

WPC retrofit kit installation instructions

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

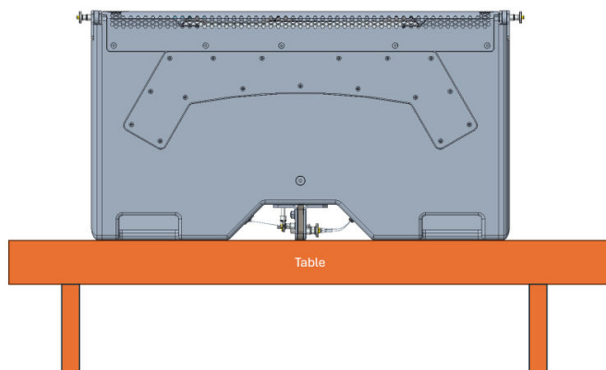
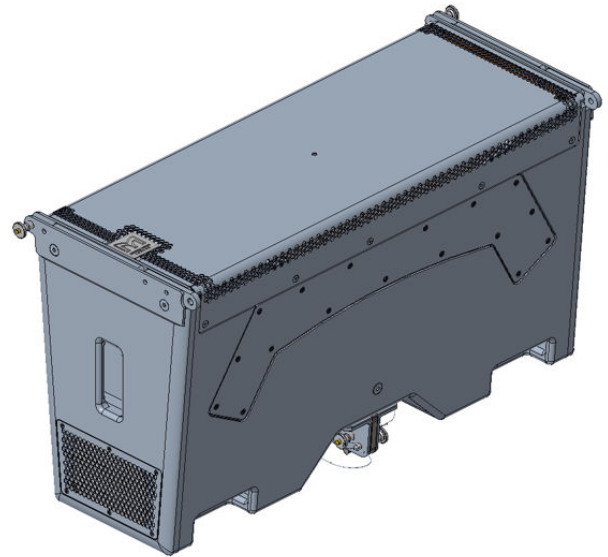
WPC loudspeaker models manufactured in 2026 and later feature an LED, a weatherised stainless steel 430 grille, improved construction methods, improved paint, improved metalwork and additional environmental testing.

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 WPC retrofit kit.

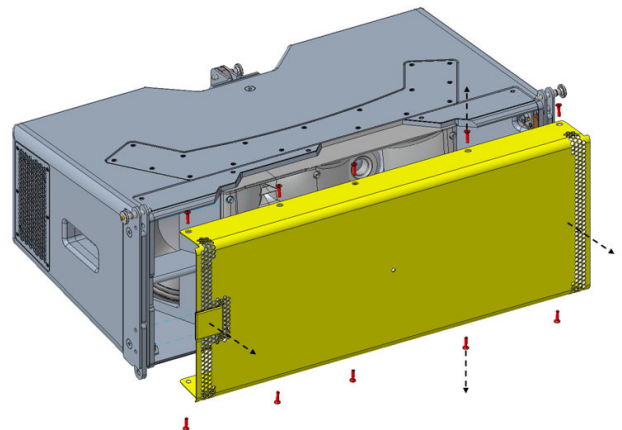
To install the WPC retrofit kit

1. Place the WPC loudspeaker on a table or workbench with the grille facing up. Keep the WPC in this orientation throughout the installation procedure.
2. Unscrew the grille and keep the screws safe ready for fitting the new grille. The screws are:
 - 10 × FAA05005 (M5 × 20 mm countersunk socket 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 WPC on its side, but you should keep the WPC standing on its rear during installation.



