

# Film-Tech

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## Installing TEAC CD-ROM Drives

Date: February 1, 1999 (updated)

Document E195

We have used only two manufacturers of CD-ROM drives: Toshiba and TEAC. This procedure is to be used when replacing a Toshiba drive with a TEAC drive. The same procedure can be used for either the DTS-6 (2-drive) or DTS-6D (3-drive) player.

### Tools Required

Phillips head screwdriver, #2

Nut driver, 5/16"

DTS Setup Disc DS1

DTS Upgrade kit: TEAC CD-ROM drives, ACQUTEC ROM board, ADAPTEC SCSI board, AQRM chip, V1.46 TCR firmware chip, hardware

1. Turn the player's power switch off. Remove the player from the sound rack and open player's top cover.
2. Remove all the drives from the player. Removal of the player's front panel may be required to access the drives. Save all screws and nuts.
3. Remove the SCSI board from the player. **The Future Domain SCSI board must be removed.** Save the #4 mounting screw.
4. Remove U12 "ROM-DOS" chip from D422 timecode board, inside the player. **D422-U12 must be removed.** See page 5.
5. Remove U14 (TCR firmware chip) from D422 board and **install new TCR firmware chip** in its place, see page 5. New firmware chip should be labeled "V1.46". When installing, check orientation of pin 1.
6. Install replacement drives. Be sure the power (4-pin MOLEX) and data (50-pin ribbon) cables are plugged in correctly.
7. Address the drives for their location. Use the "*DTS-6/D Toshiba CD-ROM Jumper Settings*" diagram. Use the drawings to match the back panel of the given drive. Remember, only the last drive should be terminated and all drives must be the same model. Look carefully at each drive, the address locations do not always line up with the panel screening. The first (left) pair of terminals is always position "0".

	<u>DTS-6D</u>	<u>DTS-6</u>	
TEAC 16X	Drive A: Jumper 2, 4, 6 Drive B: Jumper 0, 2, 4, 6 Drive C: Jumper 0, 1, 6	Jumper 2, 4, 6 Jumper 0, 2, 6	Termination programmed on Pin 4, that should be <b>removed</b> to activate.
TEAC 32X	Drive A: Jumper 2 Drive B: Jumper 0, 2 Drive C: Jumper 0, 1, 5	Jumper 2 Jumper 0, 2, 5	Termination programmed on Pin 5, that should be <b>added</b> to activate.



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8. Verify the "AQRM" chip is installed in the Acqutec ROM board. **The AQRM chip must be installed correctly.**
9. Verify the Acqutec ROM and Adaptec SCSI boards are addressed as shown on page 6.
10. Install the Acqutec ROM and Adaptec SCSI boards. **These boards must be used.** See the "DTS-6D" diagram for board orientation. It will be the same for the DTS-6 or DTS-6D. Use the saved screw from the old SCSI board and a new #4 screw to mount both boards to player's chassis.  
NOTE: Bottom metal tab must be cut off for boards to fit correctly into unit.
11. Connect SCSI cable to Adaptec SCSI board. Check orientation of pin 1.
12. Apply power to player. Test the player by loading in the DTS DS1 Setup Disc. The player should boot-up and automatically play the disc. Be sure the DIGITAL and CD-ROM L.E.D.s light. *Check each drive.* **All drives must be the same manufacturer.**
13. Re-install the top cover and re-install the player into the sound rack.

