

SECTION 11

STEREO LINE INPUT MODULE

THE JH-600 STEREO LINE INPUT MODULE

The Stereo Line Input Module replaces an I/O module, and provides an input for either of two stereo sources.

This Module incorporates the following features:
(See top panel layout)

Inputs:

Two stereo balanced inputs designated A and B which are switch selected. +4dBv nominal input, +28dBv maximum.

L/Both/R Switch:

Selects only the left or right input or both.

L & R Patchpoints:

-2dBv nominal, +22dBv maximum.

High Pass Filter:

18 dB/octave $f_0 = 45\text{Hz}$.

Low Pass Filter:

18 dB/octave $f_0 = 16\text{kHz}$.

Meter:

Will read right or left level or the higher of the two.

Balance Enable:

Activates a balance control which allows 6dB of balance trim.

PFL:

Pre Fader Listen, the same as I/O Module.

Solo:

Post Fader Feed to Solo Bus.

Outputs:

2 Mix:

Stereo feed to mix busses via a Mute switch.

Sends:

Three pots control stereo feeds to 1 & 2, 3 & 4, 5 & 6. 3dB of reserved gain remains on each control in the nominal position. A Pre/Post switch is provided for each pair.

Channel ACN's:

Busses are fed via an Odd/Both/Even switch to the ACN buttons on the module. This system is similar to the I/O Module.

Remote Start:

Three remote start outputs (Mute Sense) are supplied. One for the "A" input, one for the "B" input and one which is always active. The "Mute Sense" lines are held low until the VCA is unmuted. The "A" and "B" sense lines are tied to the input selector switch, so that the mute output of the selected input follows the Mute switch, the unselected is held low.

These outputs are capable of driving 1 TTL load, i.e., 1ma High and 3ma Low.

Channel Line Output:

An OPTIONAL channel line output with ACN amp and ACN trim control. This option may be

necessary if the module is used in a location which would feed a multitrack input.

This module is designated Option 20-1 when shipped without channel line output, and Option 20-2 when shipped with channel line output.

Installation

One cable assembly must be installed in the frame for each pair of input modules. Use cable WDA0600-0427-00 for a JH-618 frame or cable WDA0600-0427-01 for a JH-636 frame.

The Tuchel connectors are mounted into the spare locations which follow the microphone input connectors, #67 and up on the JH-636, #34 and up on the JH-618. Before each cable is installed, a wire marker should be added to the cable to identify it later. These cables should be routed to the I/O locations where the modules are to be located. Any excess cable should be tie-wrapped neatly and left in the cable trough near the Tuchel connectors. Do not shorten the cables. If the user decides to move the module to another location, the excess cable may be necessary.

(Bottom view of I/O motherboard)

Front of Console	Patchbay →
↑	↑
BLK/GRY	ORN/RED
VIO	WHT
MUTES	YEL
GRN	BLU

NOTE: The BRN cable and the VIO cable from the original harness are not used — DO NOT CUT THEM OFF. The connector labeled "Mutes" is the 6 pin Amp connector with the three 22 ga. wires.

The existing fader package must be replaced with a PCA0600-0128-01 assembly and new harness must be added.

The two additional harnesses required to adapt the mainframe for the Stereo Line Input Module are: for the JH-618, WDA0600-0427-00; and for the JH-636, WDA0600-0427-01.

The following pages contain adjustments, top panel callouts and schematics for the Stereo Line Input Module.

The label shown below is used to indicate the Stereo Input and Mute Sense lines on the Stereo Line Input Module. This label is installed on factory consoles with this option (Option 20).

When retrofitting this module, it is suggested that these labels be used to eliminate errors in wiring.

Stereo Input # _____	
Row 0	A Input Right
Row 9	A Input Left
Row 8	B Input Right
Row 7	B Input Left

Stereo Input # _____	
Row 6	A Input Right
Row 5	A Input Left
Row 4	B Input Right
Row 3	B Input Left

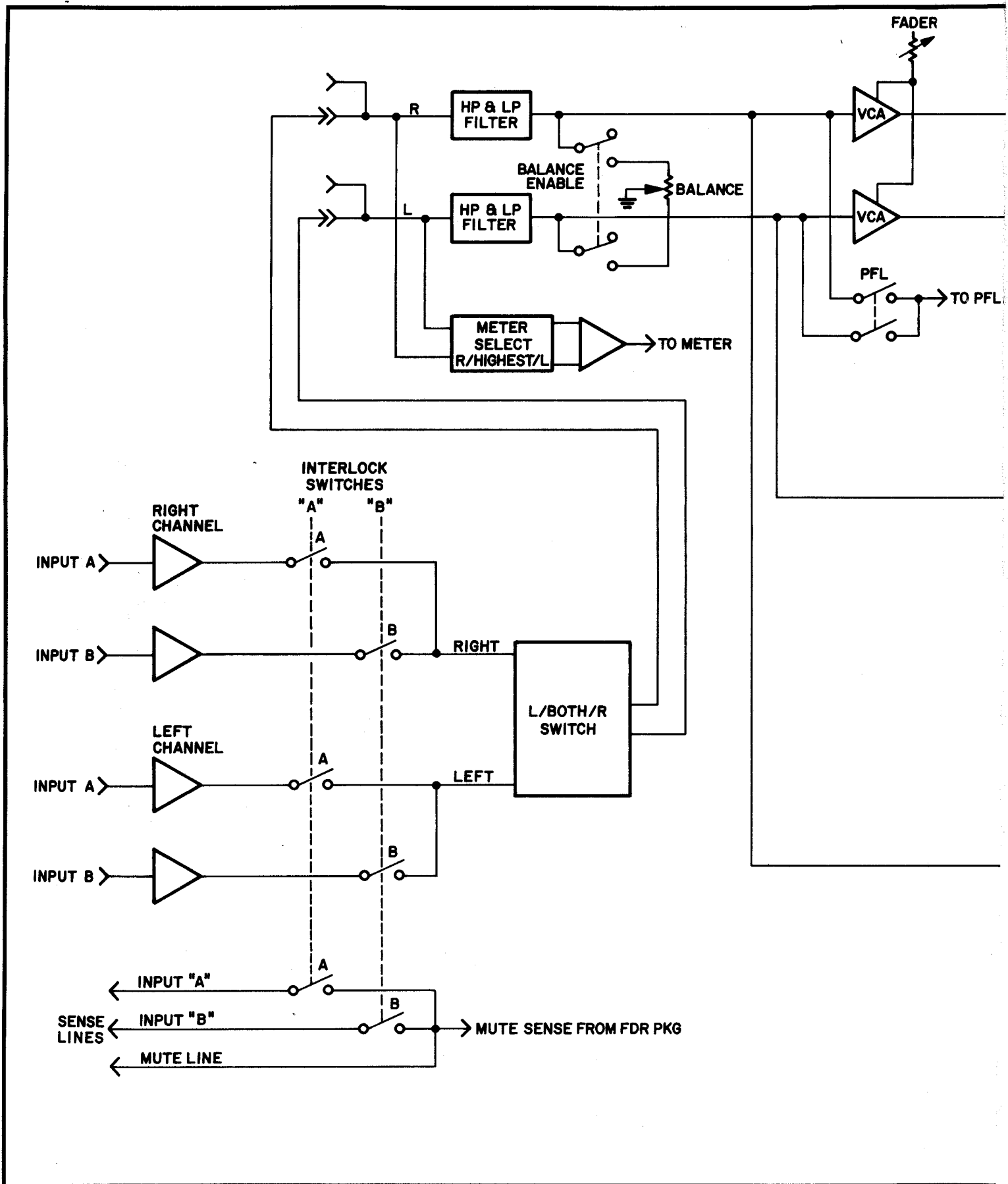
Row 2	Mute Sense # _____
Row 1	Mute Sense # _____

