C-pillar trim aside. (Different types might vary)







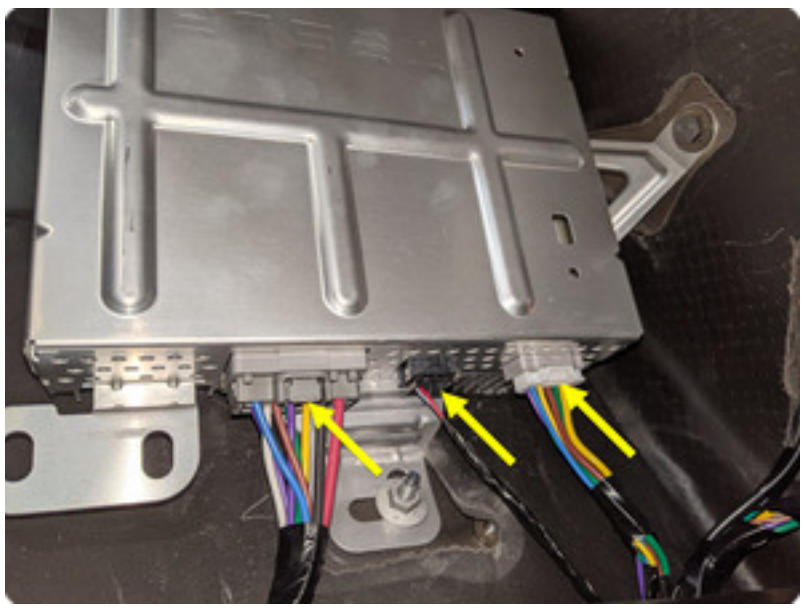
Remove the RH trunk side trim. Release the clips (x3) that attach the RH trunk side trim, and then disconnect the electrical connector.





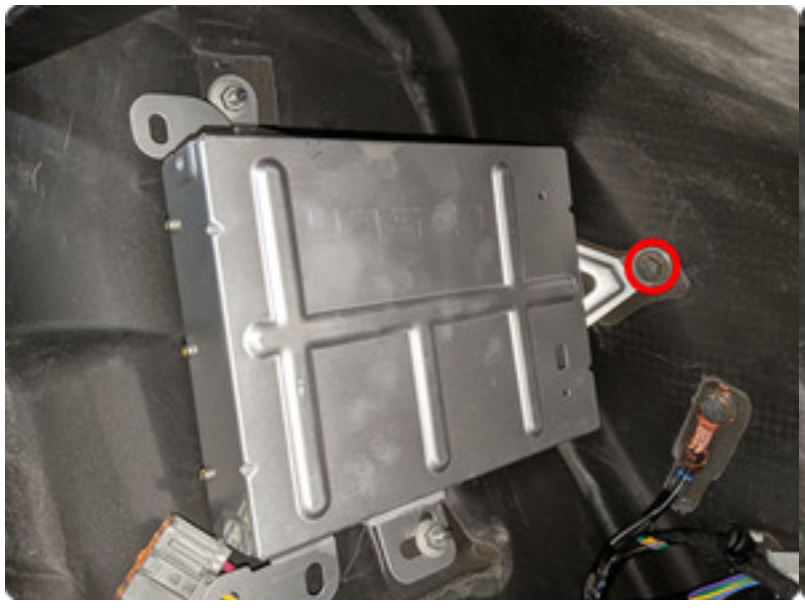


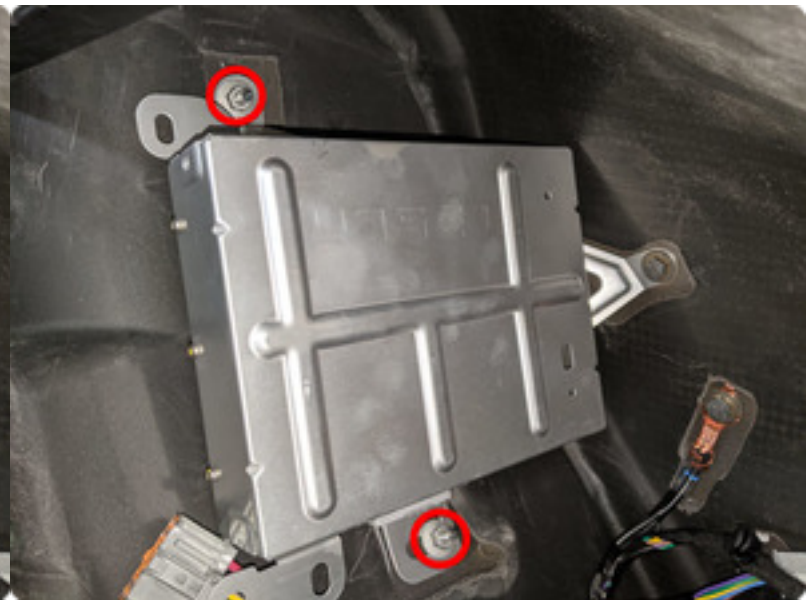
Then you will see the OEM amplifier with three connectors.



