

# **SOUNDTRACS** PLC

**TOPAZ MAXI 24 - 4 - 2 MIXER**

**TOPAZ MAXI 32 - 4 - 2 MIXER**

**TECHNICAL INFORMATION**

Issue B Sept. 95

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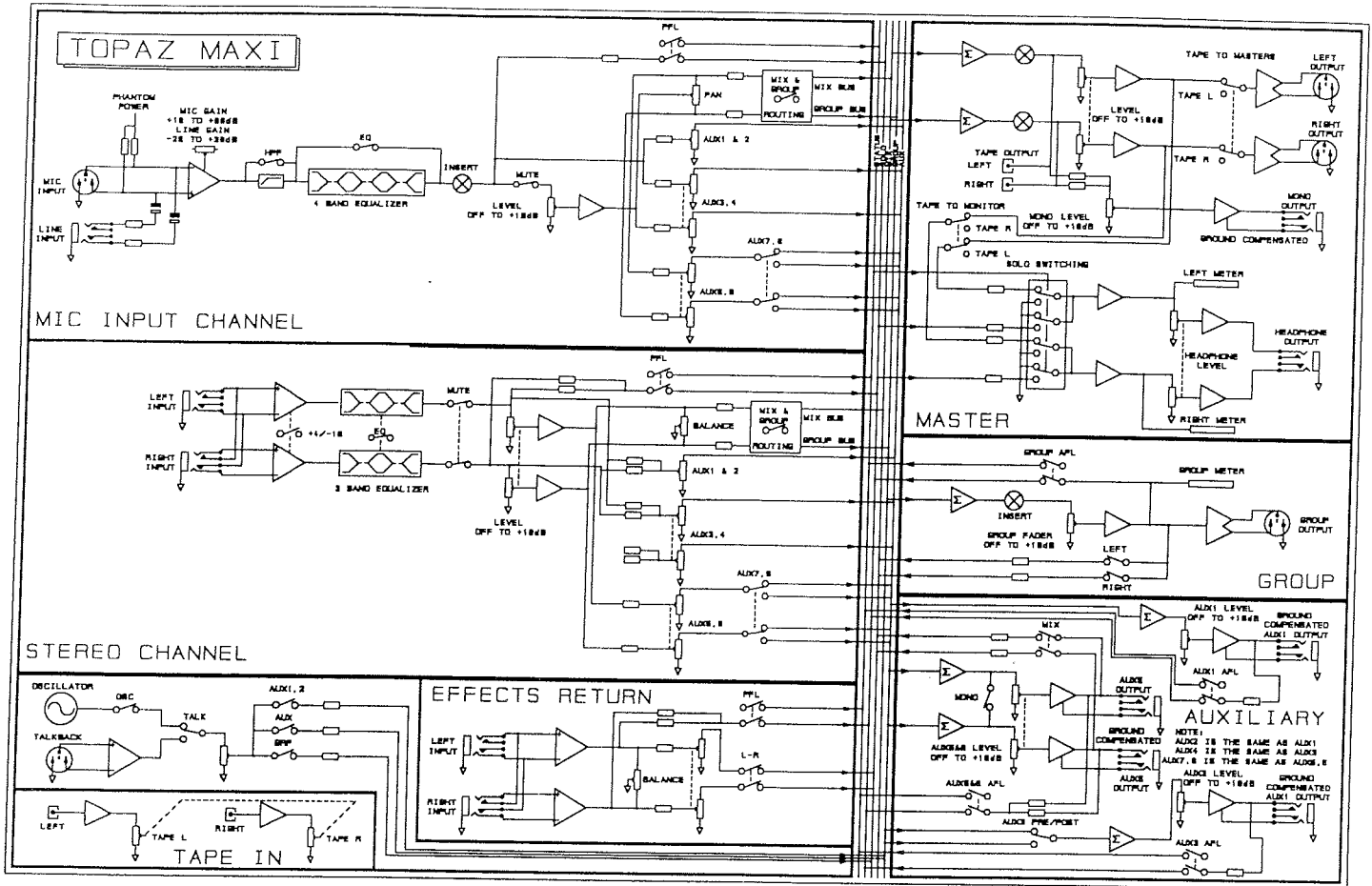
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# ① Technical Information



## Specifications

### INPUT & OUTPUT IMPEDANCES

Microphone Inputs	1k2 ohms
Line Inputs	>20k ohms
Outputs	<70 ohms

### OUTPUT LEVELS

Master Outputs (Balanced)	+26dBu
Aux Outputs (Ground Comp)	+21dBu
Headphones (per side)	140mW into 600 ohms

### FREQUENCY RESPONSE

Channel	20Hz - 30kHz ±1dB
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### E.I.N.

Source 150ohms	-128dBu
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### MIX NOISE (Master Fader at 0dB)

Input Faders Down (24 Ch)	<-86dB
Input Faders Down (32 Ch)	<-84dB

### DISTORTION

Line	<0.007% at 1kHz
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### AUX NOISE

Input Sends Down (24 Ch)	<-86dBu
Input Sends Down (32 Ch)	<-84dBu

### SIGNAL CROSSTALK (1kHz)

Input Fader Attenuation	>95dB
Aux Send Attenuation	>90dB
Adjacent Channel	>85dB
Stereo Channel Separation	>75dB

### DIMENSIONS

24 Ch Weight (Unpacked)	25Kgs
24 Ch Width	980mm
32 Ch Weight (Unpacked)	30Kgs
32 Ch Width	1218mm
24 & 32 Height at Front	60mm
24 & 32 Height at Rear	120mm
24 & 32 Overall Depth	712mm
24 & 32 Overall Height	125mm

## SUB AND FINAL ASSEMBLY PARTS LISTS FOR SOUNDTRACS PRODUCTS

## INTRODUCTION

Soundtracs parts lists are printed according to the stages of assembly of the final product. Parts lists included in user manuals normally refer to the initial printed circuit board construction and correspond to the schematic circuit diagrams to aid in fault diagnostics during repairs.

In order to find part numbers for items used later in the construction of a product the relevant parts list must be consulted.

## PARTS LISTS

In general the following applies to the reference number which are given to the various groups of lists:

Complete PCB's begin P

This will show resistors, IC's etc. PCB part lists may be further sub divided with a "VCD" part number. This is a list of small components fitted by the automatic insertion machine.

Module assemblies begin MOD-

This will show knobs, panels, fixing screws etc. The

MOD- prefix also refers to the complete electronics assembly of a single plate mixer such as Solo or Topaz. \*

Chassis/frame assemblies begin FRM-

This will show the parts of large separate mechanical housings used on larger mixers such as Jade. (There are no FRM- lists for Solo, for example) \*

Final assembly begins X-

This shows rear panels, end cheek mouldings, accessory cables etc. This will also include packing materials etc.

EXAMPLE: Topaz 24 in line recording mixer:

Input PCB component parts are listed under P-12979

Knobs are listed under MOD-TPZ-REC24

End cheeks are listed under X-TPZ-REC24

\* For Topaz Mini, Macro, Macro+ and Maxi, these are reversed i.e. MOD- is the completed assembly and FRM is the assembled front panel with PCB's.

## PCB Suffix Codes

On all recent Soundtracs PCB's the number shown will be in the form of P12345/01 ISS A.

The P code will be the same as the drawing number which begins S. e.g. S12345. If there several pages these will be S12345A, S12345B etc. but all refer to 1 PCB.

The suffix /01, /02 etc. which is seen on the PCB refers to the "layer" of the PCB e.g.. component side copper, solder mask etc. The most common code seen is /01 which is copper layout on the non component side and /05 which is the component ident printing on the component side. The issue version maybe relevant and is the "ISS A" adjacent to the P12345 and NOT the hand written ISSUE elsewhere on the PCB (this is the component kit issue).

## CONFIRMATION OF PERFORMANCE FOR SOUNDTRACS MIXERS

### INTRODUCTION

The following is a condensed version of test procedures for checking Soundtracs consoles to original factory published specifications. Refer to the figures given in product user manual or brochure when performing the following tests.

Any tests should be carried out with the mixer operated in isolation with NO external equipment connected except the measurement instrument. (monitor using headphones or battery powered loudspeakers if required).

The correct use and setup of audio measurement systems is an art in itself and a failure of an otherwise fault free mixer to meet specifications is invariably due to incorrect setup or procedure. Please contact the factory for further advice on our procedures and your test system supplier for advice on the optimum use of your test system.

01/96

### DISTORTION

1. Set the fader on the channel to be tested to "0" i.e., 10 dB below the top of fader movement and route the channel to the left output. Make sure no other channels are routed to the left output (if the mixer has no routing switches, the published specification allows for this) and that all other faders, monitors and effects returns are turned down.
2. Set the master faders to zero. (This is 10dB below the top of the fader movement on some mixers).
3. Connect a low distortion signal generator to the line input of a channel, and set to give +10dBu on the Left output.
4. Measure distortion at the left output of the console. The Distortion meter should be average responding and have a LP filter at 80kHz.

### ADJACENT CHANNEL CROSSTALK

1. Input a reference + 4 dBu sine wave to the line input of one channel. Set the fader on the channel to 0 (10 dB below max.), route the channel to L/R and set the pan to centre.
2. Connect audio level meter to the line output of an adjacent channel. The meter should be average responding, with 22Hz -22kHz bandwidth. Set the fader on the second channel to 0, route the channel to L/R and set the pan to centre.
3. Connect a 150 Ohm resistor to the line input of the second channel , set the gain to zero and select line in.
4. Take two readings from the meter, one at 1kHz and one at 10kHz.
5. Where there is no line output from an adjacent channel, DO NOT pan one channel left, the other right and measure the left - right difference. This is NOT channel separation (and is NOT the stereo separation either!). This gives the pan control performance which is limited by the pan control pots, usually to about 65 dB.

