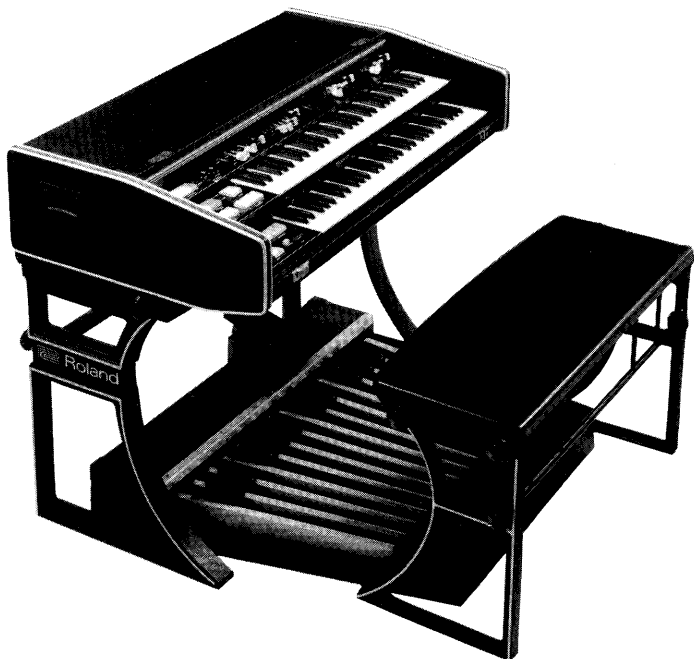


ORGAN VK-9 INSTRUCTIONS



FEATURES

VK-9 is a new professional type organ, featuring, first of all, high tone quality.

It is capable of simultaneous performance with an external synthesizer, and also produces special effects by connecting external effect units.

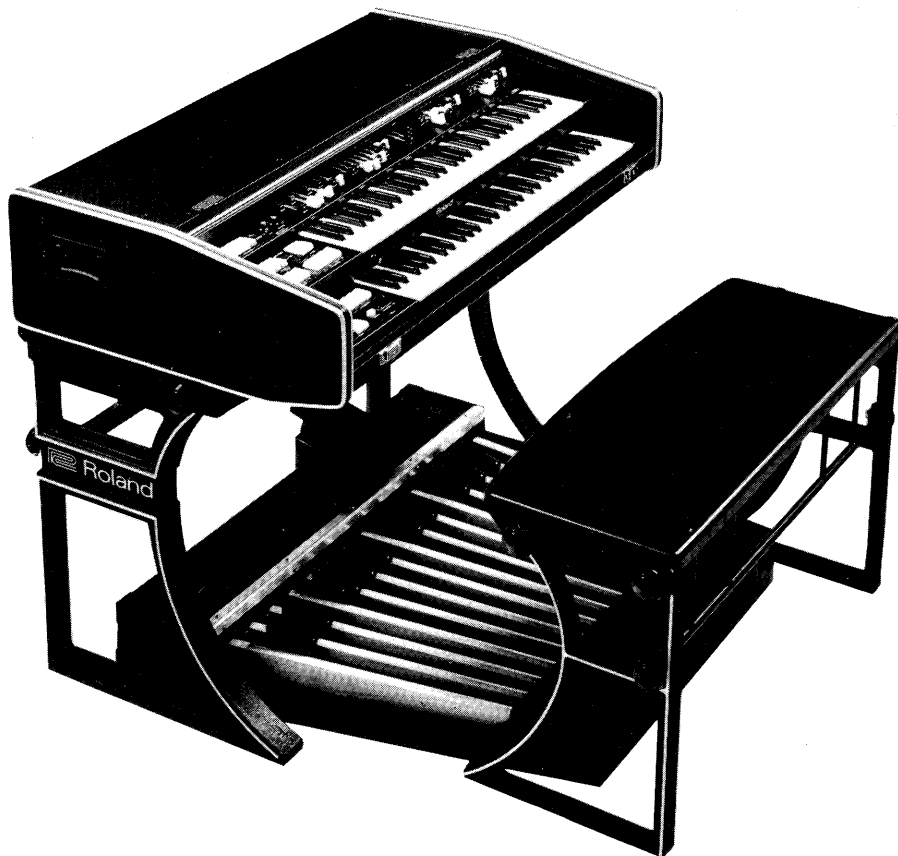
Furthermore, you can create sound such as a bell, chime, etc. which you are unable to produce from combinations of ordinary drawbars.

Use of exclusive. Revo Sound System RD Series is recommended to make the best use of the excellent performance of VK-9. It is also possible to use other types of speaker systems.

CONTENTS

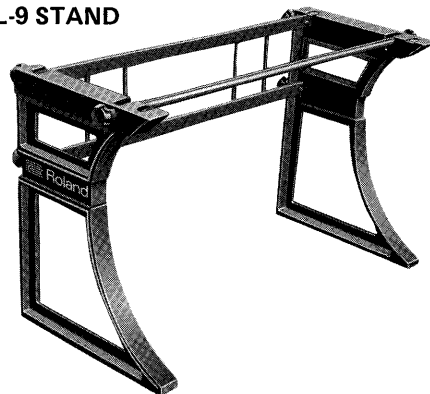
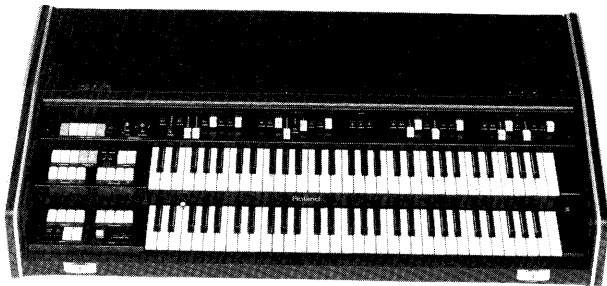
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MODELS OF ORGAN AND ATTACHMENTS



VK-9 ORGAN PROPER

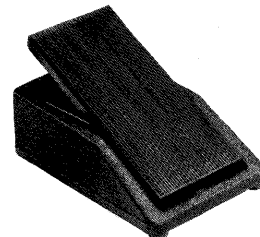
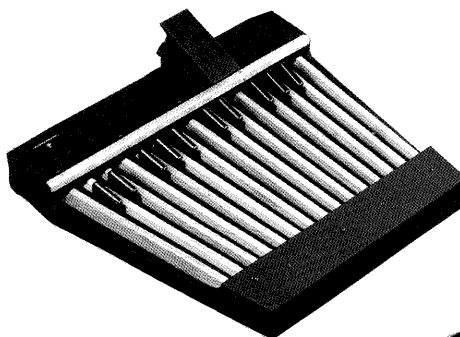
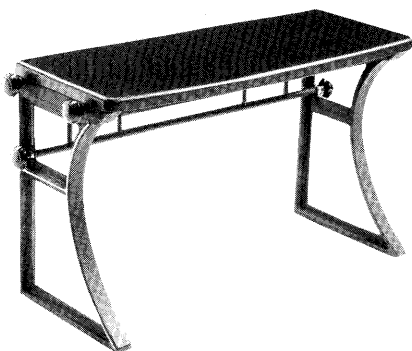
VKL-9 STAND



