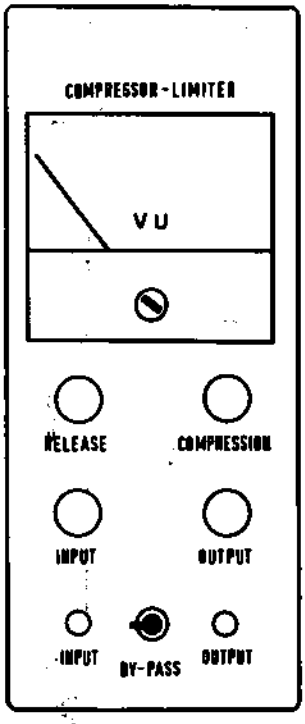
1973

COMPRESSOR - LIMITER



input	47K Ohms, 250 mV. : 10 V.
output	600 Ohms, 0 V. : 6 V.
gain	+ 24 dB.
frequency	20 : 20,000Hz. (± 1 dB.)
distortion	less than 1%, 40 : 18,000 Hz.
noise	- 60 dB.
threshold	input control 10 : 2 mV. input control 0 : 6 V.
release	0,1 : 10 sec., depending on compression
compression	from 1 : 1 to limit
limit level	0 : 6 V.
sockets	¼ Inch jacks
controls	rotary input volume control rotary output volume control rotary release time control rotary compression ratio control by pass switch
V.U. meter	- ∞ : + 3 dB.
power supply	internal, 27 Volts
dimensions	lenght 212 mm. width 102 mm. height 118 mm.
weight	1.0 kg.

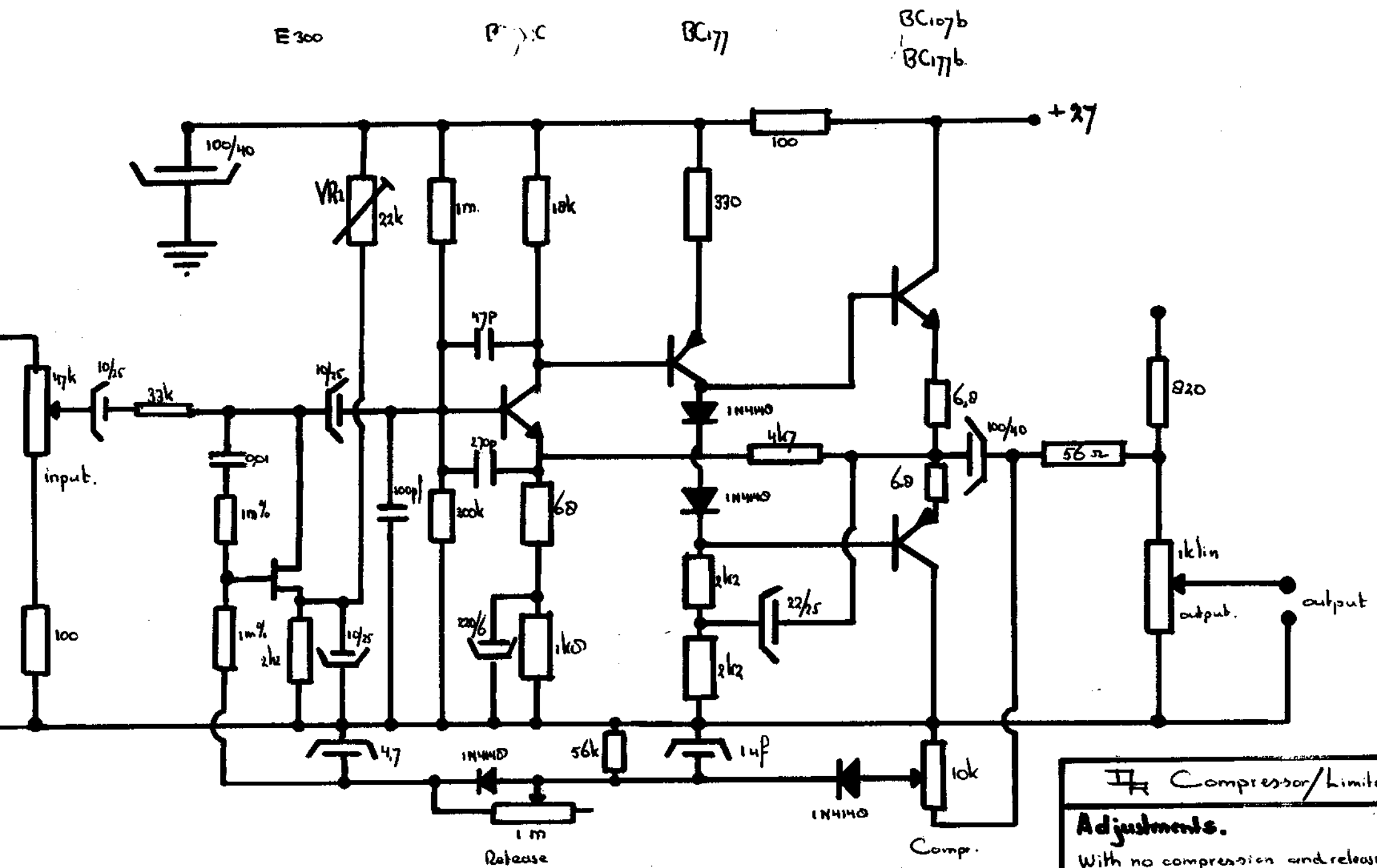
The D & R compressor-limiter will give the popgroup, using a high quality public-address system and the demo-studio a fine piece of equipment with advanced specifications at a very realistic and highly competitive price. The compressor-limiter will give you:

1. overload protection; the necessity to maintain large overload margins is obviated, enabling a more efficient use of the material plus added protection from accidental overload.
2. increased loudness; the amplification will increase at the quietest levels, while at the loudest levels the amplification will decrease. The overall level will thus be considerbly higher.
3. better intelligibility; changing input levels, caused by poor microphone technique will be eliminated, giving a constant output level.

The compressor-limiter is primarily a linear audio amplifier with variable voltage controlled attenuating element, using the currently most favoured field effect transistor (fet). This device has a non-linear voltage resistance relationship, which means that the unit is designed as feedback system. Non-linearities are thus automatically corrected within the feedback loop and accurate control of various slopes is possible. Distortion is largely second-harmonic and naturally this is very dependent on signal level across the device. With the fet, selective feedback enables this distortion to be reduced to around 0.5% with good signal-to-noise ratio.

Sole distributer: Haarlem Electronics Helios B.V.,
P. O. box 6255, Haarlem, Holland, telephone (023) 32 78 58

E300 BC177 BC107b BC177b



Compressor/Limiter

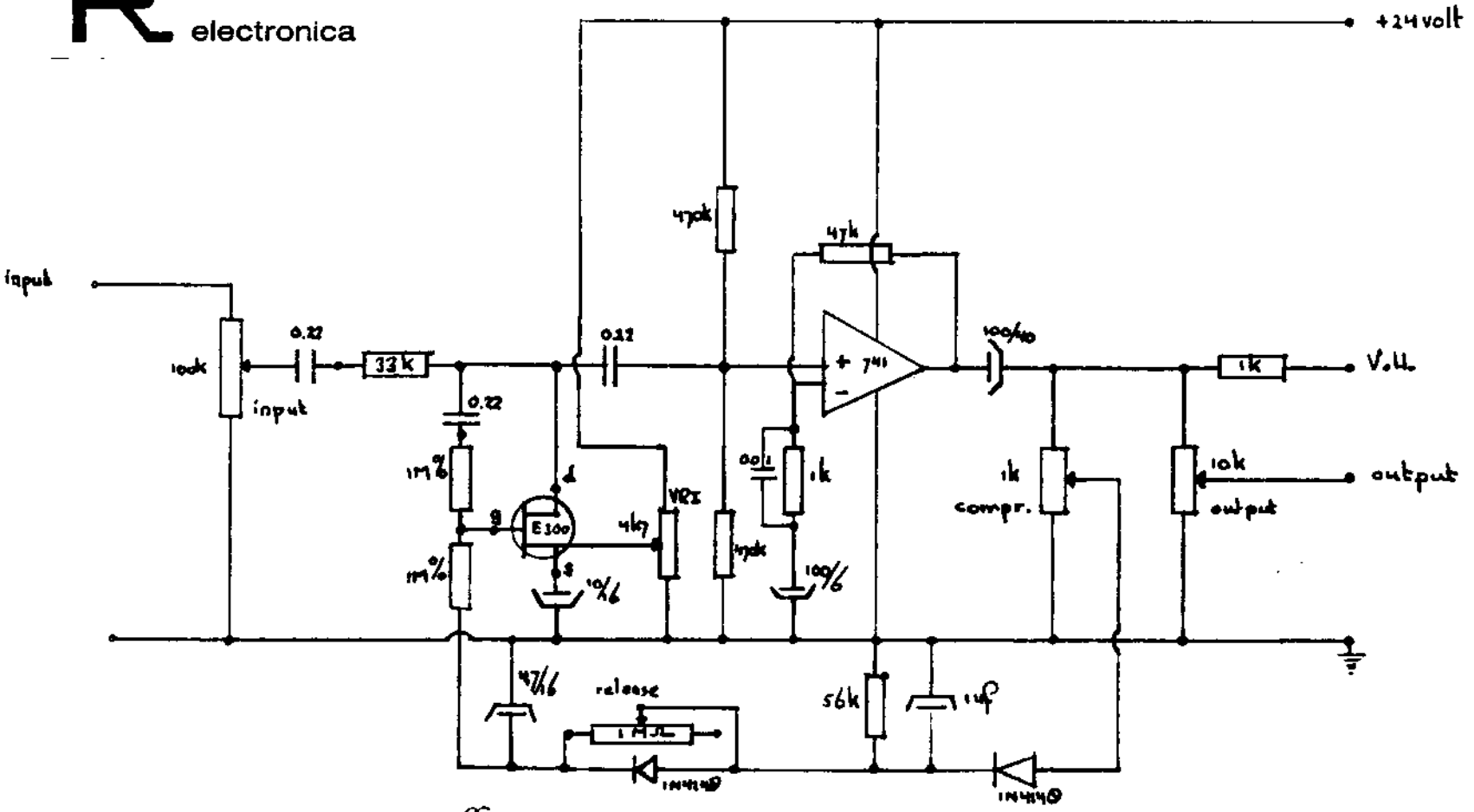
Adjustments.

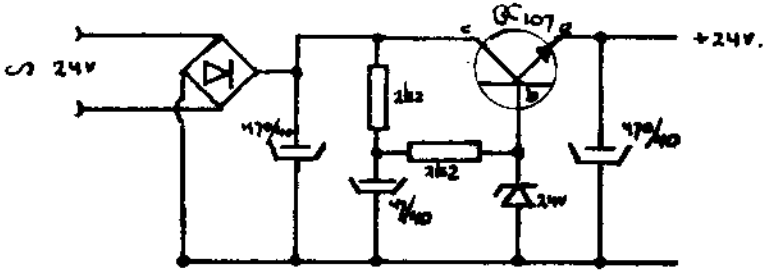
With no compression and release adjust VR1 for 3 dB overdrop.

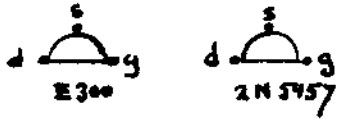
Adjuitment is necessary when supply voltage drops.

