



## D-50 Software Synthesizer

Owner's Manual

# Introduction

---

For details on the settings for the DAW software that you're using, refer to the DAW's help or manuals.

## About Trademarks

- VST is a trademark and software of Steinberg Media Technologies GmbH.
- Roland is a registered trademark or trademark of Roland Corporation in the United States and/or other countries.
- Company names and product names appearing in this document are registered trademarks or trademarks of their respective owners.



# Screen Structure

## Main window

This area shows various knobs and sliders that you can use to edit the sound.

## Level meter

Shows the output level.

## COMMON SELECT

By holding down the shift key and pressing the LOWER and UPPER buttons one after another, you can edit the LOWER and UPPER tone common parameters simultaneously. The tone common window of the button you press first opens.

### [PATCH] button

Opens the patch common window. Here you can edit the patch common parameters.

p. 5

### [LOWER] button

Opens the tone common window. Here you can edit the lower tone common parameters.

p. 6

### [UPPER] button

Opens the tone common window. Here you can edit the upper tone common parameters.

p. 6

## [NAME] button

Edits the patch memory name.

## Patch Memory name

Shows the name of the currently selected patch memory and the upper/lower tone names etc.

## [▼] [▲] buttons

Recall the next or previous patch memory.

## Joystick

If the COMMON SELECT [LOWER] or [UPPER] button is selected, you can move this up/down to adjust the balance of the lower/upper tones, or left/right to adjust the balance of partials 1/2.

## Keyboard area

Click here to produce sound.

## PARTIAL SELECT

By holding down the shift key and pressing two or more PARTIAL SELECT buttons, you can set their partial parameters simultaneously. The partial parameter window of the button you press first opens.

### LOWER [1] [2] buttons

Open the partial window.

Here you can edit the partial parameters of lower tone partial 1, lower tone partial 2, upper tone partial 1, and upper tone partial 2.

p. 7

### UPPER [1] [2] buttons

## [TOTAL VOLUME] slider

Adjusts the overall volume.

## [CHASE] button

Turns the Chase function on/off.

## [PORTAMENTO] button

Turns the Portamento function on/off.

The state of these controllers is saved in patch memory.

## PARTIAL ON-OFF

### LOWER [1] [2] buttons

Turn each partial on/off.

### UPPER [1] [2] buttons

The state of these controllers is saved in patch memory.

## [PATCH] button

Selects a patch memory. The Patch Select window opens.

p. 8

## [KEYBOARD] button

Toggles the keyboard area between visible and hidden.

## [OPTION] button

Here you can make various settings and authorize the software.

## [HELP] button

Displays help.

## [ABOUT] button

Here you can view information about the D-50 Software Synthesizer.

# How the Sound Engine Is Structured

## Patch

A "patch" contains sound data and data for the performance functions.

Multiple patches can be saved in patch memory, and freely recalled while you perform.

On D-50 Software Synthesizer, a patch consists of two sounds (the upper tone and lower tone), settings that specify how they are played, and settings such as keyboard mode, output mode, and reverb.

