

"MONO COMPRESSOR"

USER MANUAL

DNR



manufacturer of: recording - broadcast - p.a. - mixing desks - signal processors

COMPRESSOR/LIMITER manual

- * Set the ratio to 1:1
turn the release knob fully anti clockwise
set the attack switch to fast
set the input control to 0
set the output control to 0
set both on switch and link switch in the up position
- * Connect the input of the compressor to the signal to be compressed e.g. the output of a mixer. make sure that there is enough signal present to activate the compressor (a low impedance mic produces too little signal)
- * The output level and impedance is capable of feeding any available equipment. An ideal place for inserting a compressor is the insertion point of a mixing desk. In the by-pass position the compressor is completely out of circuit and has no influence whatsoever upon the through going signal.
- * The minimum signal strength necessary for 6 dB compression is -20dB
- * Push the on switch and slightly correct the in/output controls so that no difference in signal level is heard whether the unit is in or out of circuit.
- * Now turn the ratio control clockwise until the desired compression is achieved. If there is insufficient compression the input control must be turned up and the output control down by a corresponding amount.
- * If you wish to use the compressor as a limiter set the ratio control at 20(1:20) and the input control so that the leds only light on peaks. Then set the output control so that no amplification occurs when the on switch is in or out.
- * The settings of the attack switch and release control are depending upon frequency content of the signal being treated. Fast peaks in percussion need a fast attack time while using a medium to slow attack will give a signal punch.
- * For stereo compression it is necessary to use two compressors in order to prevent left/right balance shifts.
Plug a jack (mono) lead in both link jack sockets and push the stereo link switch in both compressors. Then set the ratio, attack, release and in/output controls on both compressors to corresponding positions. The compression in channel 1 will bring about an equal compression in the other channel through which balance discrepancies can be overcome. Note! the total release time is the sum of the two individual release settings.
- * The link coupling can also be used for "voice ducking". By controlling the music compressor from the vocal compressor, the music signal is attenuated by vocal signals.

We hope to have given you a good start to handle your overload problems with this very musical sounding compressor/limiter.

NOTE!

READ THE SAFETY INSTRUCTIONS VERY CAREFULLY ON THE LAST PAGE OR ON THE SEPARATE SHEET .