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### MIX NOISE

1. Set Master L & R faders or other outputs (e.g. groups or Aux.'s) to be measured to "0" . (This is 10dB below the top of the fader movement on some mixers).
2. Set all channel faders and monitor pots (if fitted) to the bottom of their movement (no output from channel). This ensures we are looking at only the mix noise and not any contributed from channels themselves.
3. Set all pan controls to the centre position.
4. Route the required number of channels to MIX / L-R or other output as required. This is indicated in the brochure. i.e. If the brochure states 32 inputs routed then 32 inputs must be routed. This could be 24 monitors and 8 effects returns, 16 channels and 16 monitors, etc. Remember to include any FX returns etc. that are permanently selected. Note that all Aux sends are usually all routed at all times.
5. Connect test instrument to either L or R master output or other output of interest.
6. Set instrument to measure amplitude, average detector, 22Hz - 22kHz bandwidth, unweighted. 0 dBr = +4 dBu (0 dBu = 775mV). (Using RMS will make the reading about 1 dB worse).
7. Switch ground lift switch on PSU to ensure you do not have ground loops in your test set-up. Noise should be as per our published figures (usually around -80dBr) or better. If it is worse, look at this with an oscilloscope or better, a spectrum analyser to determine what it is that you can hear. This often turns out to be hum, either due to bad earthing or induction.

Soundtracs use Audio Precision instruments to obtain the published results but any regular Audio mV meter should work.

### MICROPHONE EQUIVALENT INPUT NOISE

If you are comparing a Soundtracs with a different mixer, be careful not to be deceived by different gain structures (in particular the +10dB gain in the mix master faders which if pushed to the top will show 10dB "extra" noise).

1. Un-route all channels groups and returns except channel under test. Route this to MIX / L-R. (if the mixer has no routing switches, the published specification allows for this)
2. Set channel fader to "0" i.e.. 10 dB below the top of fader movement.
3. Set Master L faders to "0" as per mix noise, above.
4. Input -60dB sine wave reference level signal to the channel under test, pan full left.
5. Set channel gain to maximum and measure L mix output, this shows the channel gain.
6. Disconnect input signal and replace with 150ohm dummy load.
7. Measure output noise on left master output with the same set up as for mix noise.
8. Channel noise is gain + measured noise e.g.: -60dBr gain and -69dBr noise gives -129dBr noise for the mic input.



## SOUNDTRACS POTENTIOMETER DECODER

Revised 30th April 96

Because of the huge number of pots in use we use a number based system. Whilst circuit diagrams show most component values, the pots are called up by their part number. This "decoder" is to give service engineers a handy reference as to what the value and type these pots are. In addition, some other useful information follows.

### Linear, Logarithmic and Reverse- or Anti-Log law & Values in Ohms

In general pots are marked with the value e.g. 10K and a letter giving the law.

There are however 2 different sets of codes.

Japanese manufacturers (notably Alps) use a different code from European types

A = Log (i.e. = audio)    B = Linear    C = RLog

Pots are either marked in simple 10K (=10,000 ohm) form or the more recent style (as used on many capacitors) showing the number of zero's e.g. 10K = 103 (10 followed by 3 zero's)

In general the part number defines the type for a particular application.

POT000104	22K RLOG	POT000106	5K RLOG (use POT000147)
POT000107	10K LIN CD	POT000108	50K LOG
POT000109	100K+100K RLOG	POT000110	10K+10K LIN CD
POT000111	50K+50K LOG	POT000112	use POT000114
POT000113	10K LOG STEREO FDR	POT000114	10K LOG side pcb FDR
POT000115	use POT000123	POT000116	10K LOG CD
POT000117	2X100K RLOG	POT000118	2X100K LOG
POT000119	10K LOG	POT000120	2X10K LIN CD
POT000121	2X10K LOG	POT000122	10K LOG FDR
POT000123	2X20K RLOG	POT000124	4X100K RLOG
POT000125	10K LOG FDR 60mm	POT000126	10K LOG FDR 60mm
POT000127	2X10K LOG	POT000129	4X 100K RLOG
POT000131	MOTOR FDR 10K LOG	POT000132	10K STER FDR
POT000133	MOTOR 10K LOG FDR	POT000134	use POT000121
POT000135	10K LOG FDR	POT000136	10K LOG FDR
POT000137	10K STEREO FDR	POT000138	10K MONO FDR
POT000139	5K RLOG (use POT0147)	POT000140	10K LIN CD (use POT0107)
POT000141	50K LOG (use POT0108)	POT000142	10K STEREO FDR
POT000143	10K MONO FDR	POT000144	10K STEREO FDR
POT000145	10K MONO 60mm FDR	POT000146	10K STEREO 60mm FDR
POT000147	5K D (special)	POT000148	10K MONO FDR
POT000149	10K STEREO FDR	POT000150	10K STEREO FDR 60mm
POT000151	10K MONO FDR 60mm		

### Notes on listing

2x = dual (stereo)    + = dual concentric

CD = Centre detent (e.g. panpots)

