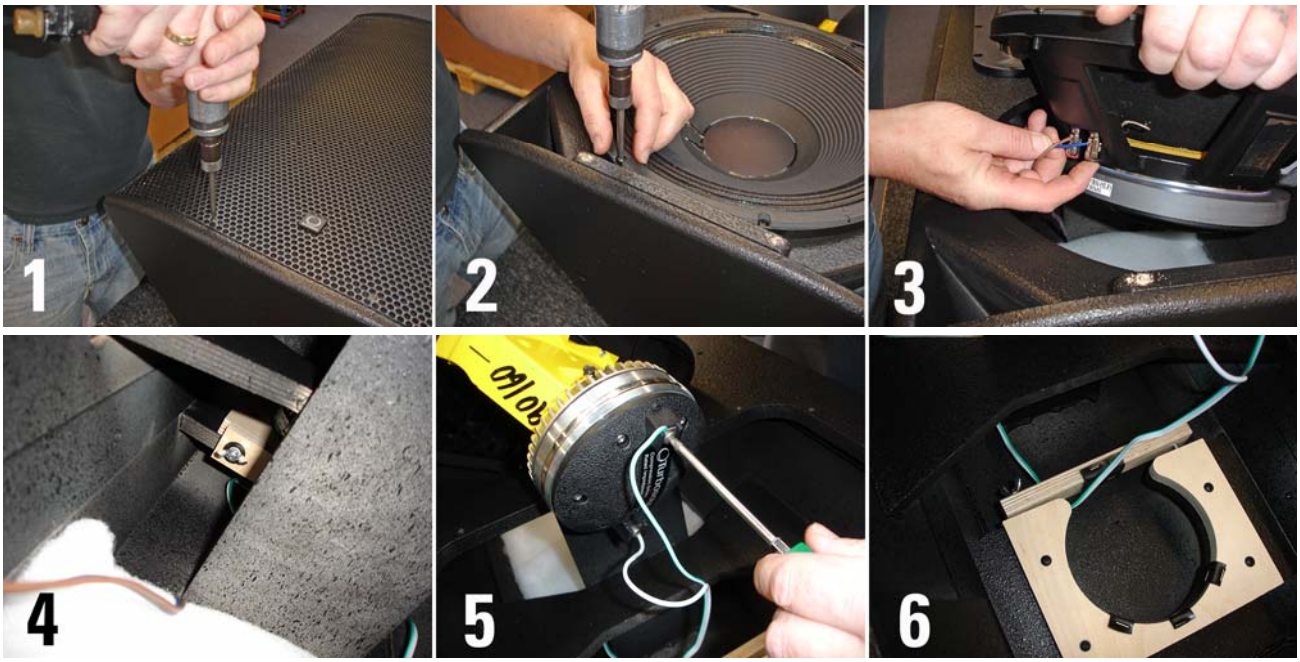
Application Note – TCS series

Rotating the HF horn pattern

The high frequency horn in all TCS-122 and TCS-152 models can be rotated through 90° in order to swap the horizontal and vertical dispersion patterns, particularly useful when assembling clusters or for example to retain the original dispersion when the cabinet is installed in a horizontal orientation.

1. Place the cabinet on its back on a suitable work surface. Remove the four pan-head posidrive screws that hold the grille in place and set the grille aside (fig 1).
2. Remove the bass driver and horn fixings screws (fig 2).
3. Disconnect and remove the bass driver, making a note of the polarity for later reconnection (fig 3).
4. Loosen the two wing nuts securing the hf driver retaining brace and lift out the horn and compression driver assembly (fig 4).
5. If required for servicing or replacement, disconnect the cables from the compression driver, making a note of the polarity for later reconnection (fig 5).
6. Rotate the horn to achieve the desired coverage pattern and replace it in the cabinet (fig 6).
7. If the compression driver has been removed, reconnect the cables observing the correct polarity (white cable to the +ve terminal, green/white cable to the –ve terminal) (fig 5).
8. Replace the horn and driver in the cabinet, making sure that the cable passes underneath the driver retainer and the compression driver locates squarely in the retaining brace (fig 6).
9. Tighten the wing nuts.
10. Replace the horn fixing screws and tighten.
11. Reconnect the bass driver, observing the correct polarity (brown cable to the red +ve terminal, blue cable to the black –ve terminal) and reinstate the driver in the cabinet (fig 3). Replace and tighten the driver fixing screws (fig 2).
12. Replace the grille (fig 1) and phase check the cabinet before use.



Turbosound Ltd, Star Road, Partridge Green, West Sussex RH13 8RY, United Kingdom
tel: +44(0)1403 711447 fax: +44(0)1403 710155 www.turbosound.com www.turbosoundusa.com