

# Film-Tech

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These manuals are designed to facilitate the exchange of information related to cinema projection and film handling, with no warranties nor obligations from the authors, for qualified field service engineers.

If you are not a qualified technician, please make no adjustments to anything you may read about in these Adobe manual downloads.

[www.film-tech.com](http://www.film-tech.com)

## Chapter 7

### KT-43R REGULATED DC EXCITER LAMP POWER SUPPLY

#### 7.1 INTRODUCTION.

The KT-43R Exciter Lamp Supply is designed for a two projector operation and is designed to be rack mounted.

#### 7.2 REAR PANEL

--DC Voltage Output Adjust: adjusts the voltage for the Exciter Lamps.

--Emergency Power Switch: this is a two position toggles switch(Normal(DC)-down or AC Voltage-up). If the DC Power Supply should fail, a backup AC power supply is available; the voltage is set to 5 VAC.

--Barrier Strip: refer to section 1.5.

--Fuses: Primary, 4 amp 120 Volt or 2 amp 240 Volt Slow Blow; Secondary, 30 amp, 32 Volt.

#### 7.3 SPECIFICATIONS.

Output Voltage: Variable 3 to 9 Volts DC.  
Output Current: 10 Amps.  
Power Requirements: 120 VAC, 50 or 60 Hz, 150 Watts  
max. Consult factory for other line voltages.  
Dimensions: 7" x 19" x 4.25" (HxWxD).  
Weight: 16 1/2 pounds.

#### 7.4 INSTALLATION.

##### 7.4.1 PRECAUTIONS.

When locating any electronic equipment near heat sources, provide adequate clearance for ventilation. Excessive heat shortens the of any electronic component. Avoid humidity and water.

Mount electronic equipment and connecting cables as far away from motors and large power transformers as possible to lessen the possibility of 60 Hz hum.

## 7.5 CONNECTIONS.

--Barrier Strip(found of the back panel):

This unit may be used with or without an Exciter Lamp Changeover. In either case use 14 AWG or heavier wire for lengths up to 10 feet and 12 AWG or heavier for lengths 10 to 30 feet.

For Exciter Lamp Changeover: Use the separate voltage outputs for the two projectors, VOLTAGE OUTPUT(PROJ 1) and VOLTAGE OUTPUT(PROJ 2), and a ground(GND) terminal.

When Changeover is not Used: Run the 2-conductor from both projectors to the top two terminals, VOLTAGE OUTPUT(2 PROJECTORS) and GND.

If a Programmer is Used: The control signal from the programmer should be connected to the bottom terminal, CONTROL SIGNAL INPUT. Use a 22 AWG or heavier wire.

--AC Power: The unit can be connect to the switched AC outlet in an equipment rack or accessory outlet on adjacent sound equipment. The KT-43R draws a maximum of 150 Watts.

The emergency AC Lamp voltage is set at the factory to 5 Volts AC. If 7.5 VAC operation is desired, the unit may be modified in the field. Please call the Customer Service Department, KINTEK Inc. for instructions.

