■Roland®

JP-6

Owner's Manual

	•	



Operation Manual



PROGRAMMABLE POLYPHONIC SYNTHESIZER

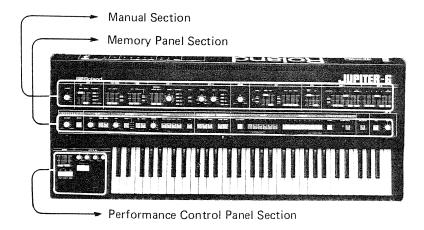
•The JP-6 includes memory capacity to retain up to 48 different synthesizer patches. (P. 22)

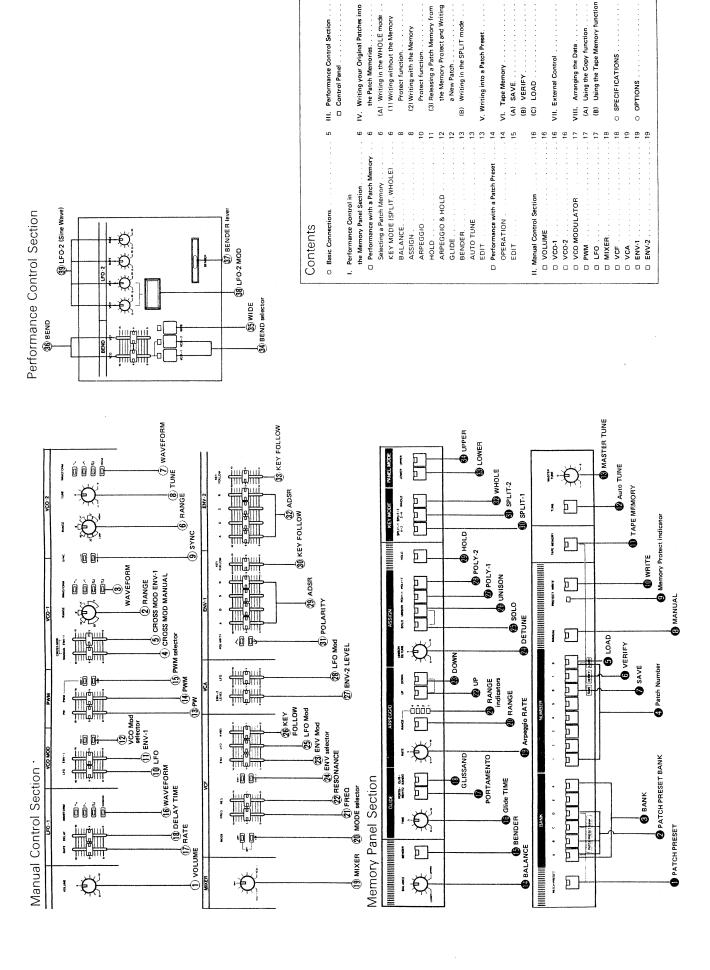
- Any program in memory can be temporarily edited during live performance.
 (P 13)
- •You can write a Tone color and various effect modes into any of the 32 Patch Preset memories, for quickly using them later, during live performance. (P. 14)
- Battery back-up system to retain the memory even when switched off. (P. 26)
- DETUNE function allows a powerful ensemble effect in SOLO UNISON or UNISON mode.
- •A quick tuning of all the 12 VCO's is possible by the automatic tuning function. (P. 13)
- •By changing the Key Mode (WHOLE, SPLIT-1 & SPLIT-2) and Key Assign (POLY-1, POLY-2, UNISON, SOLO and SOLO-UNISON), various attractive effects will be obtained.

FEATURES

- The Jupiter-6 (JP-6) is the 61 key, 6 voice, 12 VCO polyphonic synthesizer that offers an exceptionally wide variety of rich sounds, therefore greatly expands the performance capabilities.
- Many different Arpeggio effects are available by controlling the Arpeggio MODE and RANGE.
- •The tape interface enables you to save the 48 Patch Programs and 32 Patch Preset memories into an ordinary tape recorder for storage and later retrieval.
- •The Manual Section includes various interesting functions such as Cross Modulation, Synchronization, chromatic Range adjustment, intensity control of the Key Follow effect, Patch Shift function, etc.
- If connecting a Pedal Switch to the PATCH SHIFT jack, you can call 8 Patch Memories within a Bank one after another, simply by pressing the pedal.
- •The DIN jack (OUT/IN) for MIDI standard external device.
- ★It is necessary for you to clearly understand all the functions of the JP-6 to make the best use of it. Please read this owner's manual carefully in operating your JP-6.

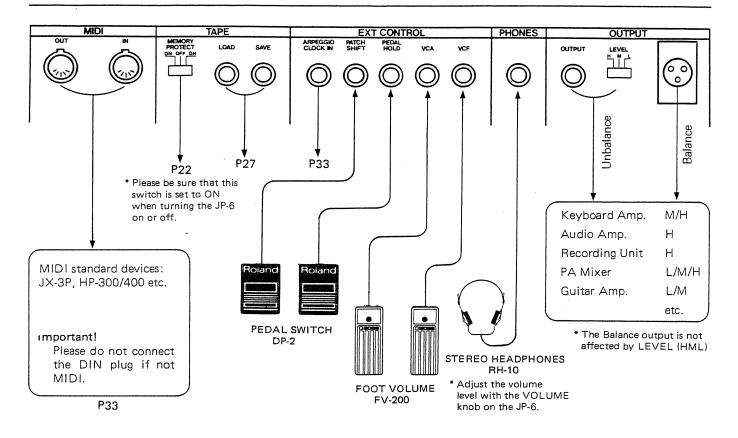
► The JP-6 includes 3 main sections.





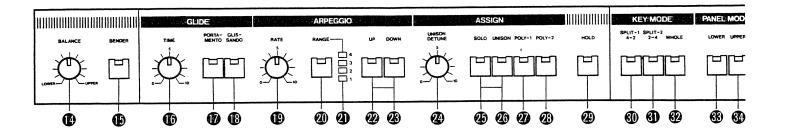
		•	
,			

Basic Connections



Bescheinigung des Herstellers /Importeurs

6 VOICE POLYPHONIC SYNTHESIZER JP-6
(Gerät, Typ. Bezeichnung)
in Übereinstimmung mit den Bestimmungen der
Vfg 1046 / 1984
(Amtsblattverfügung)
funk-entstört ist.
Der Deutschen Bundespost wurde das Inverkehrbringen dieses Geräter angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.
Roland Corporation
Name des Herstellers/Importeurs



I Performance Control in the Memory Panel Section

The Memory Panel section includes various performance control functions. By using any of the 48 pre-programmed Patch Memories or your own synthesized patch with the various effects such as an Arpeggio or Glissand etc., wide variety of

performance is available. Also, you can write this into a Patch Preset for quick retrieval later in live performance.

The JP-6 offers even more attractive functions, please read this manual and explore them.

Performance with a Patch Memory

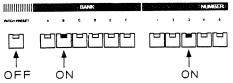
Selecting a Patch Memory

Press the PATCH PRESET button 1 to turn it off. (The indicator goes out.)
Then select any Patch Memory you like with the BANK button 3 and Patch Number button 4.

*By connecting a Pedal Switch (DP-2 etc.) to the PATCH SHIFT jack, the Patch Shift function is available (P. 33), i.e. each time you press the Pedal, the Patch Number (in the same Bank) changes as $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \cdots \rightarrow 8 \rightarrow 1 \rightarrow \cdots \rightarrow 8$

►Example (B-3)

Patch Memory B-3

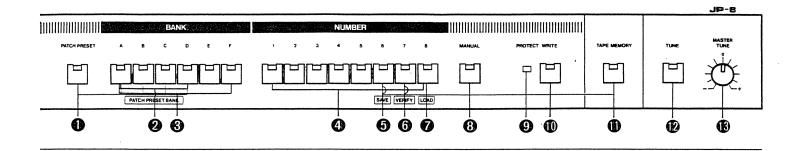


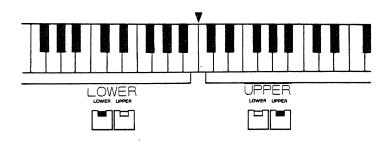
* Please explore other Patch Memories,

KEY MODE

SPILITE MODE

You can split the keyboard into LOWER and UPPER sections where even two different tone colors and mode settings can be assigned. So the JP-6 can be played as two polyphonic synthesizers. Press the SPLIT-1 button or the SPLIT-2 button to select this mode.





Press the UPPER button 4 then set the UPPER section to your taste. If setting the LOWER section, press the LOWER button 4 .

*In the SPLIT-1 mode, 4 voices are assinged to the LOWER section and 2 voices to the UPPER.

In the SPLIT-2 mode, 4 voices are assigned to the UPPER section and 2 voices to the LOWER.

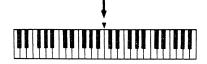
►Setting Example

	TONE COLOR	ASSIGN	ARPEGGIO	GLIDE	BENDER
UPPER	Organ-like sound	FOLY-1 FOLY-2	OFF	TIME FORTH SAUGO	ON
LOWER	Piano-like sound		AATE AMAGE UP DOWN 4~5 2 U&D	OFF	OFF

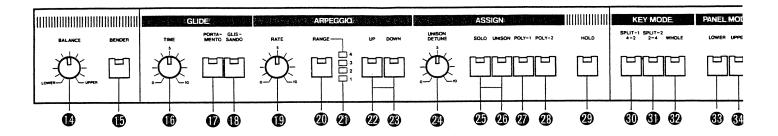
*Split Point is where the keyboard is splited into UPPER and LOWER sections.

