

## PEDAL KEYBOARD

# PK-25

## Owner's Manual

Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" (p. 2, 3) and "IMPORTANT NOTES" (p. 4). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, this Owner's Manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

Thank you, and congratulations on your choice of the Roland PK-25 Pedal Keyboard. The PK-25 is a pedal keyboard unit which was designed especially for the VK-77/VK-7. It provides a pedal keyboard, an expression pedal for dynamic volume changes, foot switches that let you control various functions of the VK-77/VK-7 by foot, and a hold pedal to sustain the sound.

### Features

#### ● Twenty five-note pedal keyboard and removable expression pedal

The PK-25 features a twenty five-note pedal keyboard for maximum enjoyment of organ playing. The built-in expression pedal can be removed from the pedal keyboard unit to make the unit more compact for transportation.

#### ● Foot switches for controlling the VK-77/VK-7

Two foot switches are built into the expression pedal. During a performance, you can switch the settings of the VK-77/VK-7 without removing your foot from the expression pedal or your hands from the keyboard.

#### ● Hold pedal

A hold pedal is provided. You can easily operate for additional expressive possibilities when playing sustain-type sounds.

#### ● Single-cable connection to the VK-77

When connecting the PK-25 to the VK-77, the supplied special cable is the only connection required—no need for MIDI cables, analog cables, or an AC power adapter. This makes setup quick and easy.

### Conventions used in this manual

Pages in this manual where you can find additional information are indicated like this: (p. \*\*).



### INDEX

|   |    |
|---|----|
| Using The Unit Safely.....                          | 2  |
| Important Notes.....                                | 4  |
| Names and Functions.....                            | 5  |
| Connections.....                                    | 7  |
| Connecting to the Expression Pedal.....             | 7  |
| Connecting to the VK-77 (Turning the Power On)..... | 7  |
| Connecting to the VK-7 (Turning the Power On).....  | 8  |
| Troubleshooting.....                                | 9  |
| Specifications.....                                 | 10 |
| MIDI Implementation.....                            | 11 |
| MIDI Implementation Chart.....                      | 12 |







# USING THE UNIT SAFELY

## INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

### About WARNING and CAUTION Notices







|  |  |
|--|--|
|  <b>WARNING</b> | Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.   |
|  <b>CAUTION</b> | Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly.<br>* Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets. |

### About the Symbols







|   |  |
|---|--|
|  | The  symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.         |
|  | The  symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled. |
|  | The  symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.        |

### ALWAYS OBSERVE THE FOLLOWING

#### WARNING


- Before using this unit, make sure to read the instructions below, and the Owner's Manual. 
- Do not open (or modify in any way) the unit or its AC adaptor. 
- Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page. 
- Never use or store the unit in places that are:
  - Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are 
  - Damp (e.g., baths, washrooms, on wet floors); or are 
  - Humid; or are
  - Exposed to rain; or are
  - Dusty; or are
  - Subject to high levels of vibration.
- Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces. 

#### WARNING


- Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.   

- Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock hazards! 
- Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit.   

- Immediately turn the power off, remove the AC adaptor from the outlet, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page when: 
  - The AC adaptor or the power-supply cord has been damaged; or
  - Objects have fallen into, or liquid has been spilled onto the unit; or
  - The unit has been exposed to rain (or otherwise has become wet); or
  - The unit does not appear to operate normally or exhibits a marked change in performance.

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**⚠ WARNING**

- In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit. 


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- Protect the unit from strong impact. (Do not drop it!) 

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- Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/ amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through. 

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- Before using the unit in a foreign country, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page. 

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**⚠ CAUTION**

- The unit and the AC adaptor should be located so their location or position does not interfere with their proper ventilation. 


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- Always grasp only the plug or the body of the AC adaptor when plugging into, or unplugging from, an outlet or this unit. 


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- Whenever the unit is to remain unused for an extended period of time, disconnect the AC adaptor. 


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- Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children. 


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- Never climb on top of, nor place heavy objects on the unit. 


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- Never handle the AC adaptor body, or its plugs, with wet hands when plugging into, or unplugging from, an outlet or this unit. 


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- Before moving the unit, disconnect the AC adaptor and all cords coming from external devices. 


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- Before cleaning the unit, turn off the power and unplug the AC adaptor from the outlet. 

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- Whenever you suspect the possibility of lightning in your area, disconnect the AC adaptor from the outlet. 