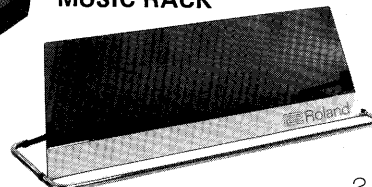
VKB-9 BENCH

VKP-9 PEDAL BOARD

VKE-1 EXPRESSION PEDAL

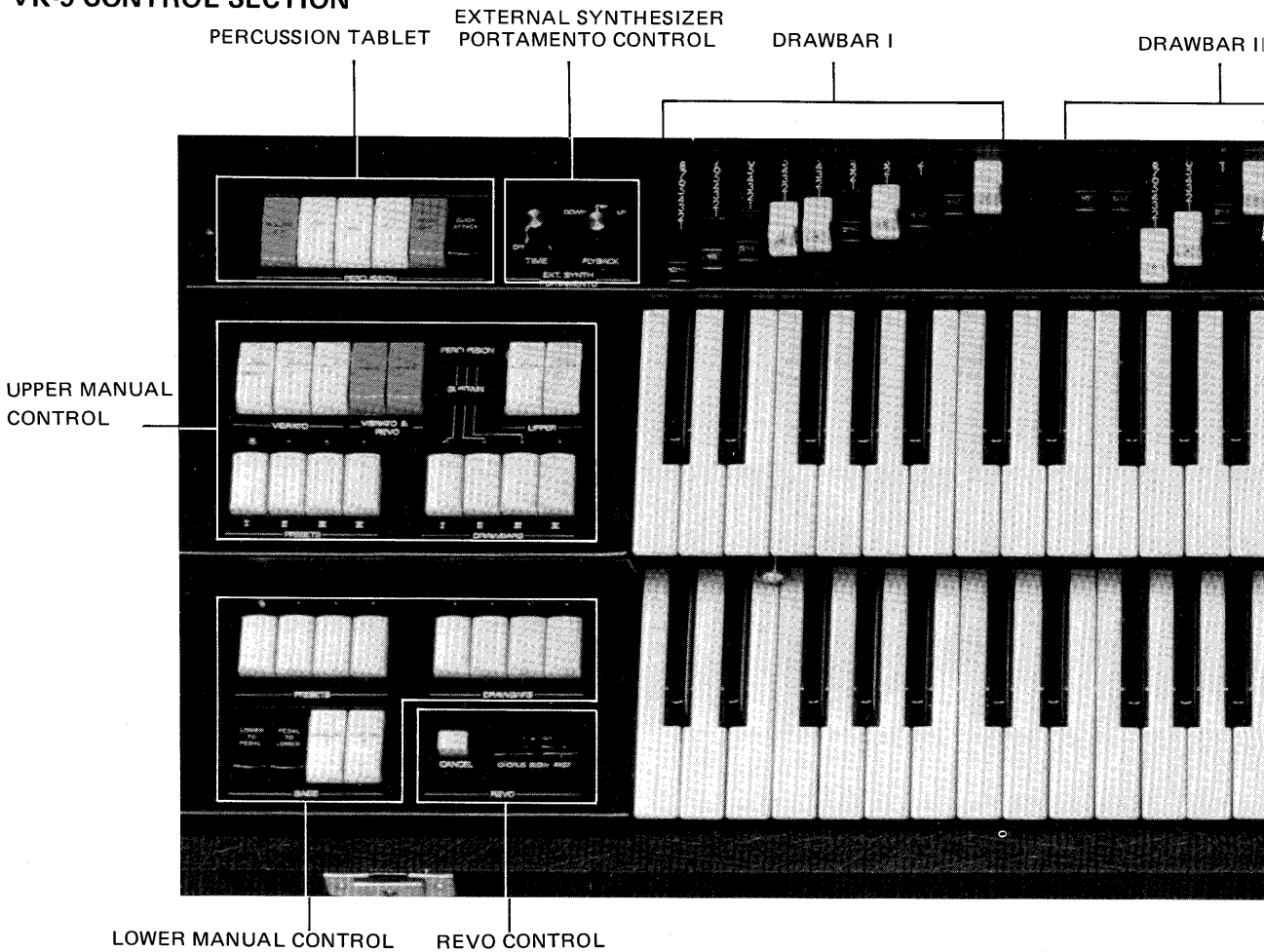


MUSIC RACK



CONTROLS AND FUNCTIONS

VK-9 CONTROL SECTION



PERCUSSION

PERCUSSION produces striking effect of percussion instruments and it slowly ebbs away like a piano or guitar.

2ND

4' sound is obtained as PERCUSSION.

3RD

2-2/3' sound is obtained as PERCUSSION.

5TH

1-3/5' sound is obtained as PERCUSSION.

VOLUME SOFT

This tablet reduces PERCUSSION sound.

DECAY FAST

This tablet shortens the decay time of PERCUSSION.

CLICK ATTACK

With this tablet on, click sound (chattering) is obtained when a key is depressed.

* CLICK ATTACK is produced on upper manual, without regard to setting of other controls.

* The PERCUSSION sound can be added to one of the drawbar sets, I, II, or III, which is set by PERCUSSION SELECTOR situated at the left of the upper manual.

VIBRATO

CHORUS/VIBRATO

When this tablet is pushed on the front, VIBRATO effect goes on.

When pushed on the back, CHORUS effect is activated.

DEPTH I, II

These tablets determine the depth of VIBRATO or CHORUS effect.

DEPTH I shallow effect

DEPTH II deeper effect

DEPTH I + DEPTH II the deepest effect.

UPPER

With this tablet on, VIBRATO/CHORUS, or REVO SOUND results from the upper manual.

LOWER

With this tablet on, VIBRATO/CHORUS, or REVO SOUND results from the lower manual.

* The UPPER and LOWER tablets are set on when pushed on the front.

* The REVO effect is obtained only when RD series sound system is connected.

UPPER MANUAL SUSTAIN I, II

With these tablets on, SUSTAIN effect is brought into operation after key is released.

SUSTAIN I short sustain

SUSTAIN II longer sustain

SUSTAIN I + SUSTAIN II the longest sustain.

* SUSTAIN can be effected only on upper manual.

PERCUSSION SELECTOR

This control determines one of the drawbar sets I, II and III, on which PERCUSSION sound is to be added.

SUSTAIN SELECTOR

This control determines one of the drawbar sets I, II and III to be sustained.

PRESETS I, II, III, IV

When one of these tablets is set on, the corresponding PRESET tone is ready to sound.

* The tone settings can be varied if you like.

DRAWBARS I, II, III, IV

When one of these tablets is set on, the corresponding tone prepared by the drawbars is ready to sound.

* Thus, you can select one sound out of eight voices: four preset sounds and four drawbar sets. If two or more

BASS DRAWBAR

DRAWBAR III

DRAWBAR IV



LOWER MANUAL

UPPER MANUAL

tablets are pushed at one time, the last-pushed tablet has the priority, and it is indicated by the indicator.

EXT SYNTH PORTAMENTO

FLYBACK (UP/DOWN)

UP PORTAMENTO is effected only when a key higher than the last-played note is depressed.

DOWN . . . PORTAMENTO is effected only when a key lower than the last-played note is depressed.

* At OFF position, PORTAMENTO is effected for both of the above.

TIME

This knob controls the PORTAMENTO time. As it is turned clockwise (○), PORTAMENTO becomes slower.

At OFF position, PORTAMENTO is not effected.

TUNE

The organ pitch can be adjusted within a margin of approximately 300 cents up or down. This is also efficient when special effect is desirable.

LOWER MANUAL

PRESETS I, II, III, IV

When one of these tablets is set on, the

corresponding PRESET tone is produced.

DRAWBARS I, II, III, IV

When one of these tablets is set on, the corresponding tone prepared by the drawbars is ready to sound.

* Thus you can select one sound out of eight voices: four preset sounds and four drawbar sets. If two or more tablets are pushed at one time, the last-pushed tablet has the priority, and it is indicated by the indicator.

BASS

ENVELOPE I

With this tablet on, ATTACK effect is added to the bass sound.

ENVELOPE II

With this tablet on, SUSTAIN effect is added to the bass sound.

* When both tablets are set on at a time, both ATTACK and SUSTAIN effects are added to the bass sound.

LOWER TO PEDAL

When this tablet is set on, sounds of last two octaves of lower manual can be played on pedal board.

* Bass sound prepared by bass drawbars is also produced simultaneously.

PEDAL TO LOWER

When this tablet is set on, bass sound can be produced on the keys of last two octaves of lower manual.

* Sounds for the lower manual are also produced simultaneously.

* At this time, the bass sound is only a single tone with the lowest tone having the priority.

REVO CONTROLLER

When Revo Sound System RD series is connected, this controller provides selection of normal/rotary/chorus and setting of fast/slow of rotary sound at the player's position.

(Leslie Model 710 can also be connected.)

CANCEL

When this button is depressed, REVO effect is cancelled. Push again to get effect. The REVO effect shifts gradually, guaranteeing smooth performance.

CHORUS

Chorus effect with sufficient depth.

SLOW

Slow rotary sound is obtained.

FAST

Fast rotary sound is obtained.

