





Parameter Guide

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Parameter list

- \* Company names and product names appearing in this document are registered trademarks or trademarks of their respective owners.
- \* In this manual, company names and product names of the respective owners are used because it is the most practical way of describing the sounds that are emulated using DSP technology.

# **INST** parameters

The parameters that can be configured for each scene are called "scene parameters".

# INST SW/TYPE/LEVEL

Parameter	Value	Explanation
		Turns the instrument on/off.
INST SW	OFF, ON	Press the [SELECT] knob on the INST EDIT screen to switch between on/ off.
	E.GUITAR	Offers various electric guitar sounds.
	ACOUSTIC *1	Offers various acoustic guitar sounds.
	DUAL GUITAR *1	Lets you freely combine two guitar or bass guitar sounds.
	E.BASS	Offers various electric bass guitar sounds.
INST TYPE	AC BASS *2	Offers an acoustic bass sound.
	DUAL BASS *2	Lets you freely combine two bass guitar and guitar sounds.
	VIO GUITAR *1	_ Lets you add harmonics to create a
	VIO BASS *2	unique, gentle sound.
	SYNTH	Offers various synthesizer sounds.
INST LEVEL	0–100	Sets the volume of the instrument.
NORMAL MIX SW	OFF, ON	Sets the normal pickup signal on/off.
NORMAL MIX LEVEL	0–200	Sets the normal pickup volume on/ off.

\*1 Enabled for GUITAR MODE.

\*2 Enabled for BASS MODE.

## INST TYPE common parameters (ALT TUNE)

Lets you instantly switch between various tunings, while maintaining the tuning of the guitar/bass guitar on which the divided pickup is installed.

Parameter	Value	Explanation
ALT TUNE SW *10	OFF, ON	Turns the alternate tuning function on/off.
	Switches betwe	een alternate tuning functions.
ALT TUNE MODE *10	ALTTUNE	Shifts the pitch for each string in half steps. This lets you use open tunings like open-D or open-G, shift the tuning of all strings up/down an octave and so forth.
	HARMONY	Analyzes the pitch of each string and adjusts the amount that the pitch is shifted, converting the pitches into harmony pitches within a diatonic scale.
	OPEN D, OPEN E, OPEN G, OPEN A *1	A tuning with which the open strings play a major chord.
	DROP D-A	With "DROP D", the sixth string is tuned to a lower D.
	*1	For the other tunings, the DROP D tunings are lowered even further.
ALT TUNE TYPE *3 *10	D-MODAL *1	A tuning that drops the first, second and sixth strings a whole step for an ethnic feel.
~5 ~10	NASHVL *1	A tuning that raises the third, fourth, fifth and sixth strings one octave, giving the effect of playing just the secondary strings on a 12-string guitar.
	4TH *1	A tuning in fourths that raises the first and second strings by a half step.
	-12-+12 STEP	A tuning that lowers or raises all strings in half steps.
	USER	A user tuning that lets you set the tuning for each string.
PITCH 1–7 *1 *3 *5 PITCH HiC–LowB *2 *3 *5	-24-0-+24	Sets how much to shift the pitch of the strings, in semitones.
FINE 1–7 *1 *3 *5	-50-+50	Fine-tunes the pitch of each string.A setting of -50 lowers the pitch one
FINE HiC-LowB *2 *3 *5	-30-+30	semitone, and a setting of +50 raises the pitch one semitone.
	C (Am)–B (G#m)	<ul> <li>The key setting corresponds to the key of the song (<sup>#</sup>, <sup>b</sup>) as follows.</li> <li>* This parameter is the same as the KEY parameter on the MASTER block (p. 37).</li> </ul>
KEY *4	Major C F	B <sup>3</sup> E <sup>1</sup> A <sup>3</sup> D <sup>5</sup> <b>b</b> b b b b b b b b b b b b b b b b b b
	Major c G	D A E B F <sup>‡</sup> <u>#</u> <u>#</u> <u></u>

Parameter	Value	Explanation
HARMONY *4 *10	-2oct– UNISON– +2oct, USER	This determines the pitch of the sound added to the input sound, when you are making a harmony. It allows you to set it by up to 2 octaves higher or lower than the input sound. When the scale is set to USER, this parameter sets the user scale number to be used.
12STR SW *6 *10	OFF, ON	Turn this ON to simulate the sound of a 12-string guitar. This adds the sound of a sub-string to your normal six-string guitar sound, like a 12-string guitar.
12STR TYPE	NORMAL	This is the normal tuning for a 12-string guitar.
*7	USER	A user tuning that lets you set the tuning for each sub-string.
12STR PITCH 1–7 *1 *7 *8		Cata have received to all its the mitch of
12STR PITCH HiC-LowB *2 *7 *8	-24-0-+24	Sets how much to shift the pitch of the sub-strings, in semitones.
12STR FINE 1-7 *1 *7 *8		Fine-tunes the pitch of the sub-
12STR FINE HiC- LowB *2 *7 *8	-50-+50	string.A setting of -50 lowers the pitch one semitone, and a setting of +50 raises the pitch one semitone.
12STR LEVEL 1-7 *1 *7 *8		
12STR LEVEL HiC-LowB *2 *7 *8	0–100	Sets the volume of the sub-string.
12STR DELAY 1-7 *1 *7 *8 12STR DELAY HiC-LowB *2 *7 *8	<sup>-</sup> 0 ms–100 ms	Adjusts how long of a delay occurs before you hear the sub-string sound after you play the main string, for each string.
STR BEND SW *10	OFF, ON	Turns the string bend function on/off.
BEND CONTROL *10	0–100	When this is set to "0", the pitch is not shifted when you bend the string. When this is set to "100", the pitch is shifted by the amount set in BEND DEPTH6–BEND DEPTH1 (LowB–HiC). Normally, this should be set to "0", and you can use a control assignment to shift the bend value from 0 to 100.
BEND DEPTH 1-7 *1 *10		Sets how much to shift the pitch of each string when BEND CONTROL is
BEND DEPTH HiC-LowB *2 *10	-24-0-+24	set to "100". Sets how much to shift the pitch of the strings from the current pitch, in semitones.
A:STR DELAY 1–7 *9 B:STR DELAY 1–7 *9	0 ms–100 ms	Adjusts the amount that the sound is delayed for each string by DUAL GUITAR/DUAL BASS. When you combine two guitar/bass guitar sounds, you can delay the string sound of one of them to simulate a 12-string guitar. (This effect is not

\*1 Enabled for GUITAR MODE.

\*2 Enabled for BASS MODE.

\*3 Enabled when ALT TUNE MODE is "ALT TUNE".

applied when ALT TUNE SW is OFF.)

\*4 Enabled when ALT TUNE MODE is "HARMONY".

- \*5 Enabled when ALT TUNE TYPE is "USER". When INST TYPE is DUAL GUITAR or DUAL BASS, either "A:" or "B:" is prepended to the parameter name.
- \*6 Enabled when INST TYPE is E.GUITAR, E.BASS, ACOUSTIC, AC BASS, DUAL GUITAR or DUAL BASS.
- \*7 Enabled when INST TYPE is E.GUITAR, E.BASS, ACOUSTIC or AC BASS.
- \*8 Enabled when 12STR TYPE is "USER".
- \*9 Enabled when INST TYPE is DUAL GUITAR or DUAL BASS. At this time, either "A:" or "B:" is prepended to the parameter name.
- \*10 When INST TYPE is DUAL GUITAR or DUAL BASS, either "A:" or "B:" is prepended to the parameter name.

#### **USER SCALE**

\* Effective with USER selected for HARMONY parameter.

Parameter	Value
С	<b>▼</b> C- <b>▼</b> C-C- <b>▲</b> C- <b>金</b> C
D♭	$\bigstar D^{\flat} - \bigstar D^{\flat} - \square^{\flat} - \bigstar D^{\flat} - \bigstar D^{\flat}$
D	<b>▼</b> D- <b>▼</b> D-D- <b>▲</b> D- <b>▲</b> D
E⊧	$\mathbf{F} E^{\flat} - \mathbf{F} E^{\flat} - \mathbf{F}^{\flat} - \mathbf{F}^{\flat} - \mathbf{F}^{\flat} - \mathbf{F}^{\flat}$
E	<b>▼</b> E- <b>▼</b> E- <b>E</b> - <b>▲</b> E- <b>▲</b> E
F	<b>▼</b> F- <b>▼</b> F- <b>F</b> - <b>▲</b> F- <b>▲</b> F
F <sup>#</sup>	$\mathbf{F}^{\sharp} - \mathbf{F}^{\sharp} - \mathbf{F}^{\sharp} - \mathbf{F}^{\sharp} - \mathbf{F}^{\sharp}$
G	<b>¥</b> G- <b>▼</b> G-G- <b>▲</b> G- <b>▲</b> G
A♭	$\bigstar A^{\flat} - \bigstar A^{\flat} - A^{\flat} - \bigstar A^{\flat} - \bigstar A^{\flat}$
Α	<b>▼</b> A- <b>▼</b> A- <b>▲</b> A- <b>▲</b> A
B♭	$\bigstar B^{\flat} - \bigstar B^{\flat} - \blacktriangle B^{\flat} - \bigstar B^{\flat}$
В	<b>▼</b> B- <b>▼</b> B- <b>▲</b> B- <b>▲</b> B

The minus (-) and plus (+) symbols indicate sounds above or below the specified original note.

Triangles next to the note names indicate octaves.

One downward-pointing triangle indicates a note one octave below the note displayed; two triangles indicates a two-octave drop.

One upward-pointing triangle indicates a note one octave above the note displayed; two triangles indicates a two-octave rise.

### INST TYPE common parameters (STRING/ OTHERS)

These parameters are used to adjust the volume and pan for each string, the NS or EQ that works on the entire INST block and so forth.

- \* The NS (noise suppressor) is an effect that reduces noise and hum from the pickups of a guitar or bass guitar. Since it suppresses the noise in synchronization with the envelope of the guitar sound (the way in which the guitar sound decays over time), it has very little effect on the guitar sound, and does not harm the natural character of the sound.
- \* The EQ (equalizer) adjusts the tonal character of the sound. A parametric EQ is provided for adjusting the sound over four separate frequency bands.

