



# Instructions Installation Horn 60° x 45° For Models VR21/VR51/VFR129/VFR159

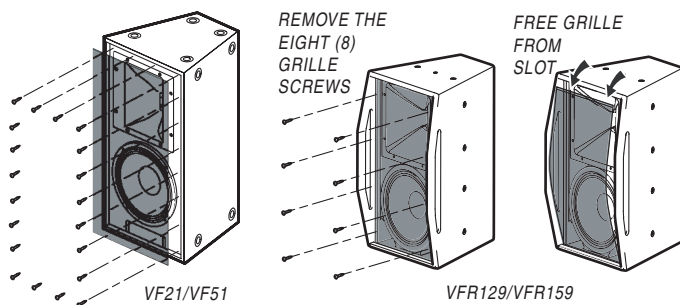
**Warning:** Installation should only be done by an experienced technician. Improper installation may cause serious injury and/or damage to the equipment.

## PREPARATION

- All power and signals going to the VR21/VR51/VFR129/VFR159 Loudspeaker must be "OFF".
- Remove all external connections.

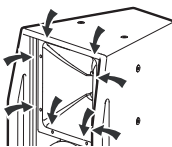
## 1. REMOVE GRILLE

- Using a Phillips head screw driver remove the screws attaching the grille to the enclosure (do not discard the screws), and gently remove the grille. Do not detach the grille's foam backing.
- For VFR129/VFR159: Remove the grille by bending the grille in the middle, this will allow the grille to detach from the captured portion at the top or bottom.



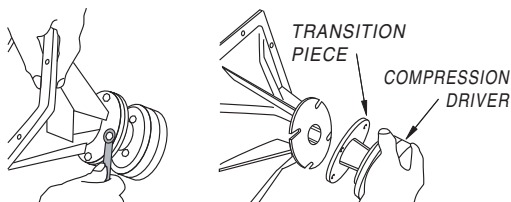
## 2. REMOVE THE OLD HORN ASSEMBLY

- Remove the eight (8) bolts attaching the horn to the enclosure (do not discard the bolts, lock washers, or flat washers).
- Gently pry the horn assembly away from the enclosure (it may be stuck due to the gasket seal). Support the horn assembly so it does not drop when it's free. Be careful not to pull the speaker wires.
- Lay the cabinet on the right side so the horn assembly can be placed next to it without disconnecting the wires.



## 3. ASSEMBLE THE NEW HORN ASSEMBLY

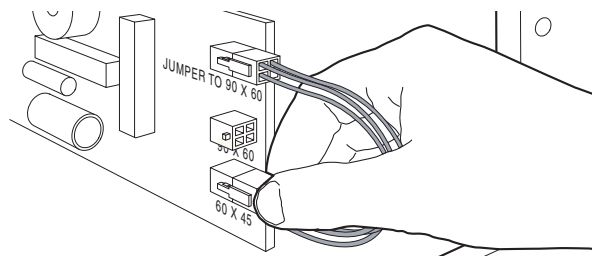
- Using a pair of wrenches, remove the four (4) hex head screws from the old horn flange, and remove the old horn. Note the compression driver and transition piece remain bolted together.



- Use the same four (4) hex head screws, flat washers, lock washers and nuts with the replacement horn to rebuild the new horn assembly. Ensure the horn throat mates concentrically with the exit of the compression driver assembly.

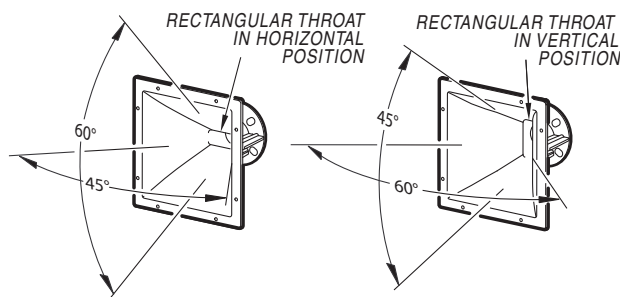
## 4. VFR129/VFR159 ONLY: ADJUST THE PASSIVE FILTER (VERY IMPORTANT)

- Pull back the white polyfill on the right and slightly below the opening for the horn and reveal a portion of the passive filter.
- Locate the multi-pin cable assembly on the passive filter. Unplug the wire from the connector labeled "90x60" and plug it into the connector labeled "60x45".



## 5. REATTACH THE NEW HORN ASSEMBLY

- Ensure that the new horn assembly is in the desired orientation and place it back into the cabinet. The horn is labeled on the side of each face indicating the pattern.



- Reattach the horn assembly with the eight (8) flat washers, lock washers and screws removed in Step 2.

## 6. REATTACH GRILLE

- For VFR129/VFR159: Re-attach the rubber trim pieces to the top and bottom of the grille (if removed). Place the bottom of the grille into the slot at the bottom of the enclosure. Bend the grille down to place the top of the grille into the slot at the top of the enclosure.
- Secure the grille to the enclosure with the screws removed in step 1a.

If you have questions about these VR21/VR51/VFR129/VFR159 Horn Replacement Instructions please contact the EAW Application Support Group



One Main Street, Whitinsville, MA 01588 tel: 800 992 5013 / 508 234 6158 fax: 508 234 8251 web: [www.eaw.com](http://www.eaw.com) e-mail: [asg@eaw.com](mailto:asg@eaw.com)

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