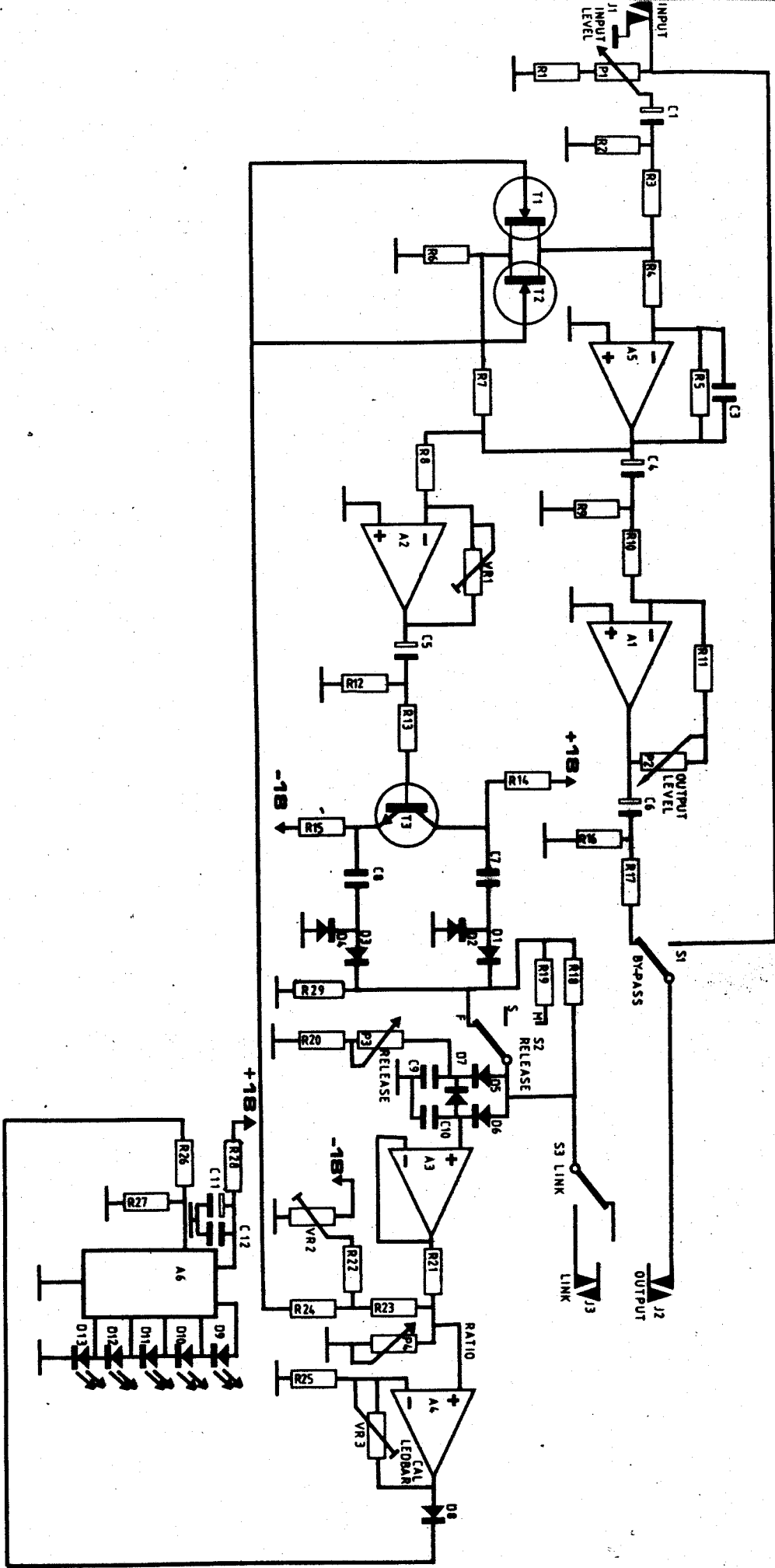


mixing consoles

COMPRESSOR/ LIMITER

Service Manual

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COMP/LIM 5

0501

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----- == ELECTRONICA B.V. -----

produktie en ontwikkeling van
geluidsmengpanelen en accessoires

Date: 16-10-85

R & D department

Title : COMPRESSOR/LIMITER 9.5''

PartNr	Value	Notes	ArtNr
R1	470 E	5%	0725
R2	220 k	5%	0757
R3	22 k	5%	0745
R4	2 k 2	5%	0733
R5	27 k	5%	0746
R6	100 E	5%	0717
R7	1 k 2	5%	0730
R8	4 k 7	5%	0737
R9	47 k	5%	0749
R10	1 k 8	5%	0732
R11	1 k 2	5%	0730
R12	100 k	5%	0753
R13	1 k 2	5%	0730
R14	1 k 2	5%	0730
R15	1 k 2	5%	0730
R16	47 k	5%	0749
R17	100 E	5%	0717
R18	10 k	5%	0741
R19	5 k 6	5%	0738
R20	220 k	5%	0757
R21	10 k	5%	0741
R22	39 k	5%	0748
R23	10 k	5%	0714
R24	47 k	5%	0749
R25	15 k	5%	0743
R26	47 k	5%	0749
R27	47 k	5%	0749
R28	10 E	5%	0705
R29	560 k	5%	0762
R300	1 k 8	5%	0732
C1	47/25	rad	0287
C2	----		
C3	10 p	ker	0213
C4	47/25	rad	0287
C5	47/25	rad	0287
C6	47/25	rad	0287
C7	0.47	poly (R5)	0270
C8	0.47	poly (R5)	0270
C9	0.68	poly	0242
C10	0.22	poly	0242
C11	47/25	rad	0287
C12	---		
C300	470/40	ax	0295
C301	470/40	ax	0295
C302	47/25	rad	0287
C303	47/25	rad	0287
C304	0.1/63	ker	0241
C305	0.1/63	ker	0241

