



Citation series audio consoles

LPR®

# LPB<sup>®</sup> citation series audio consoles

## SPECIFICATIONS

### Mixers:

C-8S	.8
C-10S	10

### Inputs (Standard Factory Equipped):

	C-8S	C-10S
Mic	6 Stereo	6 Stereo
High Level	18 Stereo	24 Stereo
Total	24 Stereo	30 Stereo
External Monitor		1 Stereo
External Headphone		1 Stereo
External VU Meter		1 Mono, 1 Stereo

### Input Impedance:

Mic	150 ohms source, Transformer Balanced
Hi-Level	600 ohms terminating, Transformer Balanced
External Monitor (AIR)	4700 ohms, unbalanced
External Headphone (AIR)	4700 ohms, unbalanced
External VU Meter	100k ohms, balanced, 47k unbalanced
Mic Process	10k ohms, unbalanced

### Input Levels:

Mic	Selectable: -45 dBm, -55 dBm, -65 dBm
Hi-Level	-10 dBm
External Monitor (AIR)	250 mV
External Headphone (AIR)	250 mV
External VU Meter	1V rms = 0 VU
Mic Process	1.2V rms

### Outputs:

Program	Stereo + 8 dBm (OVU) clipping level above + 22 dBm
Audition	Stereo + 8 dBm (OVU) clipping level above + 22 dBm
Mono Mixdown (OPT)	Mono + 8 dBm (OVU) clipping level above + 22 dBm
Monitor	5, Stereo @ 1 V, 600 ohm load
Cue	1 @ 1/2 watt, with internal speaker
Headphone	1 @ 1/2 watt, Stereo, switchable between PGM, AUD, EXT, or Cue
Tape Out	3: Program, Audition, Mono Mixdown, -6 dBm into 600 ohms, +1 dBm, 10k ohm load
Cue Bus	1, mono @ -5 dBm
Mic Process	300 mV, 10k ohm load
Mic Send	500 mV, 10k ohm load

### Output Impedance:

Program	600 ohm load, Transformer Balanced
Audition	600 ohm load, Transformer Balanced

Mono Mixdown (OPT)	600 ohm load, Transformer Balanced
Monitor	600 ohms min. load
Cue Bus	4.7k ohms load
Headphone	8 ohms & up load
Tape Out	1k ohms source
Remote Start	Dry relay contacts rated 24 VDC and 200 ma

### Frequency Response:

Program	Within 1 dB 20 Hz—20 kHz
Audition	Within 1 dB 20 Hz—20 kHz
Mono Mixdown (OPT)	Within 1 dB 20 Hz—20 kHz
Monitor	Within 1 dB 20 Hz—20 kHz

### Total Harmonic Distortion:

Program, Audition, Mono Mixdown	Typ. 0.1%, 0.25% max., 20 Hz—20 kHz @ + 18 dBm output, -55 dBm input
Monitor	0.3% max., 20 Hz—20 kHz @ 1 volt

### Intermodulation Distortion (SMPTE):

Program, Audition, Mono Mixdown	Less than 0.1% @ +22 dBm output
Monitor	Less than 0.11% @ 1 volt output

### Signal to Noise:

Program, Audition, Mono Mixdown	Better than 74 dB below +18 dBm output with -50 dBm input 20 Hz—20 kHz
Monitor	Better than 65 dB below 1 volt output

### Crosstalk:

Program, Audition, Monitor	Below Noise Level
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### Power Requirements:

Voltage	117/234 VAC
Frequency	50/60 Hz
Power	100 watts max.

### Cabinet:

Material	0.125" Aluminum
Finish	Textured scratch resistant Armorhide
Panel	0.125" Aluminum
Finish	Matte Armorhide, epoxy paint silk screened

### Dimensions:

C-8S	39 1/2" W, 25 1/2" D, 11 1/2" H
C-10S	47" W, 25 1/2" D, 11 1/2" H

### Shipping Weights:

C-8S	95 lbs.
C-10S	110 lbs.

