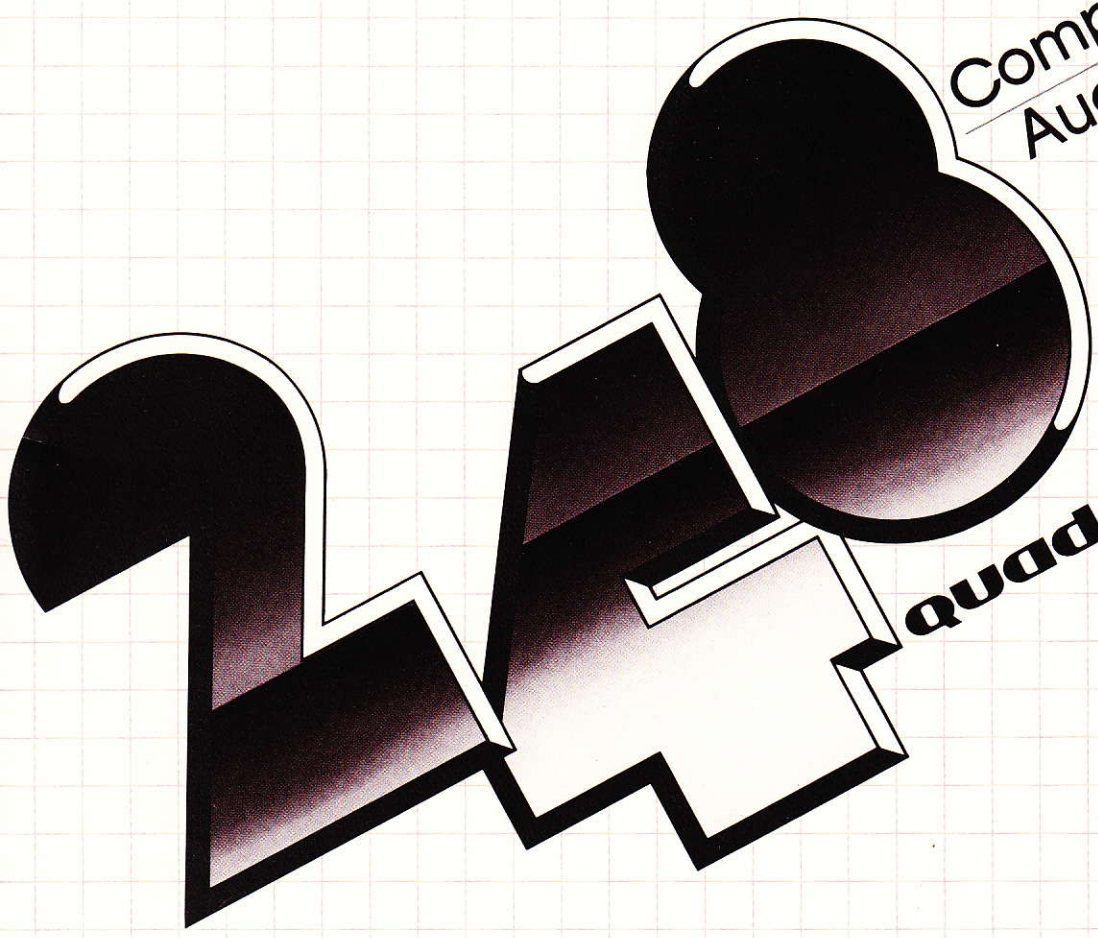
AUDIO mixing



Component Series
Audio Consoles

quad/eight

a. Equalized Microphone/ Line Input Module. Two selectable microphone or mono line inputs, with 3 band detented peaking/reciprocal dipping, with 2 "Q" positions, plus shelving, equalizer; and detented concentric high pass and low pass variable filter. Includes channel on/off, PFL, microphone and line trim, microphone pad and phantom power, microphone-line A/B select, phase reverse, and equalizer and filter in/out.

b. Stereo Line 4 Input Mix Module. Four separate stereo line level inputs with individual level controls and on/off, mixed to stereo output or combined for mono. Includes channel on/off and PFL.

c. Stereo Line 4 Input Select Module. Selects any one of 4 stereo line level inputs to stereo output or combined for mono. Includes channel on/off and PFL.