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- Be careful when handling the expression pedal unit or attaching/detaching the expression pedal unit to/from the PK-25 so you do not get your fingers pinched. 

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# Important Notes

In addition to the items listed under “USING THE UNIT SAFELY” on page 2 and 3, please read and observe the following:

## Power Supply

- Do not use this unit on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system).
- The AC adaptor will begin to generate heat after long hours of consecutive use. This is normal, and is not a cause for concern.
- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.

## Placement

- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.
- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Also, do not allow lighting devices that normally are used while their light source is very close to the unit (such as a piano light), or powerful spotlights to shine upon the same area of the unit for extended periods of time. Excessive heat can deform or discolor the unit.
- To avoid possible breakdown, do not use the unit in a wet area, such as an area exposed to rain or other moisture.
- Do not allow rubber, vinyl, or similar materials to remain on the piano for long periods of time. Such objects can discolor or otherwise harmfully affect the finish.
- Do not put anything that contains water (e.g., flower vases) on the piano. Also, avoid the use of insecticides, perfumes, alcohol, nail polish, spray cans, etc., near the unit. Swiftly wipe away any liquid that spills on the unit using a dry, soft cloth.
- If you slide the PK-25 over the floor, the floor could get scratched. To avoid this, lift the unit as you move it. Make sure to keep it level, though.
- Do not store the PK-25 on its end, or lean it against a wall for use. It may fall over, causing injury.

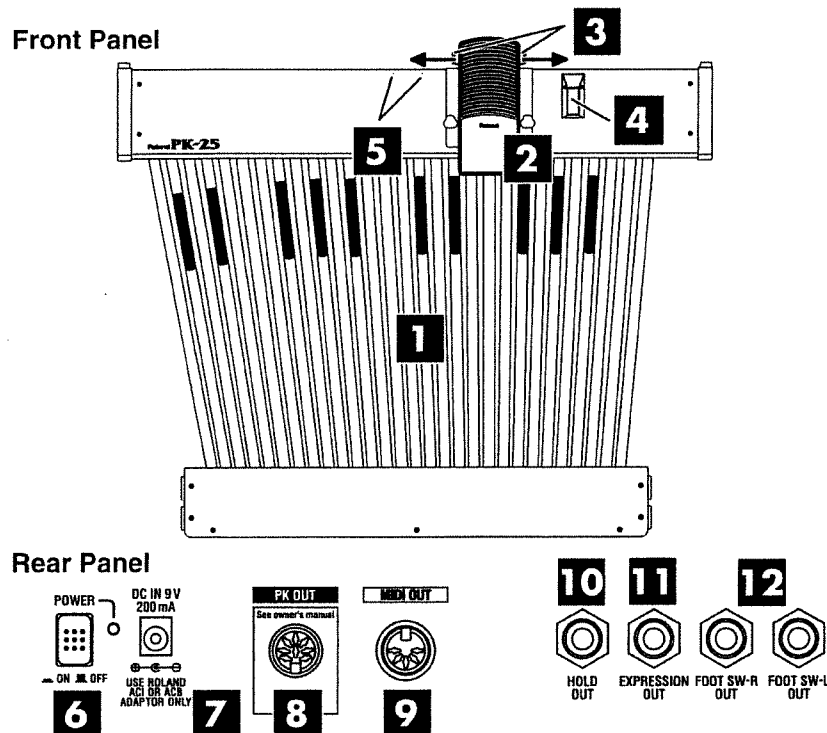
## Maintenance

- To clean the unit, use a dry, soft cloth; or one that is slightly dampened. Try to wipe the entire surface using an equal amount of strength, moving the cloth along with the grain of the wood. Rubbing too hard in the same area can damage the finish.
- Never use benzene, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

## Additional Precautions

- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- When connecting / disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.

# Names and Functions



## 1. Pedal Keyboard

The PK-25 features a 25-note pedal keyboard that is ideal for organ performance.

## 2. Expression Pedal

Advancing the pedal will increase the volume, and returning the pedal toward yourself will decrease the volume. For instructions on connecting it, refer to page 7.

## 3. Foot Switches

Two foot switches are built onto the sides of the expression pedal. Pressing the left switch in the direction of the arrow will switch the rotary effect between slow/fast. Pressing the right switch in the direction of the arrow will turn the rotary brake on/off. When the supplied special cable is used to connect the PK-25 to the VK-77, you can assign the function that will be controlled by each switch, left and right.

