

WPS retrofit kit installation instructions

The WPS retrofit kit (WPSUG) adds an LED and a weatherised grille to WPS loudspeaker models manufactured in 2025 and earlier. When you connect the loudspeaker to an iKON amplifier, you can illuminate the LED from Vu-Net.

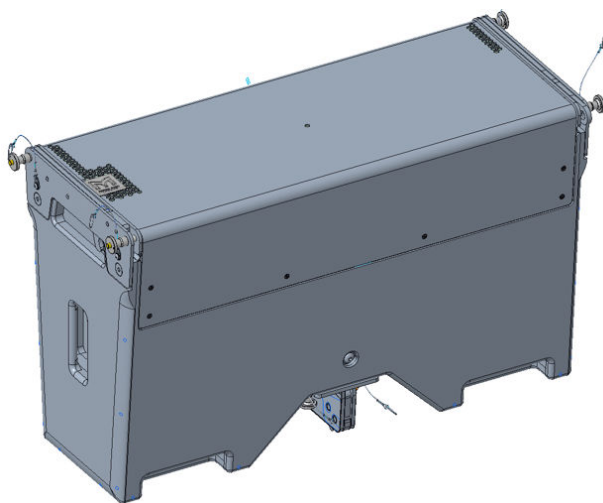
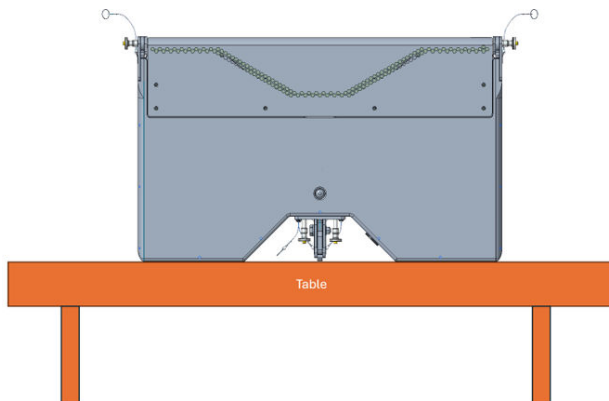
WPS loudspeaker models manufactured in 2026 and later feature an LED, a weatherised stainless steel 430 grille, improved construction methods, improved paint, improved metalwork and additional environmental testing.

This retrofit kit adds the LED and weatherised grille from the newer model. It does not upgrade pre-2026 loudspeakers to the full 2026 specification.

This document explains how to install the WPS retrofit kit.

To install the WPS retrofit kit

1. Place the WPS loudspeaker on a table or workbench with the grille facing up. Keep the WPS in this orientation throughout the installation procedure.



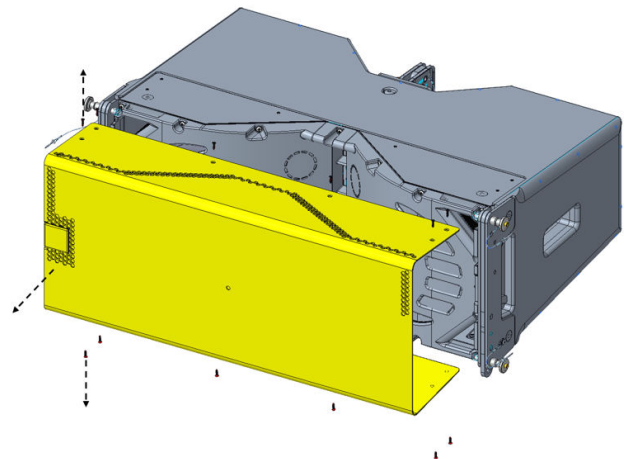
2. Make a note of the badge location.

