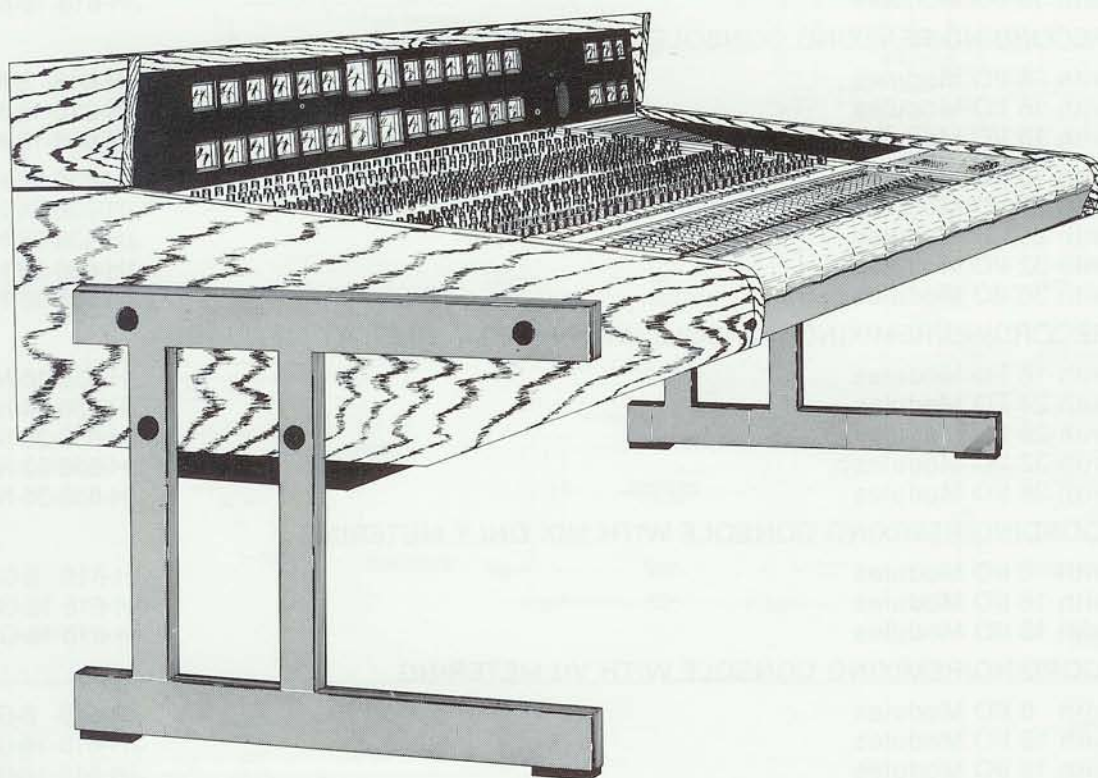




Model Shown:
JH-636-36-AF/VU

PRODUCT CONFIGURATION AND SPECIFICATIONS

- ★ In Line Concept, each I/O module contains one complete microphone channel and one complete remix channel
- ★ Totally transformerless microphone inputs, line inputs and tape outputs
- ★ 24 track assignment with odd-even panning, preferential Direct Assignment
- ★ Stereo/Mono mix capability
- ★ 6 Effects/Foldback Sends
- ★ BUS function allows using Channel busses as additional sends during mix-down
- ★ Multiway quick disconnect connectors for all rear panel input/output connections
- ★ 3 band equalizer with detented controls and High Pass/Low Pass filters — Vari-Q parametric equalizers optionally available
- ★ VU meters or PK/DC Plasma Display metering available
- ★ 3 Fader Packages available
 - NA — non automated
 - GO — VCA grouping with Solo-In-Place
 - AF — Automated Level and Mute including grouping with Solo-In-Place