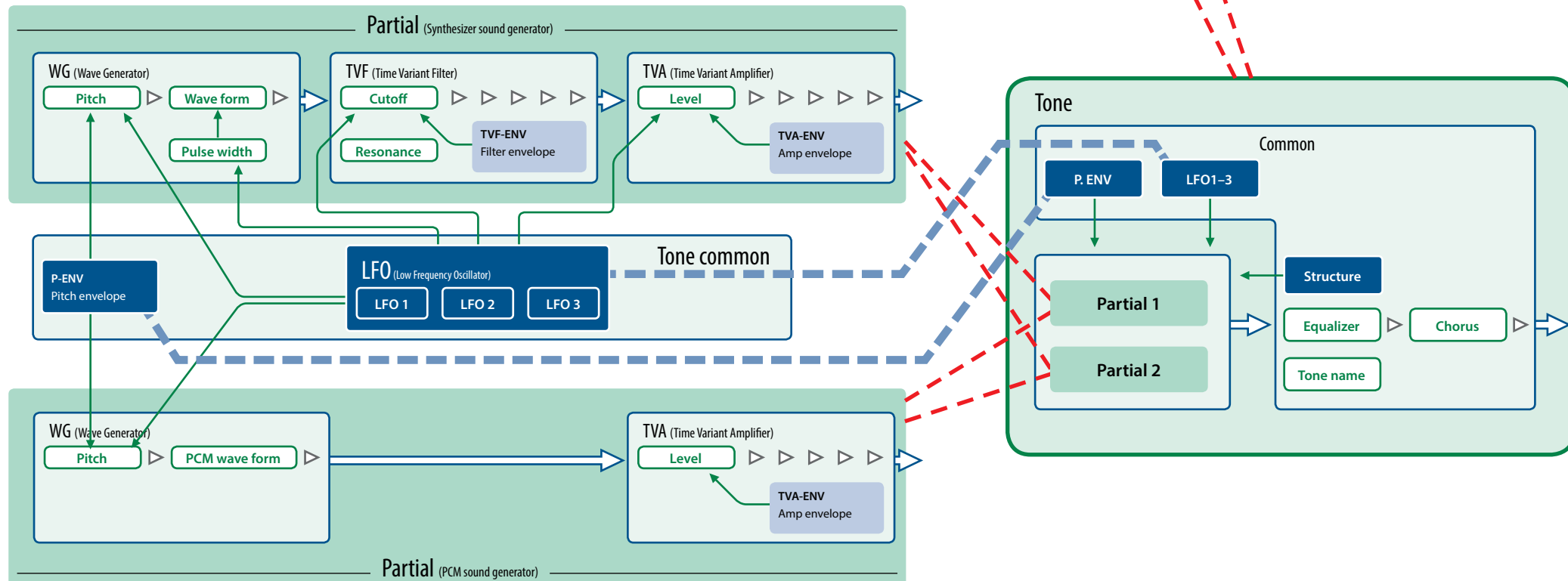
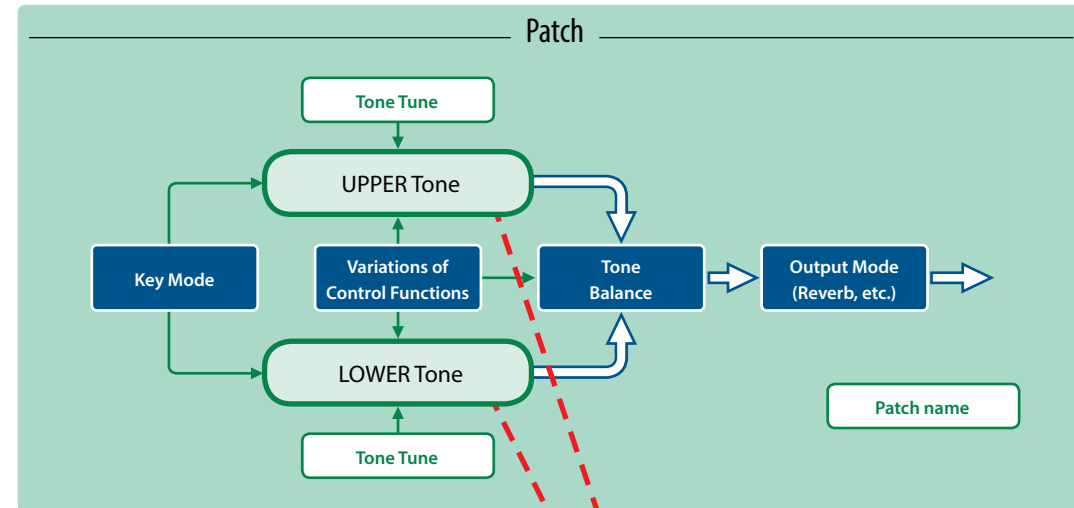
## Tone

The upper and lower tones each consist of two "partials" (sound sources) and common settings that specify how the partials are controlled.

The common settings include the type selections for the two partials, how the two partials are combined (the "structure"), and settings such as LFO, pitch envelope, equalizer, and chorus.