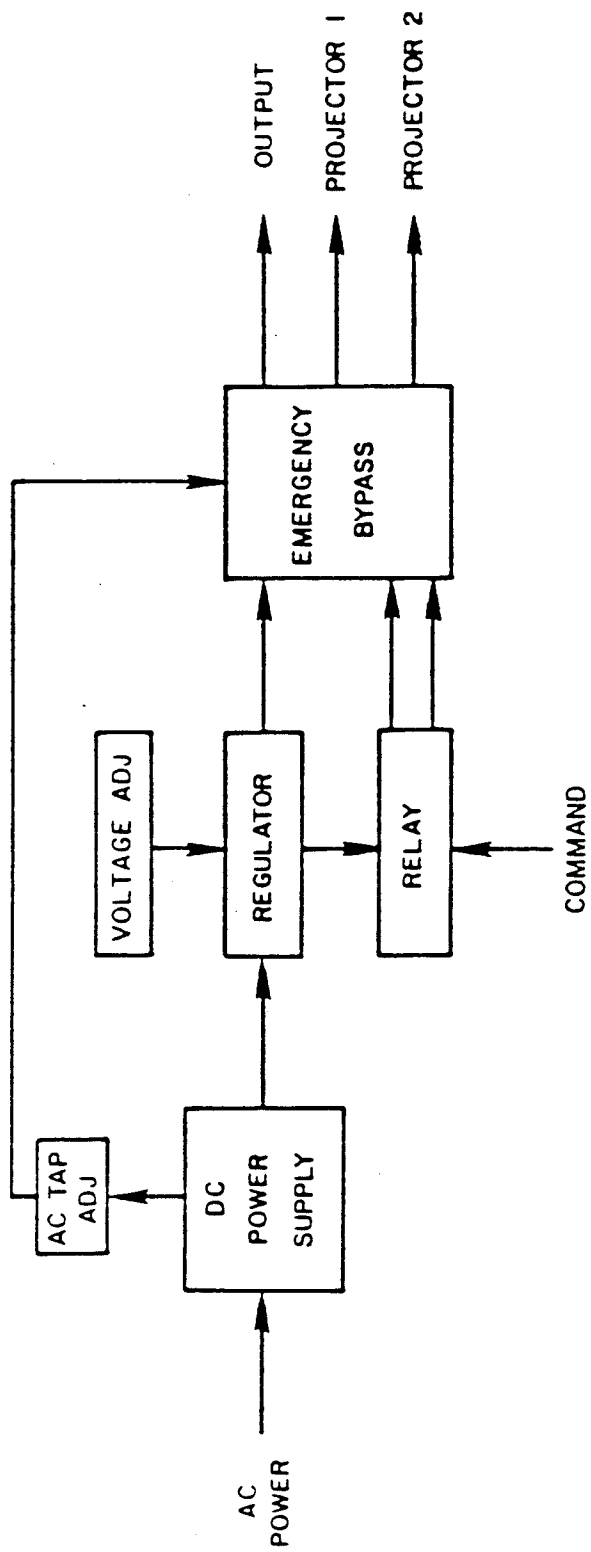
## 7.6 SYSTEM ALIGNMENT.

--Verify that the Emergency Power Switch, on the back panel of the unit, is in the down position, NORMAL(DC).

--Adjust the DC VOLTAGE OUTPUT ADJUST for the proper level to run the projector. Run lamps about 15% below the nominal rating to increase their life expectancy.

--Test the Exciter Lamp Changeover, if used.

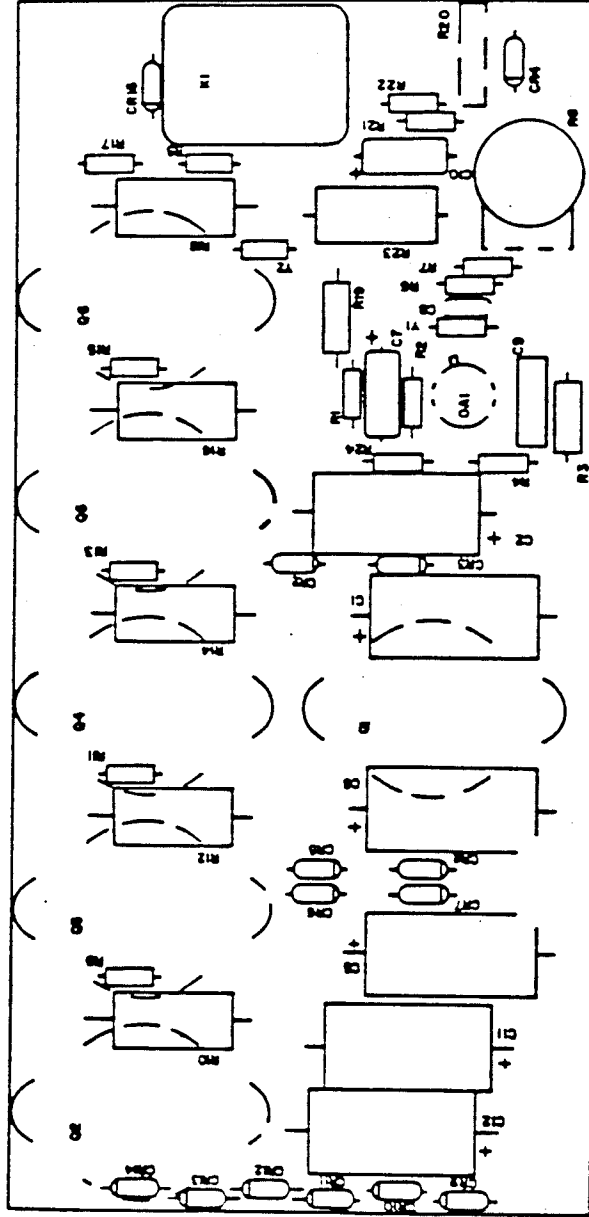
--Test the Programmer Control, if used.