This Split Point is automatically set at This Split Point is This Split Poi

The Split Point when the JP-6 is turned on.



*If you press the UPPER or LOWER button, the indicators of the Patch Memory and mode buttons light up displaying how each section has been set.

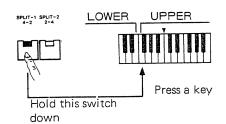


Changing the Split Point

In the SPLIT mode, the Split Point can be set at any place you like by the following procedures.

Operation

While holding either the SPLIT-1 or SPLIT-2 button down, press any key you like, and the key will be the lowest note in the UPPER section.



- *If you press the different keys one after another while holding the SPLIT button, the first key will have the priority. (The first key will be the lowest note in the UPPER section.)
- *The Split Point you have set will stay until you turn the JP-6 off or set a new Split Point.
- *The Split Point you have set cannot be written in the Patch Preset. (P. 26)

WHOLE made

In this mode, the JP-6 entire keyboard will react to one patch as a single 6 voice synthesizer. Press the WHOLE button ②.

*When you change from the WHOLE mode to the SPLIT mode, the patch and the mode settings of the WHOLE mode

will stay in the UPPER section unchanged. The LOWER section, however, differs.

*If you change from the SPLIT mode to the WHOLE mode, the patch and the mode settings of the UPPER section will stay in the WHOLE mode.

BALANCE

This sets the volume level balance of the UPPER and LOWER sections in the SPLIT mode. Rotating it clockwise () increases the volume level of the UPPER and counterclockwise () has the opposite effect.

ASSIGN

The four ASSIGN mode selectors determin how the 6 synthesizer voices available within the JP-6 will be applied to the keys played. The ASSIGN mode and Key mode have a certain relation.

SOLO



The SOLO Assign mode turns the JP-6 into a single voice synthesizer following Last Note Priority.

* LAST NOTE PRIORITY

The Lower Note Priority is that the lower key is selected when more than two keys

are being played. The Higher Note Priority is the opposite. If the last note pressed has the priority, it is called the Last Note Priority, and this is adopted in the JP-6 SOLO mode. This Last Note Priority function allows an interesting solo performance, i.e. if you hold a key down and alternately press and release another key, the key being held down and the other key will alternately sound.

UNISON



Maximum synthesizer voices applied to one key changes depending how many keys you are pressing.

1 key → 6 voices

2 keys → 3 voices each

3 keys → 2 voices each

 $4 \sim 6 \text{ keys} \rightarrow 1 \text{ voice each}$

Also, by adjusting the DETUNE knob , an ensemble effect will be obtained.

This effect is not available when more than 4 keys are pressed.

*In the SPLIT mode, maximum voices applied to one key will be as follows.

4 notes

1 key \rightarrow 4 voices

2 keys → 2 voices each

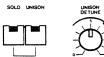
 $3 \sim 4 \text{ keys} \rightarrow 1 \text{ voice each}$

2 notes

1 key → 2 voices each

2 keys → 1 voice each

SOLO UNISON



To turn the JP-6 into this mode, press the SOLO button and the UNISON button at the same time. Now the

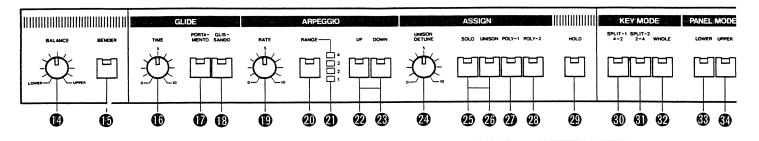
JP-6 is turned to a monophonic synthesizer, and in the WHOLE mode, all 6 synthesizer voices will be assigned to each key (In the SPLIT mode, 2 or 4 synthesizer voices will be assigned to each key.). As you turn the DETUNE knob clockwise (), the pitch differences increase and the ensemble effect will be more intensive.

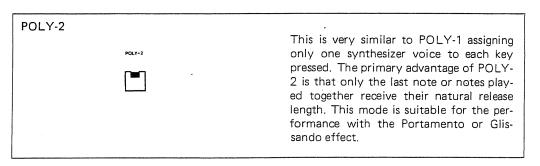
POLY-1





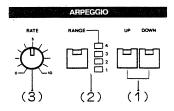
This mode turns the JP-6 to a 6 voice polyphonic synthesizer assigning one synthesizer voice to each key pressed. It is suitable for the sound whose envelope curve is similar to Piano or Guitar etc., but not appropriate for the Portamento effect.





ARPEGGIO

The JP-6 will sequence any notes played on the keyboard in the order that they are pressed within the Arpeggio range of 4 octaves.



(1) Arpeggio Mode

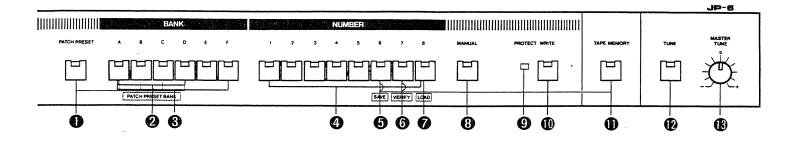
There are following 4 modes and you can select any of those simply by pressing the button.



- a) UP
 Turn only the UP button ② on.
- Turn only the DOWN button **43** on.
- c) UP & DOWN
 While pressing the UP button , press the DOWN button . The indicator of the UPPER button flashes and that of the DOWN button lights up showing that it is now in the U & D mode.

d) DOWN & UP

While holding the DOWN button down, press the UP button 2. The indicator of the DOWN button flashes and that of the UP button lights displaying that it is in the D & U mode.



(2) RANGE

This button sets the range of the Arpeggio. Each time you press this RANGE button 1, its indicator will change $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 1$ Those figures indicate the ranges as shown beside.

1 = 1 octave

2 = 2 octaves

3 = 3 octaves 4 = 4 octaves

(3) Arpeggio RATE

This knob determines the rate of the Arpeggio. Rotating this clockwise (\bigcirc) quicken the rate.

▲ By controlling those buttons and knob, wide variety of Arpeggios are available.

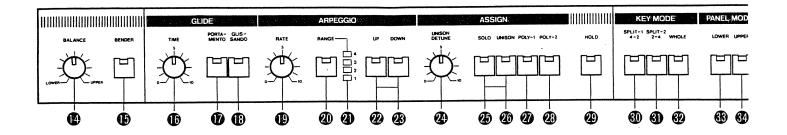
⟨NOTE⟩⟩

Setting different Arpeggio Modes and Ranges is possible in the SPLIT mode. The Rate works in common for both the UPPER and LOWER sections.

- *Unless you turn the Hold function on, and Arpeggio will be only repeated while keys are pressed.
- *By connecting a rhythm unit to the ARPEGGIO CLOCK IN, the Arpeggio pattern will perfectly synchronize with its rhythm.
- *If you wish to stop the Arpeggio playing, press any one of the four Assign buttons.

HOLD

When the HOLD button is turned on, the sound remains even after you release the key. The level of the sound is determined by the Sustain level you have set in the ENV. (P. 19). Therefore, you cannot hold a sound with Sustain level of zero.

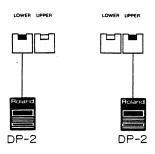


Operation

Turn the HOLD button ② on, and press it again to turn it off.

- *In the SPLIT mode, you can turn the Hold function on or off separately in the UPPER and LOWER section. In this case, turn the LOWER or UPPER button on, then the HOLD button. Up to 6 notes can be held at a time. If you release the keys once and press other keys, the previous notes will be replaced with the ones newly played.
- *By connecting the Pedal Switch DP-2 to the JP-6 (P. 33), you can turn the Hold function on or off by using the Pedal Switch. Any 6 notes pressed last will be held if you keep changing the chords.

Also, in the SPLIT mode, the Hold function is available only in the section where its indicator (LOWER or UPPER) lights.



ARPEGGIO & HOLD

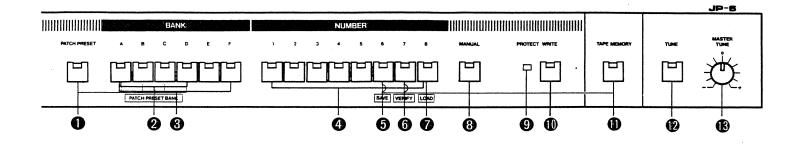
If you press the HOLD button while an Arpeggio is being played, it will be repeated until a new chord is played.

*This Arpeggio and Hold function is also obtained by using the Pedal Switch DP-2. This is effective for the sound whose envelope curve is similar to the Piano's, etc. Also, in the SPLIT mode, this function is obtained only in the UPPER or LOWER section whose indicator lights.

GLIDE

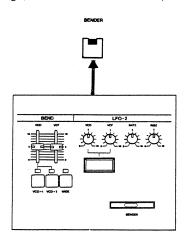
The Portamento effect will be on by pressing the PORTAMENTO button ... Pressing the GLISSANDO button ... will turn the Glissando effect on. It is not possible to turn both effects on at the same time. The time of the Portamento or Glissand can be controlled with the Glide TIME knob ...