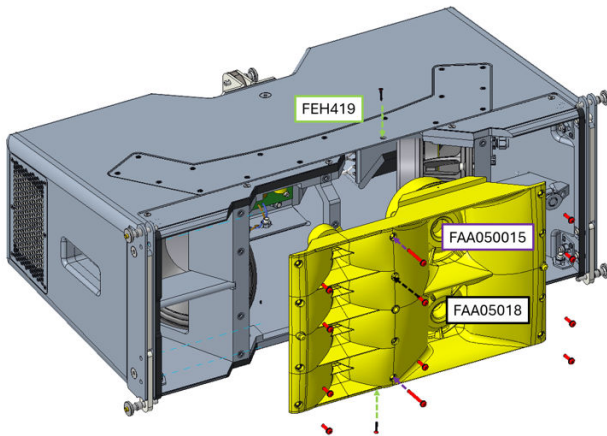
3. Unscrew and remove the front baffle assembly, taking care of the cables connected at the rear. For reassembly, keep track of the screws and washers removed from each location and store them safely. There are 12 screws in the front of the baffle:

- 10 × FAA05018 (M5 × 20 mm button socket screw)
- 2 × FAA050015 (M5 × 45 mm button socket screw)
- 12 × FAZ05016 (M5 serrated lock washer)
- 12 × FAZ050 (M5 Form A washer)

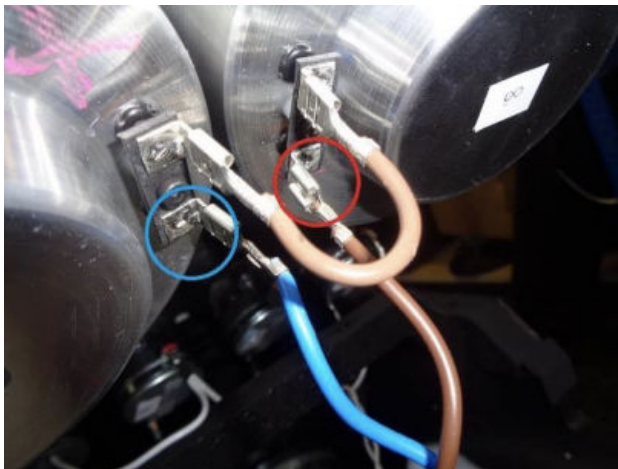
There are two screws in the sides of the cabinet holding the baffle in place from the side:

- 2 × FEH419 (M4 × 20 mm Pozi wood screw)

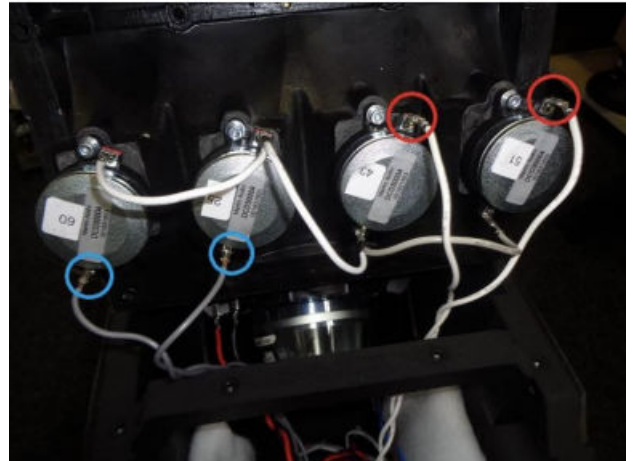
All these screws are shown in the following image:



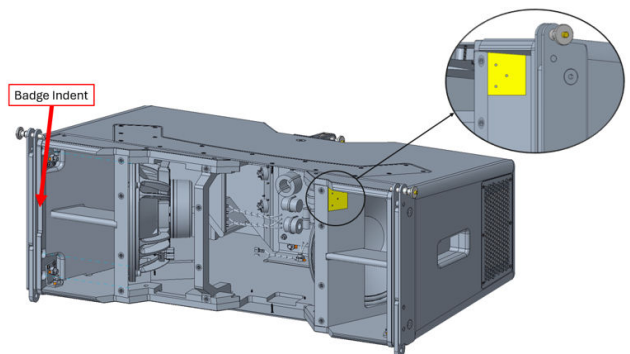
4. Disconnect the brown and blue wires from the two MF drivers. The connectors are circled in the image below. Do not disconnect the light brown link wire that connects the two drivers. Leave this link wire in place.