Parameter	Value	Explanation
STRING LEVEL 1-7 *1 *3		
STRING LEVEL HiC–LowB *2 *3	0–100	Sets the output level for each string.
STRING PAN 1-7 *1 *3		
STRING PAN HiC- LowB *2 *3	L50–CENTER– R50	Sets the panning of each string's sound when using stereo output.
POSITION LIMIT SW *4	OFF, ON	Turns the position limit function on/ off. When this is ON, the instrument plays over the fret range set in POSITION LIMIT LOW and HIGH.
POSITION LIMIT LOW *4	NO LIMIT, 0–24FRET	Sets the fret range within which the
POSITION LIMIT HIGH *4	0–24FRET, NO LIMIT	instrument plays.
EQ SW *3	OFF, ON	Switches the EQ on/off.
EQ LOW CUT *3	FLAT, 20.0 Hz–16.0 kHz	Cuts the frequencies below the frequency that you set. When "FLAT" is selected, the low cut filter has no effect.
EQ LOW GAIN *3	-20 dB-+20 dB	Adjusts the low frequency range tone.
EQ LOW-MID FREQ *3	20.0 Hz–16.0 kHz	Specifies the center of the frequency range to be adjusted by the LOW-MID GAIN.
EQ LOW-MID Q *3	0.5, 1, 2, 4, 8, 16	Adjusts the width of the area affected by the EQ, centered on the frequency specified by LOW-MID FREQ. Higher values will narrow the area.
EQ LOW-MID GAIN *3	-20 dB-+20 dB	Adjusts the low-middle frequency range tone.
EQ HIGH-MID FREQ *3	20.0 Hz–16.0 kHz	Specifies the center of the frequency range to be adjusted by the HIGH- MID GAIN.
EQ HIGH-MID Q *3	0.5, 1, 2, 4, 8, 16	Adjusts the width of the area affected by the EQ, centered on the frequency specified by HIGH-MID FREQ. Higher values will narrow the area.
EQ HIGH-MID GAIN *3	-20 dB-+20 dB	Adjusts the high-middle frequency range tone.
EQ HIGH GAIN *3	-20 dB-+20 dB	Adjusts the tonal character of the high frequencies.

Parameter	Value	Explanation
EQ HIGH CUT *3	20.0 Hz–16.0 kHz, FLAT	Cuts the frequencies above the frequency that you set. When FLAT is selected, the high cut filter has no effect.
EQ LEVEL *3	-20 dB-+20 dB	Adjusts the overall volume level of the equalizer.
NS SW *3	OFF, ON	Switches the NS on/off.
NS THRESHOLD *3	0–100	Adjust this parameter as appropriate for the volume of the noise. If the noise level is high, a higher setting is appropriate. Adjust the value so that the decay of the guitar sound sounds natural.
NS RELEASE *3	0–100	Adjusts the time from when the noise suppressor begins to function until the noise level reaches "0".

\*1 Enabled for GUITAR MODE.

\*2 Enabled for BASS MODE.

- \*3 When INST TYPE is DUAL GUITAR or DUAL BASS, either "A:" or "B:" is prepended to the parameter name.
- \*4 Enabled when INST TYPE is DUAL GUITAR or DUAL BASS.

# **E.GUITAR** parameters

### GUITAR (In GUITAR MODE)

Parameter	Value	Explanation	
ТҮРЕ	Selects the electric guitar type "TYPE" (p. 7).		
	Selects the pickup position.		
	REAR	Rear pickup	
	R+C	Deer and contan nickuna	
	*1	Rear and center pickups	
	CENTER	Contor nickun	
	*1	Center pickup	
PU SELECT	C+F	Contor and front nickuns	
	*1	Center and front pickups	
	FRONT	Front pickup	
	R+F	Rear and front pickups	
	*2		
	ALL	All pickups	
	*3	All pickups	
TONE TYPE	MILD,		
*4	STANDARD, BRIGHT1,	Selects the fretless tone type.	
4	BRIGHT2		
SENS	0.100		
*4	0–100	This controls the input sensitivity.	
DEPTH	0 100	This controls the volume of the	
*4	0–100	harmonics.	
ATTACK	0–100	Adjusts the attack of the picking	
*4	0-100	sound.	
RESONANCE	0–100	Adds a characteristically resonant	
*4	0-100	quality to the sound.	
DIRECT MIX	0–100	Adjusts the volume of the direct sound.	
*4	0-100		
VOLUME	0–100	Adjusts the volume. With a setting of 0, there will be no sound.	
		Adjusts the tone of the body. The	
TONE	0–100	standard value is 100; lowering the	
		value creates a softer tone.	

\*1 Valid when the TYPE is set to CLA-ST, MOD-ST, or LIPS.

\*2 Valid when the TYPE is set to TE, LP, P-90, 335, L4, RICK, WIDE RANGE, or BRIGHT HUM.

\*3 Valid when the TYPE is set to LIPS.

\*4 Valid when the TYPE is set to FRETLESS.

#### TYPE

Value	Explanation
CLA-ST	The sound of a Fender Stratocaster. Simulates the installation of three single-coil pickups (passive type).
MOD-ST	This models a guitar with three EMG active single-coil pickups.
TE	The sound of a Fender Telecaster. This models a guitar with two single-coil pickups.
LP	The sound of a Gibson Les Paul Standard. Simulates the installation of two humbucking pickups (passive type).
P-90	The sound of a Gibson Les Paul Junior. This provides two single-coil pickups of the type used on fixed-neck guitars and affectionately known as soap-bar or dog-ear pickups.
335	The sound of a Gibson ES-335 Dot. Typical semi-acoustic guitar with two humbucking pickups.
14	The sound of a Gibson L-4 CES. Acoustic body guitar suited for jazz.
	Equipped with two humbucking pickups and strung with flat wound strings.
RICK	This models a Rickenbacker 360. Semi-hollow body guitar with two unique single-coil pickups.
LIPS	The sound of a Danelectro 56-U3. This models a guitar equipped with three pickups noted for their visual resemblance to lipstick tubes.
WIDE RANGE	This produces the fat sound typical of a larger number of coil windings than on a conventional single-coil pickup.
BRIGHT HUM	A conventional humbucking pickup places two coils side by side, causing the high frequencies to be canceled; however, this model produces a tone that preserves these high frequencies while retaining the characteristics of a humbucking pickup.
FRETLESS	This models a fretless guitar.

#### GUITAR (In BASS MODE)

Parameter	Value	Explanation	
	Selects the electric guitar type.		
	ST	The sound of a Fender Stratocaster. Simulates the installation of three single-coil pickups (passive type).	
ТҮРЕ	LP	The sound of a Gibson Les Paul Standard. Simulates the installation of two humbucking pickups (passive type).	
	FRETLESS	This models a fretless guitar.	
	Selects the pic	kup position.	
	REAR	Rear pickup	
	R+C *1	Rear and center pickups	
PU SELECT	CENTER *1	Center pickup	
	C+F *1	Center and front pickups	
	FRONT	Front pickup	
	R+F *2	Rear and front pickups	
TONE TYPE *3	MILD, STANDARD, BRIGHT1, BRIGHT2	Selects the fretless tone type.	
SENS *3	0–100	This controls the input sensitivity.	
DEPTH *3	0–100	This controls the volume of the harmonics.	
ATTACK *3	0–100	Adjusts the attack of the picking sound.	
RESONANCE *3	0–100	Adds a characteristically resonant quality to the sound.	
DIRECT MIX *3	0–100	Adjusts the volume of the direct sound.	
VOLUME	0–100	Adjusts the volume. With a setting of 0, there will be no sound.	
TONE	0–100	Adjusts the tone of the body. The standard value is 100; lowering the value creates a softer tone.	

\*1 Valid when the TYPE is set to ST.

\*2 Valid when the TYPE is set to LP.

\*3 Valid when the TYPE is set to FRETLESS.

# **ACOUSTIC** parameters

#### ACOUSTIC

Parameter	Value	Explanation	
ТҮРЕ	Selects the a	Selects the acoustic guitar type "TYPE" (p. 9).	
BODY *1	0–100	Adjusts the body resonation. Raising the value produces more of a sense of the guitar body in the sound. Lower the value in conditions where fee dBack is prone to occur.	
RESONANCE *2	0–100	Adjusts the body resonance. The resonation increases as the value is raised.	
VOLUME	0–100	Adjusts the volume. With a setting of 0, there will be no sound.	
TONE	-50-+50	Adjusts the tone of the body. The standard value is 0; raising the value boosts the high range.	
ATTACK *3	0–100	Specifies the strength of the attack when you pluck the string strongly. As this setting is increased, the attack will be sharper, and the sound will be crisper.	
SUSTAIN *4	0–100	You can specify how the resulting volume will be affected by changes (loud/soft dynamics) in the guitar string vibrations that are input. Adjusts the range (time) over which low-level signals are boosted.	
		Larger values will result in longer sustain.	
	Selects the p	ickup position.	
PU SELECT	FRONT	Front pickup	
*5	R+F	Rear and front pickups	
5	REAR	Rear pickup	
	PIEZO	Piezo pickup	
SENS *5	0–100	Adjusts the input sensitivity.	
COLOR *5	0–100	Adjusts the overall tone quality of the sitar.	
DECAY *5	0–100	Adjusts the time it takes following the attack for the tone to change.	
BUZZ *5	0–100	Adjusts the amount of characteristic buzz produced by the buzz bridge when the strings make contact with it.	

\*1 Valid when the TYPE is set to other than RESO or BANJO.

\*2 Valid when the TYPE is set to RESO or BANJO.

\*3 Valid when the TYPE is set to NYLON, BANJO, or SITAR.

\*4 Valid when the TYPE is set to RESO.

\*5 Valid when the TYPE is set to SITAR.

#### TYPE

ТҮРЕ	Evaluation	
ITPE	Explanation	
MA28	The sound of a Martin D-28. Older model known for its exquisitely balanced sound.	
TRP-0	The sound of a Martin 000-28. This model features a full low-end resonance and crisp, distinct contour.	
GB45	The sound of a Gibson J-45. This vintage model features a unique, seasoned tone with good response.	
GB SML	The sound of a Gibson B-25. Featuring a compact body, this vintage model is often used in blues.	
GLD40	The sound of a Guild D-40. This model features warm resonance from the body along with a delicate string resonance.	
NYLON	This models a nylon-string guitar.	
RESO	This models a Dobro-type resonator guitar.	
BANJO	This models a conventional five-string banjo.	
SITAR	This models a Coral electric sitar. The sitar's distinctive buzz and tonal change are modeled.	