CONTROLS AND FUNCTIONS

VK-9 REAR PANEL



BRILLIANCE

With this control, the sound of all notes is changed to brilliant tone. The degree of brilliance is increased as the knob is turned clockwise (◻).

* This is adjusted at factory before shipment, however, you can re-adjust it as you like, using a screwdriver.

OUTPUT

LEVEL

The output level can be adjusted by this switch to meet the amplifier you connect.

BASS

Jack for lower range sound only.

* When this jack is used, only middle and treble sounds are produced through NORMAL jack.

NORMAL

Jack for normal, full-range sound.

* When BASS jack is used, lower range sound is cut out.

FOR SYNTH U MANUAL

This section contains outputs for external synthesizer.

KCV/GATE

Connect to KCV/GATE inputs of external synthesizer, which can be played by upper manual of VK-9.

DRAWBAR I, II, III

The external synthesizer can be controlled when DRAWBAR I, II, or III is selected on the control panel and the same is selected by this switch. For example, select DRAWBAR II on the control panel and set this SELECTOR to

DRAWBAR II, for simultaneous playing of VK-9 and the external synthesizer.

EXT EXP PEDAL

When pedal board is not used, connect Expression Pedal VKE-1 to this jack.

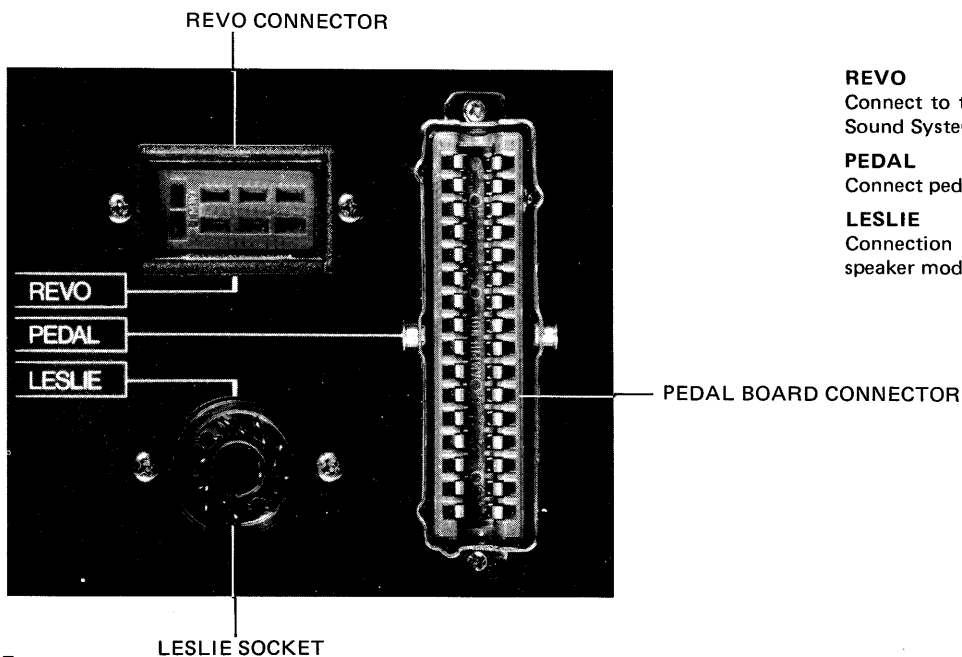
EXT IN - BEFORE/AFTER

Connect external instrument (Roland synthesizer, strings, rhythm, etc.) to these jacks.

When connected to BEFORE EXPRESSION jack, the volume of the device together with the volume of organ itself is controlled by EXPRESSION PEDAL.

When connected to AFTER EXPRESSION jack, the volume of the device is produced at a constant level without regard to adjustment of the organ volume by EXPRESSION PEDAL.

CONNECTION PANEL



REVO

Connect to this jack when you use Revo Sound System RD series.

PEDAL

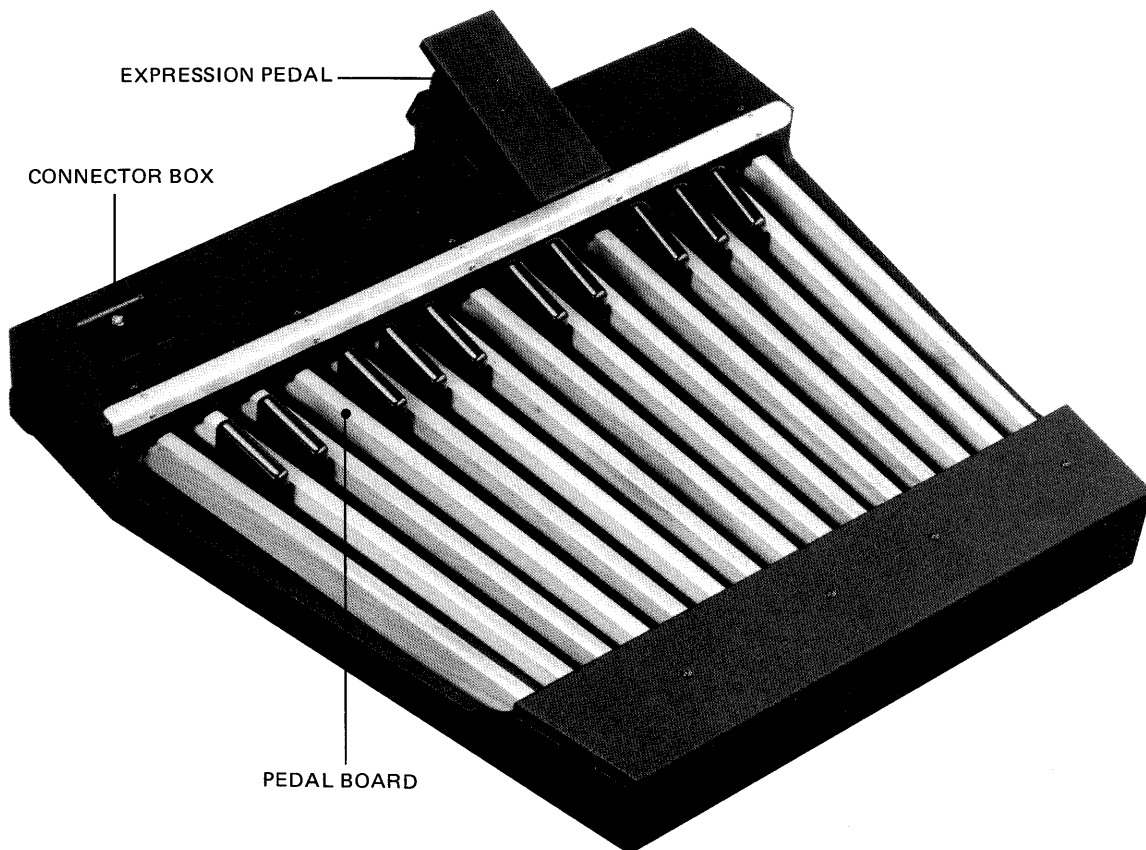
Connect pedal board, if you use.

LESLIE

Connection socket exclusive for Leslie speaker model 710.

CONTROLS AND FUNCTIONS

PEDAL BOARD



PEDAL BOARD

Pedal board with 25 notes, C-scale.

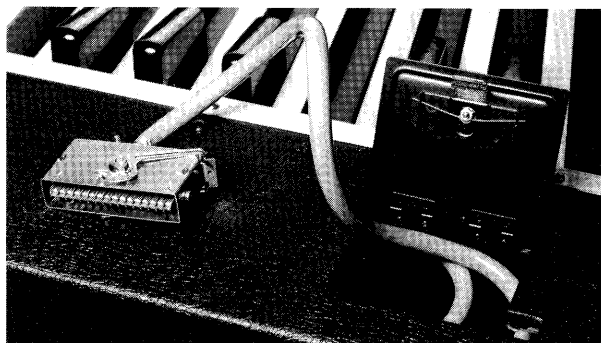
The sound from the pedal board can be freely adjusted by BASS DRAWBARS. Also the pedal board can duplicate last two octave keys of the LOWER MANUAL.

CONNECTOR BOX

Housing for connector to VK-9.

* When not using the connector, keep it in this box to prevent possible breakage.