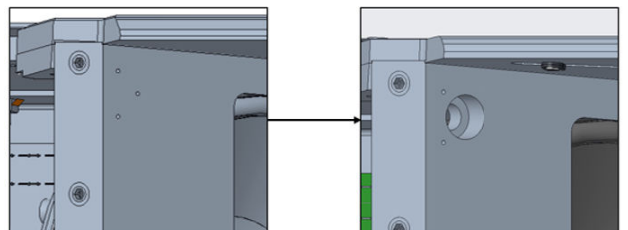
5. Disconnect the two white and two grey wires from the four HF drivers. The connectors are circled in the image below. Do not disconnect the white links wires that connect the drivers. Leave these link wires in place.



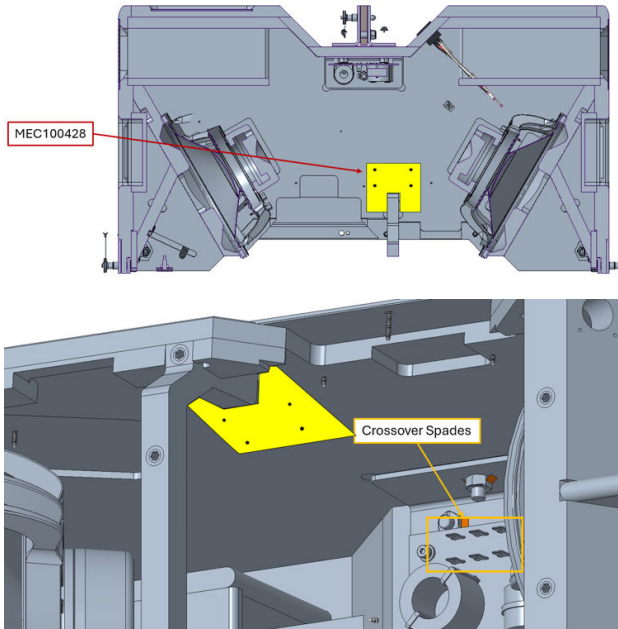
6. Align the gland location jig (MEC100348) near the main PCB as shown below. Make sure the jig is located on the opposite side to the badge indent (shown with a red arrow below). Note that the jig location is critical.



7. Use the guide holes to drill three 2 mm pilot holes. You can drill all the way through the panel.
8. Using a spade bit, increase the size of the centre hole to 20 mm to a depth of 10 mm. Then drill the centre guide hole to 8 mm all the way through the panel.

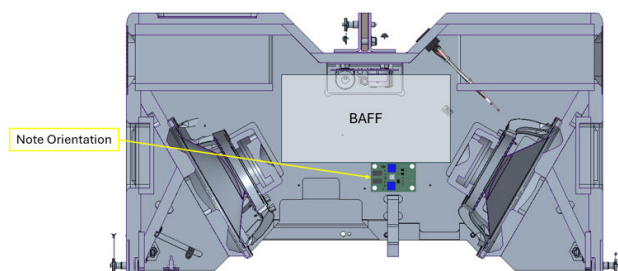


9. Align the PCB jig (MEC100428) with the top panel as shown below. Ensure that it is on the panel closest to the spade terminals on the large crossover.



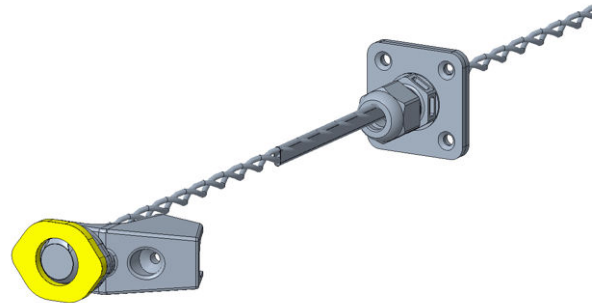
10. Drill four pilot holes 2 mm diameter and 5 to 10 mm deep.
11. Position the LED PCB (ESA100009) as shown below and secure it using the following screws:
- 4 × FAB06003 (No. 6 × 1 in. countersunk Pozi self-tapping screw)

Ensure that the LED PCB is next to the baffle and is the right way round, with the two main sockets in the middle of the cabinet.