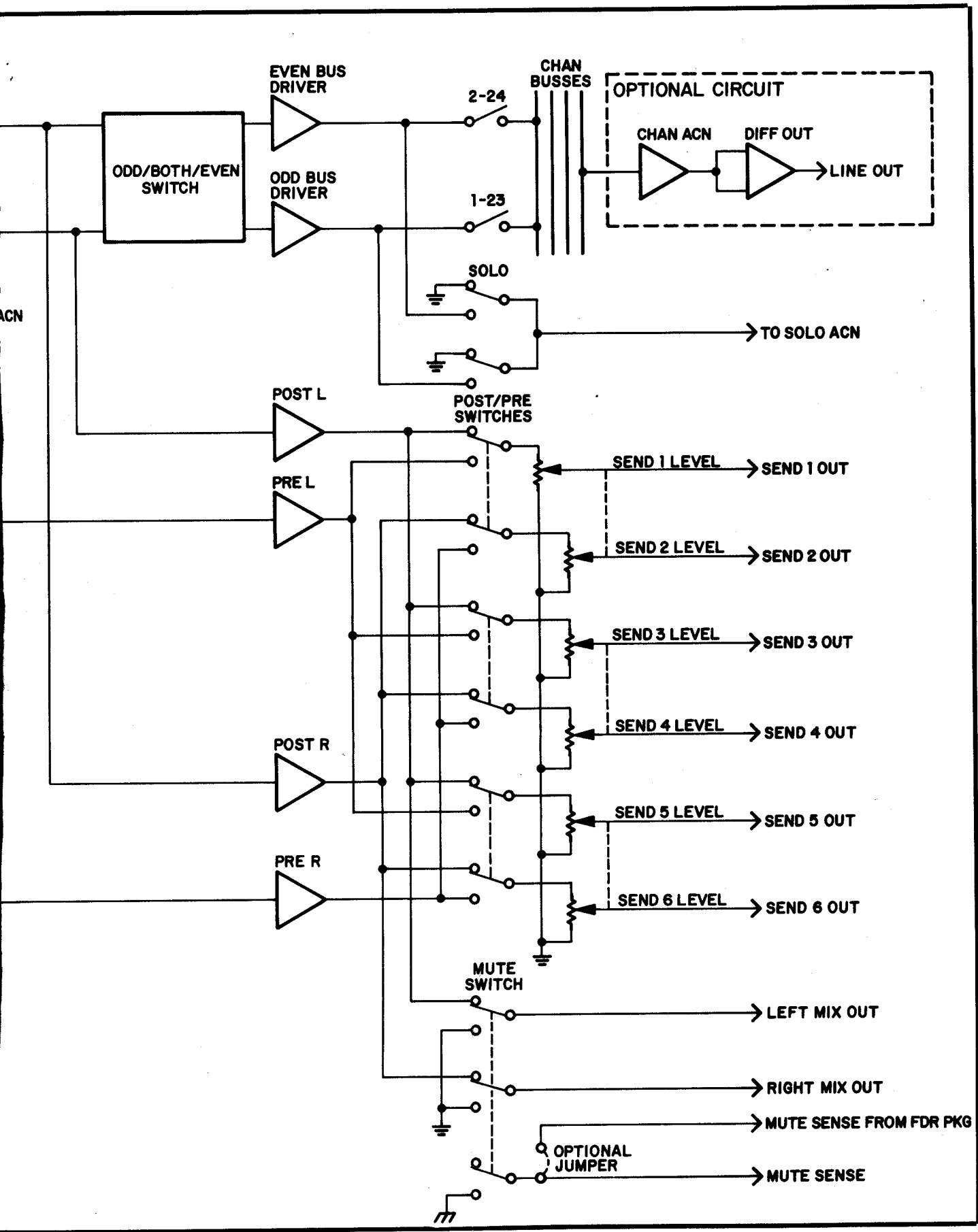
Differential Output Symmetry Adjustment

1. Inject a 1kHz signal into the A or B inputs at +4dBm. Check master audio fader for full position.
2. Monitor the channel line out with an ac voltmeter and an oscilloscope at the patchbay. Adjust R718, the differential output adjust, for equal output on both the high and low sides of the differential output referenced to ground.