Unscrew the grille and keep the screws safe ready for fitting the new grille. The screws are:

- 12 × FAC080 (M3 × 12 mm countersunk Pozi wood screw)

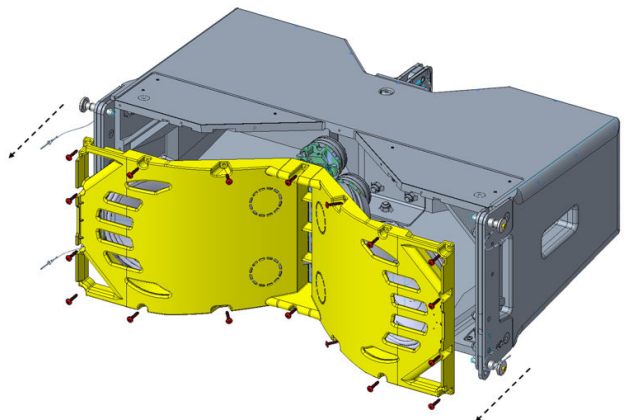
Remove the grille. The kit includes a new grille so you can dispose of the old one.

For clarity, the image below shows the WPS on its side, but you should keep the WPS standing on its rear during installation.

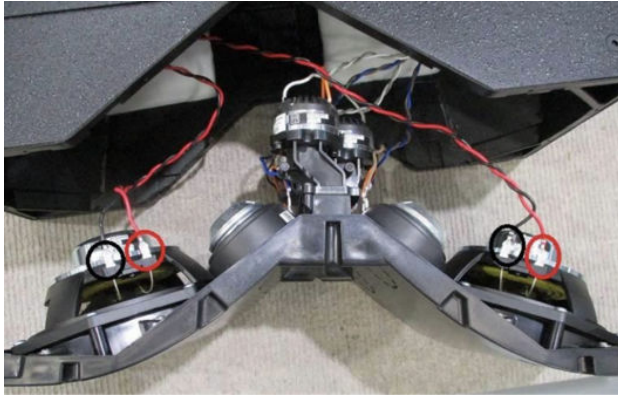


3. Unscrew and remove the front baffle assembly, taking care of the cables connected at the rear. Keep the screws safe ready for reassembly:

- 18 × FEH410 (M5 × 20 mm button socket screw)



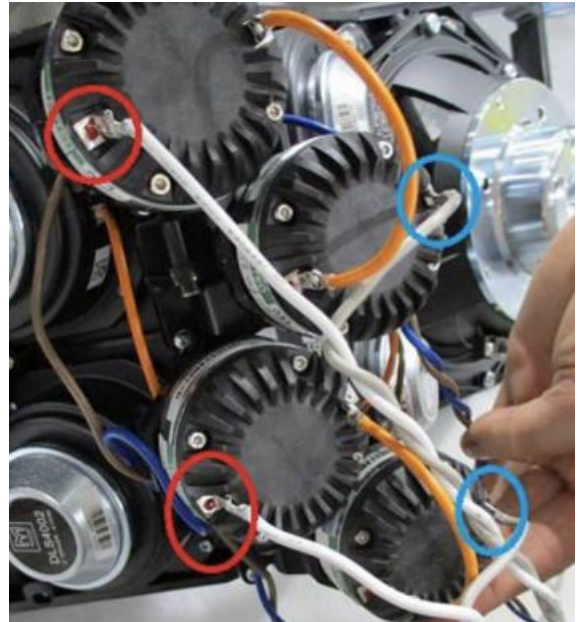
4. Disconnect the red and black wires from the two LF drivers at the rear of the baffle. The connectors are circled in the image below:



5. Disconnect the brown and blue wires from the four MF drivers at the rear of the baffle. The connectors are circled in the image below. Leave the orange link cables between the drivers connected.

