Film-Tech

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Dolby Laboratories Inc

Field Bulletin 196

Model CP45
Remote Fader / Front Panel Fader Level Matching

- ☐ Modification Urgent
- ☐ Modification Recommended
- ☒ Modification Required if Problem is Present
- ☐ Modification Required on Early Units
- ☐ Information Bulletin

The CP45 Installation and Alignment manual describes the wiring required for a customer-supplied remote fader pot. If your theater has a remote fader and if it is adjusted to the same setting as the front panel fader, then you may be experiencing a volume change when switching the CP45 between the remote fader and the front panel fader. This bulletin describes the addition of a resistor to solve this problem.

Additionally, this bulletin provides new information on connecting and adjusting the Dolby-produced remote unit, Cat. No. 516.

A. Customer-Supplied Remote Fader Pot

Symptom

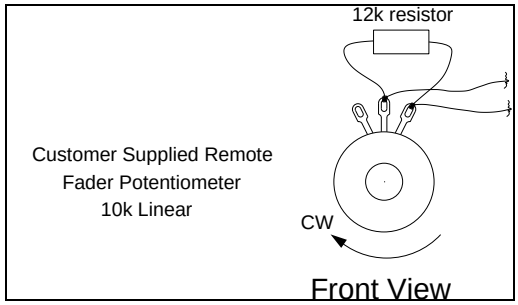
- The volume changes when the CP45 is switched between front panel and remote fader operation when the two faders are set to the same position.

Affected Units

This bulletin applies to CP45s with serial numbers 600 and above, and CP45s with serial numbers 500001 and above.

Cure

1. Switch off the CP45 and gain access to the terminals of the remote fader pot.
2. Remove the link between the center terminal and the clockwise terminal.
3. Solder a 12k resistor in parallel with the pot as shown.



4. Carefully check that all solder joints are secure and that there are no short circuits.
5. Set the front panel and remote faders to the same position and, while playing a film, confirm that the volume remains the same when switching between them.

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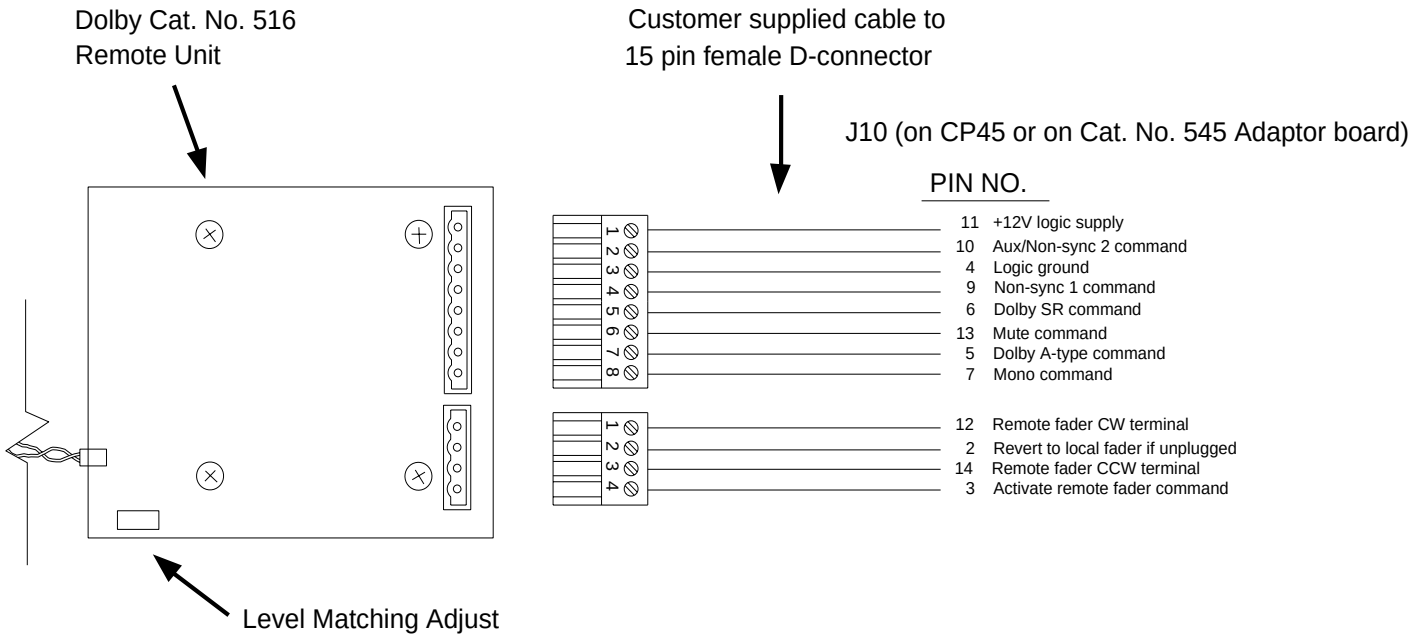
B. Dolby Cat. No. 516 Remote Unit Installation and Adjustment

The Remote Unit contains a built-in level matching control. The procedure for adjusting this is shown at the end of this section.

Installation



Wiring connections to the Cat. No. 516 remote unit.

1. Remove the four cover mounting screws on the Remote unit and remove the cover/PC board assembly.
2. Mount the remote box where desired.
3. The box contains an entry hole for mounting the appropriate metal conduit containing the wiring. Follow all local electrical and building codes.
4. The wiring between the screw terminals on the remote end and the 15 pin D-connector on the CP45 end (plugs into J10 on the CP45 rear panel) is shown in the above figure.

   Note: *The 15 pin D-connector can be plugged into J10 on the CP45 back panel or into J10 on the Cat. No. 545 automation adapter board, if installed.*

Level Calibration

This procedure adjusts the remote unit fader level setting to be the same as the CP45 front panel level setting.

1. Set the CP45 format to mono (Format 01).
2. Play a loop of pink noise test film Cat. No. 69P.
3. Set the front panel fader on the CP45 to 7 and monitor the level in the auditorium.
4. Select the remote fader and set it to 7.
5. Locate the small trimpot shown in the figure above and adjust it until there is no change in loudness when switching between the remote fader and CP45 front panel fader.

Note: Pin 11 on J10 of the CP45 (+12V logic supply) has a fusible resistor in series. It is located on the Cat. No. 511 card. If the connection to Pin 11 is inadvertently grounded for any length of time, this resistor may open circuit. The LEDs in the remote will not work but the remote itself will continue to function as normal. This resistor is Dolby part no. 11390. To replace the resistor, open the front door of the CP45 and locate the large board on the right hand side. Remove power then unlatch and remove the board at the front. The fusible resistor is R604 which is 40mm (1½") away from pin 1 of the large 48 pin IC. The replacement resistor should be soldered with at least 6mm (¼") space between the body and the board so that overheating does not damage the board. Carefully replace the Cat. no. 511 board in its socket, re-apply power and check that the remote LEDs now function. If the resistor burns again check the wiring to the remote connector.