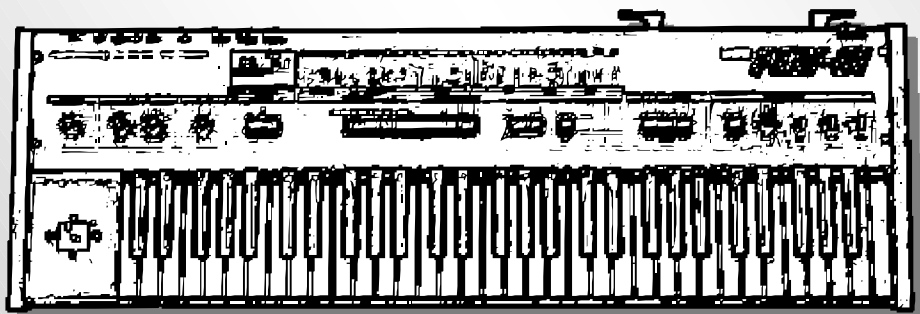


P61-KBD

MIDI Interface for KORG POLY-61 Keyboard

Model 8-435
ver. 1.0



INSTALLATION MANUAL
Rev. 2



© 2018 CHD Elektro servis



1	INTRODUCTION	3
1.1	MIDI INTERFACE KIT PARTS	3
1.2	GENERAL INFORMATION	3
2	MIDI INTERFACE INSTALLATION	3
2.1	RELEASING OF THE INSTRUMENT COVER	4
2.2	MIDI-IN SOCKET MONTAGE	4
2.3	BUNCHED CABLES MONTAGE	6
2.4	INTERFACE BOARD PLACEMENT	7
2.5	INSTRUMENT RE-ASSEMBLY	8

Document :
8435_install_rev2

Manufacturer :
CHD Elektroservis

Nad kundratkou 27, 19000 Praha 9, Czech Republic

info@chd-el.cz www.chd-el.cz



1 INTRODUCTION

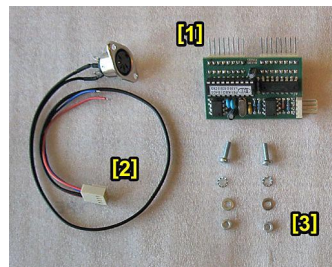
The Korg P61 Keyboard MIDI Interface enables the integration of MIDI in your P61. The instrument's keyboard can be controlled with this MIDI interface in parallel manner. The interface only receives MIDI data so it has MIDI input only.

1.1 MIDI INTERFACE KIT PARTS

The supplied MIDI interface kit contains all necessary parts, materials, and detailed installation instructions. The kit contains:

1. MIDI interface board
2. Bunched cables with MIDI socket
3. All necessary coupling elements (screws, nuts, washers)
4. Owner's and Installation manuals in printed form

Parts of the MIDI interface kit



1.2 GENERAL INFORMATION

The installation of all interface components is very easy. If you follow the instruction from this manual there will be no major problems during the installation procedure. The cover of the instrument will not be markedly damaged during the installation. The physical appearance of the vintage instrument remains nearly the same as before the installation. If necessary, the interface can be removed and the instrument restored back to original appearance. All original features of the Korg Poly-61 are kept. The instrument can be used the same way as before the retrofitting.

The following tools are necessary for the installation: Phillips screwdriver, driller, drills 3,2 and 16 mm, smaller rasp, pliers, soldering iron (a low heat iron and soldering paste).



Attention ! Disconnect the instrument from the mains prior to the installation. Otherwise, there is a risk of the electric shock!



Attention! Observe precautions for handling electrostatic discharge sensitive devices!