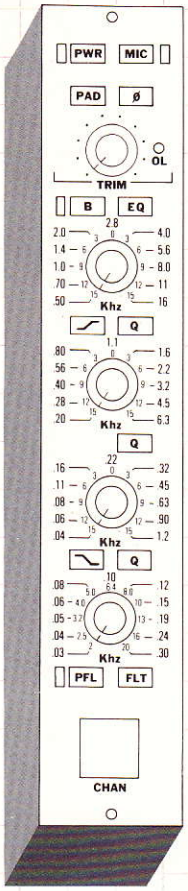
d. Microphone 4 Input Mix Module. Four separate microphone level inputs, each with individual control plus trim, on/off, pad, and phantom power, mixed to a single output. Includes channel on/off and PFL.

e. Stereo Assign Module. Assigns or pans mono input to left-right program busses, or left-right audition busses, Key switch activates program, all, or audition assignment. Includes 4 auxiliary sends with individual level controls, on/off, and pre/post fader feeds.

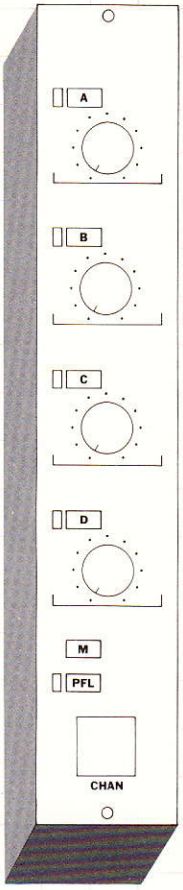
f. Stereo Assign Module. Assigns stereo input to left-right program busses, or left-right audition busses. Key switch activates program, all, or audition assignment. Includes 2 stereo auxiliary sends with individual level controls, on/off, and pre/post fader feeds. Also available for mono input, and also with program channel only.

g. Four Channel Assign Module. Assigns mono input to four output busses, or pans between odd/even selected busses. Includes 4 auxiliary sends with individual level controls, on/off, and pre/post fader feeds.

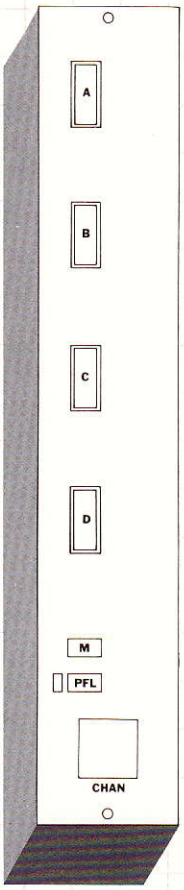
a.



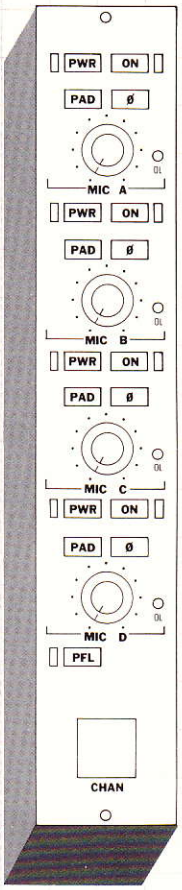
b.



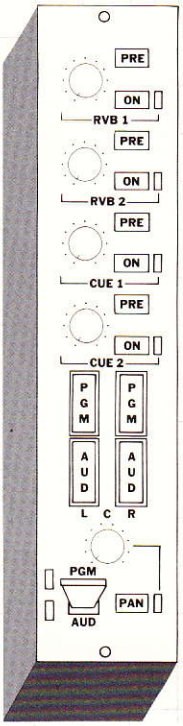
c.



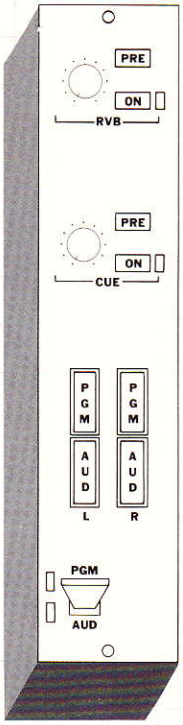
d.