- *In the SPLIT mode, you can turn the Portamento or Glissando effect on in either section, UPPER or LOWER. The Glide TIME knob, however, will work commonly for both.
- *POLY-2 key mode is most suitable for these effects.



BENDER

Turn the BENDER button (b) on if controlling the Control Panel section (P. 20)



- *In the WHOLE mode, the BENDER button will be always on.
- *In the SPLIT mode, you can turn this bender button on or off separately in the UPPER and LOWER sections.
- *Also, in the SPLIT mode, if you use the Foot Volume FV-200 to control the VCF, it will have an effect on the section where the BENDER button has been turned on. Whether this BENDER button is turned on or off does not affect the VCA control with the Foot Volume.

Auto TUNE

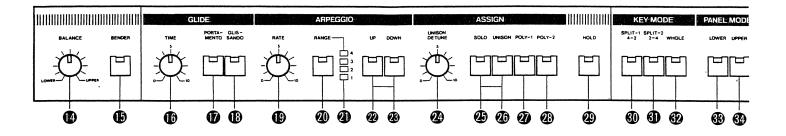
If you notice pitch differences among the VCO's, simply press the Auto TUNE button (2), then 12 VCO's will be immediately tuned automatically.

- *The overall tuning can be done with the MASTER TUNE knob (B).
- *The moment the JP-6 is switched on, tuning is automatically done. The JF-6 may be detuned if its body temperature changes, so tuning will be necessary even after switched on.

EDIT

You can edit any patch program in use as you play by moving the controls in the Manual Section. The indicators of the Patch Number you are editing will light up displaying that.

*This Edit function may be used as a real time performance control since this Edit function does not automatically rewrite the existing program, unless the appropriate procedure for rewriting is done. (Refer to P. 22). Therefore, if you select the same Patch Program later, you will hear the original tone color unchanged.



⟨⟨NOTE⟩⟩

If the PATCH PRESET button is turned on, the same BANK and Patch Number (e. g. A-1) will sound completely different. i.e. the Patch Preset of A-1 is in use instead of the Patch Memory A-1.



Check if this button is ON or OFF.

Performance with a Patch Preset

The Patch Preset function allows you to write a tone color and various effect modes into a Patch Preset (or even one pair of tone colors and two different mode setting in the SPLIT mode). There are 32 Patch Presets and any of these can be in use just by pressing the buttons.

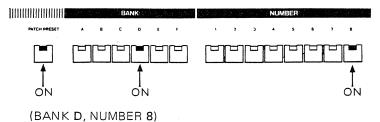
Operation

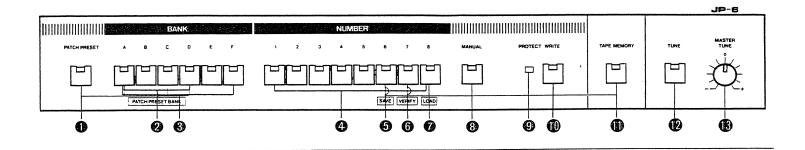
Turn the PATCH PRESET button ① on. (The indicator will light up.) Then select a Patch Preset by pressing a BANK button ② and Patch Number button ④.

*By using a Pedal Switch (DP-2, etc.), the Patch Shift function is made available. Each time you press the Pedal, the Patch Preset Number will change as 1 → 2 → 3 → ········ → 8 → 1, i.e. you can call the Patch Presets in the same Bank one after another during live performance.

►Example

PATCH PRESET D-8





Editing the Patch Preset

You can edit any Patch Preset in use as you play. While editing a Patch Preset by using the controls in the Memory Panel section, the indicator of the PATCH PRESET will flash. If you are editing a Patch Preset by using the controls in the Manual Section, no indicator flashes. If you turn the PATCH PRESET button off at this stage, the indicators start flashing.



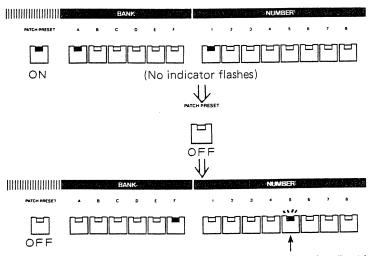
*This Edit function may be used as a real time performance control since this Edit function does not automatically rewrite the existing program, unless the appropriate procedure for rewriting is done. (Refer to P. 26) Therefore, if you select the same Patch Program later, you will hear the original tone color unchanged.

►Example 1
Editing the Patch Preset A-1 with the controls in the Memory Panel section.

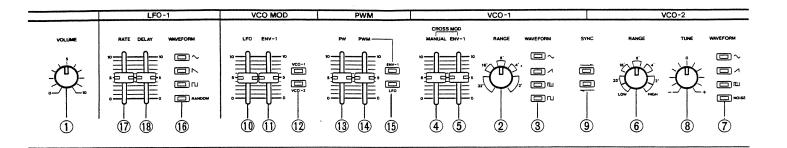


(This flashes showing that this Patch Preset is being edited.)

► Example 2 Editing the Patch Preset A-1 as you play with the controls in the Manual section.



(This flashes showing that this Patch Memory is edited.)



II Manual Control Section

- *In this section, you can synthesize tone colors and save them into memory, or edit the Patch Memory previously written
- ★When synthesizing in the Manual Control Section, turn the MANUAL button ③ on. If you wish to edit the Patch Memory, call it by pressing the BANK and Patch Number buttons, then edit it by using the controls within the Manual Control Section.

■ VOLUME

1 VOLUME

This knob adjusts the overall volume. The volume level set here cannot be written in the Patch Memory.

■ VCO-1

2 RANGE

This RANGE Control enables the pitch control of the VCO-1 in half steps as the rotary switch is swept through its range.

3 WAVEFORM

This is to select the output waveform of the VCO-1. It is even possible to mix the different waveforms by pressing the switches at the same time, but \square and \square cannot be mixed together.

(4) CROSS MOD MANUAL

When modulating the VCO-1 by the output signal of the VCO-2, you can control the intensity of the modulation with this knob. If not using the VCO-2 as the sound generator, turn the MIXER (9) fully counterclockwise (()).

*If the VCO-2 is set to function in its Low Frequency range (Refer to (6)), it will work as the LFO and the VCO-1 will produce more sophisticated modulation effects. Also, if the VCO-2 is in its normal audio range, the CROSS MODULATION of the VCO-1 will produce ring modulation style effects such as metalic sounds. This is useful for synthesizing the tone colors of bell or Japanese musical instruments, etc.

(5) CROSS MOD ENV-1

When the output signal of the VCO-2 is modulating the VCO-1 and the signal is controlled by the ENV-1, this knob decides the intensity of the modulation.

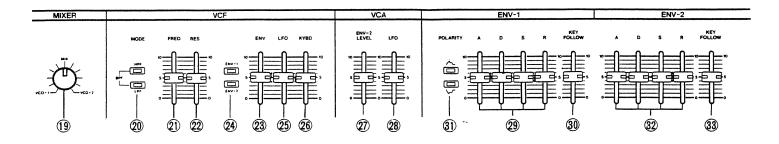
*There may be no effect if the ENV-1 is set to . If so, please raise the MANUAL knob to an appropriate level.

■ VCO-2

(6) RANGE

This sets the pitch range of the VCO-2. The pitch changes in half steps, as the rotary control is swept through its range. When this knob is set to LOW, the VCO-2

will produce only Low Frequency signals which are not audible (approx. 1.5 Hz \sim 50 Hz). If set to HIGH, the range will be higher than 2' \sim 1/2'.



7 WAVEFORM

This selects the output waveform of the VCO-2. Like the VCO-1, it is possible to mix the different waveforms.

(8) TUNE

This allows adjustment between the discreet half steps selected by the VCO-2 RANGE control. This has a variable range of \pm 50 cent (1/4 note).

(9)SYNC

This is used when syncronizing the VCO-1 and VCO-2. It is possible to synchronize the pitch of the VCO-1 to VCO-2, or that of VCO-2 to VCO-1 in both ways by changing the position of this switch. Also, using the CROSS MOD simultaneously will result in a wide variety of tone colors and effects.

■ VCO MODULATOR

(10) LFO

This knob controls the amount of the LFO output signal modulating the VCO (depth of the vibrato effect).

(1) ENV

This knob sets the amount of the ENV-1 output signal controlling the VCO.

(12) VCO MOD Selector

By these two switches, you can select if the LFO modulation or the ENV modulation will be applied to either the VCO-1 or VCO-2 or both.

PWM

(13) PW

This sets the width of the pulse wave. When this is set to 0, the duty of the pulse wave is 50 percent, i. e. the square wave (Liu). As you raise the slider, the pulse width will be narrower. If this is set to 10, the duty will be 0 percent, i. e. there is no sound comming out.

14) PWM

This sets the intensity of the pulse width modulation by the LFO or ENV-1. By

controlling the pulse width, wide variety of tone colors are obtained.

*If the PW is set at 10, the pulse width modulation by the ENV-1 signal does not have any effect. Please adjust the PW

15) PWM Selector

By pressing one of these switches, you can select the pulse width modulation by either LFO or ENV-1 signal.

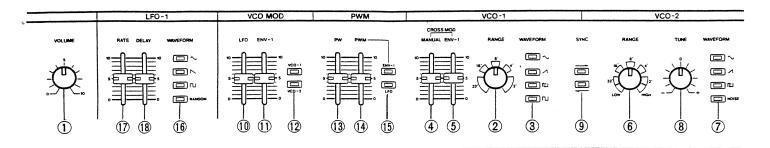
■ LFO

(16) WAVEFORM

These switches are used to select the LFO output signal. RANDOM will generate irregular voltage alteration.