Step 2 Add Light Harmonic Amplifier

Remove the bolt that attaches the external audio amplifier to the body.



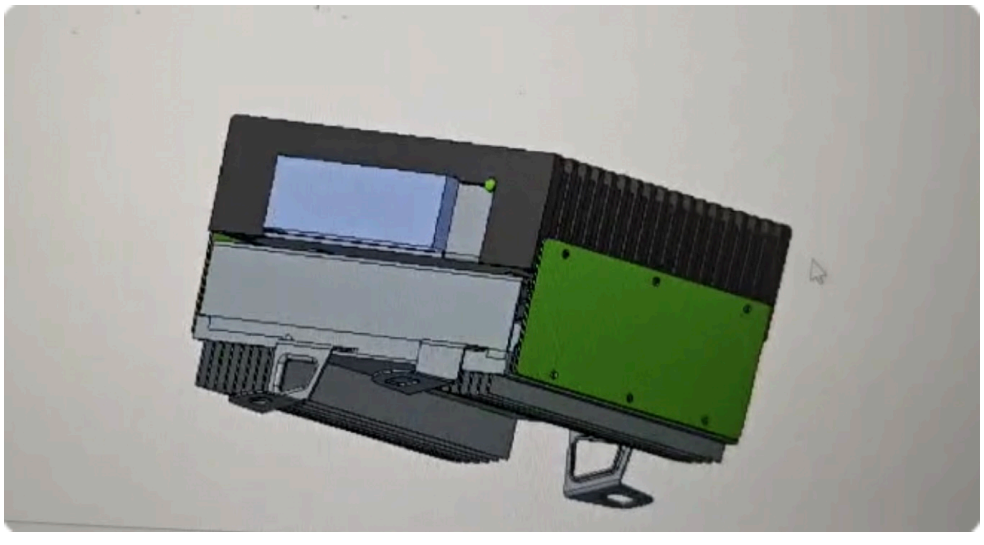


Disconnect three cables. So you could take OEM Amp out.

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

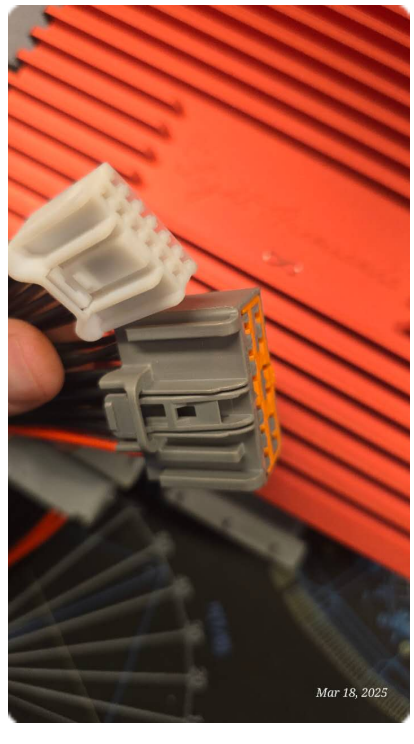
Step 3-1: Unscrew the 3 screws on OEM Amp on one side, and unscrew 3 more screws on the other side.

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



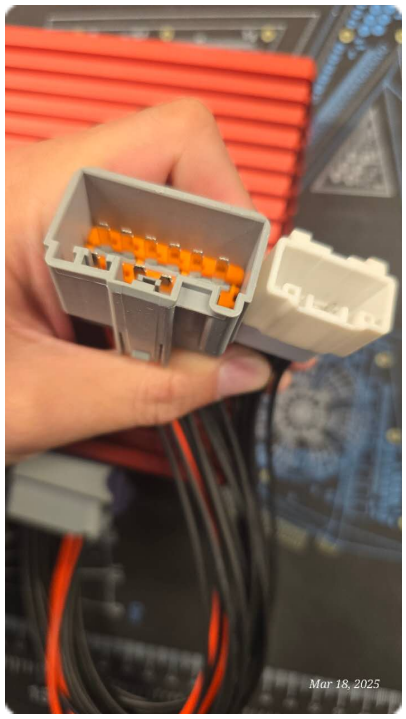
Step 3-3: Screw back the screws that could hold both LH TAS Amp with support rack and OEM Amp. (Green part of above is the support rack). Totally six screws. If NOT every screw could fit in right place, as long as you could secure the LH TAS Amp in stable position near OEM Amp. That would be fine. **For best shock damping, you could use 3-5mm 3M double side tap to stick LH TAM Amp on top of OEM Amp too.**

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

Step 4-1: 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 4-2: 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 or 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

