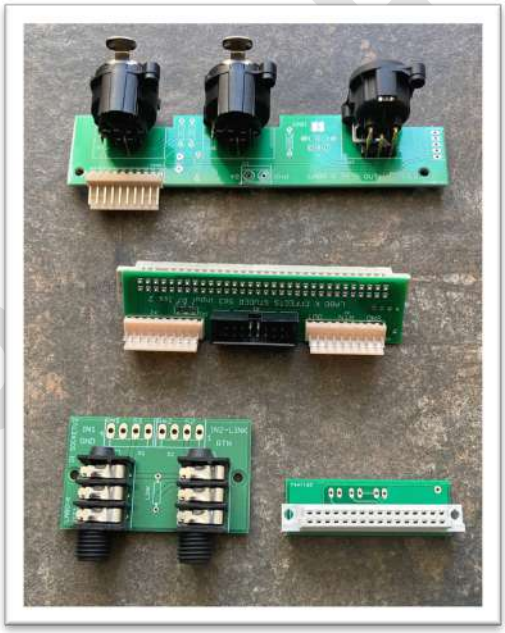
LABO ⋆ K EFFECTS

CONNECTION KIT FOR STUDER 900 PREAMPLI+EQUALISER+MASTER
ISS 2

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INTRODUCTION

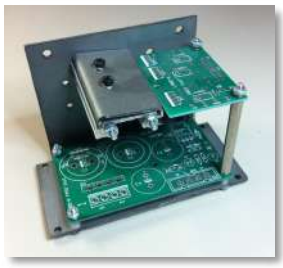
This kit makes it easy to connect a **Studer 963** preamp and equalizer module or a Master module for rack mounting.

It allows for easy connection of:

- audio inputs,
- audio outputs,
- as well as the power supply required for the system to operate.

This interface simplifies the process of mounting these modules in a rack, while ensuring a reliable and clean connection.

Optional accessories

Labo★K Effects Studer 963 PSU Kit Regulated PSU +48V, +/-15V, -6V (Kit or PCB + Metalwork only) *Transformer 2x15V not supplied* **Studer 963 PCB+METALWORK** Allows to fix the pcbs and the radiator of the power supply. The compact unit can thus be easily fixed in the rack.	 



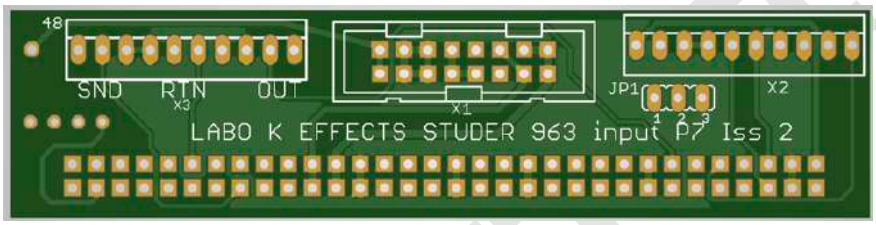
For proper operation of the unit, it is advisable to use modules in good conditions and with coupling capacitors that will have been replaced if necessary.
The poor condition of the capacitors can greatly affect the sound quality or even cut the signal. Similary, one will ensure that the various switches have been cleaned using a contact cleaner spray.

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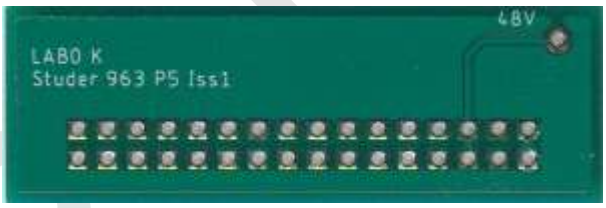
KIT OVERVIEW

- **1 Interconnect board PCB 2 layers plated pads for connecting:**
- **Studer P7 connector (In/out and PSU)**

  - o 1 microphone input
  - o 1 line input
  - o 1 output
  - o 1 insert (X3 connector)
  - o 1 power supply: +/-15V, -6V, and 48V (X1 connector)