## ORDERING INFORMATION, OPTIONS AND ACCESSORIES

### CONSOLES

Model C-8S	—8 mixer, dual stereo output, two stereo mic input preamps, 6 stereo line input preamps, two meters
Model C-10S	—10 mixer, dual stereo output, two stereo mic input preamps, 8 stereo line input preamps, two meters
Model C-8SL	—same as C-8S, with linear faders
Model C-10SL	—same as C-10S with linear faders

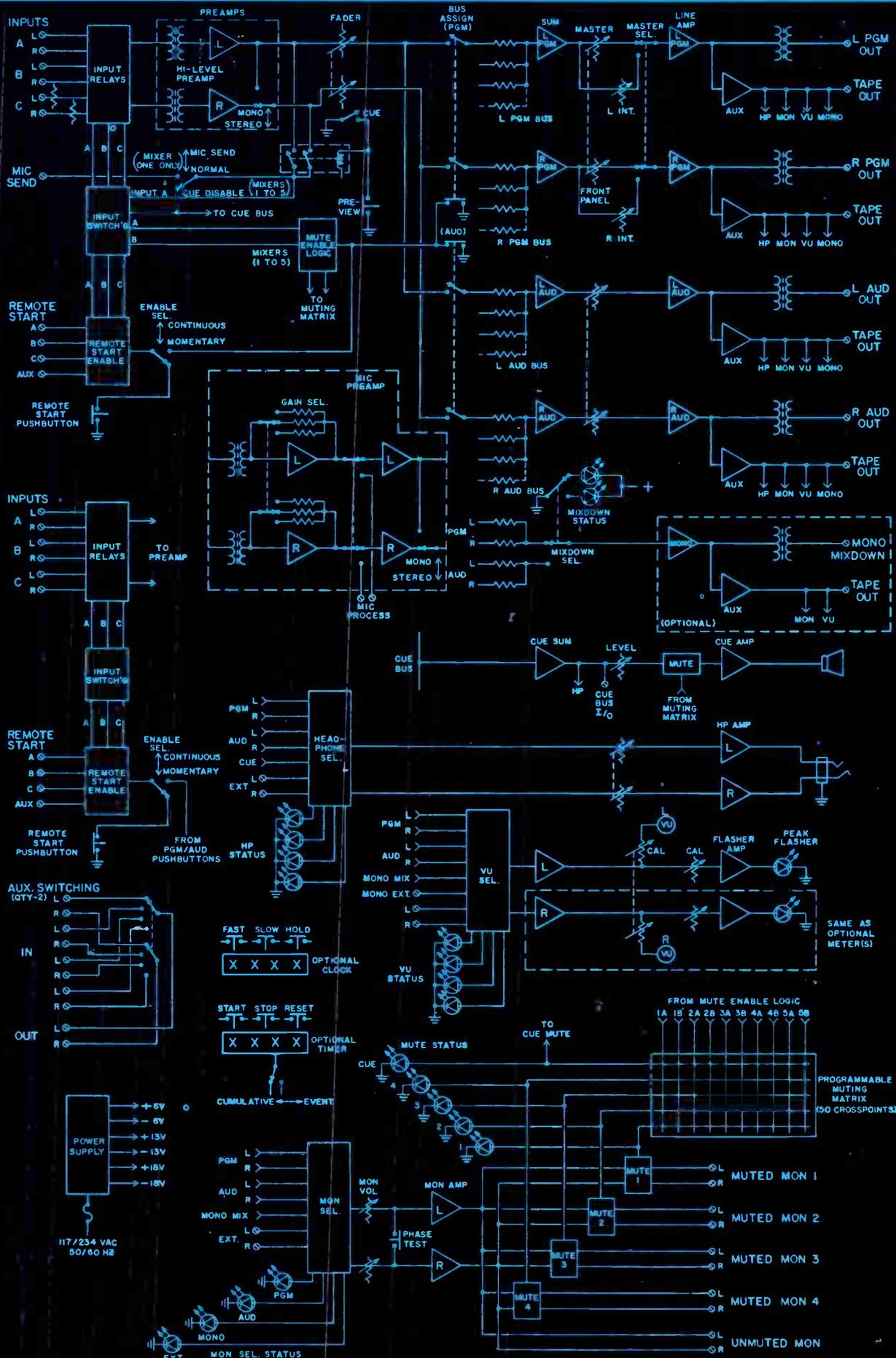
### OPTIONS

Part No. CCL	12/24 hour Digital Clock
Part No. CTI	4 digit (99:59) Digital Timer, with cumulative/event selector
Part No. CVU	VU Meter Assembly with LED Peak indicator
Part No. CMM	Mono Mixdown Line Amp

Part No. CHO	Reference Oscillator/Line input preamp, stereo
Part No. CHZ	High Impedance Line input preamp, stereo

### SPARES

Part No. CHL	Line input preamp plug-in, stereo
Part No. CMP	Microphone input preamp plug-in, stereo
Part No. CLA	Line output amplifier plug-in, single channel
Part No. CQH	Cue/Headphone amplifier plug-in
Part No. CMA	Monitor driver amplifier plug-in
Part No. CPR	Power supply regulator module (includes chassis-mounted semiconductors)
Part No. CAS	11 position aux switches substituted for standard 4 position aux switches (2)



INPUTS

PREAMPS

FADER

BUS ASSIGN (Pgm)

SUM

MASTER

MASTER SEL.

