

# Film-Tech

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KINTEK THEATRE SOUND SYSTEM

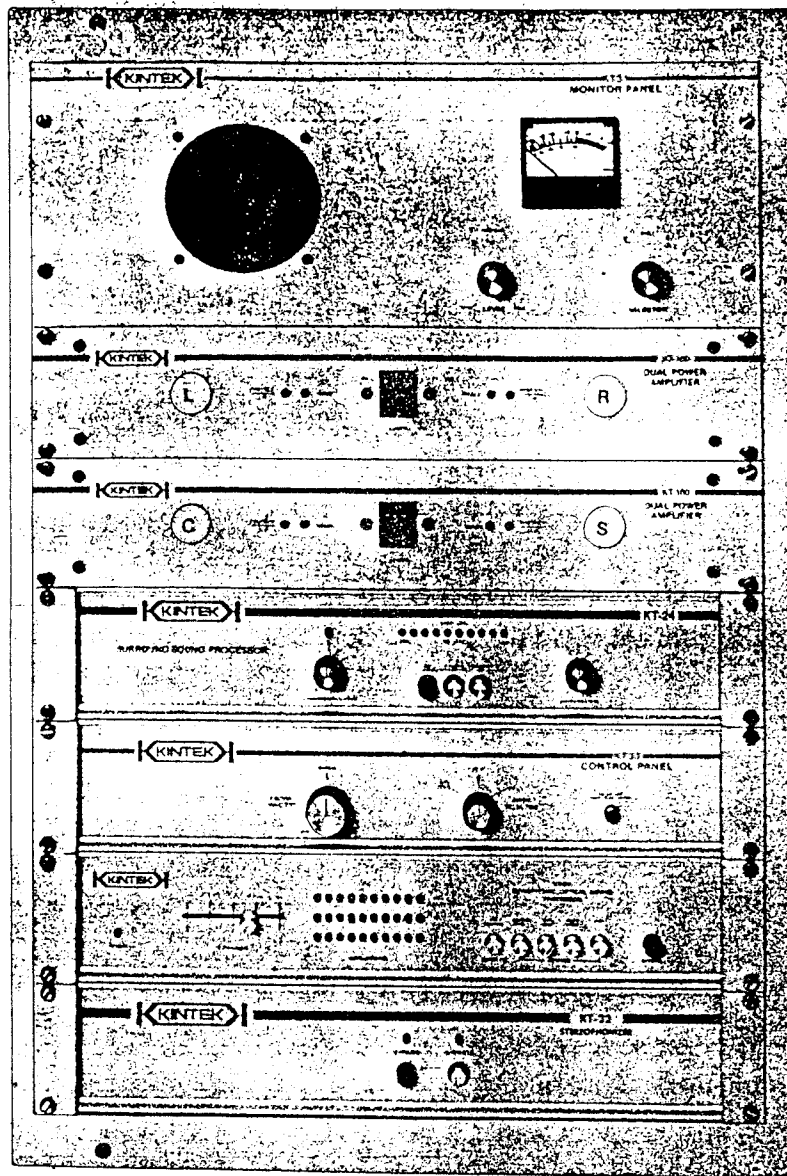
QUICK REFERENCE GUIDE

Model KT-30L Serial # 1081

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# QUICK REFERENCE GUIDE



**KT-21** Mono Optical sound Processor  
**EXPANSION CONTROL.** Adjusts amount of expansion from 1:1.1 (10%) to 1:1.3 (30%). The best average setting is "12." Use "11" for films with very quiet dialogue and loud music passages.  
**3BX ACADEMY ENHANCE.** This mode is the most commonly used for Kintek processing.  
**BYPASS.**

**KT-22** STEREO PHONIZER  
**OPERATE.** Activates the stereo-synthesizer circuitry.  
**BYPASS.**

**KT-24** SURROUND GENERATOR  
**SURROUNDS WITH LF.** For Kintek processing of a sound track.  
**LF ONLY.** For low-frequency enhancement of SVA (Dolby) films played through an SVA decoder.  
**LOW-FREQUENCY LEVEL.** Adjusts subwoofer level.  
**SURROUND LEVEL.** Provides a fine-tune adjustment of surround speakers.  
**BYPASS.**

**KT-31** Monitor Panel  
**SELECTOR.** Chooses which amplifier channel is monitored.

**KT-33** VOLUME CONTROL  
**MASTER FADER.** Sets level for theatre.  
**SELECTOR.** Provides master switching of the entire system for film, non-sync, or auxiliary inputs.  
**EMERGENCY BYPASS.** Bypass of the fader amplifier.