Refer questions to DTS Technical Services

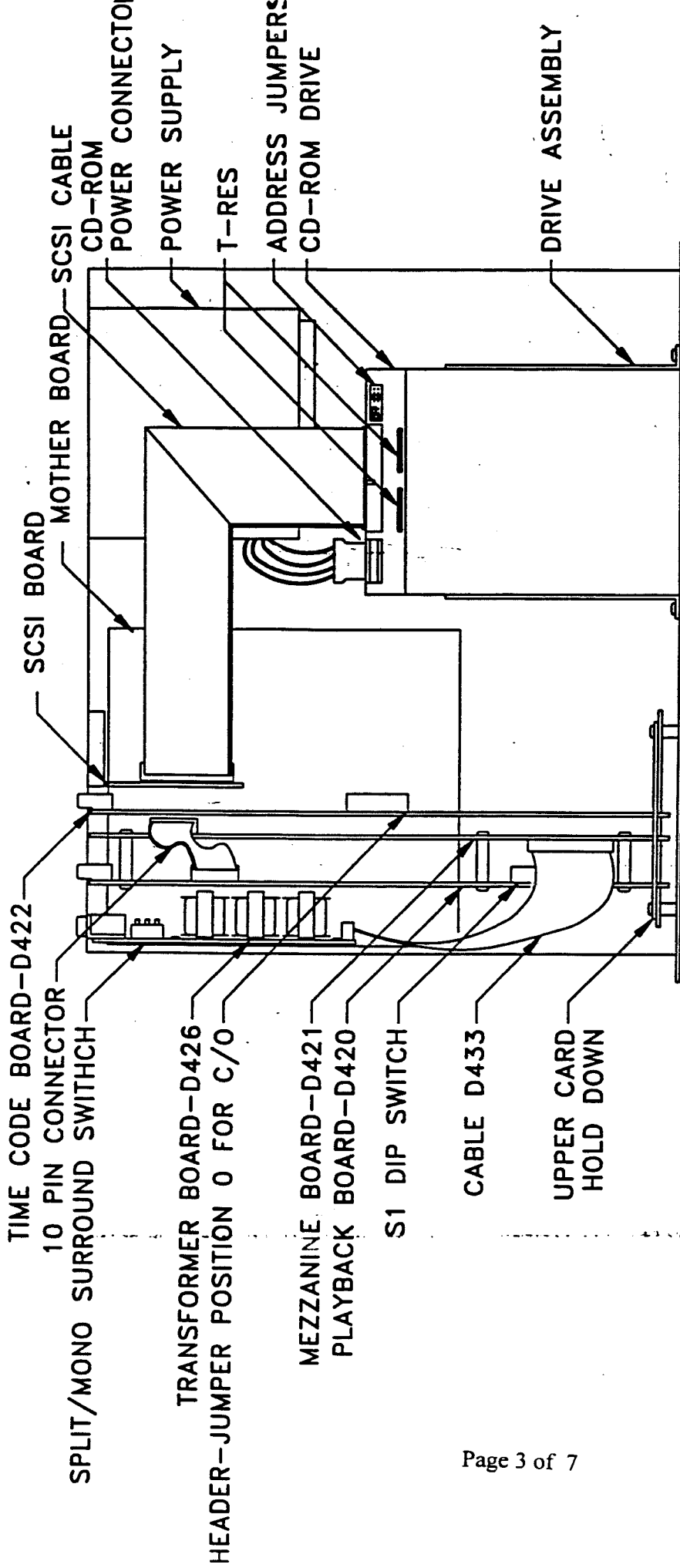
Telephone: (800) 959-4109 or (818) 706-3525

Fax: (818) 706-1868

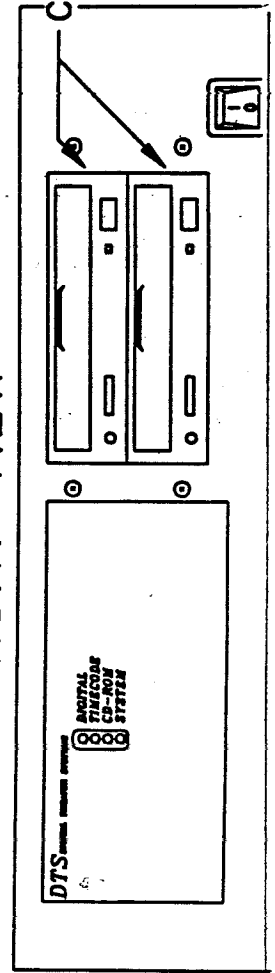
Email [cinematech@dtsonline.com](mailto:cinematech@dtsonline.com)

DTS web site <http://www.dtsonline.com>

# DTS-6 Top View



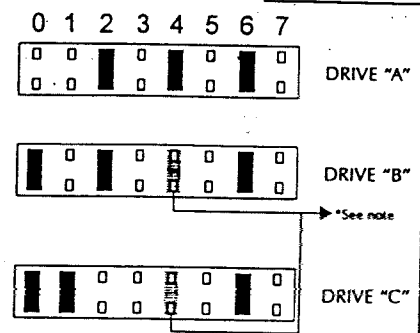
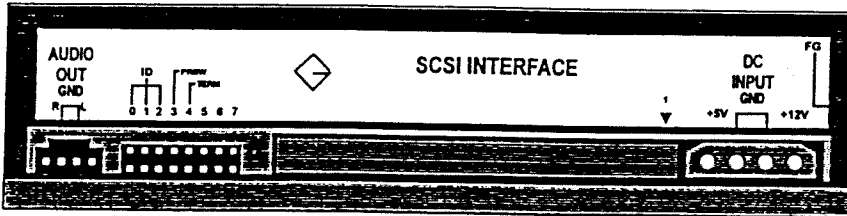
## FRONT VIEW