VCA IM Adjustments

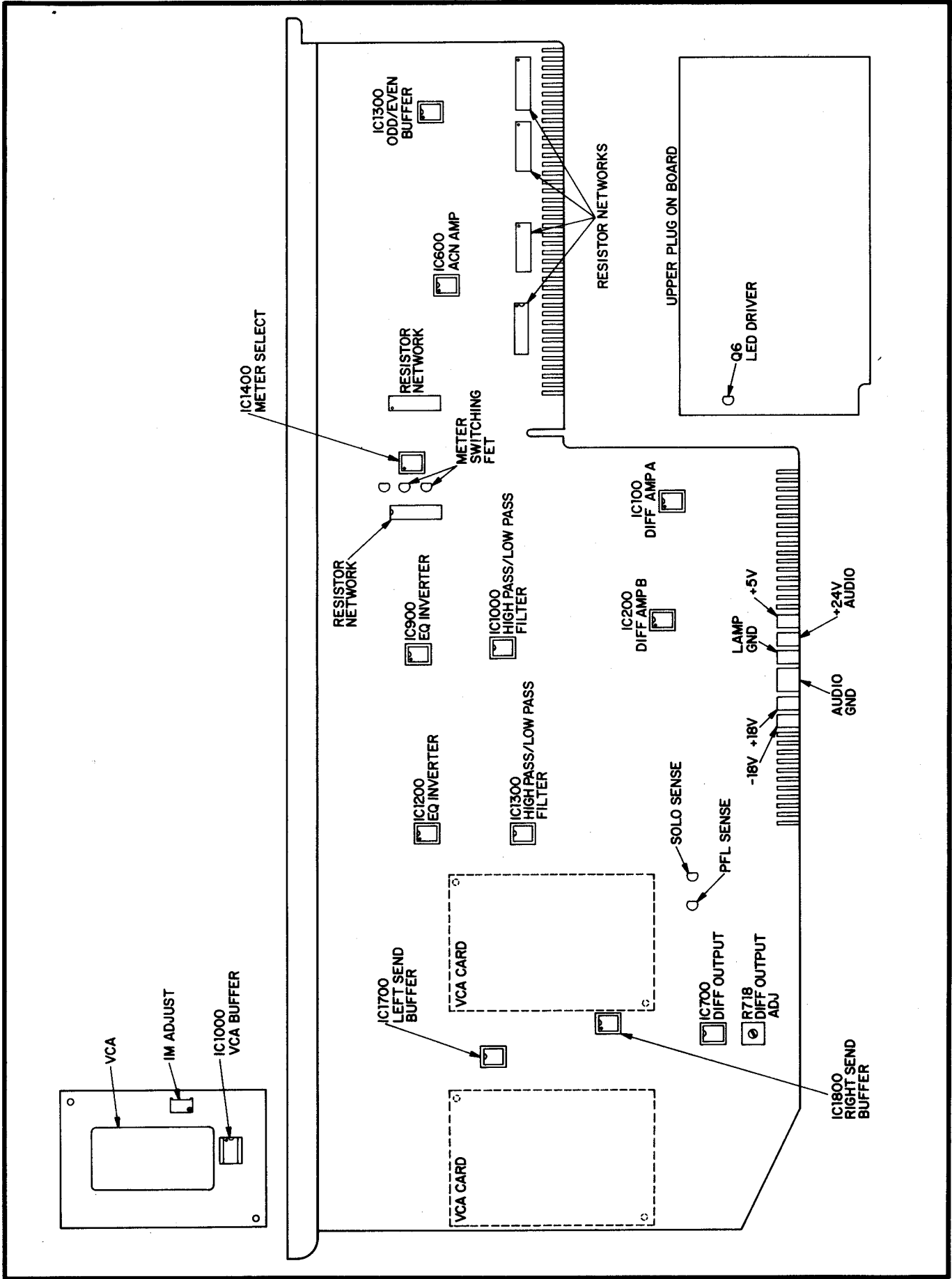
1. Select input A.
2. Set the VCA fader to 0dB and set the balance to full left or right.
3. Inject an IM signal into the input and take out +4dBv at the 2MIX left or right.
4. Adjust R1008, the IM adjust on the A VAC Card, for minimum IM distortion at the master 2MIX output.
5. Select input B and repeat steps 2, 3, and 4 for the B VCA Card.