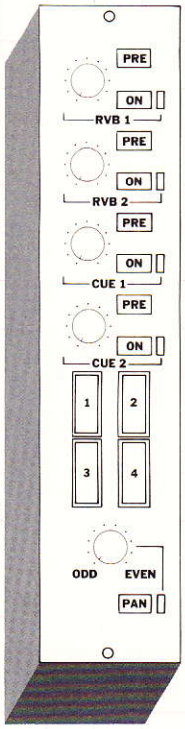
e.



f.



g.



h. Eight Channel Assign Module. Assigns mono input to eight output busses, or pans between odd/even selected busses. Includes 4 auxiliary sends with individual level controls, on/off, and pre/post fader feeds. Also available to assign to 4 sub-mixer busses and 4 output busses.

i. Mono or Stereo Fader Module. Mono or stereo fader fed from input module, and includes mono or stereo booster amplifier to feed assign module. Faders available with overpress PFL, or cueing function.

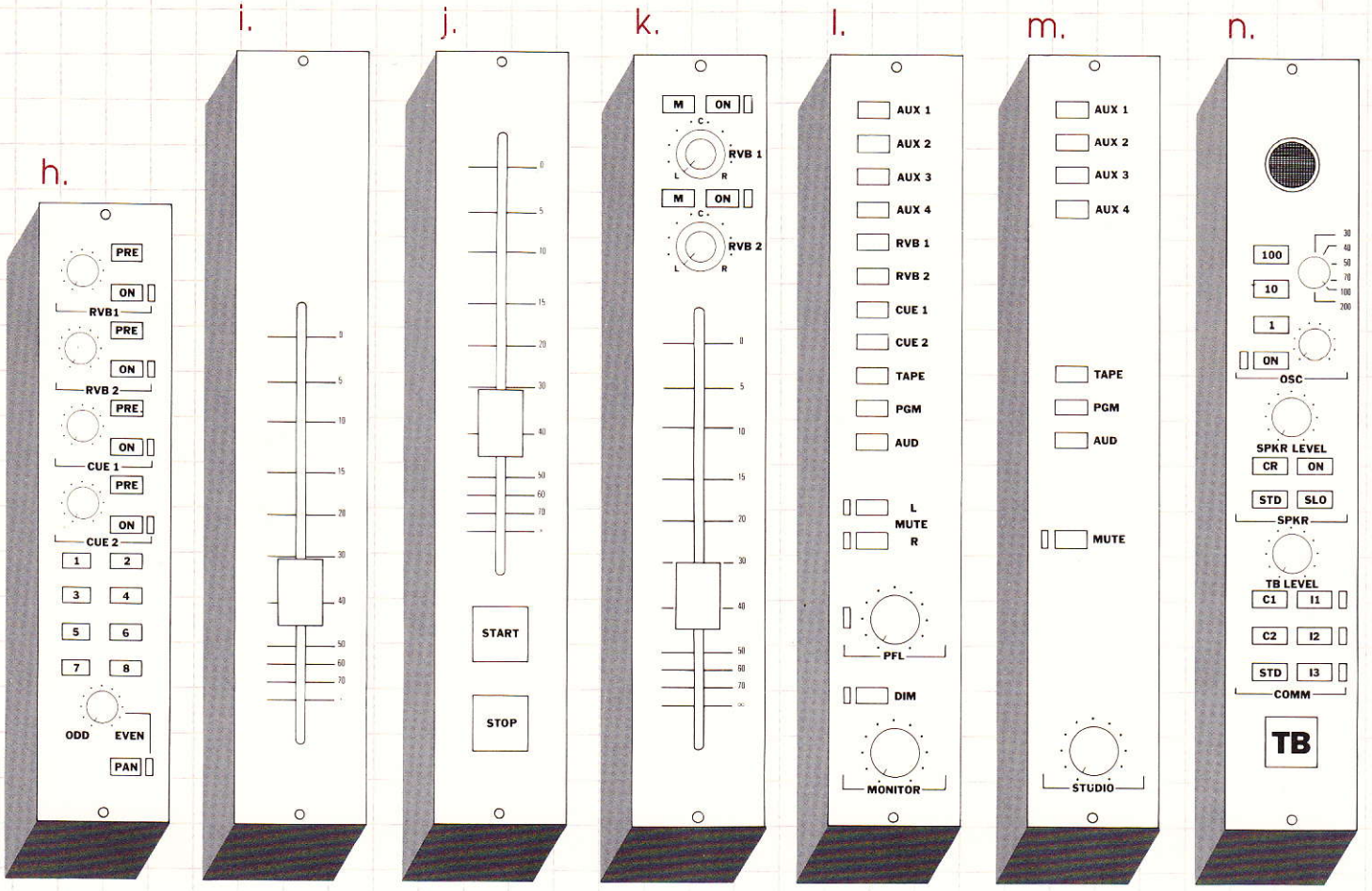
j. Mono or Stereo Fader Module with Switch Option Fader module is available with fader either above or below switch option position. Can be either customer or factory installed.