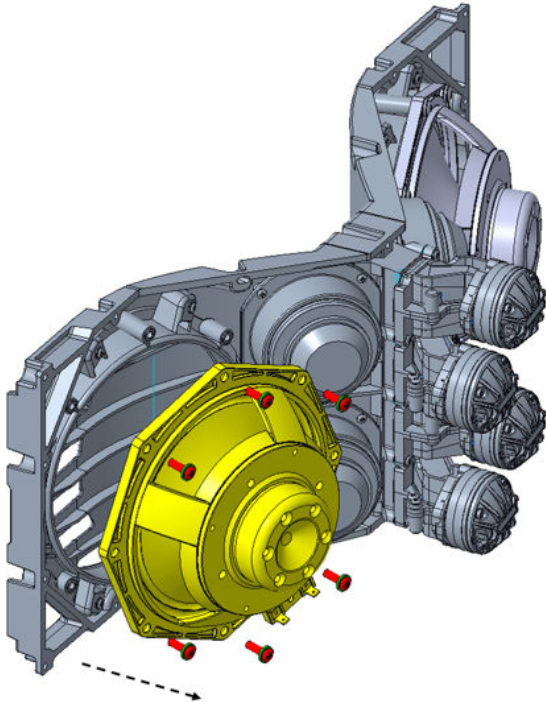


6. Disconnect the white and grey wires from the four HF drivers at the rear of the baffle. The connectors are circled in the image below. Leave the orange link cables between the drivers connected.

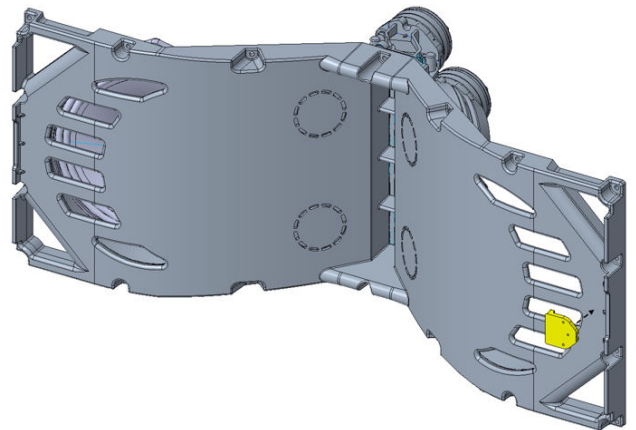
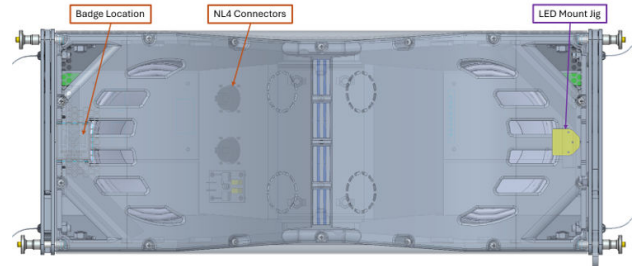


7. Unscrew and remove the LF driver from the side of the baffle furthest from the badge side of the grille. This is the side of the cabinet furthest from the NL4 connectors. Keep the screws and washers safe ready for reassembly.

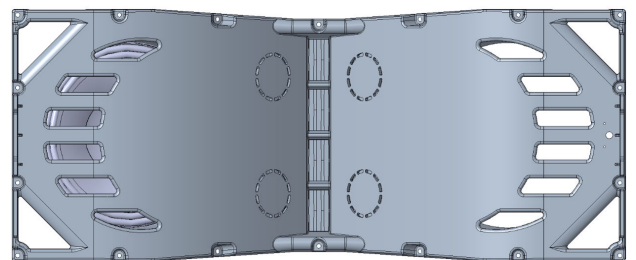
- 6 × FAA06045 (M6 × 20 mm Plastite pan head Pozi screw)
- 6 × FAZ060 (M6 plain washer)



8. Align the LED mount jig (MEC100339) on the side of the baffle where you removed the LF driver. Ensure the jig is positioned exactly as shown, as its location is critical.

