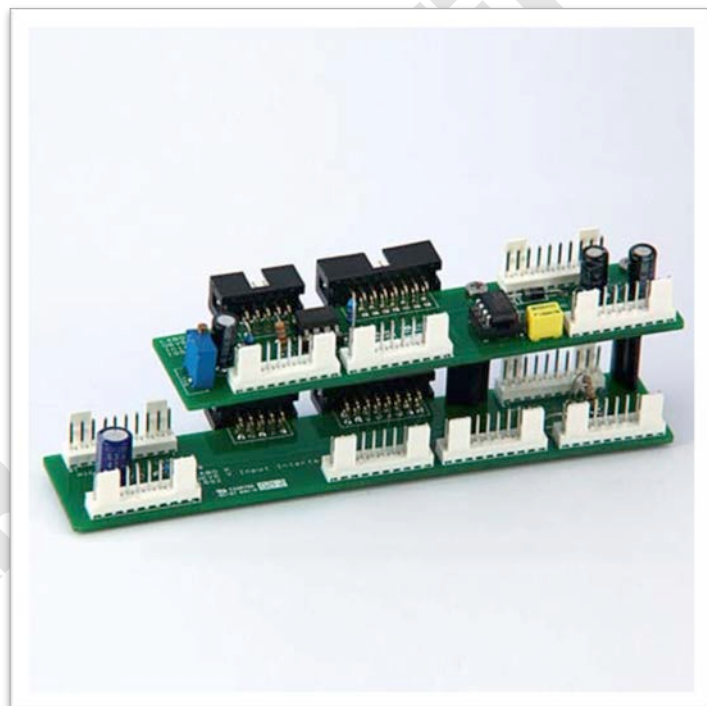


LABO ★ K EFFECTS

CONNECTION KIT FOR NEVE V SERIES PREAMP+EQUALIZER



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INTRODUCTION

This kit allows to interconnect one NEVE V series preamp module and one equalizer module to put them in a Rack.

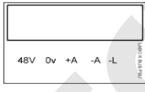
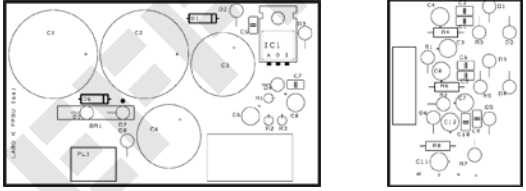
The kit also allows to connect inputs, outputs and power supply necessary for the use of the set.

The PSU bus system allows to connect up to 8 modules (4 preamp and EQ pairs) rather arranged vertically.

You just have to build the adequate ribbon.

This bus also allows to wire the side chain function of the compressors / gates.

Optional accessories

Labo★K Effects Bus PSU adapter Allows to connect the psu to the bus via 5 cables (Stuffed or PCB only)	
Labo★K Effects Neve 51/V PSU Kit Regulated PSU +48V, +16V, -16V, -15V (Kit or PCB only) <i>R-Core transformer not supplied</i>	
Labo★K Effects Mounting clip Matching NEVE 51 and V series Allow to fix module on front plate. Matching with Input & Equaliseur.	
Labo★K Effects Neve PSU Metalwork Allows to fix pcbs and heat sink. Compact module easy to fix into rack.	

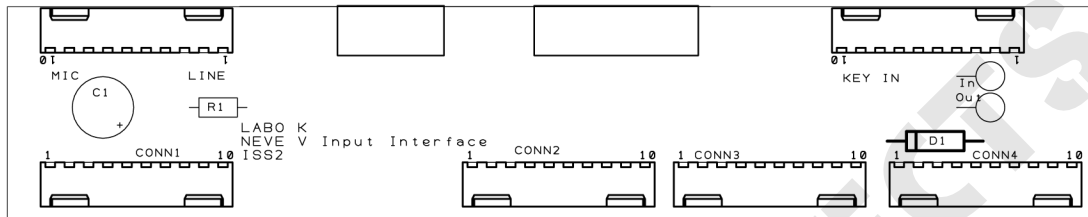


For proper operation of the unit, it is advisable to use modules in good conditions and with coupling capacitors that will have been replaced if necessary.