k. Stereo Output Module. Master stereo fader with output amplifiers to feed output lines. Includes 2 echo returns each with individual level controls, concentric pan pot, on/off, and mono combine.

l. Control Room Monitor Module. Stereo monitor module with 11 selectable inputs, monitor mute, PFL level control, dim switch, and stereo monitor level control.

m. Studio Monitor Module. Stereo Monitor module with 7 selectable inputs, monitor mute, and stereo monitor level control.

n. Communications Module. Module includes full range low distortion oscillator; talkback microphone, level control, and routing switches; and headphone/cue speaker controls.



Preliminary Specifications

248 Component Series / Audio Consoles

Frequency Response:	±1 dB, 20Hz to 20kHz ±.5 dB, 30Hz to 20kHz Measured at any output level up to +24dBm from mic input to any output
Noise:	Microphone Equivalent Input Noise = −129dBm (150 ohm source). Line Input: 88 dB signal-to-noise ratio at unity gain (+4dBm input, +4dBm output).
Headroom:	Minimum headroom, Microphone preamp: +26dB All other amplifiers: +22dB.
Distortion:	Less than .10% THD at any level up to +26dBm output. 30Hz to 20kHz (Typ. less than .05%).
Maximum Output Level:	+26dBm
Gain:	95 dB overall (Lower gain available)
Crosstalk:	Greater than 85 dB, 20Hz to 15kHz Channel to channel.
Power Requirement:	100/115/230 VAC, 50/60 Hz, 150 watts
Weight:	Approx 40 lbs for 8 inputs, 2 outputs
Dimensions:	Height: 13.3"; Depth: 31.25"; Width: 20.5".
Notes:	The minimum console configuration consists of three (3), four-slot housing modules. This yields an eight input by four output console. The basic configuration may be expanded to accommodate as many as twenty four input modules with eight output busses. With these additional maximum number of housing modules, the overall width becomes 57.6 inches. The compact format and modular design of the Quad-Eight 2•4•8 Component Series Consoles will satisfy requirements for broadcast, video production, remote recording, sound reinforcement and any other high-quality sound requirement.

Quad-Eight Electronics/Quad-Eight International
11929 Vose Street, North Hollywood, California 91605
(213) 764-1516 Telex: 662-446

Printed in U.S.A.
4124881

240 Component Series / Audio Consoles

THE BUILDING BLOCK CONCEPT
248 COMPONENT SERIES AUDIO CONSOLES

THERE IS NOTHING AROUND LIKE IT— CUSTOM CAPABILITY IS STANDARD IN THE 248.

The new QUAD-EIGHT Electronics 248 Component Series Consoles offer flexibility not usually found in a package of this quality, size, and price. Starting with the basic building-block frame, the 248 can be configured in many ways. We've listed just a few.

The user starts with two basic requirements—number and kind of inputs, and number and kind of outputs. QUAD-EIGHT has organized the concepts of "Input" and "Output" into manageable, off-the-shelf components which can be combined to form a system for any application, in any configuration, and in a wide variety of sizes. (See the 248 brochure for a list of modules.) And as your needs change, the system allows change.

How is this flexibility achieved? With unique building-block housing sections. Each section is slotted for four module "strips" with three dedicated module receptacles in each "strip." Any series of modules may be replaced with any other in that series. You can add input and output sections as needed. 8 to 32 in (and up); 2 out, 4 out, or 8 out; plus 4 auxiliary outputs for echo, cue, foldback, etc...

And 248 flexibility reaches far beyond console layout—within the same mechanical frame, totally different systems can be configured. To name a few: recording, broadcasting, sound reinforcement—and you may use features of one configuration in another.

No one but QUAD-EIGHT offers everything that goes into a big system in something the size and price of the 248.

With the 248 you will find the solutions to all your audio system problems.

YOU CUSTOM SELECT THE COMBINATION TO FILL YOUR REQUIREMENTS.

BASIC SYSTEM:

The basic building-block console configuration consists of three (3) four-slot housing sections, which can accommodate twelve (12) module strips. The system is also available in 4, 5, 6, 7, or 8 four-slot housing section configurations, providing space for up to 32 module strips. (Larger frame systems are available by special order.) Field expansion consists of adding one or more four-slot housing sections and the desired electronics modules.