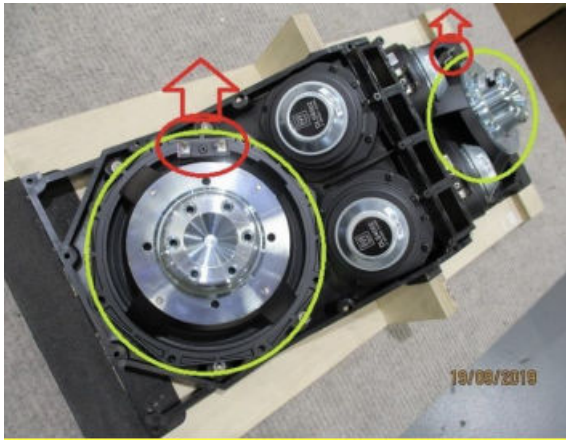


9. Use the guide holes to drill three 2 mm pilot holes. You can drill all the way through the panel.
10. Increase the size of the centre hole to 7 mm, drilling all the way through.

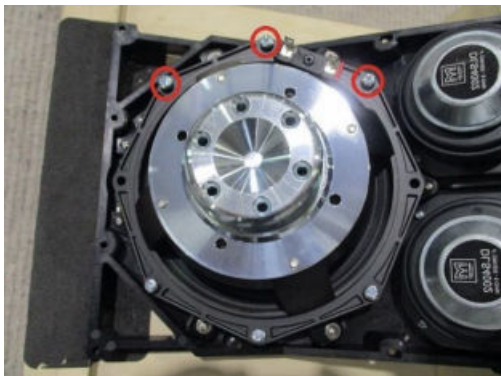


11. Remove any plastic burr.

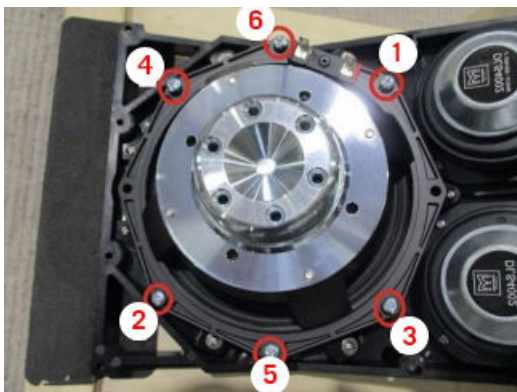
12. Refit the driver to the baffle, ensuring the driver tag location mirrors the LF driver on the other side:



13. Insert three of the screws and washers you previously removed. Use the three holes on the side near the driver tags, as highlighted below. Tighten each screw halfway.

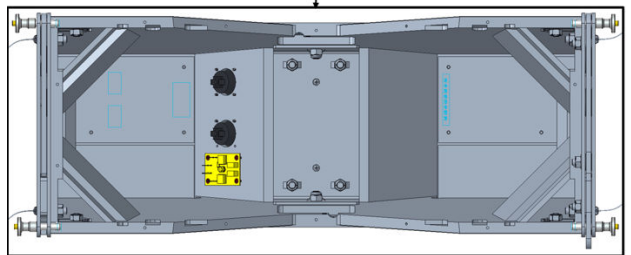
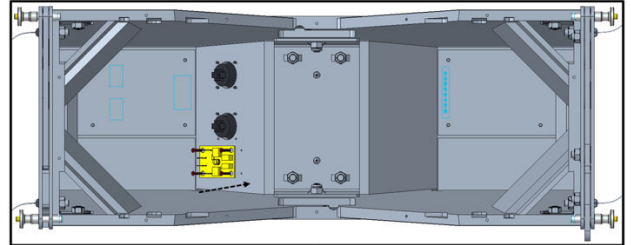


14. Insert the other three screws and washers and tighten each screw halfway.
15. Fully tighten the driver screws by alternating from side to side, following the numbered sequence shown below:



16. Position the LED PCB (ESA100009) as shown below and secure it using the following screws:

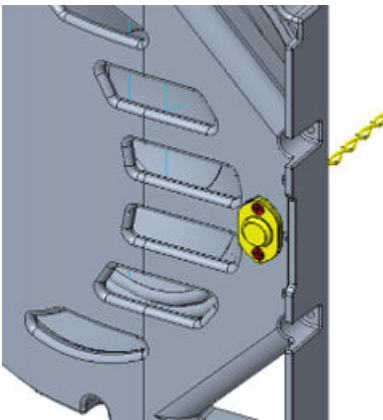
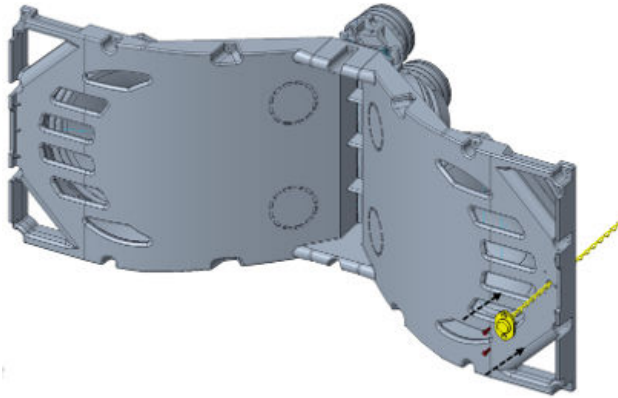
- 4 × FAB06003 (No. 6 × 1 in. countersunk Pozi self-tapping screw)



17. Clean or vacuum away any loose chippings or debris.

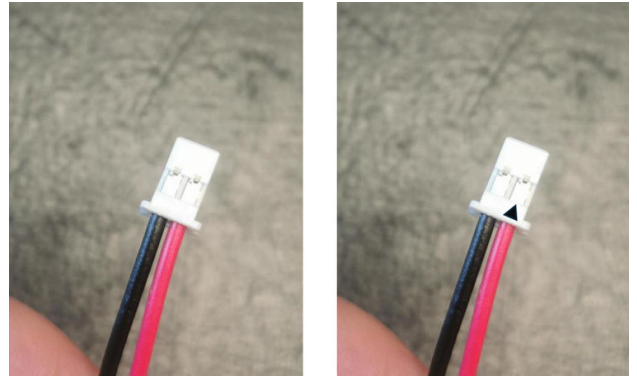
18. Feed the LED assembly ASM100551 through the hole you drilled in the baffle. The cable will also feed through an unused LF driver mounting hole. Screw the plate in position using the following screws:

- 2 × FAC080 (M3 × 12 mm countersunk Pozi wood screw)

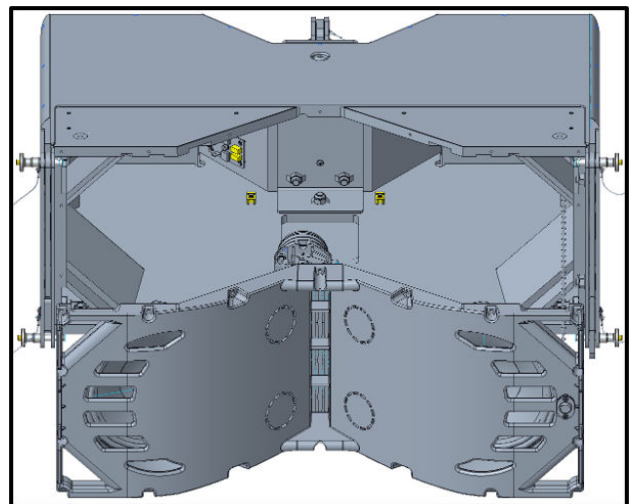
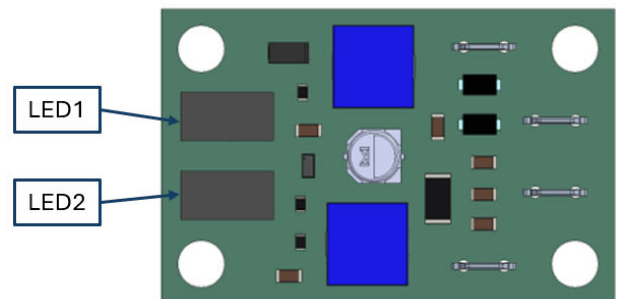