# AC BASS parameters

#### AC BASS

Parameter	Value	Explanation
VOLUME	0–100	Adjusts the volume. With a setting of 0, there will be no sound.
BODY	0–100	This sets the volume level of the resonant sound produced by the panels and cavity (the body resonation).
RESONANCE	0–100	Adjusts the body resonance. The resonation increases as the value is raised.
SIZE	-50-+50	Specifies the size of the body. This modifies the resonant frequency to simulate changes in body size. A setting of 0 will produce a normal resonance.
ATTACK	0–100	Specifies the strength of the attack when you pluck the string strongly. The higher the value you set, the greater the intensity of the sound produced when the strings are played. The attack of the body sound will increase as well.
воттом	0–100	This sets the volume level of string vibration.
BUZZ SENS	0–100	This sets the sensitivity for the distinctive harmonics of an acoustic bass. Adjust this to match the velocity of fingering.
DECAY	0–100	This sets the decay of the string vibration.

# E.BASS parameters

### BASS (In GUITAR MODE)

Parameter	Value	Explanation
	Type of Bass	
TVDE	JB	The sound of a Fender Jazz Bass.
TYPE	PB	The sound of a Fender Precision Bass.
	FRETLESS	This models a fretless bass.
REAR VOLUME *1	0–100	Sets the volume of the rear pickup.
FRONT VOLUME *1	0–100	Sets the volume of the front pickup.
	Selects the fretl	ess tone type.
	JB (REAR)	The sound of the rear pickup of a Jazz Bass.
TONE TYPE *2	JB (R+F)	The sound of the rear pickup and front pickup of a Jazz Bass.
	JB (FRONT)	The sound of the front pickup of a Jazz Bass.
	PB	The sound of a Precision Bass.
SENS *2	0–100	This controls the input sensitivity.
DEPTH *2	0–100	This controls the volume of the harmonics.
ATTACK *2	0–100	Adjusts the attack of the picking sound.
RESONANCE *2	0–100	Adds a characteristically resonant quality to the sound.
DIRECT MIX *2	0–100	Adjusts the volume of the direct sound.
VOLUME	0–100	Adjusts the volume. With a setting of 0, there will be no sound.
TONE	0–100	Adjusts the tone of the body.

\*1 Valid when the TYPE is set to JB.

\*2 Valid when the TYPE is set to FRETLESS.

#### BASS (In BASS MODE)

Parameter	Value	Explanation
ТҮРЕ	Select the base	s guitar type "TYPE" (p. 10).
MASTER VOLUME *1	0–100	Sets the overall bass volume level. With a setting of 0, there will be no sound.
REAR VOLUME *1	0–100	Sets the volume of the rear pickup.
FRONT VOLUME *1	0–100	Sets the volume of the front pickup.
REAR TONE *2	0–100	Adjusts the tone of the rear pickup.
FRONT TONE *2	0–100	Adjusts the tone of the front pickup.
TREBLE *3	0–100	Adjusts the tone for the high frequency range.
BASS *3	0–100	Adjusts the tone for the low frequency range.
	Selects the pic	kup position.
PU SELECT	REAR	Use the rear pickup.
*4	R+F	Use both front and rear pickups.
	FRONT	Use the front pickup.
TREBLE ON *5	OFF, ON	Switches the rear pickup on/off.
BASS ON *5	OFF, ON	Switches the front pickup on/off.
	Switches betw	een rhythm and solo.
RHYTHM/SOLO	RHYTHM	The volume will be set to 50.
*5	SOLO	The volume will be set to 100.
	Selects the fret	tless tone type.
	JB (REAR)	The sound of the rear pickup of a Jazz Bass.
TONE TYPE *6	JB (R+F)	The sound of the rear pickup and front pickup of a Jazz Bass.
	JB (FRONT)	The sound of the front pickup of a Jazz Bass.
	PB	The sound of a Precision Bass.
SENS *6	0–100	This controls the input sensitivity.
DEPTH *6	0–100	This controls the volume of the harmonics.
ATTACK *6	0–100	Adjusts the attack of the picking sound.
RESONANCE *6	0–100	Adds a characteristically resonant quality to the sound.
DIRECT MIX *6	0–100	Adjusts the volume of the direct sound.
VOLUME *7	0–100	Adjusts the volume. With a setting of 0, there will be no sound.
TONE	0–100	Adjusts the tone of the body.

\*1 Valid when the TYPE is set to VINT JB, JB, RICK, T-BIRD, ACTIVE, or VIOLIN.

\*2 Valid when the TYPE is set to RICK.

 $^{\ast}3\,$  Valid when the TYPE is set to M-MAN or ACTIVE.

\*4 Valid when the TYPE is set to RICK.

\*5 Valid when the TYPE is set to VIOLIN.

\*6 Valid when the TYPE is set to FRETLESS.

\*7 Valid when the TYPE is set to VINT PB, PB, M-MAN, or FRETLESS.

\*8 Valid when the TYPE is set to VINT JB, JB, VINT PB, PB, T-BIRD, or FRETLESS.

#### TYPE

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Value	Explanation	
VINT JB	This models a Fender Jazz Bass from the sixties.	
JB	This models a Fender Jazz Bass from the late seventies or later.	
VINT PB	This models a Fender Precision Bass from the early sixties.	
РВ	This models a Fender Precision Bass from the late seventies or later.	
M-MAN	This models a Music Man StingRay Bass from the seventies.	
RICK	This models a Rickenbacker 4001.	
T-BIRD	This models a Gibson Thunderbird.	
ACTIVE	This models a typical bass equipped with active pickups.	
VIOLIN	This models a Höfner Violin Bass.	
FRETLESS	This models a fretless bass.	

# **DUAL GUITAR paremeters**

### **DUAL GUITAR**

Parameter	Value	Explanation
	SINGLE	Uses only one guitar, either "A" or "B".
MODE	DUAL	Uses both "A" and "B" guitars at the same time.
SELECT	А, В	When MODE is set to "SINGLE", this sets which guitar to use, "A" or "B".
BALANCE	100:0–100:100– 0:100	When MODE is set to "DUAL", this sets the volume balance between A and B.
	,	pe of instrument ("TYPE"), namely pustic guitar and electric bass guitar.
A:TYPE B:TYPE	Electric guitar: CLA-ST, MOD-ST, TE, LP, P-90, 335, L4, RICK, LIPS, WIDE RANGE, BRIGHT HUM, FRETLESS	Refer to "E.GUITAR paremeters" → "GUITAR (In GUITAR MODE)" → "TYPE" (p. 7 ).
	Acoustic guitar: MA28, TRP-0, GB45, GB SML, GLD 40, NYLON, RESO, BANJO, SITAR	Refer to "ACOUSTIC parameters" → "ACOUSTIC" → "TYPE" (p. 9).
	Electric bass guitar: JB, PB, PJ, FRETLESS B	Refer to "E.BASS parameters" → "BASS (In GUITAR MODE)" → "TYPE" (p. 9).
Refer to each	Electric guitar: CLA-ST, MOD-ST, TE, LP, P-90, 335, L4, RICK, LIPS, WIDE RANGE, BRIGHT HUM, FRETLESS	Refer to "E.GUITAR paremeters" → "GUITAR (In GUITAR MODE)" (p. 7).
type for explanations of the parameters included with each type.	Acoustic guitar: MA28, TRP-0, GB45, GB SML, GLD 40, NYLON, RESO, BANJO, SITAR	Refer to "ACOUSTIC parameters" → "ACOUSTIC" (p. 8).
	Electric bass guitar: JB, PB, PJ, FRETLESS B	Refer to "E.BASS parameters" → "BASS (In GUITAR MODE)" (p. 9).

# **DUAL BASS parementers**

# DUAL BASS

Parameter	Value	Explanation
MODE	SINGLE	Uses only one bass guitar, either "A" or "B".
	DUAL	Uses both "A" and "B" bass guitars at the same time.

SELECT	А, В	When MODE is set to "SINGLE", this sets which bass guitar to use, "A" or "B".
BALANCE	100:0–100:100– 0:100	When MODE is set to "DUAL", this sets the volume balance between A and B.
	This selects the type of instrument ("TYPE"), namely electric bass guitar, acoustic bass and electric guitar.	
А:ТҮРЕ В:ТҮРЕ	Electric bass guitar: VINT JB, JB, VINT PB, PB, PJ, M-MAN, RICK, T-BIRD, ACTIVE, VIOLIN, FRETLESS	Refer to "E.BASS paremeters" → "BASS (In BASS MODE)" → "TYPE" (p. 10).
	Acoustic bass: AC BASS	An acoustic bass sound.
	Electric guitar: ST, LP, FRETLESS G	Refer to "E.GUITAR paremeters" → "GUITAR (In BASS MODE)" → "TYPE" (p. 8).
Refer to each type for explanations of the parameters included with each type.	Electric bass guitar: VINT JB, JB, VINT PB, PB, PJ, M-MAN, RICK, T-BIRD, ACTIVE, VIOLIN, FRETLESS	Refer to "E.BASS paremeters" → "BASS (In BASS MODE)" (p. 10).
	Acoustic bass: AC BASS	Refer to "AC BASS parameters" $\rightarrow$ "AC BASS" (p. 9).
	Electric guitar: ST, LP, FRETLESS G	Refer to "E.GUITAR paremeters" → "GUITAR (In BASS MODE)" (p. 8).

# **VIO GUITAR parameters**

#### GUITAR

Parameter	Value	Explanation	
ТҮРЕ	Select the electric guitar type "TYPE" (p. 7).		
	Selects the pickup position.		
	REAR	Rear pickup	
	R+C	Rear and center pickups	
	*1	Rear and center pickups	
	CENTER	Center pickup	
	*1	Септегріскир	
PU SELECT	C+F	Conton and front mighting	
	*1	Center and front pickups	
	FRONT	Front pickup	
	R+F	Door and front nickung	
	*2	Rear and front pickups	
	ALL		
	*3	All pickups	
	MILD,		
TONE TYPE *4	STANDARD, BRIGHT1,	Selects the fretless tone type.	
^4	BRIGHT2		
SENS			
*4	0–100	This controls the input sensitivity.	
DEPTH	0.100	This controls the volume of the	
*4	0–100	harmonics.	
ATTACK	0 100	Adjusts the attack of the picking	
*4	0–100	sound.	
RESONANCE	0–100	Adds a characteristically resonant	
*4	0-100	quality to the sound.	
DIRECT MIX	0.100	Adjusts the volume of the direct several	
*4	0–100	Adjusts the volume of the direct sound.	
VOLUME	0–100	Adjusts the volume. With a setting of 0,	
		there will be no sound.	
TONE	0–100	Adjusts the tone of the body. The standard value is 100; lowering the	
TONE	0-100	value creates a softer tone.	

\*1 Valid when the TYPE is set to CLA-ST, MOD-ST, or LIPS.

\*2 Valid when the TYPE is set to TE, LP, P-90, RICK, 335, L4, WIDE RANGE, or BRIGHT HUM.