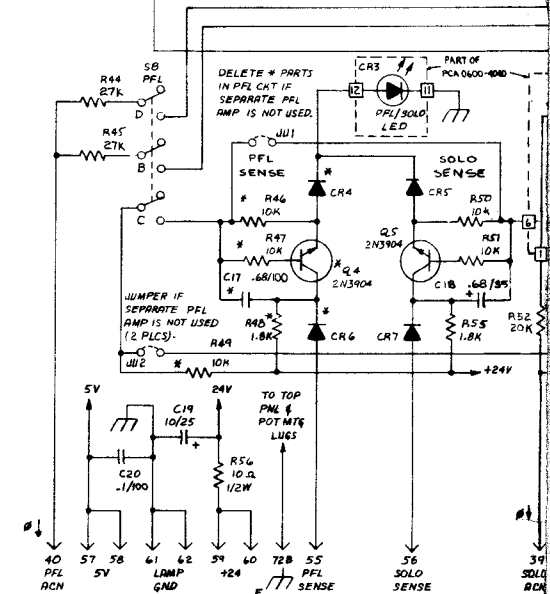
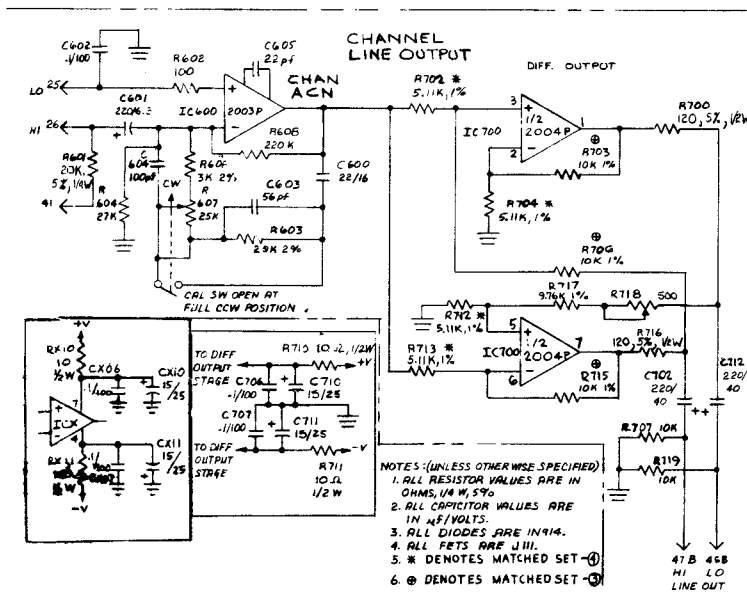
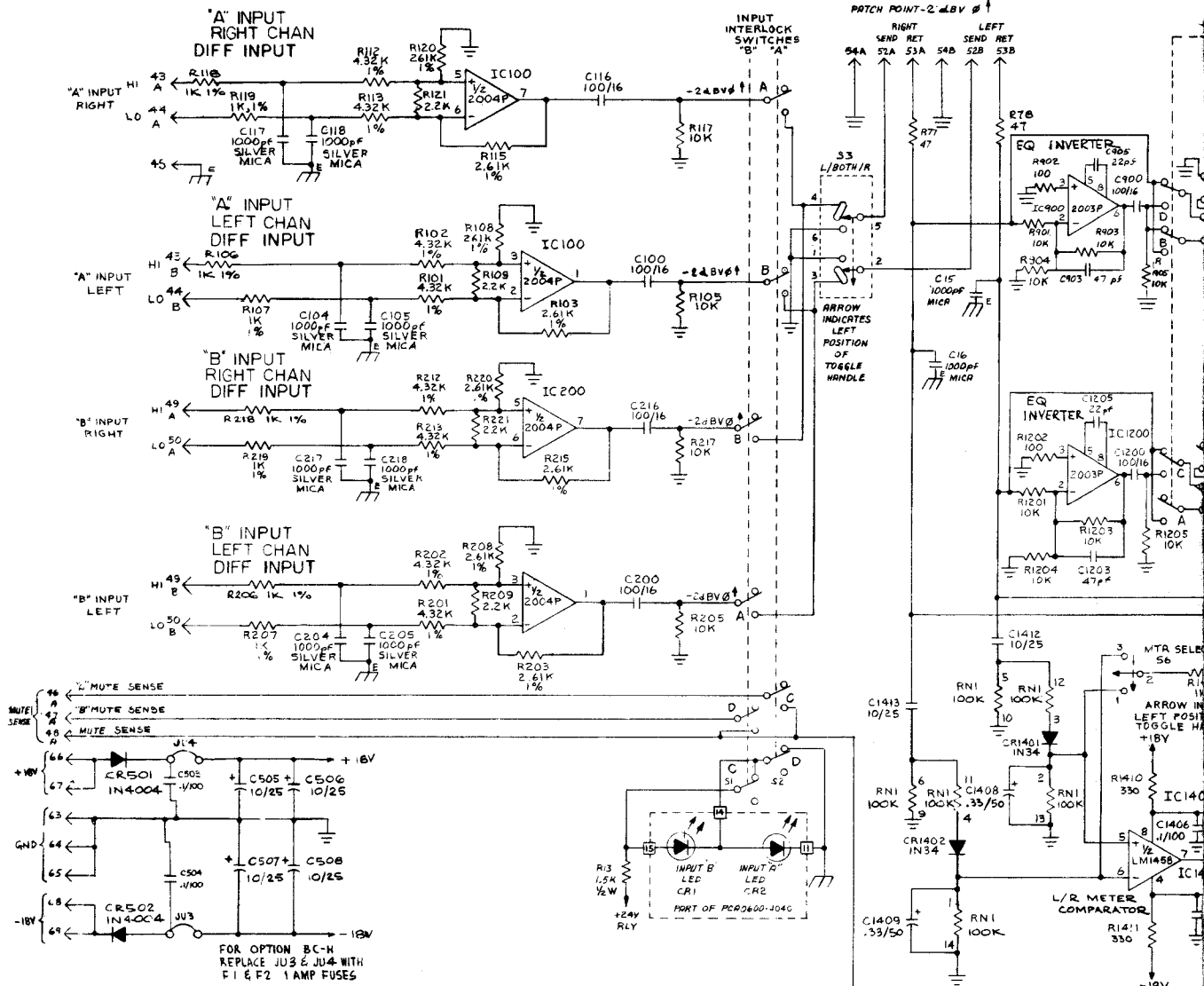