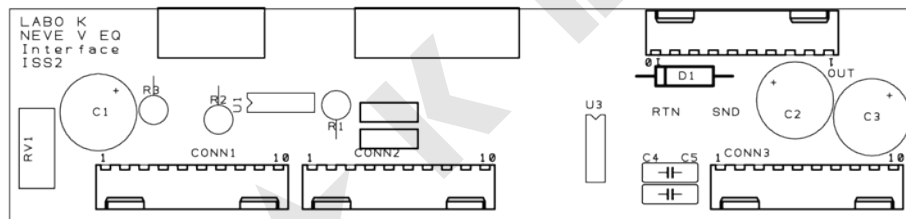
The poor condition of the capacitors can greatly affect the sound quality or even cut the signal. Similarly, one will ensure that the various switches have been cleaned using a contact cleaner spray.

KIT OVERVIEW

- 1 Interconnect board PCB 2 layers plated pads for connecting:
 - 1 Preamp/Dynamic module
 - Micro, Line and Key inputs
 - PSU Bus, Dynamic link
 - 1 Equalizer Module



- Interconnect board PCB 2 layers plated pads for connecting:
 - 1 Equalizer module
 - PSU Bus
 - 1 Preamp/Dynamic module
 - Insertion send and return
 - 1 +4db balanced output (stage fitted on the PCB)



- Connectors, components and ribbons.
 - XLR and Jack Connectors not supplied.

ASSEMBLY INSTRUCTIONS

- 1) Solder components on PCB.
- 2) Prepare interconnexion ribbons
- 3) Bind inputs and outputs connectors to your XLR or stereo Jacks.
- 4) Bind PSU bus to a regulated power supply +48v, 0V, +16V, -16V et -15V(Logic)

Note about +16V/-16V and -15v PSU:

Plan 250 mA for each module.

It is possible to use a +16V/-16V psu by connecting -16V and -15V of the ribbon as indicated on figure 1.

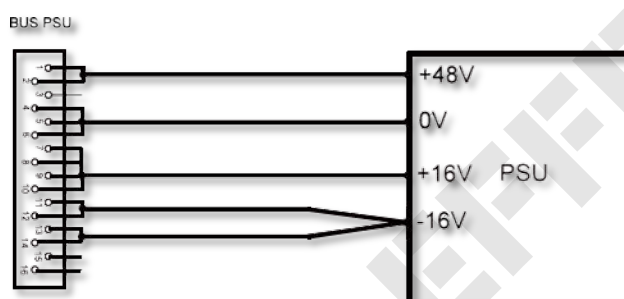


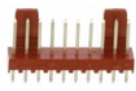
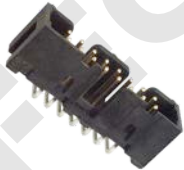
Figure 1

Adjust output level with RV1 on EQ interface board.
You can replace this trimmer by a 10K linear pot wired on front face of Rack.

The module GRP switch can be used as a Mute.

You can link dynamics modules by placing side chain jumpers as shown later.

INPUT INTERFACE BOARD PARTS LIST

Connector 1	Molex 22-27-2101-10		
Connector 2	Molex 22-27-2101-10		
Connector 3	Molex 22-27-2101-10		
Connector 4	Molex 22-27-2101-10		
Connector 5	Molex 22-27-2101-10		
Connector 6	Molex 22-27-2101-10		
Connector 7	3M 2510-6002		
Connector 8	3M 2516-6002		
D1	1N4002		
R1	100R		
C1	C1 47μF/63v		
R in (side chain)	0R or strap		
R out (side chain)	0R or strap		