LINE AMP

L PGM OUT

TAPE OUT

R PGM OUT

TAPE OUT

L AUD OUT

TAPE OUT

R AUD OUT

TAPE OUT

MONO MIXDOWN

TAPE OUT

INPUTS

MIC PREAMP

GAIN SEL.

MONO STEREO

PGM

MIXDOWN STATUS

MIXDOWN SEL.

MONO

TAPE OUT

REMOTE START

HEADPHONE SEL.

HP STATUS

PGM

AUD

CUE

EXT

HP AMP

L

R

AUX SWITCHING

FAST SLOW HOLD

OPTIONAL CLOCK

VU STATUS

MONO MIX

MONO EXT.

L

R

FLASHER AMP

PEAK FLASHER

SAME AS OPTIONAL METER(S)

POWER SUPPLY

START STOP RESET

OPTIONAL TIMER

MUTE STATUS

TO CUE MUTE

CUE

FROM MUTE ENABLE LOGIC

1A 1B 2A 2B 3A 3B 4A 4B 5A 5B

PROGRAMMABLE MUTING MATRIX (50 CROSSPOINTS)

POWER SUPPLY

CUMULATIVE EVENT

MON SEL.

MON VOL

MON AMP

PHASE TEST

MUTE 1

MUTE 2

MUTE 3

MUTE 4

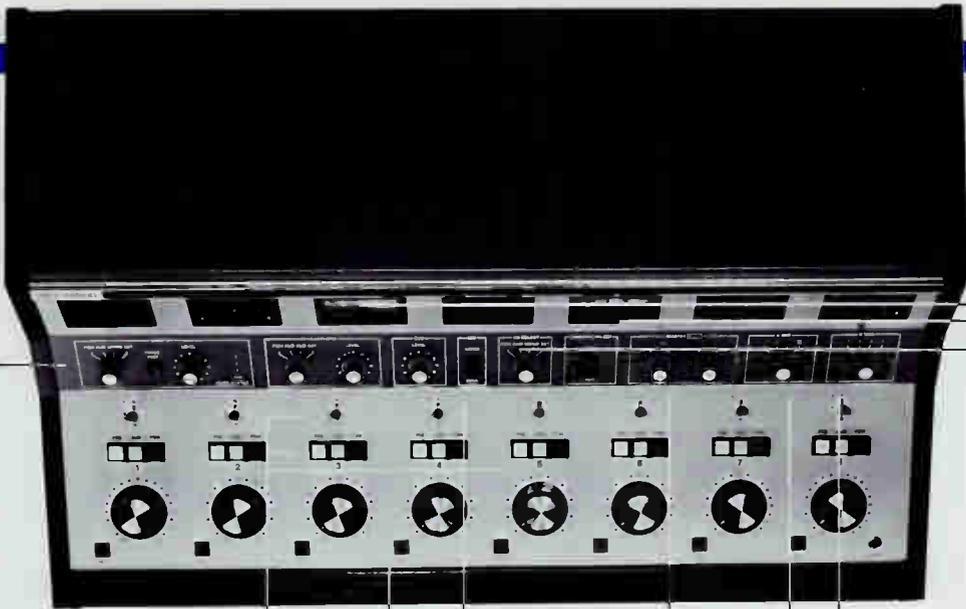
MUTED MON 1

MUTED MON 2

MUTED MON 3

MUTED MON 4

UNMUTED MON



**MONITOR SELECTOR**

The monitor selector group includes an aural phase test pushbutton, and monitor/cue muting status indicators.

**MASTER LEVEL CONTROLS**

Selector switches to transfer the front panel master program and audition level controls to the internal controls are located internally.

**VU METERS AND SELECTOR**

Two illuminated VU meters with LED peak indicators are standard. Each meter assembly includes a calibration amplifier and variable threshold peak control. The two meters are switchable, and additional assigned meters are optional. A maximum of 4 additional meters and/or digital clocks and timers may be specified.