CONNECTOR



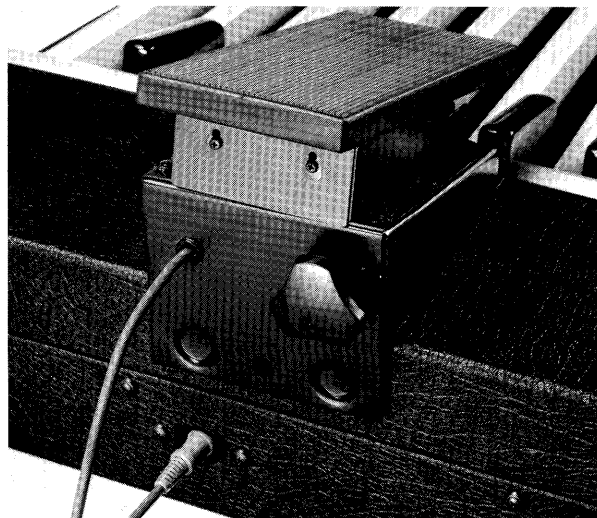
Connect to PEDAL CONNECTOR on VK-9.

EXPRESSION VKE-1

This is used when VK-9 is played without pedal board. Connect the connection cord to expression jack on the VK-9 rear panel.



EXPRESSION PEDAL VKE-9 FOR PEDAL BOARD

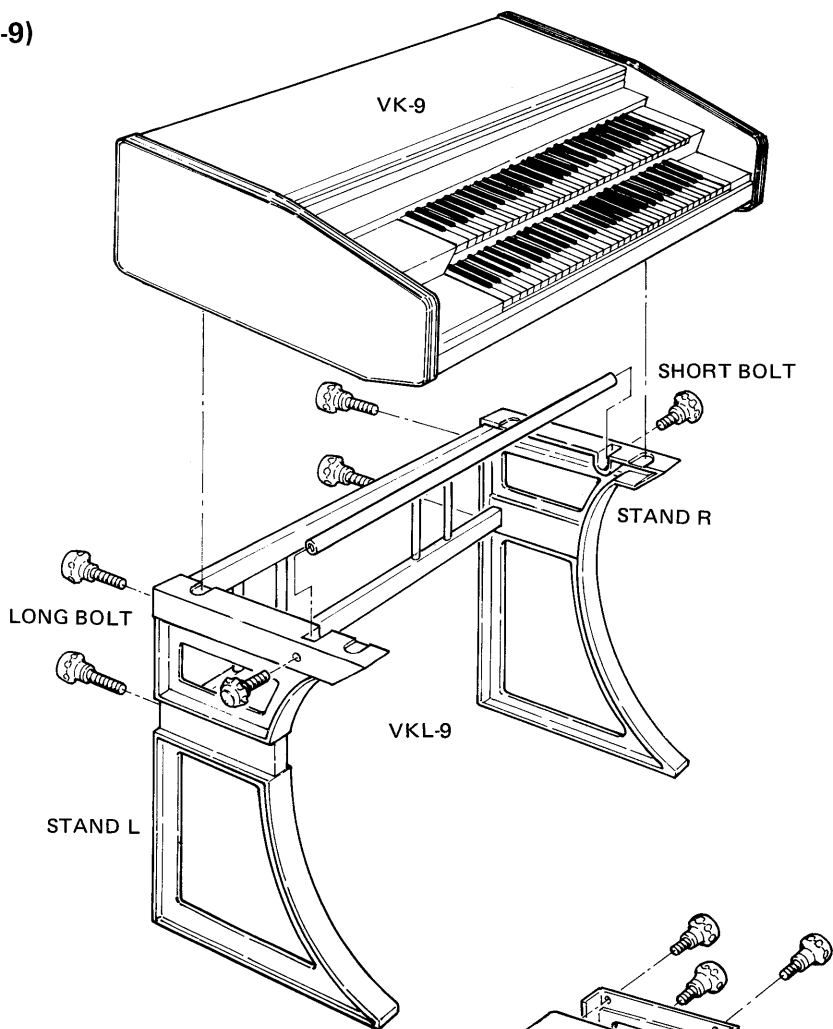


Expression pedal exclusive for pedal board VKP-9. When this pedal is trod deeper, the organ volume is increased, and vice versa.

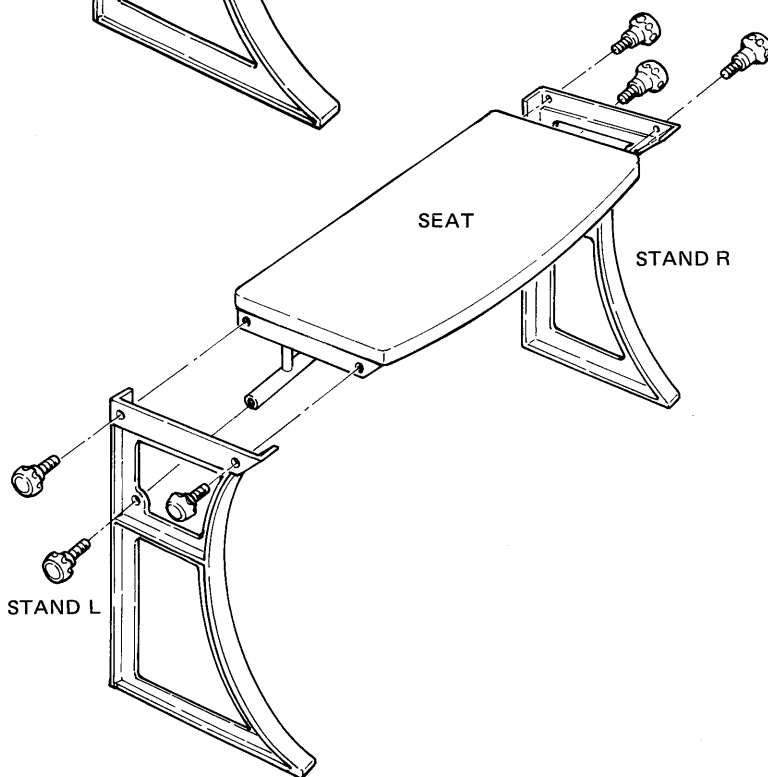
HOW TO MOUNT:

Mount VKE-9 on pedal board using screws provided and connect the cord.

**HOW TO ASSEMBLE:
(VK-9 + VKL-9)**



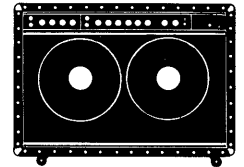
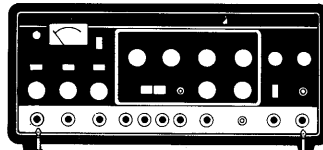
VKB-9



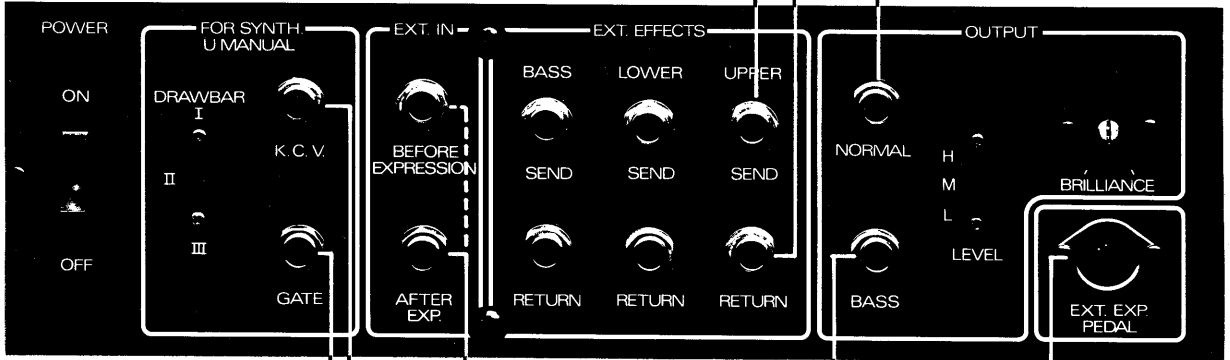
CONNECTION METHOD

REAR PANEL

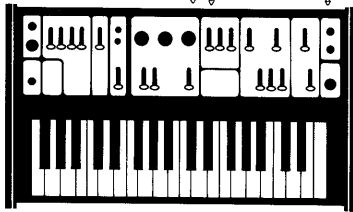
Connect external effects unit:
 Roland echo chamber RE series, Boss series, etc.
 * Make sure to connect from SEND to INPUT and from OUTPUT to RETURN.