 $^{\ast}3\,$  Valid when the TYPE is set to LIPS.

\*4 Valid when the TYPE is set to FRETLESS.

#### HARMO

Here you can add overtones (harmonics) to the sound specified in the GUITAR block.

Parameter	Value	Explanation
РІТСН	-24-+24	Specifies the pitch of the harmonics in semitone units. A setting of -24 produces a sound two octaves below, and a setting of +24 produces a sound two octaves above. With a setting of 0, a harmonics sound at the same pitch as the original sound is heard.
GAIN	0–100	Specifies the volume of the harmonics sound. Larger values increase the volume of the harmonics sound.

Parameter	Value	Explanation
ATTACK	0–100	Emphasizes the attack portion of the harmonics sound. Larger values emphasize the attack.
DIRECT MIX	0–100	Adjusts the volume of the direct sound. Larger values increase the volume of the direct sound.

#### FILTER

Here you can use a filter to add depth to the sound and shape the tonal character.

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Parameter	Value	Explanation
OVERTONE	0–100	Modifies the nuances of the overtones. Larger values increase the overtones, giving the sound more depth.
ATTACK	0–100	Varies the nuances of the attack portion. Larger values emphasize the attack.
POWER BEND	0–100	Increasing this value will darken the sound. At the same time, the tone and volume will vary more easily in response to pitch change such as when using the vibrato arm.
SLIDE TIME	0–100	Larger values lengthen the time over which the tone changes from one note to the next on each string, producing an effect of smooth change between notes. At the same time, it tends to suppress the attack.
OCTAVE	-1, 0, +1	Adjusts the center frequency of the filter. A setting of 0 is the normal state, and a setting of -1 applies the filter at a frequency one octave below. A setting of +1 applies the filter at a frequency one octave above.
COLOR	0–100	Modifies the nuances of the overtones. Larger values produce a more detailed sound.
TOUCH SENS	0–100	Specifies how your playing dynamics on the guitar affect the tonal character. With larger values, stronger playing gives the sound more depth.
		Emphasizes the sound when single notes are played. With VIO guitar, single-note (single-
LEAD EMPHASIS	0–100	string) playing produces a lower output than when chords are played. Lead emphasis prevents this.
		Larger values boost the volume level of single notes. With a setting of 0, single notes are not emphasized.
DRY LEVEL	0–100	Sets the volume for the dry sound of the BASS block.

# **VIO BASS parameters**

#### BASS

Parameter	Value	Explanation									
ТҮРЕ		guitar type "TYPE" (p. 10).									
MASTER VOLUME *1	0-100	Sets the overall bass volume level. With a setting of 0, there will be no sound.									
REAR VOLUME *1	0–100	Sets the volume of the rear pickup.									
FRONT VOLUME *1	0–100	Sets the volume of the front pickup.									
REAR TONE *2	0–100	Adjusts the tone of the rear pickup.									
FRONT TONE *2	0–100	Adjusts the tone of the front pickup.									
TREBLE *3	0–100	Adjusts the tone for the high frequency range.									
BASS *3	0–100	Adjusts the tone for the low frequency range.									
	Selects the pick	sup position.									
PU SELECT	REAR	Use the rear pickup.									
*4	R+F	Use both front and rear pickups.									
	FRONT	Use the front pickup.									
TREBLE ON *5	OFF, ON	Switches the rear pickup on/off.									
BASS ON *5	OFF, ON	Switches the front pickup on/off.									
	Switches betwe	een rhythm and solo.									
RHYTHM/SOLO	RHYTHM	The volume will be set to 50.									
*5	SOLO	The volume will be set to 100.									
	Selects the fret	ess tone type.									
	JB (REAR)	The sound of the rear pickup of a Jazz Bass.									
TONE TYPE *6	JB (R+F)	The sound of the rear pickup and front pickup of a Jazz Bass.									
	JB (FRONT)	The sound of the front pickup of a Jazz Bass.									
	PB	The sound of a Precision Bass.									
SENS *6	0–100	This controls the input sensitivity.									
DEPTH *6	0–100	This controls the volume of the harmonics.									
ATTACK *6	0–100	Adjusts the attack of the picking sound.									
RESONANCE *6	0–100	Adds a characteristically resonant quality to the sound.									
DIRECT MIX *6	0–100	Adjusts the volume of the direct sound.									
VOLUME *7	0–100	Adjusts the volume. With a setting of 0, there will be no sound.									
TONE *8	0–100	Adjusts the tone of the body.									

- \*3 Valid when the TYPE is set to M-MAN or ACTIVE.
- \*4 Valid when the TYPE is set to RICK.
- \*5 Valid when the TYPE is set to VIOLIN.
- \*6 Valid when the TYPE is set to FRETLESS.
- \*7 Valid when the TYPE is set to VINT PB, PB, M-MAN, or FRETLESS.
- \*8 Valid when the TYPE is set to VINT JB, JB, VINT PB, PB, T-BIRD, or FRETLESS.

#### HARMO

Here you can add overtones (harmonics) to the sound specified in the GUITAR block.

Parameter	Value	Explanation
РІТСН	-24-+24	Specifies the pitch of the harmonics in semitone units. A setting of -24 produces a sound two octaves below, and a setting of +24 produces a sound two octaves above. With a setting of 0, a harmonics sound at the same pitch as the original sound is heard.
GAIN	0–100	Specifies the volume of the harmonics sound. Larger values increase the volume of the harmonics sound.
АТТАСК	0–100	Emphasizes the attack portion of the harmonics sound. Larger values emphasize the attack.
DIRECT MIX	0–100	Adjusts the volume of the direct sound. Larger values increase the volume of the direct sound.

\*1 Valid when the TYPE is set to VINT JB, JB, RICK, T-BIRD, ACTIVE, or VIOLIN.

\*2 Valid when the TYPE is set to RICK.

#### FILTER

• Here you can use a filter to add depth to the sound and shape the tonal character.

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Parameter	Value	Explanation									
OVERTONE	0–100	Modifies the nuances of the overtones. Larger values increase the overtones, giving the sound more depth.									
ATTACK	0–100	Varies the nuances of the attack portion. Larger values emphasize the attack.									
POWER BEND	0–100	Increasing this value will darken the sound. At the same time, the tone and volume will vary more easily in response to pitch change such as when using the vibrato arm.									
SLIDE TIME	0–100	Larger values lengthen the time over which the tone changes from one note to the next on each string, producing an effect of smooth change between notes. At the same time, it tends to suppress the attack.									
OCTAVE	-1, 0, +1	Adjusts the center frequency of the filter. A setting of 0 is the normal state, and a setting of -1 applies the filter at a frequency one octave below. A setting of +1 applies the filter at a frequency one octave above.									
COLOR	0–100	Modifies the nuances of the overtones. Larger values produce a more detailed sound.									
TOUCH SENS	0–100	Specifies how your playing dynamics on the bass affect the tonal character. With larger values, stronger playing gives the sound more depth.									
		Emphasizes the sound when single notes are played.									
LEAD EMPHASIS	0–100	With VIO bass, single-note (single- string) playing produces a lower output than when chords are played. Lead emphasis prevents this.									
		Larger values boost the volume level of single notes. With a setting of 0, single notes are not emphasized.									

# SYNTH paremeters

#### SYNTH

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Parameter	Value	Explanation
	Selects the SYN1	ΓH type.
		This models the Roland GR-300, the famed analog polyphonic guitar synthesizer of yesteryear.
	GR-300 *1	With the HEXA-DISTORTION effect and pitch-shifting six-string sawtooth wave generation from the instrument's HEXA VCO and VCF (variable frequency filter) brings out all the nuance from guitar performance, yet with the tone of an analog synthesizer.
SYNTH TYPE	ANALOG GR *2	A vintage analog polyphonic bass synthesizer sound. This synth features hexa-distortion along with a hexa- VCO and VCF (frequency-variable filter), which generates sawtooth waves with shiftable pitches that are independent for each string. This lets you enjoy the sounds of an analog synthesizer while retaining the playing nuances of the bass guitar.
	SOLO	This is a soft lead instrument.
	FILTER BASS	This instrument is like a bass whose sound is passed through a filter.
	CRYSTAL	This is an Instrument providing a metallic luster.
	ORGAN	This is a Long Tone instrument suitable for playing solo parts or slow songs. Like an organ, you should balance out the volume level for each parameter to create just the sound you're after.
VOLUME	0–100	Sets the output level for the synth.

\*1 Enabled for GUITAR MODE.

\*2 Enabled for BASS MODE.

# GR-300 (in GUITAR MODE)/ANALOG GR (in BASS MODE) parameters

### GR-300/ANALOG GR

Parameter	Value	Explanation									
		er to sound the hexa-VCO (sawtooth -distortion (square wave), or both.									
MODE	VCO	Only the hexa-VCO will sound.									
MODE	V+D	The hexa-VCO and hexa-distortion will sound together.									
	DIST	Only the hexa-distortion will sound.									
COMP SW *1	OFF, ON	If this is "ON", the decay time of the hexa-VCO will be extended.									
CUTOFF	0–100	Adjusts the cutoff frequency at which the filter cuts off the sound's harmonic components.									
RESONANCE	0–100	Adjusts the amount of filter resonance (distinctiveness of the sound) used.									
	according to the	Ily changes the VCF cutoff frequency e amplitude of the string vibration. This nange the tone with a wah-like effect nick a string.									
	OFF	Turns envelope modulation off.									
	ON	This causes the VCF cutoff frequency to change from a high to low frequency each time the string is picked.									
ENV MOD SW	ON	This produces a wah-like effect, with the sound going from high frequencies to low.									
	INV	As opposed to the ON setting, this allows you to have the VCF cutoff frequency change from a low to high frequency each time the string is picked.									
		This produces a reverse wah-like effect, with the sound going from low frequencies to high.									
ENV MOD SENS	0–100	Adjusts the input sensitivity of the envelope modulation. As the value is raised, the change from the envelope modulation broadens with even weaker picking.									
ENV MOD ATTACK	0–100	Adjusts the attack time for the change in the envelope modulation produced by picking.									
		Raising the value slows the attack for this change.									
PITCH SW	OFF, A, B	This setting allows you to switch A, B and OFF the pitch shift, which enables the pitch of the HEXA-VCO sound to shift in response.									
*1		<ul> <li>Pitch shift applies only to the hexa- VCO; it does not apply to hexa- distortion.</li> </ul>									
PITCH A PITCH B *1	-12-+12	This sets the amount of shift in pitch from the original sound in semitone increments.									
FINE A FINE B *1	This finely adjusts the p										

