

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
1	PROTOTYPE RELEASE		
2	PROTOTYPE RELEASE		
3	PROTOTYPE RELEASE		
4	PROTOTYPE RELEASE		
A	PROTOTYPE RELEASE		
B	PROTOTYPE RELEASE		
C	RELEASE FOR PRODUCTION PER ER#42-541	01-25-95	T.M.
D	REVISED PER ECO# 3065	3/21/95	TM

- SHT 1 COVER SHEET
- SHT 2 CHANNELS 1 & 2 INPUT DIFF AMPS AND FRONT PANEL CONNECTORS.
- SHT 3 CHANNELS 3 & 4 INPUT DIFF AMPS.
- SHT 4 HEADPHONE AMP AND GUITAR & MIC INPUT PREAMPS.
- SHT 5 CHANNELS 1 & 2 INPUT MUTING, PRE-EMPHASIS AND FILTER.
- SHT 6 CHANNELS 3 & 4 INPUT MUTING, PRE-EMPHASIS AND FILTER.
- SHT 7 CHANNELS 1 & 2 A/D CONVERTER.
- SHT 8 CHANNELS 3 & 4 A/D CONVERTER AND MASTER CLOCK GENERATOR.
- SHT 9 D/A CONVERTER AND SAMPLE AND HOLDS.
- SHT 10 OUTPUT FILTERS, DE-EMPHASIS AND PRE MIXING.
- SHT 11 CHANNELS 1 & 2 OUTPUT DRIVERS WITH MUTING AND POST MIXING.
- SHT 12 CHANNELS 3 & 4 OUTPUT DRIVERS WITH MUTING AND POST MIXING.
- SHT 13 VOLTAGE REGULATORS, +4/-10 SWITCH AND OFF BOARD CONNECTORS.

- 3. ALL 0.1UF BYPASS CAPACITORS ARE 50V +80/-20% Z5U.
- 2. ALL CAPACITOR VALUES ARE IN MICROFARADS, 16V MINIMUM.
- 1. ALL RESISTOR VALUES ARE IN OHMS, 1/8W 5%.

NOTES - UNLESS SPECIFIED OTHERWISE:

COVER SHEET

ENSONIQ Corp 155 GREAT VALLEY PKWY, MALVERN PA 19355			
APPROVALS	DATE	PCB SCHEMATIC ANALOG BOARD SHAKER	
DWN BY: BAVL	8-4-94		
CHKD BY:			
APPD BY:		SIZE B	DWG. NO. 4010025101
USED ON:	SCALE —	SHEET 1	OF 13