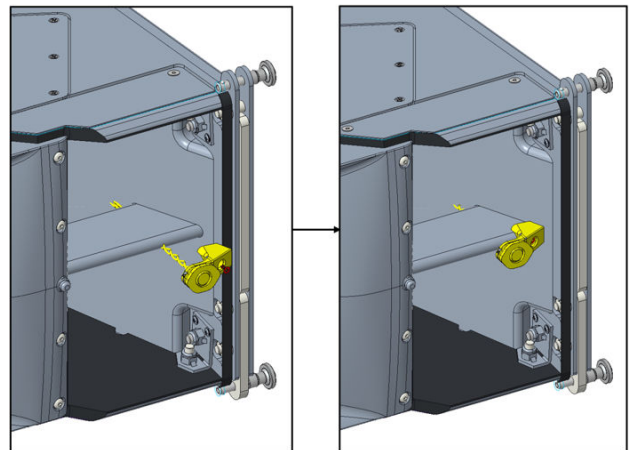
12. Clean or vacuum away any loose chippings or debris.

13. Fit the LED gasket GRT100171 onto the LED mount ASM100628.

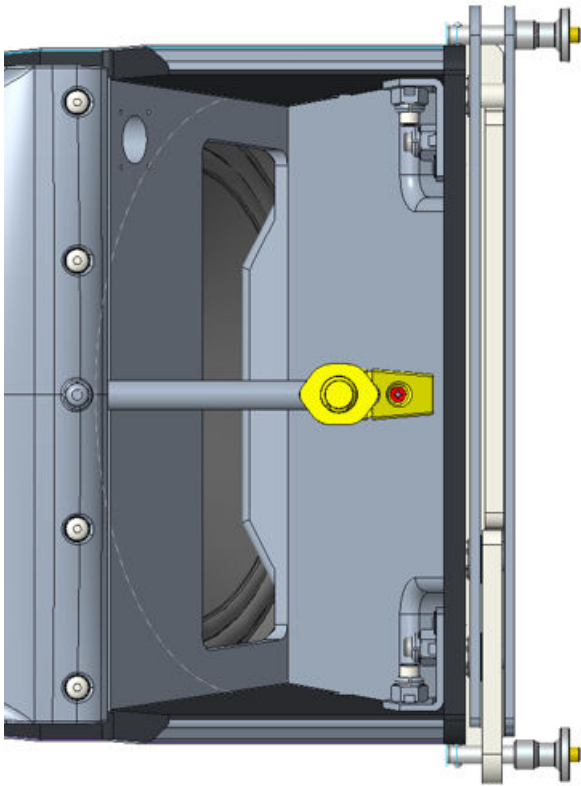


14. Align the LED mount ASM100628 to the central bar as shown below and screw in place:

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



The image below shows the front view of the LED mount:



15. Feed the LED cable through the 20 mm hole that you drilled earlier. Pull the cable through until the cable gland plate aligns with the hole.

16. Fasten the cable gland plate with the following screws:

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

These self-tapping screws do not require pilot holes, but the front two pilot holes allow you to align the plate. Don't tighten the cable gland yet, as you will need to adjust the cable in a later step.

