Aerophone Editor Owner's Manual



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Getting Ready to Use Aerophone Editor

Use a USB cable to connect the Aerophone to your smartphone, and power-on the Aerophone.

Connecting to an Aerophone AE-10

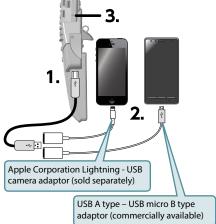
You'll need to provide the following

- iOS device users
- Apple Corporation Lightning USB camera adaptor (sold separately)
- Android device users
- USB A type USB micro B type adaptor (commercially available)
 Each of these items are subsequently referred to as a "USB adapter."

To use Aerophone Editor with a smartphone, first install batteries in the Aerophone AE-10 or connect the AC adapter.

For details on how to install batteries or connect the AC adapter, refer to the owner's manual.

- Use a USB cable to connect the USB adapter to the Aerophone. 2. Connect the USB adapter to the
- smartphone.
- 3. Turn the Aerophone's [POWER] switch "on."



4. Tap "Aerophone Editor"



5. Tap the gear icon.



For both INPUT and OUTPUT, select "Aerophone."



7. Tap [Close].



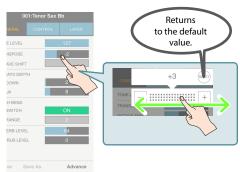
Using Aerophone Editor

Specifying Values

When you tap a value, a controller (*1) appears.

You can continue swiping left or right to change the value.

You can tap the [-][+] buttons to adjust the value precisely.

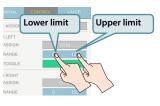


* 1: This appears if "Show big slider" is "on" in the settings screen.



Specifying a range

For parameters that specify a range of values (lower limit – upper limit), you can swipe the left side of the slider to change the lower limit, or swipe the right side to change the upper limit.





Editing a Tone

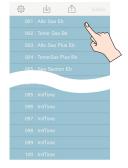
When you start Aerophone Editor, a tone list (001–100) appears.

Swipe up or down on the list to scroll the list.



1. Select the tone that you want to edit.

The tone is sent to the Aerophone.

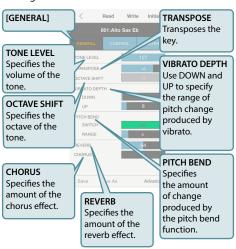


2. With the tone selected, tap [Editor].



Editing a Tone (GENERAL Screen)

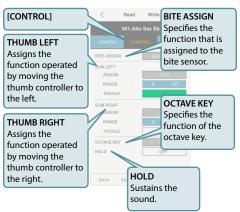
In the GENERAL screen you can edit the basic settings of a tone.





Editing a Tone's Controller Settings (CONTROL Screen)

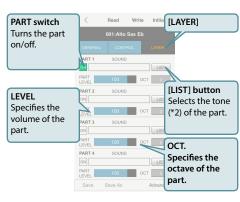
In the CONTROL screen you can assign functions to the controllers. By using controllers, you can control the character of the sound while you perform.





Layering Multiple Parts (LAYER Screen)

By using Aerophone Editor you can play up to four instruments simultaneously. In the LAYER screen you can edit the basic parameters of each part.

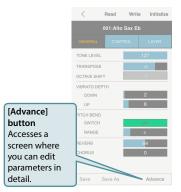


* 2: If a SuperNATURAL sound is assigned to multiple parts, the onset of notes might be delayed. SuperNATURAL sounds are shown by a [SN] indication.



Editing Tones in More Detail (Advance Screen)

You can make more detailed adjustments to the parameters of each part.



For details on the each parameter, refer to "Advance Screen Parameter List" (p. 25).



Saving Your Edits

Saving to the Tone List

You can save the edited tone to the tone list.





Sending the Tone to the Aerophone AE-10

You can send the edited tone to the Aerophone AE-10.



* 3: Simply sending the tone does not save it in the user tones of the Aerophone AE-10. To save it as a user tone, execute the save operation on the Aerophone AE-10.



Initializing the Tone

You can initialize the settings of the tone.

This is convenient when you want to design the entire sound from scratch.





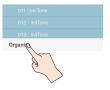
Editing the List

You can copy or delete tones shown in the list. You can also use the copy buffer to change the order of the tones.

MEMO

The "copy buffer" is temporary memory within the app. You can use it to copy or organize tones.

1. Tap [Organize].



2. Tap the tone(s) that you want to copy or the tone(s) whose order you want to change.



3. Tap one of the following.

| Command | Explanation | | | |
|----------|---|--|--|--|
| [Copy] | Copies the tapped tone(s) to the copy buffer. | | | |
| [Cut] | Copies the tapped tone(s) to the copy buffer, and removes them from the list. The subsequent tone numbers are renumbered forward. | | | |
| [Delete] | Deletes the tapped tone(s) from the list. The subsequent tone numbers are renumbered forward. | | | |

4. Tap the tone that you want to be

the copy-destination (exchange-destination).

5. Tap one of the following.

| Command | Explanation | | |
|----------|---|--|--|
| [Paste] | The tones in the copy buffer are overwritten onto the tone that you tap in step 5. If the copy buffer contains multiple tones, they overwrite the tone that you tap in step 5 and subsequent tones. | | |
| [Insert] | The tones in the copy buffer are inserted at the tone that you tap, and the subsequent portion of the list is shifted backward. If shifting the list causes any tone numbers to exceed 100, those tones are discarded (a message is displayed). | | |



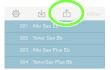
Exchanging Tone Lists

Tone lists of the Aerophone Editor can be exchanged between the Aerophone AE-10, the smartphone, and cloud service.

Exporting

You can send the current tone list to an Aerophone AE-10, the smartphone, or cloud service.

- 1. Access the tone list screen.
- 2. Tap the export icon.



3. Tap one of the following.



| lcon | Explanation |
|-----------|---|
| Aerophone | Transfers the tones to the Aerophone AE-10. |
| File | Saves the tones to the smartphone. |
| Cloud | Saves the tones in the cloud service. iOS device Saves the tones in the iCloud Drive. Android device Saves the tones in the Google Drive. |

MEMO

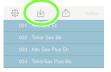
When you tap the Cloud icon, multiple services supported by the device might appear. This app only supports operation using iCloud Drive (for iOS) or Google Drive (for Android).



Importing

A tone list saved in the Aerophone AE-10, the smartphone, or cloud service can be imported into Aerophone Editor.