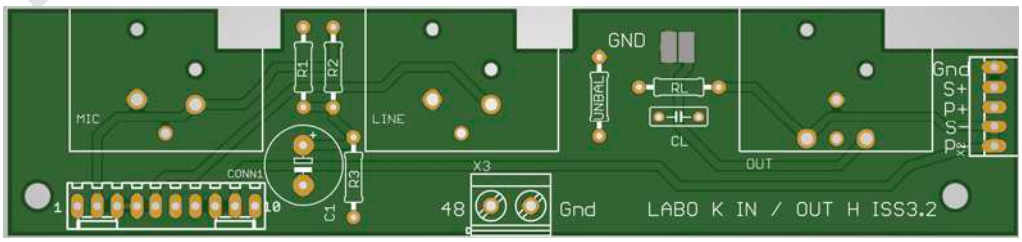


- **1 Interconnect board PCB 2 layers plated pads for connecting:**
- **Studer P5 connector (48V)**
  - 48V PSU



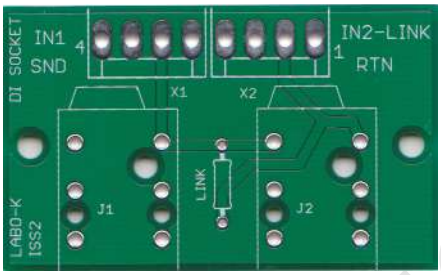
  - **1 Interconnect board PCB 2 layers plated pads for connecting:**
  - The input/output card (P7)
  - XLR inputs and outputs.

-



- **Connectors, components**

- **1 double-sided PCB with plated holes for connecting:**
    - Send and Return insert connectors



The Send and Return insert connectors are wired in a half-normaled configuration.

In this configuration:

• The signal is normally routed internally from the Send to the Return

• Inserting a jack into the Return breaks this internal connection and allows you to insert external equipment

Inserting a jack into the Send allows you to tap into the signal without interrupting the internal path

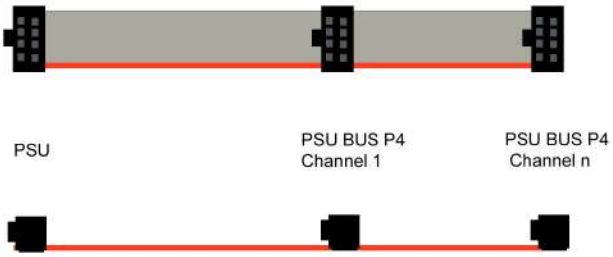
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ASSEMBLY INSTRUCTIONS

1) Solder components on the PCB.
2) Prepare interconnection ribbons
3) Prepare the audio wires
4) Fix the in / Out card
5) Connect the cards to connectors p5 and P7.
6) Connect PSU BUS to a power supply +48v, 0V, +15V/-15V and -6V.
7) Connect the P7 and P5 cards using a cable.

BUILDING THE RIBBONS CABLES

BUS PSU



STUDER 963P7 INTERFACE BOARD PART LIST

Connector X2	Molex 22-27-2101-10	
Connector X3	Molex 22-27-2101-6	
Connector 1	Din 41612	
Connecteur X1	IDC 2516-6002	

CONNECTORS X2 AND X3 PINOUT(INPUT MODULE)

1	Mic in Lo	1	Snd Lo
2	Mic in Hi	2	Snd Hi
3	GND	3	GND
4	GND	4	GND
5	Line In Hi	5	Rtn Hi
6	Line In Lo	6	Rtn Lo
7	NC	7	
8	GND	8	
9	Tape in Hi	9	Out Hi
10	Tape in Lo	10	Out Lo

PINOUT FOR CONNECTORS X2 AND X3(MASTER MODULE)

1	Master out Lo	1	Snd Lo
2	Master out Hi	2	Snd Hi
3	GND	3	GND
4	GND	4	GND
5	Line In Hi	5	Rtn Hi
6	Line In Lo	6	Rtn Lo
7	Unbalanced Master In	7	
8	GND	8	
9	Tape in Hi	9	Out Hi
10	Tape in Lo	10	Out Lo

CONNECTOR X1 PINOUT (PSU)

