

INSTRUCTIONS FOR MIDI INTERFACE ROLAND JUPITER 4

USING THE MIDI INTERFACE

When you turn on the synthesizer for the first time, you will be in omni-on mode for receive (all channels) - See next page for factory default settings When you select a receive channel, it will be stored in memory and will be remembered for when you subsequently turn on the synth - all parameters listed on the next page are stored.

If you want to put the machine back to the factory default settings at any time, switch the synth on whilst holding the red push button pressed - hold for a couple of seconds then release.

RED PUSH BUTTON

Two modes are available by pushing the red push button. Before you press the red button however, make sure that no notes are pressed on the synth otherwise the results may be unpredictable.

1) SET-UP MODE

Setting MIDI channels and assignments. Give the red push button two short presses (half a second each) - then release. Follow this with a note or sequence of notes as detailed on page 2. After selecting a channel you will be automatically returned to playing mode but after making assignments you will need to press the ENTER key (Top C) to return to playing mode. This is to enable you to make the multiple key presses required when re-assigning sources to destinations. (N.B. set-ups are stored in non volatile memory).

2) TRANSPOSE MODE

Press and hold the red push button for four seconds - then release. Middle C will sound on the synth and continue to sound until you press a key. The note that you press will be the new middle C for MIDI IN. You can set any value up to two octaves up or down. Settings outside this range will be ignored. Note that transpose mode cannot be entered from program mode.

ASSIGNING MIDI CONTROL SOURCES TO DESTINATIONS

SOURCES DESTINATIONS (d)=factory default

AFTERTOUCH off / modulation (d)/ p.bend / vcf / not used

CONTROLLER X
CONTROLLER Y
VELOCITY
MIDI VOLUME

off / vcf (d) / not used (d)
off / vcf / not used (d)
off (d) / vcf / vca
off / vca (d)

