

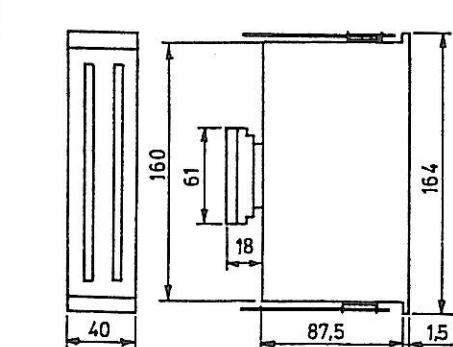
Supply voltage	variable 22-32V	
Max. ripple voltage	0.1Vpp	
Current consumption	appr. 200mA at 24V	
Temperature range	0 to +45 °C amb.temp.	
Frequency range	20Hz to 16kHz	
Input impedance in freq.range	20kOhm +/-15% symmetrical 1)	
Input voltage for 0dB (05dB) reading	1.55Vrms sine (+6dBu)	
Input overload level	8.6Vrms sine (+21dBu)	
Dynamic measuring range	55dB	
Measuring errors	<u>+5 to -10dB</u>	<u>below -10dB</u>
1kHz steady signal, 25 °C	+/- 0.5dB	+/- 1dB
within freq.range, 25 °C	+ 0.5/-1dB	+0.5/-2dB
within temp.range, 1kHz	+/- 1 dB	+/- 2dB
polarity shift of asymmetrical wave	0.5dB	1dB
10% change of supply voltage	0.2dB	0.2dB
Tracking between channels	0.5dB	
Integration time	10mS for -1dB +0.5dB	
conforming to DIN 45406	5mS for -2dB +/-1dB	
and IEC proposal of September 1970	3ms for -4dB +/-1dB	
Fall-back time (adjustable)	0.4ms for -15dB +2dB	
Overload indication	0 - -20dB : 1.5 secs.	
Scale length	0 - -40dB : 2.5 secs. +/- 0.1	
Number of elements per channel	a six times increase of the light intensity	
Colour	127 mm	
Standard scales:	101	
All types are available	neon orange	
for horizontal or vertical mounting	+5 to -50dB DIN	
Mechanical outline	+9 to -36dB "Nordic"	
Colour	1-7 "BBC" (4 = 0.775V)	
Accessories	see below	
	black	
	10 pole edge connector type CCL10DV	
	Spacing: 3.96 mm	
	Two fasteners for panelmounting	

If the dual.log. amplifier is removed, the 177-800 can be used as a dc-voltmeter with a sensitivity of 1 volt for full-scale-deflection (10mV resolution). See below for connection.

Note 1: Because of the internal floating supply voltage, no input transformers are needed. 40dB common-mode rejection is obtained by differential Op-amp. technique.

Mechanical Outline.

Connections.



Panel Cut-out

40^{+0.5}₋₀ x 160^{+0.5}₋₀ mm

Panel thickness max.20mm.

19880108

P.P.M - Mode Term No.

- 1 Power Supply Pos.
- 2 Power Supply Neg.
- 3 Chassis
- 4 Not Connected
- 5 Input Ground
- 6] Bal. Input Left
- 7]
- 8 Input Ground
- 9] Bal. Input Right
- 10]

dc - Voltmeter - Mode Term No.

- 1 Power Supply Pos.
- 2 Power Supply Neg.
- 3 Chassis
- 4 Not Connected
- 5 " "
- 6 " "
- 7 " "
- 8 Input Ground
- 9 dc Input Left
- 10 dc Input Right

Normally the PPM will stay correctly adjusted, except when a component has failed and been replaced; then it may be necessary to make certain adjustment. Before attempting to make any adjustments, note the permissible indication errors stated in Technical Specifications.

Voltmeter adjustment (Removed Log. Amplifier)

C3 calibrates the stair-case-waveform generator to 10 mV per step.

P1 adjusts the starting point of the overload area.

Turn P1 fully CW.