FDR = fader

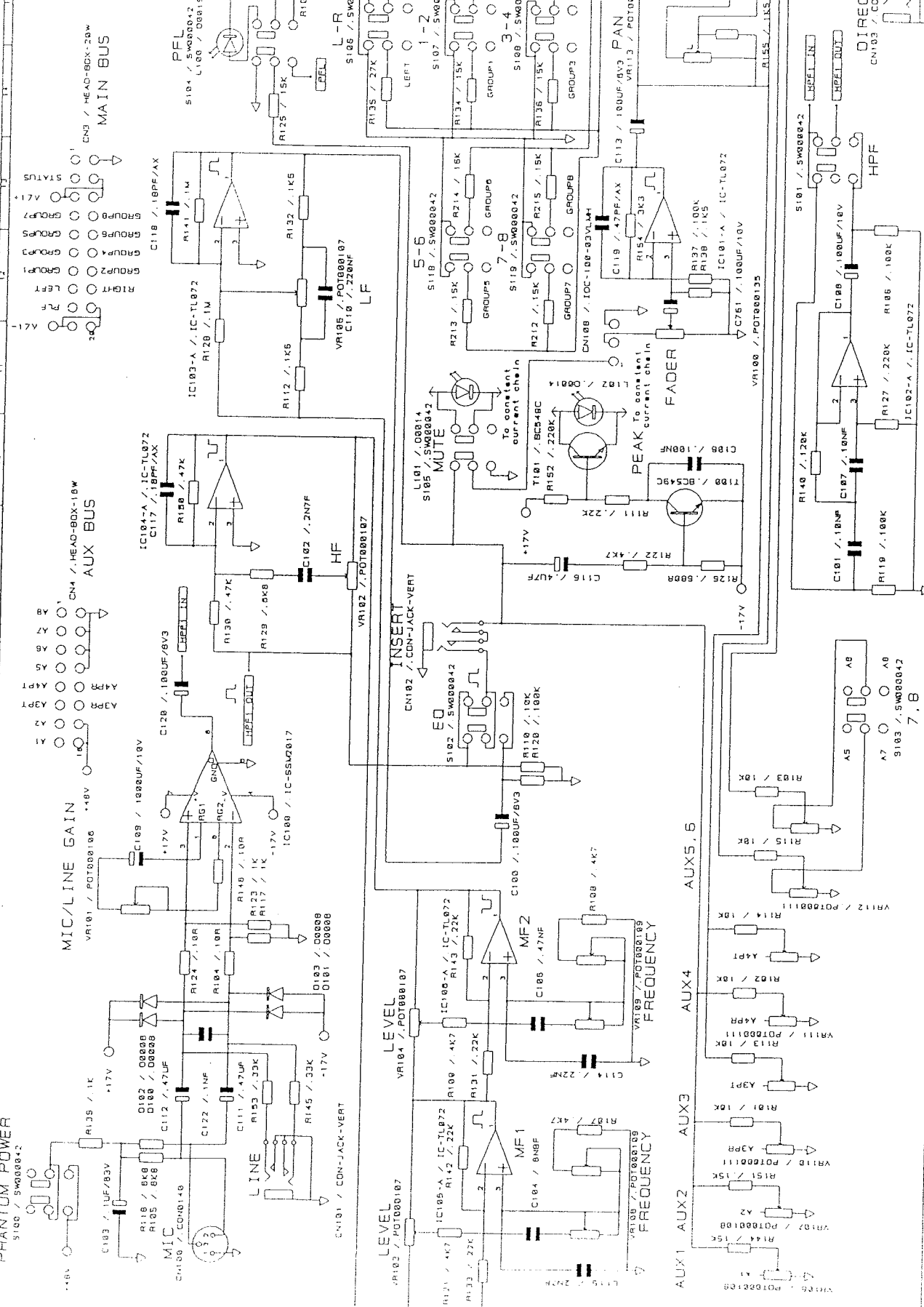
K = 1000's of ohms    LIN = linear,

LOG = audio,    RLOG = Reverse (or anti) Log

use.... = pot has been replaced new type

6

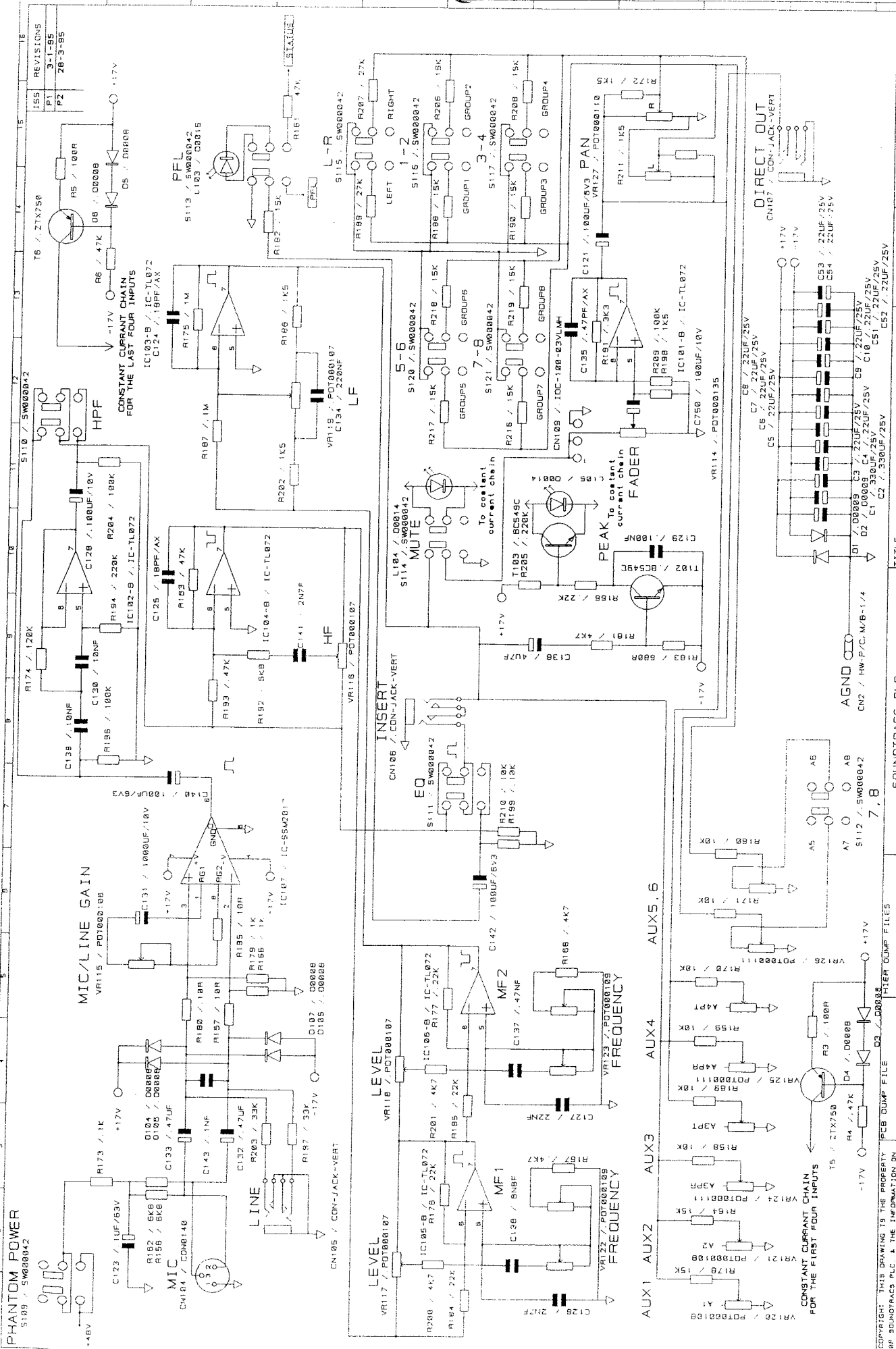
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P1	3-1-85
P2	29-3-95



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PCB DUMP FILE	7. B	DRAWING NO.	ISSUE
CIRCUIT DUMP FILE	TOPAZ MAXI	S13334A	P2



7



155	REVISIONS	
154	P1	3-1-95
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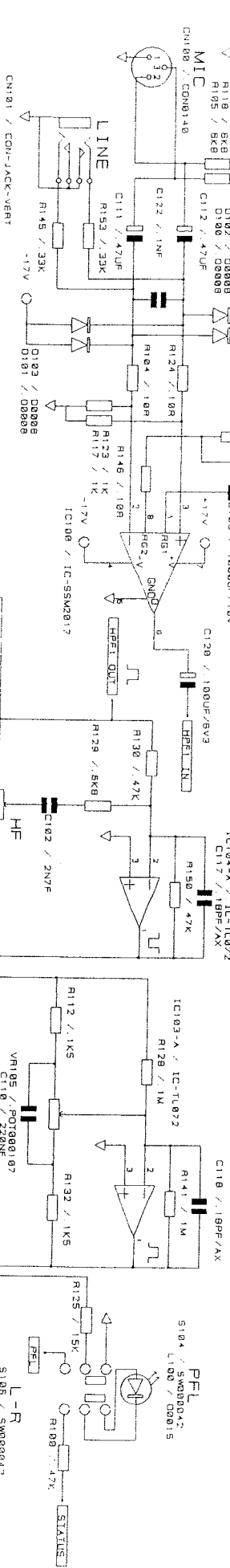
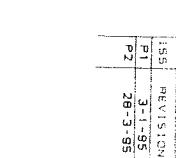
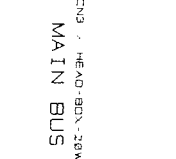
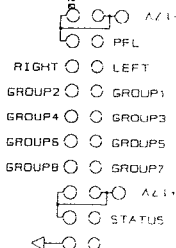
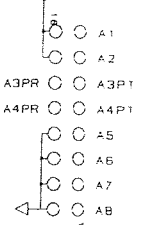
  

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DRAWN		CHECKED	APPRO
ISSUE			P2

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**PHANTOM POWER**  
S100 / SW000042

**MIC/LINE GAIN**



**INSERT**



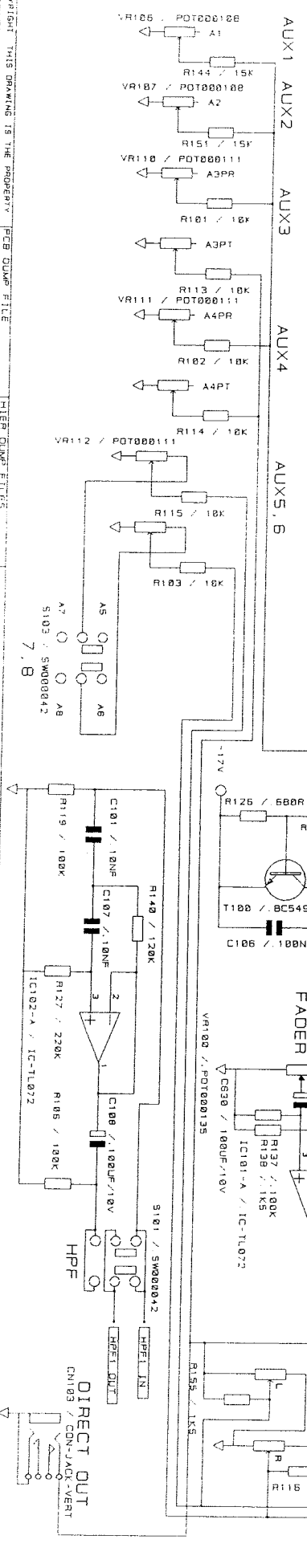
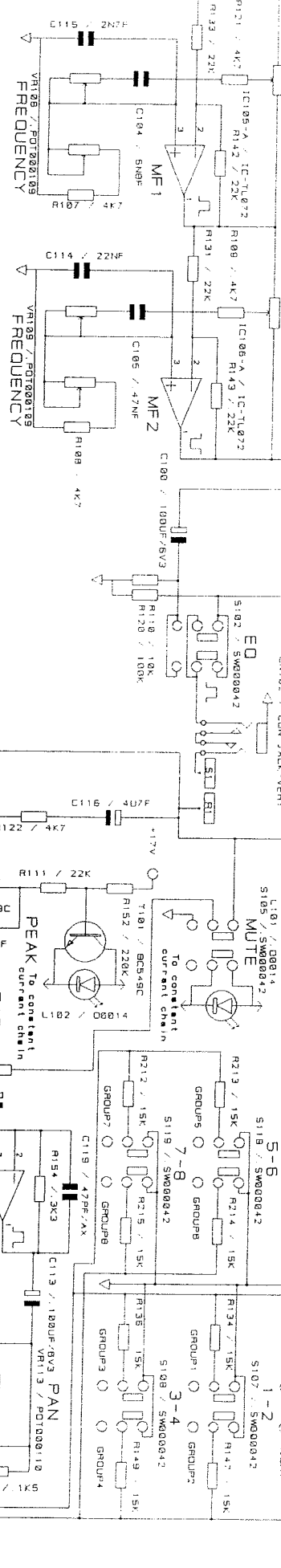
**MUTE**