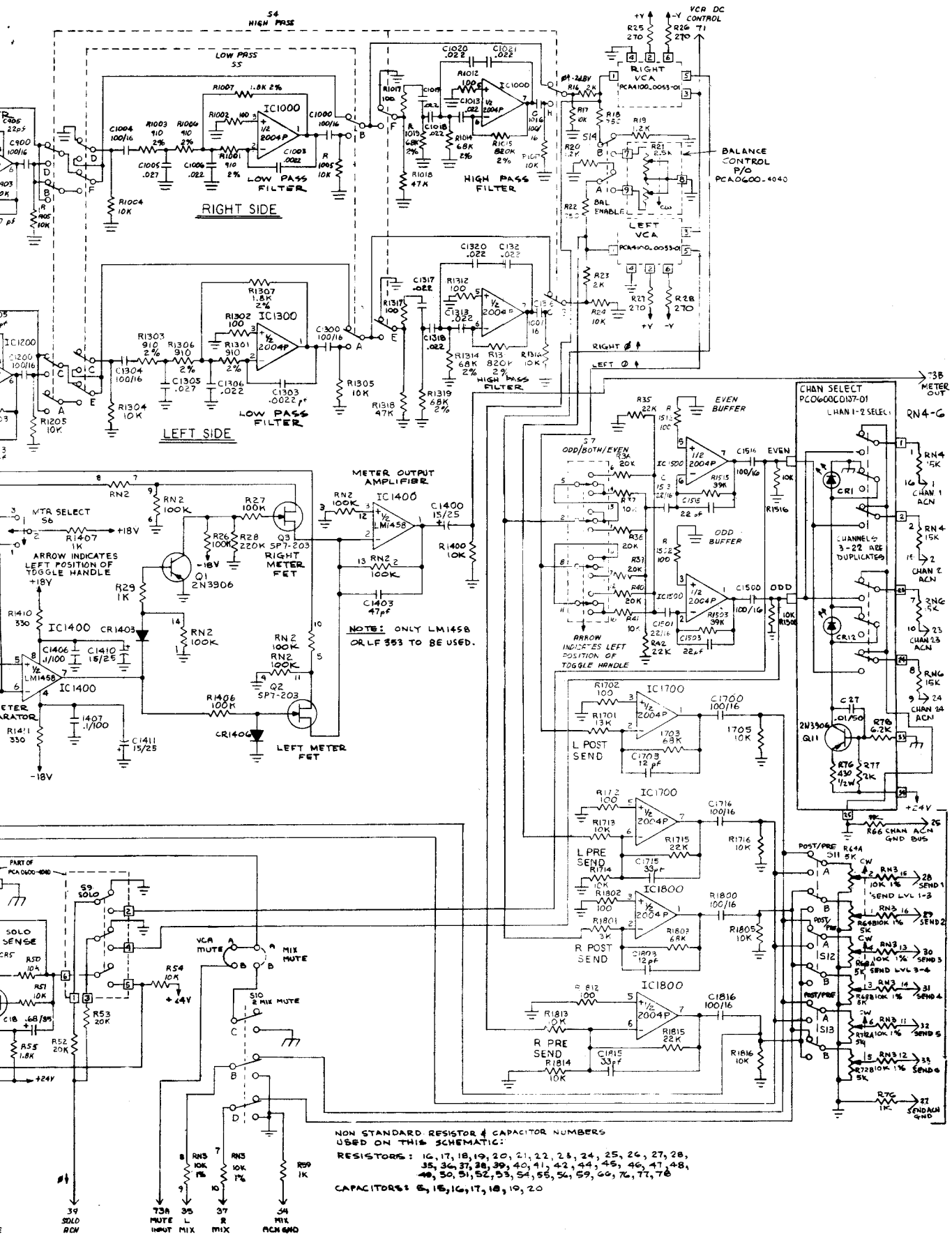


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Stereo Line Input Module
Signal Flow Diagram





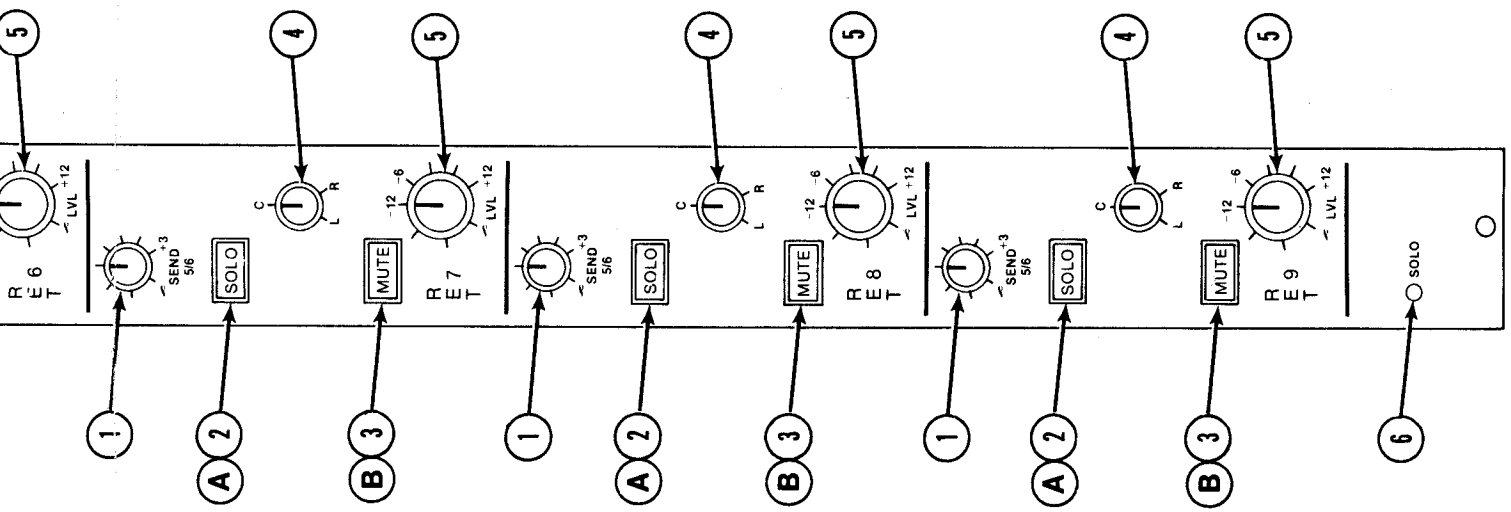


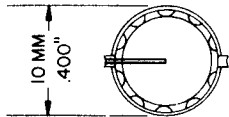
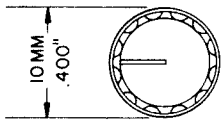
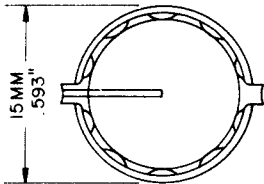
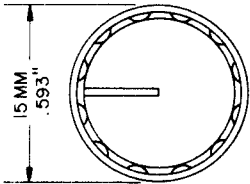
**Stereo Line Input Module
SC0600F4039-00 rev D**