Sources can control more than one destination at once, but a destination can only be controlled by one source at a time. Thus if velocity is currently controlling VCF and then you switch aftertouch to VCF, velocity will then control nothing until re-assigned.

```
С
        Receive channel
                                       1 [ Bottom C ] MIDI note number 36
Db
               " "
D
                                       3
               " "
Eb
                                       4
               " "
                                       5
Ε
               " "
F
                                       6
               " "
                                       7
Gb
               " "
                                       8
G
                                               Selecting a receive channel
               " "
                                       9
Ab
                                               will automatically put the
               ....
                                       10
Α
                                               MIDI into omni off mode.
Bb
               " "
                                               That is, it will receive on
                                       11
В
               ....
                                       12
                                               the selected channel only.
               " "
С
                                       13
               " "
Db
                                       14
               " "
D
                                       15
               " "
Eb
                                       16
Ε
       Omni on mode
                                       (default)
F
             Not used
Gb
               " "
G
               " "
Ab
               " "
Α
               " "
Bb
               .. ..
В
               " "
С
Db
D
Eb
Ε
F
               " "
Gb
               " "
G
               " "
Ab
        Transmit Key on velocity
Α
                                       decrease
Bb
                                       normal (default)
                                                              : not stored
               . . . . .
В
                                       increase :
С
        Transmit Key off velocity
                                       decrease
Db
                                       normal (default)
                                                              : not stored
               . . . .
D
                                       increase
Eb
             Not used
Ε
F
       p.bend & mod wheel
                                       OFF
Gb
       p.bend
                                               ON (default)
                                       ON (default)
G
       mod wheel
Ab
       controller Y
                                       ignored (see page 3 re controller Y)
Α
                                       vcf
               ,,
Bb
                                       not used (default)
В
        controller X
                                       ignored (see page 3 re controller X)
С
                                       vcf (default)
               "
Db
                                       not used
D
        aftertouch
                                       ignored
Eb
                                       modulation (default)
               "
Ε
                                       p.bend (up only)
               "
F
                                       vcf
Gb
                                       not used
        velocity
G
                                       ignored (default)
Ab
                                       vcf
Α
                                       vca
        MIDI volume
Bb
                                       ignored
В
                                       vca (default)
С
        ENTER key
                                       Press and release. [ Top C ] MIDI note no. 96
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NOTES

- 1) Controller X can be any MIDI controller. After pressing the red push button twice to enter SET-UP mode, operate the required MIDI controller before pressing the C or Db key that will assign it. If you do not operate a controller before pressing the C or Db key, then controller X will respond to MIDI controller 16 that is General purpose controller 1 (10 hexadecimal) 0
- 2) Controller Y can be any MIDI controller. After pressing the red push button twice to enter SET-UP mode, operate the required MIDI controller before pressing the A or Bb key that will assign it. If you do not operate a controller before pressing the A or Bb key, then controller Y will respond to MIDI controller 17 that is General purpose controller 2 (11 hexadecimal)
- 3) Controller X/Y will take priority over other control messages, so if controller X/Y is the mod wheel, mod wheel messages will operate whatever controller X/Y is currently assigned to, instead of operating modulation.
- 4) Receive channel and omni-on setting will return you directly to playing mode, all other keys will let you stay in SET-UP mode until you press the ENTER key (Top C)
- 5) The ENTER key (Top C) also resets all controllers to their default values off in most cases on for volume centre for pitch bender.

6) Control change commands recognised - (numbers in decimal)

121 reset all controllers 01 modulation wheel

123 all notes off 07 Main volume 124 omni mode off (always poly) 64 sustain pedal

125 omni mode on (always poly)
126 (mono mode) = all notes off
94 select transpose mode
95 select set-up mode

127 (poly mode) = all notes off

nnn Controller X (user defined where nnn = any controller)
nnn Controller Y (user defined where nnn = any controller)
Controller X default = 16
Controller Y default = 17

7) Other commands recognised - (numbers in hexadecimal)

8nH notes off 9nH notes on & velocity

BnH control change (see above)

FEH active sensing

8) The synth is always ready to receive incoming MIDI notes if they are on the appropriate MIDI channel, but to you need to set the MIDI switch (on the left side of the lower front panel) in the down position in order to receive pitchbend & modulation - in addition you should have one of the vco/vcf/vca switches on the bender panel set to lfo - this will be controlled by the MIDI mod wheel - the MIDI pitchbend is set to always control pitchbend.

MIDI CONTROL OF RED PUSH BUTTON

The red push button can be "pressed" via MIDI as MIDI switch number 95 (5Fh) for regular program mode or 94 (5Eh) for transpose mode. The selection of the push button is enough, it doesn't matter if it is being turned on or off.

In hexadecimal BX - 5F - 00 = program mode In hexadecimal BX - 5E - 00 = transpose mode

Where X is the current MIDI channel.

[N.B. whilst in program/transpose modes the MIDI is in omni on mode]

MIDI CONNECTORS

MIDI IN should be connected to a MIDI OUT or a MIDI THRU similarly MIDI OUT should be connected only to a MIDI IN and a MIDI THRU should also be connected only to a MIDI IN.

MIDI OUT is the signal from the synthesizer (or drum machine etc.) that is to be sent to another instrument. MIDI IN is a received signal that contains MIDI information from another synth, and MIDI THRU is an exact copy of information arriving at the MIDI IN socket. This allows several instruments to be connected together.

If you want to wire your own MIDI cables the following information may be useful.

- 1) Although a 5 pin connector is used, only two connections plus an earth connection are required.
- 2) If you look at the din plug from the wiring side you will see that the pins are numbered. From left to right (or clockwise) these are 1 4 2 5 3.
- 3) The pins numbered 1 & 3 are not used.
- 4) The screen (earth) is connected to pin 2 (centre pin)
- 5) Pin 4 of one plug should be connected to pin 4 of the other
- 6) Pin 5 of one plug should be connected to pin 5 of the other
- 7) You should now have a working MIDI lead
- 8) It is preferable to label one end of the cable MIDI IN & the other end MIDI OUT, to avoid confusion.

WARRANTY

All Kenton MIDI Kits come with a 12 month (from purchase date) back to base warranty, (i.e. customer must arrange and pay for carriage to and from Kenton Electronics).

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