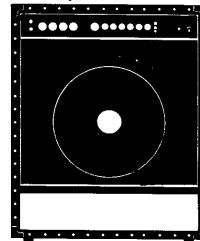
For NORMAL output, Roland guitar amplifier JC or SR series is best suited.



Connect Synthesizer Line Output to Before/After Exp jack.



Connect external synthesizer:
 Roland synthesizer, SYSTEM 100/700, SH-5, etc.
 * See Connection Chart.

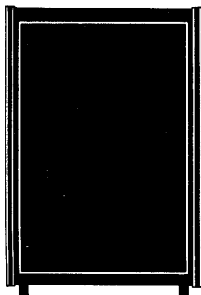


For BASS output, Roland RB series or SB-100 is best suited.
 When connecting external amplifier, set Output Level switch to proper position.

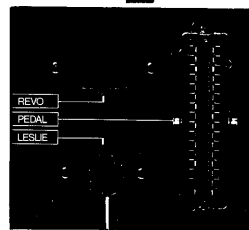


Connect Expression Pedal VKE-1.
 * When VKE-9 is connected to Pedal Board, VKE-1 is unnecessary.

CONNECTION PANEL

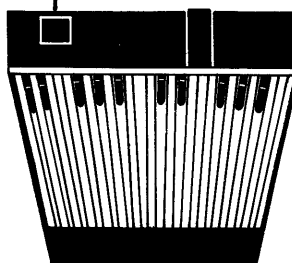
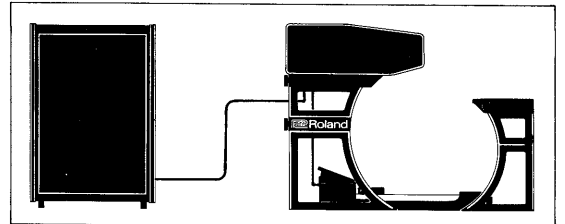


Connect Revo Sound System RD series. For chorus effect, use of two Revo's placed apart is very efficient to obtain stereophonic sound, making it possible to create excellent sound space around the stage.



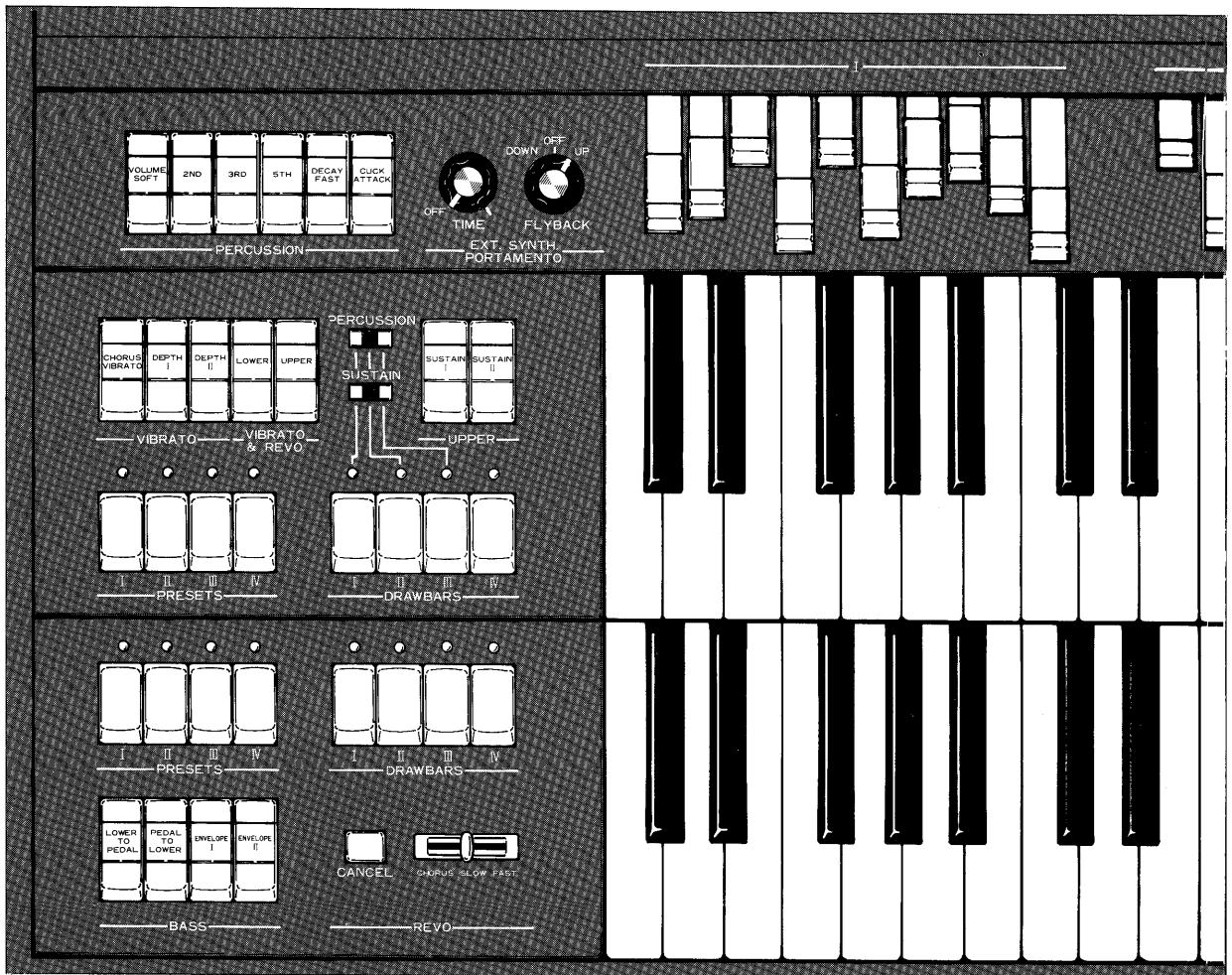
Leslie Model 710 can also be connected.

CONNECTING REVO SOUND SYSTEM



Connect Pedal Board. Mount Expression Pedal VKE-9 for Pedal Board, too.

PLAYING VK-9



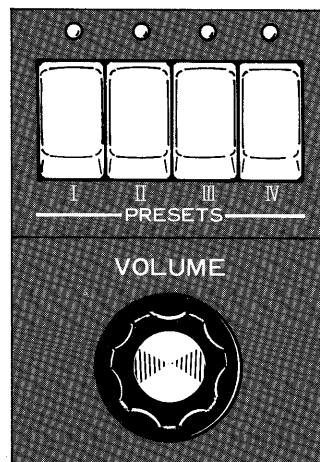
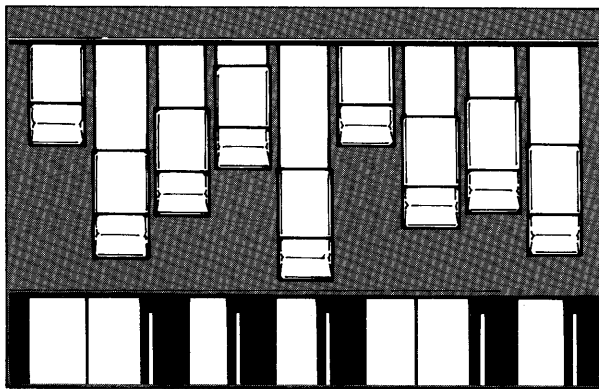
After completing connection of all cords required, set knobs and tablets on the control panel as illustrated above. Make sure Power Switch is set OFF. Plug in AC cord to outlet.

Set Power Switch ON.

Indicator for PRESET I for both upper and lower manuals will light.

Now your VK-9 is ready to produce sound.