19. Ensure the previous step has been completed before attaching the 2-way connector housing (MEC100289) to the LED cable (ASM100551).

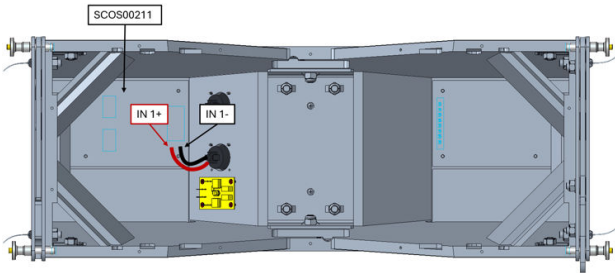
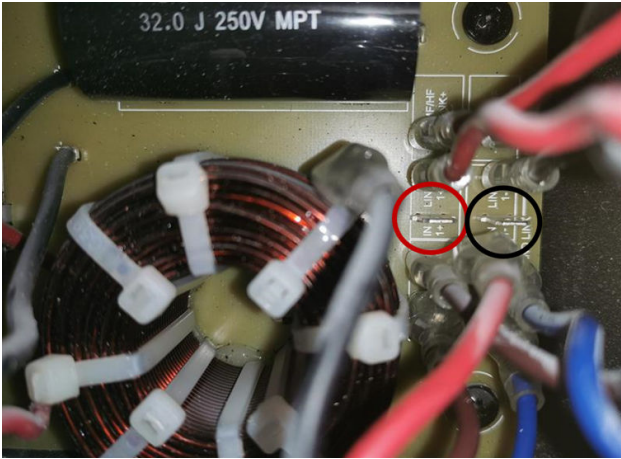
Connect the red and black wires as shown below. The red wire must be connected to the side of the connector marked with the triangular dimple. The dimple is not visible in the image below, but its location is indicated by a black triangle in the image on the right.



20. Plug the LED cable into connector **LED1** or **LED2** on the LED PCB (ESA100009). It does not matter which connector you use.

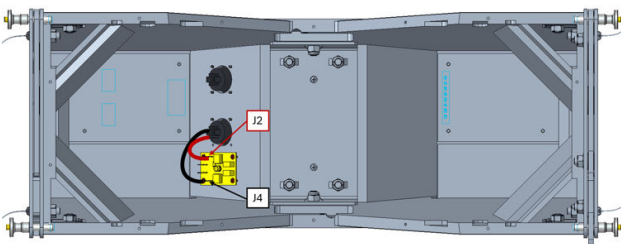


21. Disconnect the red and black wires from the terminals labelled **IN 1+** and **IN 1-** on the main PCB (SCOS00211). These terminals are circled in red and black in the image below.



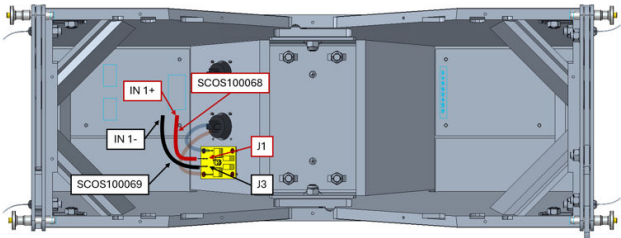
22. Connect the red and black cables to the LED PCB.

- Connect the red cable to pin **J2**.
- Connect the black cable to pin **J4**.