D1	1N4148	sgn		0342
D2	1N4148	sgn		0342
D3	1N4148	sgn		0342
D4	1N4148	sgn		0342
D5	1N4148	sgn		0342
D6	1N4148	sgn		0342
D7	1N4148	sgn		0342
D8	1N4148	sgn		0342
D9	LED	red 5x2 mm	P	0387
D10	LED	red 5x2 mm	P	0387
D11	LED	red 5x2 mm	P	0387
D12	LED	red 5x2 mm	P	0387
D13	LED	red 5x2 mm	P	0387
D14	LED	red 5x2 mm	P	0387
D300	1N4148	sgn		0342
D301	1N4148	sgn		0342
T1	2N5458 gepaard	FET switch	P	0337
T2	2N5458 gepaard	FET switch	P	0337
T3	BC 546	NPN		0328
A1-4	TL 074	biFET opamp		0305
A5	NE 5534	low noise opamp		0306
A6	uA 267	5 segm. LEDdr.		0312
IC300	7818	pos.reg.		0322
IC301	7918	neg.reg.		0323
P1	47 k B	pot12.5	P	0887
P2	100 k B	pot12.5	P	0890
P3	4 M 7 A	pot12.5	P	0894
P4	10 k B	pot12.5	P	0895
VR1	220 k	instel m		0149
VR2	22 k	instel 10sl m		0166
VR3	220 k	instel m		0149
S1	Fox 2xom		P	0400
S2	8020 SM	toggle pri		0411
S3	Fox 2xom		P	0400
S300	115/230	print switch		0083
J1	Cliff jack	break plas.		0432
J2	Cliff jack	break plas.		0432
J3	Cliff jack	break plas.		0432
J300	MOLEX 220 V	2 pins header		0448
TR300	trafo 2x18V	print 3VA	p	0582
B300	B80C1000	brugcel		0345
FS300	63 mA slow	fuse # holder	0693	0675

(de index P betekent gemonteerd door de produktie, intern of extern.)

(the index P means that this article is mounted by the production department.)

COMPRESSOR/LIMITER

Spanning meten + en - 18V op midden poot IL 074
op poot 4 + 18V
op poot 11 - 18V

Signaal aan de input 1 kHz 0dB.
Comp. in bypass aan output 0dB (1kHz).
Outputpotmeter instellen op min.
Inputpotmeter instellen op 0.
Attack schakelaar op fast.
Release min
Ratio 1:1

1. On-schakelaar indrukken uitgang moet dan : -22,5 dBm zijn.
De looper van potmeter is dan -20dB.
2. De Bias inregelen (VR2) (10 slag potmeter) tot de output
0,25dB daalt.
Ratio op maximum.
Treshold inregelen tot output (VR1) 1dB daalt.
3. Ratio op min.

Ledbar inregelen.
Input naar maximum.
Dan outputregelaar terugdraaien zodat de output weer 0dB is.
Dan de ratio opdraaien tot de output 10dB daalt.
De ledbar inregelen (VR3) zodat de -10dB led net gaat branden.

Conformity statement according to ISO/IEC Nr. 22 and EN 45014

Name Manufacturer
Addres manufacturer

D&R Electronica Weesp b.v.
Rijkade 15B,
1382 GS Weesp,
The Netherlands

declares that this product

Name product

COMPRESSOR/LIMITER

Modelnumber
Produktoptions

n.a.
All

passed the following product specifications:

Security **EN 60950: 1988 +A1, A2**

EMC: **CISPR-22: 1985 / EN 55022: 1988 class B (*)**
 EN 50082-1: 1992
 IEC 801-2:1991 / prEN 55024-2:1992 - 3kV CD, 8kV AD
 IEC 801-3:1984 / prEN 55024-3:1991 - 3 V/m
 IEC 801-4:1988 / prEN 55024-4:1992 - 0.5kV signalcables,
 1 kV powercables.

Extra information:

The product passed the specifications of the following regulations;

Low voltage 73 / 23 / EEG
EMC-regulations 89 / 336 / EEG.

(*) The product is tested in a normal users environment.