## Partial

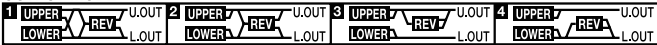
A "partial" is the most basic unit of sound on D-50 Software Synthesizer. There are two types of partial: a synthesizer sound generator and a PCM sound generator. Synthesizer type partials provide a TVF (Time Variant Filter) and a TVA, and PCM type partials provide a TVA (Time Variant Amplifier).



# Patch Common Window



| Parameter   |              | Value/ Explanation   |
|-------------|--------------|--|
| MASTER TUNE |              | Adjusts the pitch of the entire instrument.  |
| KEY MODE    | WHOLE:       | The upper tone can be played using up to 16 simultaneous notes.  |
|             | DUAL:        | Each key you press simultaneously plays the upper and lower tones layered (up to eight notes can be played simultaneously).  |
|             | SPLIT:       | The upper and lower tones play in separate regions of the keyboard divided at the split point that you specify; the right keys including the split point play the upper tone, and the left keys play the lower tone; up to eight notes can be played simultaneously in each region (middle C is C4). |
|             | WHOLE-S:     | The upper tone can be played monophonically.   |
|             | DUAL-S:      | Each key plays the upper and lower tones layered (monophonically).   |
|             | SPL-US:      | Divided at the split point, the upper tone plays monophonically, and the lower tone plays up to eight notes polyphonically.  |
|             | SPL-LS:      | Divided at the split point, the lower tone plays monophonically, and the upper tone plays up to eight notes polyphonically.  |
| SPLIT POINT |              | Specifies the split point when KEY MODE is set to SPLIT, SPL-US, or SPL-LS.  |
| L-KEY SHIFT |              | Shifts the pitch of the lower tone in the range of -24+24 (semitone steps).  |
| L-FINE TUNE |              | Finely adjusts the pitch of the lower tone in the range of -50+50 (approximately ±50 cents).   |
| U-KEY SHIFT |              | Shifts the pitch of the upper tone in the range of -24+24 (semitone steps).  |
| U-FINE TUNE |              | Finely adjusts the pitch of the upper tone in the range of -50+50 (approximately ±50 cents).   |
| TONE BAL    |              | Specifies the volume balance between the upper and lower tones.<br>(This can also be set using the joystick, p. 3)   |
| BEND        | BENDER RANGE | Specifies the range of pitch change produced by the bender lever, in the range of 0–12 (one octave, semitone steps).   |
|             | AFTER BEND   | Specifies the amount of pitch change produced by aftertouch.   |

| Parameter  |            | Value/ Explanation  |   |   |
|------------|------------|---|---|---|
| PERTAMENTO | PORTAMENTO | Turns portamento on/off.  |   |   |
|            | PORTA MODE | This selects the Tone that should take on the Portamento effect.<br>U: Works on the Upper Tone.<br>L: Works on the Lower Tone.<br>UL: Works on the both Tones.  |   |   |
|            |            | PORTA TIME  | Specifies the time over which portamento occurs.  |   |
|            |            | HOLD MODE   | This selects the Tone that on the Pedal Hold effect.<br>U: Upper tone<br>L: Lower tone<br>UL: Both tones  |   |
| CHASE      | CHASE      |   | Turns chase on/off.   |   |
|            | CHASE MODE |   | When KEY MODE is DUAL<br>UL: Sounds upper, then lower<br>ULL: Sounds upper, lower, lower repeatedly<br>ULU: Sounds upper, then lower repeatedly<br>When KEY MODE is WHOLE<br>UL: Sounds upper, then upper<br>ULL: Sounds upper, upper, upper repeatedly<br>ULU: Same as ULL |   |
|            |            | CHASE LEVEL   | Specifies the level of the delayed note relative to the upper note that is sounded first.   |   |
|            |            | CHASE TIME  | Adjusts the spacing of time between notes.  |   |
|            |            | OUTPUT MODE   | Specifies how the two tones including reverb are output.<br>OUTPUT MODE<br>  |   |
| REVERB     | REV TYPE   | Selects the reverb type.<br>1: Small Hall<br>2: Medium Hall<br>3: Large Hall<br>4: Chapel<br>5: Box<br>6: Small Metal Room<br>7: Small Room<br>8: Medium Room<br>9: Medium Large Room<br>10: Large Room<br>11: Single Delay (102 ms)<br>12: Cross Delay (180 ms)<br>13: Cross Delay (224 ms)<br>14: Cross Delay (148–296 ms)<br>15: Short Gate (200 ms)<br>16: Long Gate (48 ms)<br>17: Bright Hall<br>18: Large Cave<br>19: Steel Pan<br>20: Delay (248 ms)<br>21: Delay (338 ms)<br>22: Cross Delay (157 ms)<br>23: Cross Delay (252 ms)<br>24: Cross Delay (274–137 ms)<br>25: Gate Reverb<br>26: Reverse Gate (380 ms)<br>27: Reverse Gate (480 ms)<br>28: Slap Back (short)<br>29: Slap Back (mid)<br>30: Slap Back (long)<br>31: Twisted Space<br>32: Space |   |   |
|            |            | REV BAL   | Sets the volume of the reverb and direct sounds.  |   |
|            |            | TOTAL VOLUME  |   | Specifies the volume of the tone.<br>Use this setting to compensate for volume inconsistency between patches. |