Parameter	Value	Explanation								
		If this is "ON", a sawtooth wave at the same pitch as the original sound will be added to the hexa-VCO, making the sound richer.								
		MEMO								
DUET SW *1	OFF, ON	By setting the hexa-VCO's pitch shift to a PITCH setting such as +/-12 (an octave up/down), +/- 7 (a perfect fifth), or +/-5 (a perfect fourth), you can create thick, synthesizer-like sounds.								
		By setting PITCH FINE to about "+/-5" to slightly skew the pitch shift of the hexa-VCO, you can give the sound greater depth.								
SWEEP SW *1	OFF, ON	This is a Sweep function that smoothly changes the amount of shift when you use PITCH SW to vary the amount of pitch shift.								
SWEEP RISE *1	0–100	Adjusts the amount of time for the pitch to shift when the PITCH SW parameter is switched and the sound changes to a higher pitch. If this is "0", the change will occur instantly; higher values produce slower								
		change.								
SWEEP FALL	0-100	Adjusts the amount of time for the pitch to shift when the PITCH SW parameter is switched and the sound changes to a lower pitch.								
*1		If this is "0", the change will occur instantly; higher values produce slower change.								
VIBRATO SW *1	OFF, ON	Allows you to apply electronic vibrato to the hexa-VCO.								
VIBRATO RATE *1	0–100	Adjusts the rate of the vibrato.								
VIBRATO DEPTH *1	0–100	Adjusts the depth of the vibrato.								
LOW CUT	FLAT, 20.0 Hz–16.0 kHz	Cuts the frequency region below the specified frequency. When FLAT is selected, the low cut filter will have no effect.								
HIGH CUT	20.0 Hz–16.0 kHz, FLAT	Cuts the frequency region above the specified frequency. When FLAT is selected, the high cut filter will have no effect.								

\*1 Valid when the MODE is set to VCO or V+D.

### SOLO parameters

#### SOLO

#### Parameter Explanation Value Adjusts the cutoff frequency, setting FILTER the brightness (hardness) of the sound. 0-100 CUTOFF Thesound gets brighter (harder) as the value is raised. Adjusts the resonance (distinctiveness of the sound). As the value is increased, FILTER RESO 0-100 sounds in the frequency range near the cutoff frequency are boosted, making the sound more distinctive and unique. This sets the sensitivity when the filter is shifted according to the picking. The shifting of the filter caused by the TOUCH SENS 0-100 picking increases as the value is raised. When the value is set to 0, the filter remains set, with no movement. Adjusts the amount of harmonics in the sound when the guitar/bass strings are played with greater force. The harmonic components become more prominent as the value is raised. COLOR 0-100 MEMO To make adjustment easier, set FILTER CUTOFF to 100 and FILTER RESO and TOUCH SENS to 0, then gradually increase the COLOR setting as you play the guitar/bass. Adjusts the range (time) over which SUSTAIN 0-100 lowlevel signals are boosted. Larger values will result in longer sustain.

### **FILTER BASS parameters**

#### FILTER BASS

Parameter	Value	Explanation
FILTER CUTOFF	0–100	Adjusts the cutoff frequency, setting thebrightness (hardness) of the sound. Thesound gets brighter (harder) as the value is raised.
FILTER RESO	0–100	Adjusts the resonance (distinctiveness of the sound). As the value is increased, sounds in the frequency range near the cutoff frequency are boosted, making the sound more distinctive and unique.
TOUCH SENS	0–100	This sets the sensitivity when the filter is shifted according to the picking. The shifting of the filter caused by the picking increases as the value is raised. When the value is set to 0, the filter remains set, with no movement.
FILTER DECAY	0–100	This sets the speed at which the filter stops. The speed increases as the value of the setting is reduced. * The decay effect cannot be obtained
		if the TOUCH SENS value is too low.
COLOR	0–100	Adjusts the strength of the low range. As the value is increased, the low range will become stronger.

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# **CRYSTAL** parameters

# CRYSTAL

Parameter	Value	Explanation
ATTACK LENGTH	0–100	This sets the decay time for the attack portion of the sound. A smaller setting results in a shorter attack.
MOD TUNE	0–100	This sets the tuning for the modulation applied to the attack.
MOD DEPTH	0–100	This sets the depth of the modulation applied to the attack. Larger values result in deeper undulations.
ATTACK LEVEL	0–100	This sets the volume level of the attack portion.
BODY LEVEL	0–100	This sets the volume level for the sustained portion of the sound.
SUSTAIN	0–100	Adjusts the range (time) over which low-level signals are boosted. Larger values will result in longer sustain.

# **ORGAN** parameters

# ORGAN

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Parameter	Value	Explanation
FEET 16	0–100	A long tone that's one octave lower than the fundamental tone.
FEET 5+1/3	0–100	A long tone that's a perfect fifth above the fundamental tone.
FEET 8	0–100	A long tone that's the same pitch as the fundamental tone.
FEET 4	0–100	A long tone that's one octave above the fundamental tone.
FEET 2+2/3	0–100	A long tone that's one octave and a perfect fifth above the fundamental tone.
FEET 2	0–100	A long tone that's two octaves above the fundamental tone.
FEET 1+3/5	0–100	A long tone that's two octaves and a major third above the fundamental tone.
FEET 1+1/3	0–100	A long tone that's two octaves and a perfect fifth above the fundamental tone.
FEET 1	0–100	A long tone that's three octaves above the fundamental tone.
SUSTAIN	0–100	Adjusts the range (time) over which lowlevel signals are boosted. Larger values will result in longer sustain.

# **EFFECT** parameters

### FX1-FX3

With FX1, FX2 and FX3, you can select the effect to be used from the following.

Parameter	Value	Explanation							
ON/OFF	OFF, ON	Turns this effect on/off.							
ТҮРЕ	Refer to FX1/FX2/FX3 TYPE								

#### FX1/FX2/FX3 TYPE

This is a list of the effects that can be selected for FX1/FX2/FX3.

Value	Explanation	Page
AC RESONANCE	This processor allows you to change the sound produced by the pickup on an acoustic electric guitar, creating a richer sound similar to that obtained with a microphone placed close to the guitar.	p. 18
AUTO WAH	This changes the filtering over a periodic cycle, providing an automatic wah effect.	р. 19
CHORUS	In this effect, a slightly detuned sound is added to the original sound to add depth and breadth.	р. 19
CLASSIC-VIBE	Although this resembles a phaser effect, it also provides a unique undulation that you can't get with a regular phaser.	p. 19
COMPRESSOR	This is an effect that produces a long sustain by evening out the volume level of the input signal. You can also use it as a limiter to suppress only the sound peaks and prevent distortion.	p. 20
DEFRETTER	This simulates a fretless guitar.	p. 20
DEFRETTER BASS	This simulates a fretless bass.	p. 20
DELAY	Adds delayed sound to the direct sound, giving more body to the sound or creating special effects.	р. 20
FLANGER FLANGER BASS	The flanging effect gives a twisting, jet- airplane-like character to the sound.	p. 21
FOOT VOLUME	This is a volume control effect. Typically, you will operate this using an expression pedal connected to the CTL3,4/EXP1 jack or the CTL5,6/EXP2 jack.	p. 21
GRAPHIC EQ	This effect adjusts the tonal character. Seven frequency bands can be adjusted.	p. 22
HARMONIST	Harmonist is an effect where the amount of shifting is adjusted according to an analysis of the guitar/bass input, allowing you to create harmony based on diatonic scales.	p. 22
HUMANIZER	This can create human vowel-like sounds.	р. 23
ISOLATOR	An effect that cuts the sound of the specified region.	p. 23
LIMITER	Attenuates loud input levels to prevent distortion.	p. 23
LO-FI	This deliberately degrades the audio quality to create a distinctive impression.	p. 23
OCTAVE OCTAVE BASS	This adds a note one octave lower and a note two octaves lower, creating a richer sound.	p. 23

Value	Explanation	Page
PAN	With the volume level of the left and right sides alternately changing, when playing sound in stereo, you can get an effect that makes the guitar sound appear to fly back and forth between the speakers.	p. 24
PARAMETRIC EQ	This effect adjusts the tonal character. Four frequency bands can be adjusted.	p. 24
PEDAL BEND	This lets you use the pedal to get a pitch bend effect.	p. 24
PHASER	By adding varied-phase portions to the direct sound, the phaser effect gives a whooshing, swirling character to the sound.	p. 24
PITCH SHIFTER	This effect changes the pitch of the original sound (up or down) within a range of two octaves.	p. 25
REVERB	This effect adds reverberation to the sound.	p. 25
RING MOD	This creates a bell-like sound by ring- modulating the guitar/bass sound with the signal from the internal oscillator. The sound can be unmusical and lack distinctive pitches.	p. 26
ROTARY	This produces an effect like the sound of a rotary speaker.	p. 26
SITAR SIM	This simulates the sound of the sitar.	р. 26
SLICER	This consecutively interrupts the sound to create the impression that a rhythm backing phrase is being played.	p. 26
SLOW GEAR	This produces a volume-swell effect	n 27
SLOW GEAR BASS	("violin-like" sound).	p. 27
SOUND HOLD	You can have sound played on the guitar /bass be held continuously. This effect allows you to perform the melody in the upper registers while holding a note in the lower registers.	р. 27
TOUCH WAH	You can produce a wah effect with the	
TOUCH WAH BASS	filter changing in response to the guitar/ bass level.	p. 27
TREMOLO	Tremolo is an effect that creates a cyclic change in volume.	p. 27
VIBRATO	This effect creates vibrato by slightly modulating the pitch.	p. 27
WAH	You can control the wah effect in real time by the expression pedal connected to the CTL 2, 3/EXP 1 jack or CTL 4, 5/EXP 2 jack.	p. 28

### AC RESONANCE

This processor allows you to change the sound produced by the pickup on an acoustic electric guitar, creating a richer sound similar to that obtained with a microphone placed close to the guitar.

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Parameter	Value	Explanation
ТҮРЕ	NATURAL	A natural and uncolored sound.
	WIDE	Mellow sound that emphasizes the body resonance
	BRIGHT	Brilliant sound with an extended high- frequency range
RESONANCE	0–100	Use this knob to adjust the balance between the body resonance effect of the acoustic guitar and the direct sound of the pickup.
TONE	-50-+50	Adjusts the tone.
LEVEL	0–100	Specifies the volume of the effect.

#### AUTO WAH

This changes the filtering over a periodic cycle, providing an automatic wah effect.

