

**TEISCO**

*Synthesizer*

**S-100P**

**OWNER'S MANUAL**



Thank you for your selection of SYNTHESIZER 100P designed as pre-set type. 100P is capable of producing virtually any sound imaginable-musical instruments, wind, wave, human voices and realistic synthesizer tones – in easy operation. Read this manual carefully and try on your own experiment and create practically.

---

## FEATURES

---

- The 100P is the preset type synthesizer and you can switch the tone very instantly.
- This 100P gives you not only Portamento effects but Glissando.
- Flanger and Reverb circuits are installed.
- Transpose Switch provides the same effects as the keyboard with 5 octaves.
- 32 kinds of pre-set sound from Trombone to Synthe-Sound IV— provide the vast range of tonal possibilities. Especially Horn, Piano and Voice are the unique characteristic tone compared with the conventional synthesizer.
- Touch-effect enables delicate choking play.
- If you connect this 100P to an electronic organ which you have, you will get unlimited tonal variety.

---

## CONTENTS

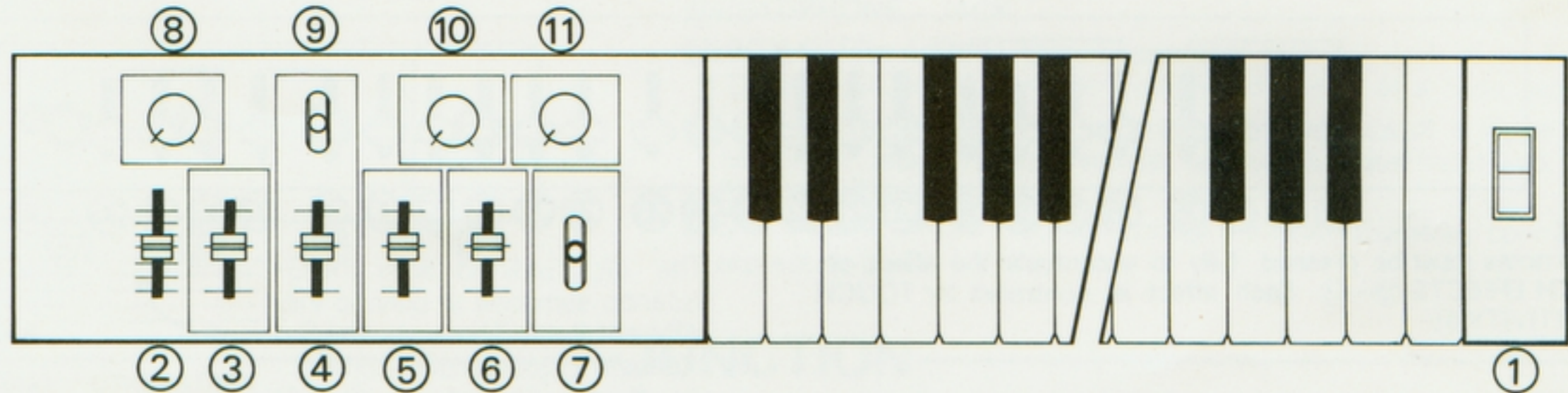
---

1. Introduction & Features
2. Functions & Works 1. (Upper Panel)
3. Functions & Works 2. (Front Panel)
4. Functions & Works 3. (Rear Panel)  
Junction. Fuse (How to replace)
5. Creation of special sounds.
6. Specifications



# FUNCTIONS & WORKS 1 (Upper Panel)

Fig. 1



\*①Through ⑩ indicated in illust' are number of Switches and Controls. Read the following explanation carefully.