TO OBTAIN DRAWBAR SOUND



1 Set the sound as you like by pulling out each drawbar.
* See details on drawbars on page 13.

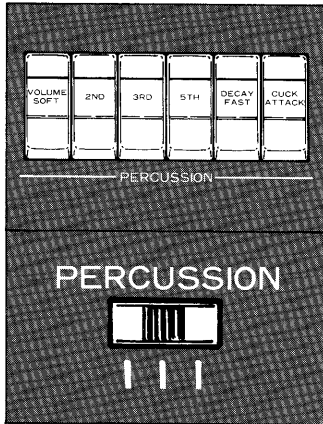
2

Select the sound out of eight voices for upper and lower manuals each as you like.

3

While rocking Expression Pedal, set volume controls of VK-9 and amplifier to proper level.

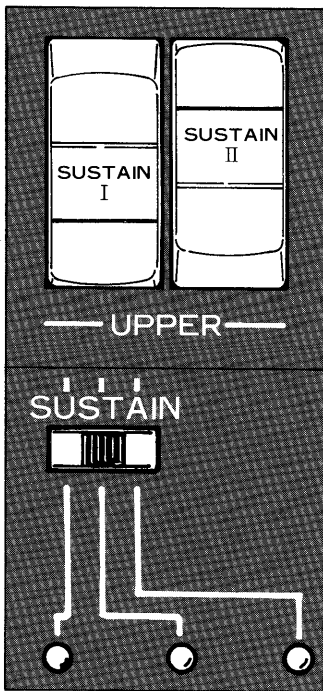
TO OBTAIN PERCUSSION



4
After steps 1-3 for setting drawbars, set appropriate PERCUSSION tablet to ON (push on the front).

5
Set PERCUSSION SELECTOR to proper position.
*PERCUSSION sound cannot be added to PRESET tablets.
* See details on PERCUSSION on page 12.

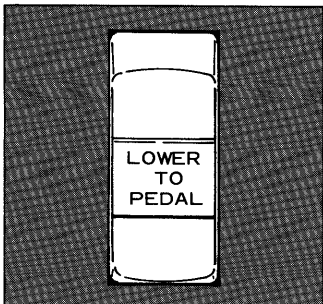
TO ADD SUSTAIN EFFECT



6
After steps 1-3, set SUSTAIN I or II tablet to ON (push on the front).

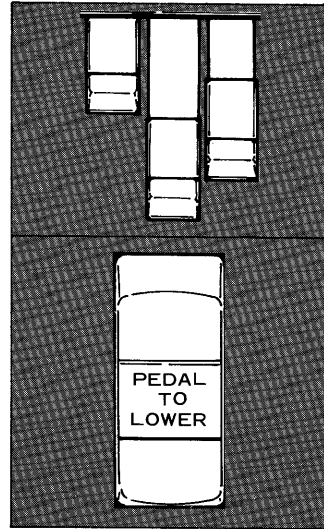
7
Set SUSTAIN SELECTOR to proper position.
* UPPER MANUAL PRESET I is sustained at all times. Other PRESET tablets cannot be effected by SUSTAIN.
* See details on SUSTAIN on page 12.

TO PLAY LAST TWO OCTAVES ON PEDAL BOARD



8
After steps 1-3, set LOWER TO PEDAL tablet to ON (push on the front). By playing pedal key with your foot, respective sound is produced.
* At this time, you can play multiple-performance.

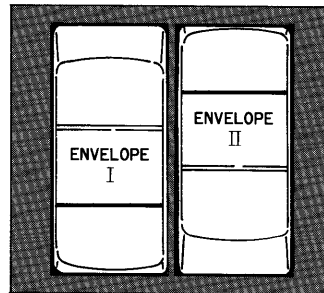
TO PLAY PEDAL BASS SOUND ON LAST TWO OCTAVES OF LOWER MANUAL



9
After steps 1-3, set the bass sound as you like by pulling out each bass drawbar.

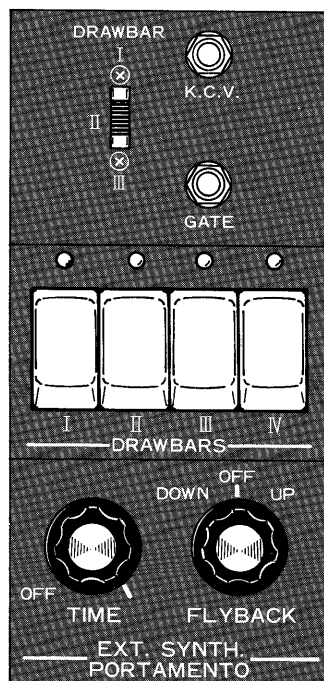
10
Set PEDAL TO LOWER tablet to ON (push on the front). By playing lower manual, bass sound is produced.

TO OBTAIN SUSTAIN AND ATTACK EFFECTS FOR BASS SOUND



11
After steps 9-10, set ENVELOPE I tablet to ON for attack effect and ENVELOPE II tablet, for sustain effect. When both I and II are set to ON, the two effects are obtained.

TO PLAY SYNTHESIZER SIMULTANEOUSLY

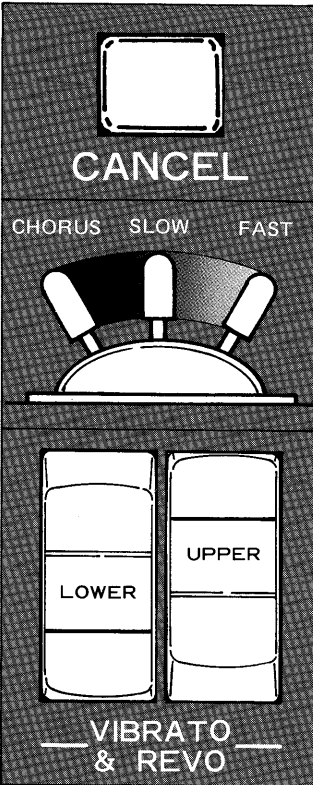


12
Connect KCV and GATE outputs to respective input jacks of external synthesizer. Select DRAWBAR I, II or III by DRAWBAR SELECTOR as you like.

13
Set DRAWBARS tablet which is selected by DRAWBAR SELECTOR.

14 15
Select desirable portamento mode by FLYBACK knob. Set PORTAMENTO TIME knob to proper position. Now, external synthesizer is played by the upper manual, to realize simultaneous performance.
* With FLYBACK at OFF, portamento is effected constantly.
* When all drawbars are pushed in, only synthesizer sound is produced.

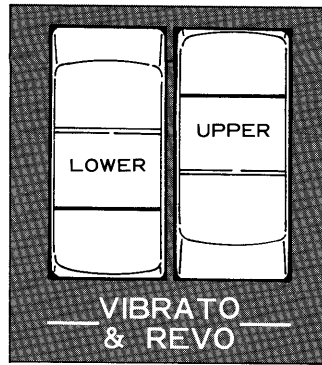
TO OBTAIN REVO SOUND



16
After steps 1-3, push CANCEL button to put on REVO.

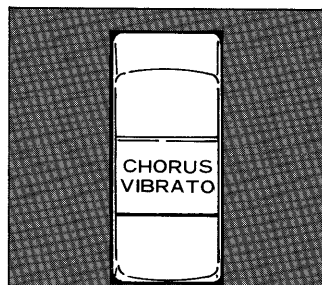
17
Set REVO SELECTOR to proper position.