- 1. Access the tone list screen.
- 2. Tap the import icon.



3. Tap one of the following.



| | | Imports user tones from | |
|------|---|-----------------------------------|--|
| | Aerophone | the Aerophone AE-10 into | |
| | | Aerophone Editor. | |
| | | Imports user tones saved | |
| | File | in the smartphone into | |
| | | Aerophone Editor. | |
| | | Imports user tones saved in cloud | |
| | | service into Aerophone Editor. | |
| | | iOS device | |
| | | Imports user tones saved | |
| | c ll | in iCloud Drive into | |
| | Cloud | Aerophone Editor. | |
| | | Android device | |
| | | Imports user tones saved | |
| | | in Google Drive into | |
| | | Aerophone Editor. | |
| MEMO | | | |
| | When you tap the Cloud icon, multiple services supported by the device might appear. This app only supports operation using iCloud Drive (for iOS) or Google Drive (for Android). | | |
| | (· · · · · · · · · · · · · · · · | | |

Explanation

lcon



Advance Screen Parameter List

PART

Parameter

KEY RANGE

| | LAYER | Switches the part to edit. |
|--|---------------|--|
| | SWITCH | Selects the parts that will sound. |
| | [LIST] button | Selects the sound of the part. The |
| | | selected sound is shown in "SOUND." |
| | | SuperNATURAL sounds are indicated |
| | | by an "SN" icon. |
| | TONE LEVEL | Adjust the volume of each part. |
| | | This setting's main purpose is to |
| | | adjust the volume balance between |
| | | parts. |
| | | Adjust the pan of each part. |
| | PAN | "I 64" is far left "0" is center and "63R" |

is far right.

each Part

effect, set it to 0.

Adjusts the amount of Chorus for

If you don't want to add the Chorus

Explanation

| Parameter | | Explanation |
|---------------|--------------|--|
| | OCTAVE SHIFT | Adjusts the pitch of the part's sound up or down in units of an octave (+/-3 octaves). |
| PITCH | COURSE TUNE | Adjusts the pitch of the part's sound up or down in semitone steps (+/-4 octaves). |
| | FINE TUNE | Adjusts the pitch of the part's sound up or down in 1-cent steps (+/- 50 cents). |
|)FFSET | CUTOFF | One cent is 1/100th of a semitone. Adjusts the cutoff frequency for the tone/drum kit assigned to a part. For some tones, the effect may be difficult to notice. |
| FILTER OFFSET | RESONANCE | Adjusts the Resonance for the tone/ drum kit assigned to a part. * For some tones, the effect may be difficult to notice. |
| SET | ATTACK | Adjusts the Attack Time for the tone/drum kit assigned to a part. |
| ENV OFFSET | DECAY | Adjusts the Decay Time for the tone/drum kit assigned to a part. |
| EN | RELEASE | Adjusts the Release Time for the tone/drum kit assigned to a part. |
| | | <u> </u> |

| _ | | |
|-------------|----------|---|
| | RATE | For each part, adjust the vibrato speed (the rate at which the pitch is modulated). The pitch will be modulated more rapidly for higher settings, and more slowly with lower settings. |
| I EO OFFSET | DEPTH | For each part, this adjusts the depth of the vibrato effect (the depth at which the pitch is modulated). The pitch will be modulated more greatly for higher settings, and less with lower settings. |
| | DELAY | For each part, this adjusts the time delay until the vibrato (pitch modulation) effect begins. Higher settings will produce a longer delay time before vibrato begins, while lower settings produce a shorter time. |
| BEN | ID RANGE | Specifies the amount of pitch change caused by operating pitch bend, in semitone steps (up to two octaves). If you want to use the Pitch Bend Range initial setting of the tone, set this to "TONE." |
| | | |

Explanation

Parameter

| | Param | eter | Explanation |
|---|--------------|------------|--|
| | ENTO | sw | Specify whether portamento will be applied. Turn this parameter "ON" when you want to apply Portamento and "OFF" when you don't. If you want to use the Portamento Switch initial setting of the tone, set this to "TONE." |
| | PORTAMENTO | TIME | When portamento is used, this specifies the time over which the pitch will change. Higher settings will cause the pitch change to the next note to take more time. If you want to use the Portamento Time initial setting of the tone, set this to "TONE." |
| | Þ | ASSIGN | Specifies the output destination of the part. Choose "MFX" if you want to output to MFX, or "OUTPUT" if you want to output directly. |
| | OUTPUT | MFX SELECT | Specifies the MFX that is assigned to the part. If you don't want to use MFX, choose "OFF." |
| | | LEVEL | Specifies the output level of the part. |
| I | SEND EVEL | CHORUS | Adjusts the amount of Chorus for each Part. |
| | E E | REVERB | Adjusts the amount of Reverb for each Part. |

Copying a part's settings to another part

• Tap [Copy this part to...].



2. Select the copy-destination part.



- You can select multiple copydestinations.
 - If you decide to cancel, tap [Cancel].

3. Tap [COPY].

NOTE

Note that executing the copy overwrites the previous data.



CONTROL

Parameter

| | EATH1 EATH2 | ASSIGN | Specifies the parameter that is |
|--|----------------|--------|--------------------------------------|
| | | | controlled by the breath sensor (the |
| | | | force of your blowing). |
| | | RANGE | Specifies the range (minimum |
| | | | value, maximum value) of the value |
| | | | controlled by the breath sensor. |
| | 88 | | Uses the breath sensor as a switch. |
| | | | If this is ON, the value switches |
| | | TOGGLE | between the maximum value and |
| | | | minimum value specified by RANGE |
| | | | each time you blow. |
| | | ASSIGN | Specifies the parameter that is |
| | | | controlled by the bite sensor (the |
| | | | strength with which you bite the |
| | | | mouthpiece). |
| | | RANGE | Specifies the range (minimum |
| | 百百百 | | value, maximum value) of the value |
| | ᇤᇤ | | controlled by the bite sensor. |
| | | TOGGLE | Uses the bite sensor as a switch. |
| | | | If this is ON, the value switches |
| | | | between the maximum value and |
| | | | minimum value specified by RANGE |
| | | | each time you bite the mouthpiece. |