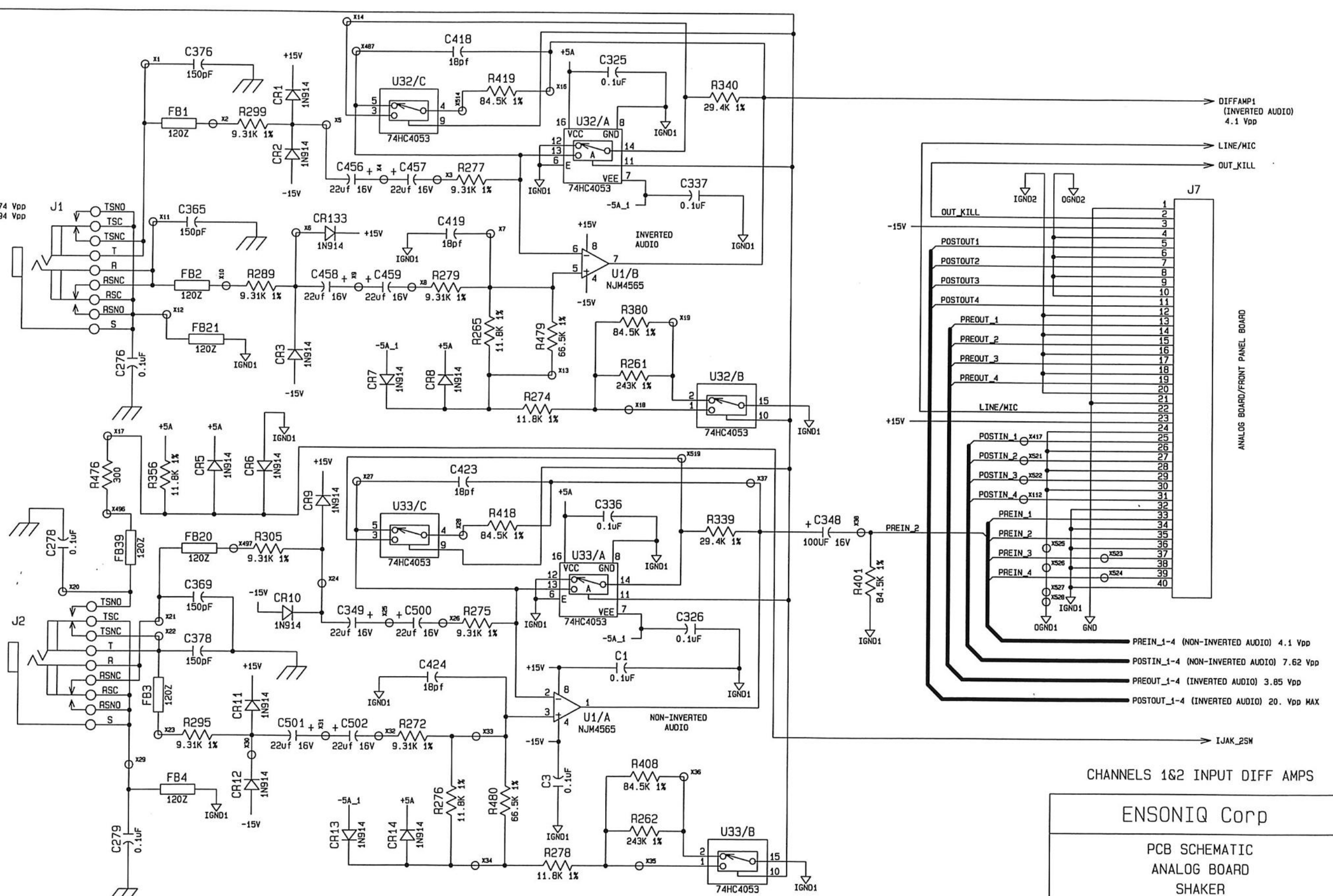
+4/-10

+4.dBu = 3.474 Vpp
-10.dBV = .894 Vpp

1 IN (L/MONO)

STEREO

2 IN (R)



CHANNELS 1&2 INPUT DIFF AMPS

ENSONIQ Corp

PCB SCHEMATIC
ANALOG BOARD
SHAKER

SIZE	DWG. NO.	REV	SHEET	OF
B	4010025101	D	2	13

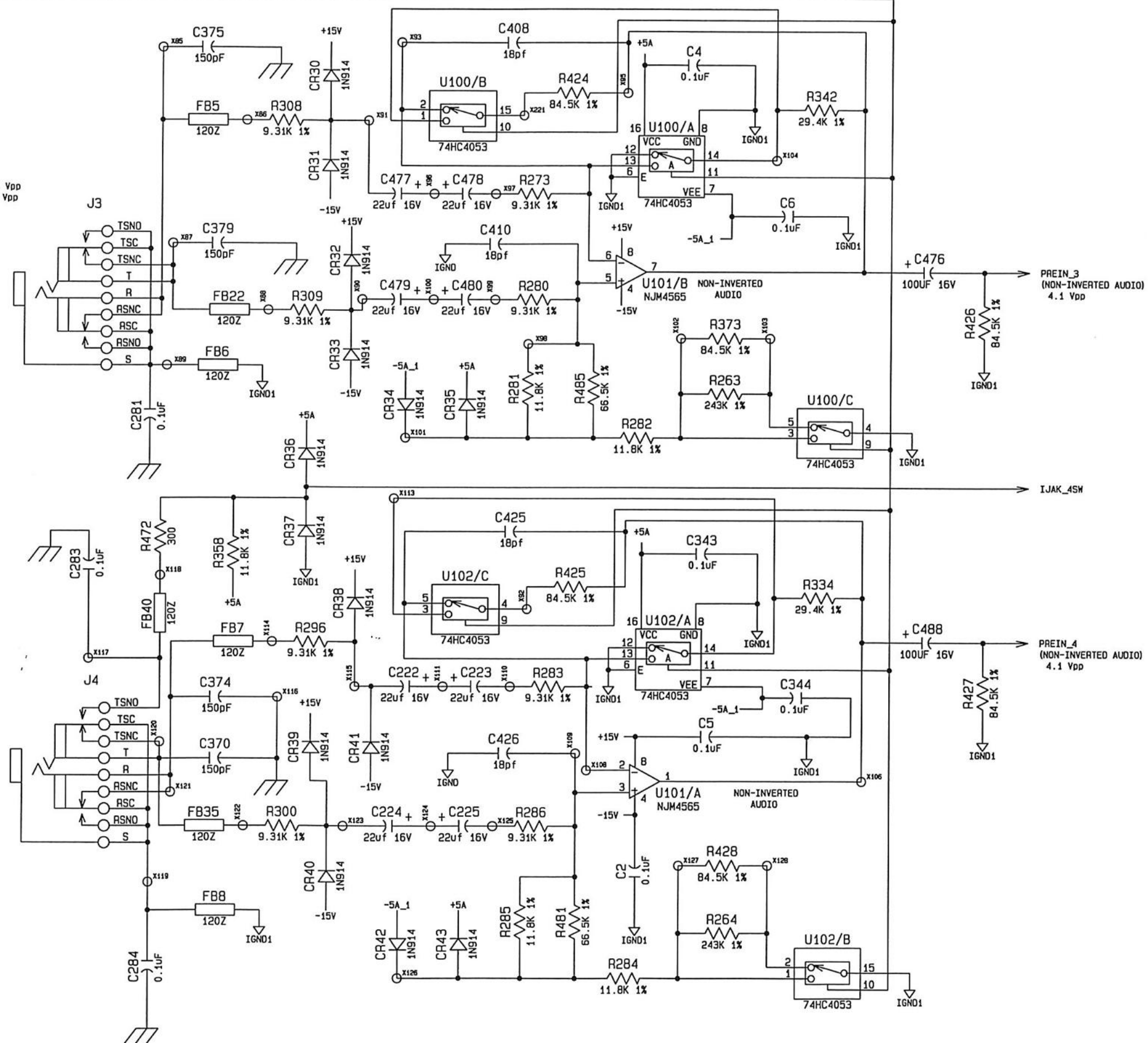
+4/-10

+4. dBu = 3.474 Vpp
-10 dBV = .894 Vpp

3 IN
(L/MONO)

STEREO

4 IN
(R)



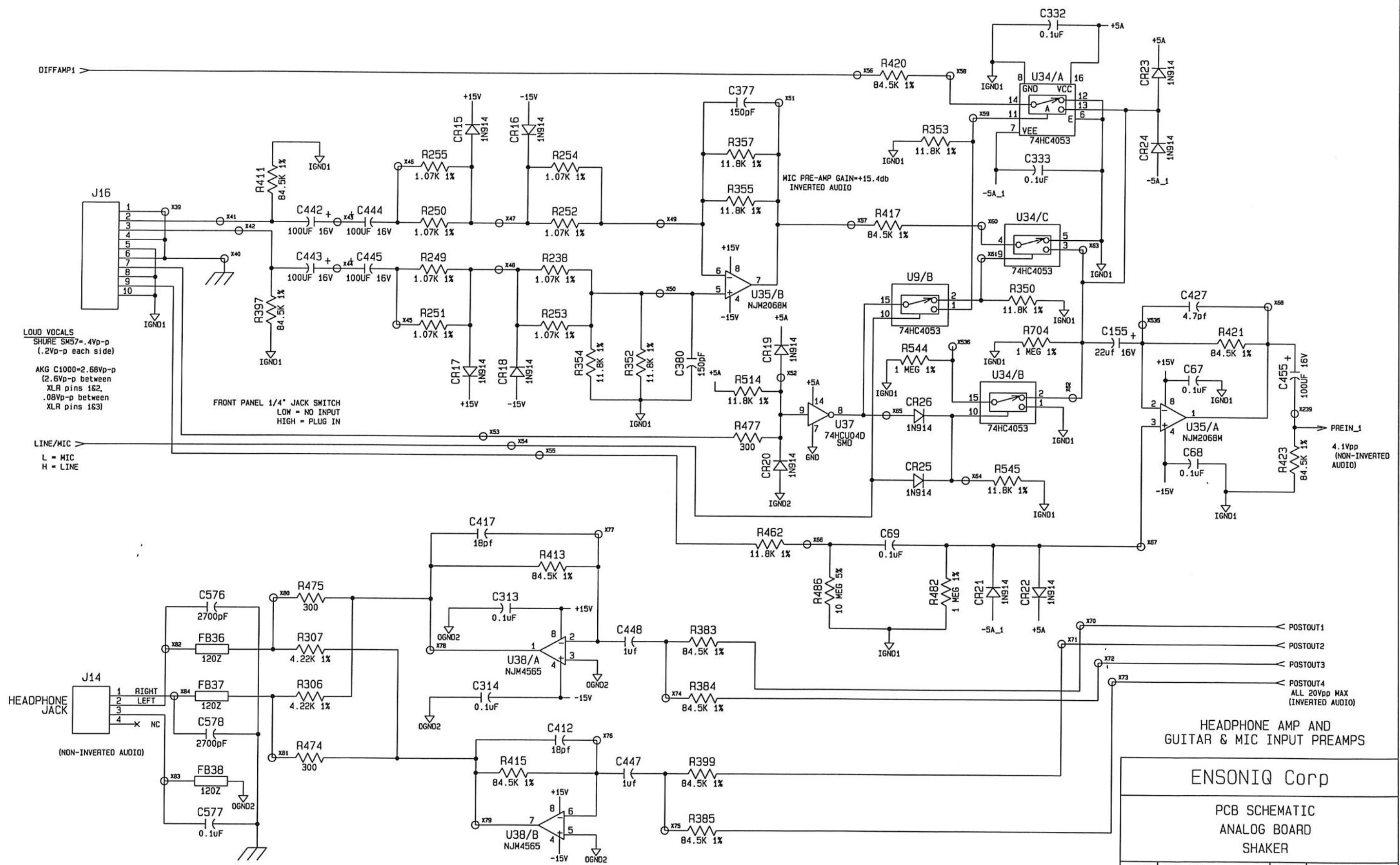
PREIN_3
(NON-INVERTED AUDIO)
4.1 Vpp

IJAK_4SW

PREIN_4
(NON-INVERTED AUDIO)
4.1 Vpp

CHANNELS 1&2 INPUT DIFF AMPS

ENSONIQ Corp				