23. Connect jumper cables between the LED PCB and the main PCB.

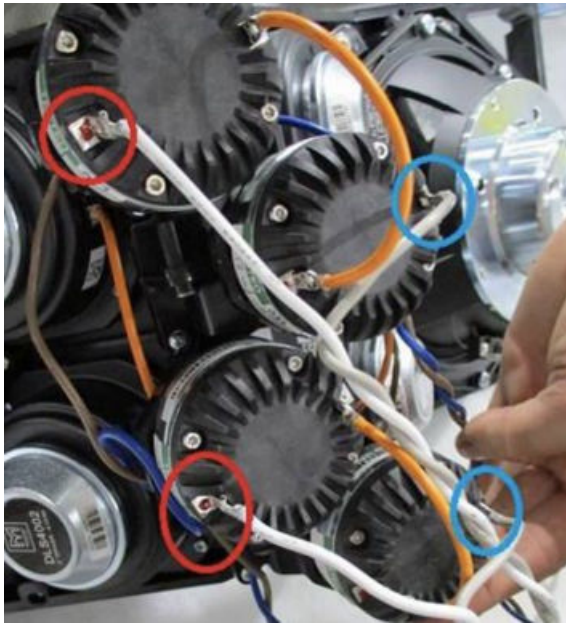
- Connect the red jumper cable (SCOS100068) to **J1** on the LED PCB and **IN 1+** on the main PCB.
- Connect the black jumper cable (SCOS100069) to **J3** on the LED PCB and **IN 1-** on the main PCB.



Cable	NL4 connector	Main PCB	LED PCB
Red NL4 connector	As Is	N/A	J2
Black NL4 connector	As Is	N/A	J4
Red (SCOS100068)	N/A	IN 1+	J1
Black (SCOS100069)	N/A	IN 1-	J3

24. Reconnect the four HF drivers:

- Connect the white wires to the positive tags. The positive tags are marked in red and are circled in red in the image below.
- Connect the grey wires to the negative tags. The negative tags are unmarked and are circled in blue in the image below.
- The remaining tags should already be connected by orange link wires. If you disconnected the link wires earlier, reconnect them.



Perform a gentle pull-back test on all wires to ensure they are securely connected.

25. Reconnect the four MF drivers. For the left pair:

- Connect the brown wire to the positive tag on one driver. The positive tag is marked in red and is circled in red in the image below.
- Connect the blue wire to the negative tag on the other driver. The negative tag is unmarked and is circled in blue in the image below.
- The remaining two tags should already be connected by an orange link wire. If you disconnected the link wire earlier, reconnect it.

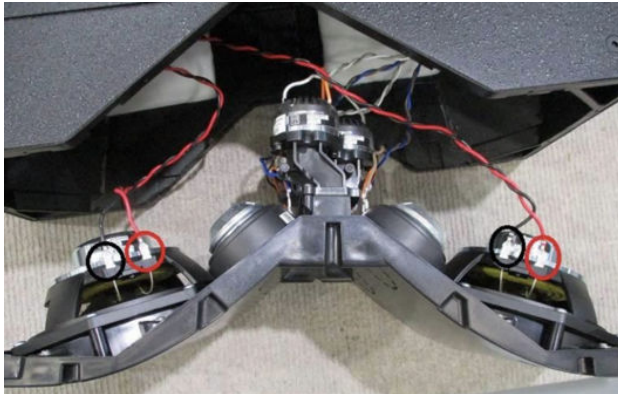
Connect the right pair of drivers in the same way.



Perform a gentle pull-back test on all wires to ensure they are securely connected.