- ① **POWER SWITCH:** Sets at "ON", a lamp lights.
- ② **VOLUME:** Controls volume.
- ③ **BRILLIANCE:** Controls tone from mellow-sound to bright-sound on the basis of center "N". \* Tone volume of Flute, Piccolo or Whistle are downed when setting to the Mellow side.
- ④ **PORTAMENTO/GLISSANDO CONTROL:** Controls the interval of the pitch movement. \* Ref.⑨⑱
- ⑤ **MOD.SPEED:** Controls the speed affected by TOUCH EFFECTS ⑫~⑮ and REPEAT⑱. \* Ref.⑫~⑮⑱
- ⑥ **PITCH BEND:** Enables to slide up and down on the basis of center "N". When you use this control in your play, you will get the effect of guitar like choking. \* Ref.⑧
- ⑦ **TRANSPOSE:** Sets at "UP," all keys sound one octave higher. Sets at "DOWN", sound one octave lower. Accordingly provides the 5 octaves (100P with 3 octaves). Keep the key pressed while you use this, you will get Portamento (Glissando) effect. \* Ref.⑱

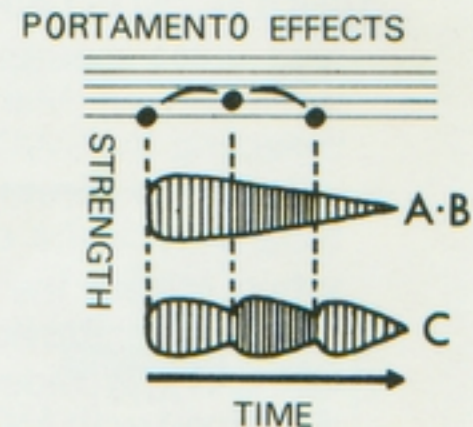
⑧ **TUNE:** Since the pitch is changeable about semitone from up to down, you can adjust the pitch to another instruments. Please set PITCH BEND ⑥ at Center "N" when tuning.  
\* Ref.⑥

⑨ **MODE SELECTOR:** Provides the different Portamento (Glissando) effect according to the way of pressing the key.  
A...available staccato and legato style  
B...available only legato style  
C...as same as B, but C provides greater emphasis when using the Piano, Guitar, Banjo tones and so on. When PORTAMENTO/GLISSANDO④ in "Short" position for Portamento, you can get attack sound and in "Long" position for Glissando. \* Ref.④⑱

⑩ **REVERB:** Controls Reverb effect.

⑪ **TOUCH SENSITIVITY:** Controls the effect of TOUCH EFFECTS⑫~⑮. \* Ref.⑫~⑮

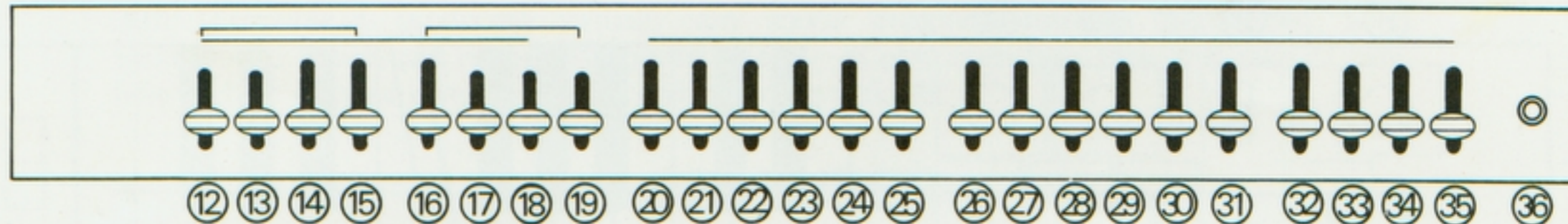
Fig. 2





# FUNCTIONS & WORKS 2 (Front Panel)

Fig.3



\* The notes must be pressed fully to accentuate the effect of TOUCH EFFECTS ⑫~⑮ Each effect is controlled by TOUCH SENSITIVITY ⑪

- ⑫ **GROWL**: Provides growl sound by pressing fully the keys.
- ⑬ **VIBRATO**: Provides Vibrato effect by pressing fully the keys
- ⑭ **WOW / BRILLIANCE**: Provides Wow & Brilliance effects which means accentuate BRILLIANCE ③ by pressing fully the keys.
- ⑮ **BEND UP / BEND DOWN**: When in the "UP" position a tone raises higher and in the "DOWN" position it downs lower by pressing fully the keys.