Explanation

THUMB CONTROLS

| Parameter | | Explanation | |
|----------------|--------|--|--|
| | ASSIGN | Specifies the parameter that is controlled when you operate the thumb control upward. | |
| JP1 JP2 | RANGE | Specifies the range (minimum value, maximum value) of the value controlled when you operate the thumb control upward. | |
| | TOGGLE | Uses the thumb control as a switch If this is ON, the value switches between the maximum value and minimum value specified by RANGE each time you operate the thumb control upward. | |
| | ASSIGN | Specifies the parameter that is controlled when you operate the thumb control downward. | |
| DOWN1 DOWN2 | RANGE | Specifies the range (minimum value, maximum value) of the value controlled when you operate the thumb control downward. | |
| 90 | TOGGLE | Uses the thumb control as a switch. If this is ON, the value switches between the maximum value and minimum value specified by RANGE each time you operate the thumb control downward. | |
| | | | |

| | triurib control lettwara. | |
|------------------|--------------------------------|-------------------------------------|
| | RANGE | Specifies the range (minimum |
| | | value, maximum value) of the |
| - 2 | | value controlled when you operate |
| EFT1 EFT2 | | the thumb control leftward. |
| == | | Uses the thumb control as a switch. |
| | | If this is ON, the value switches |
| | TOGGLE | between the maximum value |
| | TOGGLE | and minimum value specified by |
| | | RANGE each time you operate the |
| | | thumb control leftward. |
| | ASSIGN | Specifies the parameter that is |
| | | controlled when you operate the |
| | | thumb control rightward. |
| | RANGE | Specifies the range (minimum |
| | | value, maximum value) of the |
| RIGHT1 RIGHT2 | | value controlled when you operate |
| 윤윤 | | the thumb control rightward. |
| 2 2 | Uses the thumb control as a sv | |
| | | If this is ON, the value switches |

Explanation

Specifies the parameter that is controlled when you operate the

between the maximum value

and minimum value specified by RANGE each time you operate the thumb control rightward. Specifies the minimum velocity

Specifies the maximum velocity

thumb control leftward

Parameter

ASSIGN

TOGGI F

MIN

MAX

value.

value.

SuperNATURAL CONTROL SOURCE

| CONTROL 1 CONTROL 2 | Specify the MIDI messages that control SuperNATURAL sounds. CONTROL 1 typically controls dynamics, and CONTROL 2 typically controls vibrato. | | |
|------------------------|--|--|--|
| | | | |
| | | | |
| | | | |

Explanation

Parameter



MFX

MEMO

Parameters marked with a ☆ can be controlled using the "MFX1" and "MFX2" parameters of the Aerophone AE-10.

| Parameter | Explanation | |
|-----------|------------------------------------|--|
| | The Aerophone is equipped with | |
| MFX1/MFX2 | two MFX processors. Select the MFX | |
| | that you want to edit. | |
| MFX TYPE | Turns MFX on/off, and selects the | |
| | type of MFX to use. | |

EOUALIZER

This is a four-band stereo equalizer (low, mid x 2, high).



| Parameter Value | | Explanation | |
|---|----------------------------|---|--|
| HIGH FREQ | 2000, 4000, 8000[Hz] | Frequency of the high range | |
| HIGH GAIN (☆) | -15-+15[dB] | Gain of the high range | |
| MID1 FREQ | 200-8000[Hz] | Frequency of the middle range 1 | |
| MID1 Q | 0.5, 1.0, 2.0, 4.0, 8.0 | Width of the middle range 1 Set a higher value for Q to narrow the range to be affected. | |
| MID1 GAIN | -15-+15[dB] | Gain of the middle range 1 | |
| MID2 FREQ | 200-8000[Hz] | Frequency of the middle range 2 | |
| MID2 Q | 0.5, 1.0, 2.0, 4.0, 8.0 | Width of the middle range 2 Set a higher value for Q to narrow the range to be affected. | |
| MID2 GAIN | -15-+15[dB] | Gain of the middle range 2 | |
| LOW FREQ | 200, 400[Hz] | Frequency of the low range | |
| LOW GAIN | -15-+15[dB] | Gain of the low range | |
| LEVEL | 0–127 | Output level | |
| Boosts the volume of the lower range, creating powerful lows. L in Low Boost 2-Band EQ L out R in Low Boost 2-Band EQ R out | | | |

| | 50–125[Hz] | center nequency at which | |
|-------------------|-------------|----------------------------|--|
| BOOST FREQ | | the lower range will be | |
| | | boosted | |
| BOOST GAIN | 0-+12[dB] | Amount by which the lower | |
| (☆) | | range will be boosted | |
| BOOST | WIDE, MID, | Width of the lower range | |
| WIDTH | NARROW | that will be boosted | |
| HIGH GAIN | -15-+15[dB] | Gain of the high frequency | |
| HIGH GAIN | | range | |
| LOW GAIN | -15-+15[dB] | Gain of the low frequency | |
| LOW GAIN | | range | |
| LEVEL | 0–127 | Output level | |
| | | | |
| | | | |
| ENHANCER | | | |
| | | | |
| | | | |

Explanation

Center frequency at which

Value

Parameter

frequencies, adding sparkle and tightness to the sound.

Controls the overtone structure of the high

| L in Enhancer | Mix ⊕ | 2-Band EQ | →L out |
|---------------|-------|--------------|---------|
| R in Enhancer | _O″→⊕ | 2-Band EQ | → R out |

| R in En | hancer Mix | 2-Band EQ | <mark>→</mark> R out |
|-----------|------------|--------------|----------------------|
| Parameter | Value | Explanation | |

| | | | Explanation | |
|-----|-----------|-------------|-----------------------------|--|
| | SENS | 0–127 | Sensitivity of the enhancer | |
| MIX | MIX (☆) | IN_127 | Level of the overtones | |
| | WIIX (A) | | generated by the enhancer | |
| | HIGH GAIN | -15-+15[dB] | Gain of the high range | |
| | LOW GAIN | -15-+15[dR] | Gain of the low range | |

AUTO WAH

Parameter

Cyclically controls a filter to create cyclic change in timbre.

| L in — | Auto Wah | \vdash | 2-Band EQ | → L out |
|--------|----------|----------|-----------|---------|
| _ | | | | - |
| | | | | _ |

| R in— | Auto Wah | \vdash | 2-Band EQ | → R out |
|-------|----------|----------|-----------|---------|
| | | | | • |