**PRE-FADER CUE**

In addition to the conventional CW fader cue position, a momentary pre-fader cue pushbutton allows monitoring while maintaining a preset fader position.

**REMOTE START**

Each mixer position is equipped with a momentary switch which provides a contact closure for each input. The indicator lamp terminals are accessible for use as cart machine status indicators such as "run", "ready", etc. An additional set of contacts allows the optional digital timer to be reset simultaneously with a "start" command. An internal selector switch transfers the momentary start function to the program/audition selector switches for control requiring a sustained contact closure.

**OPERATORS MIC SELECTOR**

A slide switch with LED status indicators offers the direction of input 1A to either the selected output buss (NORM) or to a console output for intercom use (SEND).

**AUXILIARY SELECTORS**

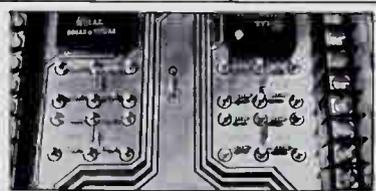
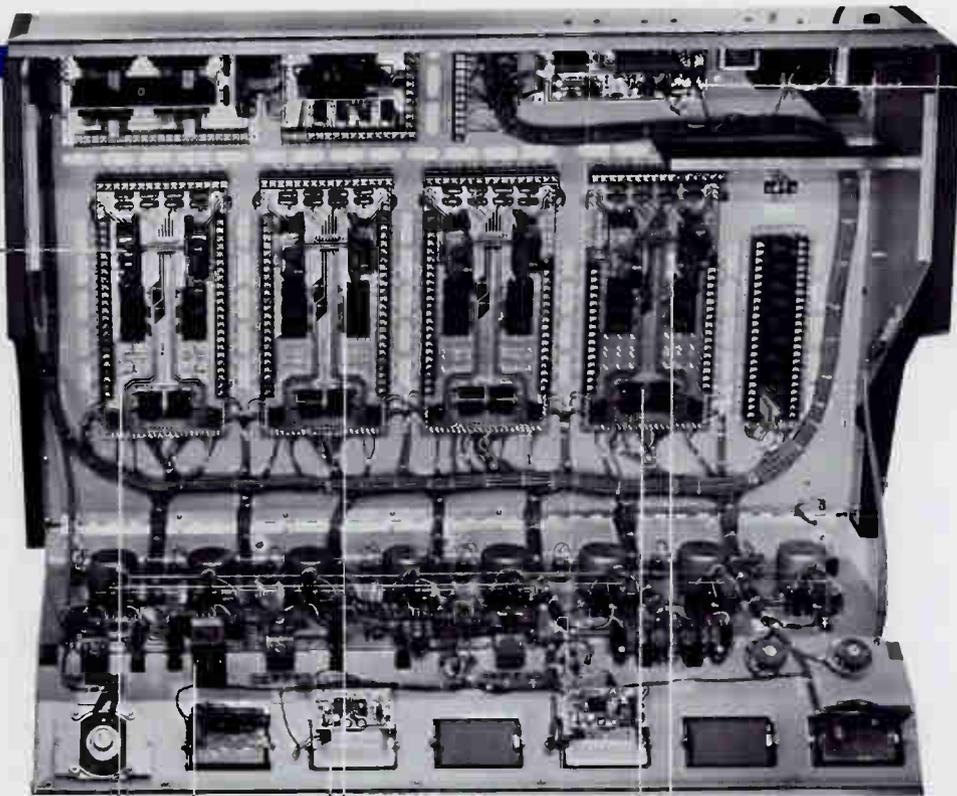
Two 4-position switches are provided which may be used as additional input selectors, output directors, expansion of external monitor inputs, etc. Two 11-position switches can also be provided, by ordering option "CAS."

**PROGRAM/AUCTION SELECTORS**

Independent, illuminated ON/OFF pushbuttons allow simultaneous assignment to both Program and Audition Busses, if required. Both outputs are identical in performance.

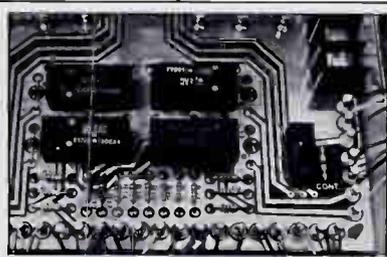
**INPUT SELECTORS**

Three inputs per mixer are provided, utilizing a telephone-type lever for activating silent reed relays for maximum reliability.