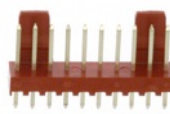
All resistors are 1/4w metal film 1%

INPUT INTERFACE BOARD CONNECTORS PINOUT

MIC /LINE connector	
1	Line in Lo
2	Line In Hi
3	Line in Screen
4	
5	
6	
7	
8	Mic in Screen
9	Mic in Hi
10	Mic in Lo

Key Connector	
1	Expand meter
2	Compress meter
3	Sig indicateur output
4	
5	
6	
7	
8	Key in Screen
9	Key in Lo
10	Key in Hi

EQ INTERFACE BOARD PARTS LIST

Connector 1	Molex 22-27-2101-10		
Connector 2	Molex 22-27-2101-10		
Connector 3	Molex 22-27-2101-10		
Connector 4	Molex 22-27-2101-10		
Connector 6	2516-6002		
Connector 5	AWLP-10		
R1	18K		
R2	2K7		
R3	1K2		
RV1 Output adjust	10KA		
C1	100µF/10v		
C2	10µF/50v NP		
C3	10µF/50v NP		
C4	100n		
C5	100n		
D1	1N4002		
U01	NE5534		
U02	THAT 1646		
U01 and U02 IC Sockets	Dil 8 Ic sockets		

All resistors are 1/4w metal film 1%

Note

It is possible to replace RV1 by a 10KA Pot (not supplied) to have a level command on front. If you do not wish to use the Insertion function of the module, it is possible to use the insert send of this one as +4dB balanced output. In that case only connectors and diode D1 must be implanted.

EQ INTERFACE BOARD OUT CONNECTORS PINOUT

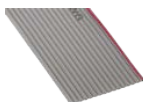
Standard version		Without insertion version	
1	Out Hi	1	
2	Out Lo	2	
3	Screen	3	
4		4	
5	Insert Snd screen	5	Out screen
6	Insert Snd Hi	6	Out Hi
7	Insert Snd Lo	7	Out Lo
8	Insert Rtn screen	8	
9	Insert Rtn Lo	9	
10	Insert Rtn Hi	10	

PSU BUS PINOUT

1	+48
2	+48
3	NC
4	0V
5	0V
6	0V
7	+16V
8	+16V
9	+16V
10	+16V
11	-15V
12	-15V
13	-16V
14	-16V
15	Loop Out
16	Loop In

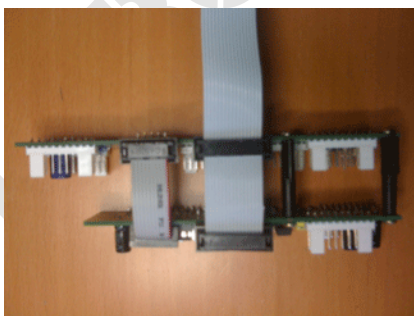
INTERCONNECTIONS PARTS LIST

Psu Bus

Input interface board	AWP 16	
Equalizer interface board	AWP 16	
Power supply	AWP 16	
16 way ribbon	AGW28 10 16	