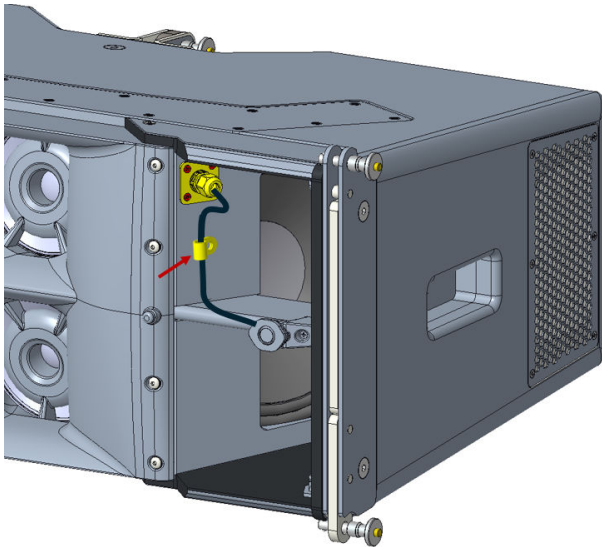


Take care not to drop screws into the driver. If a screw falls into the driver, you will need to remove the LF driver to retrieve it.

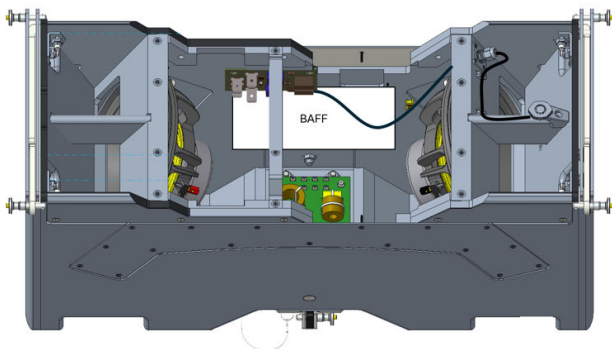
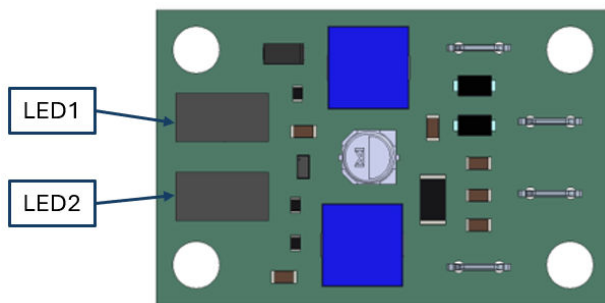


17. Locate a P-clip (FAX00026) in a suitable position for cable management in the front port, as shown below. Drill a 2 mm pilot hole for the P-clip. Feed the cable through the clip and secure the clip in place with a screw:

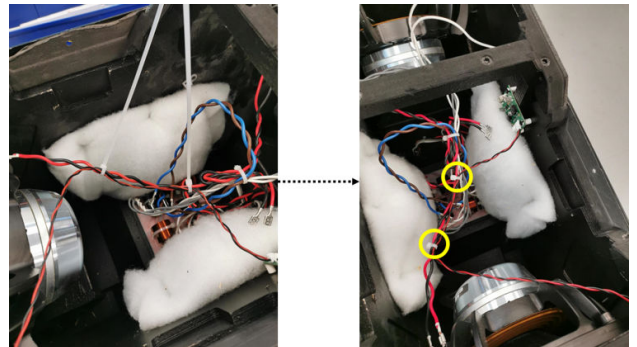
- 1 × FAC080 (M3 × 12 mm countersunk Pozi wood screw)



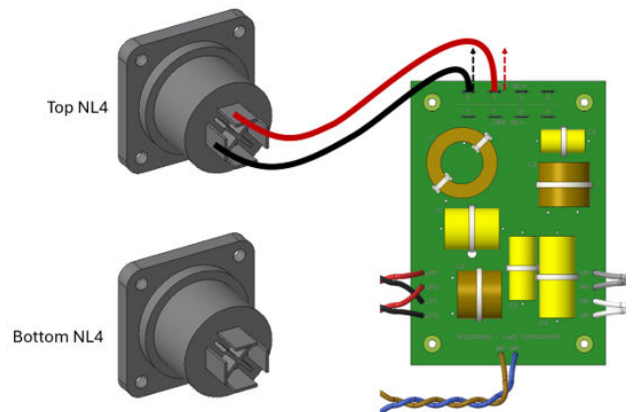
18. Adjust the cable and tighten the cable gland.
19. Plug the LED cable into connector **LED1** or **LED2** on the LED PCB (ESA100009). It does not matter which connector you use.