Connect a dc-source of 1,005V between Term. 8 (Input Ground) and Terminals 9/10 (dc-input Left/Right). Terminal 8 negative. Adjust C3 until cathode number 101 just starts glowing.

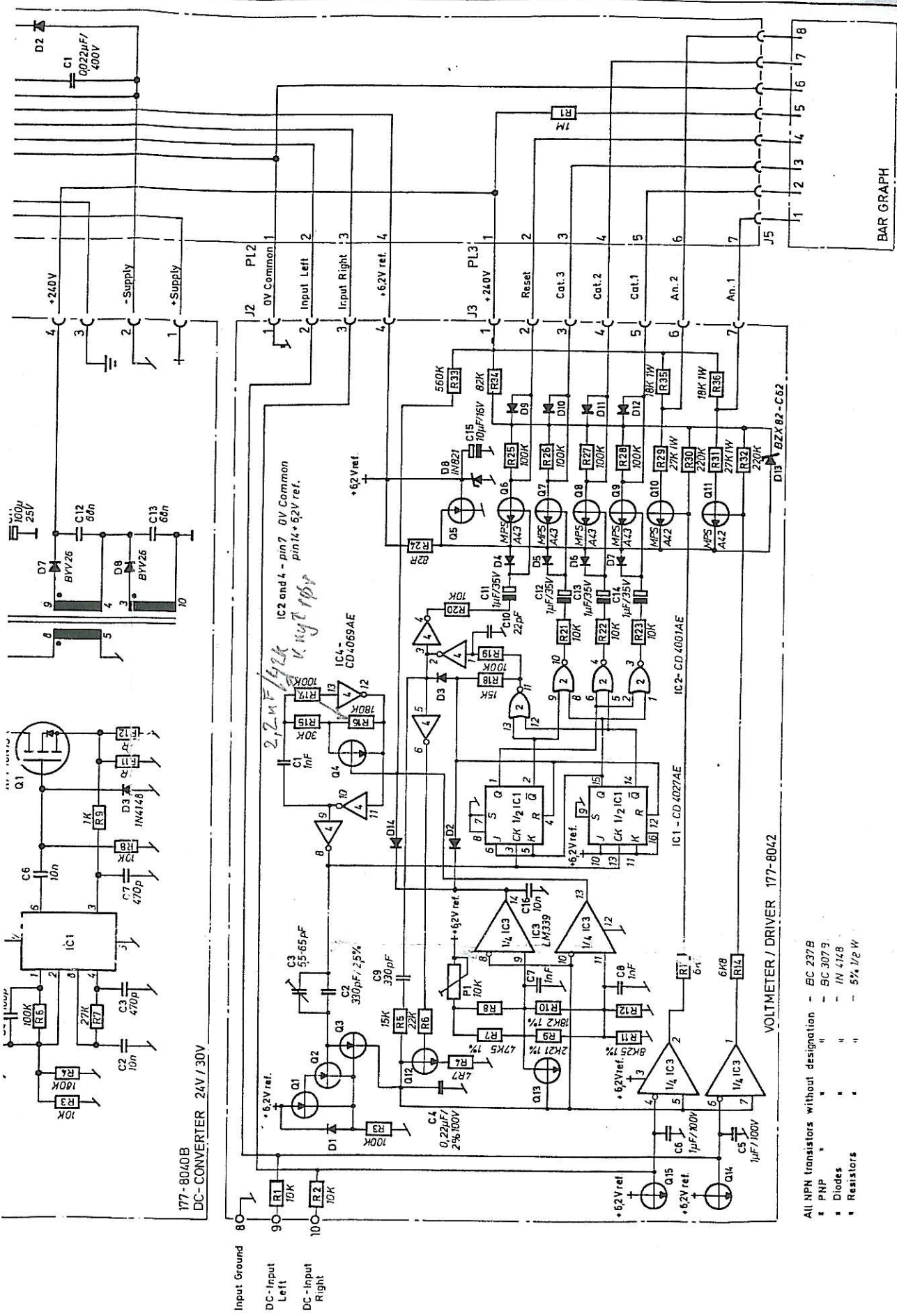
Then P1 is adjusted so that the overload area starts at cathode number 83.