\* Sets each Switch of EFFECTS ⑯~⑲ to get the effects.

- ⑯ **HOLD / SUSTAIN**: Keeps the tone of the note you play until you press the next Key. This makes easy for you to operate while playing. Make sure to turn on the Hold Switch after selecting the SWITCH ⑳~㉓ This Hold Switch doesn't affects, the percussive sound such as PIANO or BANJO. The SUSTAIN is the effect that the tone gradually fade away when release the key.
- ⑰ **FLANGER**: Provides the effect of Flanger.
- ⑱ **REPEAT**: Provides repeat effect and can controls the effect combined with MOD. SPEED ⑤ It especially affects the Banjo tone or so on. \* Ref. ⑤
- ⑲ **PORTAMENTO / GLISSANDO**: The Portamento controls the tone to slide in an extreme legato style from one note to another.

The GLISSANDO does the Glissando semitone at playing the different Keys. These are the Synthesizer characteristic. Controls the effect combined with ④ & ⑨.



PORTAMENTO GLISSANDO

Fig.4

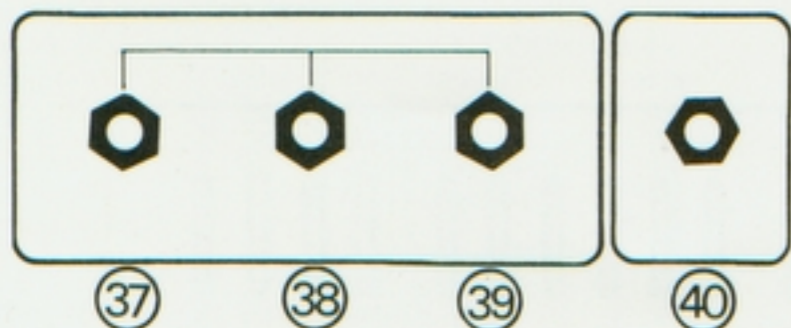
\* TONE SWITCHES ⑳~㉓ are characterized by 32 Kind of pre-set sound. When you use more than one switch at one time, always the right side voice sounds.

- ⑳ **TROMBONE / TUBA**
- ㉑ **SAX / BASSOON**
- ㉒ **TRUMPET / MUTE TRUMPET**
- ㉓ **HORN / SHAKUHACHI (BAMBOO FLUTE)**
- ㉔ **CLARINET / OBOE**
- ㉕ **FLUTE / PICCOLO**
- ㉖ **VIOLIN / CELLO**
- ㉗ **ELECTRIC BASS / WOOD BASS**
- ㉘ **FUZZ GUITAR / HAWAIIAN GUITAR**
- ㉙ **PIANO / ACCORDION**
- ㉚ **SITAR / BANJO**
- ㉛ **VIBRAPHONE / GLOCKEN**
- ㉜ **WHISTLE / VOICE**
- ㉝ **WAVE / WIND**
- ㉞ **SYNTHESIZER SOUND I / SYNTHESIZER SOUND II**
- ㉟ **SYNTHESIZER SOUND III / SYNTHESIZER SOUND IV**
- ㊱ **PILOT LAMP**: Turn on the Power Switch, then a lamp



# FUNCTIONS & WORKS 3 ( Rear Panel )

Fig.5



- ③⑦ HEADPHONE JACK
- ③⑧ HIGH OUT(+4dBm): Used to connect to Input Jack of an Electronic Organ, Aux Jack of an Audio System and Line In of a Tape-recorder.
- ③⑨ LOW OUT(-20dBm): Use to connect to Input Jack of a Guitar Amp., Mic Input Jack of a Tape-recorder and Mic & Guitar Input Jack of an Electronic Organ.
- ④⑩ EXP. PEDAL JACK: You can control the tone Volume by connecting expression pedal.

## JUNCTION

\* Since the monitor speaker is not installed in 100P, Please connect with the speaker system of Amp., Organ or use Head-

phone. Up to the speaker system, the tone might be changed.

