



TQ-445/DP

TQ-440/SP

HF COMPRESSION DRIVER CHANGE INSTRUCTIONS

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INTRODUCTION

This instruction manual covers the replacement of the CD-103 high frequency compression driver with the CD-114 high frequency compression driver in the TQ-445, TQ-445DP, TQ-440 and TQ-440SP three-way loudspeakers. This hardware upgrade improves the high frequency power handling as a result of the larger voice coil diameter but maintains the high frequency extension through diaphragm profile improvements. Please read the contents of this manual carefully, making sure that you have all the necessary parts and materials before you begin, so that you can obtain the best possible performance from this upgrade.

If you would like further information about this or any other TURBOSOUND product, please contact us. Detailed product information is available on our website at www.turbosound.com

After unpacking the unit please check carefully for damage. If damage is found, please notify the carrier concerned at once. You, the consignee, must instigate any claim. Please retain all packaging in case of future re-shipment.

PARTS LIST

- 1 off CD-114 compression driver
- 1 off 0.47uF capacitor

FITTING PROCEDURE

Remove the 12" driver from the cabinet by undoing the eight fixing screws, disconnect the speaker wires and lift the driver out and away from the cabinet. Lay the driver on a suitable workbench or other work surface.

Remove the connecting wires from the compression driver, unscrew it by twisting anti-clockwise and replace with the CD-114 compression driver.



fig. 1 Crossover board



fig. 2 Close-up of components

HF driver replacement

With the enclosure placed on a low work surface or floor, reach into the cabinet and ensure that the fibre wadding is pushed as far to the side as possible. Using a pair of side cutters, snip one of the lead-outs of one of the 6R8 resistors as shown in fig.3. Bend the cut wire in such a way as to prevent reconnection.



fig. 3 Snipping one of the leadouts **fig. 4 Severed wire ends**

Take the 0.47uF capacitor and bend the lead-outs at right angles to its axis. Pass the ends of the wire under the lead-outs of the 1.85uF capacitor on the P.C.B. and loop them back up. Solder the loop and trim off the excess.



fig. 5 Parallel capacitor

Remove the green and white twisted pair wire from the old compression driver and connect to the new one with the green wire to the black terminal. Then reconnect and replace the driver in the cabinet, making sure that the HF horn flare is aligned with the vertical axis of the cabinet. Replace the grille and test the cabinet.

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