Dynamics/Equalizer interconnexion

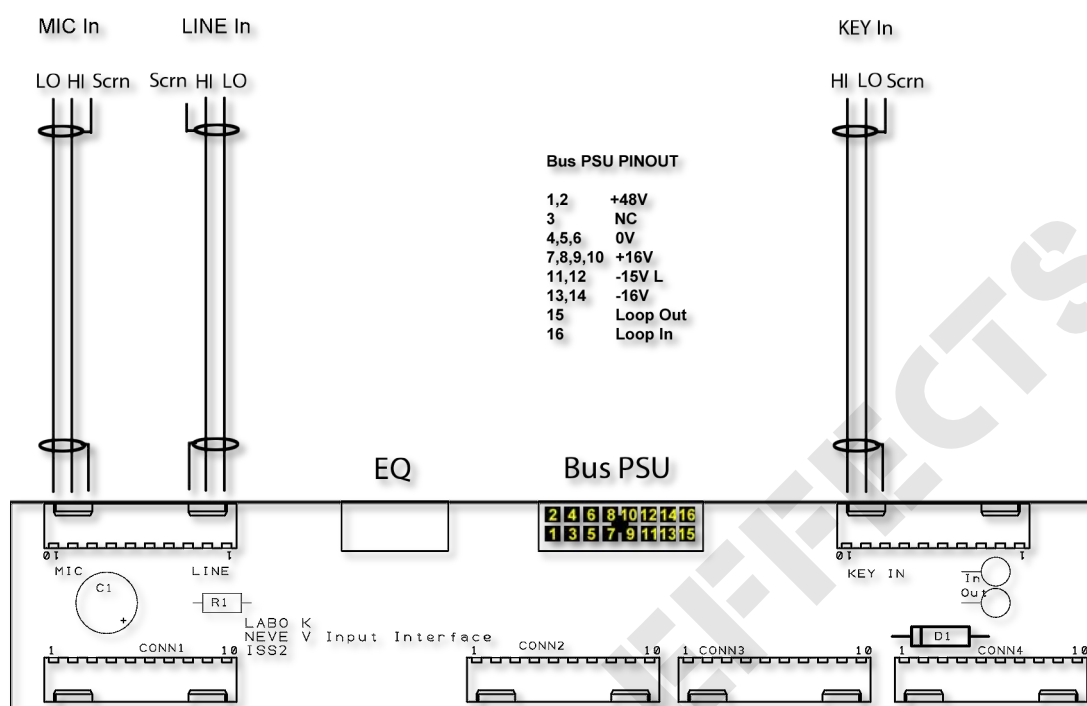
Input interface board	AWP 10	
Equalizer interface board	AWLP-10	
10 way ribbon	AGW28 10 10	
		

	
It is planned to be able to use 2 small NEVE columns to assemble 2 boards	

Inputs & outputs connections

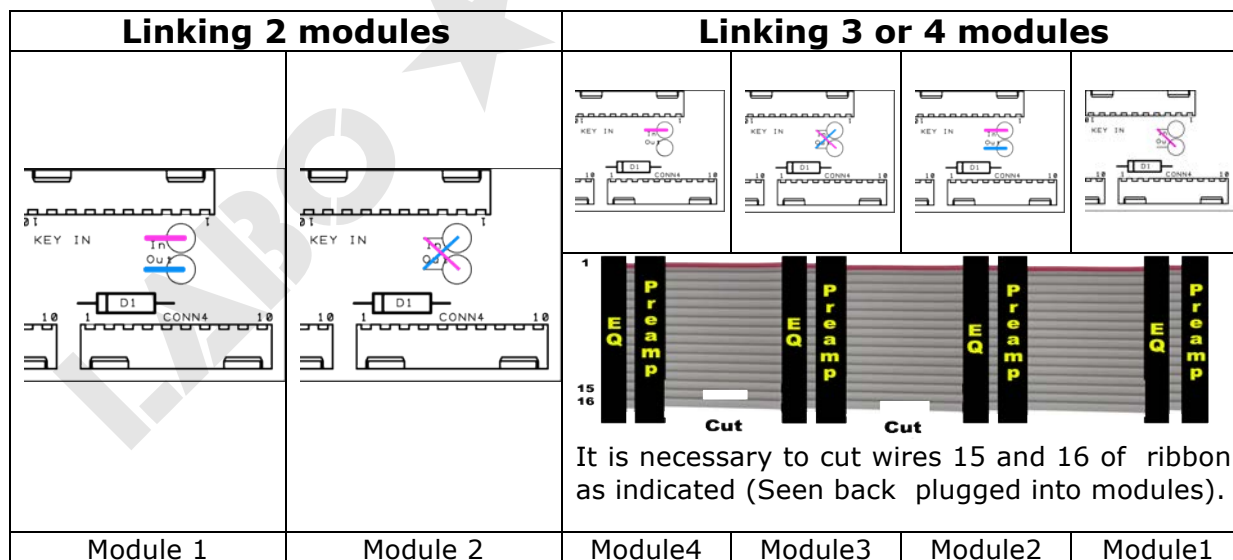
Mic/Line connector Molex 22-01-2105 Key connector Molex 22-01-2105 Out connector Molex 22-01-2105		
18 crimp terminals Molex 08-50-0005		
		Sample wiring

INPUT INTERFACE BOARD WIRING



SIDE CHAIN FUNCTION

To activate side chain function of dynamics it is necessary to implant straps as indicated.