18
Set UPPER and LOWER tablets to VIBRATO & REVO side (push on the front). Now Revo effect can be activated.

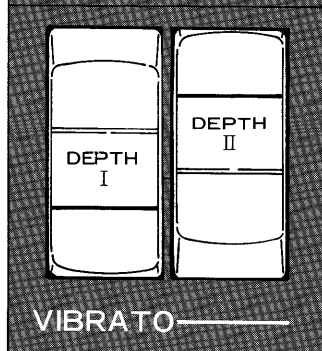


22
Set UPPER and LOWER tablets to VIBRATO & REVO side (push on the front).

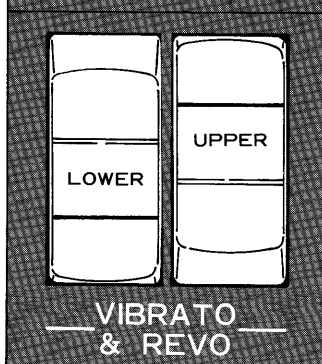
TO OBTAIN VIBRATO EFFECT



23
After steps 1-3, CHORUS/VIBRATO tablet to VIBRATO side (push on the front).

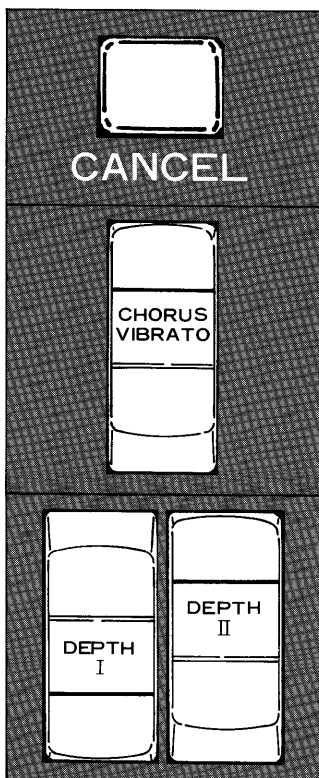


24
Set DEPTH I or II tablet to ON (push on the front).



25
Set UPPER and LOWER tablet to VIBRATO & REVO side (push on the front). Now VIBRATO effect can be activated.

TO OBTAIN CHORUS EFFECT WITHOUT CONNECTING REVO SYSTEM



19
After steps 1-3, push CANCEL button.

20
Set CHORUS/VIBRATO tablet to CHORUS side (push on the back).

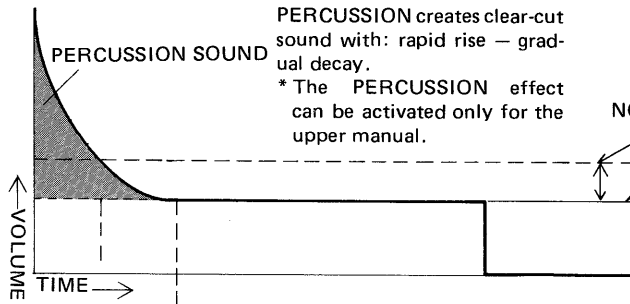
21
Set DEPTH I or II tablet to ON (push on the front). Now Chorus effect can be activated.

TO OBTAIN EACH EFFECT FOR EITHER UPPER OR LOWER MANUAL

- By setting UPPER tablet only, respective effect can be added only for the upper manual.
- By setting LOWER tablet only, respective effect can be added only for the lower manual.

ADJUSTING EFFECTS

- WITH 2ND, 3RD or 5TH-TABLET AT ON



PERCUSSION

PERCUSSION creates clear-cut sound with: rapid rise — gradual decay.

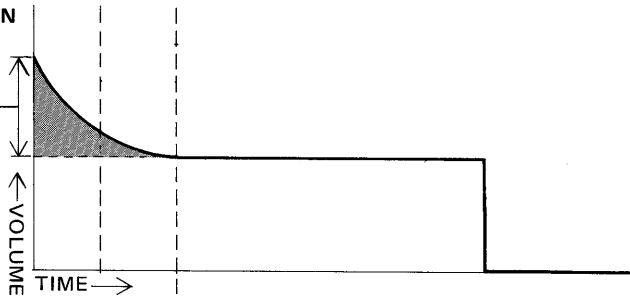
* The PERCUSSION effect can be activated only for the upper manual.

NO-PERCUSSION SOUND LEVEL

ACTUAL VOLUME LEVEL

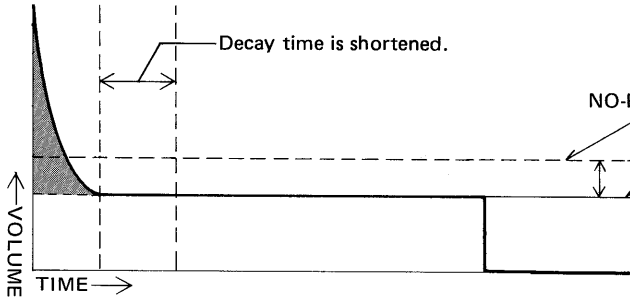
- WITH VOLUME SOFT AT ON

Effect sound level is reduced.



- WITH DECAY FAST AT ON

Decay time is shortened.

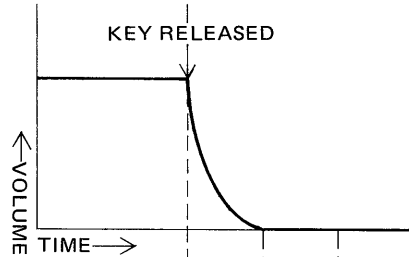


NO-PERCUSSION SOUND LEVEL

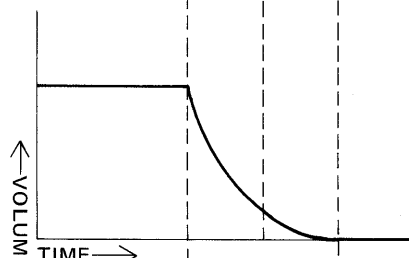
ACTUAL VOLUME LEVEL

SUSTAIN

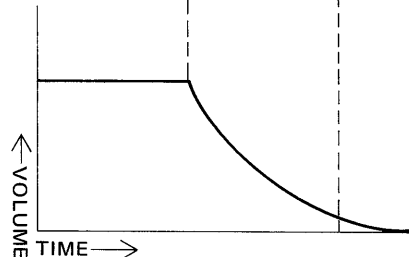
- WITH SUSTAIN I AT ON



- WITH SUSTAIN II AT ON

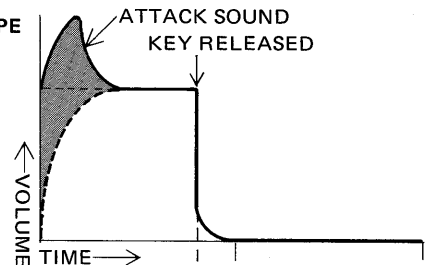


- WITH SUSTAIN I AND II AT ON

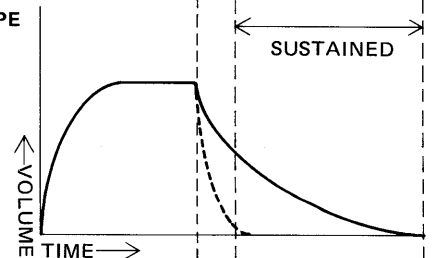


ENVELOPE

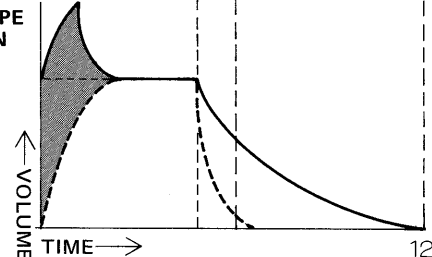
- WITH ENVELOPE I AT ON



- WITH ENVELOPE II AT ON

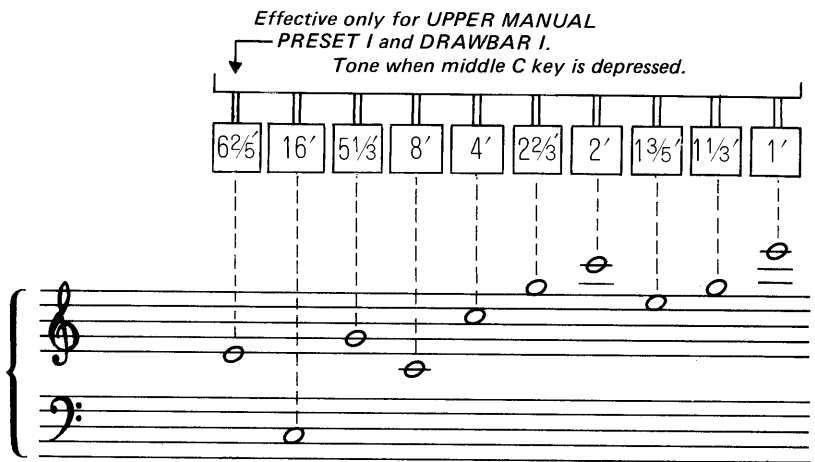


- WITH ENVELOPE I AND II AT ON



SETTING DRAWBARS

The VK-9 organ sound is determined by DRAWBAR SET I, II, III and IV; BASS DRAWBARS; and PRESET I, II, III, and IV. The drawbar type control makes it possible to vary the tone even during performance without difficulty. Further when prompt change is desired, simply pushing the DRAWBAR/PRESET tablet is enough.