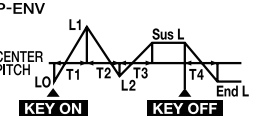
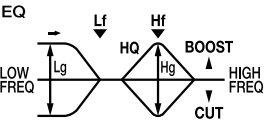
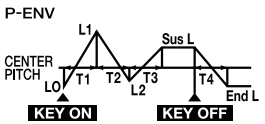


# Tone Common Window



| Parameter      | Value/ Explanation   |
|----------------|--|
| STRUCTURE      | <p>Selects one of seven patterns which specify the types of the two partials that make up the tone and specify how they are combined.</p> <p><b>STRUCTURE</b></p> <p>1 S 2 S 3 P 4 P 5 S 6 P 7 P</p> <p>S = SYNTHESIZER SOUND GENERATOR<br/>P = PCM SOUND GENERATOR<br/>R = RING MODULATOR</p>   |
| PART BAL       | <p>Specifies the volume balance of the two partials.</p> <p>(This can also be set using the joystick, p. 3)</p>  |
| PITCH MOD      | <p><b>LFO D</b> Specifies the depth of pitch modulation (vibrato) that LFO1 applies to the WG.</p> <p><b>LEVER</b> Specifies the sensitivity with which the bender lever controls the modulation depth.</p> <p><b>AFTER</b> Specifies the sensitivity with which aftertouch controls the modulation depth.</p>   |
| LFO1/LFO2/LFO3 | <p><b>WF</b> ~ (Triangle),  (Sawtooth),  (Square), RND (Random)</p> <p><b>RATE</b> Specifies the speed (frequency) of the LFO.</p> <p><b>DELAY</b> Specifies the time from key-on until the LFO effect begins to apply.</p> <p><b>SYNC</b> Specifies how the LFO cycle is synchronized.</p> <p>OFF: The LFO is not synchronized.</p> <p>ON: The LFO synchronizes when a key is pressed from a state of all keys released.</p> <p>KEY: The LFO synchronizes each time a key is pressed (LFO1 only).</p> |

| Parameter | Value/ Explanation   |
|-----------|--|
| PITCH ENV | <p><b>T1, T2, T3, T4</b> Specify the T1–T4 times shown in the illustration at right.</p> <p><b>TKF</b> Causes the PITCH ENV times to vary depending on the keyboard position of the key that you press.</p>  |
| LOW EQ    | <p><b>FREQ</b> Frequency of the low range.</p> <p><b>GAIN</b> Specifies the amount of boost/cut for the low-frequency region.</p>  |
| HIGH EQ   | <p><b>FREQ</b> Frequency of the high range.</p> <p><b>Q</b> Specifies the width of the high-frequency region. Set a higher value for Q to narrow the range to be affected.</p> <p><b>GAIN</b> Specifies the amount of boost/cut for the high-frequency region.</p>   |
| CHORUS    | <p>Selects the chorus type.</p> <p><b>TYPE</b></p> <ol style="list-style-type: none"><li>1: CHORUS1</li><li>2: CHORUS2</li><li>3: FLANGER1</li><li>4: FLANGER2</li><li>5: FB-CHORUS</li><li>6: TREMOLO</li><li>7: CHORUS TREMOLO</li><li>8: DIMENSION</li></ol> <p><b>RATE</b> Specifies the speed of the chorus effect.</p> <p><b>DEPTH</b> Specifies the depth of the chorus effect.</p> <p><b>BAL</b> Specifies the volume balance between the chorus sound and the original sound.</p> |
| PITCH ENV | <p><b>L0, L1, L2, SUS L, END L</b> Specifies the amount of pitch change for L0–L2, SUS L, and END L in the illustration at right.</p> <p><b>VELO</b> Specifies the sensitivity with which velocity controls the amount of pitch change specified by PITCH ENV.</p>   |
| TONE NAME | <p>Specifies the name of the tone (maximum 10 characters).</p>   |