PCB SCHEMATIC ANALOG BOARD SHAKER				
SIZE	DWG. NO.	REV	SHEET	OF
B	4010025101	D	3	13



LOUD VOCALS
SHURE SM57 = .4Vp-p
(.2Vp-p each side)
AKG C1000 = 2.68Vp-p
(2.6Vp-p between
XLR pins 1&2,
.08Vp-p between
XLR pins 1&3)

FRONT PANEL 1/4" JACK SWITCH
LOW = NO INPUT
HIGH = PLUG IN

LINE/MIC
L = MIC
H = LINE

HEADPHONE JACK
(NON-INVERTED AUDIO)

MIC PRE-AMP GAIN = +15.4db
INVERTED AUDIO

PREIN_1
4.1Vp-p
(NON-INVERTED AUDIO)

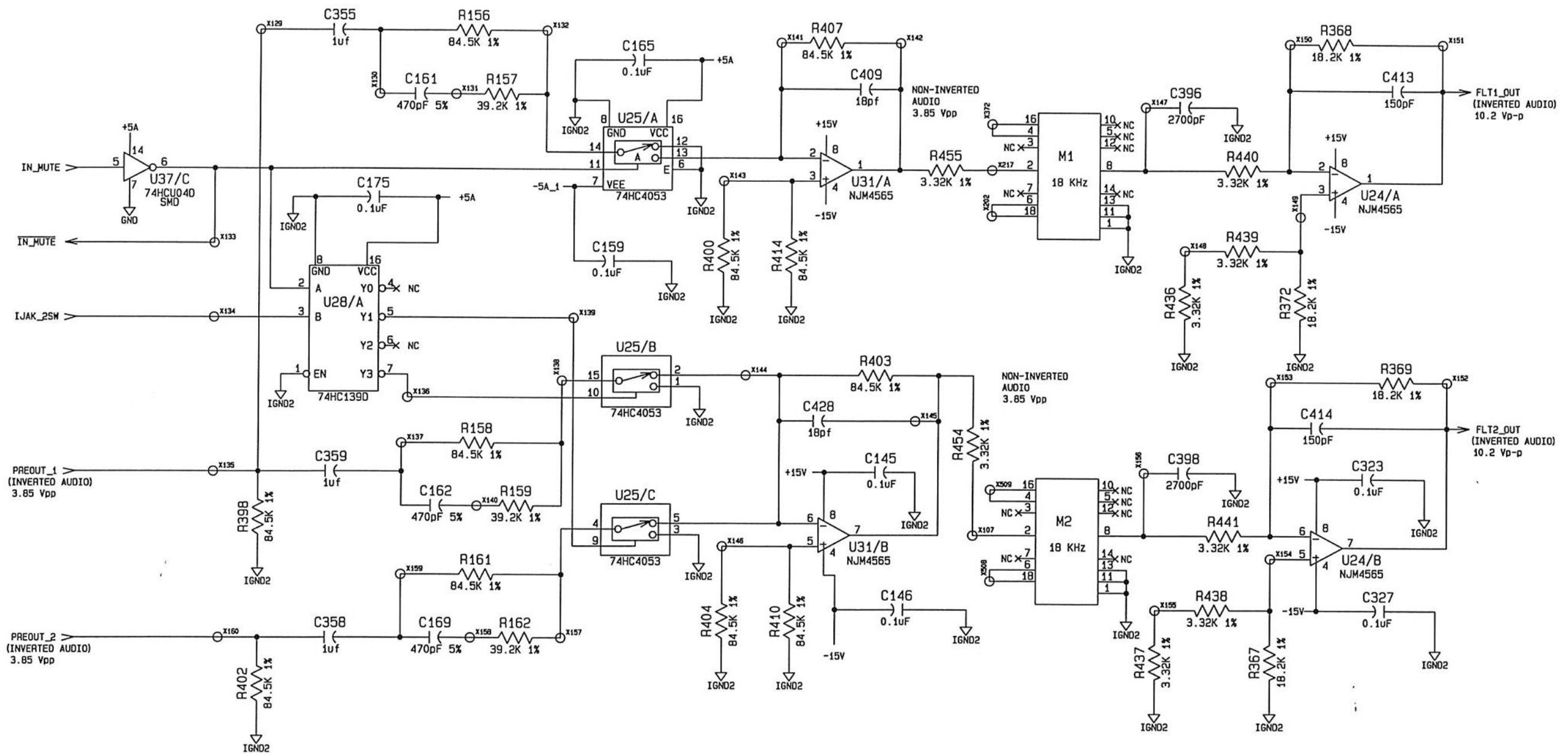
POSTOUT1
POSTOUT2
POSTOUT3
POSTOUT4
ALL 20Vpp MAX
(INVERTED AUDIO)