- ③⑦ HEADPHONE → Head phone (8Ω)
- ③⑧ HIGHOUT(+4dBm/1KΩ) → Input Jack of Electronic Organ  
→ Aux Jack of Audio System  
→ Line In of Tape-recorder
- ③⑨ LOWOUT(-20dBm/1KΩ) → Input Jack of Guitar Amp.  
→ Mic. Input Jack of Tape-recorder  
→ Mic. or Guitar Input Jack of Electronic Organ

## FUSES (How to replace)

- Turn off the switch and disconnect the power supply cord.
- As the Fig.6, remove the upper side cover.
- Replace it in the wiring board of the back side as Fig.7.  
Use the same type fuse (0.5A).
- Please ask the dealer, if fuses are often out of order.

Fig.6

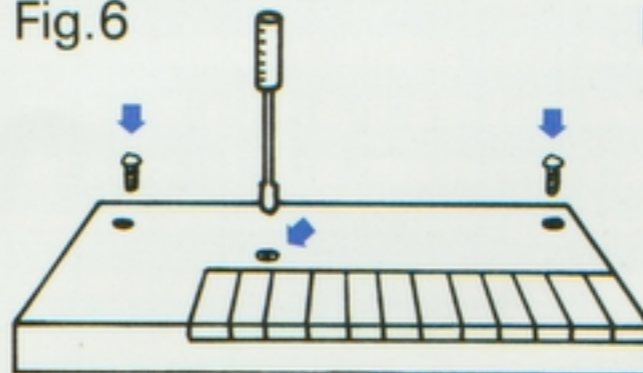
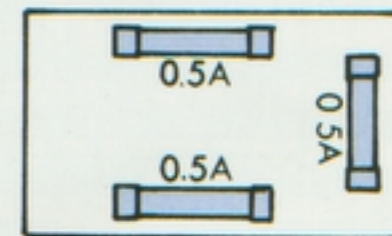


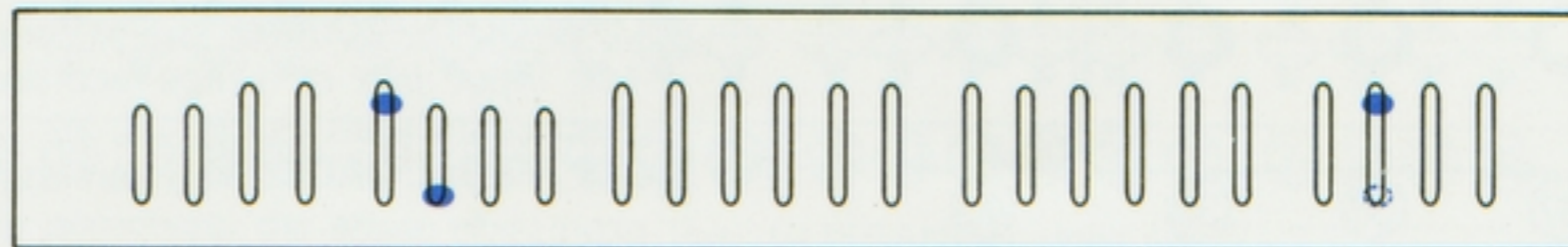
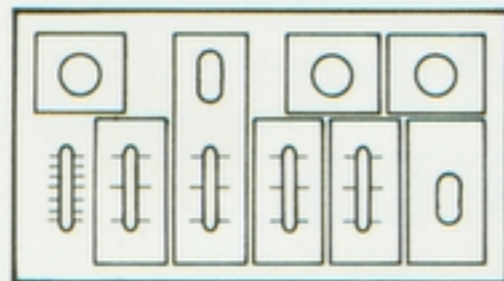
Fig.7