Explanation

Value

| | Type of filter | |
|-------------|----------------|------------------------|
| | | The wah effect will be |
| | LPF | applied over a wide |
| FILTER TYPE | | frequency range. |
| | | The wah effect will be |
| | BPF | applied over a narrow |
| | | frequency range. |
| | | Adjusts the center |
| | | FILTER TYPE |

| | | The wah effect will be |
|--------|-------|------------------------|
| | BPF | applied over a narrow |
| | | frequency range. |
| | | Adjusts the center |
| MANUAL | 0–127 | frequency at which the |
| | | effect is applied. |

| | BPF | applied over a narrow |
|--------|-------|----------------------------|
| | | frequency range. |
| | | Adjusts the center |
| MANUAL | 0–127 | frequency at which the |
| | | effect is applied. |
| | | Adjusts the amount of the |
| | | wah offeet that will occur |

| | | lenect is applied. |
|------|-------|----------------------------|
| | | Adjusts the amount of the |
| | | wah effect that will occur |
| | | in the range of the center |
| PEAK | 0–127 | frequency. |
| | | Set a higher value for Q |
| | | to narrow the range to be |

| | | Set a higher value for Q |
|------|-------|------------------------------|
| | | to narrow the range to be |
| | | affected. |
| CENC | 0 107 | Adjusts the sensitivity with |
| SENS | 0–127 | |

| | Parameter | Value | Explanation |
|---------------------------------|-----------------|--|--|
| will change when the modulated. | | on in which the frequency en the auto-wah filter is | |
| | POLARITY | UP | The filter will change toward a higher frequency. |
| | | DOWN | The filter will change toward a lower frequency. |
| | RATE (☆) | 0.05-10.00[Hz] | . , |
| | DEPTH | 0-127 | Depth of modulation |
| | PHASE | 0–180[deg] | Adjusts the degree of phase shift of the left and right sounds when the wah effect is applied. |
| | HIGH GAIN | -15-+15[dB] | Gain of the high range |
| | LOW GAIN | -15-+15[dB] | Gain of the low range |
| | LEVEL | 0-127 | Output level |
| • | similar to a hu | character to t uman voice. | |
| | Parameter | Value | Explanation |
| | DRIVE SW | OFF, ON | Turns Drive on/off. |
| | DRIVE | 0–127 | Degree of distortion Also changes the volume. |
| | VOWEL1 | a, e, i, o, u | , |
| | VOWEL2 | a, e, i, o, u | Selects the vowel. |
| | RATE (☆) | 0.05–10.00[Hz] | Frequency at which the two vowels switch |

| INPUT SYNC | OFF, ON | Determines whether the LFO for switching the |
|------------|---------------------------------|---|
| SVV | | vowels is reset by the input |
| | | signal (ON) or not (OFF). |
| INPUT SYNC | 0–127 | Volume level at which reset |
| THRES | 0-127 | is applied |
| | Point at which VOWEL 1/2 switch | |
| | 49 or less | VOWEL1 will have a longer |
| | 49 Of less | duration. |
| MANUAL | | VOWEL1 and 2 will be of |

Explanation

Effect depth LFO reset on/off

equal duration. VOWEL2 will have a longer

Gain of the high frequency

Gain of the low frequency

Stereo location of the

duration

range

range

output

Output level

LEVEL

PAN

HIGH GAIN

LOW GAIN

Parameter

DEPTH

Value

0 - 127

50

51 or more

-15-+15[dB]

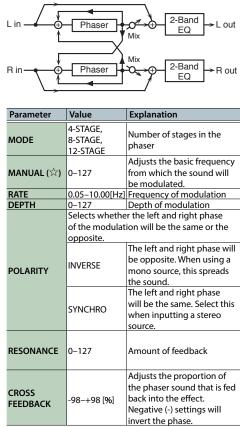
-15-+15[dB]

L64-63R

0-127

PHASER This is a stereo phaser. A phase-shifted sound is

added to the original sound and modulated.



| | Parameter | Value | Explanation |
|---|---------------------------------|---|--|
| | MIX | 0–127 | Level of the phase-shifted |
| | IVIIA | 0-127 | sound |
| | HIGH GAIN | -15-+15[dB] | Gain of the low range |
| | LOW GAIN | -15-+15[dB] | Gain of the high range |
| | LEVEL | 0–127 | Output level |
| • | (AM) to the in sounds. You c | ct that applies put signal, pre an also chang response to ch it into the effe | s amplitude modulation oducing bell-like pe the modulation nanges in the volume of ect. Band EQ |
| | Parameter | Value | Explanation |
| | rarameter | value | |
| | | | Adjusts the frequency |
| | FREQUENCY | 0–127 | at which modulation is |
| | | | applied. |
| | | | Adjusts the amount of |
| | SENS | 0–127 | frequency modulation |
| | | | applied. |
| | | | ether the frequency |
| | | | oves towards higher |
| | POLARITY | | lower frequencies. |

Higher frequencies

Lower frequencies

UP

DOWN

| | Parameter | Value | Explanation |
|---|-------------------------------|---------------------|---|
| | HIGH GAIN | -15-+15[dB] | Gain of the high frequency range |
| | LOW GAIN | -15–+15[dB] | Gain of the low frequency range |
| | BALANCE (☆) | D100:0W- D0:100W | Volume balance between the direct sound (D) and the effect sound (W) |
| | LEVEL | 0–127 | Output level |
| • | Cyclically modeffect to the s | ound. | lume to add tremolo $\begin{array}{c} \text{Band EQ} \longrightarrow \text{L out} \\ \text{Band EQ} \longrightarrow \text{R out} \end{array}$ |
| | Parameter | Value | Explanation |
| | | Modulation Wa | ve |
| | | TRI | Triangle wave |
| | | SQR | Square wave |
| | MOD WAVE | SAW1, 2 | Sine wave Sawtooth wave SAW1 SAW2 |
| | RATE (☆) | 0.05-10.00[Hz] | Frequency of the change |
| | | | |

| Parameter | Value | Explanation |
|---|------------------------------------|--|
| DEPTH | 0–127 | Depth to which the effect |
| DEFIN | 0-12/ | is applied |
| HIGH GAIN | -15-+15[dB] | Gain of the high range |
| LOW GAIN | -15-+15[dB] | Gain of the low range |
| LEVEL | 0–127 | Output level |
| Cyclically mod sound. L in Auto R in Auto | Pan 2- | ereo location of the $ \begin{array}{c} \text{Band EQ} \longrightarrow \text{L out} \\ \text{Band EQ} \longrightarrow \text{R out} \end{array} $ |
| | | |
| Parameter | Value | Explanation |
| Parameter | | Explanation |
| Parameter | Value Modulation Wa | ve |
| Parameter | Modulation Wa | • |
| Parameter | Modulation Wa TRI | ve Triangle wave |
| Parameter MOD WAVE | Modulation Wa TRI SQR | ve Triangle wave Square wave |
| | Modulation Wa TRI SQR SIN | ve Triangle wave Square wave Sine wave Sawtooth wave SAW1 R L SAW2 |