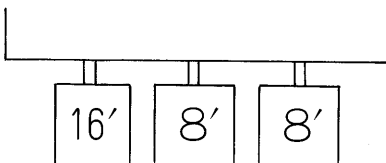


Each drawbar contains respective pure tone (sine wave) as shown on the right. By properly combining each pure tone, unlimited varieties of tones can be produced. 6-2/5' is not normal harmonics. This is used for making sound of a chime, etc. with 4' as the basis.

	6 2/5'	16'	5 1/3'	8'	4'	2 2/3'	2'	1 3/5'	1 1/3'	1'
CHIME	6	0 0	0 8 7 6	5 4 4						
CLARINET		0 1	8 0 6 0	2 3 0						
FULL TIBIAS		8 0	6 8 0 6	0 0 0						
TRUMPET		0 0	6 8 8 8	6 6 6						

BASS DRAWBARS

By free combinations of three bass drawbars and also ENVELOPE tablets, various bass sounds can be produced.

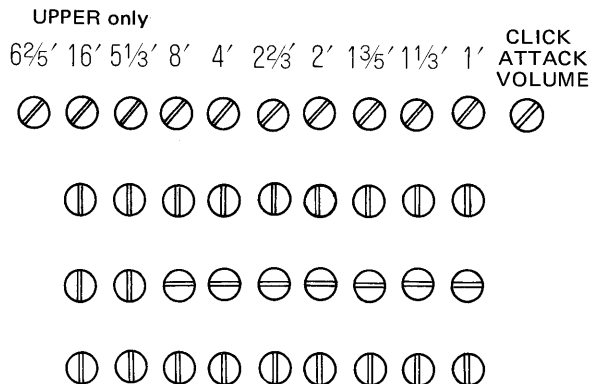


Right 8' drawbar is for bright tone containing few harmonics.
Center 8' drawbar is for clear flute tone.
Left 16' drawbar is for heavy bass tone.

PRESET DRAWBARS

The preset tones are set as shown on the right at factory before shipment, however, they can be varied by adjusting trimmer pots inside the unit.

* If you vary the tone, turn the trimmer pots while consulting the produced tone, using a (-) screwdriver.



TROUBLESHOOTING GUIDE

If your VK-9 doesn't produce sound as you hope, take proper action consulting the table below. The symptom listed would be caused by mistake in using the unit. If the trouble cannot be

remedied even after the actions instructed, or if any trouble other than those listed below occurs, make contact with the shop you bought your VK-9.

SYMPTOM	POSSIBLE CAUSE	ACTION TO BE TAKEN
Even when power switch is set on, pilot lamp lights, but depressing keys does not produce sound.	<ol style="list-style-type: none"> 1. Imperfect connection of connection cords. <ul style="list-style-type: none"> ● Imperfect connection with external amplifier/speaker. 2. Drawbars are not pulled out. 3. Volume is set to minimum. 4. Expression Pedal is not tread. 	<ol style="list-style-type: none"> 1. Connect cords perfectly. (See Connection Method on page 8.) 2. Pull out drawbars. 3. Turn volume clockwise (↻) to raise volume. 4. Tread down Expression Pedal.
Sound rustles.	<p>Imperfect connection of connection cords. Defective connection cord.</p>	<p>Connect cords perfectly. Replace cord.</p>
Does not match in tune with other instruments.	Imperfect tuning.	Correctly tune by turning Tuning knob clockwise (↻) or counterclockwise (↺).
Output is too big (small) when connected to external amplifier.	Mismatching of output level.	Set Output Level Changeover Switch to proper position to meet the sensitivity of the external amplifier.
External synthesizer sound is not produced	<ol style="list-style-type: none"> 1. Imperfect connection of connection cords. 2. DRAWBAR SELECTOR is not set to position. 	<ol style="list-style-type: none"> 1. Perfectly connect KCV and GATE outputs of VK-9 to KCV and GATE inputs of external synthesizer. 2. Set DRAWBAR SELECTOR to the position which is selected on control panel.
Volume is not changed even when Expression Pedal is moved.	<ol style="list-style-type: none"> 1. Imperfect connection of connection cord. 2. Volume is set to minimum. 	<ol style="list-style-type: none"> 1. Connect cord perfectly. 2. Turn volume clockwise (↻) to raise volume.
Pedal board does not produce sound.	<ol style="list-style-type: none"> 1. Imperfect connection of connection cords. 2. Bass Drawbars are not pulled out. 	<ol style="list-style-type: none"> 1. Connect cords perfectly. (See Connection Method on page 8.) 2. Pull out Bass Drawbars.

SPECIFICATIONS**VK-9 (ORGAN + STAND)****• KEYBOARD**

Upper manual: 61 notes (C scale)
 Lower manual: 61 notes (C scale)
 Pedal board: 25 notes (C scale)

• MANUAL DRAWBAR

I, II, III, IV, each with
 6-2/5' (I only), 16', 5-1/3', 8', 4', 2-2/3', 2', 1-3/5', 1-1/3', 1'

• BASS DRAWBAR

Flute 16', 8'; Bright 8'

• PRESET

Upper manual: I - Chime; II - Trumpet;
 III - Full Tibias; IV - Theater Brass
 Lower manual: I - Dulciana; II - Open Diapason;
 III - Full Accompaniment; IV - Bombarde

** Each timbre is readjustable.*

• PERCUSSION

Click attack; Decay fast; 2ND (4'); 3RD (2-2/3'); 5TH
 (1-3/5'); Volume soft

• EXTERNAL SYNTHESIZER PORTAMENTO

Time; Flyback

• UPPER SUSTAIN I, II**• PERCUSSION/SUSTAIN SELECTOR****• BASS**

Lower To Pedal; Pedal To Lower; Envelope I, II

• REVO CONTROL

Revo (Leslie) Cancel; Chorus; Slow; Fast

• VIBRATO

Chorus/Vibrato; Depth I, II
 VIBRATO & REVO: Lower; Upper

CONNECTION SOCKETS**• OUTPUT**

Revo (8P); Leslie (9P); Normal; Bass

• EXTERNAL EFFECTS

Upper (Send/Return)
 Lower (Send/Return)
 Bass (Send/Return)

• EXTERNAL INPUT

Before Expression; After Expression

• EXTERNAL SYNTHESIZER CONTROL JACKS

KCV/GATE

• OTHERS

Brilliance; Pedal Connector; Output Level Changeover
 Switch; Drawbar Selector (I, II, III); Volume; Organ Tune;
 Power Switch

• POWER CONSUMPTION

37W

• DIMENSIONS

1,290(W) x 270/1,000(H, excl/incl stand) x 745(D)mm
 50.8(W) x 10.6/39.4(H, excl/incl stand) x 29.4(D)in

• WEIGHT

72.6kg, 160lbs.

• ACCESSORY

Exclusive stand

VKP-9 (PEDAL BOARD + EXPRESSION PEDAL)**• KEYBOARD**

25 notes (C scale)

• DIMENSIONS

1025/750(W) x 145/102(H) x 930(D)mm
 40.3/29.6(W) x 5.7/4.2(H) x 36.6(D)in

• WEIGHT

45kg, 99lbs

• ACCESSORY

Exclusive expression pedal (Weight: 200g, 0.44lbs); Vinyl
 cover; Connection cord

VKB-9 (BENCH)**• SEAT****• STAND****• BACK RAIL****• KNOB BOLT****• ASSEMBLY DIMENSIONS**

1,080(W) x 95/180(H) x 400(D)mm
 42.5(W) x 3.7/7.1(H) x 15.8(D)in

• WEIGHT

10.5kg, 23.2lbs

VKE-1 (EXPRESSION PEDAL)**• CONNECTION CORD****• DIMENSIONS**

158(W) x 95/180(H) x 290(D)mm
 6.2(W) x 3.7/7.1(H) x 9.5(D)in.

* Specifications are subject to change without notice.