6	INPUT SELECT SWITCH	7211SD9AV2
7	"A" SELECT SWITCH	SP-7100-2307-52
8	"B" SELECT SWITCH	SP-7100-2307-52
9	LC PASS SWITCH	SP-7000-2305-18
10	HI PASS SWITCH	ASA0600B0141-00
11	SEND 1/2 LVL POT	SP-7000B0206
12	PRE SWITCH	SP-7000-2305-12
13	SEND 3/4 LVL POT	SP-7000B0206
14	PRE SWITCH	SP-7000-2305-12
15	SEND 5/6 LVL POT	SP-7000B0206
16	PRE SWITCH	SP-7000-2305-14
17	MUTE SWITCH	SP-7000-2305-14
18	BALANCE SWITCH	SP-7000-2305-14
19	SOLO SWITCH	SP-7000-2305-18
20	BALANCE PAN POT	SP-7000-2305-14
21	PFL SWITCH	SP-7000B0278
22	SOLO LED	SP-7000-2305-14
23	"A" INPUT LED	MV5374
24	"B" INPUT LED	XC209G
		MV5075

UNIQUE PARTS FOR STEREO INPUT MODULE

DESCRIPTION	PART NO.
OP AMP	TL082
OP AMP	2004P
TRANSISTOR	2N3906
FET	SP-7000-0203-00
SLIM PCB ASSY.	PCA0600-4039-00
LOWER PCB ASSY.	PCA0600-4040-00
CHN ASSN. PCB ASSY.	PCA0600-0137-00
4 PIN MOLEX	09-52-3043
3 PIN MOLEX	09-52-3033
VCA PCB ASSY.	PCA4100-0053-00
VCA	DBX202C
TOP PANEL	MC-0600-0089-00
DIODE	J4
DIODE	IN34
POT DIFF OUTPUT	TAPCOT500-18T





KNOBS FOR JH-600 CONSOLES

SIZE	PART NUMBER	STYLE
MM	WITHOUT WINGS	CAP (BOTH KNOBS)
15	2015613	3015013
10	2010313	3010313

CAPS FOR IO MM ONLY

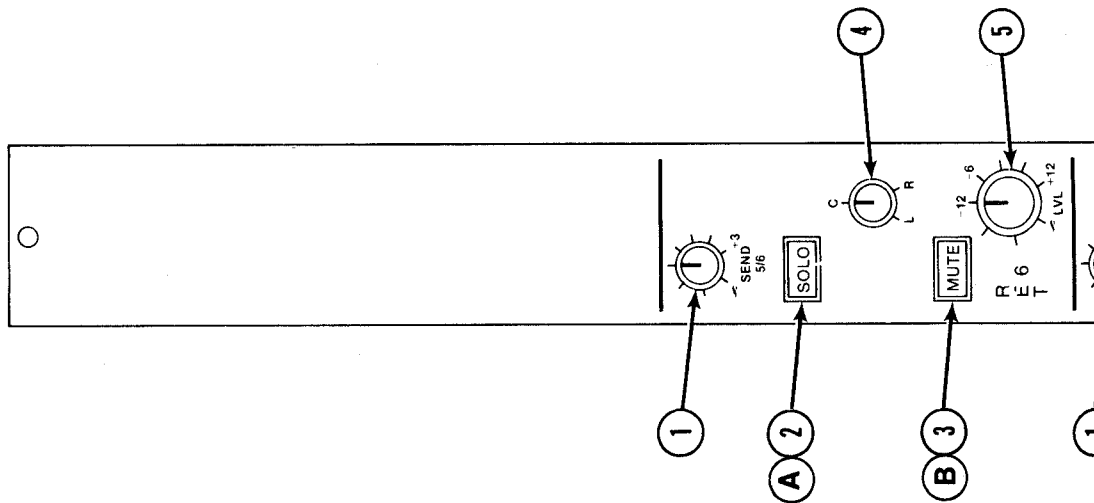
CAPS	PART NUMBER
LIGHT GRAY	3010011
BLACK	3010013
RED	3010014
BLUE	3010015
YELLOW	3010016
GREEN	3010017

