

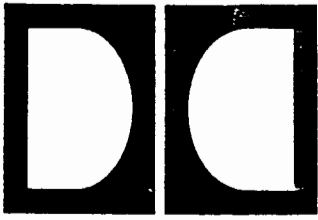
# FILM-TECH

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# DOLBY LABORATORIES INC

Field Bulletin No. 144

## DOLBY LEVEL MATCHING WITH NEW RELEASE PRINTS

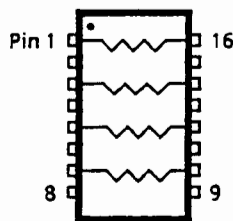
**Subject:** CP200 units with Dolby MPU installations experiencing difficulty in matching Dolby Level with newer release prints.

**Note:** With the exception of "The Last Starfighter," all 70mm prints since "Return of the Jedi" have used either FPC or a new Magnecraft oxide formulation. This has allowed an increase in recording level from 80-90nWb to 185nWb. The increased recording level combined with the use of new and more efficient playback heads has resulted in an increased output of approximately 10 dB.

**Symptom:** Insufficient attenuation to match Dolby Level with mag preamp potentiometers at lowest setting.

**Remedy:** Installation of 22K resistors in place of straps in 100 mV headers on Cat. No. 201 magnetic input card. This modification will attenuate level by approximately 5 dB while allowing for the best playback quality, signal to noise ratio, and compatibility with older recordings.

- Procedure:**
- 1) Check Dolby MPU gain links on backplane. They should be set to the high-gain position.
  - 2) Remove Cat. No. 201 from CP200. Locate and remove headers. Only the top two headers need to be removed when only projector one is used.
  - 3) Prepare new headers with 22K, 5%,  $\frac{1}{4}$  watt, resistors as shown in the illustration. Resistor values are not critical, but 22K will cause 5 dB attenuation. On certain models of LIPPS heads, the value will have to be increased to provide sufficient attenuation.



- 4) Replace headers in 100 mV position.
- 5) Replace Cat. No. 201. Check for proper operation by running Dolby Tone loops and adjusting Dolby Level. You should be able to reach Dolby Level at close to maximum gain on Cat. No. 92 gain trimpots.

If you have any questions about this Field Bulletin - call Dolby Laboratories at 415-392-0308 prior to attempting to execute these instructions.

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