## 4. Hold Pedal

By pressing the Hold pedal you can hold (sustain) the Organ Voice/Orchestral Voice.



On the VK-77, the Hold function can be set as being ON or OFF for each part (VK-77 Owner's Manual, p. 72-73).

## 5. KS-77 Positioning Mark

When the KS-77 (a dedicated stand for the VK-77) is used with the PK-25, this mark indicates where the PK-25 should be placed. When the PK-25 is placed so that the legs of the stand are positioned between the marks, the VK-77 and PK-25 will be in the normal playing position.

## 6. POWER Switch

This turns the power of the PK-25 on/off.



If the supplied special cable is used to connect the PK-25 to the VK-77, the PK-25 will turn on/off in tandem with the VK-77. The power switch of the PK-25 need not be switched on/off.

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## 7. AC Adapter Jack

Connect the supplied AC adapter to this jack.

## 8. PK OUT Connector

Use the supplied special cable to connect this connector to the VK-77. After connecting to the VK-77, make sure to set the PEDAL KEYBOARD select switch on the VK-77's rear panel to PK IN (VK-77 Owner's Manual, p. 13).



*Do not attempt to use any cable other than the supplied special cable, since this will cause malfunctions.*

*This connector cannot be used with the VK-7.*

## 9. MIDI OUT Connectors

Use this connector to connect external MIDI devices such as the VK-7. Use a MIDI cable to make the connections.

## 10. HOLD OUT (Hold Pedal output) Jack

This jack outputs the on/off data from the hold pedal. If you are using the PK-25 with the VK-7, you can use a monaural cable (phone-phone) (sold separately) to connect this jack to the VK-7's CONTROL PEDAL1/CONTROL PEDAL2 jack, and set the Ext.Pedal1 Assign/Ext.Pedal2 Assign parameter to the Hold function so that only the selected part (Main/Sub/Pedal/Orchestra) will be sustained.

→ Refer to "Using an expression pedal or pedal switch to operate functions" (VK-7 Owner's Manual, p. 91)



*If a cable is connected to this jack, Hold data will not be sent from the PK OUT connector or the MIDI OUT connector. In this case, you can't change the MIDI channel.*

## 11. EXPRESSION OUT (Expression pedal output) Jack

This jack outputs the data from the expression pedal. When a stereo cable (phone-phone) (sold separately) is used to connect this jack to the VK-7's EXP PEDAL jack, the expression pedal will control the overall volume of the VK-7.



*The expression pedal is designed only for Roland/Boss products. Connecting it to products made by manufacturers other than Roland or Boss may cause malfunctions.*



*If a cable is connected to this jack, Expression data will not be output from the PK OUT connector or MIDI OUT connector.*

## 12. FOOT SW-L OUT/FOOT SW-R OUT (Foot switch L output /Foot switch R output) Jacks

These jacks output on/off data from the foot switches. When a monaural cable (phone-phone) (sold separately) is used to connect this to the VK-7's CONTROL PEDAL1/CONTROL PEDAL2 jack, you can use a foot switch to control functions other than rotary effect fast/slow or brake.



*If a cable is connected to this jack, Expression data will not be output from the PK OUT connector or the MIDI OUT connector.*

# Connections

## Connecting to the Expression Pedal

The PK-25 is shipped with the expression pedal detached. Before connecting the PK-25 to another device, please attach the expression pedal.



*When attaching or detaching the expression pedal, be careful not to step on a knob bolt. When removing the knob bolts, place them out of the reach of children. If a knob bolt is accidentally swallowed, consult a doctor immediately.*

- 1. Connect the expression pedal cable to the connector in the upper part of the PK-25.**
- 2. While being careful not to pinch the cable, place the expression pedal on the PK-25.**
- 3. Use the three supplied knob bolts to fasten the expression pedal, making sure that the bolt holes are aligned.**



*The connector in the upper part of the PK-25 is only for connecting the supplied expression pedal. Connecting this to any device other than the PK-25's own expression pedal could result in malfunction.*

*To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.*

## Connecting to the VK-77 (Turning the Power On)

Use the supplied special cable to connect the VK-77 and PK-25. The supplied AC adapter is not used.



