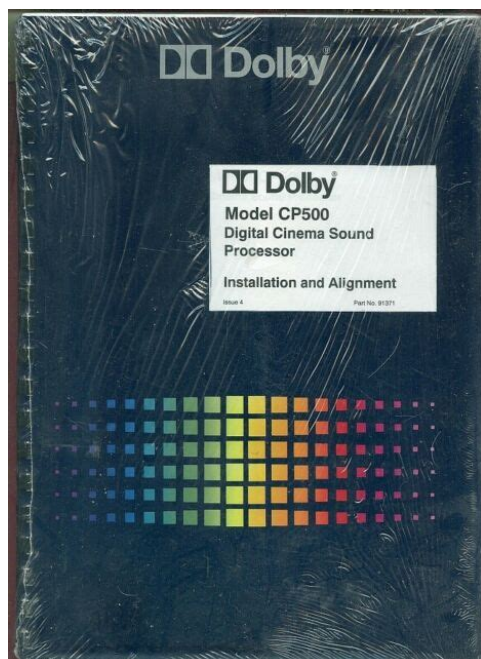


Dolby Cp500 Installation Manual



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Dolby Cp500 Installation Manual

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E5 The CP500 Digital Cinema Processor maintains that tradition, setting new standards for performance, value, flexibility, and convenience. Entirely selfcontained, the CP500 provides both Dolby Digital and Dolby analog processing built in. An easytoread LCD screen and uncomplicated front panel soft keys makes it easy to install, operate, and maintain. Software that can be readily programmed, controls any existing or future format. Builtin test instrumentation that includes a real time analyzer make the CP500 easier to align and calibrate than conventional processors. No external PC is required for setup. Once aligned, calibration settings can be password protected to prevent misadjustment. Builtin diagnostic software enables theater staff to verify performance of the complete theater sound system. Calibration settings for a given theater can be stored on a PC, and should the need ever arise, they can be transferred directly to another CP500 or other modules, thereby reducing or eliminating the need for further calibration after repairs. As improvements to the CP500 digital control and processing software are developed, the latest revisions can be downloaded from a PC to the CP500 hardware. Moreover, updates to the audio coding used for Dolby Digital soundtracks, which are included from time to time on Dolby Digital release prints, download automatically into the CP500 the first time such a print is played in the cinema. The basic daytoday operation of the CP500 is covered in the CP500 Users Manual, Dolby part number This

installation and alignment manual covers the procedures necessary to ensure that the theater sound system is accurately aligned to standards that have been established by Dolby Laboratories. Following these procedures will ensure that the theater sound system will accurately reproduce the soundtrack as the director and sound mixers intended. The Dolby CP500 is the central element of the theater sound system. <http://www.murrayhaventocumwal.com.au/userfiles/10b2-calculator-manual.xml>

The projector, the Dolby Processor, the power amplifiers and the loudspeakers, as well as the auditorium itself, must all be considered when aligning the system for optimum performance. The system alignment procedure is divided into two parts. The Bchain alignment includes the equalization, loudspeaker crossover, and output level adjustments, in addition to the regulation of miscellaneous functions, such as fadeout time adjustment. The Achain alignment involves adjustments made to the projector soundhead optics, solar cell, and optical preamplifier card. Signal Connections a. Standard 9 pin Dtype connectors for Mic., Optical 1, Optical 2, Serial Data, and Motor Start signals. b. Standard 25 pin female Dtype connectors for Digital Readers 1 and 2, Accessory Unit, Automation connections, and 6 Channel Analog Inputs. c. RCA type phono jacks for Nonsync 1 and 2. d. Phoenix screw terminal connectors for processor outputs, bypass power, and remote control connections. Signal Inputs a. 6 Channel Six analog inputs for use with external magnetic preamplifier or external processor, 300 mv operating level. Requires optional Cat. No. 685. b. Optical Two pairs of balanced inputs for two projectors with stereo solar cells available from Dolby Laboratories mounted on brackets for most projector types. Inputs compatible with LED illuminated reversescan analog readers. c. Nonsync Two stereo inputs for nonsync sources. 50 kohm input impedance, 50 mv to 2.5 V sensitivity. 24 decoder may be used to decode Dolby Surround program sources. d. Microphone One balanced input for Bchain equalization P.A. mic. or multiplexer and one unbalanced input for house announcement mic. e. Dolby Digital Film Reader CP500D Two inputs for connection to penthouse or inboard readers. Typical operating level, 10 dbu. Operating levels from 25 mv to 0.7 V may be accommodated. Output For Hearingimpaired System Centerweighted sum of L, R, C for connection to auxiliary system for the hearing impaired.