electronica

DR electronica



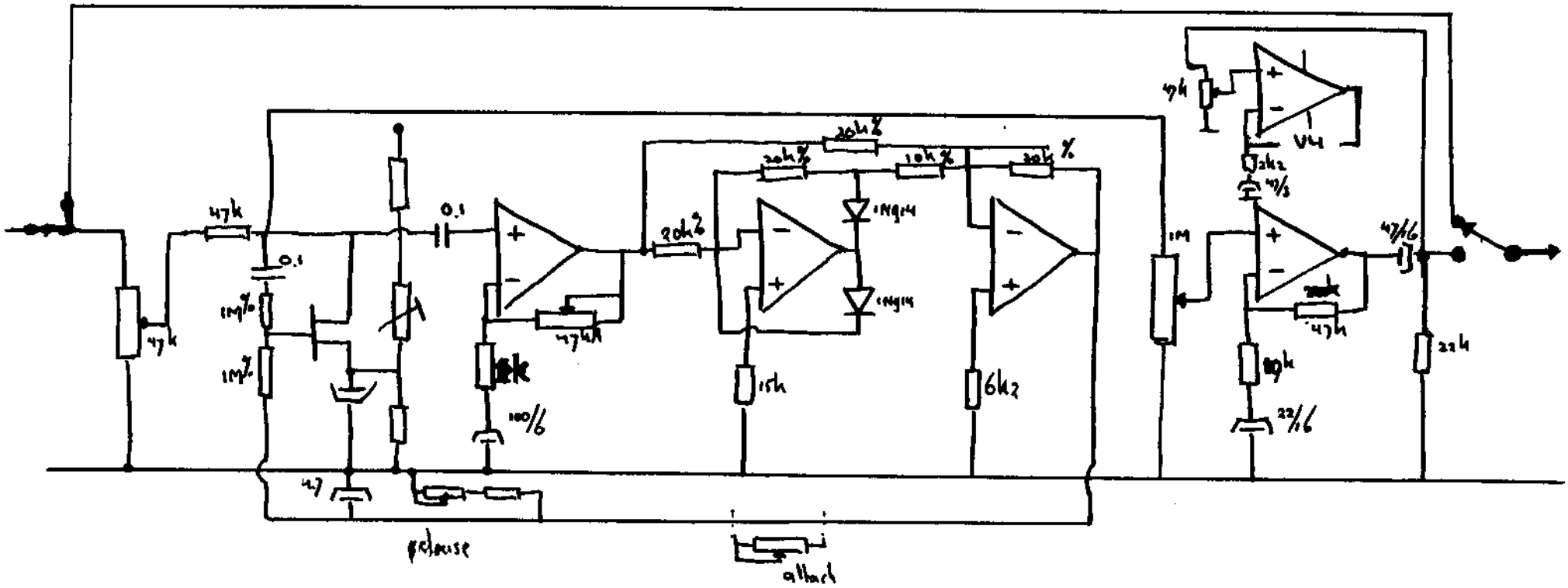


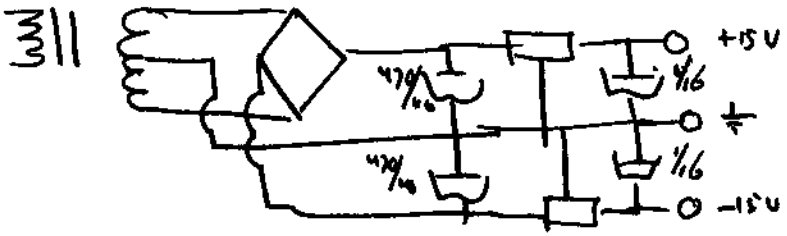