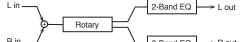
| | HIGH GAIN | -15-+15[dB] | Gain of the high range |
|--------|-----------|-------------|------------------------|
| | LOW GAIN | -15-+15[dB] | Gain of the low range |
| | LEVEL | 0-127 | Output level |
| | | | |
| | | | |
| DOTADV | | | |

Explanation

Value

Parameter

This type provides modified response for the rotary speaker, with the low end boosted further. This effect features the same specifications as the VK-7's built-in rotary speaker.



| Parameter | Value Explanation | |
|-----------|--|------|
| | Rotational speed of the rotating speaker | |
| SPEED (☆) | SLOW | Slow |
| | FAST | Fast |

Switches the rotation of the

rotary speaker. When this is turned on, the rotation will gradually RRAKE OFF ON

| <u>-</u> | | stop. When it is turned off, the rotation will gradually resume. |
|-----------------------|----------------|--|
| TWEETER SLOW SPEED | 0.05–10.00[Hz] | Low-speed rotation speed of the tweeter |
| | | |

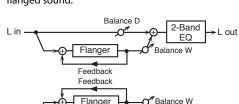
0.05-10.00[Hz] High-speed rotation speed **TWEETER FAST SPEED**

| | Parameter | Value | Explanation |
|---|-----------------------|---------------------------|---|
| | TWEETER TRANS UP | 0–127 | Adjusts the rate at which the tweeter rotation speeds up when the rotation is switched from SLOW to FAST. |
| | TWEETER TRANS DOWN | 0–127 | Adjusts the rate at which the tweeter rotation speeds up when the rotation is switched from FAST to SLOW. |
| | TWEETER LEVEL | 0–127 | Volume of the tweeter |
| | WOOFER SLOW SPEED | 0.05–10.00[Hz] | Low-speed rotation speed of the woofer |
| | WOOFER FAST SPEED | 0.05-10.00[Hz] | High-speed rotation speed of the woofer |
| | WOOFER TRANS UP | 0–127 | Adjusts the rate at which the woofer rotation speeds up when the rotation is switched from SLOW to FAST. |
| | WOOFER TRANS DOWN | 0–127 | Adjusts the rate at which the woofer rotation speeds up when the rotation is switched from FAST to SLOW. |
| | WOOFER LEVEL | 0–127 | Volume of the woofer |
| | SPREAD | 0–10 | Sets the rotary speaker stereo image. |
| i | HIGH GAIN | -15-+15[dB] | Gain of the high range |
| į | LOW GAIN | -15-+15[dB] | Gain of the low range |
| į | TYPE | 0-127 | Output level |
| | LEVEL | STANDARD, STACK, CLEAN | Type of speaker |
| | | | |

FLANGFR

phase for left and right.). It produces a metallic resonance that rises and falls like a jet airplane taking off or landing. A filter is provided so that you can adjust the timbre of the flanged sound.

This is a stereo flanger (The LFO has the same



2-Band

begins until the flanger sound is heard.

0.05-10.00[Hz] Frequency of modulation

| Parameter | Value | Explanation |
|----------------|-------|--------------------------|
| Type of filter | | |
| | OFF | No filter is used |
| FILTER TYPE | LPF | Cuts the frequency range |

HPF below the Cutoff Freq Center frequency when CUTOFF FREO 200-8000[Hz] using the filter to cut a specific frequency range

above the Cutoff Freq Cuts the frequency range

Adjusts the delay time from when the direct sound PRE DELAY 0.0-100[msec]

RATE (☆)

| | Parameter | Value | Explanation | | |
|----------------------------------|--|-------------|-------------------------------|--|--|
| - | DEPTH | 0-127 | Depth of modulation | | |
| | PHASE | 0-180[deg] | Spatial spread of the sound | | |
| | | | Adjusts the proportion of | | |
| | | | the flanger sound that is fed | | |
| | FEEDBACK | -98-+98 [%] | back into the effect. | | |
| | | | Negative (-) settings will | | |
| | | | invert the phase. | | |
| | HIGH GAIN | -15-+15[dB] | Gain of the high range | | |
| | LOW GAIN | -15-+15[dB] | Gain of the low range | | |
| | | D100:0W- | Volume balance between | | |
| | BALANCE | D0:100W | the direct sound (D) and the | | |
| Į | | | flanger sound (W) | | |
| | LEVEL | 0–127 | Output level | | |
| • | SPACE-D This is a multiple chorus that applies two-phase modulation in stereo. It gives no impression of modulation, but produces a transparent chorus effect. | | | | |
| L in Space D 2-Band EQ Balance W | | | 2-Band EQ L out | | |
| | R in | Space D | Balance W 2-Band R out | | |
| | | Balance D | | | |
| | Parameter | Balance D | Explanation | | |

| | Parameter | Value | Explanation |
|--------------------------|---------------------|--|--|
| | RATE (☆) | 0.05-10.00[Hz] | Frequency of modulation |
| | DEPTH | 0-127 | Depth of modulation |
| | PHASE | 0-180[deg] | Spatial spread of the sound |
| | HIGH GAIN | -15-+15[dB] | Gain of the high range |
| | LOW GAIN | -15-+15[dB] | Gain of the low range |
| | BALANCE | D100:0W- D0:100W | Volume balance between the direct sound (D) and the chorus sound (W) |
| LEVEL 0–127 Output level | | | |
| • | by vacuum tu | • • • • • • • | L out |
| | _ | | = |
| | Parameter | Value | Explanation |
| | Parameter DRIVE (☆) | Value 0–127 | Explanation Degree of distortion Also changes the volume. |
| | | 0–127 Type of guitar a | Degree of distortion Also changes the volume. Imp |
| | | 0–127 Type of guitar a SMALL | Degree of distortion Also changes the volume. |
| | | 0–127 Type of guitar a | Degree of distortion Also changes the volume. Imp Small amp Single-unit type amp |
| | DRIVE (☆) | 0–127 Type of guitar a SMALL | Degree of distortion Also changes the volume. Imp Small amp |
| | DRIVE (☆) | 0–127 Type of guitar a SMALL BUILT-IN | Degree of distortion Also changes the volume. Imp Small amp Single-unit type amp |

HIGH GAIN

LOW GAIN

PAN

LEVEL

-15-+15[dB]

-15-+15[dB]

L64-63R

0-127

Gain of the high range

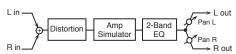
Gain of the low range Stereo location of the

output sound

Output level

DISTORTION

Produces a more intense distortion than Overdrive. The parameters are the same as for "OVERDRIVE."