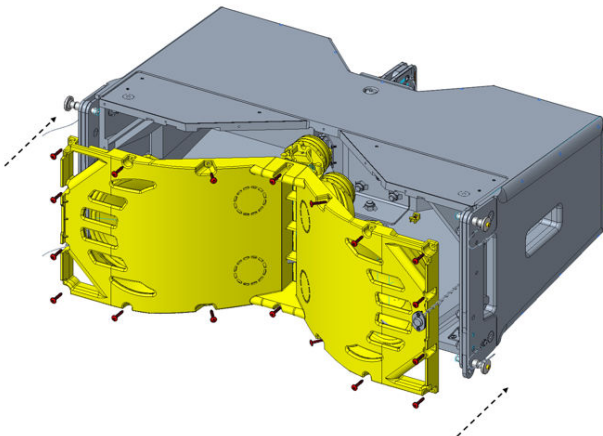
26. Reconnect the two LF drivers:

- Connect the red wires to the positive tags. The positive tags are marked in red and are circled in red in the image below.
- Connect the black wires to the negative tags. The negative tags are unmarked and are circled in black in the image below.

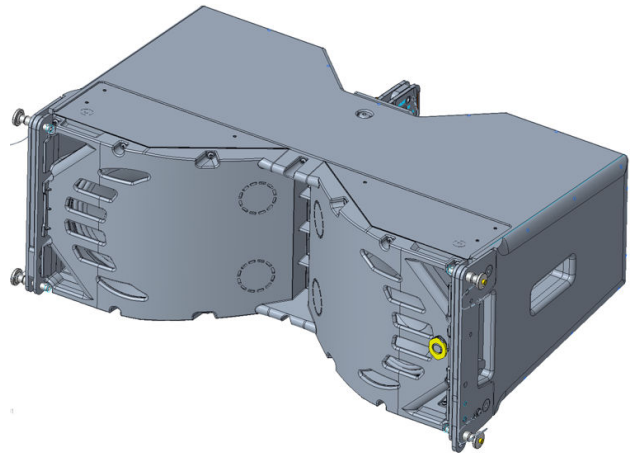


Perform a gentle pull-back test on all wires to ensure they are securely connected.

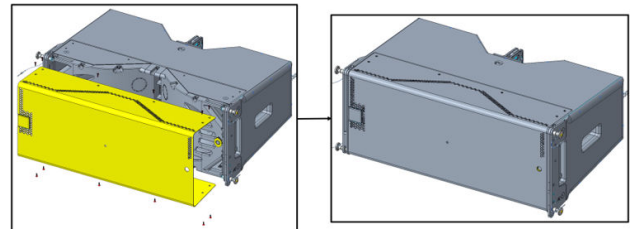
27. Slide the front baffle back into position, making sure that none of the cables at the rear become disconnected. Screw the front baffle into place using the 18 screws you removed earlier.



28. Attach the LED gasket GRT100171 to the LED mount. This is shown in yellow in the image below.



29. Attach the new grille ASM50046 using the 12 screws you removed from the old grille.



This completes the fitting procedure.

To test the LED

1. Make sure you're running Vu-Net Release 2.3.4 or later. If you need to upgrade, visit the **Software** page on our website:
martin-audio.com/support/software
2. Connect the WPS to an iKON amplifier.
3. Connect Vu-Net to the iKON amplifier.
4. Right-click the iKON and select **Open Preset Manager** to add the appropriate presets.
5. Select **Master Overview** and click **LED Mode**. This mutes all channels with presets that support LEDs.
The **LED Mode** button is available only after you have added the correct presets.
6. Click the **Play** button to illuminate each cabinet LED in sequence (one per second) or click an **L** button to illuminate the LED for a specific cabinet.

When the **L** button is illuminated, either automatically or manually, the iKON amplifier sends an HF signal to the loudspeaker. The LED PCB detects this signal and illuminates the LED.

For subwoofers, the front and rear LEDs illuminate together. With speakers or subwoofers without LEDs, selecting **LED Mode** has no effect other than muting the cabinet.

What next?

Once the LED test is complete, test the WPS for audio.

If you have any questions or find any issues with these instructions, contact Martin Audio technical support at technical@martin-audio.com.