**FADER**



**PAN**



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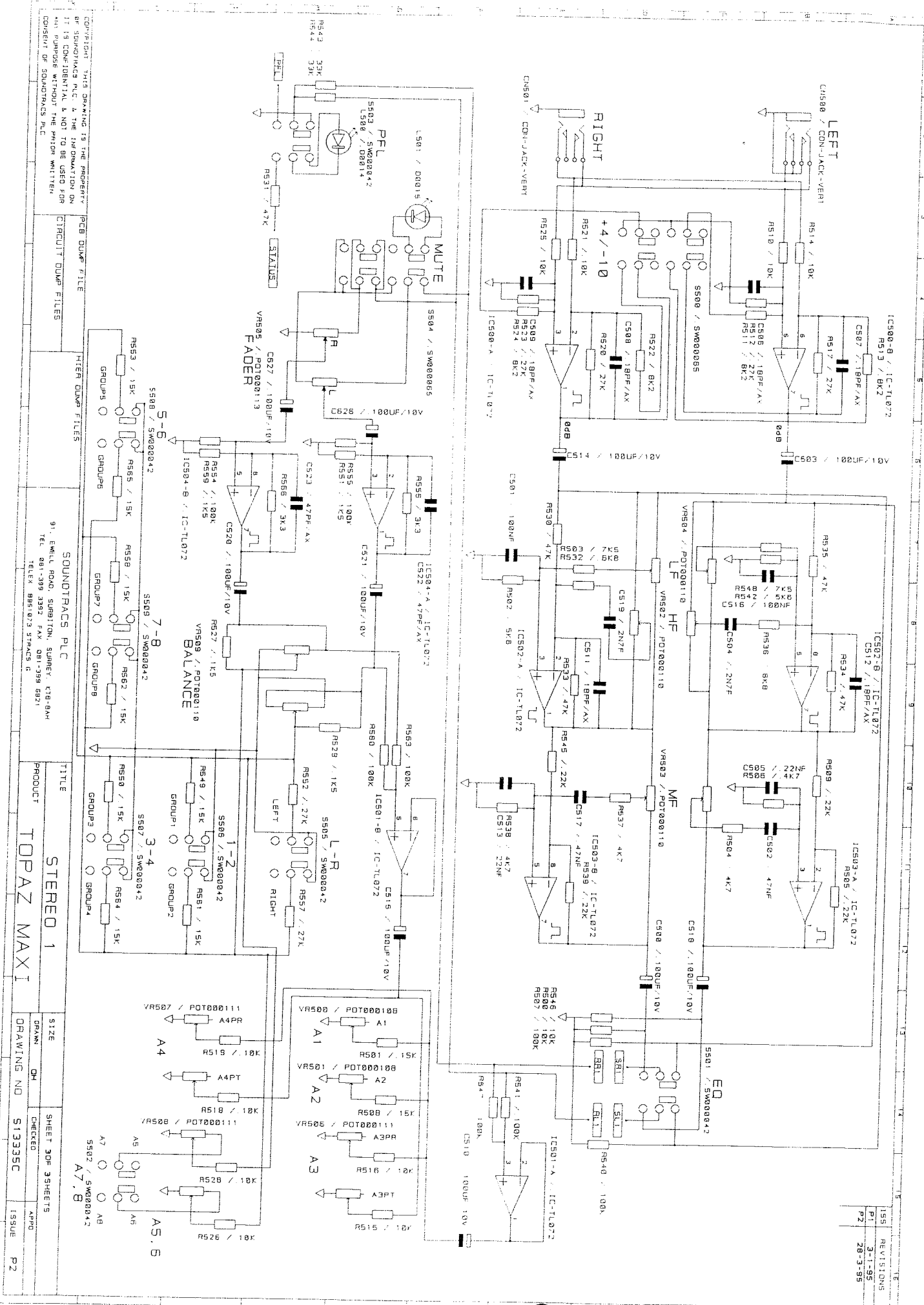
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TEL: 081-399 2392 FAX: 081-399 6021  
TELEX: 9951073 STRACS G

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PRODUCT	DRAWN	CHECKED	APPD	
TOPAZ MAXI	OH			
DRAWING NO				
S1335A				
ISSUE				
P2				





REV	REVISIONS
P1	3-1-95
P2	28-3-95



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HI-FI DUMP FILES

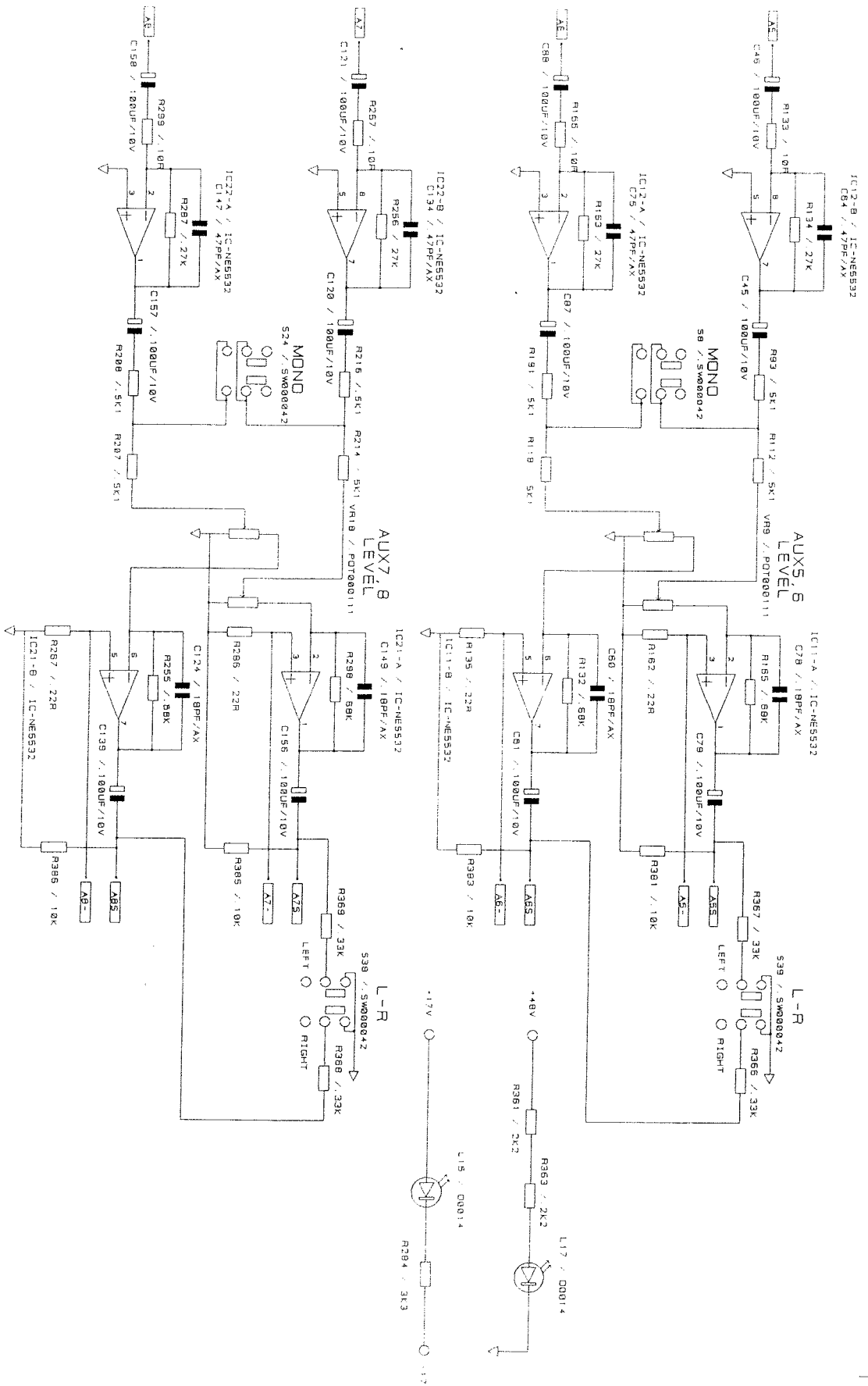
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91, EVELL ROAD, SUDBURY, SURREY, KT8 9AH  
TEL: 081-389 3352 FAX: 081-389 6921  
TELEX: 8951073 STRACKS G