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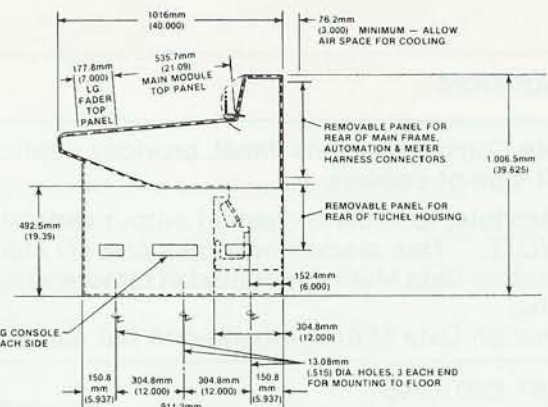
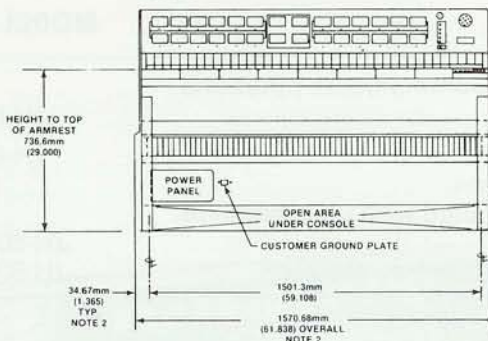
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DESCRIPTION	MODEL NUMBER
NON-AUTOMATED RECORDING/REMIXING CONSOLE WITH MIX ONLY METERING	
JH-618 Frame with 8 I/O Modules	JH-618- 8-NA/MX
JH-618 Frame with 16 I/O Modules	JH-618-16-NA/MX
JH-618 Frame with 18 I/O Modules	JH-618-18-NA/MX
NON-AUTOMATED RECORDING/REMIXING CONSOLE WITH VU METERING	
JH-618 Frame with 8 I/O Modules	JH-618- 8-NA/VU
JH-618 Frame with 16 I/O Modules	JH-618-16-NA/VU
JH-618 Frame with 18 I/O Modules	JH-618-18-NA/VU
JH-636 Frame with 16 I/O Modules	JH-636-16-NA/VU
JH-636 Frame with 24 I/O Modules	JH-636-24-NA/VU
JH-636 Frame with 28 I/O Modules	JH-636-28-NA/VU
JH-636 Frame with 32 I/O Modules	JH-636-32-NA/VU
JH-636 Frame with 36 I/O Modules	JH-636-36-NA/VU
NON-AUTOMATED RECORDING/REMIXING CONSOLE WITH PLASMA DISPLAY METERING	
JH-636 Frame with 16 I/O Modules	JH-636-16-NA/LM
JH-636 Frame with 24 I/O Modules	JH-636-24-NA/LM
JH-636 Frame with 28 I/O Modules	JH-636-28-NA/LM
JH-636 Frame with 32 I/O Modules	JH-636-32-NA/LM
JH-636 Frame with 36 I/O Modules	JH-636-36-NA/LM
VCA GROUPING RECORDING/REMIXING CONSOLE WITH MIX ONLY METERING	
JH-618 Frame with 8 I/O Modules	JH-618- 8-GO/MX
JH-618 Frame with 16 I/O Modules	JH-618-16-GO/MX
JH-618 Frame with 18 I/O Modules	JH-618-18-GO/MX
VCA GROUPING RECORDING/REMIXING CONSOLE WITH VU METERING	
JH-618 Frame with 8 I/O Modules	JH-618- 8-GO/VU
JH-618 Frame with 16 I/O Modules	JH-618-16-GO/VU
JH-618 Frame with 18 I/O Modules	JH-618-18-GO/VU
JH-636 Frame with 16 I/O Modules	JH-636-16-GO/VU
JH-636 Frame with 24 I/O Modules	JH-636-24-GO/VU
JH-636 Frame with 28 I/O Modules	JH-636-28-GO/VU
JH-636 Frame with 32 I/O Modules	JH-636-32-GO/VU
JH-636 Frame with 36 I/O Modules	JH-636-36-GO/VU
VCA GROUPING RECORDING/REMIXING CONSOLE WITH PLASMA DISPLAY METERING	
JH-636 Frame with 16 I/O Modules	JH-636-16-GO/LM
JH-636 Frame with 24 I/O Modules	JH-636-24-GO/LM
JH-636 Frame with 28 I/O Modules	JH-636-28-GO/LM
JH-636 Frame with 32 I/O Modules	JH-636-32-GO/LM
JH-636 Frame with 36 I/O Modules	JH-636-36-GO/LM
AUTOMATED RECORDING/REMIXING CONSOLE WITH MIX ONLY METERING	
JH-618 Frame with 8 I/O Modules	JH-618- 8-AF/MX
JH-618 Frame with 16 I/O Modules	JH-618-16-AF/MX
JH-618 Frame with 18 I/O Modules	JH-618-18-AF/MX
AUTOMATED RECORDING/REMIXING CONSOLE WITH VU METERING	
JH-618 Frame with 8 I/O Modules	JH-618- 8-AF/VU
JH-618 Frame with 16 I/O Modules	JH-618-16-AF/VU
JH-618 Frame with 18 I/O Modules	JH-618-18-AF/VU
JH-636 Frame with 16 I/O Modules	JH-636-16-AF/VU
JH-636 Frame with 24 I/O Modules	JH-636-24-AF/VU
JH-636 Frame with 28 I/O Modules	JH-636-28-AF/VU
JH-636 Frame with 32 I/O Modules	JH-636-32-AF/VU
JH-636 Frame with 36 I/O Modules	JH-636-36-AF/VU
AUTOMATED RECORDING/REMIXING CONSOLE WITH PLASMA DISPLAY METERING	
JH-636 Frame with 16 I/O Modules	JH-636-16-AF/LM
JH-636 Frame with 24 I/O Modules	JH-636-24-AF/LM
JH-636 Frame with 28 I/O Modules	JH-636-28-AF/LM