HEADPHONE AMP AND
GUITAR & MIC INPUT PREAMPS

ENSONIQ Corp

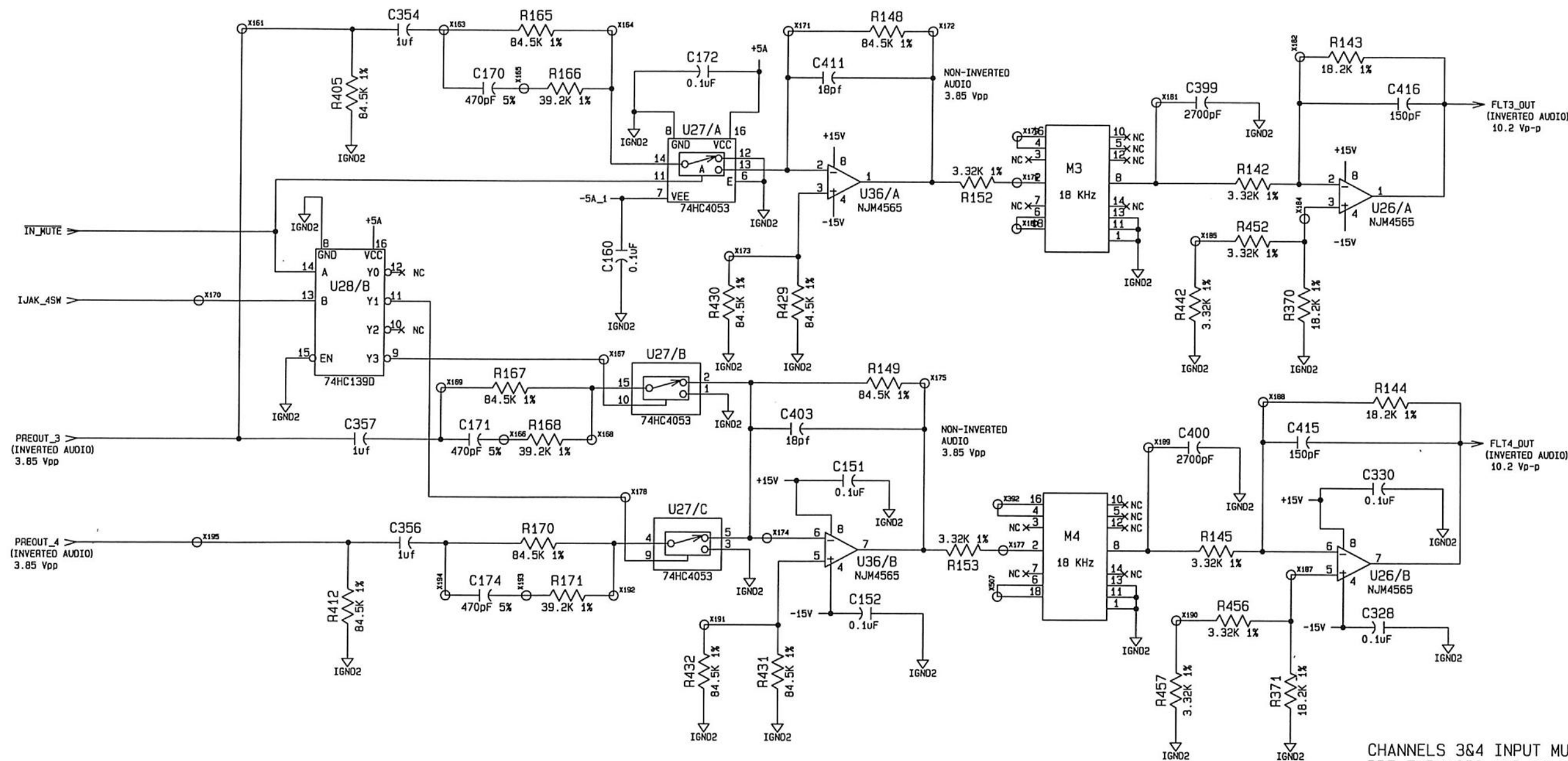
PCB SCHEMATIC
ANALOG BOARD
SHAKER

SIZE	DWG. NO.	REV	SHEET	OF
B	4010025101	D	4	13



CHANNELS 1&2 INPUT MUTING,
PRE-EMPHASIS AND FILTER.

ENSONIQ Corp				
PCB SCHEMATIC ANALOG BOARD SHAKER				
SIZE	DWG. NO.	REV	SHEET	OF
B	4010025101	D	5	13

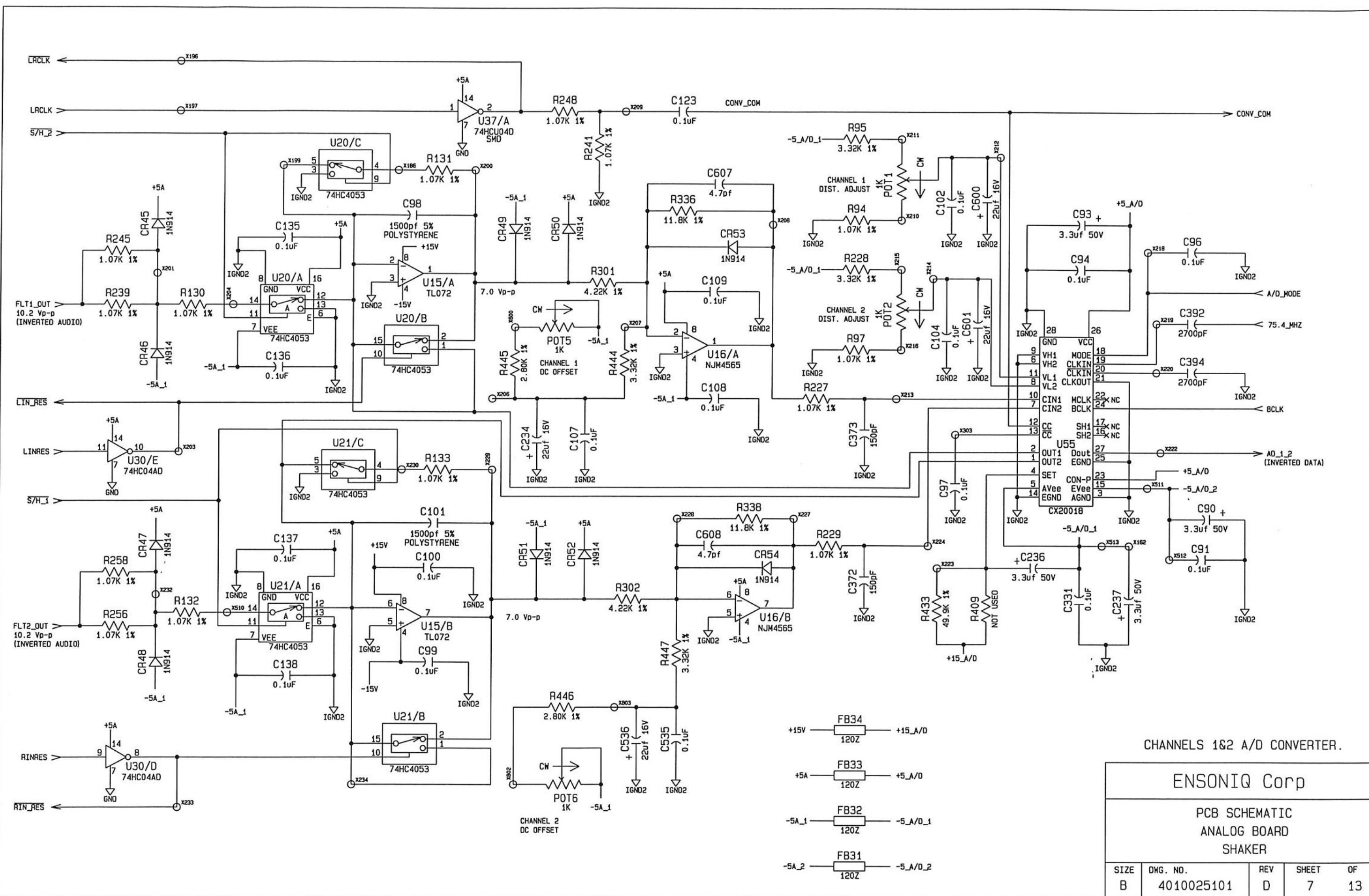


CHANNELS 3&4 INPUT MUTING,
PRE-EMPHASIS AND FILTER.