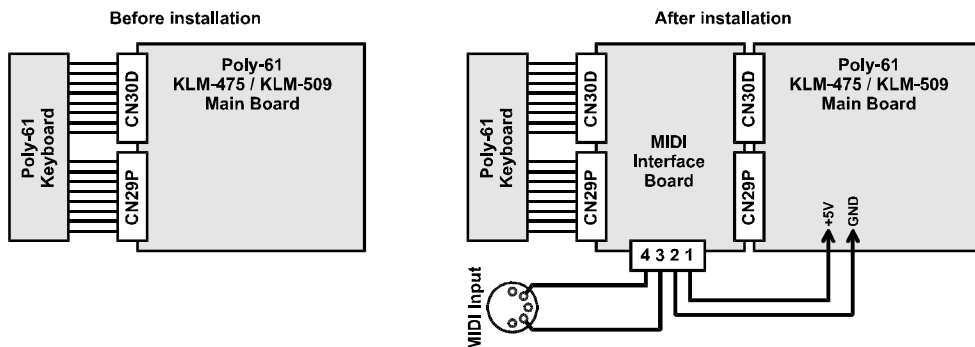
Attention! The producer is not responsible for any eventual mechanical or electrical damage of the instrument caused by the infringement of the described installation procedure or by careless manipulation during the installation of the MIDI interface!

2 MIDI INTERFACE INSTALLATION

The interface is connected to the keyboard switch matrix of the instrument in a parallel fashion (pic. 1). There are two versions of instrument's main PCB board. Older is named KLM475, newer is named KLM-509. Although some little difference is between these boards, the interface is applicable to both versions of instrument's main board.



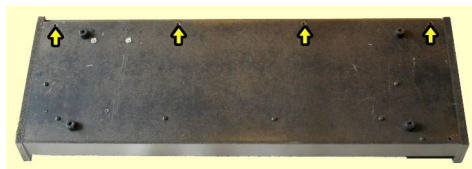
Pic. 1 - Electrical connection in the instrument



2.1 RELEASING OF THE INSTRUMENT COVER

- Unscrew the four screws from the bottom of the instrument (pic. 2.1-1) and the four screws on the front panel (pic. 2.1-2).
- Carefully open the instrument - lift off the instrument's front panel (pic. 2.1-3). Instrument's main board (KLM475 / KLM-509) is located at left side inside the instrument.

Pic. 2.1-1



Pic. 2.1-2



Pic. 2.1-3



2.2 MIDI-IN SOCKET MONTAGE

There are two possible ways to install the MIDI-IN DIN socket:

- If you do not want to mechanically damage the rear panel of the instrument, take out the MIDI cable through the slot on the left side of the keyboard for example (see pic. 2.2-1).



- It is better to place the MIDI-IN connector on the rear panel of the instrument for easier operation. It is necessary to drill three holes in the instrument panel however. The MIDI-IN connector can be installed near the jack connectors (see pic. 2.2-2). In that case, MIDI-IN connector installation procedure is as follows:

Pic. 2.2-1

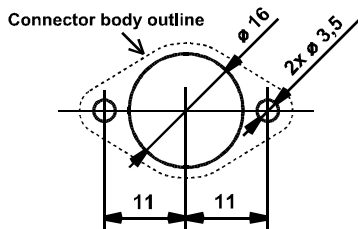


Pic. 2.2-2



- Flip the front cover over and return it to its original closed position on top of the synth.
- Drill three holes (one with 16 mm diameter and two with 3,5 mm diameter) in the rear panel (see pic. 2.2-3). Work carefully so as to not drill the parts inside the instrument (pic. 2.2-4).

Pic. 2.2-3



Pic. 2.2-4



- Clean the edge of the holes with small rasp (pic. 2.2-5). Also clean the holes from the inside after the instrument opening..
- Clean all iron sawdust and raspings from the inside of the instruments**, they can cause short circuits or serious electrical damage if left in the instrument. Please clean the instrument carefully!
- Get flat connector of bunched cables (part of the kit) through the hole in rear panel into the instrument (pic. 2.2-6).
- Insert the DIN socket into hole in rear panel (pic. 2.2-7) and fix it to the panel using screws, washers and nuts (pic. 2.2-8). All material is a part of the kit.