Below is the suggested module complement for some sample applications. (The lower-case letter in brackets [] refers to the module description in the 248 brochure.)

8 x 2 + 2 BROADCAST CONSOLE:

(pictured)

8 INPUT MODULES:
- 6 Equalized Microphone/Line Inputs [a]
- 2 Stereo Line Inputs [b or c]

8 FADER MODULES:
- 6 Mono Faders [i or j]
- 2 Stereo Faders [i or j]

8 CHANNEL ASSIGN MODULES:
- 6 Stereo Program/Audition with pan [e]
- 2 Stereo Program/Audition, stereo input [f]

2 STEREO OUTPUT MODULES [k]

1 CONTROL ROOM MONITOR MODULE [l]

1 STUDIO MONITOR MODULE [m]

1 COMMUNICATIONS MODULE [n]

16 x 4 SOUND REINFORCEMENT CONSOLE:

16 INPUT MODULES:
- 16 Equalized Microphone/Line Inputs [a]

16 FADER MODULES [l]

16 CHANNEL ASSIGN MODULES
(four channel) [g]

4 MONO OUTPUT MODULES
(Mono version of [k])

1 COMMUNICATIONS MODULE [n]

24 x 4 + 4 PRODUCTION CONSOLE:

24 INPUT MODULES:
- 20 Equalized Microphone/Line Inputs [a]
- 4 Stereo Line Inputs [b]

24 FADER MODULES:
- 20 Mono [i]
- 4 Stereo [i]

28 CHANNEL ASSIGN MODULES:
- 24 8-channel: 4 Outputs, 4 Submasters [h]
- 4 4-channel: Submaster to Output [g]

8 MONO OUTPUT MODULES:
(Mono version of [k])
- 4 Submasters
- 4 Output Masters

4 EQUALIZER MODULES
(Submaster E.Q.)

1 CONTROL ROOM MONITOR MODULE

1 STUDIO MONITOR MODULE

1 COMMUNICATIONS MODULE [n]

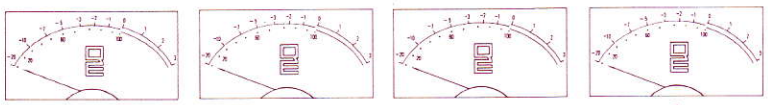
OPTIONAL ADDITIONAL MODULES:

OUTPUT TO MONO AND STEREO COMBINE

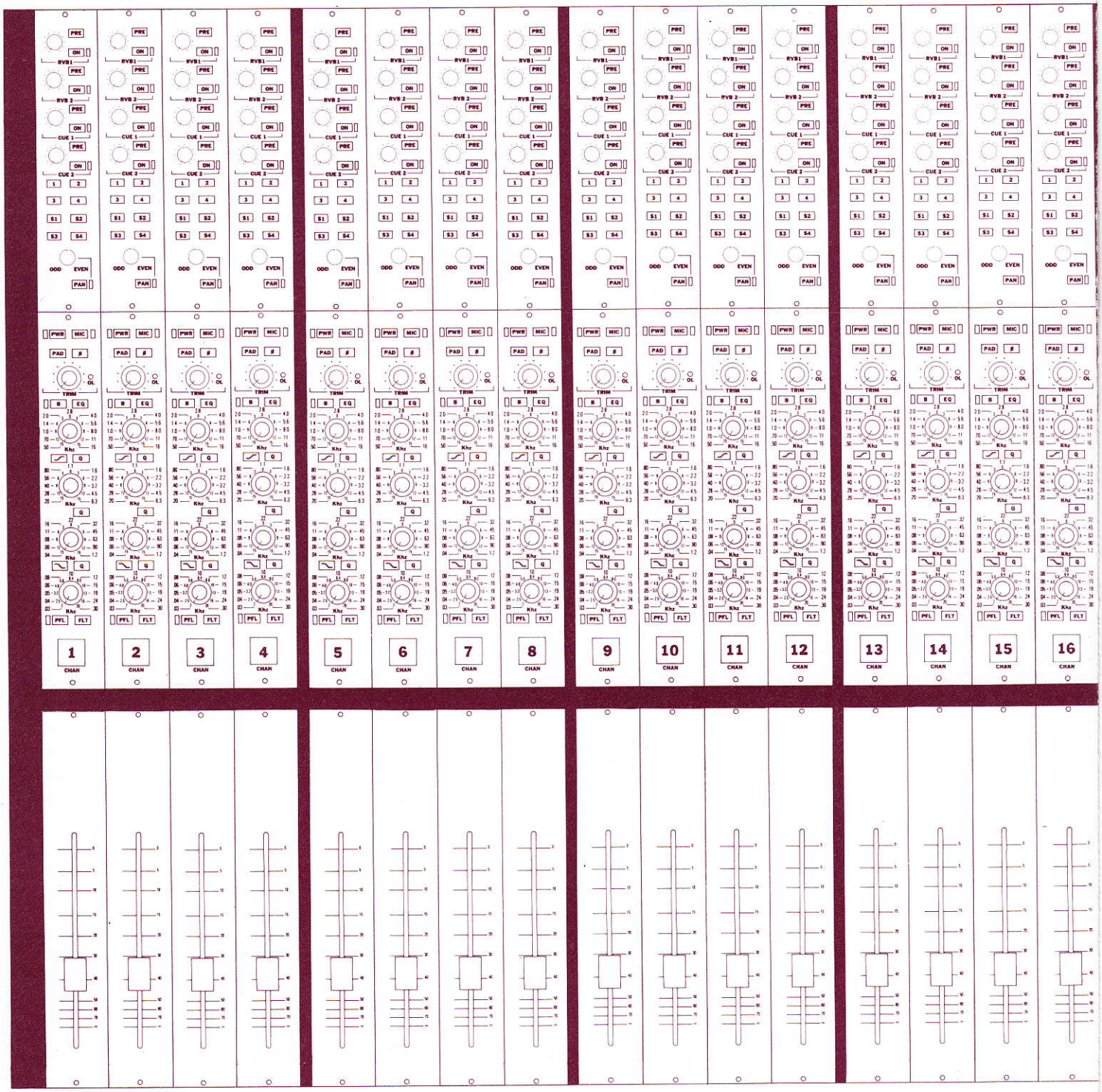
CL-22 COMPRESSOR/LIMITERS

TAPE RECORDER REMOTES

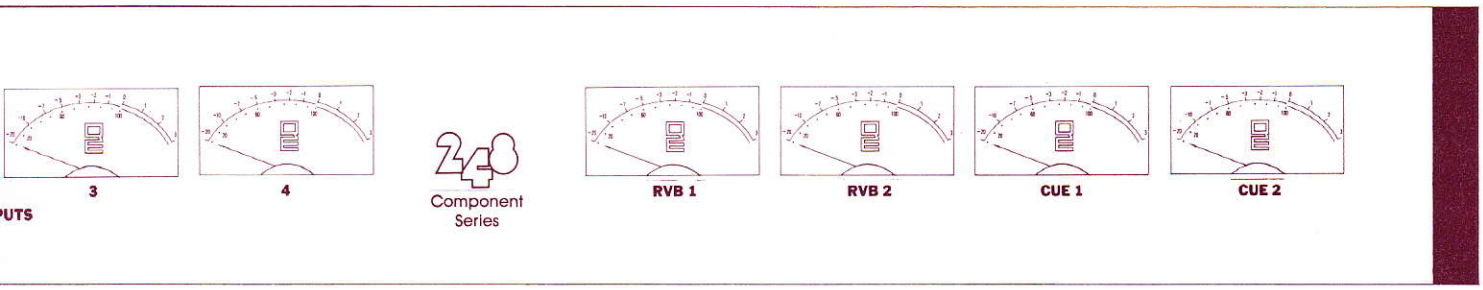
Quad-Eight Electronics/Quad-Eight International
11929 Vose Street, North Hollywood, California 91605
(213) 764-1516 Telex: 662-446