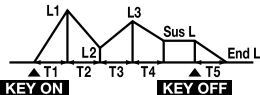
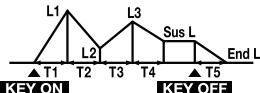


# Partial Window

If the partial type is PCM, some parameters are unused and grayed-out.



| Parameter   | Value/ Explanation  |
|-------------|---|
| WG PITCH    | <b>COARSE</b> Specifies the pitch of the partial in the range of C1–C7 (semitone steps).  |
|             | <b>FINE</b> Finely adjusts the pitch of the partial in the range of -50–+50 (approximately ±50 cents).  |
|             | <b>KF</b> Specifies the key pitch ratio (key follow). This value indicates the number of octaves of pitch change that occur in a span of 12 keys.   |
|             | Specifies how the LFO applies modulation.<br>OFF: Modulation is not applied.<br>(+): Modulation is applied by the LFO.<br>(-): Modulation is applied by the LFO with inverted phase.<br>A&L: Modulation is applied only by aftertouch and the bender lever. |
| WG LFO      | <b>LFO MODE</b> Specifies how the ENV applies modulation.<br>OFF: Modulation is not applied.<br>(+): Modulation is applied by the ENV.<br>(-): Modulation is applied by the ENV with inverted phase.  |
|             | <b>ENV MODE</b> Specifies the bender mode.<br>OFF: No change.<br>KEY: The pitch changes in the range of the BENDER RANGE setting summed with the WG's KF setting.<br>NOM: The pitch changes in the range specified by BENDER RANGE.                         |
|             | <b>BEND MODE</b>  |
|             | <b>WF</b> (Square),  (Sawtooth)   |
| WG WAVEFORM | <b>PW</b> Specifies the wave's duty (pulse width) as a percentage.  |
|             | <b>PW VELO</b> Specifies the sensitivity with which key velocity controls the duty, in the range of -7–+7.  |
|             | <b>PW AFTER</b> Specifies the sensitivity with which aftertouch controls the duty.  |