Output impedance is 47 ohms with a fixed output level of 200 mv. Optical Preamplifier A Cat. No. 661 Optical Preamplifier accepts signals from two projectors with stereo solar cells. Gain and slit loss adjustments are digitally controlled. Noise Reduction Two channels of Dolby Atype noise reduction and two channels of Dolby SR are provided as standard. Up to six channels of Atype CP50070 and two additional channels of studio SR CP can be accommodated. Four Channel Decoder Cat. No. 675A DSP Module decodes left, center, right, and surround channels from the two optical tracks on Dolby analog optical prints. Adjustable delay to optimize front to surround separation. A provision is also made for a temporary auditorium fader consisting of a 100k potentiometer. Automation Direct mode allows eight contact closures to ground for selecting formats. Sequential mode allows a single contact closure to ground for sequencing preprogrammed formats. Distortion Typically 0.05% in Dolby SR mode Format 05, with output operating level set to 10 dbu and input 10dB over Dolby level. Dynamic Range Typically 92 db with fader set to 7.0. Dimensions Four units high rack mount chassis. Operating Conditions 040 o C, % humidity, noncondensing. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his or her own expense. UL The CP500 is UL listed. This installation manual is for use by qualified personnel only. To avoid electric shock do not open the unit or perform any servicing unless you are qualified to do so.

WARNING Check that the correct fuse has been installed. To reduce the risk of fire, replace the fuse only with the same type and rating. FUSE 2 Amp, timelag T2A, 20 mm long, 250 Volt Dolby part no The ground terminal of the power plug is connected directly to the chassis of the unit. For continued protection against electric shock, a three-pin, correctly wired and earthed power outlet must be used. Do not use a groundlifting adapter and never cut the ground pin on the three-prong plug. The core that is coloured blue must be connected to the terminal that is marked with the letter N or coloured black. The core that is coloured brown must be connected to the terminal that is marked with the letter L or coloured red. This unit complies with the EMC requirements of EN and EN when installed in an E2 environment in accordance with this manual. To ensure safe operation and to guard against potential shock hazard or risk of fire, the following must be observed o If the unit has a voltage selector, ensure that it is set to the correct mains voltage for your supply. If there is no voltage selector, ensure that your supply is in the correct range for the input requirement of the unit o Ensure fuses fitted are the correct rating and type as marked on the unit. Voor een veilig gebruik en om het gevaar van elektrische schokken en het risico van brand te vermijden, dienen de volgende regels in acht te worden genomen o Controleer of de spanningscarroussel op het juiste Voltage staat. Dualtrace oscilloscope with XY facilities minimum bandwidth 20 MHz, 50 MHz recommended. Calibrated microphone preferably multiple microphones and a multiplexer. Sound pressure level meter with slow timeconstant and C weighting scale. Voltmeter for measuring the exciter lamp power supply. Test Films, available from Dolby Laboratories or equipment dealers Figures 21 through 27. No Sync Test Cat. No Channel ID Cat.