COMPRESSOR

Flattens out high levels and boosts low levels, smoothing out fluctuations in volume.

L in — Compressor — 2-Band EQ

| | <u> </u> |
|-----|----------|
| | |
| D : | D |

| Parameter | Value | Explanation |
|-----------|-------|----------------------------|
| | | Sate the time from when th |

| ATTACI | K | 0–127 | input exceeds the Threshold until the volume starts being compressed |
|--------|------|-----------|--|
| THRESI | HOLD | 0–127 | Adjusts the volume at which |
| (☆) | | 0-127 | compression begins |
| POST G | AIN | 0-+18[dB] | Adjusts the output gain. |

HIGH GAIN -15-+15[dB] Gain of the high range LOW GAIN -15-+15[dB] Gain of the low range LEVEL 0 - 127Output level

IMITER

Compresses signals that exceed a specified volume level, preventing distortion from occurring.

| - III — | Limiter | ╌ | 2-band EQ | Loui | |
|---------|---------|---|-----------|-----------|--|
| | | | | | |
| | | | | | |
| R in | Limitor | ட | 2 Pand EO | L - R out | |

| raiailletei | value | Explanation | |
|---------------|---------------------------|--|--|
| RELEASE | 0–127 | Adjusts the time after the signal volume falls below the Threshold Level until compression is no longer applied. | |
| THRESHOLD (☆) | 0–127 | Adjusts the volume at which compression begins | |
| RATIO | 1.5:1, 2:1, 4:1, 100:1 | Compression ratio | |
| POST GAIN | 0-+18[dB] | Adjusts the output gain. | |
| HIGH GAIN | -15-+15[dB] | Gain of the high range | |

Gain of the low range

Output level

-15-+15[dB]

0-127

GATE

LOW GAIN

LEVEL

Cuts the reverb's delay according to the volume of the sound sent into the effect. Use this when you want to create an artificial-sounding decrease in the reverb's decay.

| | duic | , L out |
|------------------|------------------|---|
| | | |
| R in——— | Gate | → R out |
| | | |
| Parameter | Value | Explanation |
| THRESHOLD (☆) | 0–127 | Volume level at which the gate begins to close |
| | Type of gate | |
| MODE | GATE | The gate will close when the volume of the original sound decreases, cutting the original sound. |
| | DUCK (Duking) | The gate will close when the volume of the original sound increases, cutting the original sound. |
| ATTACK | 0–127 | Adjusts the time it takes for the gate to fully open after being triggered. |
| HOLD | 0–127 | Adjusts the time it takes for the gate to start closing after the source sound falls beneath the Threshold. |
| RELEASE | 0–127 | Adjusts the time it takes the gate to fully close after the hold time. |
| BALANCE | D100:0W- | Volume balance between the direct sound (D) and the |

D0:100W

0-127

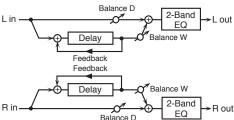
effect sound (W)

Output level

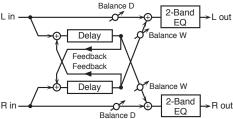
Gate

LEVEL

This is a stereo delay. When Feedback Mode is NORMAL:



When Feedback Mode is CROSS:



| Parameter | Value | Explanation |
|------------|--------------|----------------------------|
| DELAY LEFT | 0–1300[msec] | Adjusts the time until the |

| DELAI EEI I | 0_1300[msec] | Adjusts the time until the | |
|-------------|-------------------------------|----------------------------|--|
| DELAY RIGHT | 0 1300[11300] | delay sound is heard. | |
| | Phase of the left delay sound | | |
| PHASE LEFT | NORMAL | Non-inverted | |

Inverted

INVERT

| | Parameter | Value | Explanation | |
|---|--|---------------------------------|--------------------------------|--|
| | | Phase of the right delay sound | | |
| | PHASE RIGHT | NORMAL | Non-inverted | |
| | | INVERT | Inverted | |
| | FEEDBACK | NORMAL. | Selects the way in which | |
| | MODE | CROSS | delay sound is fed back into | |
| | MODE | CRUSS | the effect (See the figures.). | |
| | | | Adjusts the amount of the | |
| | | | delay sound that's fed back | |
| | FEEDBACK | -98-+98 [%] | into the effect. | |
| | | 10 | Negative (-) settings invert | |
| | | | the phase. | |
| | | | Adjusts the frequency above | |
| | | l . | which sound fed back to the | |
| | | 200-8000[Hz], | effect is filtered out. If you | |
| | HF DAMP | BYPASS | don't want to filter out any | |
| | | D117.33 | high frequencies, set this | |
| | | | parameter to BYPASS. | |
| ĺ | HIGH GAIN | -15-+15[dB] | Gain of the high range | |
| j | LOW GAIN | -15-+15[dB] | Gain of the low range | |
| | | D100:0W- Volume balance between | | |
| | BALANCE (☆) | | the direct sound (D) and the | |
| | | D0:100W | delay sound (W) | |
| | LEVEL | 0–127 | Output level | |
| | | | | |
| | | | | |
| Ī | LONG DELAY | | | |
| L | LUNU DELAI | | | |
| | | | | |
| | A delay that provides a long delay time. | | | |
| | Additional provides a long delay time. | | | |
| | ~ 2-Band | | | |
| l | L in P 2-Ballu EQ >L out | | | |
| | 7 | | Pan L | |
| 1 | Long Delay | | | |

