Film-Tech

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These manuals are designed to facilitate the exchange of information related to cinema projection and film handling, with no warranties nor obligations from the authors, for qualified field service engineers.

If you are not a qualified technician, please make no adjustments to anything you may read about in these Adobe manual downloads.

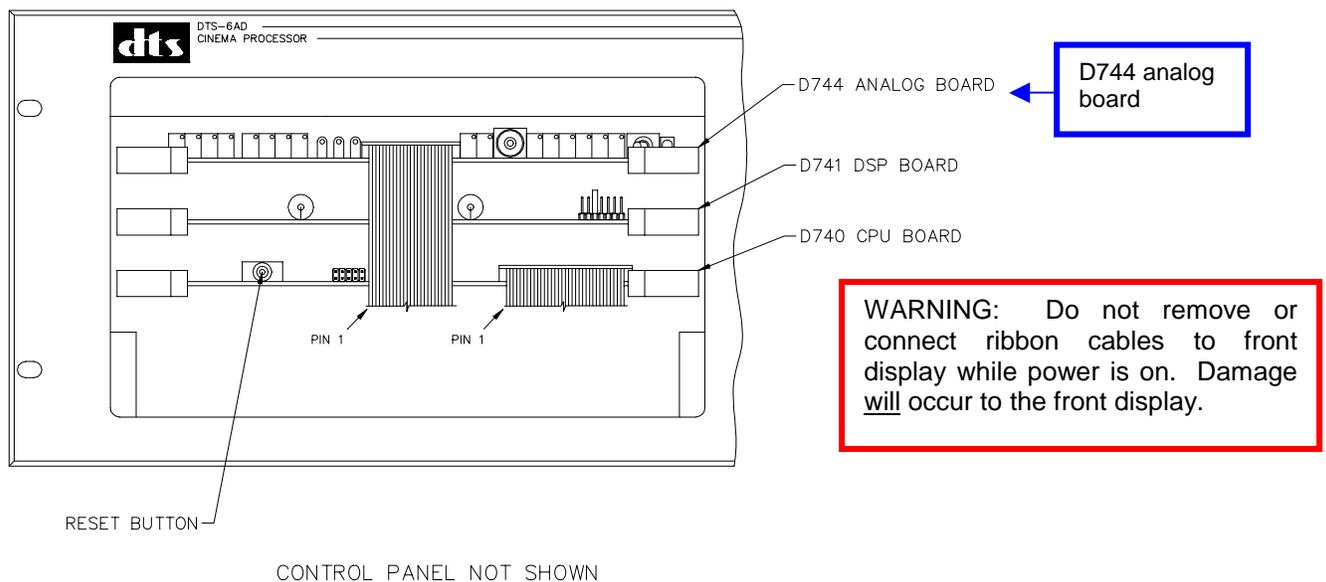DTS, 5171 Clareton Dr., Agoura Hills, CA 91301   Contact Customer Service for the latest revision.

This procedure explains what steps need to be taken when replacing a D744 analog board in the DTS-6AD and DTS-ECP cinema processors. Only a qualified technician that is trained in A-chain alignment should perform the procedure.

You will need the following equipment:

- The manual for your DTS cinema processor (CP)
- 50% modulation tone track
- Pink noise track
- RTA and calibrated microphones, or SPL meter.

Procedure

1. Power off the DTS-6AD or DTS-ECP cinema processor.

2. Open the front display. Remove the ribbon cable from D744 (top) board and take it out of the unit.

3. Visually inspect the old D744 board for the type of crossovers installed in your CP and verify that these are correct for your installation.
   - "Wideband" means you are using **external crossovers**
   - "Bi-amped" means that you are using **internal crossovers** in the CP. Internal crossovers will have a resistive value determined by the speakers used in the theater. Contact the speaker manufacturer for the "crossover frequency" for your model speaker. Then, contact DTS for the crossover value used for that frequency.
   - A standard 5.1 will have crossovers only in the stage channels.   Special Venue 6.0 units require crossovers on all six channels.

   See next page for crossover location and programming.
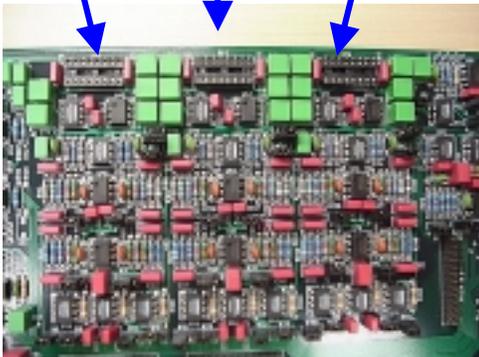
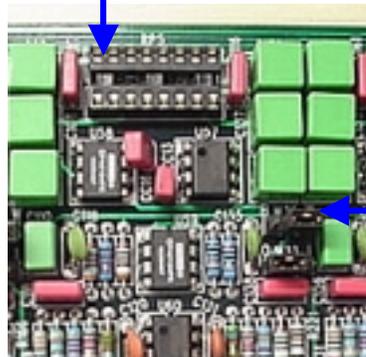DTS, 5171 Clareton Dr., Agoura Hills, CA 91301   Contact Customer Service for the latest revision.
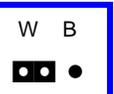
See DTS cinema processor (CP) manual page 2-7, color fold-out drawing. Look at the items in <u>yellow</u> (crossover network) and <u>purple</u> (WB/Biamp out). Once crossovers are set, carefully **match all jumpers** (see page 2-7 in manual): <u>Blue</u> (bal/unbal ext NR), <u>Red</u> (bal/unbal out), and <u>Orange</u> (screen loss EQ).

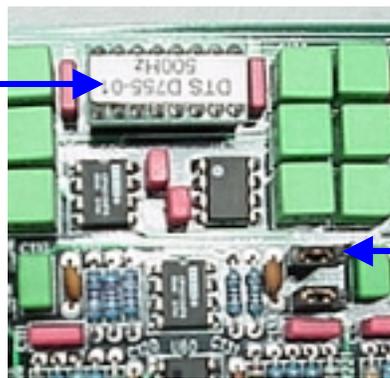> Standard units have crossovers for screen channels only.

> Each screen channel should be configured the same. If "wideband", the socket will be empty and jumper on center pin and "W"
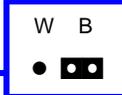
L   C   R

W   B

> If "bi-amped", the socket will have a resistor pack and the jumper on center pin and "B". The resistors used in the pack depend on the crossover frequency needed for your speakers. If needed, you may move the crossovers from your old board to the new.

W   B

4. Once you have verified that the new board has the correct crossovers and all it's jumpers are set, install the new D744 board

5. Be sure the new D744 board sits level in the side rails and is pushed all the way back until it connects securely in place.

6. Once the new D744 board is connected, reconnect the ribbon cable and front display. Then, power on the DTS-cinema processor.

7. Perform a full **A-chain** alignment (Section 6 in the CP manual) and set **levels** (Section 5.3 in the CP manual).

8. Return the old D744 board to DTS*
   *If you do not have a return authorization (RA) contact DTS Customer Service first. Have ready the serial number of the DTS cinema processor that the D744 board came from so that we can issue you a RA.

Refer questions to DTS Customer Service Technical Support

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