*The PK-25 will be turned on/off by the power switch of the VK-77, regardless of the position of the PK-25's own power switch.*

- 1. Make sure that the VK-77's power is turned off.**
- 2. Set the PEDAL KEYBOARD select switch (located on the rear panel of the VK-77) to the PK IN position.**
- 3. Use the supplied special cable to connect the VK-77's PK IN connector to the PK-25's PK OUT connector.**
- 4. As explained on the VK-77 Owner's Manual, turn on the power of the VK-77.**
- 5. Verify that the indicator on the rear panel of the PK-25 is lit, and that the VK-77's display indicates "Pedal Keyboard Ready."**
- 6. Play the pedal keyboard. If you hear the pedal part of the VK-77, connections are complete.**



*This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.*



The Hold Pedal can be enabled or disabled independently for the Organ voice, Orchestral voice, and External.

→ Assigning controllers to the Organ voice—Organ Hold Sw (VK-77 Owner's Manual, p. 72)

→ Settings for the entire Orchestral Voice—Orch Hold Sw (VK-77 Owner's Manual, p. 73)

→ Enabling/disabling controller data transmission—Ext Hold (VK-77 Owner's Manual, p. 70)



A variety of functions can be assigned to each foot switch (L/R).

→ Assigning a function to the foot switch of a pedal keyboard unit—PK FootL Assign / PK FootR Assign (VK-77 Owner's Manual, p. 76)

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## Connecting to the VK-7 (Turning the Power On)

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Use a MIDI cable to connect the VK-7 and PK-25.

- 1. Make sure that the power of the VK-7 and PK-25 is turned off.**
- 2. Set the MIDI select switch (located at the middle of the VK-7's rear panel) to the SUB KEYBOARD position.**
- 3. Use a MIDI cable to connect the VK-7's PEDAL IN connector to the PK-25's MIDI OUT connector.**
- 4. Connect the appropriate end of the AC adaptor to the DC IN 9V jack. Then connect the other end to a standard AC outlet.**



*Once the connections have been completed, turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.*

- 5. Turn on the power of the PK-25, and make sure that the indicator on the PK-25's rear panel is lit.**
- 6. As described in the VK-7 Owner's Manual, turn on the power of the VK-7.**
- 7. Play the pedal keyboard. If the pedal part is heard from the VK-7, connections are complete.**

Once you have made connections as described above, you can use the switches and pedals to control the following functions.

- Expression pedal: Control the volume of all parts of the Organ, and the Orchestral Voice assigned to the Pedal part.
- Foot switch L: Switch the rotary effect between slow / fast.
- Foot switch R: Turn the rotary effect brake on/off.
- Hold pedal: Hold (sustain) the sound of the Pedal part.



*This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.*



When the PK-25's FOOT SW-L OUT/FOOT SW-R OUT/HOLD jack is connected to the VK-7's CONTROL PEDAL1/CONTROL PEDAL2 jack, you can assign a variety of functions to the foot switch. Use a mono cable (phone-phone) to make connections.  
→ Using an expression pedal or foot switch to operate functions (VK-7 Owner's Manual, p. 91)



When the PK-25's EXPRESSION OUT jack is connected to the VK-7's EXP PEDAL jack, you can use the expression pedal to simultaneously control the volume of all parts of the Organ and the Orchestral Voice. Use a stereo cable (phone-phone) to make connections.



The MIDI transmission channel is fixed at channel 2.



*When turning the power off, turn off the PK-25 after the VK-7.*



# Appendix

## Troubleshooting

If the PK-25 does not function as you expect, please check the following points first. If this does not resolve the problem, contact your dealer or a nearby Roland service center.