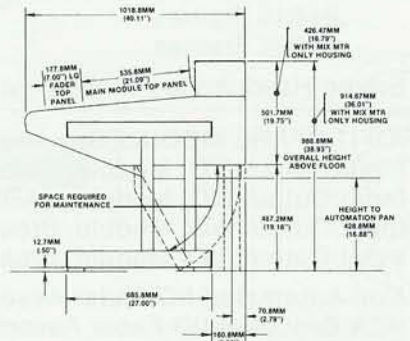
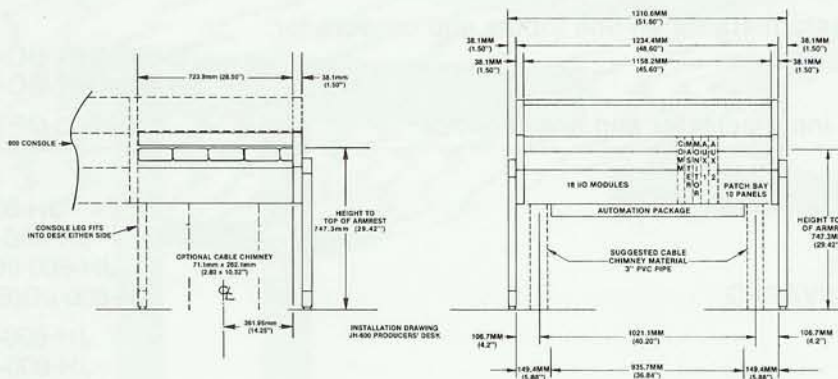
DESCRIPTION	MODEL NUMBER
JH-636 Frame with 32 I/O Modules	JH-636-32-AF/LM
JH-636 Frame with 36 I/O Modules	JH-636-36-AF/LM
JH-652 Frame with 48 I/O Modules and 24 Plasma Display Meters	JH-652-48-AF/LM(24)
JH-652 Frame with 48 I/O Modules and 48 Plasma Display Meters	JH-652-48-AF/LM(48)
JH-652 Frame with 52 I/O Modules and 24 Plasma Display Meters	JH-652-52-AF/LM(24)
JH-652 Frame with 52 I/O Modules and 52 Plasma Display Meters	JH-652-52-AF/LM(52)
MOBILE RECORDING/REMIXING CONSOLE WITH VCA GROUPING	
JH-636 Mobile mainframe (61.8" overall length) designed to secure to the bed of a mobile recording facility. Special features include 8 additional communicate inputs/outputs, Broadcast Option, Send Meters and all mainframe areas accessible from the front. No patchbay is provided.	JH-636M-36-GO/VU
STANDARD OPTIONS	
Four (4) Echo Returns to feed the Stereo Mix Bus and Sends 5/6, installed in an auxiliary module.	JH-600-OPT-2
<i>NOTE: Not available on JH-652 Frame.</i>	
Dual Microphone Input	JH-600-OPT-4
Two microphone Preamplifiers installed on one Input/Output (I/O) module, summed together at their outputs. Gain switch and all other module functions are shared.	
<i>NOTE: Not available on JH-652 Frame</i>	
One Bay (2 rows) of extra tie line points for:	
JH-618 Frames (36 jacks)	JH-600-OPT-5-618
JH-636 Frames (72 jacks)	JH-600-OPT-5-636
Extra tie line points installed in existing patchbays:	
JH-652 Frames (80 jacks)	JH-600-OPT-5-652
Two Bay (4 rows) of extra tie line points for:	
JH-618 Frames (72 jacks)	JH-600-OPT-6-618
JH-636 Frames (144 jacks)	JH-600-OPT-6-636
Extra tie line points installed in existing patchbays:	
JH-652 Frames (160 jacks)	JH-600-OPT-6-652
Microphone Patch Points for:	
JH-618 Frames (18 normalized, insulated insertion points)	JH-600-OPT-7-618
JH-636 Frames (36 normalized, insulated insertion points)	JH-600-OPT-7-636
JH-652 Frames (52 normalized, insulated insertion points)	JH-600-OPT-7-652
Vari-Q, 3 Band Equalizer with true parametric mid range	JH-600-OPT-9
Solder Lug type Tuchel® mating connectors for:	
JH-618 Frames	JH-600-OPT-10-618
JH-636 Frames	JH-600-OPT-10-636
JH-652 Frames	JH-600-OPT-10-652
Built-in Phase Meter	JH-600-OPT-12
Send Meters: 2 VU Meters for JH-618 Frames	JH-600-OPT-13-618
6 VU Meters for JH-636VU Frames	
OR 6 LED PK Meters for JH-636LM Frames	JH-600-OPT-13-636
Four "Wild" VCA Faders, normalized to Echo Returns 1 thru 4	
<i>NOTE: Available only on Automated (AF) JH-618 and JH-636 Frames</i>	JH-600-OPT-14/AF
Phantom Power Supply	JH-600-OPT-15
Auxiliary Line Inputs and Outputs providing rear connector and patchbay access for dual multitrack recorders, for:	
JH-618 Frames	JH-600-OPT-17-618
JH-636 Frames	JH-600-OPT-17-636
Stereo Line Input Module	
Takes the place of an I/O Module to provide inputs for either of two stereo input pairs. Routing is selectable to the Channel, Mix, and Send busses.	
For Non-Automated Consoles	JH-600-OPT-20/NA
For VCA Grouping Consoles	JH-600-OPT-20/GO
For Automated Consoles	JH-600-OPT-20/AF