Log. amplifier adjustment

Apply input signal 1 kHz (ref. level) and adjust P2 Ref. Level to ref. reading.

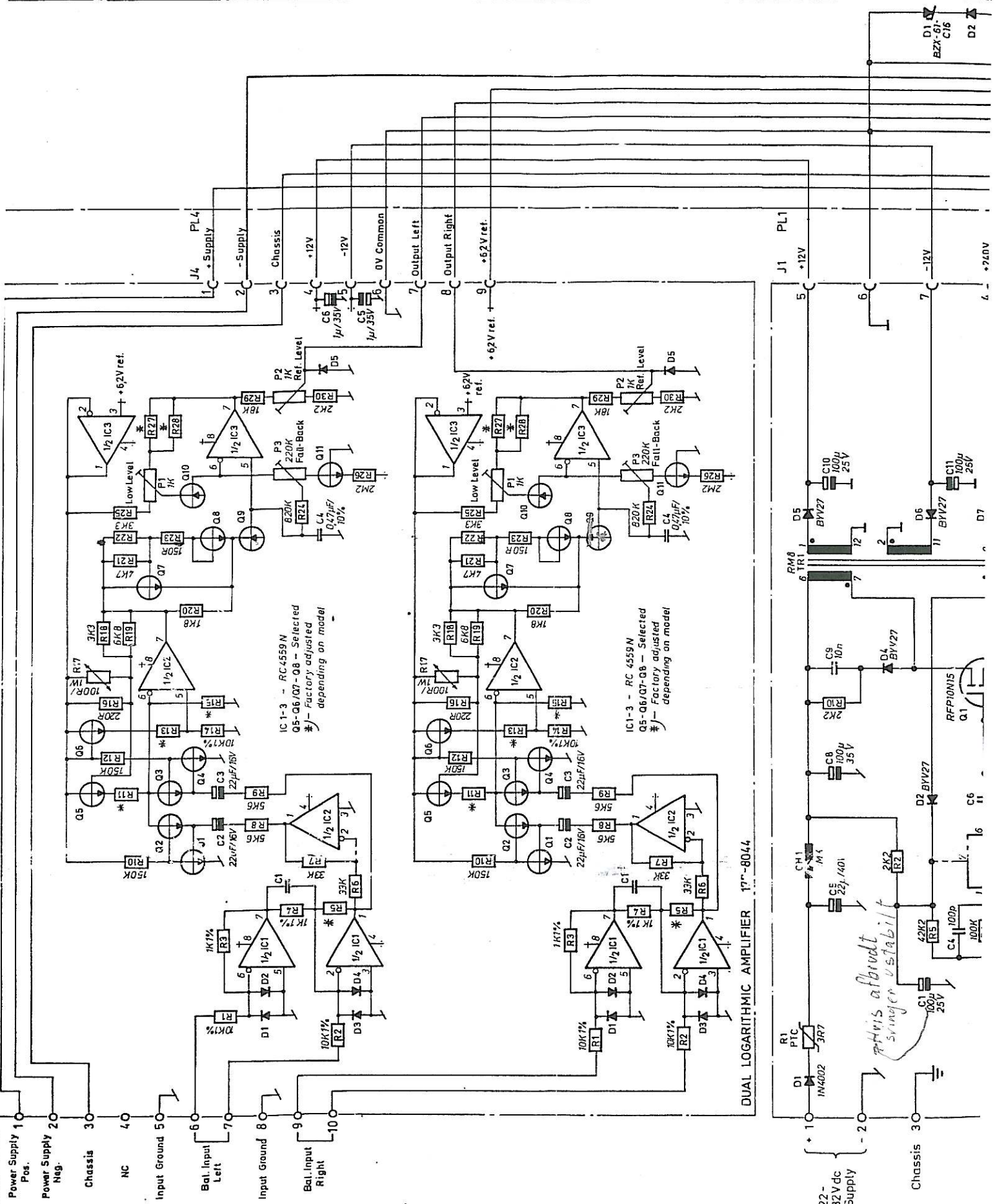
Reduce input signal 40 dB and adjust P1 Low Level to ref. level - 40 dB reading.