(17) RATE

This knob changes the rate (frequency) of the LFO. If raising this knob and selecting the RANDOM signal of the LFO, you can obtain the effect just like pink noise modulation.



(18) DELAY TIME

This sets the time required for the LFO signal to start working after the key is pressed. When it is set to 10, delay time is approximately 2.5 seconds. This Delay

function does not work unless the key is attacked for each note. Therefore, in legato, this is applied to only the first note. Also, this Delay function has no effect on PWM (14) and VCA (28)

■ MIXER

(19) MIX

This is to mix the sounds from the VCO-1 and the VCO-2 at any proportion your like. Turning this counterclockwise (\bigcirc) increase the volume of the VCO-1 and

clockwise () increases the VCO-2. If, however, the RANGE in the VCO-2 is set to LOW and this knob is turned fully clockwise (), there might be no sound heard.

■ VCF

20 MODE

If the HPF switch is pressed down, the VCF will function as a High Pass Filter, and if the LPF is pressed, as a Low Pass Filter. If both switches are pressed down, it will work as a Band Pass Filter.

21 FREQ

In the LPF mode, as you lower this knob, higher frequency will be blocked. In the HPF mode, raising the same knob will block lower frequency. In the Band Pass mode, raising this knob blocks the frequencies other than at the Cutoff Point.

22 RESONANCE

Raising this knob will emphasize the harmonics at the Cutoff Point. If controlling the VCF with this RES knob set to high, you can obtain a sort of tone color impossible to make with any other musical instrument.

23 ENV MOD

This knob controls the intensity of the ENV modulation over the VCF cutoff point. This, however, has no effect, if the FREQ knob 21 is set at 10.

(24) ENV Selector

You can select between the ENV-1 or ENV-2 for the ENV modulation.

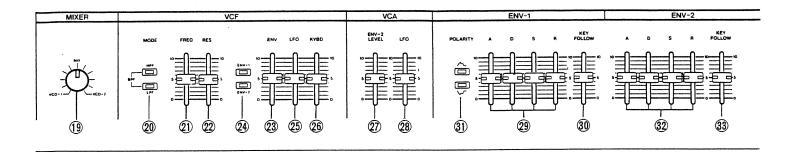
25 LFO MOD

This controls the amount of the LFO output signal modulating the VCF (the depth of the growl or wah effect).

(26) KEY FOLLOW

This control the amount of the keyboard CV that changes the Cutoff Point of the VCF. Raising this knob makes higher notes brighter.

*The Jupiter-6 allows maximum of 120 percent over keyboard CV follow when this knob is set at 10.



VCA

27) ENV-2 LEVEL

This is used for the volume control when the VCA is modulated by the ENV-2 output signal.

*When you are writing the tone colors, adjust the volume level (to your ears) to make them all sound in the same level for later comfortable listening.

((NOTE))

The JP-6 features excellent capability of sound synthesizing, so in some settings of the controls, sound distortion may occur because of its excessively high volume. If so, lower this knob.

28 LFO MOD

This knob is used to change the depth of the tremolo effect when the VCA is controlled by the LFO output signal.

■ ENV-1

29 ADSR

A: ATTACK TIME

This sets the time required for the voltage to reach its maximum from the moment the key is pressed down.

D: DECAY TIME

This determines the time required for the voltage to drop from the maximum to the level set by the Sustain Level. When the Sustain level is high, the envelope curve does not change by adjusting this knob.

S: SUSTAIN LEVEL

This determines the Sustain Level to which the voltage falls at the end of the Decay Time.

R: RELEASE TIME

This sets the time needed for the voltage to reach zero.

*When all of the ADSR knobs are set at zero, the waveform will be an extremely short Pulse wave, and only a short "click" is heard. Please be careful.

30 KEY FOLLOW

Raising this knob makes the higher sound shorter. This is useful to generate realistic percussive sounds.

(31) POLARITY

This selects the polarity of the envelope curve. Normally this is set to (/).

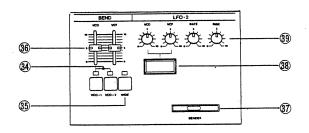
ENV-2

32 ADSR

These function exactly the same as (29).

(33) KEY FOLLOW

This functions the same as (30).



Performance Control Sections

In this section, creative real time control is available by using the controls such as the BENDER or LFO-2.

- *If the BENDER button (5) is off, the Performance Control Section does not work.
- *When the Jupiter-6 is in the SPLIT mode, you can turn the BENDER button on or off in the UPPER and LOWER section separately.
- *In the WHOLE mode, the BENDER button is always on.

Control Panel

(34) BEND Selector

These are to turn on or off the Bender function. Each can be controlled separately.

(35) WIDE

When this button is on, the Bender effect will be applied to the VCO-1 or VCO-2 whichever you have selected, and its maximum variable range will be more than 3 octaves. In this case, the indicator will turn to orange and the BENDER knob (36) will not work.

*Using this WIDE button with the CROSS MOD (4) or SYNC (9), a unique effect can be obtained.

(36) BEND

VCO: This sets the maximum Bender effect on the VCO.

VCF: This sets the maximum Bender effect on the VCF.

(37) BENDER lever

Move this lever to change the pitch or tone color. At its center position, this has no effect on the Jupiter-6's sound or settings, while the left and right extremes of movement achieve the same amount of Bend in opposite directions.

38) LFO-2 MOD

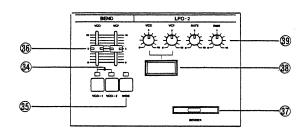
This is to turn on or off the effects set by the controls in the LFO-2.

(39) LFO-2 (Sine Wave)

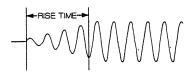
VCO: This sets the depth of the vibrato effect when the LFO-2 is modulating the VCO. The output of the LFO is a sine wave (∼). Deep modulation is not available by this LFO-2 as this is just for the vibrato effect.

VCF: This sets the depth of the growl effect when the LFO-2 modulates the VCF.

RATE: This adjusts the rate (frequency) of the LFO-2. Turning it clockwise () raises the rate between approx. 1Hz ~ 10Hz.



RISE TIME: This determines the time required for the LFO-2's modulation to reach the depth set by the BEND knob (36) in the Performance Control Section.



★Memory Protect Function

Please note that the MEMORY PRO-TECT switch should be set to ON except in writing mode.



Please be sure to return this MEMORY PROTECT switch to the ON position right after writing is completed.

If the MEMORY PROTECT switch is set to ON, all internal memories will be protected, so you will be released from accidental lost of the patch memories. When this switch is set to the OFF position, i.e. if you are writing a new patch into memory, it may be a good idea to individually protect each patch during each writing operation.

► Memory Operation

(1) Writing a new Patch Memory without Protect.

with Protect.

Press this button, then select a Patch Memory.

If selecting a Patch Memory without Protect.

Writing is completed.

The PATCH NUM-If Selecting a Patch Memory BER button will flash.

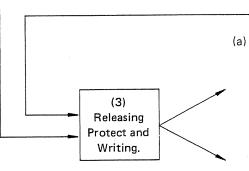
(2)Writing a new Patch Memory with Protect.

Hold this button and Select a Patch Memory.

If Selecting a Patch Memory (a) without Protect.

Writing is completed.

If Selecting a Patch Memory The PATCH NUM-(b) BER button will flash. with Protect.



Writing a new Patch Memory without Protect.

Press the WRITE button then

press the Patch Memory buttons (BANK and PATCH NUMBER) twice.

Writing is completed.

Writing a new Patch Memory with Protect.

Hold the WRITE button down then

press the Patch Memory buttons (BANK and PATCH NUMBER) twice.

Writing is completed.

IV Writing your Original Patches into the Patch Memories

You can write the patch you have synthesized in the Manual Section or the edited patch into the Patch Memories. The old patch memory previously written is automatically deleted when you have complated writing a new patch memory.

(A) Writing in the WHOLE mode

(1) Writing without the Memory Protect function

- •Set the Key Mode to WHOLE.
- •Turn the PATCH PRESET button
 off.
- Press the MANUAL button 3 and synthesize your own sound or edit the existing Patch Memory by controlling the Manual Section.
- Press the WRITE button ①. (The indicators of the Patch Number buttons will flash).
- *Pressing the WRITE button again will cancel this mode.
- •By pressing the BANK button 3 and the Patch Number button 4, select the Patch Program to be written.
- (a) The indicators of the chosen Patch Memory light up and the indicator of the other NUMBER buttons go out, displaying that writing into a Patch Memory is completed.
- (b) If you select the Patch Memory that is protected, indicators of that Patch Memory will keep flashing, displaying that writing is not possible. If you wish to replace this Patch Memory with a new one, do as instructed in "(3) Releasing a Patch Memory from the Memory Protect and writing a New Patch (a) on P. 24".

- *If you write the Edited patch into the same Patch Memory where it was originally written, the original Patch will be replaced with the Edited one. If you write this Edited patch into a different Patch Memory, both the original patch and edited one will be retained.
- If writing the Edited patch into the same Bank, you do not need to press the BANK button, but if into the different Bank, it is strictly required to press the appropriate BANK button first, then Patch Number button. The indicators of this Edited Patch Memory light and other indicators flash, so that you can easily tell which Patch Memory is edited. If the writing is completed, those indicators light and other go out.
- *If the MEMORY PROTECT switch is turned on, all the memories will be protected, but they can be accidentally lost by improper operation if turned off. So to be secured, it is recommened to protect the individual patch when writing it into memory as follows.