DESCRIPTION	MODEL NUMBER
Remote Communications Panel, provides duplication of 4 Communicate functions on left side of console	JH-600-OPT-21
ACN Module, to expand channel output capability by six. <i>NOTE: This module occupies one I/O Module position.</i>	JH-600-OPT-22
Automation Data Matrix, mounted in remote wrap to be installed with tape machine remotes.	JH-600-OPT-23-1
Automation Data Matrix, mounted in flat panel for installation into tabletop.	JH-600-OPT-23-2
BROADCAST OPTIONS	
Configures the console for Live, Broadcast or Production Applications. Includes "Broadcast Audio Flow", true PFL solo with separate ACN and Amplifier, Individual Module Audio Power Fusing, and DC fader down/mute sensing lines for both Channel and Monitor I/O faders.	JH-600-OPT-BC
Line Input and Output Isolation Transformers for all line inputs and outputs for: JH-618 Frames	JH-600-OPT-BC-E-618
JH-636 Frames	JH-600-OPT-BC-E-636
Stereo Headphone Amplifier, with 4 input selector and level control.	JH-600-OPT-BC-I
RETROFIT/SPARE MODULES	
Input/Output (I/O) Module, Standard	JH-600-I/O
Input/Output (I/O) Module, VARI-Q	JH-600-I/O(9)
Input/Output (I/O) Module, Broadcast	JH-600-I/O(BC)
Input/Output (I/O) Module, Broadcast/VARI-Q	JH-600-I/O(BC-09)
Non-Automated I/O Fader Assembly	JH-600-F/NA
VCA Grouping I/O Fader Assembly	JH-600-F/GO
Automated I/O Fader Assembly	JH-600-F/AF
Standard Equalizer Assembly	JH-600-EQ
VARI-Q Equalizer Assembly	JH-600-EQ(9)
Stereo Line Input Module	JH-600-S/L
Stereo Line Input Module with Channel ACN Amplifier	JH-600-S/L-A
Non-Automated Stereo Line Input Fader Assembly	JH-600-F-SL/NA
VCA Grouping Stereo Line Input Fader Assembly	JH-600-F-SL/GO
Automated Stereo Line Input Fader Assembly	JH-600-F-SL/AF
Additional Plasma Display	JH-600-41
Peak Ballistics Calibrator for Plasma Display	JH-49
ACCESSORIES	
One-Foot Long Patch Cord	PC-1
Two-Foot Long Patch Cord	PC-2
Additional Cable Chimney	JH-600-C/C
Producers' Desks:	
2½ ft. desk matching the console profile, includes 10 Remote function controls.	JH-600-PD-L
No meter housing is included. Specify Left or Right.	JH-600-PD-R
VU meter style meter housing	JH-600-PD/H-VU
LM meter style meter housing	JH-600-PD/H-LM
SYSTEM SPARE PARTS KITS	
"Active Spares" Kit, contains transistors, ICs, etc., for console	JH-600-S-KIT-1
"Control Spares" Kit, contains potentiometers, switches, relays, etc., for console and Automation (AF) System	JH-600-S-KIT-2
"PCA Spares" Kit, contains PC Assemblies for console	JH-600-S-KIT-3
"Light Meter" Kit, contains spares for Plasma Display System	JH-600-S-KIT-LM
"BC Spares" Kit, contains spares for BC option	JH-600-S-KIT-BC
PACKAGING	
Crating suitable for motor and air freight (unit mounted on wooden base with heavy duty Toro Pads and Tri-wall sleeve and cover) for:	
JH-618 Frames	JH-618-CRT
JH-636 Frames	JH-636-CRT
JH-652 Frames	JH-652-CRT
JH-600 Producers' Desks	JH-600-PD-CRT