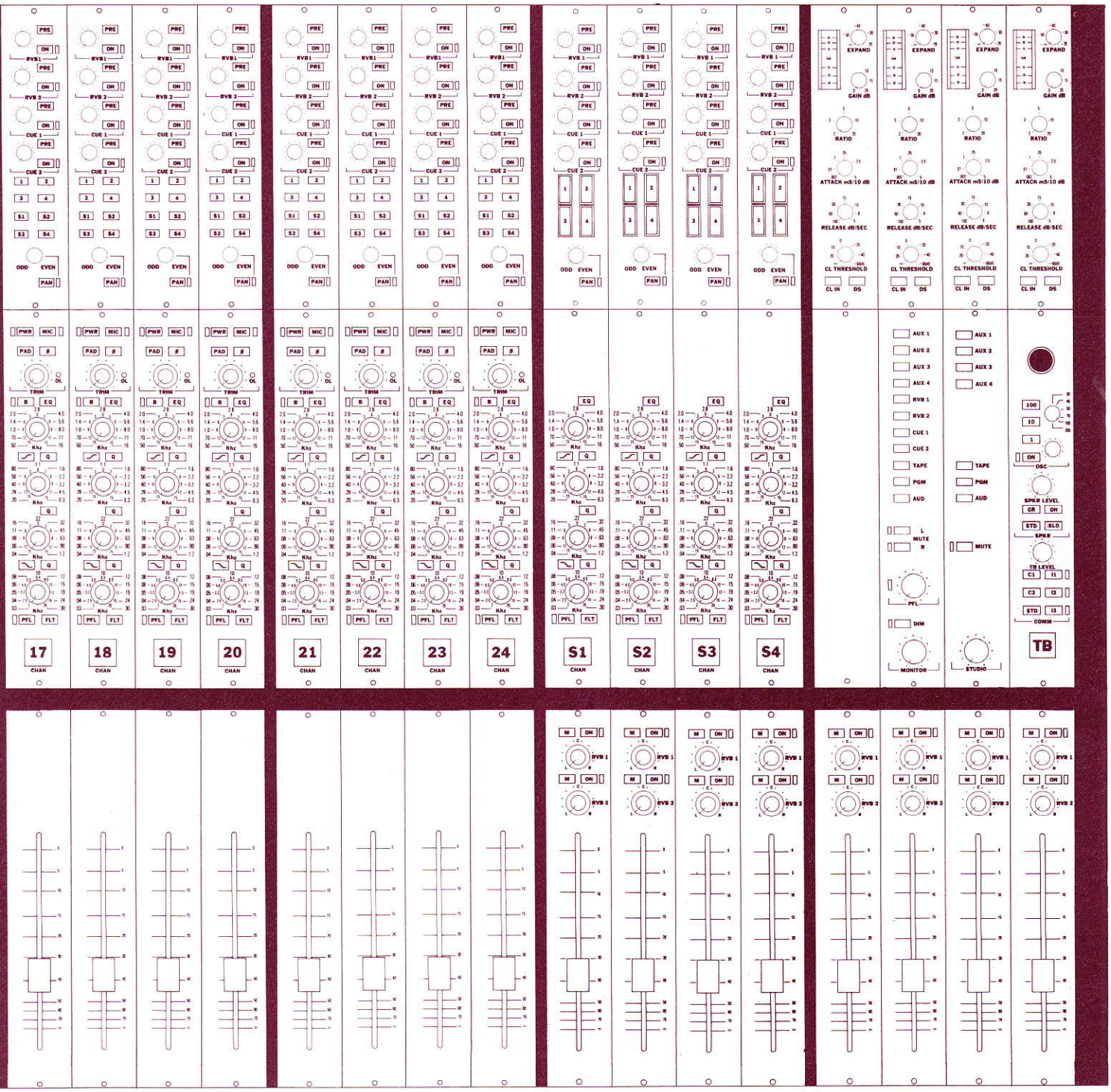

1
2
3
4
SUBMASTERS
1
2
OUT

quad/eight


PRE
ON
RVB1
RVB 2
CUE 1
CUE 2
1
2
3
4
S1
S2
S3
S4
ODD
EVEN
PAN
PWR
MIC
PAD
Ø
TRIM
OL
B
EQ
Khz
Q
PFL
FLT
1 CHAN
2 CHAN
3 CHAN
4 CHAN
5 CHAN
6 CHAN
7 CHAN
8 CHAN
9 CHAN
10 CHAN
11 CHAN
12 CHAN
13 CHAN
14 CHAN
15 CHAN
16 CHAN

Typical Production Console





quad/eight

1
2
OUT

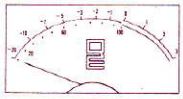
PRE
ON
RVB 1
RVB 2
CUE 1
CUE 2
ODD EVEN
PAN
PWR
MIC
PAD
Ø
TRIM
B
EQ
Khz
Q
PFL
FLT
1 CHAN
2 CHAN
3 CHAN
4 CHAN
5 CHAN
6 CHAN
7 CHAN
8 CHAN
9 CHAN
10 CHAN
11 CHAN
12 CHAN
EXPAND
GAIN dB
RATIO
ATTACK mS/10 dB
RELEASE dB/SEC
CL THRESHOLD
CL IN
DS
100
10
1
ON
OSC
SPKR LEVEL
CR
ON
STD
SLO
SPKR
TB LEVEL
C1
I1
C2
I2
STD
I3
COMM
TB
MASTER
GROUP
MUTE
INPUTS 1-12
SUBGROUPS