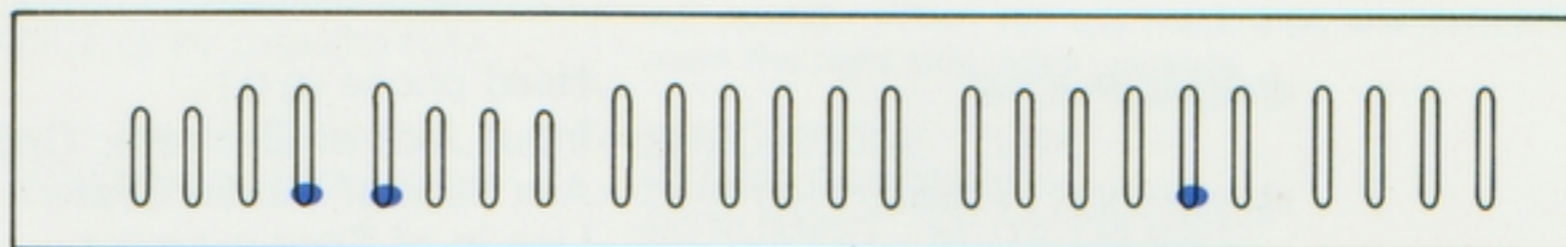
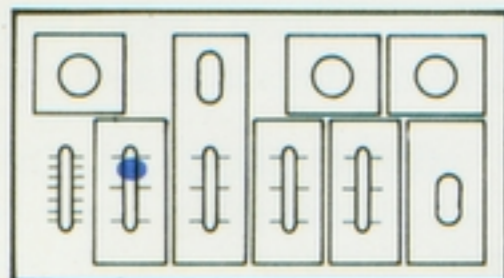


# CREATION OF SPECIAL SOUNDS

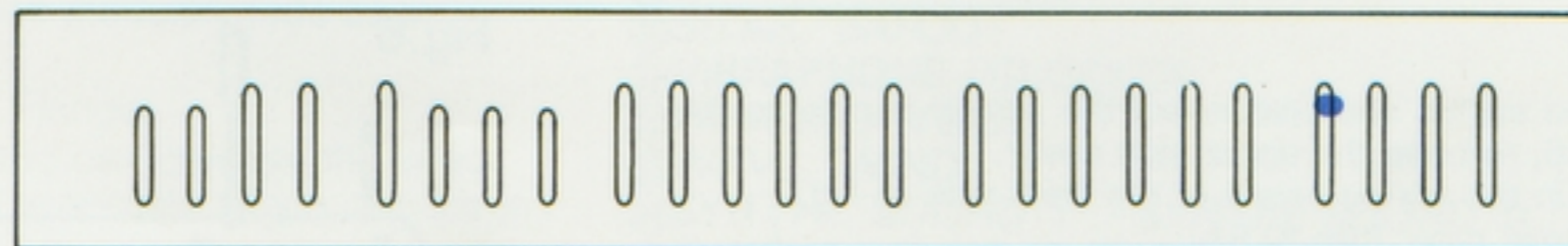
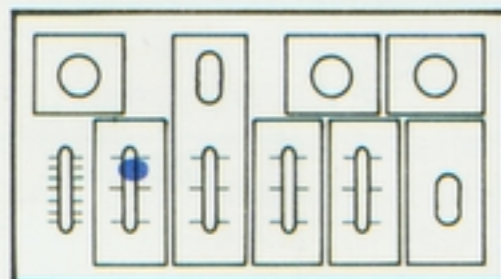
## EXAMPLE 1 JET PLANE



## EXAMPLE 2 SHAMISEN (play powerfully as tapping the keys.)



## EXAMPLE 3 SCAT





# SPECIFICATIONS

## 1. KEYBOARDS

37 Keys, 3 Octaves, C to C

## 2. PRESET TONE SWITCHES

\*\*\* UP \*\*\*

Voices	Pitch
TROMBONE	32'
SAX	32'
TRUMPET	16'
HORN	16'
CLARINET	16'
FLUTE	8'
VIOLIN	8'
ELECTRIC BASS	64'
FUZZ GUITAR	16'
PIANO	16'
SITAR	16'
VIBRAPHONE	8'
WHISTLE	4'
WAVE	NOISE
SYNTHESOUND I	16'
SYNTHESOUND III	16'