D & R Compressor-Limiter

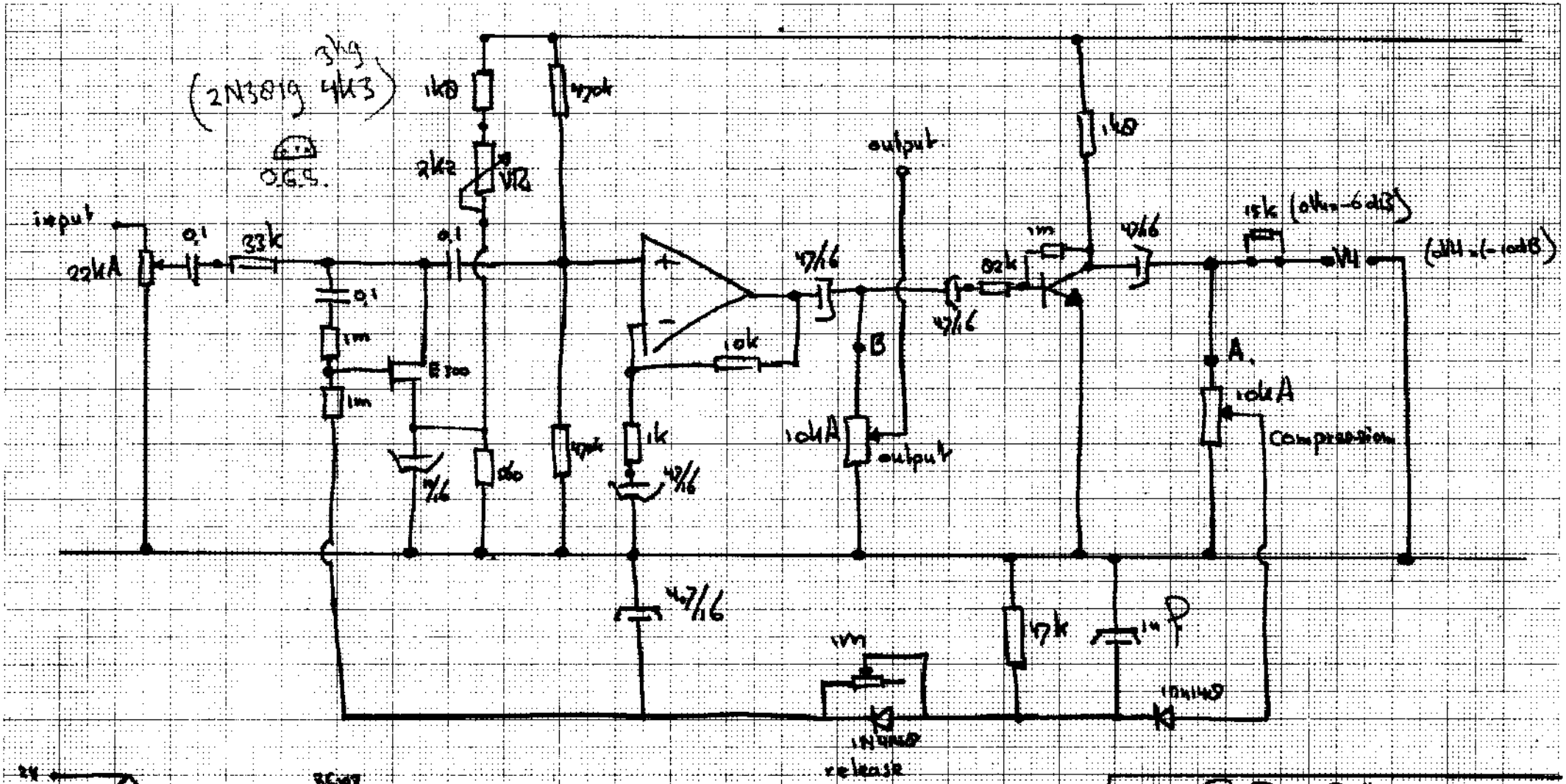
With no compression and release adjust VR1 for 1 dB overdrop.