2-Band

Feedback

| | | | wrien the delay sound is |
|--|-----------|-------------|------------------------------|
| | | | heard |
| | | NORMAL. | Phase of the delay |
| | PHASE | INVERSE | (NORMAL: non-inverted, |
| | | IINVERSE | INVERT: inverted) |
| | | | Proportion of the delay |
| | FEEDBACK | -98-+98 [%] | sound that is to be returned |
| | FEEDBACK | | to the input (negative (-) |
| | | | values invert the phase) |
| | | | Frequency at which the |
| | HF DAMP | | high-frequency content of |
| | TE DAINIP | | the delayed sound will be |
| | | | cut (BYPASS: no cut) |

Explanation

Delay time from when the original sound is heard to

when the delay sound is

Panning of the delay sound

original sound (D) and delay

Gain of the high range

Gain of the low range

sound (W)

Output level

Volume balance of the

3TAP PAN DELAY

Parameter

DELAY TIME

PAN

HIGH GAIN

LOW GAIN

BALANCE (☆)

Value

164-63R

-15-+15[dB]

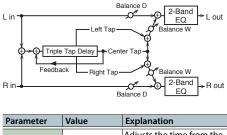
-15-+15[dB]

D100:0W-

D0:100W

0-2600[msec]

Produces three delay sounds; center, left and right.



| Parameter | Value | Explanation |
|---------------|---------------|--------------------------------|
| | | Adjusts the time from the |
| Delay Left, | 0–2600[msec] | original sound until the left, |
| Right, Center | 0-2600[HISEC] | right, and center delayed |
| | | sounds are heard |
| | | Adjusts the amount of the |
| CENTER | | delay sound that's fed back |
| FEEDBACK | -98-+98 [%] | into the effect. |
| FEEDBACK | | Negative (-) settings invert |
| | | the phase. |

Adjusts the frequency above which sound fed back to the 200-8000[Hz]. effect is filtered out. If you HF DAMP BYPASS do not want to filter out any

high frequencies, set this parameter to BYPASS.

Left, Right, 0 - 127Volume of each delay Center Level

HIGH GAIN -15-+15[dB] Gain of the high range LOW GAIN -15-+15[dB] Gain of the low range Volume balance between D100:0W-BALANCE (☆) the direct sound (D) and the D0:100W delay sound (W) LEVEL 0-127 Output level

TELEPHONE

This effect produces a muffled sound, like that heard through a telephone.

L in ______ Telephone _____ L out

| R in——— | Telephone | ——→ R out |
|---------|-----------|-----------|
| | | • |

Value

0-127

| · arainetei | | =xpiairation |
|----------------------|-------------|--|
| VOICE QUALITY (☆) | | Audio quality of the telephone voice |
| TREBLE | -15-+15[dB] | Bandwidth of the telephone voice |
| BALANCE | II | Volume balance between the direct sound (D) and the effect sound (W) |

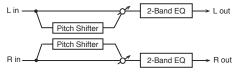
Explanation

Output level

PITCH SHIFTER

LEVEL

A stereo pitch shifter.



| Parameter | Value | Explanation |
|------------|---------------|---|
| COARSE (☆) | -24-+12[semi] | Adjusts the pitch of the pitch shifted sound in semitone steps. |

| DELAY TIME | 0–1300[msec] | the direct sound until the |
|------------|--------------|-------------------------------|
| | | pitch shifted sound is heard. |
| | | Adjusts the proportion of |
| | | the pitch shifted sound that |
| FEEDBACK | -98-+98 [%] | is fed back into the effect. |
| | | Negative (-) settings will |
| | | invert the phase. |
| HIGH GAIN | -15-+15[dB] | Gain of the high range |
| LOW GAIN | -15-+15[dB] | Gain of the low range |
| | D100:0W- | Volume balance between |
| BALANCE | D0:100:0W= | the direct sound (D) and the |
| | D0:100W | pitch shifted sound (W) |
| LEVEL | 0–127 | Output level |
| | | |
| | | |

Explanation Adjusts the pitch of the

2-cent steps.

pitch shifted sound in

Adjusts the delay time from

Value

-100-

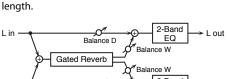
+100[cent]

Parameter

FINE

GATED REVERB

This is a special type of reverb in which the reverberant sound is cut off before its natural



2-Band R out R in Balance D

| | Parameter | Valu | e | Explanation |
|-----|----------------------------|--------|---|------------------------------|
| - 1 | | Type | of reverb | |
| | | NOR | | Conventional gated reverb |
| | | REVE | RSE | Backwards reverb |
| | TYPE | SWEEP1 | The reverberant sound | |
| | | SVVL | EPI | moves from right to left |
| | | SWE | רחם | The reverberant sound |
| | | SVVE | EPZ | moves from left to right |
| | | | | Adjusts the delay time from |
| | PRE DELAY | 0.0- | 100[msec] | the direct sound until the |
| | | | | reverb sound is heard. |
| İ | | | | Adjusts the time from when |
| | GATE TIME | 5-50 | 0[msec] | the reverb is heard until it |
| | | | - | disappears. |
| ı | HIGH GAIN | -15- | +15[dB] | Gain of the high range |
| | LOW GAIN | -15- | +15[dB] | Gain of the low range |
| ı | | D100 |):0W- | Volume balance between |
| | BALANCE (☆) | | | the direct sound (D) and the |
| | | D0:1 | 100W | reverb sound (W) |
| - | LEVEL | 0–12 | .7 | Output level |
| (| SEND LEV | FI) | | |
| ļ | JLIND LL V | LLJ | | |
| , | | | | |
| ĺ | Parameter | | Explanati | on |
| | MFX2, OUTPUT CHORUS REVERB | | Specifies the output level to MFX2 or OUTPUT. | |
| Ī | | | Sets the level of the signal sent to | |
| | | | chorus for | each part. |
| | | | Sets the le | evel of the signal sent to |
| | | | reverb for | each part. |
| | | | | |
| | | | | |



REVERB

| Parameter | Explanation | |
|-------------|---|--|
| REVERB TYPE | Switches reverb on/off, and selects the | |
| | type of reverb to use. | |
| I FVFI | Specifies the volume of the sound that | |
| LCVCL | has passed through reverb. | |