ENSONIQ Corp

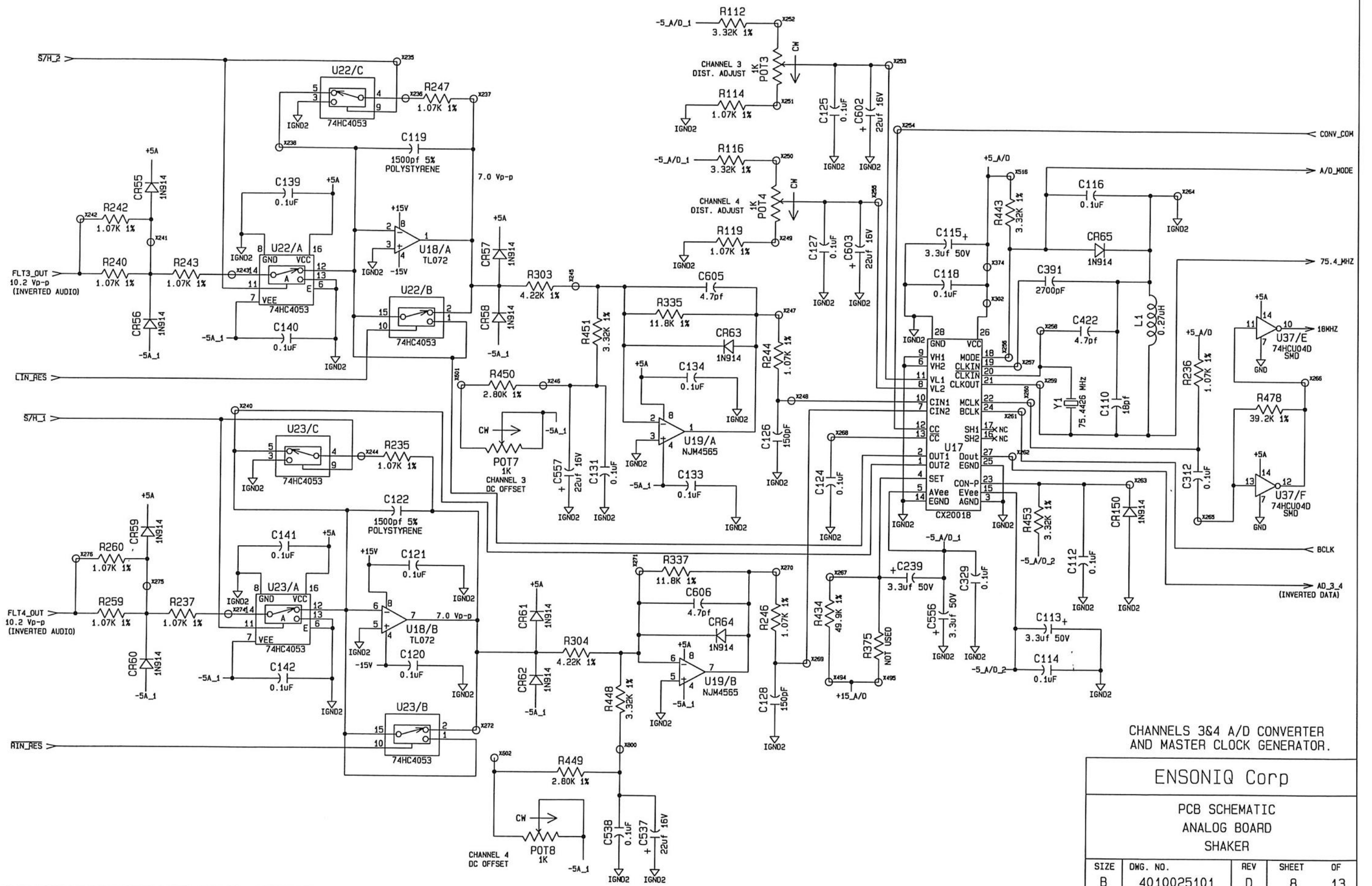
PCB SCHEMATIC
ANALOG BOARD
SHAKER

SIZE	DWG. NO.	REV	SHEET	OF
B	4010025101	D	6	13



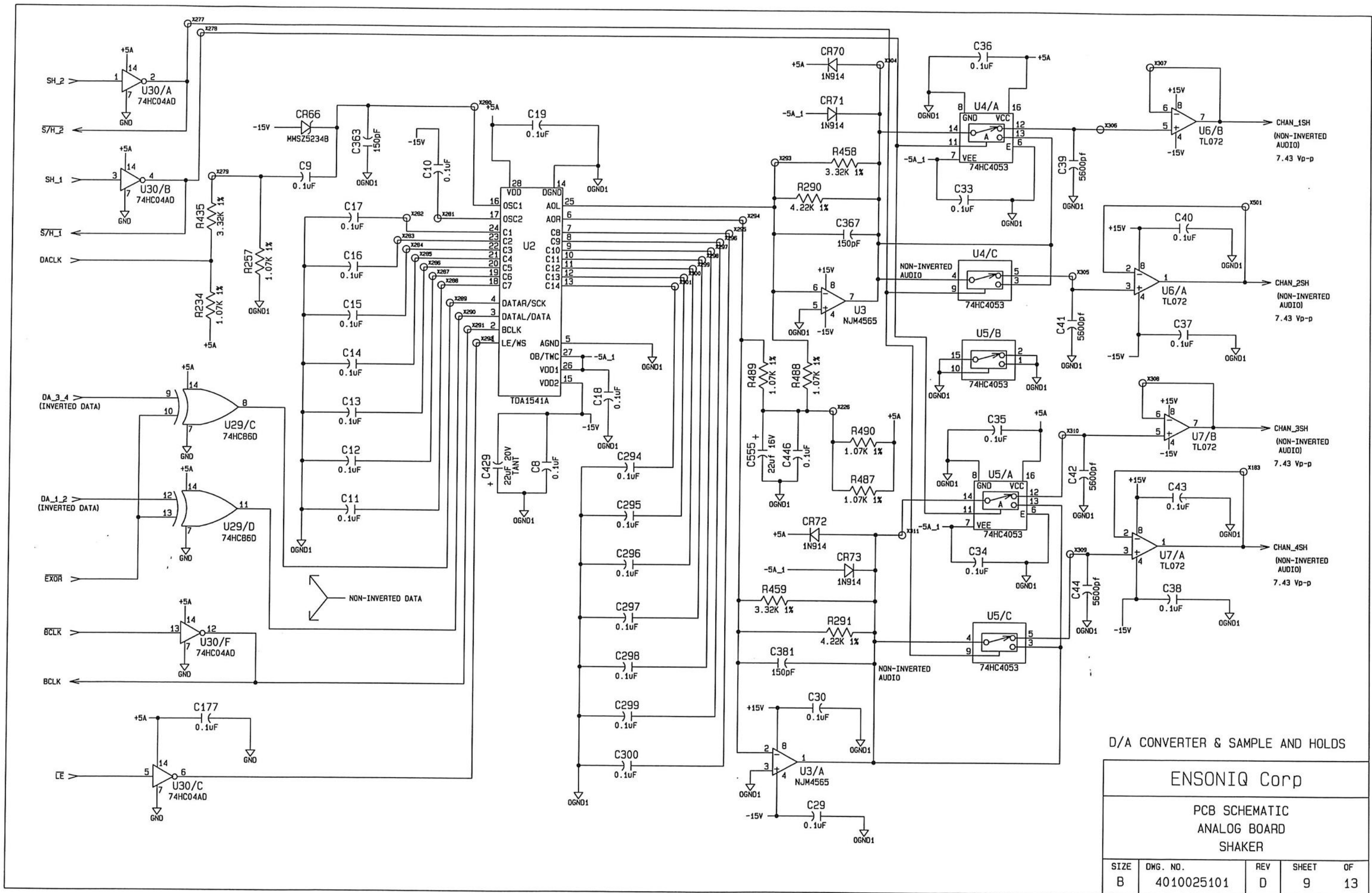
CHANNELS 1&2 A/D CONVERTER.