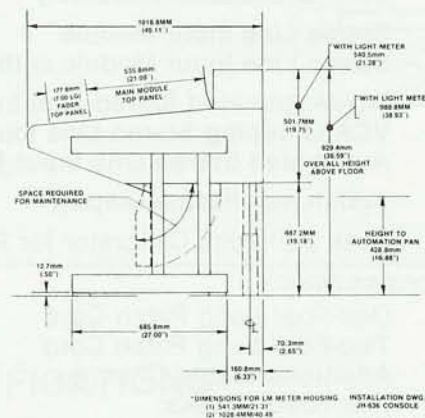
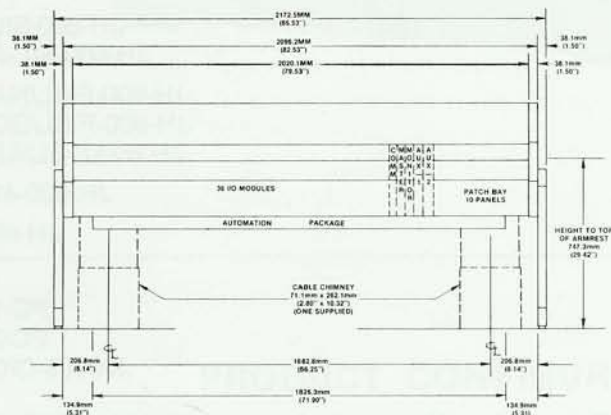
NOTES:
1. DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED. DIMENSIONS IN PARENTHESIS ARE IN INCHES.
2. DECORATIVE COVER PANEL EACH SIDE EXTENDS 127mm (5.00") EACH SIDE BEYOND MAIN METAL END. MAY BE REMOVED IF REQUIRED.



