

TECH TALK



February 2002
Issue 2

DTS DEALER TECHNICAL UPDATES

Happy New Year!

USE OF DS3 SETUP DISC

- The DS3 disc has been available for a few months. I've received several inquiries from customers asking for clarification on using the **DS3 disc with the DTS-6AD**. When making level or EQ adjustments on the DTS-6AD the internal pink noise generator MUST be used. The DS3 disc is used to confirm the operation of the disc drives only – *do not use it to set levels in the DTS-6AD!*
- The tones on the DS3 disc should be used to calibrate the outputs of the DTS-6 and DTS-6D players to the line level of the cinema processor. For most common processors, that is **300mV RMS**. Confirm the buss level by consulting the processor's manual. All EQ and SPL adjustments should be done at the cinema processor.
- When adjusting for 300mV, use the DTS **E313-00 board** to gain easy access to the audio outputs of the players. This board connects directly to the 25-pin audio output cable and has plug-in terminals for meter probes. The E313-00 board is now part of the E486 DTS technician start-up kit and can be obtained by contacting DTS Customer Service.
- **Instructions** for using the DS3 disc are included on the disc in text or 'pdf' (Adobe Acrobat) formats. Did you know that the **Adobe Acrobat** reader can be installed for free off the internet? Go to www.adobe.com/products/acrobat/readstop.html This link is also available on our website 'techcenter' as are the instructions for using the DS3 disc. A hard copy of the instructions is attached. (See [TN-E400](#).)

DTS-6AD UPDATES

- There have been several updates to the DTS-6AD. The motherboard (back plane) has been updated to improve the grounding on **NONSYNC** inputs. This allows us to eliminate the ground loop isolators needed for locations with noise problems from very long cable runs, example: One music source distributed to multiple DTS-6AD units.
- We have added **ferrite suppressors** to the DTS-6AD packing list. These suppressors help to null electrical spikes traveling down the timecode and optical cell lines that can interfere with the DTS-6AD logic. These suppressors simply clip on and should be installed as close to the source as possible (the reader and the projector's sound cell). If you are experiencing logic anomalies during lamp strikes or when timecode is seen, order DTS P/N **2403 0007 00**. These parts are given to DTS customers free of charge.
- The current version of DTS-6AD software is **V1.06**. In the first issue of "Tech Talk," I listed the new features this new software adds. I forgot to mention that it also fixes a sound anomaly. It is therefore important that you upgrade the DTS-6AD software and remember, software upgrades are always free to DTS customers. Contact DTS Customer Service and, for new DTS-6AD system software, request the DTS-6AD System Disc.

REMOTE PANELS FOR THE DTS-6AD AND DTS-ECP

- The remote panels for both units have been released and are now currently available.

(continued)

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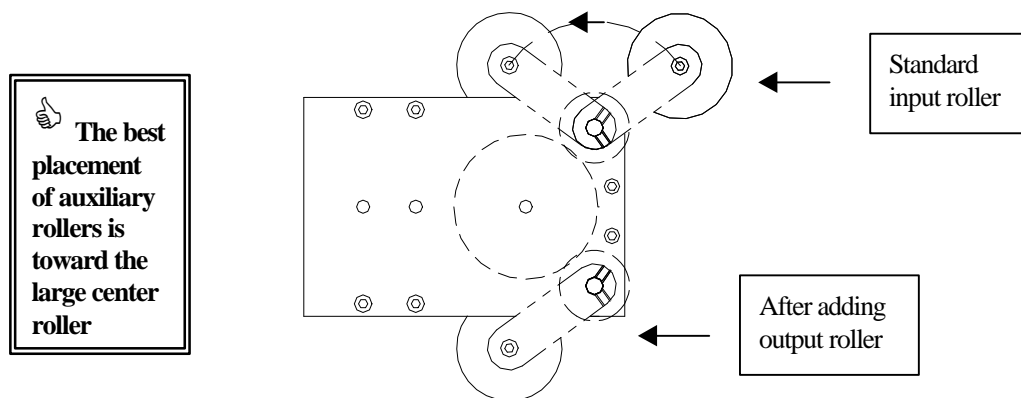
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DTS TIMECODE READERS

- The DTS Timecode Readers should be periodically checked and recalibrated, if necessary. All rollers should spin freely and not wobble. The **red LED's voltage** should be checked. That is very easy to do with a multimeter and with no film loaded through the reader.
 - 1) Simply remove the reader's back cover (where the 9-pin D-connector resides) by removing the 4 allen-head screws. Save the screws.
 - 2) Connect the meter to TP1 (signal) and TP2 (ground) on the D424 board. Connect the reader to a powered DTS player.
 - 3) Adjust R16 (trim pot on D424 Rev E and above) for 4 volts DC on the meter. If you cannot achieve the correct voltage, the LED may be damaged or aged. Older D424 boards may not have a trim pot. If the voltage is not between 3.5 and 4.5V, then do a repair/exchange on the reader.
 - 4) After adjustment is complete, re-attach the back cover.
- To ensure reliable performance, it is very important to verify that DTS readers are properly installed. DTS encoded film should always be run after a reader is installed and the installer should verify that the green light on the reader illuminates bright and steady. If the **green light blinks a lot**, steps must be taken to remedy the situation. Generally, swinging the input auxiliary roller toward the large center roller does the trick.

However, if film bounce continues to be a problem, we have found that adding a roller, at the output of the reader, helps to stabilize the film. For **DTS 35mm** readers, order E108 auxiliary roller kit. For **DTS 70mm** readers, order E163 auxiliary roller kit. (see below)



DTS SERVICE CENTERS

- We have an array of service centers around the world to service DTS customers. DTS personnel have specially trained these centers and every effort should be taken to use their services when sending repairs to the DTS Corporate office is impractical. Our service centers are listed on an attachment and are also posted on our web site. We add service centers from time to time, so please check our [web site](#) periodically.

DTS-CSS MANUAL

- DTS-CSS system and manual has been released. Please see attached "[DTS-CSS SYSTEM OVERVIEW](#)" for details on this new exciting product.

DTS ON-LINE TECHCENTER

- Updates are made continuously. Please make a habit of visiting our on-line 'techcenter' at www.dtsonline.com/cinema and click on 'techcenter' to see what's new. If you have suggestions to make the site more useful to you and your customers, please let me know!

Thank you for your support in 2001. We look forward to working with you in 2002!

Best regards,

Karen Hultgren, Customer Service Technical Specialist