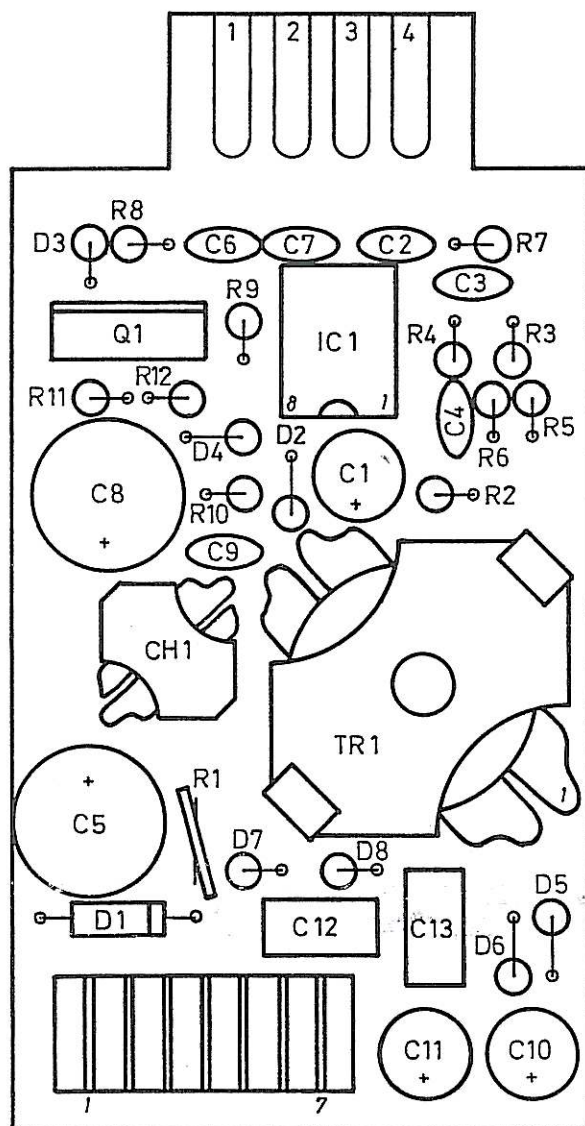
Adjust P3 Fall-Back to correct fall-back time.



Pos.	Anteil:	Materiale:	Behandl.	Del af
Målestok:				
Tolerance:	1 mm			
Tegnet:	131.88 PLJ/R			
Goddendt:				
Revident:	1/920827			

