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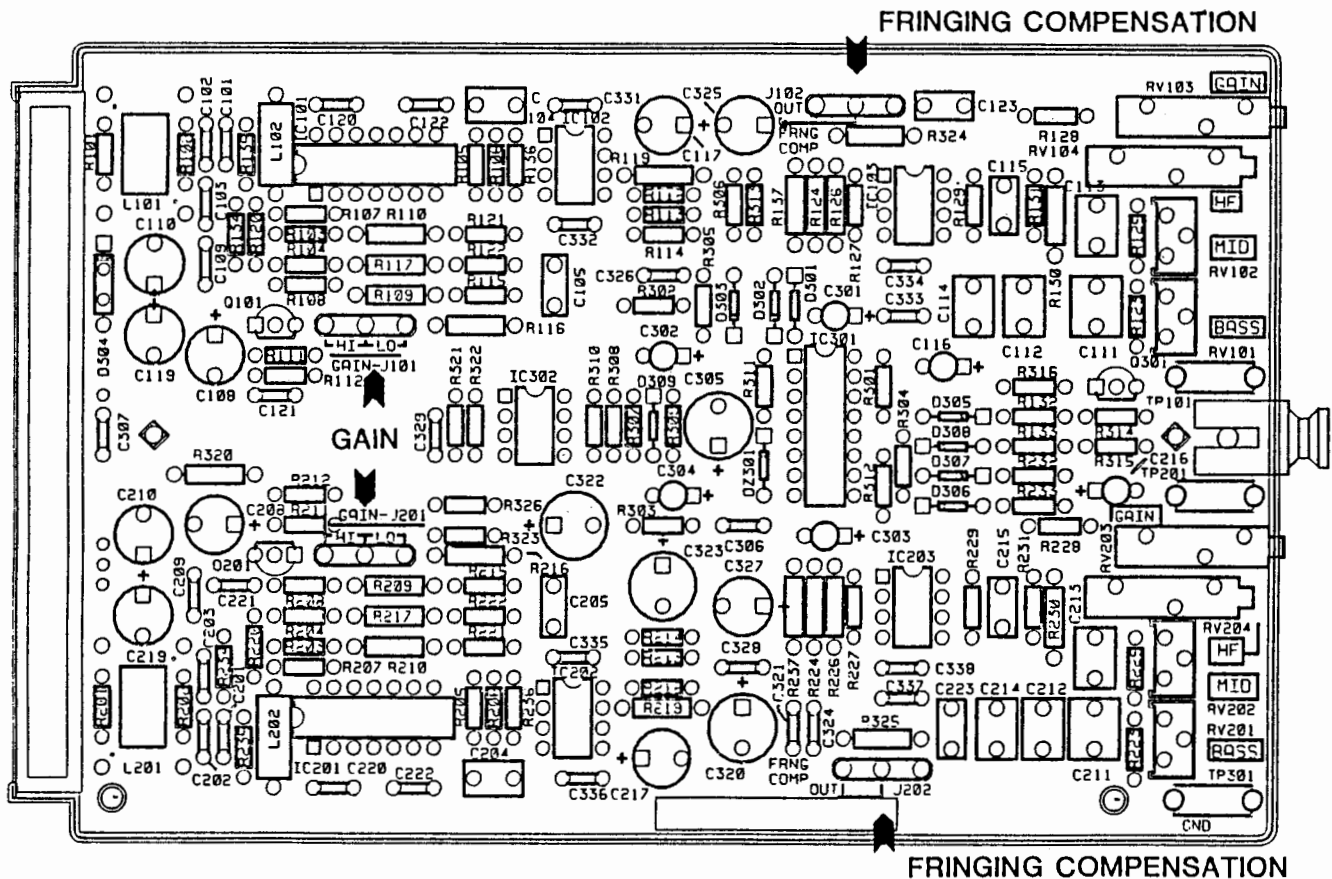
Dolby Laboratories Information

Cat. No. 92C Installation Instructions

The new Cat. No. 92C magnetic preamplifier replaces all previous versions of the Cat. No. 92. Although physically compatible with older models, the Cat. No. 92C contains a number of new features and improvements. Two useful features are power-up muting, allowing the circuitry to reach normal operation silently, and a revised layout which eliminates the need to use a card extender during set-up.