Pic. 2.2-5



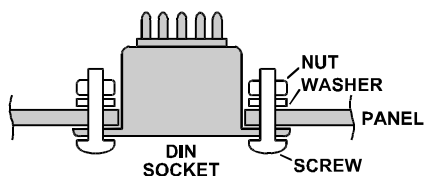
Pic. 2.2-6



Pic. 2.2-7



Pic. 2.2-8

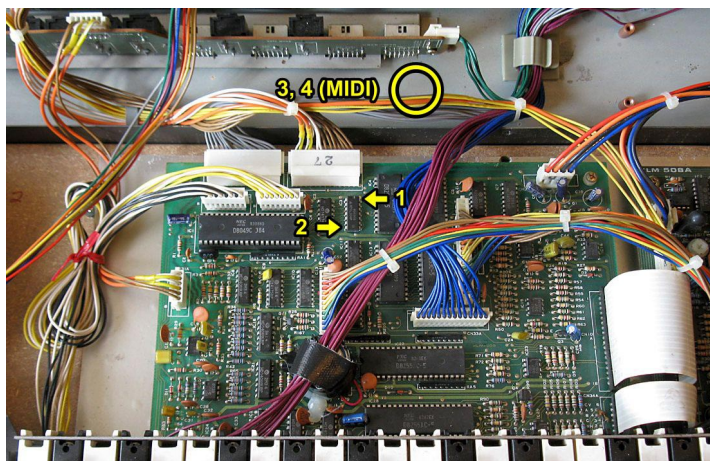


f) You may also want to label the MIDI socket ("MIDI - INPUT") using self-adhesive foil, for example (pic. 2.2-2).

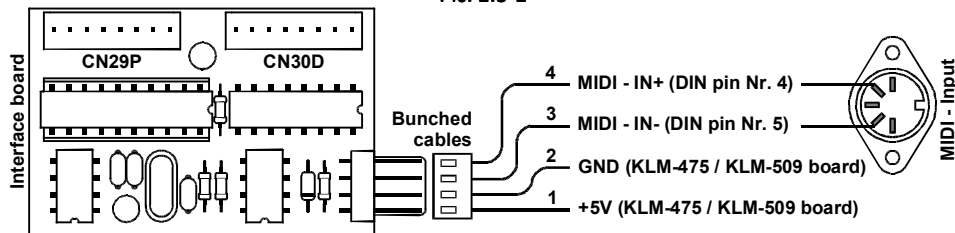
2.3 BUNCHED CABLES MONTAGE

The bunched cables (part of the kit) has a four-pin connector on one end (pic. 2.3-1). There are four terminals. Two of them (Nr. 3, Nr. 4) are already fixed to newly installed DIN - MIDI-IN connector. Next two (Nr. 1, Nr. 2) must be soldered to the instrument's KLM-475 / KLM-509 board (pic. 2.3-2).

Pic. 2.3-1

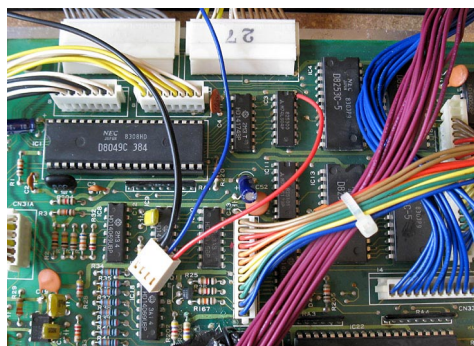


Pic. 2.3-2

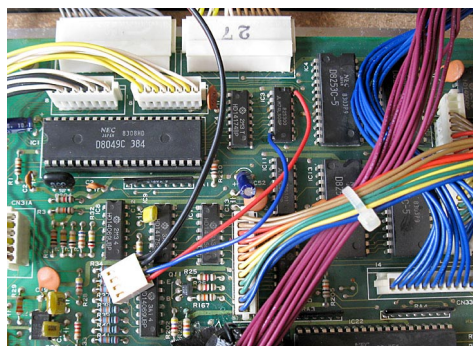


- Solder the red cable (Vcc +5V - pin Nr. 1 of interface's connector) to the power distribution +5V on the KLM-475 / KLM-509 board. The most suitable place is lead (pin) Nr. 14 of the IC3 (pic. 2.3-3).
- Solder the blue cable (GROUND - pin Nr. 2 of interface's connector) to the ground potential on the KLM-475 / KLM-509 board. The most suitable place is lead (pin) Nr. 7 of the IC3 (pic. 2.3-4).