- The power (indicator) does not come on when I turn on the power switch.
  - ◆ If the PK-25 is connected to a device that cannot use the special connection cable (such as the VK-7), the supplied AC adapter must be used. After connecting the AC adapter correctly, turn the power switch on.
- The power (indicator) does not turn on/off when I turn the PK-25's power switch on/off.
  - ◆ When the special connection cable is used to connect the VK-77 and PK-25, the PK-25 will operate in tandem with the VK-77's power switch. Make sure that the VK-77's power supply and the special connection cable are connected correctly.
- Not ready for operation immediately after power-up.
  - ◆ The PK-25 requires approximately five seconds after it's powered up before it's ready for normal operation.
- The foot switch, hold pedal, and/or expression pedal do not operate correctly.
  - ◆ Make sure that the expression pedal cable is correctly connected to the connector on the upper part of the PK-25. (p. 7)
  - ◆ If the special connection cable is used to connect the PK-25 to the VK-77
    - Make sure that the cable is connected correctly. (p. 7)
    - Check the settings of the switches or pedals.  
Foot switch: VK-77 Owner's Manual, p. 76 (PK FootL Assign/PK FootR Assign)  
Hold pedal: VK-77 Owner's Manual, p. 70 (Ext Hold), p. 72 (Organ Hold Sw), p. 73 (Orch Hold Sw)  
Expression pedal: VK-77 Owner's Manual p. 70 (Ext Expression), p. 73 (Orch Exp Sw)
  - ◆ If a MIDI cable is used to connect the PK-25 to the VK-7
    - Check that the MIDI cable is connected correctly. (p. 8)
    - If you wish to use the expression pedal to control the volume of the orchestral voice, use a stereo cable (phone-phone) to connect the EXPRESSION OUT jack to the VK-7's EXP PEDAL jack, or the EXP PEDAL OUT jack to the VK-7's CONTROL PEDAL1/2 jack. (VK-7 Owner's Manual, p. 92, p. 93)
- ◆ If MIDI and analog cables are used to connect the PK-25 to the VK-7
  - Make sure that the polarity of the VK-7's CONTROL PEDAL1/2 jack is set to "Standard." (VK-7 Owner's Manual, p. 91)
  - Make sure that a function is assigned to the VK-7's CONTROL PEDAL1/2 jack. (VK-7 Owner's Manual, p. 92)
  - Use a stereo cable (phone-phone) when connecting the EXPRESSION OUT jack to the VK-7's EXP PEDAL jack, or the EXP PEDAL OUT jack to the VK-7's CONTROL PEDAL1/2 jack.
- Cannot assign a function to the foot switch.
  - ◆ When the PK-25 is connected to the VK-7 without using analog cables, functions other than Rotary Slow/Fast (foot pedal L) and Rotary Brake (foot pedal R) cannot be assigned.
- MIDI channel can't be changed.
  - ◆ The MIDI transmission channel is fixed at channel 2. (p. 8)

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# Specifications

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Pedalboard: 25 keys

- Control: Expression Pedal  
Foot Switch-L/R  
Damper (Hold) Switch  
Power Switch
- Connectors: PK OUT Jack  
MIDI OUT Connectors  
HOLD OUT Jack  
EXPRESSION OUT Jack  
FOOT SW-R OUT Jack  
FOOT SW-L OUT Jack
- Power: DC 9 V: AC Adaptor, or Supplied from VK-77 via dedicated cable
- Current Draw: 200 mA (DC 9 V)
- Dimensions: 1068 (W) x 887 (D) x 275 (H) mm  
42-1/16 (W) x 34-15/16 (D) x 10-7/8 (H) inches
- Weight: 29.1 kg / 64 lbs 3 oz
- Accessories: Owner's Manual  
AC Adaptor  
PK connector's cable
- Options: Organ Bench: BNC-25

\* In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

# MIDI Implementation

Model: PK-25 (MIDI Pedal Keyboard)  
Date: Feb. 1, 2000  
Version: 1.00

## 1. Transmitted Data

### ■ Channel Voice Messages

#### ● Note off

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| 81H    | kkH      | 40H      |

kk = note number: 24H - 3CH (36 - 60)

#### ● Note on

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| 91H    | kkH      | 78H      |

kk = note number: 24H - 3CH (36 - 60)

#### ● Control Change

##### ○ Expression (Controller number 11)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| B1H    | 0BH      | vvH      |

vv = expression: 00H - 7FH (0 - 127)

- If the EXPRESSION OUT jack on the rear panel is in use, this unit doesn't send Expression message via MIDI.

##### ○ General Purpose Controller 3 (Controller number 18)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| B1H    | 12H      | vvH      |

vv = control value: 00H, 7FH (0, 127)

- This message will be sent by operating a foot switch locating left side of the expression pedal.
- If a FOOT SW-L OUT jack on the rear panel is in use, the unit doesn't send this message via MIDI.