(2) Writing with the Memory Protect function

- •Set the Key Mode to WHOLE.
- •Turn the PATCH PRESET button off.
- Press the MANUAL button 3 and synthesize your own sound or edit the existing Patch Memory by controlling the Manual Section.
 While holding the WRITE button down, select the Patch Memory where you wish to write.
- (a) The Memory Protect indicator will turn orange and the indicators other than the Patch Memory's go out, displaying that Writing with the Memory Protect is completed.
- (b) If you have selected the Patch Memory that was written with the Memory Protect function, its indicator will keep flashing, showing that Writing is impossible. If you wish to replace this Patch Memory with a new one, do as instructed in "(3) Releasing a Patch Memory from the Memory Protect and Writing a New Patch (b)".
- *When the MEMORY PROTECT switch on the rear panel is set to OFF, the Memory Protect indicator displays two different things by its color.

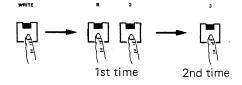
A protected Patch Memory is shown by the orange light indicator and the green indicator means that the Patch Memory was written without the Protect. This is useful in arranging the order of the Patch Memories. (Refer to P. 34)

(3) Releasing a Patch Memory from the Memory Protect and Writing a New Patch

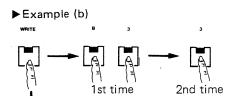
- •Set the Key Mode to WHOLE.
- •Turn the PATCH PRESET button off.
- Press the MANUAL button (3) and synthesize your own sound or edit a Patch Memory.
- (a) Press the WRITE button, then select the Patch to be written by pressing the appropriate BANK button and Patch Number button twice. The Memory Protect indicator will turn green and the indicators other than the Patch Memory's go out, displaying that the new patch is

written without the Protect.

Example (a)



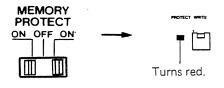
(b) While holding the WRITE button down, select a Patch Memory by pressing the relevant buttons twice.



Keep pressing

The Memory Protect indicator will turn to orange and other indicators go out, displaying that the new patch is written with the Protect.

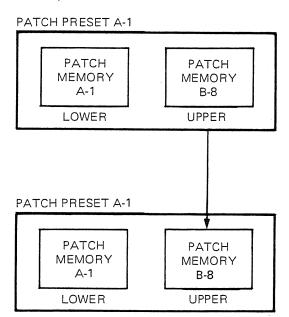
★Setting the MEMORY PROTECT switch on the rear panel to ON will turn the Memory Protect indicator red. This displays that all the Patch Memories are now protected.



(B) Writing in the SPLIT mode

*In the SPLIT mode, you can write the tone color in either UPPER or LOWER section (where the indicator lights). By using this function, you can, for instance, call a Patch Preset and edit the tone color of the UPPER section only, then write this Edited patch into the same Patch Memory. In other words, you can call any Patch Preset you like and edit the tone color of only one section and write this Edited patch into the same Patch Memory.

►Example



As you play Patch Preset A-1, edit the Patch Memory B-8.

Write the Edit into B-8. The Patch Preset A-1 contains the same Patch Memories.

▶ Operation

- (1) Turn the PATCH PRESET button off.
- (2) Set the Key Mode to SPLIT.
- (3) Select either LOWER or UPPER in the Panel Mode section. The tone color of the selected section can be edited and later written.
- (4) Now write the Edited patch just like writing in the WHOLE mode. Then the edited patch is written into the same Patch Memory.

V Writing into a Patch Preset

You can write two different tone colors and various modes into a Patch Preset. Up to 32 Patch Presets are available. In the SPLIT mode, each LOWER and UPPER section can have a different tone color and effect mode settings. This Patch Preset function enables extremely simple and quick retrieval of the desired Patch, which is specially useful during live performance.

This Patch Preset function is just to remember the combination of the Patch Memories and modes. This has no ability of retaining the tone color itself, therefore, the Patch Preset will change if the Patch Memories in the Patch Preset are edited or new patches are written.

▶Operation

- Select any Patch Memory you like or synthesize your own tone color, then set the effect modes to your taste.
- (2) Set the MEMORY PROTECT switch on the rear panel to OFF.
- (3) Turn the PATCH PRESET button on.
- (4) Press the WRITE button. (The indicator will light up.)
- (5) Select the Patch Preset to be written by pressing the BANK button and the Patch Number button.

- (6) Set the MEMORY PROTECT switch ON
 - *Now you have completed writing a Patch Preset. Refer to P. 14 for calling the Patch Preset in memory.

((NOTE)

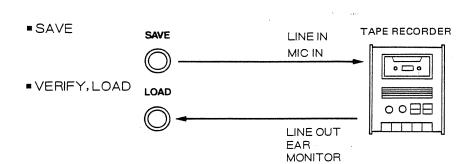
The Jupiter-6 features battery back up system to retain the memory even when switched off. The batteries should be replaced with a new set in every five years. In this case, please have your local Roland dealer do the job. (The first replacement might be required before five years.)

The Jupiter-6 contains the Tape Interface that enables you to save the Patch Memory and Patch Preset Data into an ordinary tape recorder.

Though the Patch Memories are protected by battery back-up system, it is better to save them into a tape to prevent accidental erasure of the important data.

Connections

- TAPE -



(A) SAVE

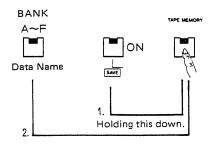
(1) Set the tape recorder to REC (recording mode).



- (2) While holding the TAPE MEMORY button down, press the SAVE button 7.
 - *If you put a Data Name to each data you are saving, later loading procedure will be considerably quickened. Any BANK button of A to F can be used as a Data Name.

After pressing the SAVE button, assign the Data Name (Bank A to F) quickly without releasing the TAPE MEMORY button.

If the Data are named B, C, D and A, and saved in a tape in the same order, you can load any one of these data much quicker just by pressing the relevant BANK button.

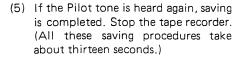


(3) Release the SAVE button first, then the TAPE MEMORY button. The Pilct tone will be sent from the SAVE jack.



Save S

(4) If your tape recorder features the recording level control, adjust it so that the Pilot tone will register near 0 VU. In about five seconds, the JP-6 starts to produce a Modulated tone instead of the Pilot tone, i.e. saving into a tape recorder begins. (Be sure to complete adjusting the recording level before this Modulated tone is heard.)



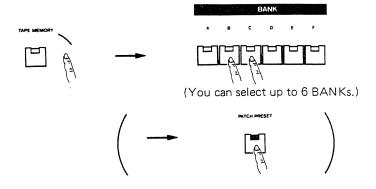


((Saving a Bank))

You can save each Bank separately as well as all 48 patches together.

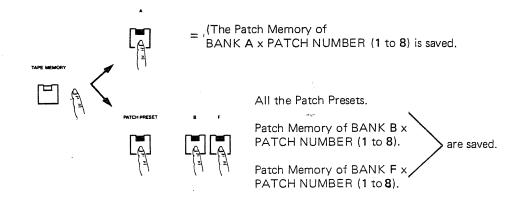
- (1) Set the tape recorder to REC (recording mode).
- (2) While holding the TAFE MEMORY button down, press the SAVE button
- (3) Release the SAVE button first, then the TAPE MEMORY button. The Pilot tone will be sent from the SAVE jack.
 - * Please remember to release the SAVE button before the TAPE MEMORY button.

- (4) After releasing the TAPE MEMORY button , choose any Bank you like quickly. (Complete this procedure before the Modulated tone starts.)
 - *If you wish to save a Patch Preset data, turn the PATCH PRESET button on when pressing the BANK button.



►Example

Pressing BANK button A will save the Patch Memories 1 to 8 in its Bank (8 patches), and pressing B and F will save the Patch Memories within the Bank B and F (16 patches).



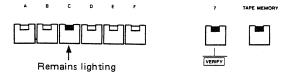
(5) If the Pilot tone is heard again, saving is completed. Stop the tape recorder.

(B) VERIFY

- (1) Set the tape recorder so that the tape will be played back from the very beginning of the recorded Data (where you hear a Pilot tone).
 - *If you use a tape recorder with the play back volume control, set it to fairly high level.
- (2) Press the VERIFY button while holding the TAPE MEMORY button down.
- (3) Release the VERIFY button and the TAPE MEMORY button.

- (4) Set the tape recorder to Play (playing mode).
 - Now playing back the data and verifying it start.
- (5) If you hear the Pilot tone again, and the Tape Memory indicator is turned off and the indicators of the same Bank and Patch Number buttons light up as before verifying, Verify is completed. Stop the tape recorder.
- ★For reassurance, you may always verify after saving.

- If there is an error . . . the indicators will be as shown below.
 - ▶Example When there is an error within the BANK C.



Repeat the Verify procedures taking care of following points.

- (1) Be sure to press the VERIFY button while the Pilot tone is still heard.
- (2) Be sure to adjust the play back level of the tape recorder.
- (3) Check if connections have been correctly made.
- (4) Check if the Bank you are trying to verify is the one you saved.