The Cat. No. 92C was optimized for current 70mm magnetic recordings and magnetic playback heads (2-10 mH inductance) with an eye toward future playback requirements. It will also provide improved performance when used with older magnetic recordings and playback heads.

Before installing the Cat. No. 92C, please take a moment to become familiar with the new layout and features. (See figure below.) Also, before installing the new modules in the MPU frame, please run through the checklist below.



Signal Processing and Noise Reduction Systems

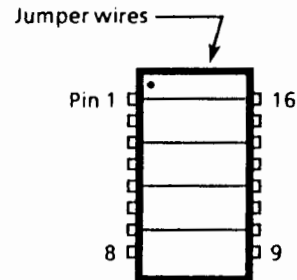
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I. Initial Set-up

1. Locate MPU backplane gain straps. Set for high gain. **The Cat. 92C will not operate in low gain.**
2. Locate the two gain setting suitcase links on each Cat. No. 92C. Set initially for high gain.
3. Locate the two fringing compensation suitcase links on each module. Set links for "out" when used with full-width heads (0.070 inch track width), such as Teccon and others. Set links for "in" when used with narrow width heads (0.050 inch or smaller track width), such as Ampex, Lipps, Philips, etc. When in doubt, consult the individual manufacturers or Dolby Laboratories for advice.
4. Set gain and gap loss trimpots for minimum gain initially.
5. Set mid- and low-frequency controls to mid position initially.
6. When used with a CP200, check the Cat. No. 201 gain headers. For best results, restore these headers to their original, unmodified (pre Engineering Field Bulletin No. 144) 100 mV condition.
 - a. Remove Cat. No. 201 from CP200. Locate and remove the 16-pin DIP headers used for setting gain range. Only the top two headers need to be removed and modified when only projector one is used.
 - b. Prepare new headers (or modify the existing ones) with jumper wires instead of resistors as shown in the illustration.
 - c. Replace the headers oriented to the 100 mV position.
 - d. Replace Cat. No. 201. Check for proper operation by running Dolby tone loops and adjusting Dolby level.



II. Alignment

The following instructions describe in general how to obtain the best mechanical and electrical alignment. While intended specifically for 70mm applications, they will also serve as a guide for other similar applications.

1. Run a 185 nWb/m tone test film, such as Dolby Cat. No. 132 Dolby Tone, Teccon part #7000, or other film known to be recorded at this flux level.

2. Adjust gain on Cat. No. 92C for proper indication on Dolby level meters when the CP200/CP100 is set to a non Dolby magnetic format, such as 40.
3. Adjust head height for highest output, as observed on the Dolby Tone meters and/or an RTA. Reset the gain jumpers to low, if gain trimpot cannot set the tone level sufficiently low. Reset for proper Dolby Tone level.
4. Run 3180/35 μ s pink noise test film, such as Dolby Cat. No. 131, Teccon part #7004, or other suitable pink noise test film.
5. Adjust azimuth, zenith, etc., for the best high-frequency and phase response, as viewed on an RTA and oscilloscope. Channels two and three are the best choice for initial azimuth settings. This is invariably the most difficult part of the procedure, as each projector and head assembly have particular methods for obtaining these adjustments.
6. When no further improvement can be made by mechanical adjustments, adjust mid frequency, low frequency, and gap loss controls, in turn, on each preamplifier for the best flat frequency response.
7. Again run a Dolby level test film and verify correct Dolby level.
8. Run a sample of a 70mm feature in order to verify proper operation.

Please call Dolby Laboratories, should you require assistance or have difficulty with any of these procedures.