Parameter	Value	Explanation
	Selects the wah	mode.
	LPF	Low pass filter. Passes only the low- frequency region.
FILTER MODE	BPF	Band pass filter. Passes only the specified frequency region.
	HPF	High pass filter. Passes only the high- frequency region.
RATE	0–100, BPM	Adjusts the frequency (speed) of the
*1	liol-	change.
DEPTH	0–100	Adjusts the depth of the effect.
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
FREQUENCY	0–100	Adjusts the center frequency of the Wah effect.
RESONANCE	0–100	Adjusts the amount of wah effect applied in the range near the reference frequency.
WAVEFORM	TRI, SINE	Selects the type of wave.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
ВРМ	40–250	Adjusts the BPM value for each memory.

\*1 Refer to "About effects when a note value is selected as a setting" (p. 37)".

#### **CHORUS**

In this effect, a slightly detuned sound is added to the original sound to add depth and breadth.

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Parameter	Value	Explanation	
MODE	Selection for the chorus mode.		
	MONO	This chorus effect outputs the same sound from both L channel and R channel.	
	STEREO1	This stereo chorus uses spatial synthesis, with the direct sound output in the L channel and the effect sound output in the R channel.	
	STEREO2	This is a stereo chorus effect that adds different chorus sounds to L channel and R channel.	
	DUAL	This lets you apply chorus independently to the L and R channels.	
RATE *2			
RATE 1 RATE 2 *1 *2	0–100, BPM	Adjusts the rate of the chorus effect.	
DEPTH			
DEPTH 1	0-100	Adjusts the depth of the chorus effect.	
DEPTH 2	0-100	<ul> <li>To use it for doubling effect, set the value to 0.</li> </ul>	
*1			
PRE-DELAY		Adjusts the time needed for the effect sound to be output after the direct	
PRE-DELAY 1 PRE-DELAY 2 *1	0.0 ms-40.0 ms	sound has been output. By setting a longer pre delay time, you can obtain an effect that sounds like more than one sound is being played at the same time (doubling effect).	

Parameter	Value	Explanation
EFFECT LEVEL 1 EFFECT LEVEL 1 EFFECT LEVEL 2 *1	0–100	Adjusts the volume of the effect sound.
WAVEFORM	TRI	Produces a typical chorus effect.
WAVEFORM 1 WAVEFORM 2 *1	SINE	Produces a deeper sense of modulation.
LOW CUT LOW CUT 1 LOW CUT 2 *1	FLAT, 20.0 Hz–16.0 kHz	This sets the frequency at which the low cut filter begins to take effect. When FLAT is selected, the low cut filter will have no effect.
HIGH CUT HIGH CUT 1 HIGH CUT 2 *1	20.0 Hz–16.0 kHz, FLAT	This sets the frequency at which the high cut filter begins to take effect. When FLAT is selected, the high cut filter will have no effect.
DIRECT MIX	0–100	Adjusts the volume of the direct sound. Setting this to 0 cuts the direct sound.
OUTPUT MODE	MONO	This setting is appropriate for mono output.
*1	STEREO	Produces a rich spaciousness when stereo output is used.
ВРМ	40–250	Adjusts the BPM value for each memory.

\*1 Valid when the MODE is set to DUAL.

\*2 Refer to "About effects when a note value is selected as a setting" (p. 37)".

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#### CLASSIC-VIBE

Although this resembles a phaser effect, it also provides a unique undulation that you can't get with a regular phaser.

Parameter	Value	Explanation
RATE *1	0–100, BPM	Adjusts the rate of the effect.
DEPTH	0–100	Adjusts the depth of the effect.
EFFECT LEVEL	0-100	Adjusts the volume.
BPM	40–250	Adjusts the BPM value for each patch.

\*1 Refer to "About effects when a note value is selected as a setting" (p. 37)".

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#### COMPRESSOR

This is an effect that produces a long sustain by evening out the volume level of the input signal.

Parameter	Value	Explanation
	BOSS COMP	This models a BOSS CS-3.
	Hi-BAND	A compressor that adds an even stronger effect in the high end.
	LIGHT	A compressor with a light effect.
	D-COMP	This models a MXR DynaComp.
ТҮРЕ	ORANGE	This is modeled on the sound of the Dan Armstrong ORANGE SQUEEZER.
	FAT	When applied heavily, this compressor effect provides a fat tone with a boosted midrange.
	MILD	When applied heavily, this compressor effect produces a sweet tone with the high end cut.
SUSTAIN	0–100	Adjusts the range (time) over which low-level signals are boosted. Larger values will result in longer sustain.
ATTACK	0–100	Adjusts the strength of the attack when picking.
EFFECT LEVEL	0–100	Adjusts the volume.
TONE	-50-+50	Adjusts the tone.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

#### DEFRETTER

This simulates a fretless guitar.

Parameter	Value	Explanation
SENS	0–100	This controls the input sensitivity of the defretter.
DEPTH	0–100	This controls the volume of the harmonics.
TONE	-50-+50	Adjusts the amount of blurring between the notes.
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
АТТАСК	0–100	Adjusts the attack of the picking sound.
RESONANCE	0–100	Adds a characteristically resonant quality to the sound.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

### **DEFRETTER BASS**

This simulates a fretless bass.

Parameter	Value	Explanation
SENS	0–100	This controls the input sensitivity of the defretter.
ATTACK	0–100	Adjusts the attack of the picking sound.
TONE	-50-+50	Adjusts the amount of blurring between the notes.
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

#### DELAY

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Adds delayed sound to the direct sound, giving more body to the sound or creating special effects.

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Parameter	Value	Explanation
	Selects the dela	y type "TYPE" (p. 21).
ТҮРЕ	* The stereo ef	fect is canceled if a mono effect or AMP onnected after a stereo delay effect.
TIME *1 *12	4 2000	
D1 TIME D2 TIME *2 *12	1 ms-2000 ms, ВРМ Э-ыы	Adjusts the delay time.
FEE dBACK *3		This sets the amount of delay sound returned to the input. A higher value
D1 FEE dBACK D2 FEE dBACK *2	0–100	will increase the number of the delay repeats.
EFFECT LEVEL *4	_	
D1 EFFECT LEVEL D2 EFFECT LEVEL *2	0–120	Adjusts the volume of the delay sound.
HIGH CUT *3		This sets the frequency at which the
D1 HIGH CUT D2 HIGH CUT *2	20.0 Hz–16.0 kHz, FLAT	high cut filter begins to take effect. When FLAT is selected, the high cut filter will have no effect.
TAP TIME *6	0–100%	Adjusts the delay time of the right channel delay. This setting adjusts the R channel delay time relative to the L channel delay time (considered as 100%).
MOD RATE *7	0–100	Adjusts the modulation rate of the delay sound.
MOD DEPTH *7	0–100	Adjusts the modulation depth of the delay sound.
TRIGGER *8	OFF, ON	If this is ON, the WARP effect is applied.
MODE	RISE→FALL	Rotation stops when you switch TRIGGER from ON to OFF.
*9	RISE→FADE	When you switch TRIGGER from ON to OFF, fade-out occurs while continuing the rotation.
TRIGGER *9	OFF, ON	The TWIST effect is applied when you turn this ON.
RISE TIME *9	0–100	This parameter adjusts the amount of time it is to take for the effect to transition to the maximum.
FALL TIME *9 *10	0–100	This parameter adjusts the amount of time it is to take for the effect to transition to the original.
FADE TIME *9 *11	0–100	Adjusts the fade-out time.
DIRECT MIX *5	0–100	Adjusts the volume of the direct sound.
CARRY OVER	OFF, ON	Specifies whether the effect sound remains when you turn off the effect, or does not remain.
BPM	40-250	Adjusts the BPM value for each patch.

- \*1 Valid when the TYPE is set to other than DUAL-S, DUAL-P, DUAL L/R, or TWIST.
- \*2 Valid when the TYPE is set to DUAL-S, DUAL-P, or DUAL L/R.
- \*3 Valid when the TYPE is set to other than DUAL-S, DUAL-P, DUAL L/R, WARP or TWIST.
- \*4 Valid when the TYPE is set to other than DUAL-S, DUAL-P, or DUAL L/R.
- $^{*5}$  Valid when the TYPE is set to other than WARP or TWIST.
- \*6 Valid when the TYPE is set to PAN.
- \*7 Valid when the TYPE is set to MOD.
- \*8 Valid when the TYPE is set to WARP.
- \*9 Valid when the TYPE is set to TWIST.
- \*10 Valid when the MODE is set to RISE→FALL.
- \*11 Valid when the MODE is set to RISE  $\rightarrow$  FADE.
- \*12 Refer to "About effects when a note value is selected as a setting" (p. 37)".

#### TYPE

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Value	Explanation	
STEREO1	The direct sound is output from the left channel, and the effect sound is output from the right channel.	
STEREO2	This is a stereo-in/out delay.	
PAN	This delay is specifically for stereo output. This allows you to obtain the tap delay effect that divides the delay time, then deliver them to L and R channels. TAP TIME OUTPUT R TIME OUTPUT L FEEDBACK	
DUAL-S	This is a delay comprising two different delays connected in series.	
DUAL-P	This is a delay comprising two delays connected in parallel.	
DUAL-L/R	This delay lets you specify the L and R channels independently. Delay 1 goes to the left channel, Delay 2 to the right.	
REVERSE	This produces an effect where the sound is played back in reverse.	
ANALOG	This gives a mild analog delay sound.	
ТАРЕ	This setting provides the characteristic wavering sound of the tape echo.	
MOD	A delay with a pleasant amount of modulation added.	
WARP	Produces a dream-like sound.	
	Produces an aggressive sense of rotation.	
TWIST	Using this in conjunction with distortion will produce an even wilder sense of rotation.	

#### FLANGER/FLANGER BASS

The flanging effect gives a twisting, jet-airplane-like character to the sound.

Parameter	Value	Explanation
RATE *1	0–100, BPM	This sets the rate of the flanging effect.
DEPTH	0–100	Determines the depth of the flanging effect.
RESONANCE	0–100	Determines the amount of resonance (fee dBack). Increasing the value will emphasize the effect, creating a more unusual sound.
MANUAL	0–100	Adjusts the center frequency at which to apply the effect.
SEPARATION	0–100	Adjusts the diffusion. The diffusion increases as the value increases.
LOW CUT	FLAT, 20.0 Hz–16.0 kHz	This sets the frequency at which the low cut filter begins to take effect. When FLAT is selected, the low cut filter will have no effect.
HIGH CUT	20.0 Hz–16.0 kHz, FLAT	This sets the frequency at which the high cut filter begins to take effect. When FLAT is selected, the high cut filter will have no effect.
EFFECT LEVEL	0–100	Adjusts the volume of the flanger.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
BPM	40–250	Adjusts the BPM value for each patch.