If there was an error in the very beginning of the Verify procedure, particularly take care of (1) and (4). If the Verify procedure did not complete even after fifteen seconds, (2) and (3) are particularly required.

If the above procedures were all correctly done, it is likely that there is something wrong with the tape itself.

- *If the error is indicated again and again no matter how many times you try . . .
- Replace with a new tape.
- Clean and demagnetize the head of the tape recorder.
- Use a different tape recorder and repeat the same procedures.
- ★Preserving the data tape

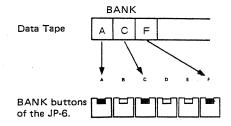
Please do not keep the data recorded tape in a place of high temperature or humidity or near a strong magnetic unit such as a speaker or an amplifier.

(C) LOAD

- (1) Set the tape so that it will be played back from the very beginning of the data (where you hear a Pilot tone).
- (2) Set the MEMORY PROTECT switch on the rear panel of the JP-6 to OFF.
- (3) Hold the TAPE MEMORY button down, and press the LOAD button .
- (4) Release the LOAD button first, then the TAPE MEMORY button.
- (5) Set the tape recorder to Play (playing mode).Now the loading starts.

(6) If you hear the Pilot tone again, the Tape Memory indicator is turned off and the indicators of the same Bank and Patch Number buttons light up as before, Loading is completed. Stop the tape recorder. If you have loaded a Bank, it will be loaded in the same Bank as saved.

► Example

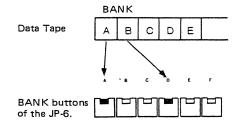


((Selecting the Bank where you are loading))

- Set the tape so that it will be played back from the very beginning of the data (where you hear a Pilot tone).
- (2) Set the MEMORY PROTECT switch on the rear panel of the JP-6 to OFF.
- (3) Holding the TAPE MEMORY button down, and press the LOAD button 7.
- (4) Release the LOAD button first, then the TAPE MEMORY button.
- (5) Immediately after you release the TAPE MEMORY button, press the appropriate BANK button. You can choose more than one Bank, but not more than the Banks saved in the tape.
- (6) Set the tape recorder to Play. The data now will be loaded into the chosen Banks one by one in the priority order of A, B, C, D, E, F.

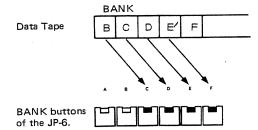
►Example 1.

When selecting BANKs A and D.



► Example 2

When selecting BANKs C, D, E, and F.



(7) If you hear the Pilot tone again, and the Tape Memory indicator is turned of and the indicators of the same Bank and Patch Number buttons light up as before, stop the tape recorder.

((Selecting a Data Name))

- Set the tape recorder so that the tape will start from just before the data you are going to load.
- (2) Set the MEMORY PROTECT switch to OFF.
- (3) Press the LOAD button while holding the TAPE MEMORY button down. Then without releasing the TAPE MEMORY button, select the Data Name you like.
- (4) Release the TAPE MEMORY button.
 *If selecting a Bank here, follow the procedure (5) in the "Selecting a Bank".
- (5) Set the tape recorder to Play. When the tape proceeds up to the Data Name you have chosen, loading will start.

▶ Example

Tape with the Data Names on.

B

D

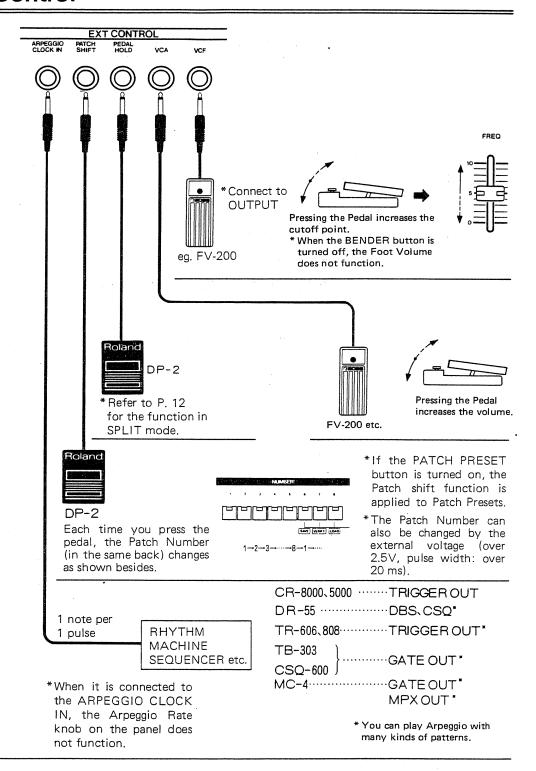
E

F

LOAD

Only the data with the Data Name F is loaded.

- (6) If you hear the Pilot tone again, and the Tape Memory indicator is turned off and the indicators of the same Bank and Patch Number buttons light up as before, stop the tape recorder.
- *Try using the good quality tape and tape recorder if dubbing the data from a cassette tape to another.



* Please do not connect non-MIDI device to the JP-6.

MIDI

(Musical Instrument Digital Interface)

MID BUS is the interface system that converts the CV or Gate signal to the digital signal for the communication between two connected units. The information available in the JP-6 is as follows.

- (a) Key (which key is played)
- (b) Auto Tune
- (c) Patch Preset selection
- *If the PATCH PRESET selector switch is turned off, information (c) cannot be exchanged.
- * Although the JP-6 MIDI BUS sends all the information (a) to (c), some of this may not be received by the external device if the relevant functions are missing. For instance, if

the external device does not include the Auto Tune function, using the Auto Tune knob does not affect the external device at all. On the other hand, if the information other than (a) to (c) is sent to the JP-6, the JP-6 does not react at all.

VIII Arranging the Data

By using the Copy function and the Tape Memory function, you can change the order of the data previously written.

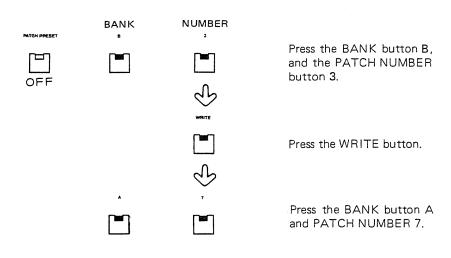
(A) Using the Copy function

Copying a Patch Memory

There may be some Patch Memories which are more frequently used than others. If these Patch Memories are collected in the same Bank, it will be easier

to decide where to write a new patch, which after all saves a great deal of your work and time.

▶ Copying the Patch Memory B-3 into A-7.



⟨⟨NOTE⟩⟩

Please be sure to press the BANK button first, then the PATCH NUMBER button. If you press the PATCH NUMBER button 7 first, the patch will be written into B-7.

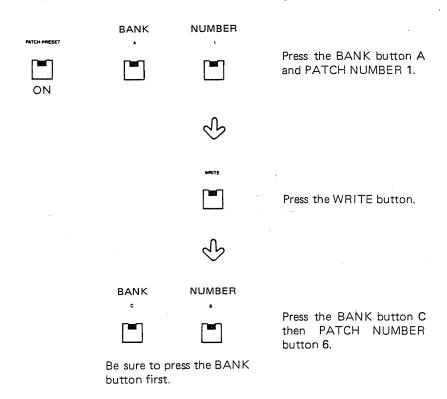
Copying a Patch Preset

A Patch Preset can be copied and Patch Shifted.

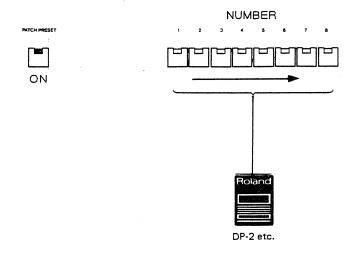
^{*}The color of the Memory Protect indicator (green or orange) will make this job a lot easier.

^{*} This function is particularly useful when the Patch Shift function (see P. 33) is being used.

► Copying the Patch Preset A-1 to C-6.



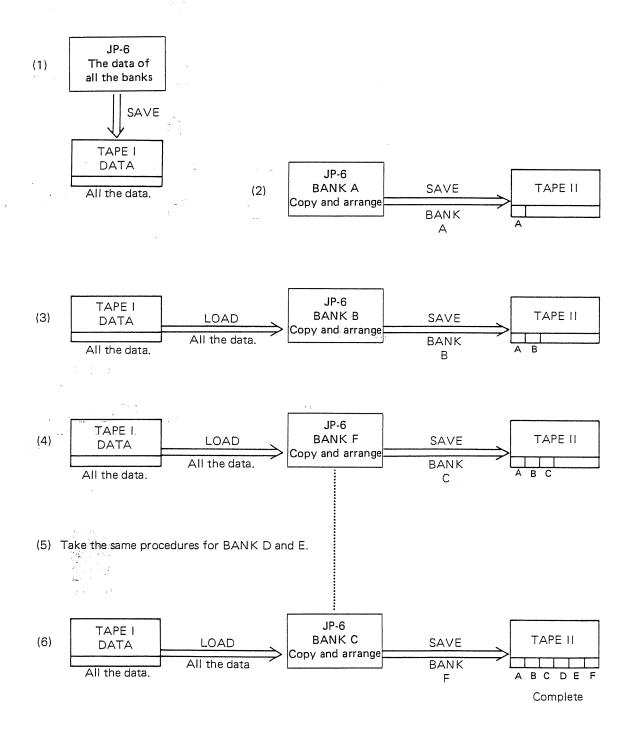
▶ Patch shift of the Patch Presets.