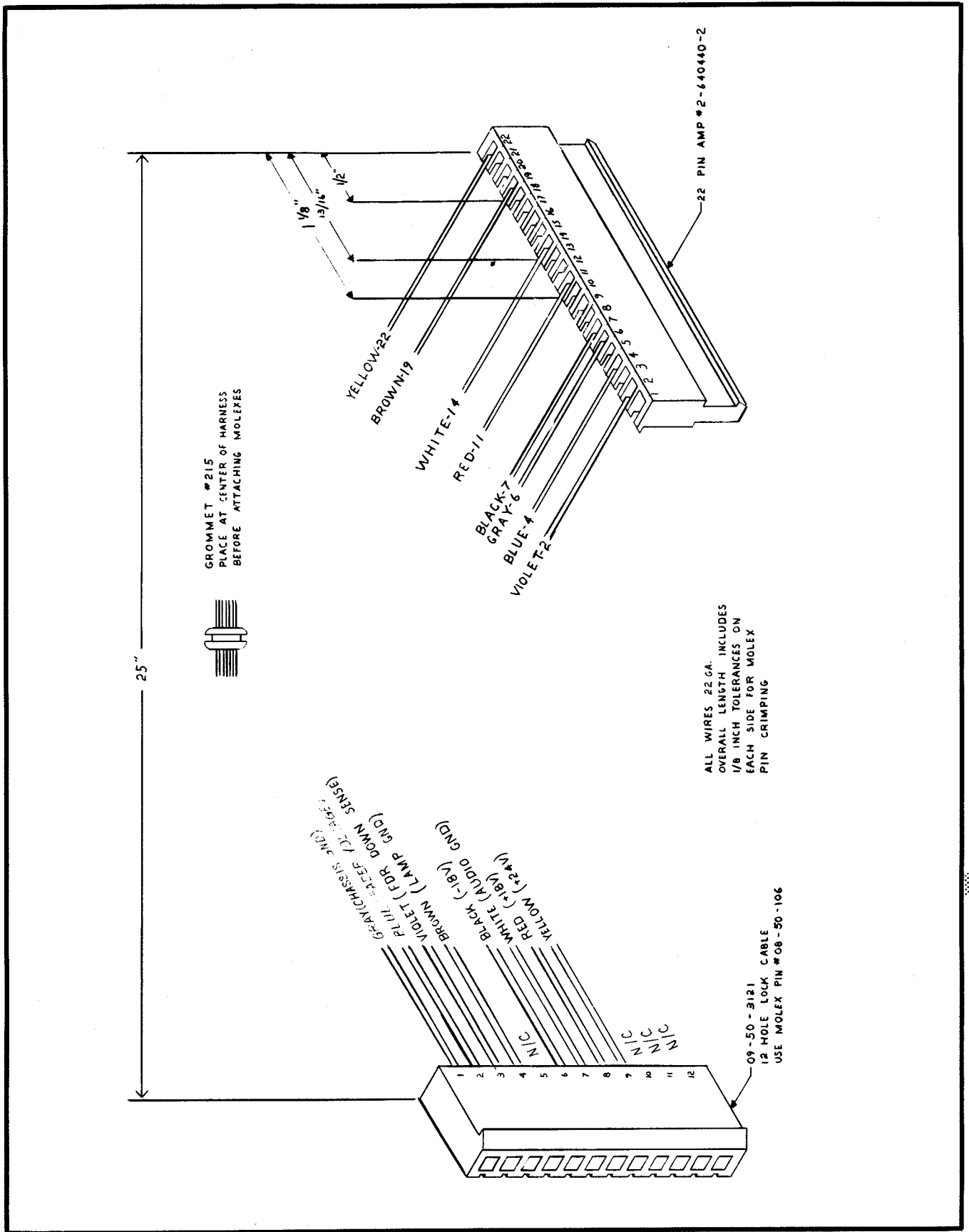
BUTTONS FOR STEREO INPUT MODULE

REF. NO.	BUTTON DESCRIPTION	PART NO.
A	BUTTON CAP	SP-7000-2306-80
B	"A" INPUT	SP-7100-0114-41
C	"B" INPUT	SP-7100-0114-42
D	PRE	SP-7100-0114-05
E	MUTE	SP-7100-0114-08
F	SOLO	SP-7100-0114-01
G	BAL	SP-7100-0114-03
H	PFL	SP-7100-0114-02