Bar Graph PEAK PROGRAMME METER
177-800
Circuit Diagram






 All diodes

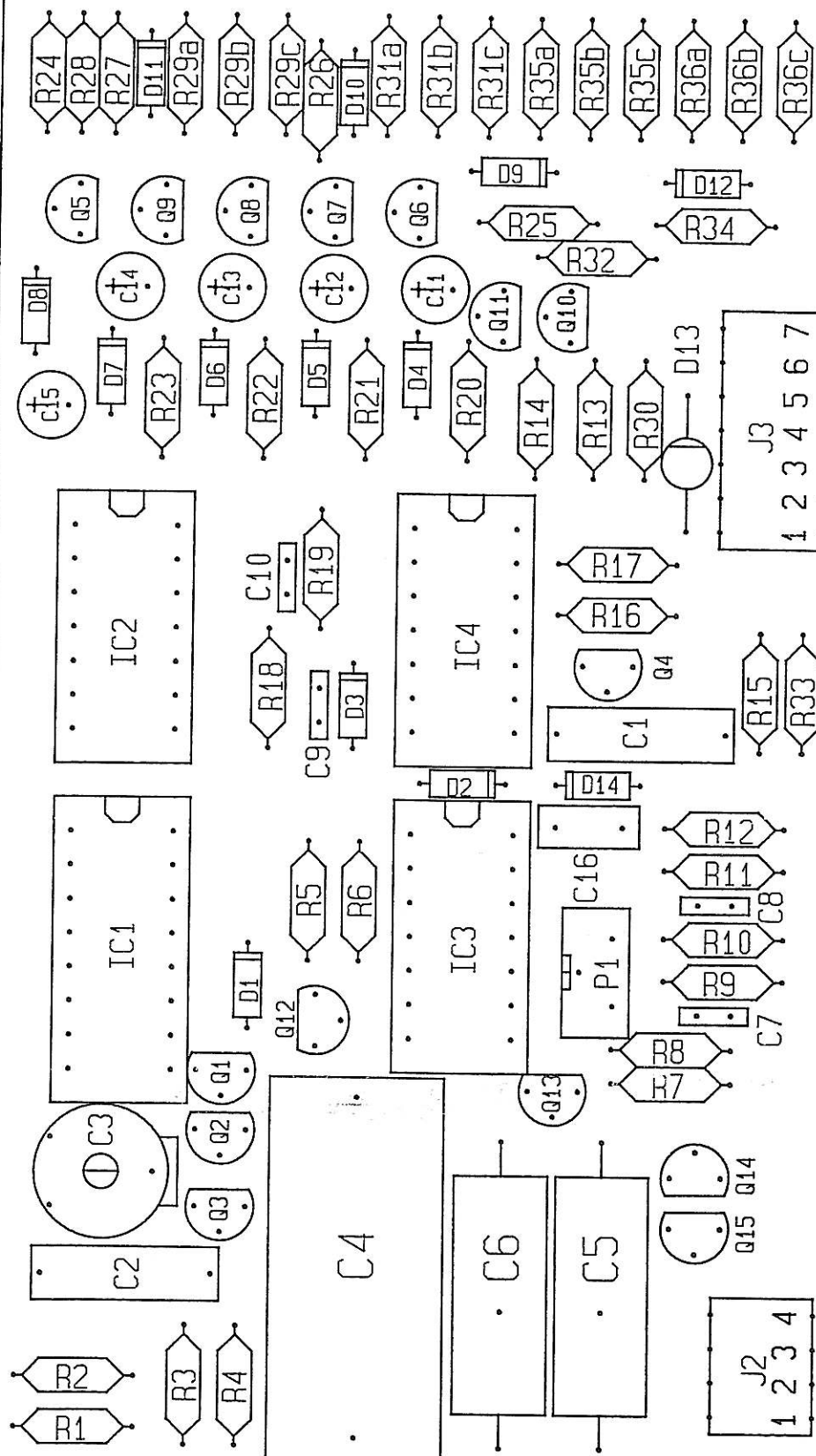
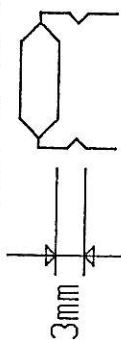
Målestok	: 2:1
Konstruktør	: PLJ
Tegnet	: 16.12.87.
Godkendt	:
Revideret	: 1/930217