(B) Using the Tape Memory function

By saving and loading the Banks, it is possible to retain all the Patch Memories. *Collecting the Patches you like into one Bank without erasing any Patch Memory.

▶ Example Arranging the Banks without erasing the existing data.



- (1) Save all the Patch Memories into the Tape I.
- (2) Copy the Patches you like into Bank A, and save the whole Bank into the Tape II.
- (3) Load the data of the Tape I into the JP-6, and copy some Patches you like into Bank B. Then save the whole data of Bank B into the Tape II. In this case, save it just after Bank A data.
- (4) Load the data of the Tape I to the JP-6, and again select some patches you like and copy them into Bank C. Save the whole data of Bank C into the Tape I. Again be sure that it comes after Bank B data.
- (5) Repeat the same procedure for Bank D and E.
- (6) Load the data of the Tape I into the JP-6 and select the Patches you like and copy them into Bank F. Save the whole data of Bank F into the Tape II.

- *Now you can use the data of the Tape II at any time you need by loading the Bank data separately into the JP-6.
- *It is even more convenient to give a Data Name to each Bank data. For instance, you can give Data Name A to the Bank A data and Data Name B to the Bank B and so on. If you wish to load only the Bank B data, just assign the Data Name B, and play the tape from the beginning. Then only the Bank B data will be loaded. (If you choose the Data Name which is not saved in the tape, nothing will be loaded even though the tape is played up to the end.)

SPECIFICATIONS

Jupiter-6 6 Voice Programmable Polyphonic Synthesizer

Keyboard

61 key, 5 Octaves: C-scale

VOLUME

Manual Section

VCO-1 WAVEFORM (∼, ∕, ſШ, ſ∐)

RANGE (32' ~ 2' chromatic adjustment)

CROSS MOD (ENV-1, MANUAL)

V:CO-2 WAVEFORM (~, ∧, M, NOISE)

RANGE (Low, 32' ~ 2' chromatic adjustment, High)

High $2' \sim 0.5'$ or more Low 1.5Hz ~ 50Hz TUNE (± 50 cent)

SYNC VCO-1 → VCO-2

VCO-2 → VCO-1

VCO MOD LFO (10 oct.)

ENV-1 (5 oct.)

VCO MOD selector (VCO-1/VCO-2)

PWM PW (50% ~ 0%)

PWM

PWM selector (ENV-1/LFO)

MIXER SOURCE MIX (VCO-1, VCO-2)

VCF Mode (LPF/24dB, HPF/24dB, BPF/12dB)

CUTOFF FREQ (5Hz ~ 30kHz)

RESONANCE

ENV (10 oct. or more) ENV selector (ENV-1, ENV-2) LFO (10 oct. or more) KEY FOLLOW (0 ~ 120%)

VCA ENV-2 LEVEL (Max. 60dB)

LFO

ENV-1 (for VCO, VCF, PWM) Attack Time (Max. 18s)

Decay Time (Max. 20s)

Sustain Level

Release Time (Max. 20s) **KEY FOLLOW (0 ~ 120%)** POLARITY (∕~, √~)

ENV-2 (for VCF, VCA)

Attack Time (Max. 18s) Decay Time (Max. 20s)

Sustain Level

Release Time (Max. 20s) KEY FOLLOW (0 \sim 120%)

LFO-1 WAVEFORM (∼, ►, □, RANDOM)

RATE $(0.04 \sim 100 \text{Hz}, \text{RANDOM} = 0.04 \sim 400 \text{Hz})$

Delay Time $(0 \sim 2s)$

Memory Panel Section

Memory Patch Presets (Bank 4 x Patch Number 8=32 Presets)

Patch Memories (Bank 6 x Patch Number 8=48 Memories)

MANUAL button WRITE button

Memory Protect indicator

PANEL MODE

LOWER, UPPER

KEY MODE

SPLIT-1 (LOWER 4 notes, UPPER 2 notes) SPLIT-2 (LOWER 2 notes, UPPER 4 notes)

WHOLE

ASSIGN

Mode (SOLO, UNISON, SOLO-UNISON, POLY-1, POLY-2)

DETUNE (± 50 cent)

ARPEGGIO

RATE (1 ~ 25Hz) RANGE (1, 2, 3, 4 oct.)

Mode (UP, DOWN, U & D, D & U)

GLIDE

TIME $(0 \sim 1.6 \text{ sec/oct.})$

Mode (PORTAMENTO, GLISSANDO)

HOLD

HOLD button (ON/OFF)

BALANCE

UPPER/LOWER

BENDER

BENDER button (ON/OFF)

TAPE MEMORY

SAVE button VERIFY button LOAD button

TAPE MEMORY button

TUNING

TIME

MASTER TUNE (±50 cent)

Control Panel Section

BENDER

BENDER lever

BEND selector (VCO-1, VCO-2) BEND WIDE (± 3 oct. or more)

VCO SENS (± 1 oct.) VCF SENS (± 5 oct.)

LFO-2

MOD

VCO SENS (± 100 cent or more)

VCF SENS (\pm 4 oct.) RATE (1Hz \sim 10Hz) RISE TIME (50ms \sim 1 sec.)

Rear Panel

OUTPUT

1/4 Standard jack (level: 0/-15/-30 dBm)

XLR Connector (imp: 600Ω) Headphone jack (Stereo/8 Ω)

External Control

ARPEGGIO CLOCK IN (1 step/1 pulse = 2.5V or more)

PATCH SHIFT (DP-2) PEDAL HOLD (DP-2)

VCA CONTROL (-20dB, FV-200)

VCF CONTROL (+2 oct. ~ −6 oct., FV-200)

TAPE MEMORY

MEMORY PROTECT (ON/OFF/ON)

LOAD SAVE

MIDI

DIN Connector (OUT, IN)

POWER switch

Power Consumption

30W

Dimension

 $1063(W) \times 434(D) \times 120(H)$ mm $41-7/8(W) \times 17-1/16(D) \times 4-3/4(H)$ in.

Weight

16 kg/35 lb. 4 oz.

Accessories

Power cable, Connecting cord

Options

• Headphone RH-10

Aluminum Case TB-6





● Foot Volume FV-200 ● Pedal Switch DP-2





MODEL

JP-6 MIDI Implementation Chart

	Function	Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1, 2 ×	1, 2 ×	ver 1, 2 OLD MIDI
Mode	Default Messages Altered	3 OMNI OFF, POLY *******	1 OMNI ON∕OFF, POLY MONO→OMNI ON	
Note Number	True voice	36-96 *******	0-127 36-96	
Velocity	Note ON Note OFF	× 9n v=64 fixed × 9n v=0	×	n=0 or 1
After Touch	Key's Ch's	×	× ×	
Pitch Bende	r	×	×	
Control Change		×	× .	
Prog Change	True #	(0-31) *******	O (0-31) 0-31	
System Excl	usive	×	×	
System Common	Song Pos Song Sel Tune	× × O	× × O	
System Real Time	Clock Commands	×××	× ×	
Mes- A	ocal ON/OFF II Notes OFF ctive Sense eset	× (123) * × ×	× (123-127) ** × ×	** ver 1,2 : 125-127 ver 3,4 : 123-127
Notes		When Power up, next mo ver 1,2 POLY ON ver 3,4 All Notes C ver 1,2 : 127 ver 3 : 127, 124,	PFF, OMNI OFF, POLY ON	

Mode 1 : OMNI ON, POLY Mode 2 : OMNI ON, MONO

Mode 3 : OMNI OFF, POLY Mode 4 : OMNI OFF, MONO

○ : Yes

× : No

MODEL JP-6

MIDI Implementation

1.		NSMITTED DA				
State	is .	Second	Third	Description		
1001 1001	0000 0001	Okkk kkkk Okkk kkkk	0100 0000 0100 0000	Note on Note on (lower only) kkkkkkk = 36 - 96		
1001 1001	0000 0001	Okkk kkkk Okkk kkkk	0000 0000	Note off Note off (lower only) kkkkkkk = 36 - 96		
1100 1100	0000 0001	Оррр рррр Оррр рррр		Program Change Program Change ppppppp = 0 - 31		
	0000 0001	0111 1011 0111 1011		ALL NOTES OFF (lower only)		
1011 1011	0000 0001	0111 1100 0111 1100	0000 0000 0000 0000	OMNI OFF		
			0000 0000 0000 0000	POLY ON POLY ON		
1111	0110			Tune		
1	n WHOLE	ſmode, char	JP-6 sends mess anel 1 and 2 are aspectively.	ages in only channel 1. allocated to the upper and lower		
W	hen pov	ver is appli ch-1 AL	ied, following m LL NOTES OFF, OM	essages are sent. NI OFF, POLY ON		
W	When PATCH PRESET button is pressed, following messages are sent. OFF messages for being ON notes, ch-1 (and ch-2) ALL NOTES OFF, OMNI OFF, POLY ON ch-1 (and ch-2) PROGRAM CHANGE, NOTE ON messages for being pressed notes.					
W	hen all	notes turn	OFF.			
		ion	message	es .		
	3 4	ch-1 (o ch-1 (o	r ch-2) ALL NOTE r ch-2) ALL NOTE	ES OFF, OMNI OFF, POLY ON		

RECOGNIZED RECEIVE DATA

When power is first applied, receiver's mode is OMNI ON, POLY mode.