REVERB

| | Parameter | Value | Explanation | |
|--|-----------|----------------------|----------------------------|--|
| | | Type of reverb/delay | | |
| | | ROOM1 | Short reverb with high | |
| | | | density | |
| | | ROOM2 | Short reverb with low | |
| | | ROOM2 | density | |
| | | STAGE1 | Reverb with greater late | |
| | TYPE | | reverberation | |
| | | STAGE2 | Reverb with strong early | |
| | | | reflections | |
| | | HALL1 | Very clear-sounding reverb | |
| | | HALL2 | Rich reverb | |
| | | DELAY | Conventional delay effect | |
| | | PAN-DELAY | Delay effect with echoes | |
| | | | that pan left and right | |

| | Parameter | Value | Explanation | |
|--|-------------------|-------------------------|--|--|
| | TIME | 0–127 | Time length of reverberation (Type: ROOM1 – HALL2) Delay time (Type: DELAY, PAN-DELAY) | |
| | HF DAMP | 200–8000[Hz], BYPASS | Adjusts the frequency above which the high-frequency content of the reverb sound will be cut, or "damped." If you do not want to cut the high frequencies, set this parameter to BYPASS. | |
| | DELAY FEEDBACK | 0–127 | Adjusts the amount of delay feedback when the Type setting is DELAY or PAN-DELAY. Amount of delay sound returned to the input (this setting is valid only if Type is DELAY or PAN-DELAY) | |
| SRV ROOM, SRV HALL, SRV PLATE Parameter Value Explanation | | | | |
| | rurumeter | value | • | |
| | | | | |
| | PRE DELAY | 0.0– 100.0[msec] | Adjusts the delay time from the direct sound until the reverb sound is heard. | |
| | PRE DELAY TIME | | the direct sound until the reverb sound is heard. Time length of | |
| | | 100.0[msec] | the direct sound until the reverb sound is heard. | |

| Parameter | Value | Explanation |
|-----------------|--------------------|--|
| HIGH CUT | 160– 12500[Hz], | Adjusts the frequency above which the high- frequency content of the reverb will be reduced. If |
| | BYPASS | you do not want to reduce the high frequencies, set this parameter to BYPASS. |
| DENSITY | 0–127 | Density of reverb |
| DIFFUSION | 0–127 | Adjusts the change in the density of the reverb over time. The higher the value, the more the density increases with time. (The effect of this setting is most pronounced with long reverb times.) |
| LF DAMP FREQ | 50-4000[Hz] | Adjusts the frequency below which the low- frequency content of the reverb sound will be reduced, or "damped." |
| LF DAMP GAIN | -36–0[dB] | Adjusts the amount of damping applied to the frequency range selected with LF Damp. With a setting of "0," there will be no reduction of the reverb's low-frequency content. |
| HF DAMP FREQ | 4000– 12500[Hz] | Adjusts the frequency above which the high-frequency content of the reverb sound will be reduced, or "damped." |

| GAIN | -36-0[dB] | frequency range selected with HF Damp. With a setting of "0," there will be no reduction of the reverb's high-frequency content. | | |
|------------|-------------|--|--|--|
| GM2 REVERB | | | | |
| Parameter | Value | Explanation | | |
| | | Type of reverb | | |
| CHARACTER | 0–5 | Reverb | | |
| | | | | |
| | 6, 7 | Delay | | |
| PRE-LPF | 6, 7 0–7 | Delay Cuts the high frequency range of the sound coming into the reverb. | | |
| PRE-LPF | | Cuts the high frequency range of the sound coming | | |
| | 0–7 | Cuts the high frequency range of the sound coming into the reverb. Output level of | | |

Explanation

Adjusts the amount of

Parameter

Value



CHORUS

Parameter

CHORUS TYPE

| | | of chorus to use. | | | |
|---|-------------|--|----------------------------|--|--|
| | LEVEL | Specifies the volume of the sound that has | | | |
| | LEVEL | passed through chorus. | | | |
| | | MAIN | Output to the OUTPUT jack. | | |
| | OUTPUT | REV | Output to reverb. | | |
| | OUTPUT | MANNI DEV | Output both to the OUTPUT | | |
| | | MAIN+REV | jack and to reverb. | | |
| | CHORUS | | | | |
| (| • • • • • • | • • • • • • | | | |
| (| HORUS | Value | Explanation | | |

Switches chorus on/off, and selects the type

the direct sound until the

Frequency of modulation

Spatial spread of the sound Adjusts the amount of the chorus sound that is fed

chorus sound is heard.

Depth of modulation

back into the effect.

Explanation

0.0 -

0 - 127

0 - 127

100.0[msec]

0.05-10.00Hz

0-180[deg]

PRE DELAY

RATE

DEPTH

PHASE

FFFDBACK

| | FILTER TYPE | LPF | Cuts the frequency range above the Cutoff Freq |
|-------|------------------------------|--------------------------|--|
| | | HPF | Cuts the frequency range |
| Į | | | below the Cutoff Freq |
| | CUTOFF FREQ | 200-8000[Hz] | Basic frequency of the filter |
| DELAY | | | |
| L | • • • • • • | • • • • • • | • • • • • • • • • • • • • |
| | Parameter | Value | Explanation |
| | | Value | Explanation Adjusts the delay time from |
| | Delay Left, | Value 0–1000ms | Adjusts the delay time from the direct sound until the |
| | | | Adjusts the delay time from |
| | Delay Left, | | Adjusts the delay time from the direct sound until the delay sound is heard. Adjusts the proportion of |
| | Delay Left, Right, Center | | Adjusts the delay time from the direct sound until the delay sound is heard. Adjusts the proportion of the delay sound that is fed |
| | Delay Left, | | Adjusts the delay time from the direct sound until the delay sound is heard. Adjusts the proportion of |

200-8000[Hz],

BYPASS

Explanation

No filter is used

Negative (-) settings will invert the phase.
Adjusts the frequency above which sound fed back

to the effect will be cut. If

you do not want to cut the high frequencies, set this parameter to BYPASS.

Volume of each delay sound

Value

Type of filter OFF

Parameter

Left, Right, Center Level 0–127

HF DAMP

| Parameter | Value | Explanation |
|----------------------|-------|--|
| PRE-LPF | 0–7 | Cuts the high frequency range of the sound coming into the chorus. |
| LEVEL | 0-127 | Volume of the chorus sound |
| FEEDBACK | 0–127 | Adjusts the amount of the chorus sound that is fed back into the effect. |
| RATE | 0-127 | Frequency of modulation |
| DEPTH | 0-127 | Depth of modulation |
| SEND LEVEL TO REV | 0–127 | Adjusts the amount of chorus sound that will be sent to the reverb. |
| | | |
| | | |