Typical P.A. Console

3

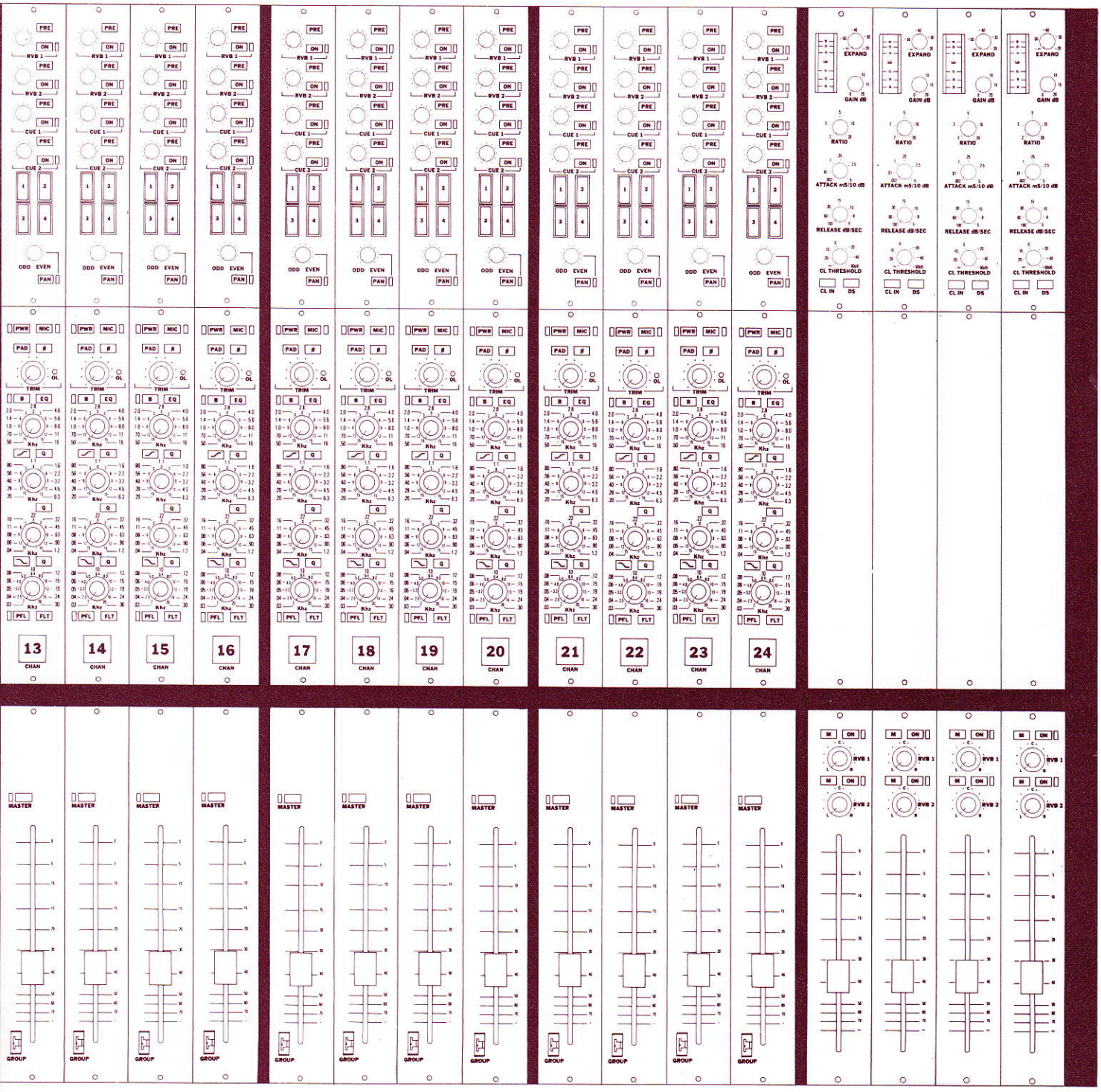
4

Component Series



AUX

PUTS



INPUTS 13-24

OUTPUTS