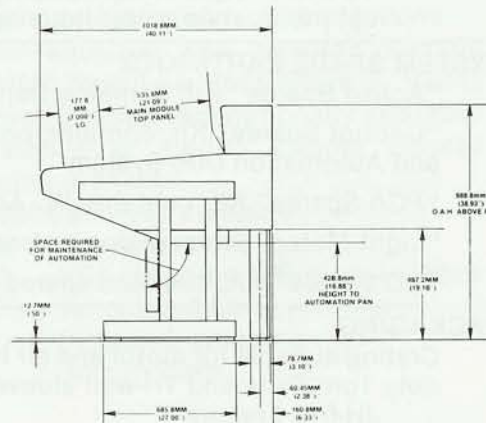
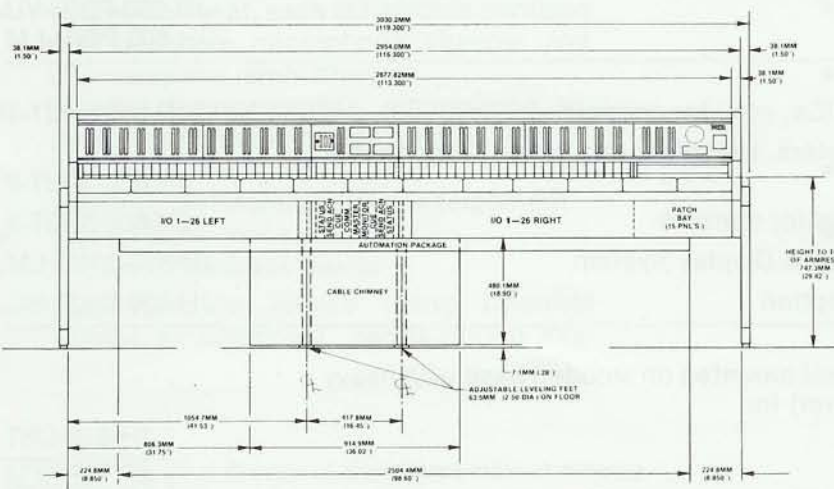
INSTALLATION DRAWING
JH-636 MOBILE



INSTALLATION DRAWING
JH-636 PRODUCER'S DESK



INSTALLATION DRAWING
JH-636 CONSOLE



INSTALLATION DRAWING
JH-636 CONSOLE

Mike Preamp

Input Impedance: >1500 Ω diff.
Output Impedance: <10 Ω
Gain Range:
 Low range 12 dB to 35 dB
 High range 30 dB to 65 dB
Equiv. Input Noise: (per preamp) -129 dBv, ref. .775v rms
Band Width: 20 Hz - 18 kHz
Gain: 65 dB
Freq. response: +0-1/2 dB 15 Hz - 20 kHz
IM dist.: <.05%, 3 dB below clipping
Max output level at patch:
 +22 dB, ref .775v rms into 2k Ω
Nominal output level at patch: -2 dBv, ref .775v rms
Phantom power: Balance resistors provided,
 individual on/off switch on each module.