TITLE	SIZE	SHEET 30F 35SHEETS
STEREO 1	GRWN	CHKD
TOPAZ MAXI	DRAWING NO	513335C
	APPD	ISSUE P2





REV	REVISIONS
P1	4-1-95
P2	25-1-95 BAX



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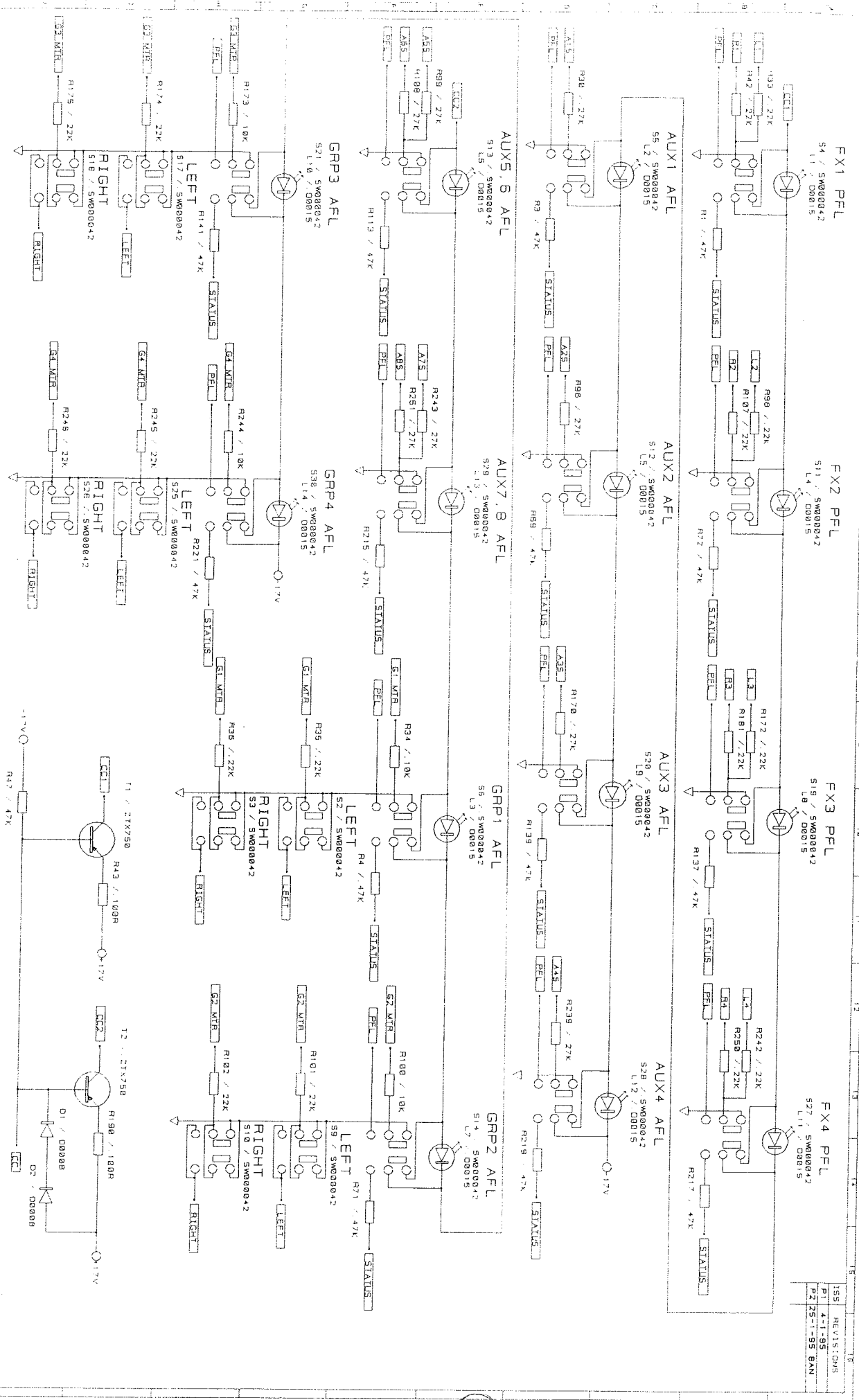
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CIRCUIT DUMP FILES

HIER DUMP FILES

SOUNDTRACKS PLC  
91, PEARCE ROAD, SOUTHBITON, SURREY, KT8 9AX  
TEL: 081-389 3897 FAX: 081-389 8821  
TELEX: 9851079 STRACKS G

TITLE: AUX 5-8  
PRODUCT: TOPAZ MAX I

SIZE: SHEET 30F 7 SHEETS  
DRAWN: OH  
CHECKED: S13336C  
APPRO: ISSUE P2



ISS	REVISIONS
P1	4-1-95
P2	25-1-95 BAN

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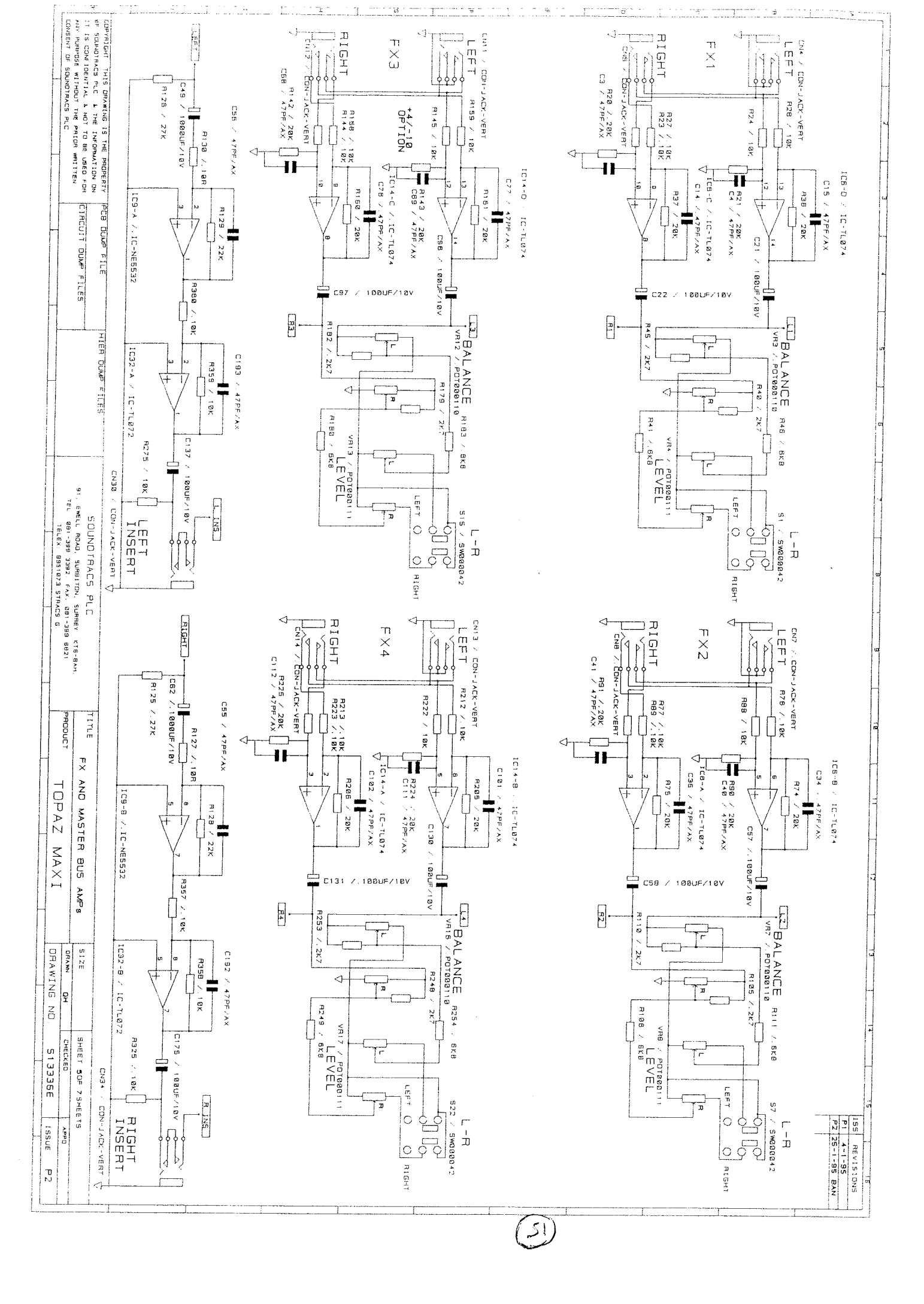
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SOUNDTRACKS PLC  
91, BOWELL ROAD, SUDBURY, SUMNER, KTB-9AW  
TEL: 081-389 3392, FAX: 081-389 6921  
TELEX: 9951973 STRACKS G

TITLE: MASTER SOLOS  
PRODUCT: TOPAZ MAXI

SIZE	SHEET 4 OF 7 SHEETS
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APPRO	
ISSUE	P2





ISS	REVISIONS
P1	4-11-95
P2	25-11-95 BAN

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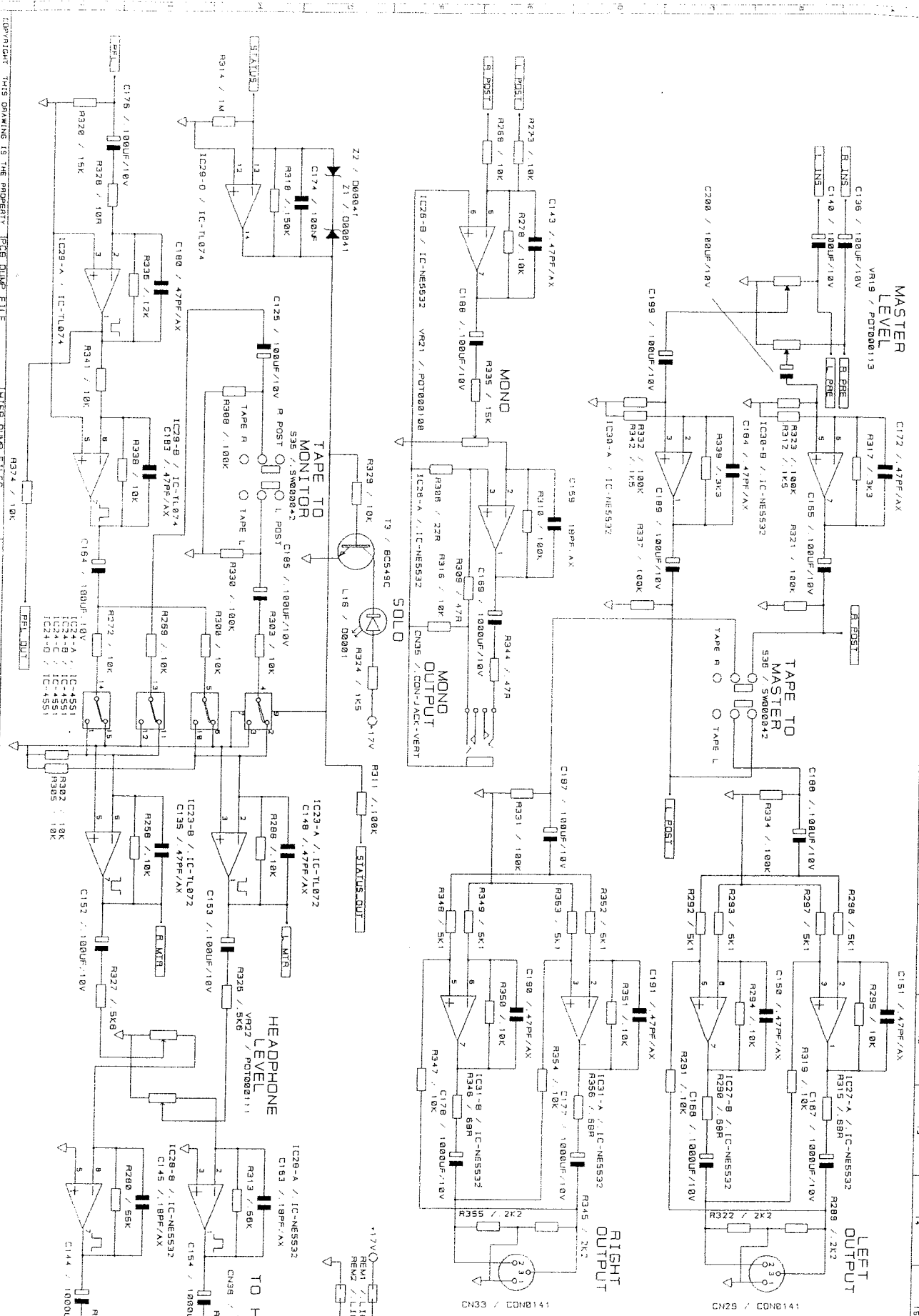
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 91, EVELL ROAD, SUTTON, SURREY, KT8 8AH,  
 TEL: 081-389 3362, FAX: 081-389 8931,  
 TELEX: 991073 STRACKS G.

