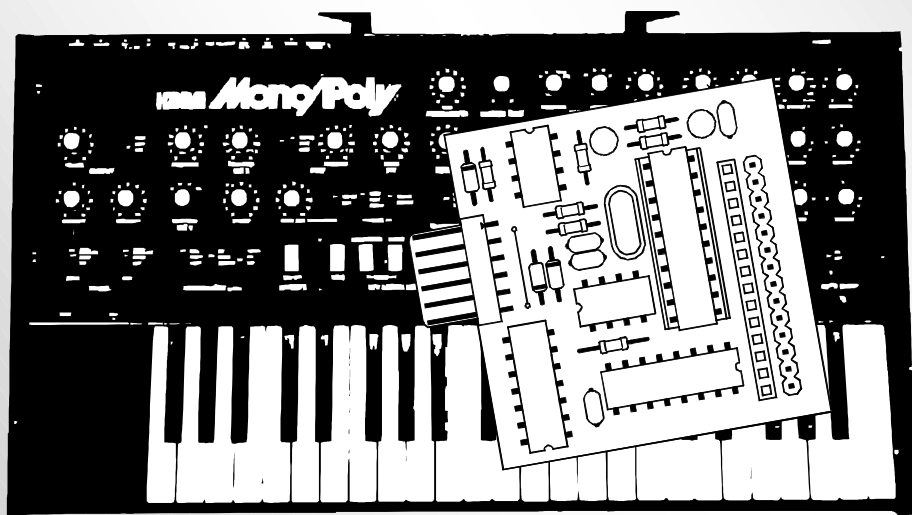


MP-KBD

MIDI Interface for KORG MONO/POLY Keyboard

Model 8-433
ver. 1.0



INSTALLATION MANUAL



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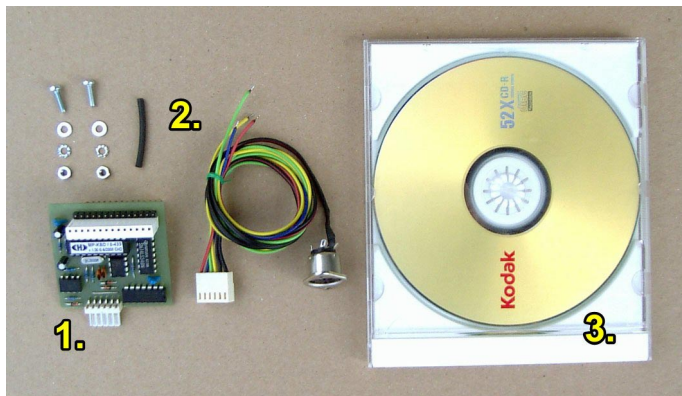
1. INTRODUCTION

Korg Mono/Poly Keyboard MIDI Interface enables the integration of your Mono/Poly to the MIDI system. The instrument's keyboard and arpeggiator speed can be controlled with this MIDI interface.

1.1. MIDI INTERFACE KIT PARTS

The supplied MIDI interface kit contains all necessary parts and material for the installation and detailed installation instructions. The kit delivery contents:

1. MP-KBD MIDI Interface board
2. Bunch of the cables with connectors (including screws, nuts, washers and isolation material)
3. CD-ROM with the user and installation manuals and support software



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 is not damaged during the installation markedly. The physical appearance of the vintage instrument remains nearly 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 Mono/Poly are kept. The instrument can be used the same way as before the retrofitting thus.

The following tools are necessary for the installation: Phillips screwdriver, driller, drills 3,5 and 16 mm, smaller rasp, pliers, pincers, soldering iron (soft melting iron and soldering paste).



Attention ! Disconnect the instrument from the mains prior the installation. The risk of the electric shock !