\*1 Refer to "About effects when a note value is selected as a setting" (p. 37)".

#### FOOT VOLUME

This is a volume control effect.

Typically, you will operate this using an expression pedal connected to the CTL3,4/EXP1 jack or the CTL5,6/EXP2 jack.

Parameter	Value	Explanation
VOLUME MIN	0–100	Sets the volume when the heel of the EXP Pedal is depressed.
VOLUME MAX	0–100	Selects the volume when the toe of the EXP Pedal is depressed.
VOLUME CURVE	SLOW1, SLOW2, NORMAL, FAST	You can select how the actual volume changes relative to the amount the pedal is pressed. Volume <b>FAST</b> <b>NOMME</b> <b>SOM</b> <b>SOM</b> <b>SOM</b> <b>SOM</b> <b>SOM</b>
PEDAL POSITION	0–100	Adjusts the volume.

#### **GRAPHIC EQ**

You can adjust the tone character in seven bands.

Parameter	Value	Explanation
LEVEL	-20-+20 dB	Adjusts the overall volume level of the equalizer.
100 Hz		
200 Hz		
400 Hz		
800 Hz	-20-+20 dB	Adjust the volume of each frequency band.
1.6 kHz		
3.2 kHz		
6.4 kHz		

#### Parameter Value Explanation HR1:PRE-DELAY Adjusts the time from when the direct sound is heard until the \*2 0-300 ms, BPM harmonist sounds are heard. )-101 HR2:PRE-DELAY Normally you can leave this set \*1 \*2 at 0 ms. Adjusts the fee dBack amount of HR1:FEE dBACK 0-100 the harmonist sound. Adjusts the volume of the direct **DIRECT MIX** 0-100 sound. Adjusts the BPM value for each BPM 40-250 patch.

\*1 Valid when the VOICE is set to 2MONO or 2STEREO.

\*1 Refer to "About effects when a note value is selected as a setting" (p. 37)".

#### HARMONIST

Harmonist is an effect where the amount of shifting is adjusted according to an analysis of the guitar/bass input, allowing you to create harmony based on diatonic scales.

- \* Because of the need to analyze the pitch, chords (two or more sounds played simultaneously) cannot be played. Be sure to mute all the other strings and play only one note at a time.
- \* When you are to play the next string while a certain sound is still playing, mute the previous sound and then play the next one with a clear attack. If the unit cannot detect the attack, it may not sound correctly.
- \* The sensitivity may vary according to TONE knob and pickup type of the guitar/bass.

Parameter	Value	Explanation
	Selects the number of voices for the pitch shift sound.	
	1VOICE	One-voice pitch-shifted sound output in mono.
VOICE	2MONO	Two-voice pitch-shifted sound (HR1, HR2) output in mono.
	2STEREO	Two-voice pitch-shifted sound (HR1, HR2) output through left and right channels.
HR1:HARMONY		This determines the pitch of the sound added to the input sound, when you are making a harmony.
HR2:HARMONY *1	-2 oct–+2 oct, USER	It allows you to set it by up to 2 octaves higher or lower than the input sound. When the scale is set to USER, this parameter sets the user scale number to be used.
	C (Am)–B (G#m)	The key setting corresponds to the key of the song ( $^{\sharp}$ , $^{\flat}$ ) as follows.
KEY	Major C F Minor Am Dm Major C G	$B^{i} = E^{i} A^{i} D^{i}$ b = b = b = b = b = b = b = b = b = b =
	Minor Am Em	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
HR1:LEVEL HR2:LEVEL *1	0–100	Adjusts the volume of the harmony sound.

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\* Effective with USER selected for HARMONY parameter.

Parameter	Value
С	<b>▼</b> C- <b>▼</b> C-C- <b>▲</b> C- <b>▲</b> C
D♭	$\mathbf{z}_{D^{\flat}} - \mathbf{z}_{D^{\flat}} - \mathbf{z}_{D^{\flat}} - \mathbf{z}_{D^{\flat}}$
D	▼D-▼D-D-▲D-★D
E⊧	$\mathbf{F}_{\mathbf{F}}^{\mathbf{F}} - \mathbf{F}_{\mathbf{F}}^{\mathbf{F}} - \mathbf{F}_{\mathbf{F}}^{\mathbf{F}} - \mathbf{F}_{\mathbf{F}}^{\mathbf{F}}$
E	<b>▼</b> E- <b>▼</b> E-E- <b>▲</b> E- <b>▲</b> E
F	<b>▼</b> F- <b>▼</b> F-F- <b>▲</b> F- <b>▲</b> F
F <sup>#</sup>	$\mathbf{F}^{\sharp} - \mathbf{F}^{\sharp} - \mathbf{F}^{\sharp} - \mathbf{F}^{\sharp} - \mathbf{F}^{\sharp} - \mathbf{F}^{\sharp}$
G	<b>❤</b> G- <b>♥</b> G-G- <b>▲</b> G- <b>★</b> G
A♭	$A^{\flat} - A^{\flat} - A^{\flat} - A^{\flat} - A^{\flat} - A^{\flat}$
Α	<b>★</b> A- <b>▼</b> A-A- <b>▲</b> A- <b>▲</b> A
B♭	$\mathbf{F}_{B^{\flat}} - \mathbf{F}_{B^{\flat}} - \mathbf{F}_{B^{\flat}} - \mathbf{F}_{B^{\flat}} - \mathbf{F}_{B^{\flat}}$
В	<b>▼</b> B- <b>▼</b> B- <b>▲</b> B- <b>▲</b> B

The minus (-) and plus (+) symbols indicate sounds above or below the specified original note.

Triangles next to the note names indicate octaves.

One downward-pointing triangle indicates a note one octave below the note displayed; two triangles indicates a two-octave drop.

One upward-pointing triangle indicates a note one octave above the note displayed; two triangles indicates a two-octave rise.

#### HUMANIZER

This can create human vowel-like sounds.

Parameter	Value	Explanation
	This sets the mode that switches the vowels.	
MODE	PICKING	It changes from VOWEL1 to VOWEL2 along with the picking. The time spent for the change is adjusted with the rate.
	AUTO	By adjusting the rate and depth, two vowels (VOWEL1 and VOWEL2) can be switched automatically.
VOWEL1	a, e, i, o, u	Selects the first vowel.
VOWEL2	a, e, i, o, u	Selects the second vowel.
		Adjusts the sensitivity of the HUMANIZER.
SENS *1	0–100	When it is set to a lower value, no effect of the humanizer is obtained with weaker picking, while stronger picking produces the effect. When it is set to a higher value, the effect of the humanizer can be obtained whether the picking is weak or strong.
RATE *3	0–100, BPM ⊮	Adjusts the cycle for changing the two vowels.
DEPTH	0–100	Adjusts the depth of the effect.
MANUAL *2	0–100	This determines the point where the two vowels are switched. When it is set to 50, VOWEL1 and VOWEL2 are switched in the same length of time. When it is set to lower than 50, the time for VOWEL1 is shorter. When it is set to higher than 50, the time for VOWEL1 is longer.
EFFECT LEVEL	0–100	Adjusts the volume.
BPM	40-250	Adjusts the BPM value for each patch.

\*1 Setting available when MODE is set to PICKING.

\*2 Setting available when MODE is set to AUTO.

\*3 Refer to "About effects when a note value is selected as a setting" (p. 37)".

#### ISOLATOR

An effect that cuts the sound of the specified region.

Parameter	Value	Explanation
BAND	LOW, MIDDLE, HIGH	Selects the frequency region to cut.
RATE *1	0–100, ВРМ ыы–	Adjusts the rate of the modulation.
DEPTH	0–100	Adjusts the depth of the modulation.
BAND LEVEL	0–100	Specifies the amount to cut.
BPM	40–250	Adjusts the BPM value for each patch.

\*1 Refer to "About effects when a note value is selected as a setting" (p. 37)".

#### LIMITER

Attenuates loud input levels to prevent distortion.

Parameter	Value	Explanation
	Selects the limiter type.	
TYPE	BOSS LIMITER	Selects a stereo limiter.
11176	RACK 160D	Models a dBx 160X.
	VTG RACK U	Models an UREI 1178.
THRESHOLD	0–100	Adjust this as appropriate for the input signal. When the input signal level exceeds this threshold level, compression will be applied.
RATIO	1:1, 1.2:1, 1.4:1, 1.6:1, 1.8:1, 2:1, 2.3:1, 2.6:1, 3:1, 3.5:1, 4:1, 5:1, 6:1, 8:1, 10:1, 12:1, 20:1, INF:1	Selects the compression ratio used with signals in excess of the threshold level.
EFFECT LEVEL	0–100	Adjusts the volume.
ATTACK	0–100	Adjusts the strength of the attack when picking. Higher values result in sharper attack, creating a more clearly defined sound.
RELEASE	0-100	Adjusts the release time.

#### LO-FI

This deliberately degrades the audio quality to create a distinctive impression.

Parameter	Value	Explanation
BIT DEPTH	OFF, 15–1	Specifies the bit depth.
SAMPLE RATE	OFF, 1/2–1/32	Specifies the sample rate.
BALANCE	D100:E0- D0:E100	Adjusts the volume balance between the direct sound and the effect sound.

### OCTAVE/OCTAVE BASS

This adds a note one octave lower and a note two octaves lower, creating a richer sound.

Parameter	Value	Explanation
-20CT	0–100	Adjusts the volume of the sound two octaves below.
-10CT	0–100	Adjusts the volume of the sound one octave below.
DIRECT MIX	0-100	Adjusts the volume of the direct sound.

#### PAN

With the volume level of the left and right sides alternately changing, when playing sound in stereo, you can get an effect that makes the guitar sound appear to fly back and forth between the speakers.

Parameter	Value	Explanation
ТҮРЕ	AUTO	Varies the volume level on the left and right according to the settings for WAVE SHAPE, RATE, and DEPTH.
	MANUAL	Output uses the volume balance set with POSITION.
WAVE SHAPE	0.100	Adjusts changes in volume level.
*1	0–100	A higher value will steepen wave's shape.
RATE *1 *3	0–100, BPM	Adjusts the frequency (speed) of the change.
DEPTH *1	0–100	Adjusts the depth of the effect.
EFFECT LEVEL	0–100	Adjusts the volume.
POSITION *2	L50–CENTER– R50	Adjusts the volume balance between the left and right channels.
BPM	40–250	Adjusts the BPM value for each patch.

\*1 Setting available when TYPE is set to AUTO.

\*2 Setting available when TYPE is set to MANUAL.