| Parameter          | Value/ Explanation   |  |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|--------------------|--|--|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| WG WAVEFORM        | <p>Selects the LFO that applies pulse width modulation (PWM).</p> <table><tr><th>Value</th><th>Explanation</th><th>Value</th><th>Explanation</th><th>Value</th><th>Explanation</th></tr><tr><td>+1:</td><td>LFO-1 (+)</td><td>+2:</td><td>LFO-2 (+)</td><td>+3:</td><td>LFO-3 (+)</td></tr><tr><td>-1:</td><td>LFO-1 (-)</td><td>-2:</td><td>LFO-2 (-)</td><td>-3:</td><td>LFO-3 (-)</td></tr></table> | Value  | Explanation | Value       | Explanation | Value       | Explanation | +1:         | LFO-1 (+) | +2:       | LFO-2 (+) | +3:       | LFO-3 (+) | -1:       | LFO-1 (-) | -2:       | LFO-2 (-) | -3:       | LFO-3 (-) |           |
|                    | Value  | Explanation  | Value       | Explanation | Value       | Explanation |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | +1:  | LFO-1 (+)  | +2:         | LFO-2 (+)   | +3:         | LFO-3 (+)   |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | -1:  | LFO-1 (-)  | -2:         | LFO-2 (-)   | -3:         | LFO-3 (-)   |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | PWM LFO SEL  |  |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
| PWM DEPTH          | Specifies the depth of PWM.  |  |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
| PCM                | If the partial type is PCM, this selects the sampled waveform.   |  |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
| TVF                | CUTOFF FREQ  | Specifies the cutoff frequency.  |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | RESO   | Specifies the resonance.   |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | KF   | Specifies how the cutoff frequency changes according to the key (key follow). This value is the same as for WG PITCH KF.   |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | BIAS POINT   | Specifies the reference key for KF bias.<br>[<] key: Bias is applied to KF in the region below the key.<br>[>] key: Bias is applied to KF in the region above the key.   |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | BIAS LEVEL   | Specifies the amount of KF bias.   |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | ENV DEPTH  | Specifies the depth by which the TVF ENV changes the cutoff frequency.   |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | ENV VELO   | Specifies the sensitivity with which key velocity affects the change in cutoff frequency produced by the TVF ENV.  |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | LFO SELECT   | Selects the LFO that applies cyclic change (growl) to the cutoff frequency. <table><tr><th>Value</th><th>Explanation</th><th>Value</th><th>Explanation</th><th>Value</th><th>Explanation</th></tr><tr><td>+1:</td><td>LFO-1 (+)</td><td>+2:</td><td>LFO-2 (+)</td><td>+3:</td><td>LFO-3 (+)</td></tr><tr><td>-1:</td><td>LFO-1 (-)</td><td>-2:</td><td>LFO-2 (-)</td><td>-3:</td><td>LFO-3 (-)</td></tr></table> | Value       | Explanation | Value       | Explanation | Value       | Explanation | +1:       | LFO-1 (+) | +2:       | LFO-2 (+) | +3:       | LFO-3 (+) | -1:       | LFO-1 (-) | -2:       | LFO-2 (-) | -3:       | LFO-3 (-) |
|                    | Value  | Explanation  | Value       | Explanation | Value       | Explanation |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | +1:  | LFO-1 (+)  | +2:         | LFO-2 (+)   | +3:         | LFO-3 (+)   |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
| -1:                | LFO-1 (-)  | -2:  | LFO-2 (-)   | -3:         | LFO-3 (-)   |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
| LFO DEPTH          | Specifies the depth to which the LFO cyclically modulates the cutoff frequency.  |  |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
| AFTER RANGE        | Specifies the sensitivity with which aftertouch controls the cutoff frequency.   |  |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
| TVF ENV<br>TVA ENV | T1, T2, T3, T4, T5   | Specify the times T1–T5 shown in the illustration at right.   |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | TKF  | Allows the keyboard position of the key to affect the time over which the TVF/TVA ENV change.  |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
| TVA                | LEVEL  | Specifies the volume of the partial.   |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | VELO   | Specifies the sensitivity with which key velocity controls the volume.   |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | BIAS POINT   | Specifies the reference key from which the key biases the volume.<br>[<] key: Bias is applied to the volume in the region below the key.<br>[>] key: Bias is applied to the volume in the region above the key.  |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | BIAS LEVEL   | Specifies the amount by which the key biases the volume.   |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | LFO SELECT   | Selects the LFO that applies cyclic change (tremolo) to the volume. <table><tr><th>Value</th><th>Explanation</th><th>Value</th><th>Explanation</th><th>Value</th><th>Explanation</th></tr><tr><td>+1:</td><td>LFO-1 (+)</td><td>+2:</td><td>LFO-2 (+)</td><td>+3:</td><td>LFO-3 (+)</td></tr><tr><td>-1:</td><td>LFO-1 (-)</td><td>-2:</td><td>LFO-2 (-)</td><td>-3:</td><td>LFO-3 (-)</td></tr></table>         | Value       | Explanation | Value       | Explanation | Value       | Explanation | +1:       | LFO-1 (+) | +2:       | LFO-2 (+) | +3:       | LFO-3 (+) | -1:       | LFO-1 (-) | -2:       | LFO-2 (-) | -3:       | LFO-3 (-) |
|                    | Value  | Explanation  | Value       | Explanation | Value       | Explanation |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | +1:  | LFO-1 (+)  | +2:         | LFO-2 (+)   | +3:         | LFO-3 (+)   |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
| -1:                | LFO-1 (-)  | -2:  | LFO-2 (-)   | -3:         | LFO-3 (-)   |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
| LFO DEPTH          | Specifies the depth of the cyclic volume change produced by the LFO.   |  |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
| AFTER RANGE        | Specifies the sensitivity with which aftertouch controls the volume.   |  |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
| TVF ENV<br>TVA ENV | L1, L2, L3, SUS L, END L   | Specify the volume levels L1–L3, SUS L, and END L shown in the illustration at right.   |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | DKF (TVF only)   | Allows the keyboard position of the key to affect the TVA ENV depth.   |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |
|                    | T1 VELO (TVA only)   | Specifies the sensitivity with which key velocity controls the TVA T1 time.  |             |             |             |             |             |             |           |           |           |           |           |           |           |           |           |           |           |           |