ENSONIQ Corp				
PCB SCHEMATIC ANALOG BOARD SHAKER				
SIZE	DWG. NO.	REV	SHEET	OF
B	4010025101	D	7	13



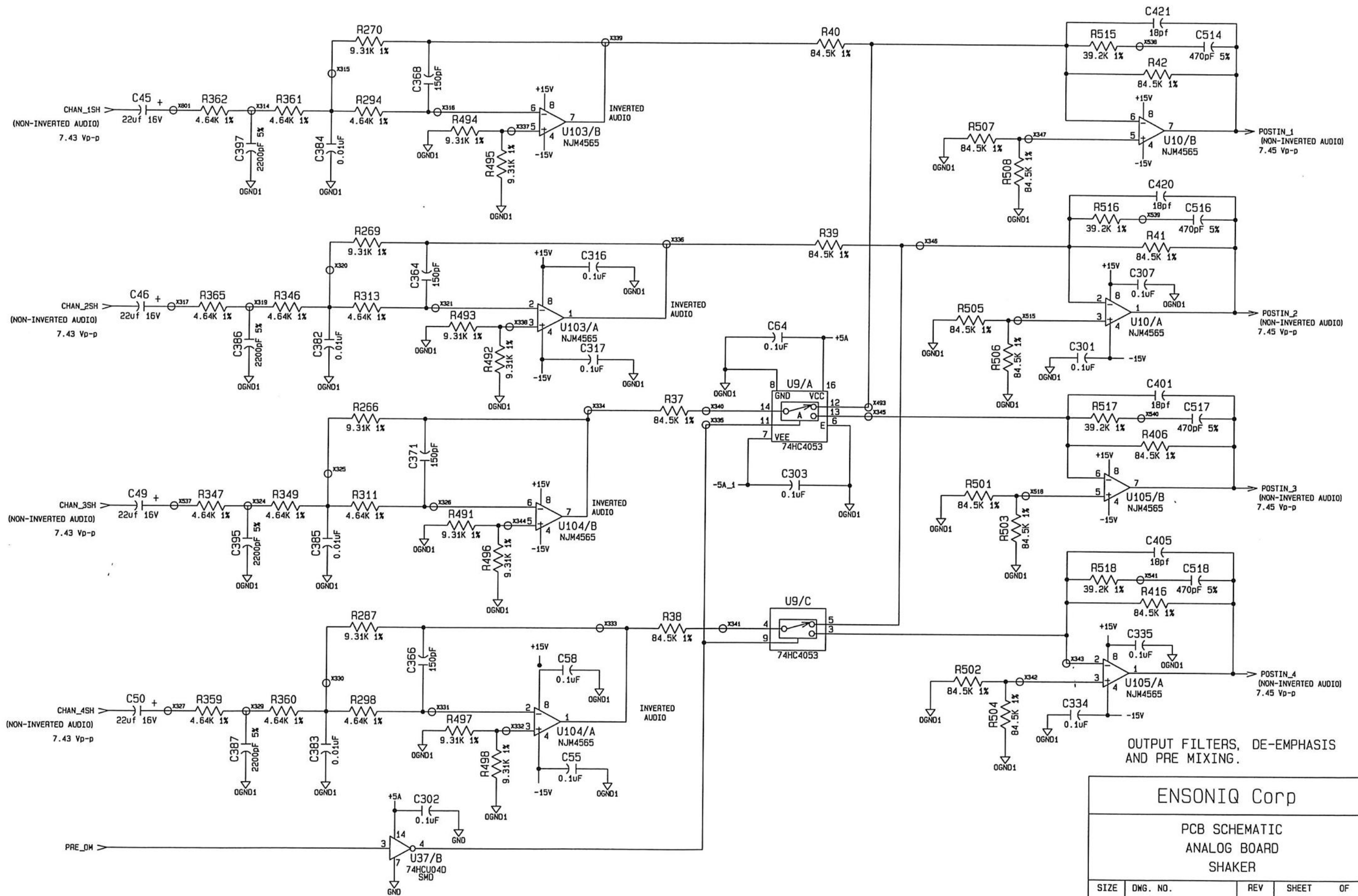
CHANNELS 3&4 A/D CONVERTER AND MASTER CLOCK GENERATOR.