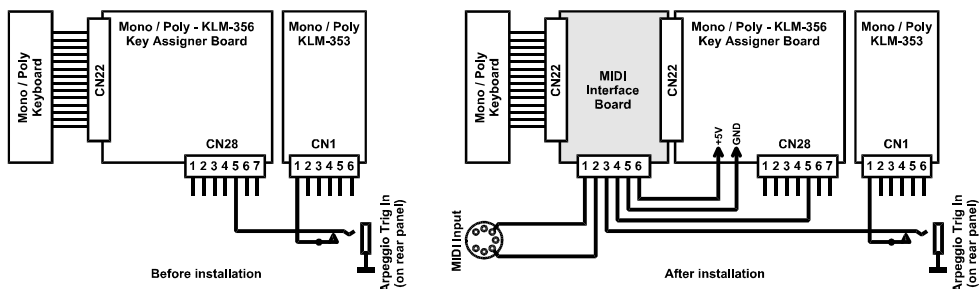


The producer is not responsible for any eventual mechanical or electrical damage of the Korg Mono/Poly instrument caused by the infringement of the described installation procedure or by uncaredful manipulation during the installation of the MIDI interface !

2. INSTALLATION OF MIDI INTERFACE

The interface is connected to the keyboard switch matrix of the instrument in parallel manner. It is also inserted into the arpeggiator synchronization impulses way. The following diagram explains the electrical connection of the interface in the instrument:

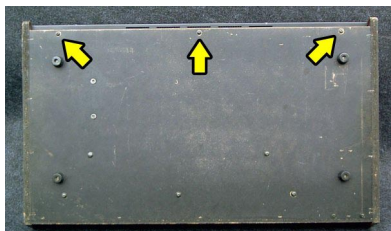
Electrical connection of interface in the instrument



2.1. RELEASING OF THE INSTRUMENT COVER

- Unscrew the three screws from the bottom of the instrument (pic. 1-1) and four screws on the front panel (pic. 1-2). Keep the screws. They will be used again after the MIDI kit installation.
- Lift off carefully the instrument front panel (pic. 1-3).

Pic. 1-1



Pic. 1-2



Pic. 1-3



2.2. MIDI-IN CONNECTOR INSTALLATION

There are three ways of the MIDI-In connector installation possible.

- If you do not like to mechanically damage the front cover of the instrument, take out the MIDI cable through the slot near the left side for example (see pic. 2-1).

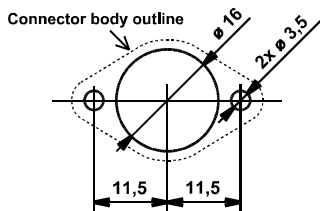
- If you do not want to damage the instrument, it is possible to mount the MIDI-In connector instead the serial number plate on the power cord sub-panel (see pic. 2-2). This solution is recommended since you can change the instrument in the original appearance at any time. The MIDI-In connector installation procedure is as follows:

Pic. 2-1

Pic. 2-2


- Turn over the front cover of the instrument back to sit on the sides of the instrument.
- Unscrew the serial number plate from the power cord sub-panel (pic. 2-3). Please save the serial number plate and screws.
- Drill three holes in the sub-panel (see pic. 2-4). Please work carefully to not drill in the instrument parts inside the instrument (pic. 2-5).

Pic. 2-3

Pic. 2-4

Pic. 2-5


- Clean the edge of the holes with small rasp (pic. 2-6). Clean the holes also from inside after the turn over the front cover. The visible silver edge should be colored with dark blue or black cover (you can use permanent marker for example) (pic. 2-7).

- Clean all iron sawdust and raspings from the inside of the instruments.** they can cause short circuits or serious electrical damage of the instrument. Please clean the instrument carefully!

- Insert the MIDI-In (DIN plug) in the back cover and fix it with screws and female screws. Insert the flat supports under the heads of the screws and fan type supports under the female screws (pic. 2-8). Hold the female screws during the fixing. All material is a part of the kit.

- It is suitable to mark the connector („MIDI IN“) use e.g. self-adhesive foil (pic. 2-9).