\*\*\* DOWN \*\*\*

Voices	pitch
TUBA	64'
BASSOON	64'
MUTE TRUMPET	16'
SHAKUHACHI	16'
OBOE	8'
PICCOLO	4'
CELLO	32'
WOOD BASS	64'
HAWAIIAN GUITAR	8'
ACCORDION	16'
BANJO	16'
GLOCKEN	2'
VOICES	16'
WIND	NOISE
SYNTHESOUND II	32'
SYNTHESOUND IV	16'



## 3. EFFECTS

\*\*\* Levers \*\*\*

HOLD/SUSTAIN  
FLANGER  
REPEAT  
PORTAMENTO/GLISSANDO

\*\*\* Controls \*\*\*

PORTAMENTO/GLISSANDO  
(LONG~SHORT)

—MODE - A/B/C  
MOD. SPEED(FAST~SLOW)  
BRILLIANCE  
(BRIGHT--MELLOW)  
PITCH BEND(UP--DOWN)  
REVERB.(MIN~MAX)

## 4. TOUCH EFFECTS

\*\*\* Levers \*\*\*

GROWL  
VIBRATO  
WOW/BRILLIANCE  
BEND UP/BEND DOWN


\*\*\* Controls \*\*\*

TOUCH SENSITIVITY(MIN~MAX)

## 5. TOUCH SENSER (Touch Effects depend on the Pressure.)

This Effects are influence on the all keys.

## 6. GENERAL CONTROLS

VOLUME(MIN~MAX)  
TUNE(#~♭)  
TRANSPOSE(UP--DOWN)

## 7. REAR PANEL (Standard Plug Jack)

SIGNAL OUTx : HEADPHONE JACK  
HIGH(+4dBm) Imp. 1kΩ  
LOW(-20dBm) Imp. 1kΩ  
EXPRESSION PEDAL JACK 1

## 8. RATING

VOLTAGE : AC 100V  
FREQUENCY : 50/60Hz  
WATTAGE : 12W

## 1. CONSTRUCTION



PORTABLE TYPE

## 2. FINISH

CABINET : NEW BOLAZON WALNUT

## 3. DIMENSIONS

WIDTH : 830mm  
DEPTH : 295mm  
HEIGHT : 116mm  
WEIGHT : 10.5kg

	TROMBONE	SAX	TRUMPET	HORN	CLARINET	FLUTE	VIOLIN	ELECTRIC BASS	FUZZ GUITAR	PIANO	SITAR	VIBRA-PHONE	WHISTLE	WAVE	S.SOUND I	S.SOUND III	TUBA	BASSOON	MUTE TRUMPET	SHAKU-HACHI	OBOE	PICCOLO	CELLO	WOODBASS	HAWAIIAN GUITAR	ACCORDION	BANJO	GLOCKEN	VOICE	WIND	S.SOUND II	S.SOUND IV								
RANGE 4'													0									0																		
RANGE 8'						0	0					0																												
RANGE 16'			0	0	0				0	0	0	0								0	0					0	0													
RANGE 32'	0	0																																						
RANGE 64'								0																																
VIB. DEPTH													0				0	0						0																
TONE 		0			0				0	0			0										0			0														
TONE 	0		0	0		0	0	0			0	0	0				0	0			0		0		0	0	0													
TONE NOISE														0									0										0	0						
KEY VCF 2/3		0	0		0		0		0		0						0																							
KEY VCF 1/3	0			0				0				0												0		0														
KEY VCF 1										0														0																
HI PASS 10K		0	0		0					0																														
HI PASS 27K										0																														
BENDER ON																																								
DELAY VIB OFF				0									0																											
VC(LM)→VCA(MO)								0		0	0	0																												
VCO PWM ON								0		0									0					0		0														
WINDWAVEMOON																																								





**TEISCO CO., LTD.**

Head office : 2712 Shimokayama, Shobu-machi, Minamisaitama-gun, Saitama, Japan

Printed in Japan