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

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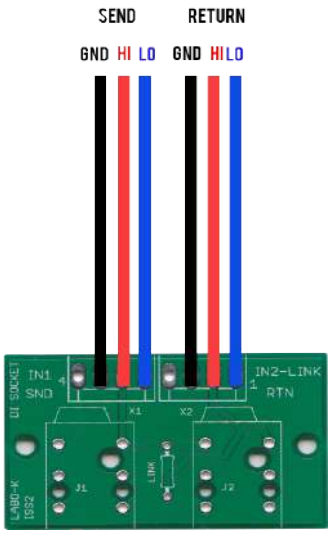
STUDER 963 P5 INTERFACE BOARD PART LIST

Connecteur 1 Din 41612	

INPUT OUTPUT BOARD COMPONENTS PART LIST

R1	(not available)
R2	(not available)
R3	(not available)
C1	(not available)
Connector 1, 2 XLR F NC3FA0 **No connector 2 (Master module)**	
Connector 3 XLR M Neutrik NC3MA0	
Connector X1 Molex 22-27-2101-10	
Connector x1 Terminal 2	(not available)
XLR screws	6

Insert wiring



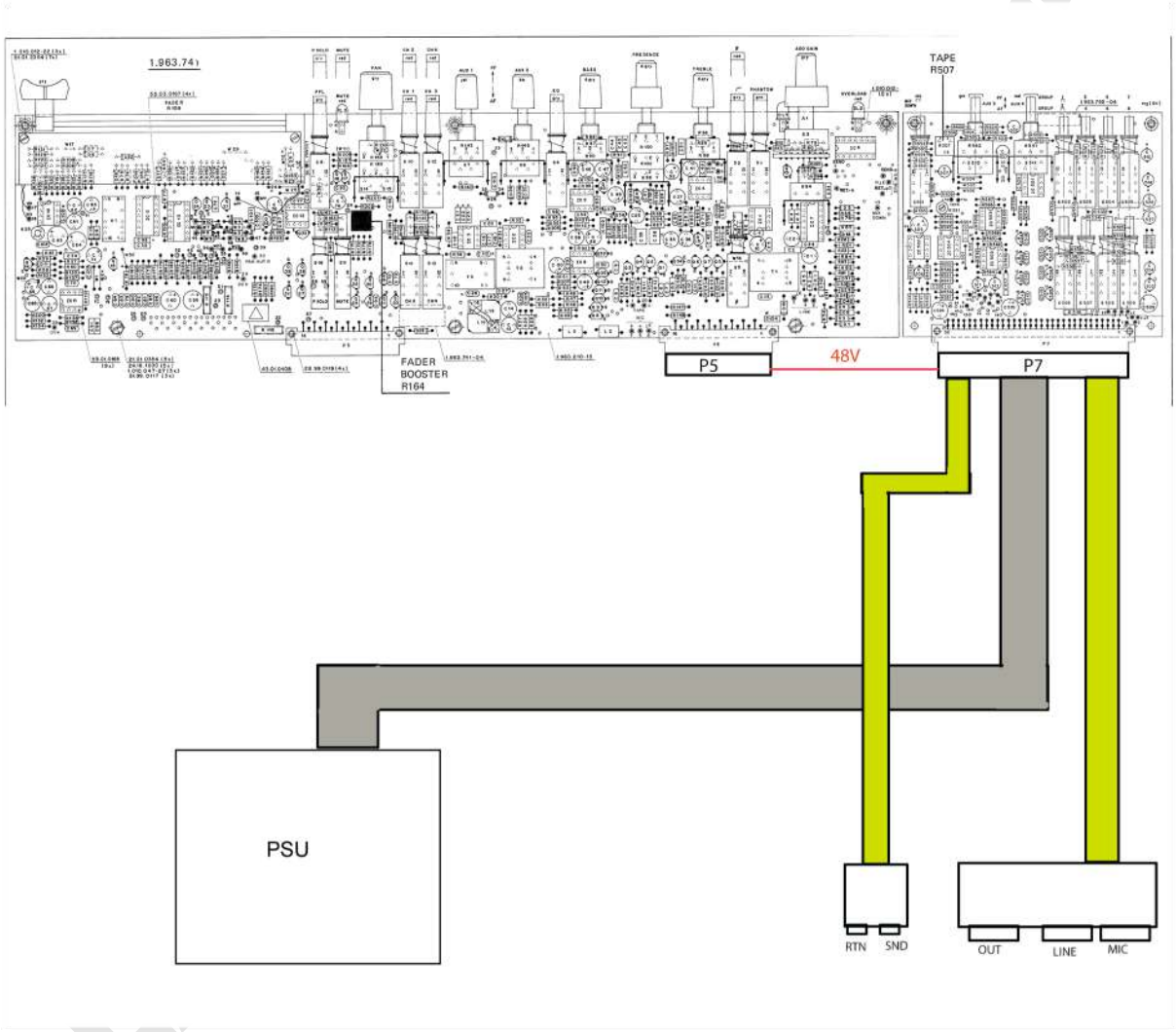
INPUT INTERFACE BOARD PINOUT

Input / Output connector	
1	Mic input Lo (Mater in lo)
2	Mic input Hi (Master in Hi)
3	Mic input Screen
4	Line input Screen
5	Line input Hi
6	Line input Lo
7	
8	Output Screen
9	Out Hi
10	Out Lo

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STUDER 963 KIT WIRING

The connections between the P7 board and the I/O board are made using shielded cables soldered to the Molex connectors pins. It is of course possible to crimp these cables onto female Molex connectors.



CHAINING INPUT AND MASTER MODULES

