"NOISE GATE"

USER MANUAL





NOISE GATE manual

The noise gate is a device for the suppression or eliminating of background noise, interference, etc. At the same time this gate can be keyed by an external audio signal which is fed into the key input. The gating is then dependent of the external signal connected to the key input.

Many additional possibilities will become clear by using the unit.

Function of the controls.

- * At the right hand side of the unit is a red led which lights when the gate shuts down. This led goes off when the gate opens.
- * The attenuation knob controls the amount of background attenuation when the gate is closed(0 to -60 dB)
- * The release knob sets the moment the gate closes.
- * The attack knob sets the speed of opening the gate.
- * The threshold control determines the level at which the gate opens and closes.
- * The key button disconnects the side chain from the input of the gate to an extra jack input on the back. It is now possible to activate the gate from another source.
- * The on pushbutton connects the input directly to the output, while still driving the side chain of the gate.

SETTING UP PROCEDURE

Connect a signal to the input jack and feed your equipment from the output jack. Turn all the controls fully anticlockwise and set the key and on pushbuttons to their up positions.

Now turn the threshold control slowly clockwise untill you hear the signal. Adjust the threshold very carefully so there is no difference between the gated and non-gated

sound. To open the gate longer turn up the release control.

The setting of the attack control will be dependant upon the dynamic characteristics of the signal (drums do need a faster attack than bassguitars).

NOTE!

READ THE SAFETY INSTRUCTIONS VERY CAREFULLY ON THE BACK PAGE!

PRODUCT SAFETY

This product is manufactured with the highest standards and is double checked in our quality control department for reliability in the "HIGH VOLTAGE" section.

CAUTION

Never remove any panels, or open this equipment. No user servicable parts inside.

Equipment power supply must be grounded at all times.

Only use this product as described, in user manual or brochure. Do not operate this equipment in high humidity or expose it to water or other liquids.

Check the AC power supply cable to assure secure contact. Have your equipment checked yearly by a qualified dealer service center.

Hazardous electrical shock can be avoided by carefully following the above rules.

EXTRA CAUTION FOR LIVE SOUND

Ground all equipment using the ground pin in the AC power supply cable. Never remove this pin. Ground loops should be eliminated only by use of isolation transformers for all inputs and outputs. Replace any blown fuse with the same type and rating only after equipment has been disconnected from AC power. If problem persists, return equipment to qualified service technician

PLEASE READ THE FOLLOWING IN-FORMATION YERY CAREFULLY.

Especially in sound equipment on stage the following information is essential to know.

An electrical shock is caused by voltage and current, actually it is the current that causes the shock.

In practise the higher the voltage the higher the current will be and the higher the shock.

But there is another thing to consider and it is resistance. When the resistance in Ohms is high between two poles, the current will be low and vica versa.

All three of these; voltage, current. and resistance are important in determining the effect of an electrical shock.

However, the severity of a shock primarily determined by the amount of current flowing through a person.

A person can feel a shock because the muscles in a body respond to electrical current and because the heart is a muscle it can affect, when the current is high enough. Current can also be fatal when it causes the chest muscles to contract and stop breathing. At what potential is current dangereous.

Well the first feeling of current is a tingle at 0.001 Amp of current. The current between 0.1 Amp and 0.2 Amp is fatal.

Imagine that your home fuses of 20 Amp can handle 200 times more current than is necessary to kill. How does resistance affect the shock a person feels. A typical resistance between one hand to the other in "dry" condition could well over 100,000 Ohm.

If you are playing on stage your body is perspiring extensively and your body resistance is lowered by more than 50%. This is a situation in which current can easily flow.

Current will flow when there is a difference in ground potential between equipment on stage and in the P.A. system. Please do check if there is any potential between the housing of the mikes and the guitarsynth amps, which will be linked by your body on stage. Imagine, a guitar in your hand and your lips close to the mike! A ground potential difference of above 10 volts is not unusual, in improperly wired buildings it can possibly be as high as 240 volts.

Allthough removing the ground wire sometimes cures a system hum, it will create a very hazar-deous situation for the performing musician.

Always earth all your equipment by the grounding pin in your mains plug.

Hum loops should be only cured by propr wiring and isolation input/output transformers.

Replace fuses always with the same type and rating after the equipment has been turned off and unpluseed.

If the fuse blows again you have an equipment failure, do not use it again and return it to your dealer for repair.

And last but not least be carefull not to touch a person being shocked as you, yourself could also be shocked.

Once removed from the shock, have someone send for medical help inmediately

Aways keep the above mentioned information in mind when using electrically powered equipment.

D&R ELECTRONICA B.V. WEESP

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

Name Manufacturer

D&R Electronica Weesp b.v.