Status	Second	Third	Description
1000 00 1000 00 1000 nn	01 Okkk kkk	k Ovvv vvvv	
1001 00 1001 00 1001 nn	01 Okkk kkk	k 0000 0000	
1001 00 1001 00 1001 nn	01 Okkk kkki	k Ovvv vvvv k Ovvv vvvv k Ovvv vvvv	Note ON (lower only)
1100 000 1100 000 1100 nns	01 Оррр рррг	•	Program Change Program Change Program Change (in OMNI mode) ppppppp = 0 - 31
1011 000 1011 000			ALL NOTES OFF ALL NOTES OFF (lower only)
1011 000 1011 000			OMNI OFF (ALL NOTES OFF) OMNI OFF (ALL NOTES OFF)
1011 000 1011 000			OMNI ON (ALL NOTES OFF) OMNI ON (ALL NOTES OFF)
1011 000 1011 000			MONO ON (ALL NOTES OFF) MONO ON (ALL NOTES OFF)
1011 000 1011 000	00 .0111 1111 01 0111 1111	0000 0000 0000 0000	POLY ON (ALL NOTES OFF) POLY ON (ALL NOTES OFF)
1111 011	10		Tune

Notes:

Mode messages (123 - 127) are also recognized as All NOTES OF

Mode messages are recognized as follows:

				POL							
		(87C)	:				;	OMNI POLY			
OMNI	ON	(\$7D)	:	OMN I POLY	=	ON	i	OMN I POLY	÷	ON	

* In this mode, only 'POLY ON' message can change to OMNI OFF.

Recognized channels defer to the KEY mode and MIDI mode, as follows.

VE1 mode	MIDI mode	recognized channel voice messages	number mode messages
WHOLE	POLY, OMNI OFF	ch-1	ch-1, ch-2
	POLY, OMNI ON MONO, OMNI OFF MONO, OMNI ON	all channels	ch=1, ch=2
SPLIT	POLY, OMNI OFF	ch-1 for upper. ch-2 for lower	ch-1, ch-2
	POLY, OMNI ON MONO, OMNI OFF MONO, OMNI ON	all ch for upper	ch-1, ch-2

MODEL

JP-6

MIDI Implementation Chart

	Function	Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1, 2	1, 2	ver 1,2 : OLD MIDI (CH2 : Lower) *ver 1,2,3,4 : × 6 : ○
Mode	Default Messages Altered	3 OMNI OFF, POLY *******	* OMNI ON/OFF, POLY MONO→OMNI ON	*ver 1,2,3,4 : Mode 1 6 : Mode 3
Note Number	True voice	36-96 ******	0-127 36-96	The Note Number message that gives less than 5 ms from Note Of to Note OFF cannot be received
Velocity	Note ON Note OFF	× 9n v=64 fixed × 9n v=0	×	ver 1,2,3,4 : n=0or1 ver 6 : n changes depending on the channel setting
After Touch	Key's Ch's	×	×	
Pitch Bend	er	×	×	
Control Change		×	× .	
Prog Change	True #	(0-31) *******	○ (0-31) 0-31 ×	
System Ex		X		
System Common	Song Pos Song Sel Tune	× × O	× × O	
System Real Time	Clock Commands	×	×	
Mes-	Local ON/OFF All Notes OFF Active Sense Reset	× (123) * × ×	× (123-127) ** × ×	** ver 1,2 : 125-127 OLD MIDI ver 3, : 123-127 ver 4,6 : 123-127MIDI 1.0
Notes		* ver 1,2 : 127	ode messages are sent. OFF, OMNI OFF, POLY ON 123 ver 4,6: 123	

Mode 1 : OMNI ON, POLY Mode 2 : OMNI ON, MONO Mada 2 . OMNII OFF POLY

Mode 4 : OMNI OFF, MONO

× : No

MODEL JP-6

MIDI Implementation

	Second Third	Description	
1001 bbbb	0kkk kkkk 0100 0000 0kkk kkkk 0100 0000	Note on Note on (lower only) kkkkkkk = 36 - 96	, ris
		Note off Note off kkkkkkk = 36 - 96	
	Oppp pppp Oppp pppp	Program Change Program Change PPPPPPP = 0 - 31	:
1011 aaaa 1011 bbbb	0111 1011 0000 0000 0111 1011 0000 0000	ALL NOTES OFF ALL NOTES OFF (lower only)	
1011 aaaa 1011 bbbb	0111 1100 0000 0000 0111 1100 0000 0000	OMNI OFF	:
	0111 1111 0000 0000 0111 1111 0000 0000	POLY ON POLY ON	i
1111 0110		Tune	
notes:	version 3,4 version]]]
8888		channel - 1	
bbbb	if aaa	over is applied, sees = 0000	1 1 1
In foll and bbbb +	owing description, 'A' and l respectively.		•
In WHOL	E mode the IP-6 cond-	ages in only channel A	1
In SPLI half of the	T mode, channel A and B are keyboard respectively. Whe	ages in only channel A. allocated to the upper and lower re A is aaaa + 1, B is bbbb + 1.	1
When po	wer is applied, following mach-1 ALL NOTES OFF, OMI	Accorded the same same	1
hen MIDI cl	nannel is changed, following	T MARGARAS AND SONT (NAME)	1:
	Old ch-A (and ch-R) ALL NOT	PPS OFF OMNI OFF BOLK OF	1
	New ch-A (and ch-B) ALL NOT NOTE ON messages for being		10
hen PATCH F	RESET button is pressed, fo	llowing messages are sent.	11
		OTES, DFF, OMNI OFF, POLY ON NGE	
	RESET button is pressed, fo OFF messages for being ON n ch-A (and ch-B) ALL NOTES O ch-A (and ch-B) PROGRAM CHA	OTES, DFF, OMNI OFF, POLY ON NGE	13
hen all not Version	RESET button is pressed, fo OFF messages for being ON n ch-A (and ch-B) ALL NOTES O ch-A (and ch-B) PROGRAM CHA NOTE ON messages for being es turn OFF.	IOTES, FF, OMNI OFF, POLY ON NGE, pressed notes.	13
hen all not Version	RESET button is pressed, fo OFF messages for being ON n ch-A (and ch-B) ALI NOTES O ch-A (and ch-B) PROGRAM CHA NOTE ON messages for being es turn OFF.	IOTES, FF, OMNI OFF, POLY ON NGE, pressed notes.	13

```
RECOGNIZED RECEIVE DATA
           When power is first applied, receiver's mode is set as follows:

Version Mode -----
                  3,4
                                               OMNI ON, POLY
OMNI OFF, POLY
OMNI ON, POLY (While 'TUNE' button is pressed.)
          When MIDI channel is changed, the OMNI mode will be turned OFF.
  Status
                         Second
                                               Third
  1000 aaaa
1000 bbbb
1000 nnnn
                        Okkk kkkk
Okkk kkkk
Okkk kkkk
                                                                           Note OFF
Note OFF (lower only)
Note OFF (in OMNI mode)
kkkkkkk = 0 - 127 (36 - 96)
velocity ignored
  1001 sasa
1001 bbbb
1001 nnnn
                                                                           Note OFF
Note OFF (lower only)
Note OFF (in OMNI mode)
kkkkkk = 0 - 127 (36 - 96)
velocity ignored
                                              0000 0000
0000 0000
0000 0000
                       Okkk kkkk
Okkk kkkk
Okkk kkkk
                                                                           Note ON
Note ON (lower only)
Note ON (in OMNI mode)
kkkkkk = 0 - 127 (36 - 96)
vvvvvvv = 1 - 127, velocity ignored
                                              1100 mama
1100 bbbb
1100 nnnn
                                                                           Program Change
Program Change
Program Change (in OMNI mode)
ppppppp = 0 - 31
                       0111 1011
0111 1011
                                                                           ALL NOTES OFF
ALL NOTES OFF (lower only)
                                                                           OMNI OFF (ALL NOTES OFF)
OMNI OFF (ALL NOTES OFF)
                                             0000 0000
                      0111 1110
0111 1110
                      0111 1111
0111 1111
  111 0110
                             version 3,4
                             0000
                                                           MIDI channel - 1
                                                           aaaa + 1
if aaaa = 1111, then bbbb = 0000
When power is applied, aaaa = 0000
  nnnn : 0000 - 1111
In following description, 'A' and 'B' represent agas + 1 and bbbb + 1 respectively.
```

Mode messages (123 - 127) are also recognized as ALL NOTES OFF.

Mode messages are recognized as follows:

	POLY ON	MONO ON
OMNI OFF (\$7	(C) : OMNI = OFF : POLY	OMNI = ON *
OMNI ON (\$7	D) : OMNI = ON : POLY	: OMNI = ON : POLY

* In this mode, only 'POLY ON' message can change to OMNI OFF.

Recognized channels defer to the KEY mode and MIDI mode, as follows:

KEY mode	MIDI mode	recognized channel number voice messages mode message			
WHOLE	POLY, OMNI OFF	ch-A	ch-A, ch-B		
	POLY, OMNI ON MONO, OMNI OFF MONO, OMNI ON	all channels	ch-A, ch-B		
SPLIT	POLY, OMNI OFF	ch-A for upper, ch-B for lower	ch-A, ch-B		
	POLY, OMNI ON MONO, OMNI OFF MONO, OMNI ON	all ch for upper	ch-A, ch-B		

		,

Roland® 10172

PC

10172



10981