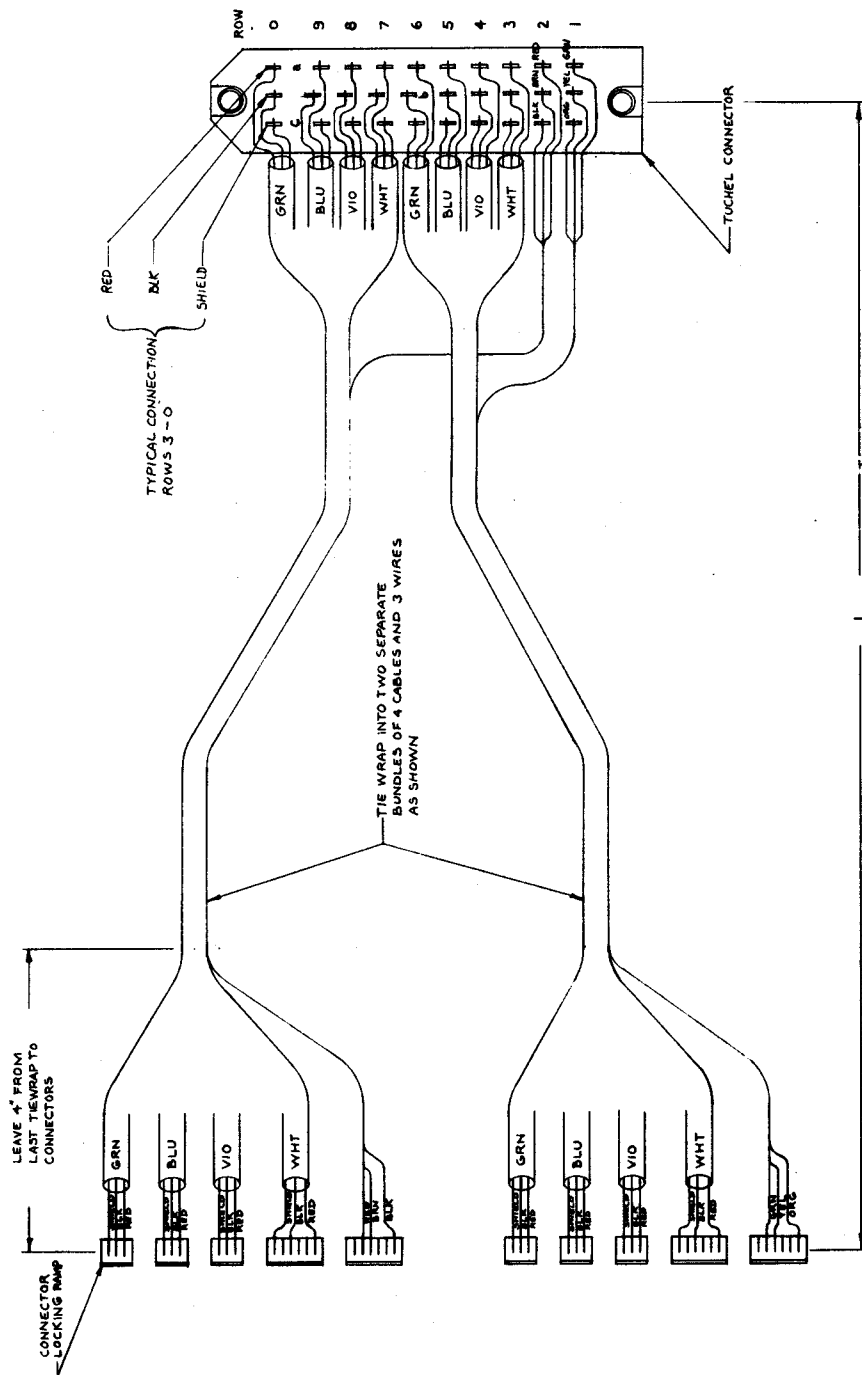
CONTROLS FOR STEREO INPUT MODULE

REF. NO.	CONTROL	PART NO.
1	CHN ASSN LED	MV5075
2	CHN ASSN SWITCH	SP-7000-2305-14
3	BUS TRIM POT	SP-7000B0220
4	ODD/PAN/EVEN SWITCH	7411SDAV2
5	METER SELECT SWITCH	7103SD9AV2
6	INPUT SELECT SWITCH	7211SD9AV2
7	"A" SELECT SWITCH	SP-7100-2307-52
8	"B" SELECT SWITCH	SP-7100-2307-52

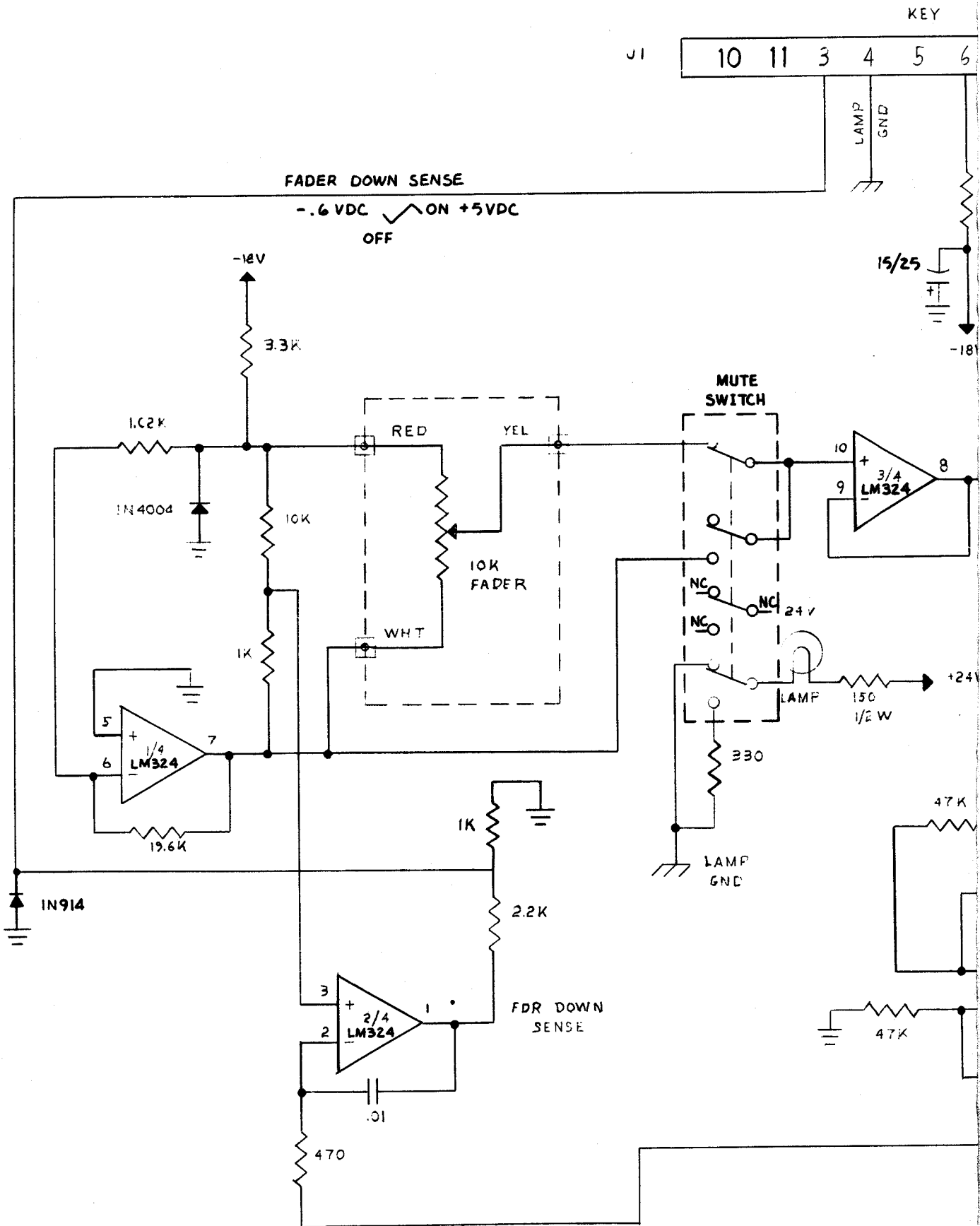




**Stereo Line Input Non-Automated
VCA Motherboard to Fader Harness
WD0600C3186 rev A**



Stereo Line Input Adaptor Cable
WD0600C0427



NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL RESISTOR ARE IN OHMS, 1/4 W
2. ALL CAPASITOR VALUES ARE IN MICROPARADS/VOLTS.