# Memory and Bank

## 1. Click the [PATCH] button.

The Patch Select screen appears.

The screenshot shows the Patch Select screen with a list of patches. A blue box highlights the [NEW], [DELETE], [LOAD], and [SAVE] buttons on the left. A callout points to the selected memory (A-1: Fantasia) with the text "The selected memory is highlighted." Another callout points to the [WRITE], [RENAME], and [READ] buttons at the bottom.

**[NEW] button**  
Creates a new empty bank.

**[DELETE] button**  
Deletes the selected bank.

**[LOAD] button**  
Imports a bank.

**[SAVE] button**  
Exports a bank as a file.

**[WRITE] button**  
Saves an edited sound as a memory in the bank.

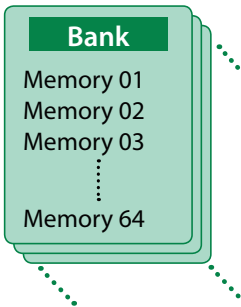
**[RENAME] button**  
Renames the selected memory.

**[READ] button**  
Loads a memory from a bank.

| PATCHES                 |                         |                      |                        |
|-------------------------|-------------------------|----------------------|------------------------|
| A-1: Fantasia           | C-1: Breathly Chiffer   | E-1: Glass Voices    | G-1: Nightmare         |
| A-2: Metal Harp         | C-2: Gamelan Bell       | E-2: Hollowed Harp   | G-2: Syn Marimba       |
| A-3: Jazz Guitar Duo    | C-3: Slap Brass         | E-3: Ethnic Session  | G-3: Slap Bass n Brass |
| A-4: Arco Strings       | E-4: Jete Strings       | G-4: String Ensemble |                        |
| A-5: Horn Section       | E-5: Stereo Polysynth   | G-5: Velo-Brass      |                        |
| A-6: Living Calliope    | E-6: Time Wave          | G-6: Digital Cello   |                        |
| A-7: D-50 Voices        | E-7: Syn-Harmonium      | G-7: O K Chorale     |                        |
| A-8: Slow Rotor         | E-8: Rock Organ         | G-8: Pianissimo      |                        |
| B-1: DigitalNativeDance | F-1: Staccato Heaven    | H-1: Intruder FX     |                        |
| B-2: Bass Marimba       | F-2: Oriental Bells     | H-2: Steel Pick      |                        |
| B-3: Flute-Piano Duo    | F-3: E-Bass and E-Piano | H-3: Synth Bass      |                        |
| B-4: Combie Strings     | F-4: Legato Strings     | H-4: Afterthought    |                        |
| B-5: Harpsichord Stabs  | F-5: JX Horns-Strings   | H-5: Bones           |                        |
| B-6: Griittarr          | F-6: Shakuhachi         | H-6: Bottle Blower   |                        |
| B-7: Nylon Atmosphere   | F-7: Choir              | H-7: Future Pad      |                        |
| B-8: Synthetic Electric | D-8: Piano-Fifty        |                      |                        |

## Bank

A set of 64 memories is called a "bank." By switching banks you can access a large number of memories.  
A bank of memories can be saved as a file.



## Switching Banks

### 1. Click the Bank field.

The bank list window opens.

### 2. Click the bank that you want to recall.

By pressing the [▲] [▼] buttons located at the right of the bank field, you can switch to the next or previous bank.