ENSONIQ Corp				
PCB SCHEMATIC				
ANALOG BOARD				
SHAKER				
SIZE	DWG. NO.	REV	SHEET	OF
B	4010025101	D	8	13



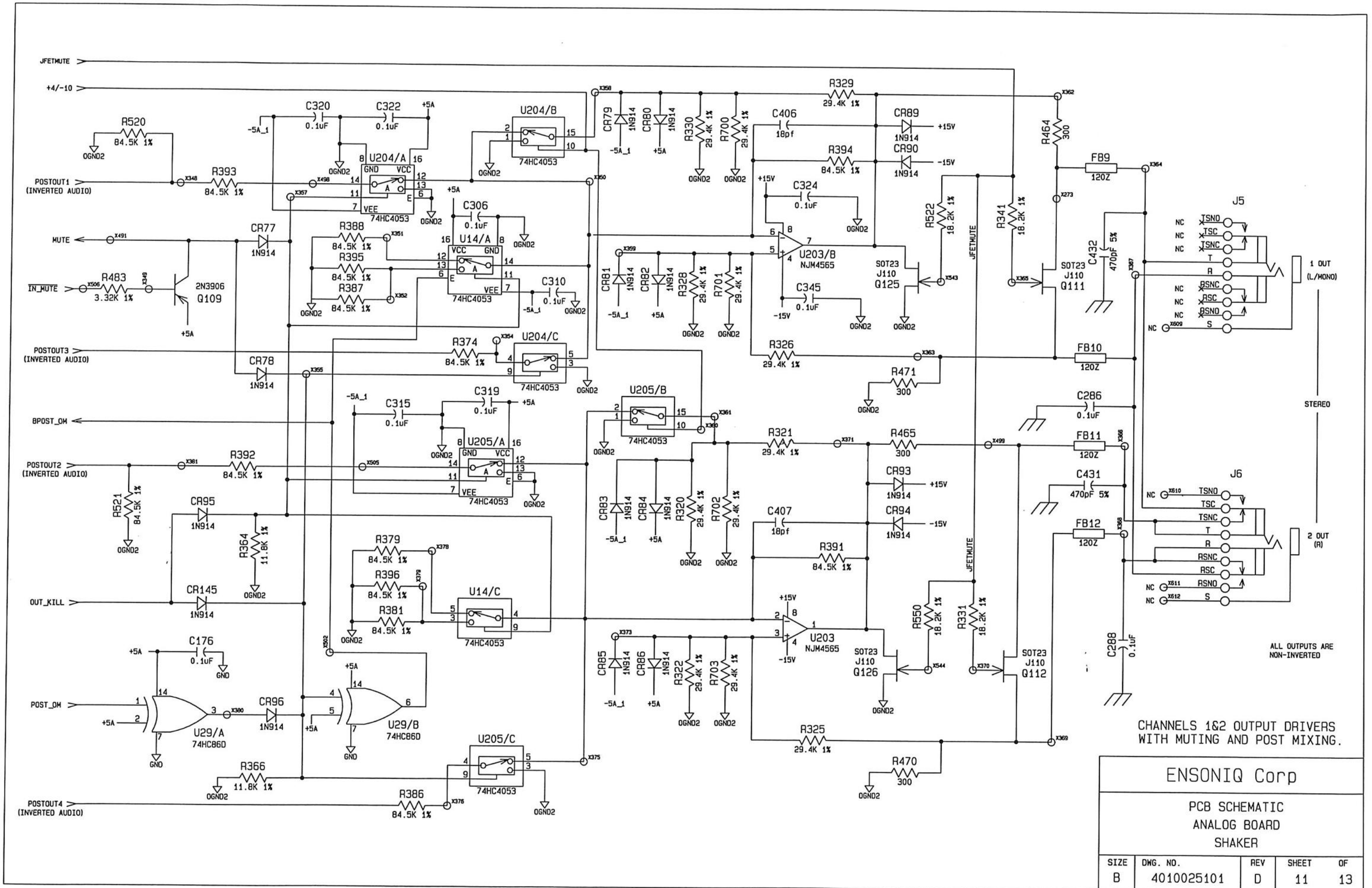
D/A CONVERTER & SAMPLE AND HOLDS

ENSONIQ Corp				
PCB SCHEMATIC ANALOG BOARD SHAKER				
SIZE	DWG. NO.	REV	SHEET	OF
B	4010025101	D	9	13



OUTPUT FILTERS, DE-EMPHASIS AND PRE MIXING.

ENSONIQ Corp				
PCB SCHEMATIC ANALOG BOARD SHAKER				
SIZE	DWG. NO.	REV	SHEET	OF
B	4010025101	D	10	13

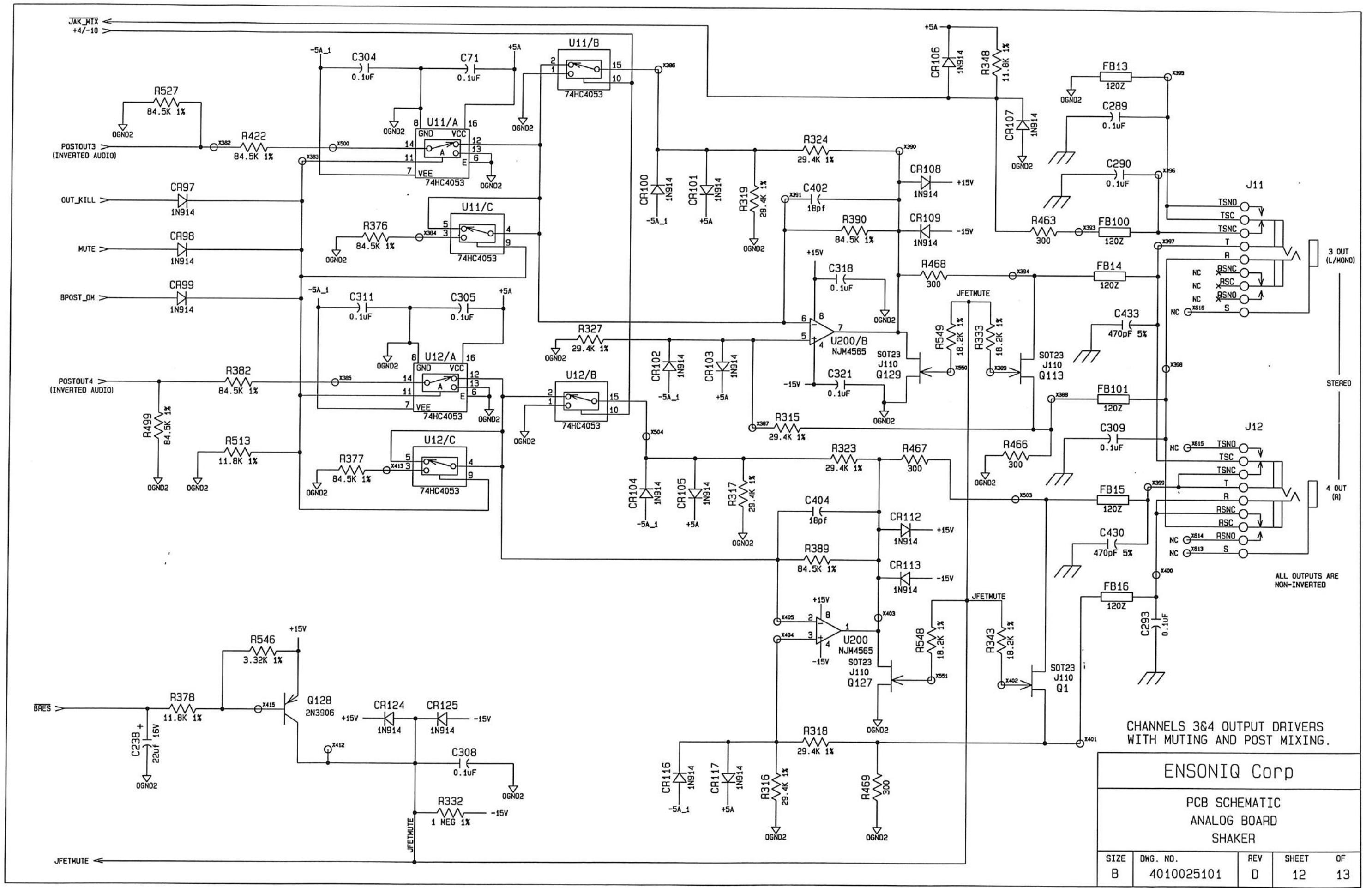


CHANNELS 1&2 OUTPUT DRIVERS WITH MUTING AND POST MIXING.