# DTS-6(D) TEAC CD-ROM Jumper Settings

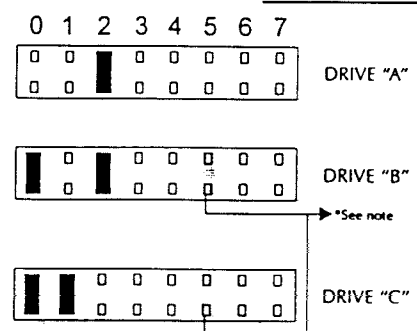
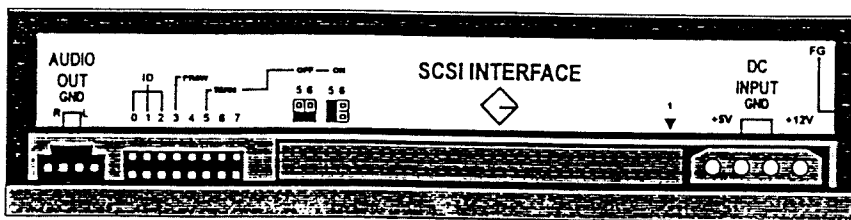
Revised 7/28/98

## 16X TEAC



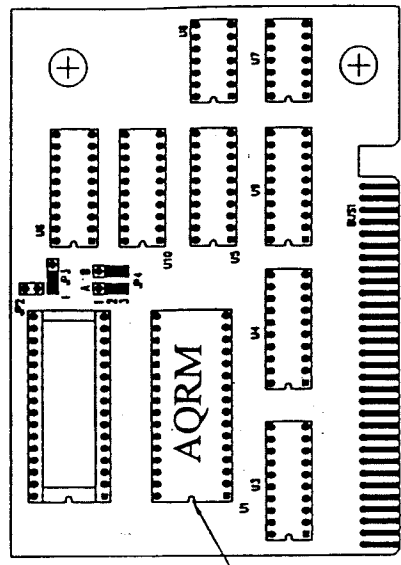
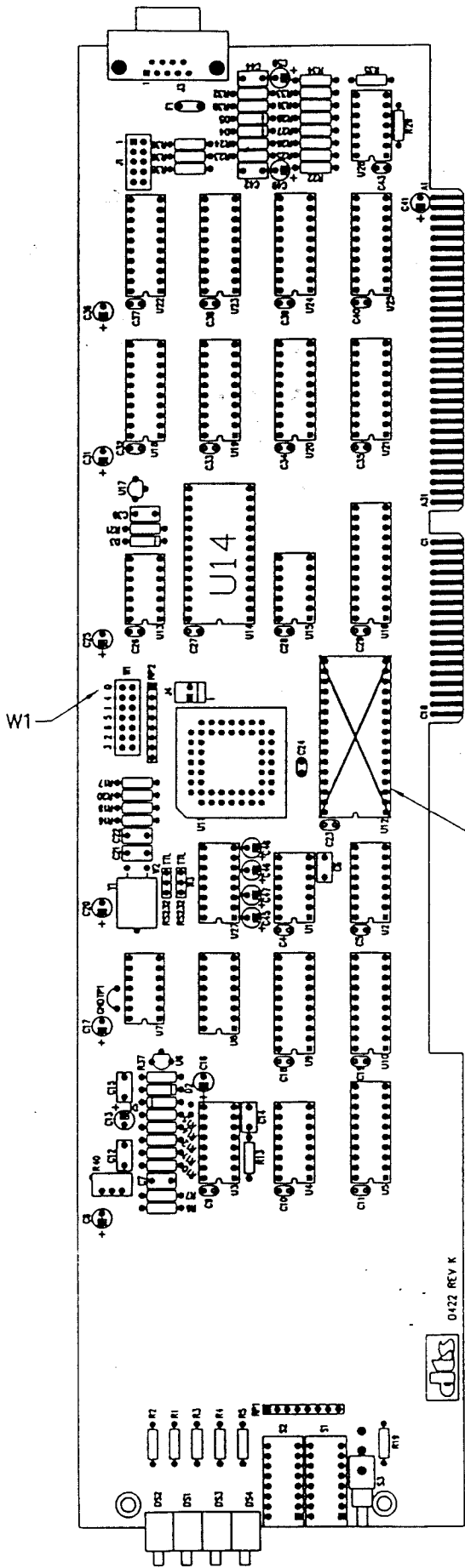
\*If you have a 2 drive unit:  
REMOVE jumper over "TERM" on drive B, otherwise REMOVE the jumper on drive C.