EQ INTERFACE BOARD WIRING

Standard version

Bind A&B and D&F as indicated on figure 2.

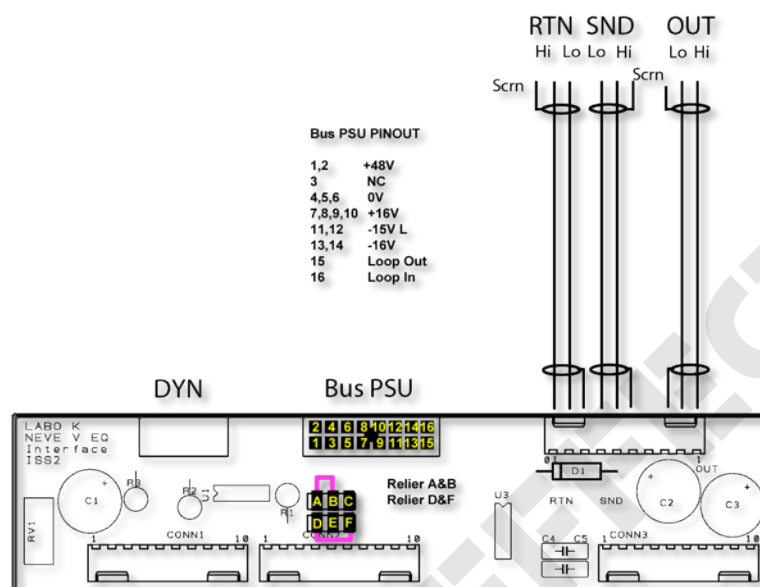


Figure 2

Without insertion version.

Bind A&C as indicated on figure 3.

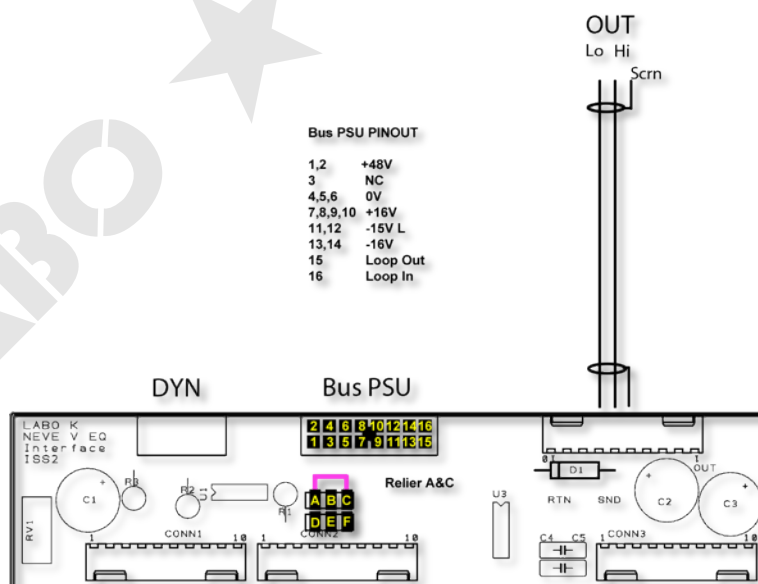


Figure 3

Legal notice:

Labo★K Effect shall not be responsible and disclaims all liability for any damage (whether direct or consequential) that may result from a wrong use of the kit by the user.