## Exporting the Bank

Here's how to export a bank as a file.

### 1. Click the [SAVE] button.

The file name input window opens.

### 2. Enter a file name and save.

The file is exported.

## Importing a Bank

### 1. Click the [LOAD] button.

The file selection window opens.

### 2. Select a file and load it.

The bank is loaded.



## Creating/Deleting a Bank

### Creating a bank

Click the [NEW] button to create a new empty bank.

### Deleting a bank

Here's how to delete the selected bank.

- 1. Select a bank as described in "Switching Banks" (p. 8).**
- 2. Click the [DELETE] button.**  
A confirmation screen appears.
- 3. Click [OK] to delete the bank.**

## Renaming a Bank

- 1. Select a bank as described in "Switching Banks" (p. 8).**
- 2. At the left of the bank field, click ►.**
- 3. Edit the name and press the [Return (Enter)] key.**

## Memory

The D-50 Software Synthesizer manages 64 memories as one bank.

### Loading a Memory

Here's how to load a memory from a bank. When you load a memory, its settings appear in the edit area and can be edited.

- 1. Click the number of the memory that you want to load.**
- 2. Click the [READ] button. Or press the [Return (Enter)] key.**

The memory is loaded.

\* You can also load a memory by double-clicking a memory number.

### Saving the Memory

Here's how to save an edited sound as a memory in the bank.

- 1. Click the number of the memory in which you want to save the sound.**
- 2. Click the [WRITE] button.**

The memory is saved in the bank.

### Renaming the Memory


- 1. Click the number of the memory that you want to rename.**
- 2. Click the [RENAME] button.**
- 3. Change the memory name. (Up to 16 letters)**

## Changing the Order of the Memories

Drag the memory number to change the order of memories.

## Keyboard shortcuts

Keyboard shortcuts for the Patch Select window.

| Key   | Function       |
|---|----------------|
| Command (Ctrl) + B  | Changes bank   |
| Command (Ctrl) + I  | Imports bank   |
| Command (Ctrl) + E  | Exports bank   |
| Command (Ctrl) + N  | New memory     |
| Command (Ctrl) + O  | Loads memory   |
| Command (Ctrl) + S  | Saves memory   |
| Up/Down/Left/Right  | Selects memory |
| Space   | Renames memory |
| Command (Ctrl) + C  | Copies memory  |
| Command (Ctrl) + V  | Pastes memory  |
| Delete *1   | Deletes memory |
| delete  *2 |                |
| fn + delete *2  |                |
| Return (Enter)  | Loads memory   |
| Command (Ctrl) + Z  | Undo           |
| Command (Ctrl) + Shift + Z  | Redo           |
| Esc   | Closes window  |

\*1 Windows / \*2 Mac

## MIDI Learn Function

You can assign MIDI control changes to sound parameters and control them.

## Making an Assignment



1. Right-click the controller (slider) of a sound parameter.
2. Choose "Learn MIDI CC."
3. Operate your external MIDI device to send a control change message to the plug-in.

## Clearing an Assignment



1. Right-click the controller (slider) of a sound parameter.
2. Choose "Forget MIDI CC."

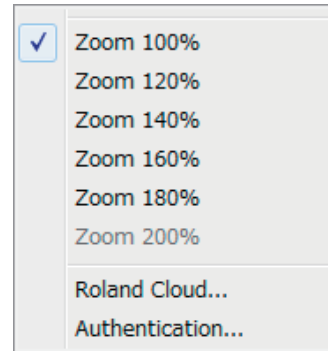
### NOTE

You can't assign multiple MIDI control changes to a single controller. Only the last-assigned control change is valid.

# Setting

## Option

1. Click the [OPTION] button.



2. Select items.

A ✓ is shown for the selected item.

| Item                                   | Explanation   |
|--|---|
| Zoom                                   | Changes the size of the main window.  |
| Flip Scroll Direction<br>(Only on Mac) | Inverts the direction of rotation when using the mouse wheel to edit a value. |
| Roland Cloud...                        | Displays the Roland Cloud site.   |
| Authentication...                      | Performs user authentication for the D-50 Software Synthesizer.               |