Obr. 2-6

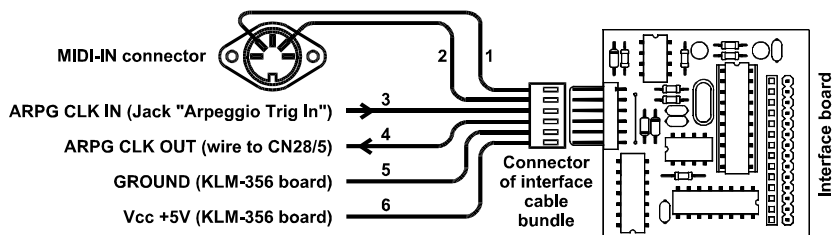
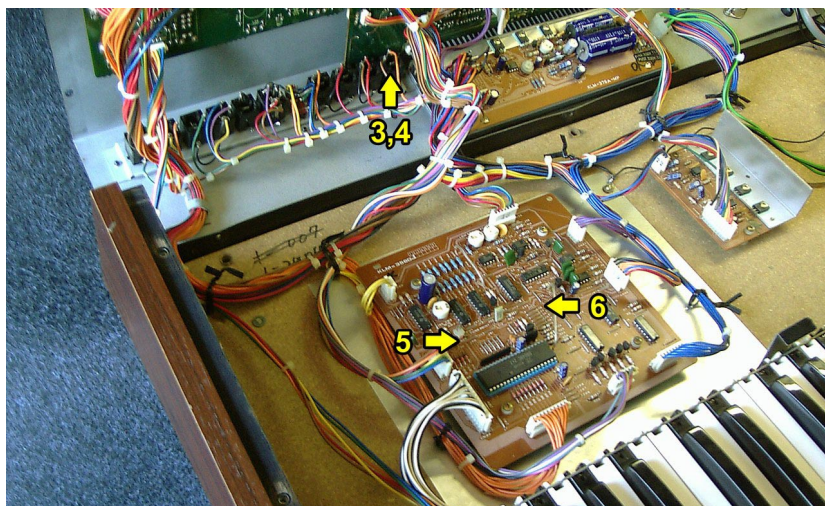

Pic. 2-7

Pic. 2-8

Pic. 2-9


2.3. CABLE MONTAGE

Bunch of the cables (part of the kit) is finished with six-pin connector (pic. 3-1). There are four terminals (except two wires to MIDI-IN connector). Two of them (5, 6) must be soldered on the instrument's KLM-356 Keyboard Assigner board and two of them (3, 4) to the ARPEGGIO-TRIG-IN Jack connector (pics 3-1, 3-2).

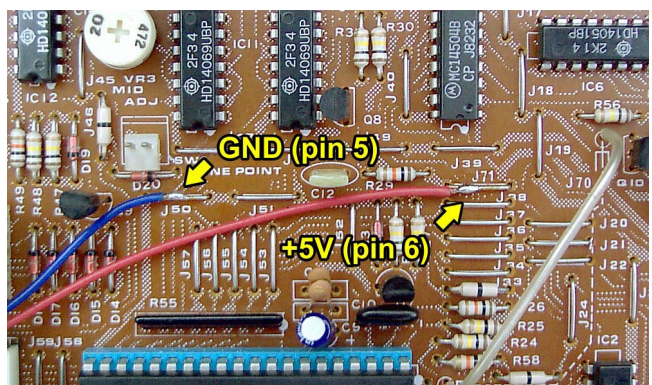
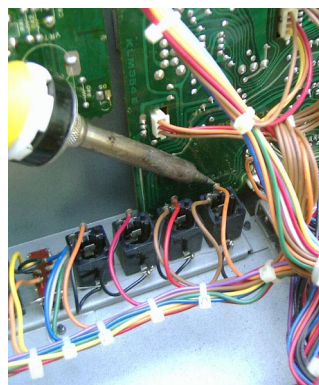
Pic. 3-1