No Dolby Level If airconditioning noise is audible in the theater, arrange for lubrication of the motor, fan bearings, adjustment of belts and drives, and cleaning of filters to reduce the ambient noise to a minimum. If the airconditioning cannot be repaired switch it off while the CP500 is being aligned. **3.1 Replacing an Existing Sound System** If the CP500 replaces an existing cinema sound system, play a typical film before you remove the old system so you will have a benchmark for comparison to the new system. It can also serve as a check of the positioning of the exciter lamp, the focusing of the soundtrack lens, and the condition of the solar cell Before playing the film Verify that the existing power amplifiers are in good working order. Verify that the existing speakers are in good working order, and that there is no loose or missing hardware, structural parts, or damaged drivers in the enclosures. Verify that all wiring is present and properly connected and that crossovers are operating and are correctly adjusted. Check the polarity of the speaker connections. Verify that there are adequate earth ground connections. Verify that radio interference problems are adequately resolved While playing the film While you run the film, listen carefully in various parts of the theater for audio system problems Hum. Noise, clicks, pops. Distorted sound. Poor tonal balance lack of highfrequency or bass content. These problems must be resolved before you can proceed with the new installation Disconnect the old system Disconnect power from the existing cinema sound equipment. Disconnect all cabling from the existing sound processor. Leave the cables connected to the power amplifiers, booth monitor, etc. Install an air guide or baffle to deflect hot air from equipment below the CP500. To ensure good ground contact, install star washers on all or at least one rack mounting screw per piece of equipment Figure 31. This will also aid in the prevention of electrical noise problems.

Figure 31. Install star washers to rack mounting screws. Proper shielding and termination of cables and cable assemblies are also very important. Be sure to follow the methods shown in the wiring diagrams. If you are installing a Dolby Cat. No. 700 Digital Soundtrack Reader, refer to its installation manual for mounting and alignment. **3.3 Connect the CP500** Refer to the appropriate foldout page at the end of this section showing connections to the various CP500 model

configurations. Make output signal connections by inserting stripped and tinned leads into the supplied cable connectors and tightening each lead in place by means of the integral set screw. The cable connectors are then plugged into place at the corresponding locations shown on the foldout wiring diagram. Shields must be connected as shown in the fold out page to avoid radio frequency interference. NOTE Follow all local codes and regulations covering electrical wiring. It is recommended that conduit be used for wiring runs. Green plastic connector shells have been included in your installation kit for use in countries which are governed by the EMC directives. The shells must be used as noted on the foldout pages. Digital data on the soundtrack is read in advance of the picture, therefore an advanced changeover signal is required see Appendix C. Projector motor start contact closures provide this signal to the CP500. Isolated contact closures from mechanical or optoisolated relays wired across projector motors must be used. Refer to the Installation Wiring Power and Control diagram at the end of this section. Signal levels Motor Start Less than 1 Vdc with respect to signal ground. Motor Off Greater than 3.5Vdc, less than 18Vdc. Refer to the unit connections foldout diagram for details located at the end of this manual. For single projector installations, a prewire connector is supplied Connect Remote Controls The CP500 is equipped for use with three types of remote controls the Cat. No. 689, and Cat. No.

734, which are offered by Dolby Laboratories, and an auditorium fader, which can be made from parts purchased at an any electronics store. The Cat. No. 689 CP500 Remote Control duplicates the front panel format selection, fader, and mute controls of the CP500. The Cat. No. 734 CP500 Remote Fader consists of a shaft encoder with LEDs to indicate the fader setting. The auditorium fader is a 100k linear pot wired as a variable resistor, with minimum resistance corresponding to fader 10. Details on how to connect any of these remotes to the CP500 are shown in the Installation Wiring Power and Control drawing located at the end of this section. Some care needs to be given to the wiring between the board and the CP500 in order to avoid grounding problems and to provide immunity to RF interference. In principle, this means separating the audio ground connections and the RF shielding screen connections. The 0V point audio ground must be connected from the basement reader card to the CP500 by a separate wire or wires along with the audio signal wires. The cable shield screen must be kept separate from the audio ground connections. It must be connected only to the chassis or enclosure of the equipment at each end. The following diagrams Figures 32 and 33 show two connectors on the board. The three pin connector, J1 is used for the power supply. NOTE The following tables show the Right channel appearing on pins 1, 2, and 3 of the 6pin connector J2. The physical orientation of the board mounting in the projector and the orientation of the connector body mounting on the board affect which channel appears on which pins of the connector. Be aware that pin allocations for the channels will vary depending on mounting arrangements of the board and connector. This connection must not use the shield of the optical input cable, otherwise RF energy can be imposed on the CP500 ground system. The wire that connects either of these pins to the Cat. No.