ENSONIQ Corp

PCB SCHEMATIC
ANALOG BOARD
SHAKER

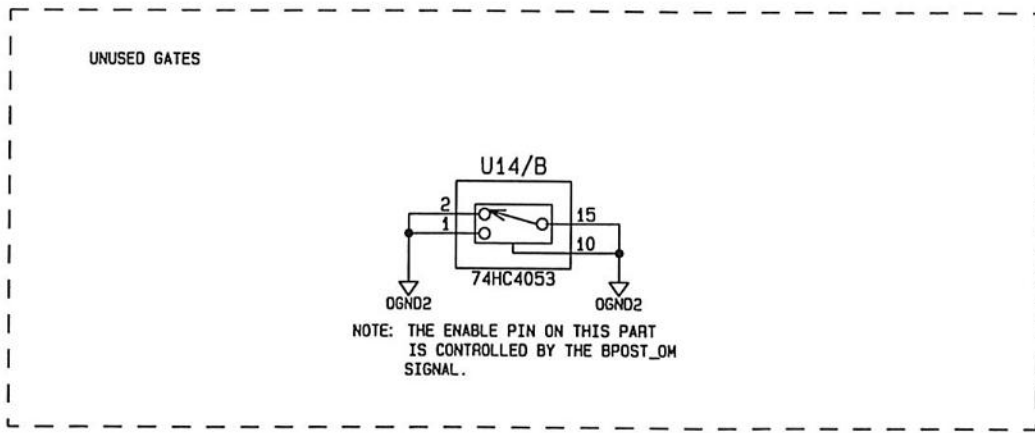
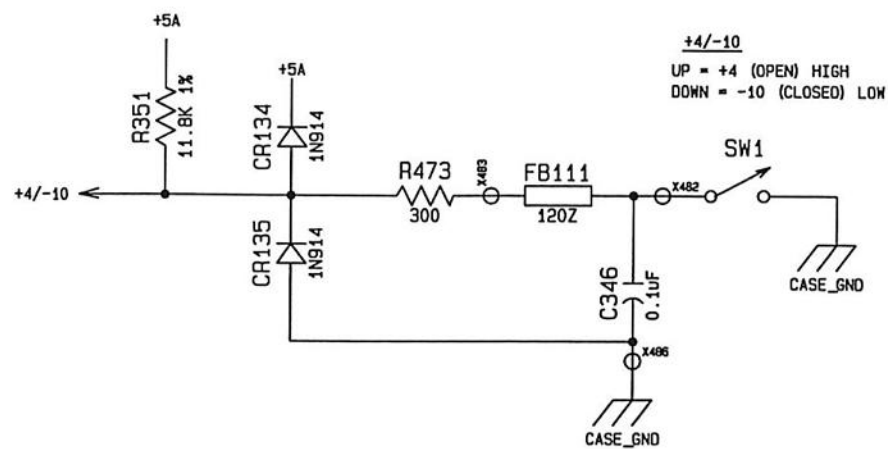
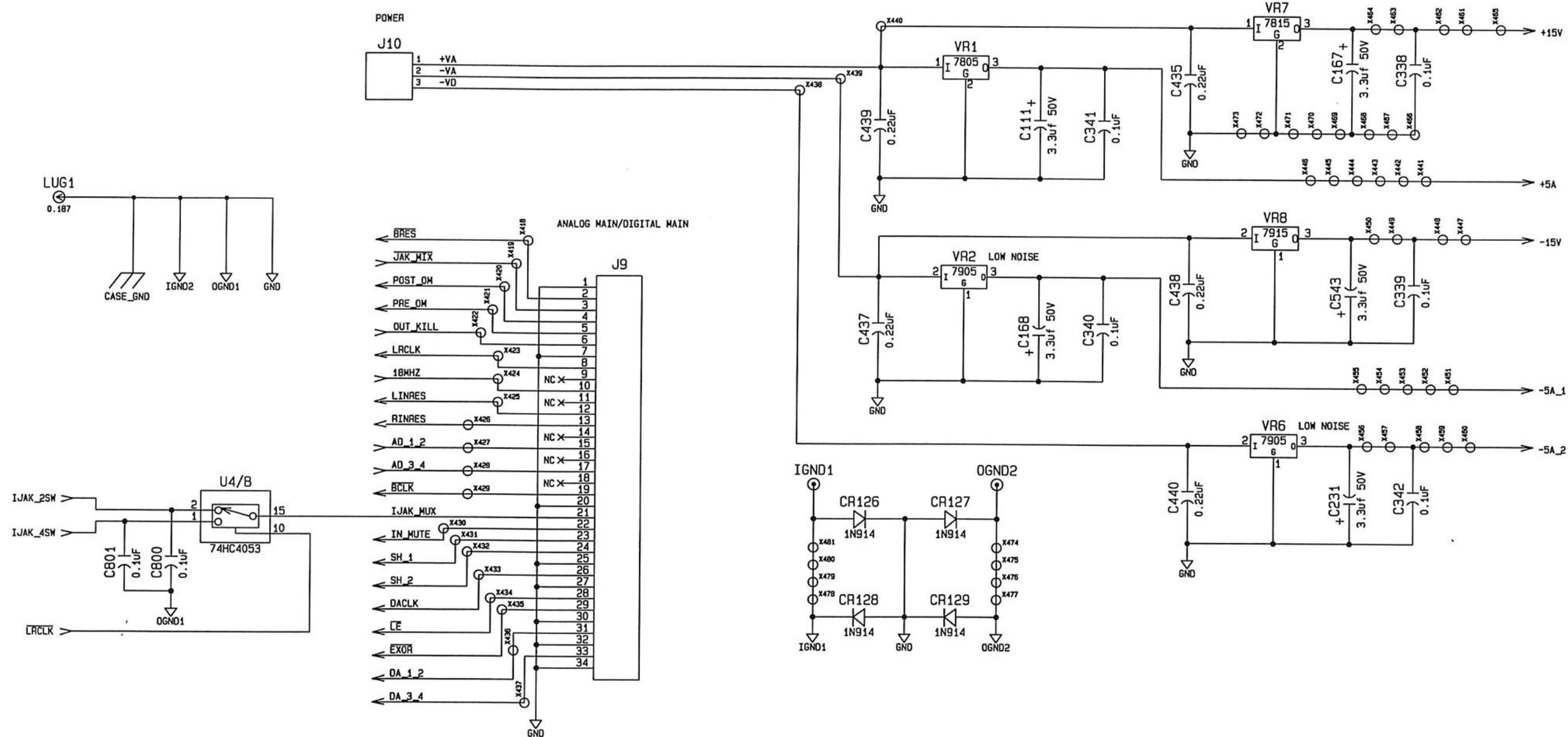
SIZE	DWG. NO.	REV	SHEET	OF
B	4010025101	D	11	13



ALL OUTPUTS ARE NON-INVERTED

CHANNELS 3&4 OUTPUT DRIVERS WITH MUTING AND POST MIXING.

ENSONIQ Corp				
PCB SCHEMATIC ANALOG BOARD SHAKER				
SIZE	DWG. NO.	REV	SHEET	OF
B	4010025101	D	12	13



VOLAGE REGULATORS, +4/-10 SWITCH AND OFF BOARD CONNECTORS.

ENSONIQ Corp				
PCB SCHEMATIC ANALOG BOARD SHAKER				
SIZE	DWG. NO.	REV	SHEET	OF
B	4010025101	D	13	13