Flow Chart of the KT-43R

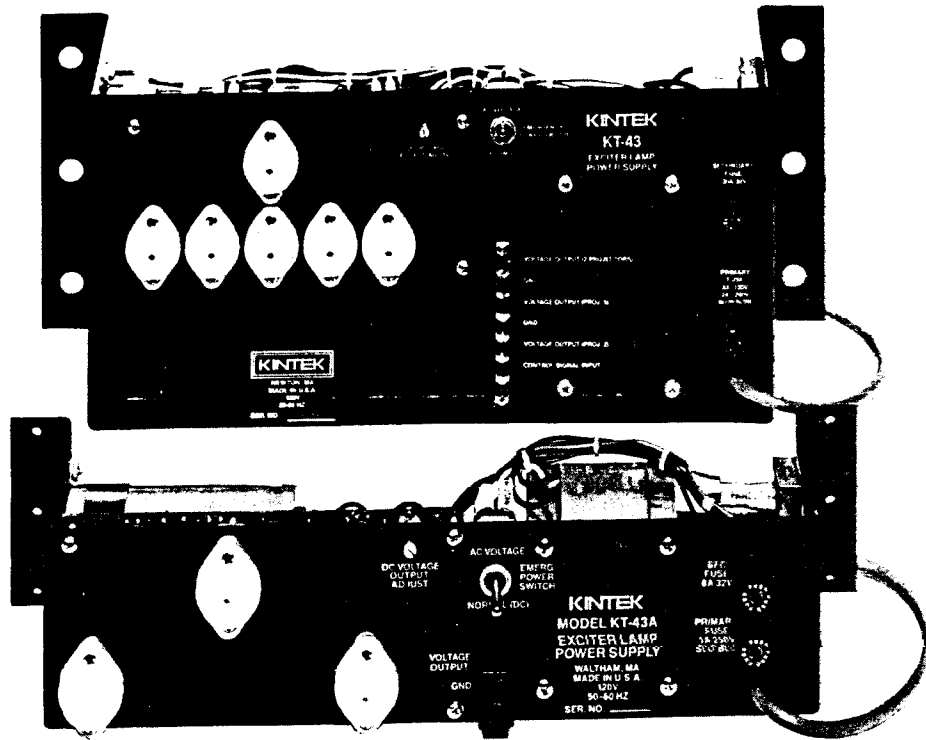


RELAY  
 AROMAT  
 HLI-DC 12V  
 OK  
 ECG RLY 2322  
 SPDT 15 AMP  
 160  $\Omega$  SOIL RESISTANCE



Board Layout of the KT-43R

# EXCITER LAMP POWER SUPPLIES



KINTEK offers DC regulated exciter supplies for single or multiple projectors. They have the reputation of being the most over-regulated, over-built exciter supplies available to the motion picture industry. These heavy-duty work-horses provide variable DC output with emergency AC power back up. KINTEK Exciter Supplies are the perfect complement to any theatre sound system.

## KT-43A

\$ 425.00

**Single Projector**  
**Output Voltage** - 3 to 9 Volts DC  
**Output Current** - 5 Amps  
**Power Requirements** - 120 VAC\*,  
 50/60 Hz, 150 Watts max.  
**Dimensions** - 3.5" x 19" x 3.5" (HxWxD)  
 (also available on 15" panel)  
**Weight** - 8 pounds  
**Terminals** - Barrier strip on rear panel

\*Consult factory for other line voltages.

RACK MOUNT

## KT-43

\$ 714.00

**Dual Projector**  
**Output Voltage** - 3 to 9 Volts DC  
**Output Current** - 10 Amps  
**Power Requirements** - 120 VAC\*,  
 50/60 Hz, 150 Watts max.  
**Dimensions** - 7" x 19" x 4.25" (HxWxD)  
 (also available on 17" panel)  
**Weight** - 16.5 pounds  
**Terminals** - Barrier strip on rear panel

\*Consult factory for other line voltages.

RACK MOUNT

KINTEK Exciter Supplies are warranted for two years from the date of purchase against all defects in materials and workmanship.

# KINTEK

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