General Principle

- Pin 7 of X2 (P7):
  - On the Input module → unbalanced output
  - On the Master module → unbalanced input

Input Module (Signal Transmission)

On card P7:

1) Selecting the Signal Sampling Point

AF (After Fader) → signal after the fader

- **PF (Pre Fader)** → signal before the fader
- Select using a jumper to be set to AF or PF

2) Alternative mode: Output controlled by the Group 1 button

- If you want the output to be active when the GROUP button is pressed:
  - Connect pins 1 and 3 of JP1
  - **Do not install** the AF/PF jumpers

Important: These two modes are mutually exclusive (AF/PF or Group 1)

Master Module (Signal Reception)

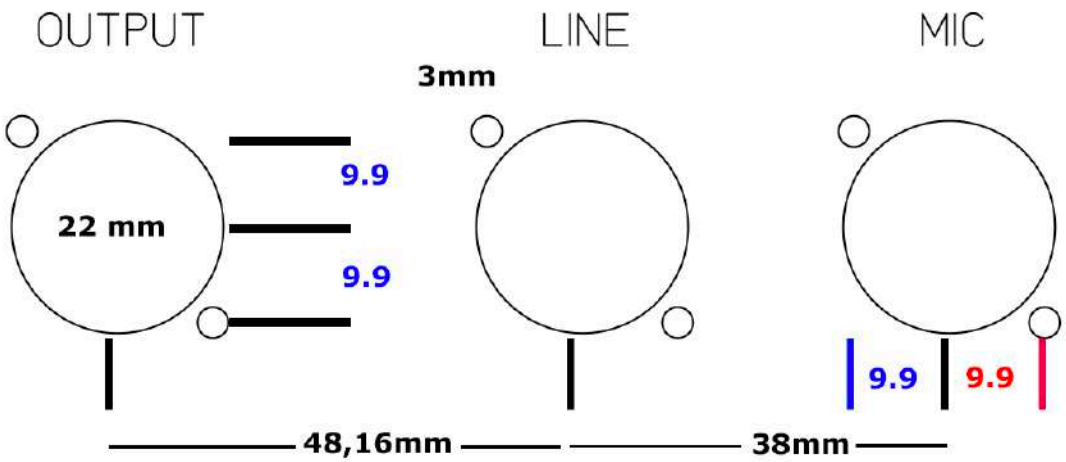
On card P7:

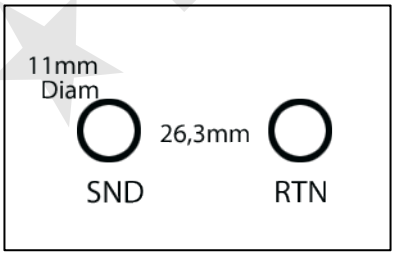
- Pin 7 of X2 becomes the Master Module's asymmetric input (signal reception)
- Configuration:
  Connect pins 1 and 2 of JP1

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DRILLING TEMPLATE

External view of the rack





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Mentions légales :

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.