PPM 177-800B
 Power Supply 177-8040B
 Component Lay-out

NTP
 NTP ELEKTRONIK A/S

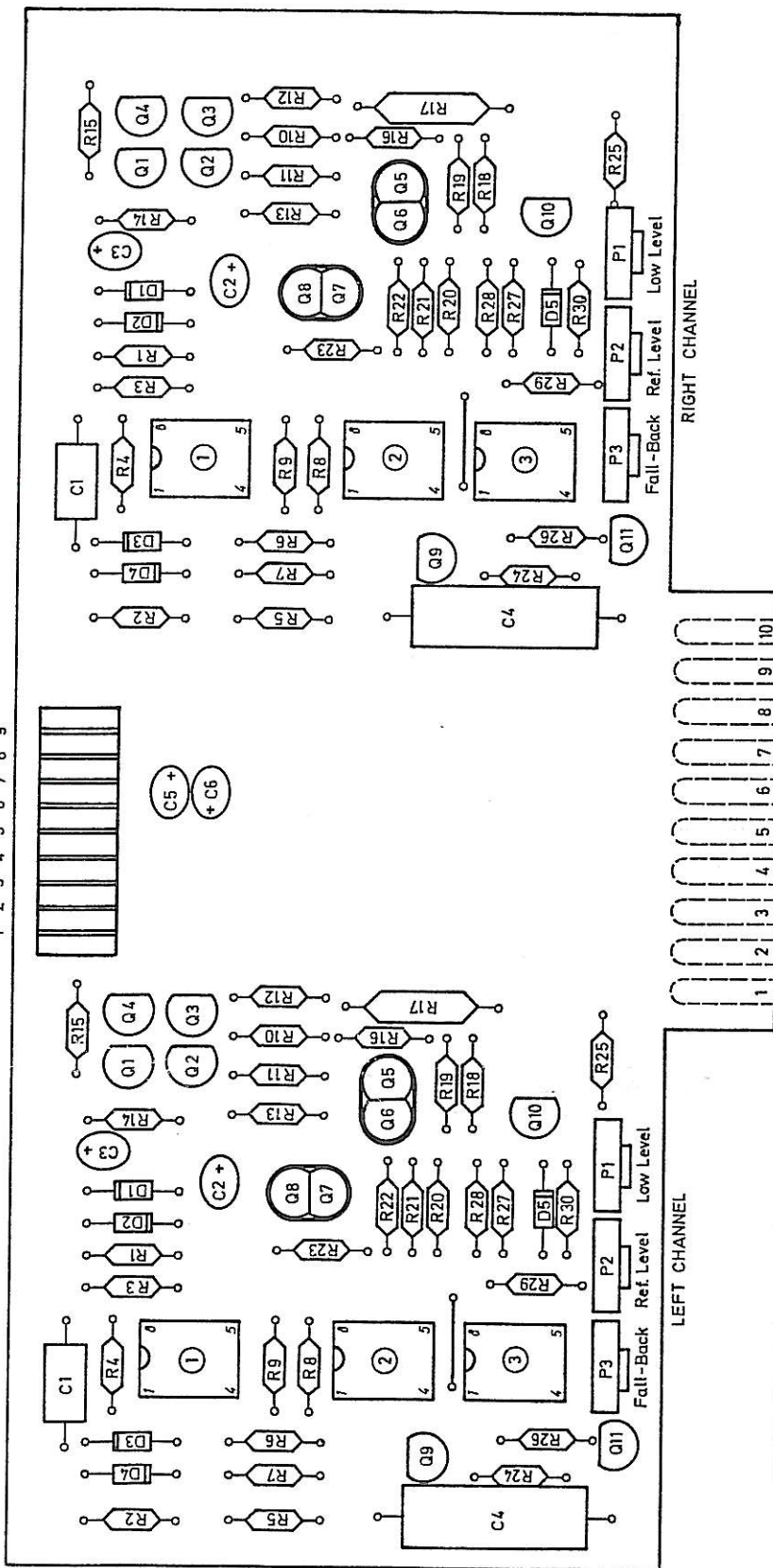
177-8041-B-4

R29-31-35-36



Blank piece:	Material:	Treatment:	Page of
Scale :	Bar Graph Peak Programme Meter 177-800 Voltmeter / Driver Component Lay-out		
Tolerance :			
Design : HEN			
Layout : 8.5.90.			
Revised : 3			
			177-8043-A-4

J4
1 2 3 4 5 6 7 8 9



Version dependent components:
R23, 20, 27, 5, 15, 11, 13

Reiteler

Pos.:	Antal:	Materiale:	Behandl.:	Det. al
Målestok : 2:1				
Tolerance : ± mm				
Tegnet : 1-6-77 TL				
Godkendt:				
Revideret : 2/900720 bb				

NTP
NTP ELEKTRONIK A/S

Bar Graph PPM 177-800
Dual Log. amplifiers
Components Lay-out

177-8045-A-3

ASF 268R