20. Secure the cable to the existing cable loom using two cable ties (FTA00001). Cut off the excess length from each cable tie.

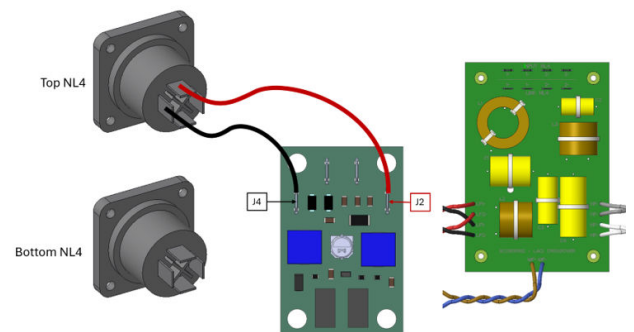


21. Disconnect the input NL4 black and red cables from the main PCB (SCOS00182). The pins are labelled **1+** and **1-** in section **INPUT NL4**.



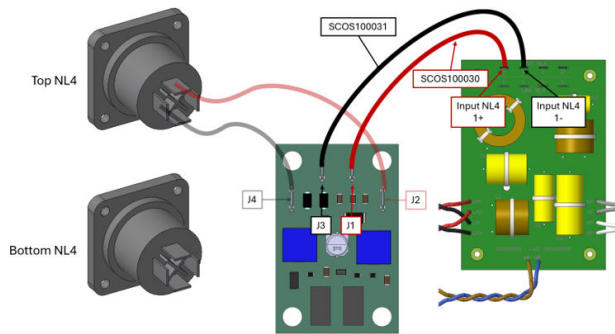
22. Connect these red and black cables to the LED PCB.

- 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.

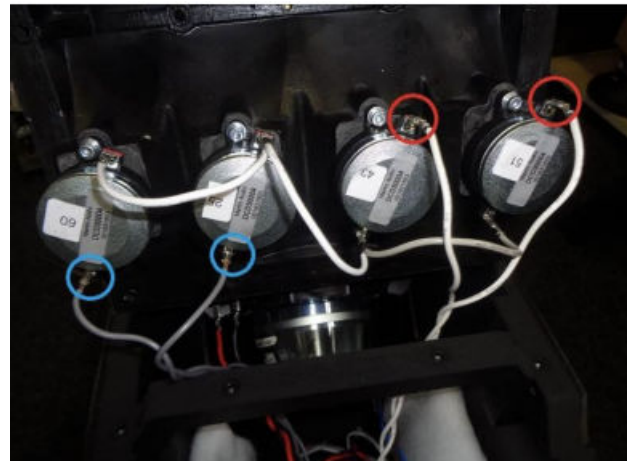
- Connect red jumper cable (SCOS100030) to **J1** on the LED PCB and **INPUT NL4 1+** on the main PCB.
- Connect black jumper cable (SCOS100031) to **J3** on the LED PCB and **INPUT NL4 1–** on the main PCB.



Cable	NL4 connector	Main PCB	LED PCB
Red NL4 connector	As Is	N/A	J2
Black NL4 connector	As Is	N/A	J4
Red (SCOS100030)	N/A	INPUT NL4 1+	J1
Black (SCOS100031)	N/A	INPUT NL4 1–	J3