TITLE: FX AND MASTER BUS AMPS  
 PRODUCT: TOPAZ MAXI

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 ISSUE: P2

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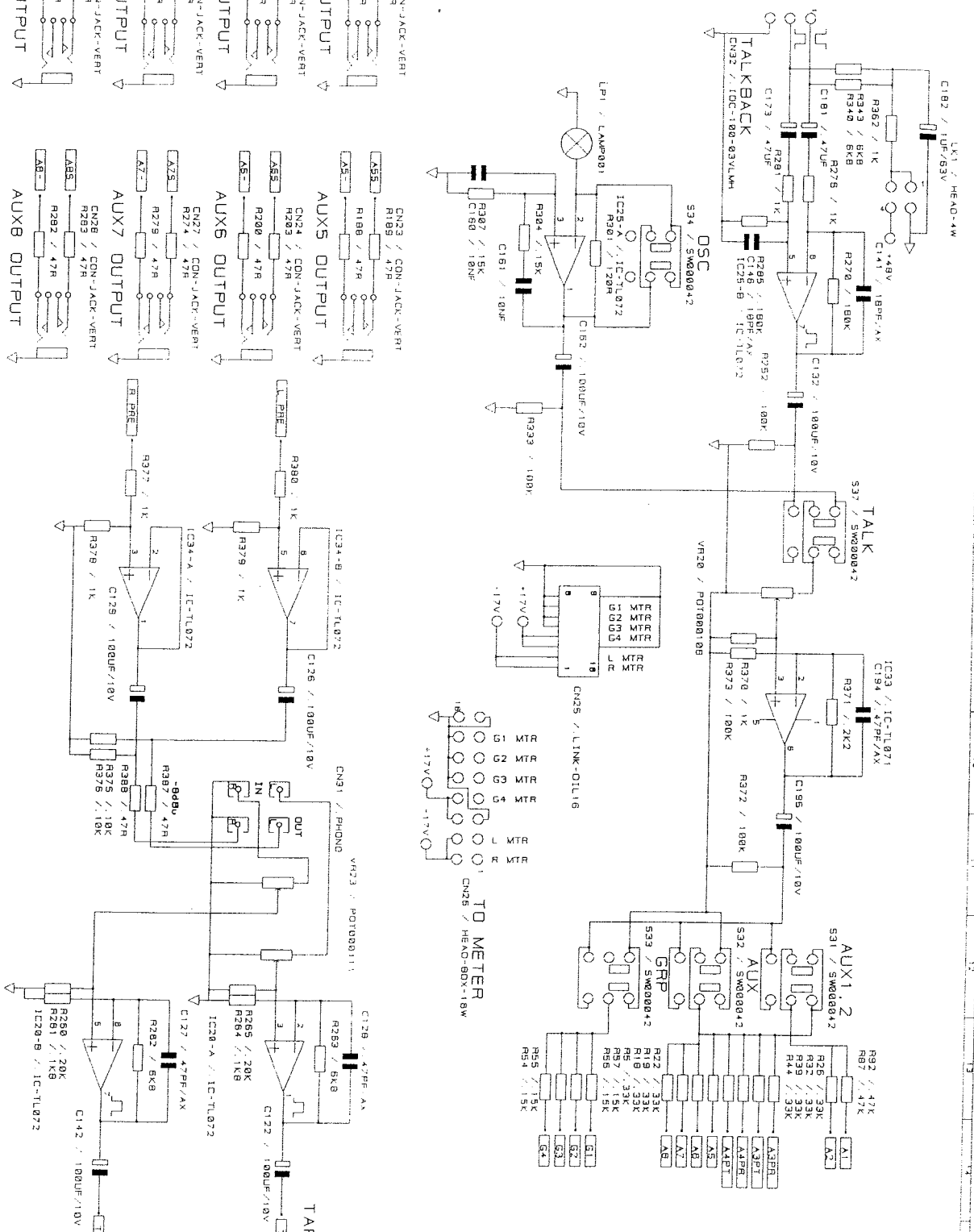
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R1	4-1-95
R2	25-1-95 BAN



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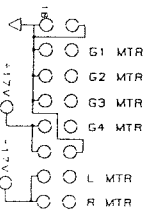
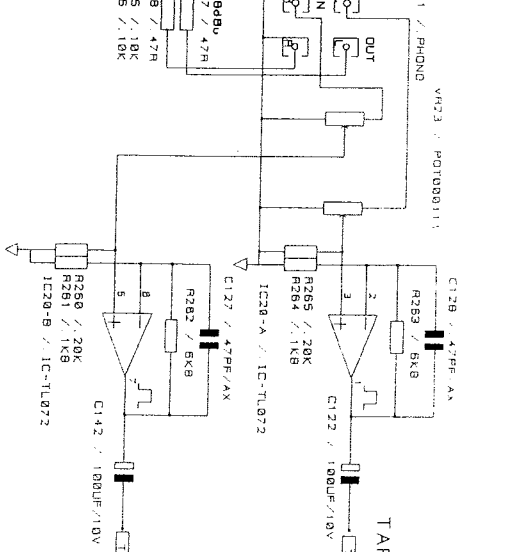
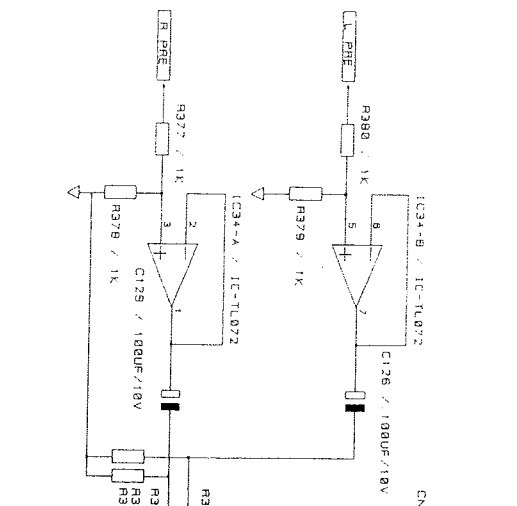
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CHECKED	
SHEET	80P 7 SHEETS
DRAWING NO	S13336F
APPD	
ISSUE	P2

SOUNDTRACKS PLC  
 91, EMBLEY ROAD, SUNNINGTON, SUNBEY, KT8 8AH  
 TEL: 081-299 3292, FAX: 081-299 8921  
 TELEFAX: 081-299 519AC9 G.