## 32X TEAC



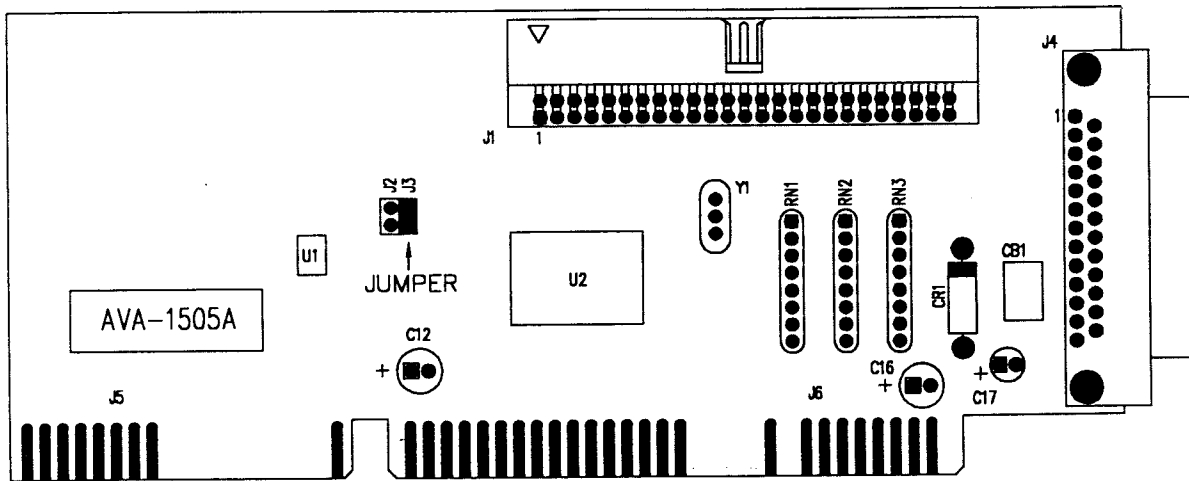
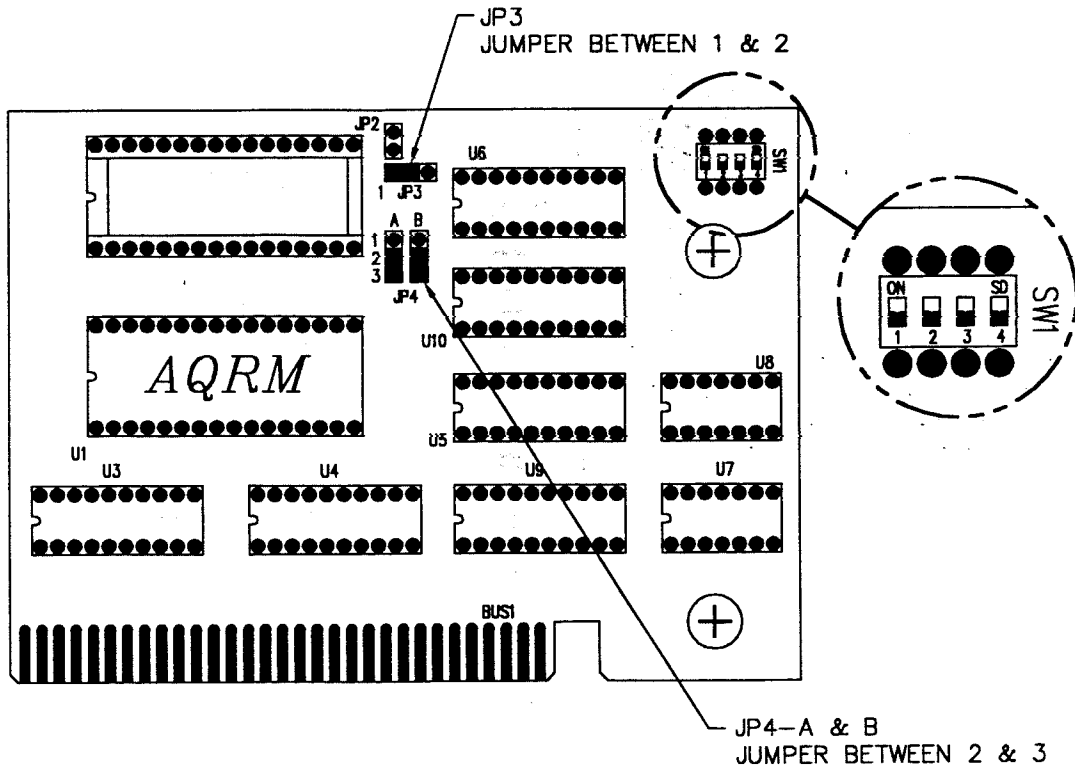
\*If you have a 2 drive unit:  
Place jumper over "TERM" on drive B, otherwise use drive C.

Acqtek Card



"AQRM" chip installed

Remove U12 "ROM-DOS" chip,  
if Acqtek card is installed



# DTS-6D Top View