24. Reconnect the four HF drivers:

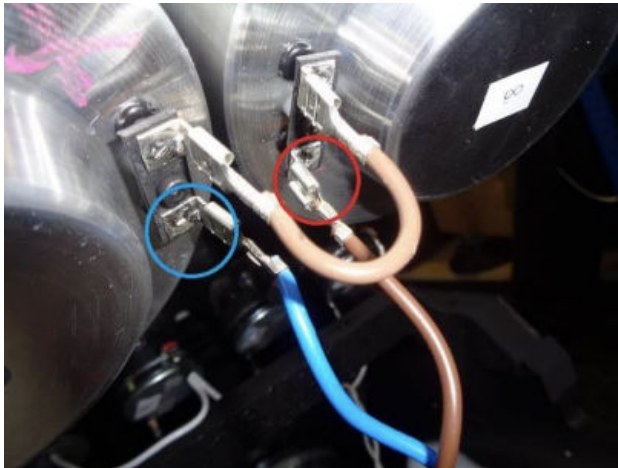
- Connect each of the two white wires to a positive tag. The positive tags have red marks and are circled in red in the image below.
- Connect each of the two grey wires to a negative tag. The negative tags are unmarked and are circled in blue in the image below.
- The remaining tags should already be connected by link wires. If you disconnected any of these earlier, reconnect them.



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

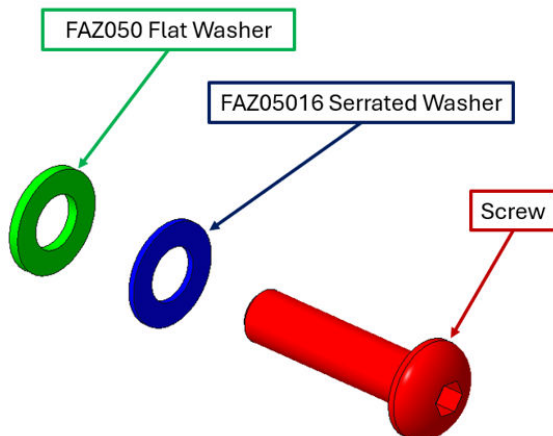
25. Reconnect the two MF drivers:

- 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 a brown link wire. If you disconnected the link wire earlier, reconnect it.



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

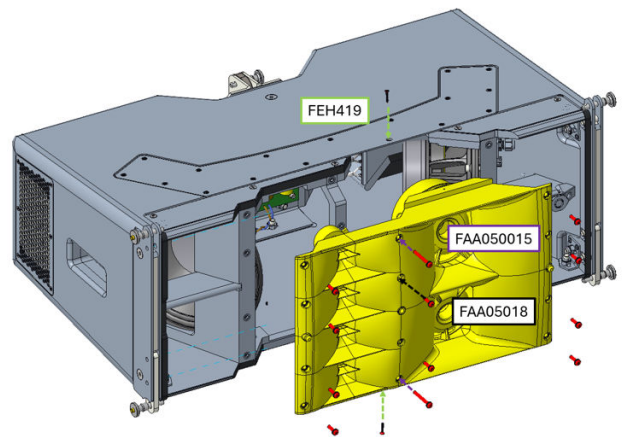
26. Slide the front baffle back into position, making sure that none of the cables at the rear become disconnected. Secure the front baffle using the screws and washers removed earlier. Fit the serrated washers on top of the flat washers:



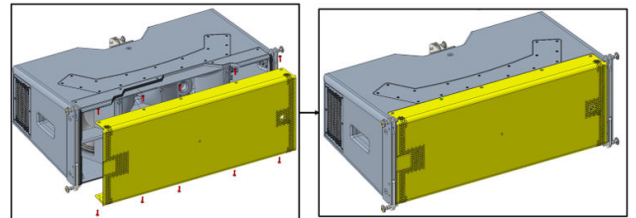
Fit the screws into their original locations. As a reminder:

- Fit the two longer socket screws (FAA050015) into the outer positions of the middle row.
- Fit the two Pozi screws (FEH419) into the sides of the cabinet.
- Fit the ten shorter socket screws (FAA05018) into all remaining locations.

All of these screws are shown in the image below:



27. Attach the new grille ASM100498 using the ten 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 WPC 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 WPC and WPL, the iKON amplifier sends the HF signal on the LF channel.

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 WPC for audio.

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