- ICN2 / CON-JACK-VERT
- R115 / 47R
- A1S
- R114 / 47R
- AUX1 OUTPUT
- ICN8 / CON-JACK-VERT
- R117 / 47R
- A2S
- R116 / 47R
- AUX2 OUTPUT
- ICN9 / CON-JACK-VERT
- R188 / 47R
- A3S
- R185 / 47R
- AUX3 OUTPUT
- ICN20 / CON-JACK-VERT
- R197 / 47R
- A4S
- R194 / 47R
- AUX4 OUTPUT

- ICN23 / CON-JACK-VERT
- R189 / 47R
- A5S
- R188 / 47R
- AUX5 OUTPUT
- ICN24 / CON-JACK-VERT
- R200 / 47R
- A6S
- R200 / 47R
- AUX6 OUTPUT
- ICN27 / CON-JACK-VERT
- R274 / 47R
- A7S
- R279 / 47R
- AUX7 OUTPUT
- ICN28 / CON-JACK-VERT
- R282 / 47R
- A8S
- R282 / 47R
- AUX8 OUTPUT



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 CIRCUIT BOARD FILES: SOUNDTRACS PLC

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 TEL: 081-389 3852, FAX: 081-389 8821  
 ELEM: 8931973 STRACS G

TITLE	HEADPHONE/ TAPE RETURN
PRODUCT	TOPAZ MAX I
SIZE	SHEET 7 OF 7 SHEETS
GRAN	CHECKED
OH	APPRO
DRAWING NO	S13336G
ISSUE	P2

155	REV1510MS
P1	4-1-95
P2	25-1-95 BAN



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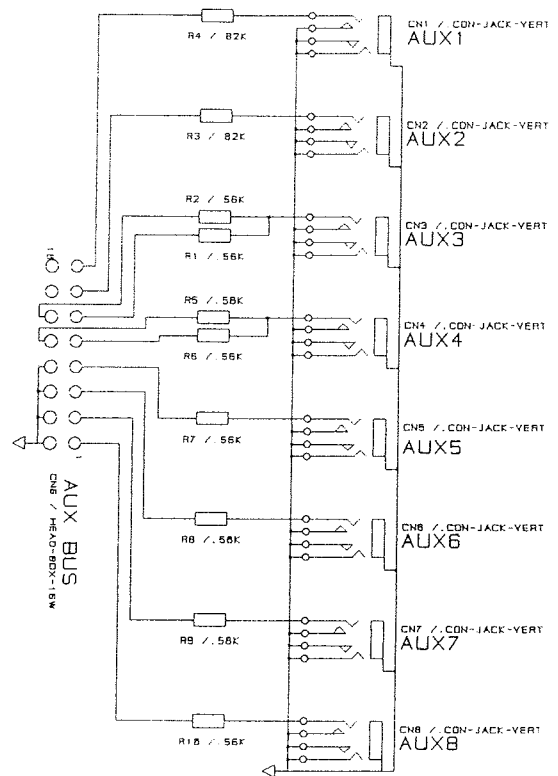
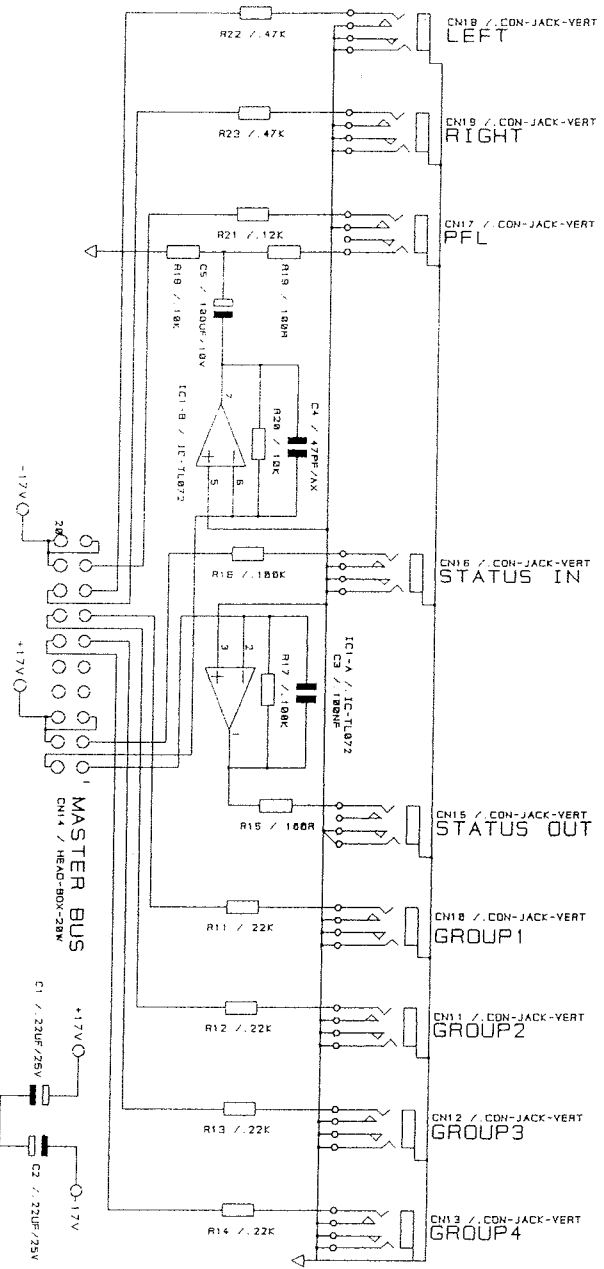
INTER DUMP FILES

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91, EWEILL ROAD, SUNNINGTON, SUNBEY, KT8-8AH  
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TITLE  
AUX BUS  
TOPAZ MAX I

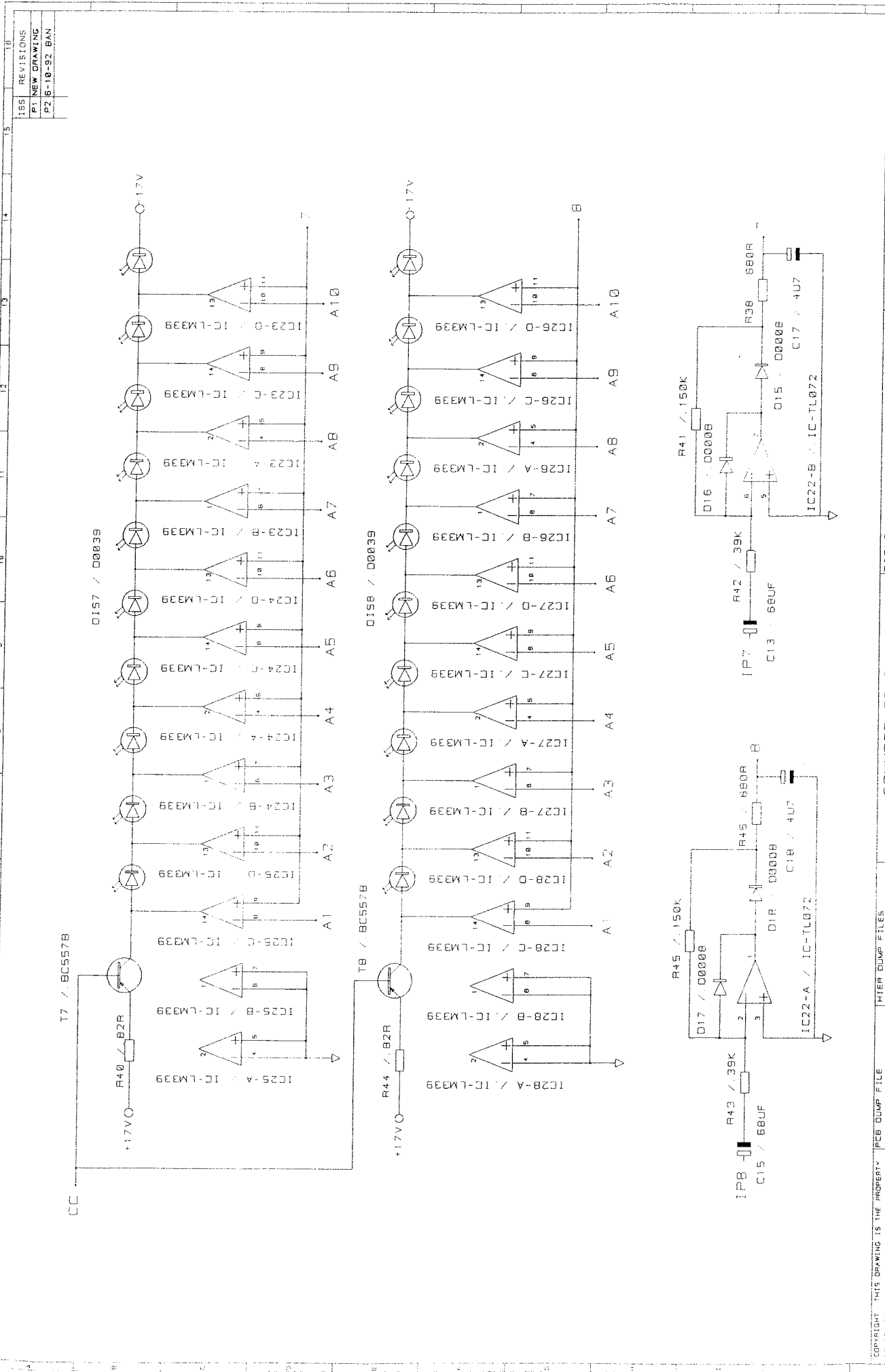
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SHEET 1 OF 1 SHEETS  
CHECKED  
APPD  
ISSUE A