655 audio ground should pass inside the same shield as the optical input cables and not connect with the shield at any point. When J2 is set to P1, Projector 1 is selected at power up. When J2 is set to P2, Projector 2 is selected at power up. If the optional Cat. No. 683 is not present, these jumpers should be set to the NO position. The jumpers are set to the NO position at the factory. NOTE If bypass audio is routed to the optional Cat. No. 683 crossover card, the bypass portion of the crossover circuitry must be functioning in order to produce a bypass audio output. J900 Bypass Calibration This jumper inserts a calibrated pink noise signal into the bypass system for level and optional crossover adjustments. The calibration signal is enabled when the jumper is in the BCAL position and is disabled otherwise. J902 J2 NOTE It is important to move the jumper to the disabled position after calibration is complete so that the bypass signal path remains completely isolated from any possible erroneous signals in the signal path. The jumper provides a coarse gain setting and the potentiometer provides a fine gain adjustment. The HI jumper position can be used to produce a

higher output level range on the bypass channel. This jumper is factory set to the LO position. NOTE If Cat. No. 683 Crossover card is installed, the preferred setting for this jumper is HI. Signals below this frequency are attenuated in order to prevent distortion or damage to surround speakers that are unable to handle extreme low frequency energy. NOTE The function of the Bypass Output Level control changes to Bypass Low Frequency Balance Control if a Cat No. 683 Crossover Card is installed. 24 38 Cat. No. 683 Crossover Card Optional CROSSOVER FREQUENCY SETTING HEADERS Freq setting for large horn is shown. LEFT RN Hz RN600 BYPASS 500 Hz CENTER RIGHT RN302 RN Hz 500 Hz ACTIVE LEFT SURROUND RIGHT SURROUND BASS SPEAKER CROSSOVER FREQ SELECTOR RN Hz 100 Hz CAT. NO. 683 Figure 37. Cat. No.

683 Crossover Frequency Setting Headers. Crossover Frequency Setting Headers Screen Channels RN102 Left Channel RN202 Center Channel RN302 Right Channel RN600 Bypass These headers select the desired crossover frequency. For large horns, the correct setting is usually 500 Hz. For small horns, 800 Hz is usually correct. Check the loudspeaker manufacturer's specifications for details. Be sure to select the same Bypass crossover frequency header as the screen channels use. The headers are shipped with each card. NOTE Custom settings are possible. See Appendix B, Cat. This compensates for the time offset caused by high frequency drivers being behind the low frequency drivers in contemporary stage speakers. There is no low frequency delay when the jumper is set to NO DELAY. The factory setting is DELAY. Low Frequency Time Delay Setting Headers RN101 Left Channel RN201 Center Channel RN301 Right Channel For large horns, the correct delay setting is usually 1.9 ms. For small horns, 0.8 ms is usually correct. Signals below this frequency are sent to the surround channel low frequency drivers. Both the Cat. No. 682 Output card and the Cat. No. 683 have reversible filter headers for the surround channels. Ensure that the headers on both cards are set to the same frequency, chosen to suit the low frequency handling capability of the surround speakers in use. If you have surround bass drivers, it is probably best to set both headers to 100 Hz in order to improve the low frequency power handling ability of the surround channel. The factory setting is 50Hz. The HI setting has approximately 12 db higher output level than the LO setting. The factory setting is LO. 26 Install Circuit Cards Card Descriptions If they are not already installed in the CP500 unit, install all of the cards for your system as shown below for each CP500 version. Note that the noise reduction modules Cat. No. 222SRA are shipped uninstalled. This is to prevent damage during shipment due to their weight.