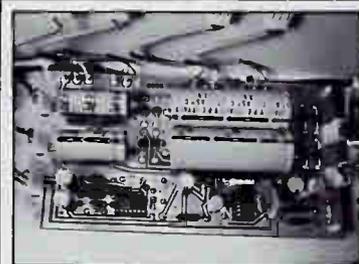
**INTERNAL INPUT PADS**

Internal H pads are provided in the "C" position of all microphone inputs for mic/line capability on the same mixer. Line level inputs also have strapped pad terminals to allow additional line input level adjustment.



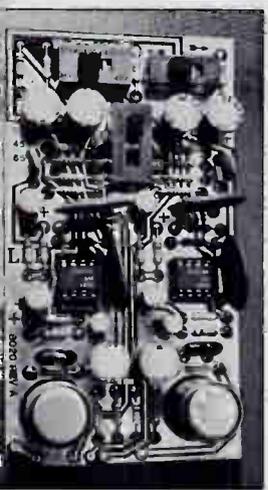
**GROUND PLANE CIRCUIT BOARDS**

All printed circuit boards use wide area ground-plane techniques with appropriate de-coupling capacitors.



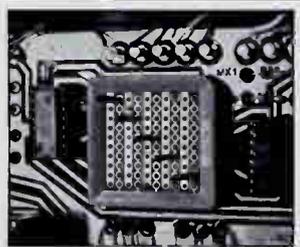
**POWER SUPPLY VOLTAGE REGULATOR**

A snap-out circuit assembly with connectors allows quick removal for service or replacement.



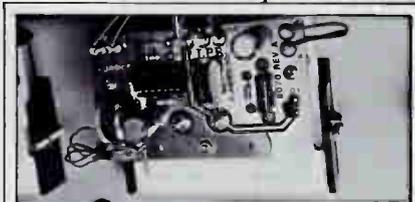
**STEREO MIC PREAMP PLUG-IN**

Programming switches are provided to allow a selection of 3 input levels, mono or stereo input operation, and external processor input selector. An input transformer tap is also provided for phantom powering of condenser microphones.



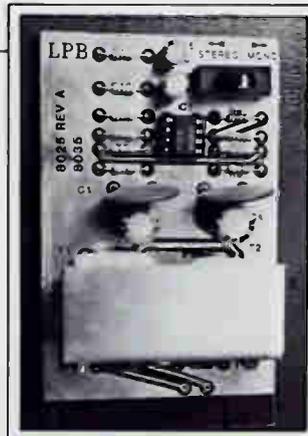
**PROGRAMMING MATRIX**

An internal pin-programmed matrix is used to provide the selection of monitor and cue muting for the first 5 mixer positions.



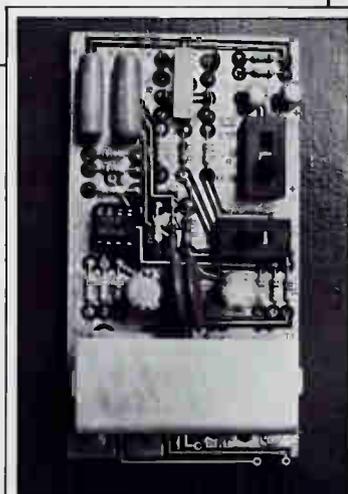
**METER AMPLIFIER**

The amplifier circuit assembly is mounted on the rear of each meter and allows easy adjustment of meter calibrations and peak level indicator threshold controls.



**STEREO LINE PREAMP PLUG-IN**

Transformer balanced, each line preamp is switch selectable for mono or stereo input operation.



**REFERENCE OSCILLATOR**

An optional reference oscillator is available, which can be converted to standard line input preamp configuration by means of a selector switch mounted on the plug-in. The oscillator can provide a switch selectable tone to left, right, or left plus right inputs.

## **MODEL C-8S**

8 MIXER DUAL STEREO  
(STANDARD CONFIGURATION)



## **MODEL C-10S**

10 MIXER DUAL STEREO  
(SHOWN WITH OPTIONAL VU METERS AND DIGITAL TIMER)



## **MODEL C-10SL**

10 MIXER DUAL STEREO WITH LINEAR FADERS  
(SHOWN WITH OPTIONAL VU METERS AND DIGITAL CLOCK)