ISS	REVISIONS
R1	18-11-84
R2	7-6-85
A	3-8-85
C2	A.S. APPROVED



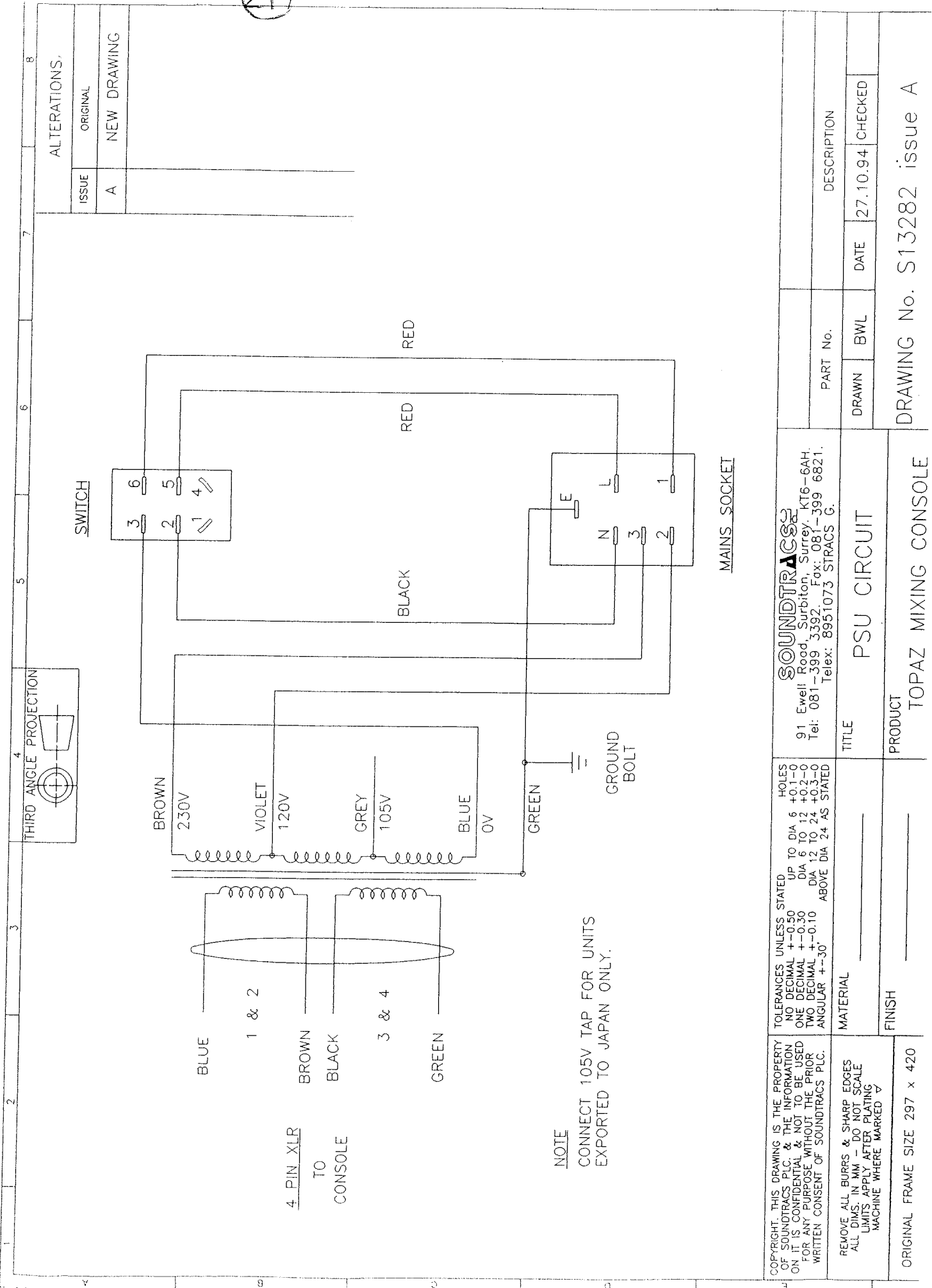


185	REVISIONS
P1	NEW DRAWING
P2	B-19-92 BAN

SOUNDTRACS PLC 91, EMBELL ROAD, SURBITON, SURREY, KT6 8M TEL. 081-399 3382, FAX. 081-399 8821 TELEX. 0951973 STNACS G		TITLE INPUT METERING		SIZE SHEET 20F 25SHEETS	
PCB DUMP FILE		CIRCUIT DUMP FILES		DRAWN DH	
HINTER DUMP FILES		PRODUCT TOPAZ		CHECKED APPO	
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External PSU as fitted to early Topaz Maxi

21



**NOTE**  
CONNECT 105V TAP FOR UNITS EXPORTED TO JAPAN ONLY.

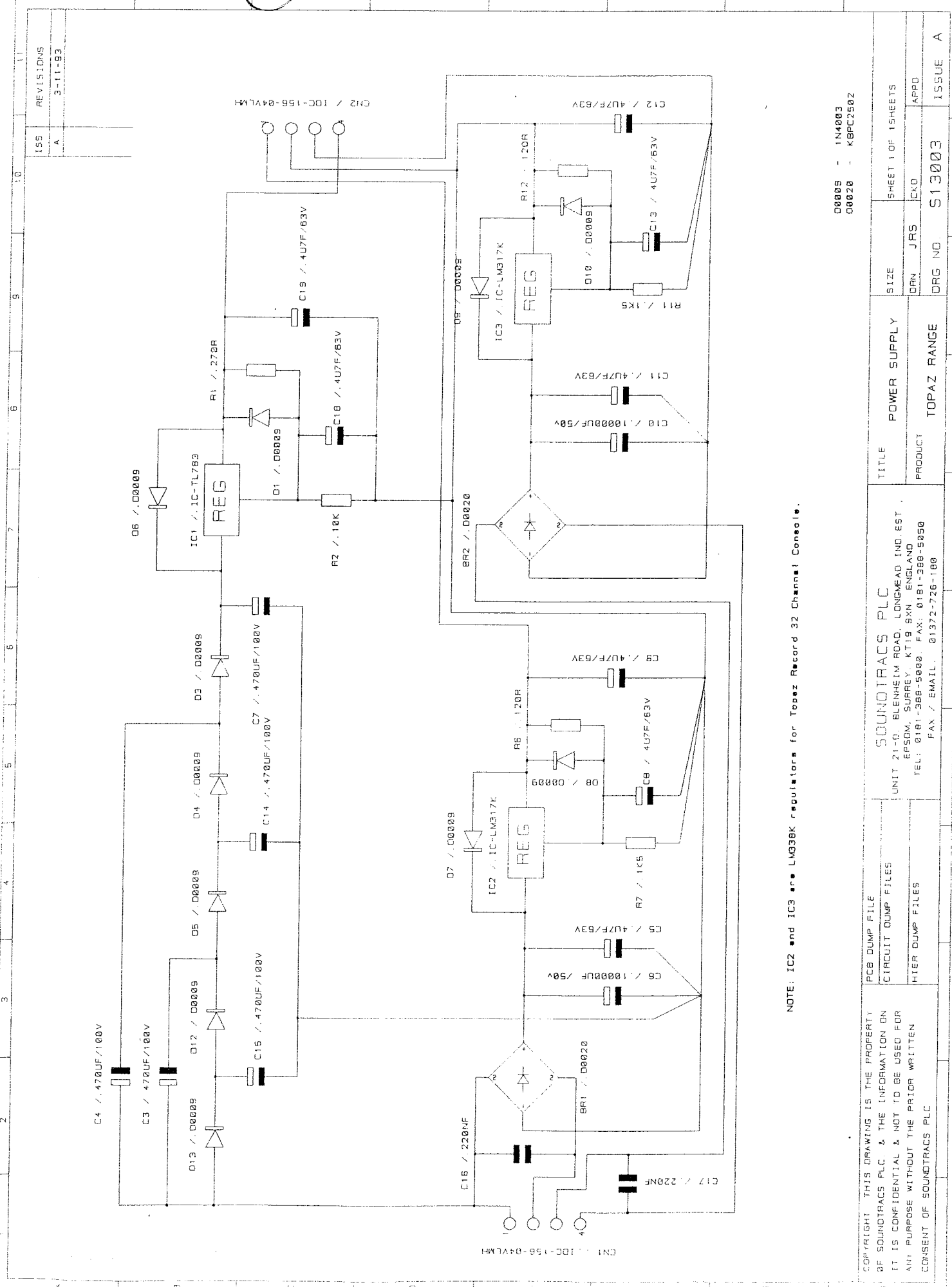
COPYRIGHT. THIS DRAWING IS THE PROPERTY OF SOUNDTRACCS PLC. & THE INFORMATION ON IT IS CONFIDENTIAL & NOT TO BE USED FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF SOUNDTRACCS PLC.		TOLERANCES UNLESS STATED NO DECIMAL $\pm 0.50$ ONE DECIMAL $\pm 0.30$ TWO DECIMAL $\pm 0.10$ ANGULAR $\pm 30'$		HOLES UP TO DIA 6 $+0.10$ DIA 6 TO 12 $+0.2-0$ DIA 12 TO 24 $+0.3-0$ ABOVE DIA 24 AS STATED	
REMOVE ALL BURRS & SHARP EDGES ALL DIMS IN MM DO NOT SCALE LIMITS APPLY AFTER PLATING MACHINE WHERE MARKED $\nabla$		MATERIAL		FINISH	
ORIGINAL FRAME SIZE 297 x 420					

SOUNDTRACCS 91 Ewell Road, Surbiton, Surrey, KT6-6AH. Tel: 081-399 3392. Fax: 081-399 6821. Telex: 8951073 STRACS G.		TITLE PSU CIRCUIT		PRODUCT TOPAZ MIXING CONSOLE	
PART No.		DRAWN	BWL	DATE	CHECKED
DESCRIPTION					

ALTERATIONS.		ISSUE		ORIGINAL	
		A		NEW DRAWING	

DRAWING No. S13282 issue A

22



REV	REVISIONS
155	
A	3-11-93

NOTE: IC2 and IC3 are LM338K regulators for Topaz Record 32 Channel Console.

00009 - 1N4003  
00020 - K8PC2502

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CIRCUIT DUMP FILES		TITLE	
HIER DUMP FILES		POWER SUPPLY	
UNIT 21-0, BLENHEIM ROAD, LONGHEAD IND. EST. EPSOM, SURREY, KT19 9XN, ENGLAND TEL: 0181-388-5000 FAX: 0181-388-5050 FAX / EMAIL: 01372-726-180		SIZE	SHEET 1 OF 15 SHEETS
PRODUCT		DRN	JRS
TOPAZ RANGE		CKO	APPD
DRG NO. S13003		ISSUE A	