Should it ever be necessary to ship the CP500 again, be sure to remove these from the unit and pack them separately. NOTE Cat. No. 222SRA modules are primarily intended for playback of 35mm photographic soundtracks, and have headroom capabilities based on that medium. As a result, use of Cat. No. 222SRA modules are not recommended for playback of 35 mm magnetic printmasters or SR encoded 70mm magnetic film. Contact Dolby Laboratories for further information. Projector select logic. Provides slit loss equalization. Cat. No. 681 Input Switch Card Stereo analog multiplexer for selecting signal to be fed to noise reduction cards. Audio sample rate clock. Cat. No. 675A Digital Signal Processing Cards 2 Matrix decoder for Dolby ProLogic. Nonsync processing. Signal generation and signal analysis functions. Nine band octave equalization for L and R surround channels. Contains treble and bass control circuits. Generates hearing impaired output and midsurround output. Contains bypass power regulator and output amplifier. Cat. No. 684 System Controller Card Must be present for level control in bypass mode. Bypass will function at a fixed level if this card is not present or operational. 27 311 Contains Microprocessor. Controls front panel display and controls. Contains interface for remotes and automation equipment. Cat. No. 683 Crossover Card Optional Provides active high and lowpass filters on L, C, and R signals for biamplified installations. Provides low frequency surround channel outputs. Provides low frequency delay for time alignment of L, C, and R low frequency drivers. Contains bypass crossover and must be present for bypass operation in biamplified systems. Dolby Digital Soundtrack Processing System Cat. No. 670 Video Frontend Card Digitizes the video data received from the film soundtrack reader.

Cat. No. 671 DSP Cards 2 Processes the digitized video data and extracts the AC3 bitstream. Cat. No. 673 System Services Card Contains the operating software. Cat. No.

675A Digital Signal Processing Card This additional Cat. No. 675A provides Dolby AC3 decoding. Cat. No. 680 Bit Rate Converter Card Converts PCM audio from the variable projector rate clock to a stable PCM audio sample rate. Used primarily in preview theaters and studios. Model CP500SR Contains the same boards as the CP500D above except without the Dolby Digital soundtrack processing system cards. Model CP Contains the same boards as the CP500D, and additionally Cat. No. 222A Modules 2 Provides four additional channels of Dolby A type noise reduction bringing the total number of noise reduced channels to six. Cat. No. 669 Adapter Card Used for installing the two Cat. No. 222A cards above. Cat. No. Channel Analog to Digital Converter Card Used for external 6 channel analog inputs. 28 Bypass Power Wiring For emergency operation, the CP500 comes equipped with an independent external mains power module. If the main power supply or processor circuitry fails, the unit will automatically switch to bypass operation, allowing the show to continue with limited sound processing functions. In some countries the primary cable for the module may not have a mains plug fitted. These unterminated leads must be as follows Brown wire Live or hot Blue wire Neutral NOTE If you are uncertain about the wiring of your mains outlet do not use it. Consult a qualified electrician. For safety reasons, the bypass power module contains an internal fuse. DO NOT connect the module to AC mains power until the output wires have been connected to the CP500. Otherwise, shorted secondary wires will blow the fuse. Install the ferrite clamp on the bypass power supply cable where it connects to the back of the CP500. Open the clip and wrap the bypass power supply wire around one side of the ferrite three times so that the loops lie inside the ferrite channel. Close the clip until it snaps firmly closed. Make sure that the bypass power supply cable is not pinched between the halves of the ferrite clamp.

29 Power On Connect the bypass power module to the CP500 and plug it into AC mains. The front panel BYPASS LED should light. Open the front panel and confirm that one of the Projector Select LEDs is on. Projector 1 or Projector 2 is selected by Jumper J2 on the Cat. No. 661 See manual section 3.4. Connect the main power cable. When power is first applied, the first screen that appears displays the revision level of the software. In a few seconds, the Current Format screen appears. This is the normal screen that the projectionist or any other operator would see and the only screen they will need to see for ordinary purposes. Run quick checks to confirm that Rotating the front panel knob changes the numbers displayed next to it. Pushing the MUTE button causes the MUTE LED to flash. All equipment including the CP500 is grounded to the rack. To ensure good ground contact, install a starwasher to one mounting screw per piece of equipment. Installation of star washers is strongly recommended because electrical contact may not be achieved since modern powder coat paints can be very tough. 2. Ground loops caused by audio signal wiring, especially to power amplifiers. Be sure to check the booth monitor installation. 3. Projector power wiring. All mains wiring should be properly grounded. 4. Room lighting dimmer controls SCRTYPE. 5. Power amplifiers. Disconnect from the CP500 and ground the inputs to determine if the power amplifiers are causing hum problems. 6. Solar cell wiring. Analog film sound format selected. Check the shield connections. Cell wiring should be placed away from mains and other wiring. Cell wires must not be connected to the frame of the projector. 7. Exciter lamp power supply. Check for ripple on the DC power supply outputs. Some old exciter lamp power supplies and emergency supplies provide AC to the lamp. The resulting hum makes them totally unsuitable for a Dolby film sound system.