Pic. 3-2


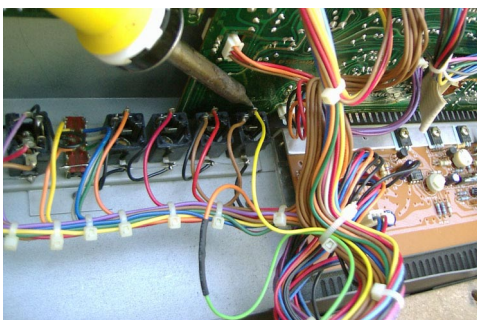
a) Solder the blue cable (GROUND - pin Nr. 5) to the ground of the KLM-356 board. The most suitable place is the J50 wire (pic. 3-3). Be careful here, as the cables must not be connected with other components on the circuit board.

b) Solder the red cable (Vcc +5V - pin Nr. 6) to the power distribution +5V on the KLM-356 board. The most suitable place is the J71 wire (pic. 3-3).

c) Unsolder the orange cable from the ARPEGGIO-TRIG-IN Jack connector on rear panel of the instrument (pic. 3-4). Place the shrinking isolation tube on the cable and solder the cable to green cable from the interface cable bunch (ARPG CLK OUT - pin Nr. 4). Isolate the connection with the isolation tube and heat it up until it shrinks to the cables fast. The tube can be heated up with hot-flue pistol for example (pic. 3-5).

d) Solder yellow cable from the interface cable bunch (ARPG CLK IN - pin Nr. 3) to released lead of the ARPEGGIO-TRIG-IN Jack connector (pic. 3-6).

Pic. 3-3

Pic. 3-4

Pic. 3-5

Pic. 3-6


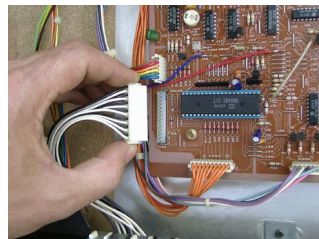
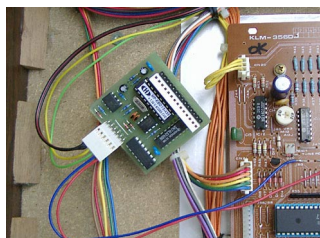
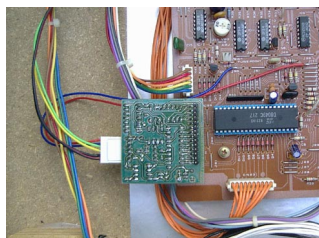
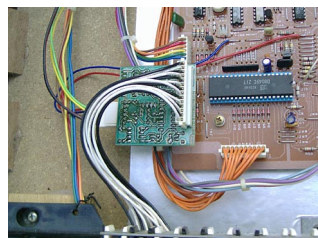
2.4. INTERFACE BOARD INSTALLATION

a) Detach the 14-pin CN22 connector on the KLM-356 board of the cable bunch from the instrument's keyboard (pic. 4-1).

b) Plug the flat 6-pin connector of newly installed cable bunch to the interface board (pic. 4-2). The connector can not be connected wrong way, there are locks on it.

c) Plug the interface board onto the CN22 connector on instrument's KLM-356 board, the flat connector of the interface board leading left (pic. 4-3). Component side of the interface board is orientated down.

d) Plug the connector of the cable bunch from the instrument's keyboard in the plug on the interface board (pic. 4-4). Be careful, the lock of the connector must lead right.

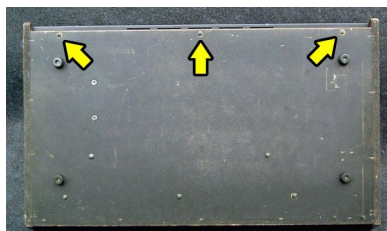
Obr. 4-1

Pic. 4-2

Pic . 4-3

Pic. 4-4


2.5. INSTRUMENT RE-ASSEMBLY

a) Turn over the front panel of the instrument.

b) Screw the panel with four screws to the sides of the instrument (pic. 5-1) and three screws to the bottom of the cover (pic. 5-2). Reversed procedure as described in the chapter 2.1.

Pic. 5-1

Pic. 5-2


The installation of the MIDI kit is now finished, the instrument is ready for use with MIDI.

Please read the user's guide carefully before the MIDI interface use.