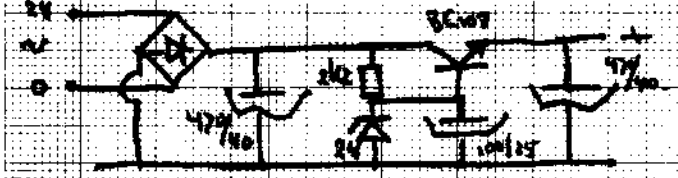
model C/L 75 ic
designed by D. de Ri





Compr/limiter model 76

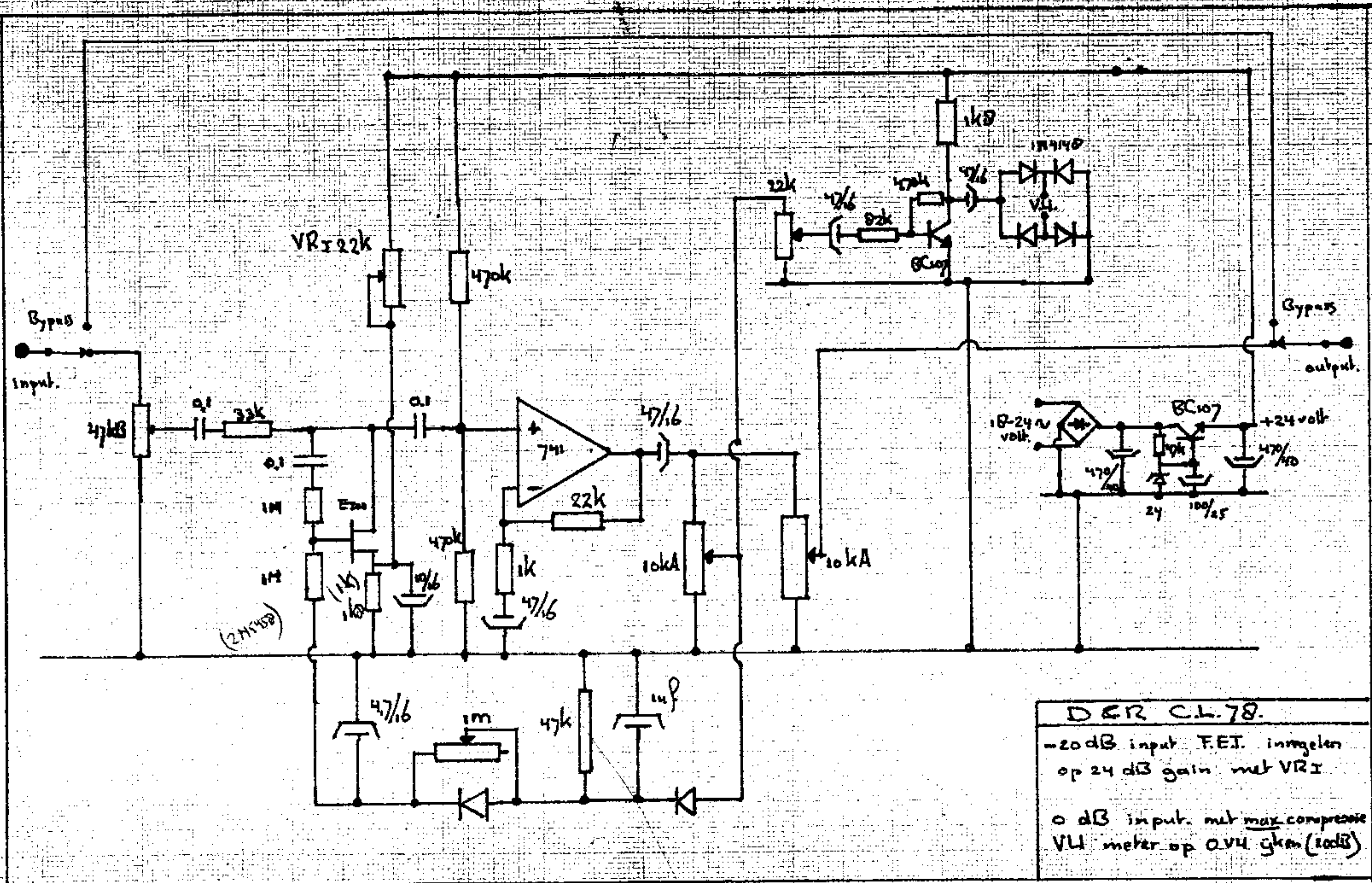




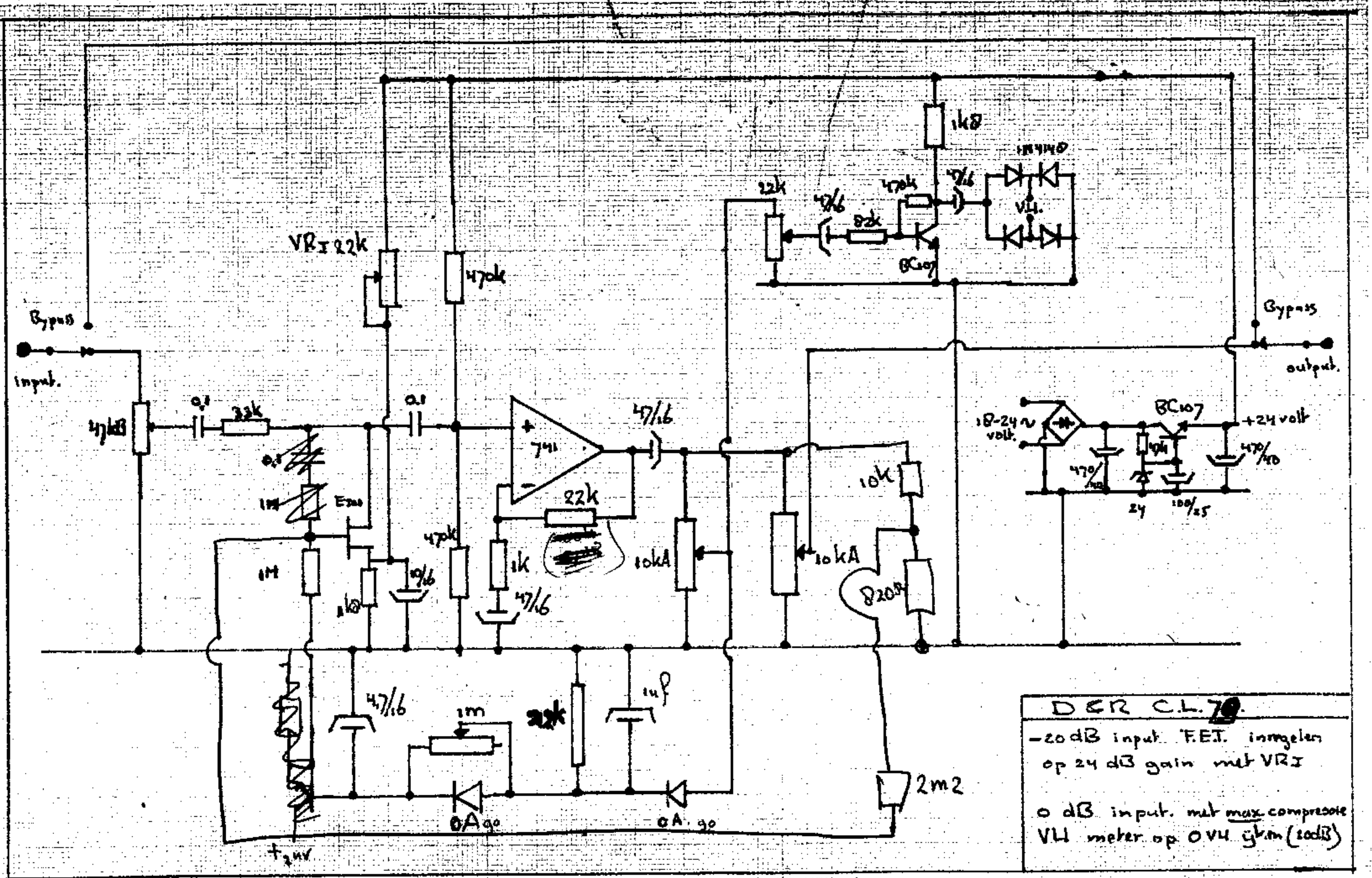
D & R C/L 77

adjust VR2 for 2 dB overdrive without compr. on.

Connect point A to point B for higher output, with full compression (disconnect A for less)



Bypass
input.
47kB
0,1
33k
0,1
1M
1M
E300
(1k)
10k
(2N5458)
VR I 22k
470k
0,1
741
47k
10/6
1k
47/16
22k
47/16
10kA
10kA
47/16
1m
47k
1uf
22k
47/6
82k
470k
47/6
1k8
1N4148
VU
BC107
Bypass
output.
18-24 V volt.
BC107
+24 volt
470/40
470/40
10k
24
100/25
DER C.L.78.
-20 dB input F.E.T. inregelen op 24 dB gain met VR I
0 dB input met max compressie VU meter op 0 VU glem (20dB)



Bypass
input.
47kB
0.1
33k
1M
E300
1M
1k
10/16
VR I 22k
470k
0.1
470k
741
22k
1k
47/16
47/16
10kA
10kA
10k
820Ω
2m2
47/16
1m
1uF
0A 90
0A 90
22k
47/16
82k
470k
47/16
BC107
1k8
1N4148
VU.
Bypass
output.
18-24 V~ volt.
BC107
+24 volt
470/40
470/40
24
100/25
DER C.L.
-20 dB input. F.E.T. inregelen op 24 dB gain met VR I
0 dB input. met max. compressie VU meter op 0 VU