Ambient lighting, especially florescent tubes, can leak into the solar cell area and cause hum. 31 SECTION 4 FRONT PANEL AND ALIGNMENT OVERVIEW This section describes the CP500 LCD display and operation of the front panel controls, along with of an overview of the general principles involved in the alignment of Dolby cinema equipment. It is useful to develop an understanding of why the CP500 is aligned as described in this manual. If the installer is already familiar with the

CP500 and these principles, or is in a hurry to complete the installation, this section may be read later. That is, they do not have a single fixed function but rather their function is software controlled and changes based on the current screen displayed. Their function is labeled on the panel. The large key on the left, FORMATS, is used to return to the Format Selection Current Formats screen from any other menu screen. This screen is displayed during normal daytoday operation of the CP500. MENU The MENU key is used as the first step in selecting all software functions and menus except format selection. It selects or returns the unit to the top menu. 32 SOFT KEYS 18 Used to select the function shown next to the switch in the front panel display. BYPASS INDICATOR Indicates continuous red when unit is in bypass mode. MUTE ON INDICATOR Flashes when mute is activated. Ranges from 0 to 10. Normally set to 7.0 This display shows when in data entry mode. MUTE KEY Mutes output to all channels when activated. 42 EXIT KEY Used to select the previous menu. FRONT PANEL DISPLAY Displays format and menu screens. FORMATS KEY Used to switch to format selection screen. OK KEY Used during popup menu operations. Selects option currently in popup window selection box. Also stores currently displayed data. CANCEL KEY Used during popup menu operations. Cancels popup menu operation and restores the previous menu or data. MENU KEY Used to return to the top of the menu tree.

View more The versatility of the Amplifier makes it the perfect choice for almost every type of custom multiroom These manuals are designed to facilitate the exchange of information related to cinema Connecting up using the high level input. Connecting up using the low level input. Rogue Audio, Inc. 3 Marian Lane Brodheadsville, PA 18322.Active Speaker System with remote input LX523.Amplifier Installation and Setup Guide. AVoIP Connecting up using the high level input. Connecting up using the low level input. Previous experience of networking will be beneficial Used properly and carefully, it should give many years of outstanding musical reproduction. While this may seem like Model 407780. Introduction Operation Manual While this may Tektronix products are covered by U.S. and foreign patents, issued and pending. Information USER MANUAL Models VP200N, 12 High Resolution XGA DA VP300N, 13 High Resolution XGA DA VP400N, 14 High Resolution XGA DA Contents Contents 1 Introduction 1 2 Getting Started Unless stated otherwise, distribution amplifier or the unit While this may seem like a simple UserOs Manual Notice Every effort was made to ensure that the information in this guide was complete and accurate at the time of USER MANUAL Models VP200N, 12 High Resolution XGA DA VP300N, 13 High Resolution XGA DA VP400N, 14 High Resolution XGA DA Contents Contents 1 Introduction 1 2 Getting Started Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this In the event that the innkeeper PBX needs repair, you must call us to get an authorization, and While this may seem like In the event that the innkeeper PBX needs repair, you must call us to get an authorization, and Issue 4 Part Number 9110270 Corporate Headquarters Dolby Laboratories, Inc. 100 Potrero Avenue San Francisco, CA 94103 4813 USA Telephone 415 558 0200 Fax Safety instructions You have bought a great, innovative product from DAP Audio.

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