**KT-100** POWER AMPLIFIERS  
**LEDs.** Green indicates normal operation. Red shows standby, protect, or clipping conditions.  
**GAIN CONTROLS.** Top: left and right channels. Bottom: center and surround channels.

- \* The KT-28 and KT-41 are mounted on the rear door of the KT-30S.
- \* The KT-43 is mounted at the top of the KT-30L or on the rear door of the KT-30S. The bypass switch is located on the rear panel.

# OPERATION

1. Check the KT-41 Preamplifier: the OK LED should be lit when the exciter lamp is on and no film is in the projector. The "CCW" LED illuminates when the film is loaded. (On early KT-41s, the "CW" LED lights)
2. KT-33 Control Panel: select the appropriate input (non-sync, film, or aux) and adjust the master fader for normal level.
3. KT-21 Optical-Sound Processor: place the expansion slider on "L2." Press "3BX Academy Enhance."
4. KT-22 Stereophonizer: press "operate."
5. KT-24 Surround-Sound Processor: press "surrounds with LF." If an SVA decoder is used without the optional KT-26 unit, press "LF only" for bass enhancement of Dolby films.
6. KT-100 Power Amplifiers: green LEDs should be on.
7. KT-31 Monitor Panel: Select desired channel for booth monitor.

System is Now Ready for Presentation.

## TROUBLESHOOTING GUIDE

PROBLEM WITH SOUND IN AUDITORIUM	REMEDY
Distortion, clipping, or level differences between projectors.	Check KT-41. OK LED should light when exciter lamp is on and no film is in the projector.
Music too loud and dialogue too soft.	Reduce expansion ratio on the KT-21. If necessary, reduce surround level on the KT-24.
Dialogue sounds hollow and lacks clarity (early or unmodified Kintek systems only — the KT-22 serial number does not have a letter after it).	Raise the level of the center-channel power amplifier slightly. A 2- or 4-dB increase is adequate.
Overall quality of sound is distorted and noisy. High-frequency, midrange, or low-frequency sound is missing.	Push the "bypass" button on the KT-21.
Left and right channels distorted or noisy.	Push the "bypass" button on the KT-22.
Surround channel distorted or noisy.	Push the "bypass" button on the KT-24.
Surrounds too loud or dialogue in surrounds.	Reduce "surround level" on the KT-24.
Excessive bass or thumping heard from the KT-90 Subwoofer.	Reduce "low-frequency level" on the KT-24.
Dialogue heard in the KT-90 Subwoofer.	Check the KT-90. Make sure the high-frequency filter is on "100" and low-frequency filter is on "out."
No sound, but the exciter lamp and preamplifier are lit and all other units seem to be functioning.	Push "fader amp emergency bypass" on the KT-33.
Noisy sound track (old print).	Raise the expansion level on the KT-21 by small amount.

Distorted or noisy sound of uncertain source.

Follow these steps in order to locate the malfunction:  
1. Check the KT-41; the "OK" LED should illuminate when no film is in the projector.

2. Push the "bypass" buttons in the following order and listen for the distortion to stop.

- a. KT-24                      c. KT-21
- b. KT-22                      d. KT-33

Distortion does stop after one of the bypass buttons is pushed; leave that bypass engaged and return all other units to previous settings.

Distortion does not stop after all bypass buttons are engaged; proceed to Step 3.

3. In systems with a KT-28 located on the rear door of the rack: Change the KT-33 selector switch from "aux" to "film." If the distortion does not stop, use the "bypass" switch on the KT-28. In systems without a KT-28 or when the bypasses do not eliminate the distortion: A problem lies in the KT-41 Preamplifier, solar cell, projector, or sound track. These four can not be checked during a presentation. Afterward, check the KT-41 alignment and other components.

Red LED on KT-100 Amplifier stays lit:

- Left, Center, or Right Channel

- Surround Channel

Exciter Lamps not lit

KT-26 not operating (no signal seen in the KT-21 LEDs).

Turn down the level control to the minimum position. If the left and right inputs to the KT-22 have been wired to the center input, switch the KT-22 to "bypass." (Refer to Section 1.4.3 for wiring information.)

Turn down the level control to the minimum position.

Check malfunctioning speaker or amplifier channel as soon as possible.

Turn to "AC Power" on the KT-43 emergency power switch. Recalibrate the KT-41 Preamplifiers. (Refer to Section 1.5.)

KT-26 used with SVA Decoder (CP-50): Push the "SVA" button on the KT-26 and switch the CP 50 to "non-Dolby film."

KT-26 used with Eprad system: Push the "SVA" button on the KT-26 and switch the Eprad system to "mono."

**Contact Your Kintek Dealer for Technical Assistance.**