Addres manufacturer

Rijnkade 15B, 1382 GS Weesp, The Netherlands

declares that this product

Name product

Noise gate

Modelnumber Produktoptions

n.a. Ali

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.

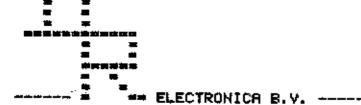


"NOISE GATE" SERVICE MANUAL



R 300 + D302 ON P.C.B. NR.8

NOISE GATE 9.5"



produktie en ontwikkeling van geluidsmengpanelen en accessoires

Date: 28-10-1986

R & D

department

PARTLIST : NOISE GATE 9.5"

print index: 8

PantNn	Value	Notes	Arthr
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D1	100 1		
R1	100 k	5%	075 3
R2 R3	100 k	5%	9753
R4	22 k	5%	0745
R5	2 k 2	5%	0733
R6	22 k	5%	0745
R7	22 k 2 k 2	5X	8745
R8	22 k	5%	0739
R9	1 k	5%	6745
RIO	100 K	5% 5%	0729
R11	198 E	5%	0753
R12	47 k	5% 5%	9717 9740
R13	10 k	5%	0749
R14	1 k 8	5%	9741 9793
R15		5%	0732
R16	10 k 100 E	5%	0741 0717
R17	1 k 2	5%	0730
R18	10 k	5%	
R19	100 E	5% 5%	0741 0717
R20	1 k 2	5%	9730
R21	47 k	5%	9736 9749
R22	10 k	5%	9741
R23	22 k	5×	0745
R24	22 k	5%	0745
R25	1 k	5%	072 9
R26	iô k	5%	0741
R27	10 k	5%	0741
R28			6141
R29	10 k	5x	9741
R30	iž k	5%	0742
R31	10 k	5%	0741
R32		5 7•	0.41
R33	1 k	5%	0729
R34	5 k 6	5%	0738
R35	568 k	5%	0762
R36	10 k	5%	0741
R37	180 E	5%	9729
R38	1 M	5%	9765
R39	6 k e	5%	9739
R40	33 k	5%	8747
R41	180 E	5%	0720
R42	10 E	5%	0705
R43	1 k 0	5%	0729
R44	33 k	5%	9747
R45	1 k 5	5%	0731
R300	3 k 3	5%	Ø73 5

C1	47/25	rad	0287
C2	6 p 8	ker	8211
Č3	6 p 8	ker	0211
C4	47/25	rad	6287
C5	47/25	rad	0287
C6	920 p	ker	9235
C7	47/25	r-aud	0287
			-
CB	47/25	rad	0297
C9	820 p	ker	0235
C19			
C11			
C12	0.022	poly	025 6
C13	0.1	po ly	9261
C14	47/25	rad	0287
C15	0.47	po ly	0266
C16	47/25	rad	0287
C300	470/40	ax	0295
C301	470/40	ax	0295
C302	47/25		
		red	0287
C303	47/25	rad	9297
C304	0.1/63	ker	0241
C305	0.1/63	ker	0241
D1	LEB	5x2mm red	9399
02	184148	sgn	0342
03	1N4148	sgn	0342
D4	8 Y 2	zener	9352
D5	1N4148	sen	0342
D300	1N4148		0342
		sgn 	
D301	1N4148	#gn	0342
D302	LED	5x2mm red	03 9 0
<u>Ti</u>	BC 546	HPH	0328
T 2	BC 546	NPN	0 328
T3	BC 416/560	PNP	9327
T4	BC 416/560	PNP	0327
T5	2N5638	FET swch	6338
т6	2N5638	FET swch	0338
T7	2N5638	FET swch	Ø338
• •	Eliococ	,	5346
61_4	TL 074	LIPPT AMERICA	0305
A1-4		bifET opamp	
R5-8	TL 074	biFET opamp	0305
IC390	7818	pos.reg.	0322
10301	7918	pos.reg.	0323
		•	
P1	10 k B	pot 12.5mm	08 84
P2	47 k B	pot 12.5mm	9897
P3 .	4 M 7 A	pot 12.5mm	0894
P4	100 k B	pot 12.5mm	0888
, ,		1.01.1	-
\$1	2 × 2 switch	FOX	8488
s 2	2 × 2 switch	FOX	0400
53 00	115/230 V	print switch	9983
J1 .	Cliff br.pl.	jack	0432
J2	Cliff br.pl.	jack	0432
J3	Cliff br.pl.	jack	8432
8300	B80C1000	bridge rect.	0345
TR300	trafo 2x18V	print	Ø582
F300	69 mA slow	fuse + holder	0693+0675
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