##### ○ General Purpose Controller 4 (Controller number 19)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| B1H    | 13H      | vvH      |

vv = control value: 00H, 7FH (0, 127)

- This message will be sent by operating a foot switch locating right side of the expression pedal.
- If a FOOT SW-R OUT jack on the rear panel is in use, the unit doesn't send this message via MIDI.

##### ○ Hold 1 (Controller number 64)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| B1H    | 40H      | vvH      |

vv = control value: 00H, 7FH (0, 127)

- If a HOLD OUT jack on the rear panel is in use, the unit doesn't send Hold 1 message via MIDI.

### ■ System Realtime Message

#### ● Active sensing

Status  
FEH

- This will be transmitted constantly at intervals of approximately 250 ms.

### ■ System Exclusive Messages

"Data Set 1 (DT1)" to control VK-7 is the only System Exclusive messages transmitted by PK-25.

#### ● Data Set1 DT1

| Status | Data byte  | Status |
|--------|--|--------|
| F0H    | 41H, 10H, 00H, 08H, 12H, aaH,<br>bbH, ccH, ddH, eeH, sum | F7H    |

| Byte | Remarks  |
|------|--|
| F0H  | Exclusive status                                       |
| 41H  | ID number (Roland)                                     |
| 10H  | device ID  |
| 00H  | model ID   |
| 08H  | model ID (VK-7)  |
| 12H  | command ID (DT1)                                       |
| aaH  | address MSB: The most significant byte of the address  |
| bbH  | address  |
| ccH  | address  |
| ddH  | address LSB: The least significant byte of the address |
| eeH  | data: The actual data to be transmitted.               |
| sum  | checksum   |
| F7H  | EOX (End Of Exclusive)                                 |

- This unit sends the following messages to control ROTARY SOUND of the VK-7. Refer to MIDI Implementation pages in the VK-7 Owner's Manual.

F0 41 10 00 08 12 02 00 10 3D ... F7  
(Rotary Speed: Transmit by FOOT SW-L)

F0 41 10 00 08 12 02 00 10 3E ... F7  
(Rotary Rotation: Transmit by FOOT SW-R)

# MIDI Implementation Chart

| Function...      |  | Transmitted                   | Recognized                 | Remarks  |
|------------------|--|-------------------------------|----------------------------|--|
| Basic Channel    | Default Changed  | 2<br>x                        | x<br>x                     |  |
| Mode             | Default Messages Altered   | Mode 3<br>x<br>*****          | x<br>x                     |  |
| Note Number :    | True Voice   | 36 - 60<br>*****              | x<br>x                     |  |
| Velocity         | Note ON<br>Note OFF  | O (9n, v=120)<br>O (8n, v=64) | x<br>x                     |  |
| After Touch      | Key's Ch's   | x<br>x                        | x<br>x                     |  |
| Pitch Bend       |  | x                             | x                          |  |
| Control Change   | 11<br>18<br>19<br>64   | O<br>O<br>O<br>O              | x<br>x<br>x<br>x           | Expression<br>General Purpose 3<br>General Purpose 4<br>Hold 1 |
| Prog Change      | : True #   | x<br>*****                    | x<br>x                     |  |
| System Exclusive |  | O *1                          | x                          |  |
| System Common    | SongPos<br>SongSel<br>Tune   | x<br>x<br>x                   | x<br>x<br>x                |  |
| System Real Time | Clock Commands   | x<br>x                        | x<br>x                     |  |
| Aux Message      | All Sound OFF<br>Reset All Controllers<br>Local ON/OFF<br>All Notes OFF<br>Active Sensing<br>Reset | x<br>x<br>x<br>x<br>O<br>x    | x<br>x<br>x<br>x<br>x<br>x |  |
| Notes            | *1 For controlling Rotary Sound of the VK-7  |                               |                            |  |

Mode 1 : OMNI ON, POLY

Mode 2 : OMNI ON, MONO

O : Yes

Mode 3 : OMNI OFF, POLY

Mode 4 : OMNI OFF, MONO

x : No



For the U.K.

**IMPORTANT:** THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

BLUE: NEUTRAL  
BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.  
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.  
Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug.

For EU Countries



This product complies with the requirements of European Directive 89/336/EEC.

For the USA

### FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Unauthorized changes or modification to this system can void the users authority to operate this equipment.  
This equipment requires shielded interface cables in order to meet FCC class B Limit.

For Canada

### NOTICE

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

### AVIS

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.



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