Line Input

Input Impedance: >7k Ω differential
Gain Range: switched -6, 0, +6 dB
Nominal Input Lvl: +4 dBv ref .775v rms
Max Input Lvl: +28 dBv, ref .775v rms

Line Output

Output Impedance: <120 Ω
Nominal Out Lvl: +4 dBv, ref .775v rms
Max Output Lvl: +27 dBv, ref .775v rms

Standard EQ

Low Pass Filter: 18 dB/Oct slope 3 dB point at 16 kHz
Hi Pass Filter: 18 dB/Oct slope 3 dB point at 45 Hz
Low Shelf:
 Freq. range: 30 Hz - 250 Hz
 Boost/Cut range: ± 14 dB
High Shelf:
 Freq. range: 4.6 kHz - 16 kHz
 Boost/Cut range: ± 14 dB
Mid Peak:
 Freq. range: 180 Hz - 10 kHz
 Boost/Cut range: ± 14 dB
Phase Reverse provided.
Tolerance: $\pm 10\%$ on all controls
Nominal Lvl: entire EQ operates at -2 dBv, ref. .775v
Max Lvl: +23 dBv, ref .775v rms
Noise floor: -100 dBv, ref. .775v rms
 Band width 20 Hz - 18 kHz

Optional Parametric EQ

Low Pass Filter: 18 dB/Oct slope 3 dB point at 16 kHz
Hi Pass Filter: 18 dB/Oct slope 3 dB point at 45 Hz
Low Shelf/Peak:
 Freq. range: 30 Hz - 250 Hz
 Boost/Cut range: ± 14 dB
 Q (2 steps): .4 and .8
High Shelf/Peak:
 Freq. range: 4.6 kHz - 16 kHz
 Boost/Cut range: ± 14 dB
 Q (2 steps): .4 and .8
Mid Peak:
 Freq. range: 180 Hz to 10 kHz
 Boost/Cut range: ± 14 dB
 Q range: continuously variable
 from .3 to 3

Optional Parametric EQ (continued)

Phase Reverse provided.
Tolerance: $\pm 10\%$ all controls
Nominal Lvl: entire EQ operates at -2 dBv, ref .775v
Max Lvl: +23 dBv, ref .775v rms
Noise floor: -100 dBv, ref .775v rms
 Band width 20 Hz - 18 kHz
 All Boost/Cut controls on zero
 HP and LP not engaged

Channel Output Bus

Headroom: 24 dB
Noise floor: One Channel Assigned.
 JH-618: <-86 dBv, ref .775v rms
 JH-636: <-82 dBv, ref .775v rms
 JH-652: <-80 dBv, ref .775v rms
Channel Direct Assigned:
 All frames: <-88dBv, ref .775v rms
Bandwidth: 20 Hz - 18 kHz
Crosstalk: 20 Hz >80 dB
 16 kHz >70 dB

Monitor Mix Busses

Headroom: 24 dB
Nominal Levels at:
 fader patch: -2 dBv, ref .775v rms
 line output: +4 dBv, ref .775v rms
Max Levels at:
 fader patch: +23 dBv, ref .775v rms
 line output: +27 dBv, ref .775v rms
Separation: 16kHz - 20kHz >65dB
Noise floor: JH-618: <-88 dBv, ref .775v rms
 JH-636: <-84 dBv, ref .775v rms
 JH-652: <-80 dBv, ref .775v rms
Bandwidth: 20 Hz - 18 kHz
Output: differential active balanced output
Nominal Lvl: +4 dBv, ref .775v rms
Max Lvl: +23 dBv, ref .775v rms
Outputs: Transformer Impedance <150 Ω

Oscillator

Three oscillators are provided.
Slate: fixed 20 Hz@-18 dBv, ref .775v rms
Noise: white and pink variable level from -40 dBv
 to +10 dBv, ref. .775v rms
Wien: 20 Hz - 20 kHz Auto Leveling Output variable
 from -40 dBv to +10 dBv ref. .775v rms

Communicate Functions

Four provided:
Talkback: to studio
Comm: to cue mix
Slate: to TKS & Mix, sending to TKS adjusts Mix Level
Conductor: Output to separate cond. headphones

Automation

Automation will be functionally identical to all MCI
JH-50 systems.

Specifications subject to change as innovative advancements in technology are incorporated.



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