Pic. 2.3-3



Pic. 2.3-4

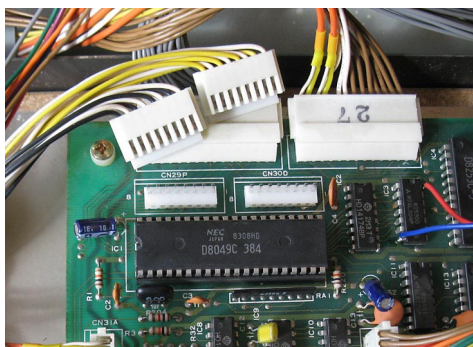


2.4 INTERFACE BOARD PLACEMENT

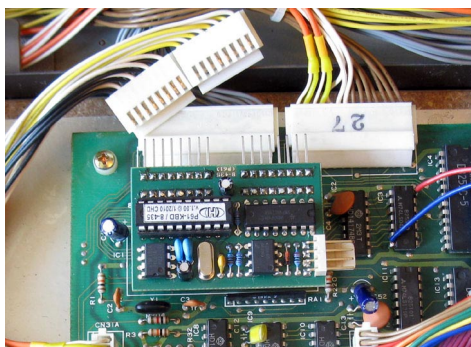
- Detach bunched cables from CN29P and CN30D connectors on KLM-475 / KLM-509 board. These cables lead from instrument's keyboard (pic. 2.4-1).
- Plug interface board onto CN29P and CN30D connectors on KLM-475 / KLM-509 board so that flat four-pin plug on interface's board is to the right (pic. 2.4-2).
- Plug the connectors of the bunched cables from the keyboard onto the plugs on the interface's board (pic. 2.4-3). Be careful, the connectors must not be rotated or exchanged. Locks of the connectors must be down. Bunched cables with black and white colored wires are left (CN29P connector) and bunched cables with yellow and white colored wires are right (CN30D connector).
- Plug the flat 4-pin connector of newly installed bunched cables (from +5V, GND and MIDI-IN socket) to the flat connector on the MIDI-In interface board (pic. 2.4-4). The connector is shaped such that it cannot be connected the wrong way - there are locks on it.



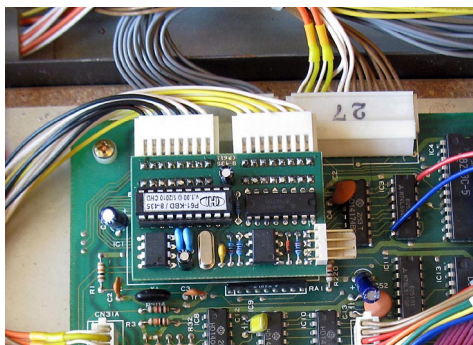
Pic. 2.4-1



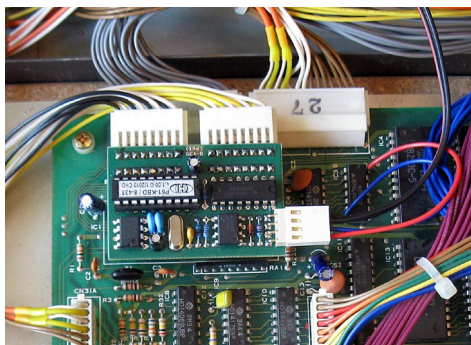
Pic. 2.4-2



Pic. 2.4-3



Pic. 2.4-4



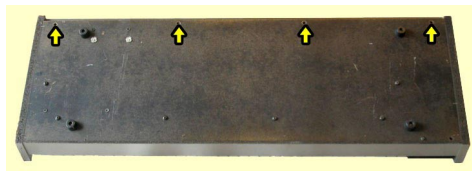
2.5 INSTRUMENT RE-ASSEMBLY

- Turn over the front panel of the instrument.
- Reattach the front panel to the sides of the instrument with four screws (pic. 2.5-1) and reattach four screws to the bottom of the cover (pic. 2.5-2). This is the reverse procedure of that described in the chapter 2.1.

Pic. 2.5-1



Pic. 2.5-2



The installation of the MIDI kit is now finished, the instrument is ready for use with MIDI. Please read the user's manual carefully before the MIDI interface usage.