\*3 Refer to "About effects when a note value is selected as a setting" (p. 37)".

#### **PARAMETRIC EQ**

#### You can adjust the tone character in four bands.

Parameter	Value	Explanation
LOW CUT	FLAT, 20.0 Hz–16.0 kHz	This sets the frequency at which the low cut filter begins to take effect. When FLAT is selected, the low cut filter will have no effect.
LOW GAIN	-20-+20 dB	Adjusts the tone for the low frequency range.
LOW-MID FREQ	20.0 Hz–16.0 kHz	Specifies the center of the frequency range that will be adjusted by the LOW-MID GAIN.
LOW-MID Q	0.5–16	Adjusts the width of the area affected by the EQ centered at the LOW-MID FREQ. Higher values will narrow the area.
LOW-MID GAIN	-20-+20 dB	Adjusts the low-middle frequency range tone.
HIGH-MID FREQ	20.0 Hz–16.0 kHz	Specifies the center of the frequency range that will be adjusted by the HIGH-MID GAIN.
HIGH-MID Q	0.5–16	Adjusts the width of the area affected by the EQ centered at the HIGH-MID FREQ. Higher values will narrow the area.
HIGH-MID GAIN	-20-+20 dB	Adjusts the high-middle frequency range tone.
HIGH GAIN	-20-+20 dB	Adjusts the tone for the high frequency range.
HIGH CUT	20.0 Hz–16.0 kHz, FLAT	This sets the frequency at which the high cut filter begins to take effect. When FLAT is selected, the high cut filter will have no effect.
LEVEL	-20-+20 dB	Adjusts the overall volume level of the equalizer.

#### PEDAL BEND

This lets you use the pedal to get a pitch bend effect.

Typically, you will operate this using an expression pedal connected to the CTL3,4/EXP1 jack or the CTL5,6/EXP2 jack.

\* Because of the need to analyze the pitch, chords (two or more sounds played simultaneously) cannot be played.

Parameter	Value	Explanation
РІТСН	-24-+24	This sets the pitch at the point where the EXP Pedal is all the way down.
PEDAL POSITION	0–100	Adjusts the pedal position for pedal bend. This parameter is used after it's been assigned to an expression pedal or similar controller.
EFFECT LEVEL	0–100	Adjusts the volume of the pitch bend sound.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

#### PHASER

By adding varied-phase portions to the direct sound, the phaser effect gives a whooshing, swirling character to the sound.

Parameter	Value	Explanation
ТҮРЕ	4STAGE, 8STAGE, 12STAGE, BiPHASE	Selects the number of stages that the phaser effect will use.
RATE *1	0–100, BPM ⊪ы−_₿	This sets the rate of the phaser effect.
DEPTH	0–100	Determines the depth of the phaser effect.
RESONANCE	0–100	Determines the amount of resonance (fee dBack). Increasing the value will emphasize the effect, creating a more unusual sound.
MANUAL	0–100	Adjusts the center frequency of the phaser effect.
STEP RATE *1	OFF, 0−100, BPM 1101	This sets the cycle of the step function that changes the rate and depth. When it is set to a higher value, the change will be finer. Set this to "Off" when not using the Step function.
EFFECT LEVEL	0–100	Adjusts the volume of the phaser.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
BPM	40–250	Adjusts the BPM value for each patch.

\*1 Refer to "About effects when a note value is selected as a setting" (p. 37)".

#### **PITCH SHIFTER**

This effect changes the pitch of the original sound (up or down) within a range of two octaves.

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Parameter	Value	Explanation
	Selects the num	hber of voices for the pitch shift sound.
	1VOICE	One-voice pitch-shifted sound output in mono.
VOICE	2MONO	Two-voice pitch-shifted sound (PS1, PS2) output in mono.
	2STEREO	Two-voice pitch-shifted sound (PS1, PS2) output through left and right channels.
PS1:PITCH		Adjusts the amount of pitch shift
PS2:PITCH *1	-24-+24	(the amount of interval) in semitone steps.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
	Selection for the	e pitch shifter mode.
PS1:MODE	FAST, MEDIUM, SLOW	The response is slower in the order of FAST, MEDIUM and SLOW, but the modulation is lessened in the same order.
PS2:MODE *1	MONO	MONO is used for inputting single notes. You may be unable to produce the intended effect when playing chords (two or more notes played simultaneously).
PS1:FINE		Make fine adjustments to the interval. The amount of the change
PS2:FINE *1	-50-+50	in the FINE 100 is equivalent to that of the PITCH 1.
PS1:PRE-DELAY *2	0 ms−300 ms, BPM ♪–տ	Adjusts the time from when the direct sound is heard until the pitch
PS2:PRE-DELAY *1 *2	BPM P-IN	shifted sounds are heard. Normally you can leave this set at 0 ms.
PS1:LEVEL		
PS2:LEVEL *1	0–100	Adjusts the volume of the pitch shifter.
PS1:FEE dBACK	0–100	Adjusts the fee dBack amount of the pitch shift sound.
BPM	40–250	Adjusts the BPM value for each patch.

\*1 Valid when the VOICE is set to 2MONO or 2STEREO.

\*2 Refer to "About effects when a note value is selected as a setting" (p. 37)".

#### REVERB

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This effect adds reverberation to the sound.

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Parameter	Value	Explanation
		e reverb type. Various different space are offered.
	AMBIENCE	Simulates an ambience mic (off-mic, placed at a distance from the sound source) used in recording and other applications. Rather than emphasizing the reverberation, this reverb is used to produce a sense of openness and depth.
	ROOM	Simulates the reverberation in a small room. Provides warm reverberations.
ТҮРЕ	HALL1	Simulates the reverberation in a concert hall. Provides clear and spacious reverberations.
	HALL2	Simulates the reverberation in a concert hall. Provides mild reverberations.
	PLATE	Simulates plate reverberation (a reverb unit that uses the vibration of a metallic plate). Provides a metallic sound with a distinct upper range.
	SPRING	This simulates the sound of a guitar amp's built-in spring reverb.
	MOD	This reverb adds the wavering sound found in hall reverb to provide an extremely pleasant reverb sound.
TIME	0.1 s-10.0 s	Adjusts the length (time) of reverberation.
PRE-DELAY	0 ms–500 ms	Adjusts the time until the reverb sound appears.
EFFECT LEVEL	0–100	Adjusts the volume of the reverb sound.
LOW CUT	FLAT, 20.0 Hz–16.0 kHz	This sets the frequency at which the low cut filter begins to take effect. When FLAT is selected, the low cut filter will have no effect.
HIGH CUT	20.0 Hz–16.0 kHz, FLAT	This sets the frequency at which the high cut filter begins to take effect. When FLAT is selected, the high cut filter will have no effect.
DENSITY	1–10	Adjusts the density of the reverb sound.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
CARRY OVER	OFF, ON	Specifies whether the effect sound remains when you turn off the effect, or does not remain.
SPRING SENS *1	0–100	Adjusts the sensitivity of the spring effect. When the value is set higher, the effect is obtained even with a weak picking.

\*1 Valid when the TYPE is set to SPRING.

#### **RING MOD**

This creates a bell-like sound by ring-modulating the guitar/bass sound with the signal from the internal oscillator. The sound can be unmusical and lack distinctive pitches.

Parameter	Value	Explanation
INTELLIGENT	OFF, ON	If this is ON, the oscillator frequency changes according to the pitch of the input sound, producing a pitched sound. In this case, the expected effect does not occur if the pitch of the guitar/bass sound is not detected correctly. We reco mmend that you use this with single-note playing.
FREQUENCY	0–100	Adjusts the frequency of the internal oscillator.
FREQ MOD RATE *1	0–100, BPM	Adjusts the rate at which the internal oscillator is modulated.
FREQ MOD DEPTH	0–100	Adjusts the depth to which the internal oscillator is modulated.
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
BPM	40-250	Adjusts the BPM value for each patch.

\*1 Refer to "About effects when a note value is selected as a setting" (p. 37)".

#### ROTARY

This produces an effect like the sound of a rotary speaker.

Parameter	Value	Explanation
SPEED SELECT	SLOW, FAST	This parameter changes the simulated speaker's rotating speed (SLOW or FAST).
RATE SLOW *1	0–100, BPM	This parameter adjusts the rotation speed when SPEED SELECT is set to "SLOW".
RATE FAST *1	0–100, BPM	This parameter adjusts the rotation speed when SPEED SELECT is set to "FAST".
DEPTH	0–100	Adjusts the amount of depth in the rotary effect.
<b>RISE TIME</b>	0–100	This parameter adjusts the time it takes for the rotation SPEED SELECT to change when switched from "SLOW" to "FAST".
FALL TIME	0–100	This parameter adjusts the time it takes for the rotation SPEED SELECT to change when switched from "FAST" to "SLOW".
EFFECT LEVEL	0–100	Adjusts the volume.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
BPM	40–250	Adjusts the BPM value for each patch.

\*1 Refer to "About effects when a note value is selected as a setting" (p. 37)".

#### SITAR SIM

This simulates the sound of the sitar.

Parameter	Value	Explanation
SENS	0–100	Adjusts the sensitivity of the sitar. When it is set to a lower value, no effect of the sitar is obtained with weaker picking, while stronger picking produces the effect. When it is set to a higher value, the effect of the sitar can be obtained whether the picking is weak or strong.
DEPTH	0–100	This adjusts the amount of effect applied.
TONE	-50-+50	Adjusts the tone character. The high end is boosted as the value increases.
EFFECT LEVEL	0–100	Adjust the volume of the sitar sound.
RESONANCE	0–100	This adjusts the undulation of the resonance.
BUZZ	0–100	Adjusts the amount of characteristic buzz produced by the "buzz bridge" when the strings make contact with it.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

#### SLICER

This consecutively interrupts the sound to create the impression that a rhythm backing phrase is being played.

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Parameter	Value	Explanation
PATTERN	P1-P20	Select the slice pattern (rhythm) that will be used to cut the sound.
RATE *1	0–100, BPM	Adjust the rate at which the sound will be cut.
TRIGGER	OFF, ON	When you switch this from OFF to ON, the slice pattern (rhythm) returns to its beginning.
		* Patches are written with the TRIGGER parameter set to Off.
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
ATTACK	0–100	Adjusts the volume of the attacks for the slice pattern (rhythm).
DUTY	1–99	Adjusts the duration of the sound for the slice pattern (rhythm).
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
BPM	40–250	Adjusts the BPM value for each patch.

\*1 Refer to "About effects when a note value is selected as a setting" (p. 37)".

#### SLOW GEAR/SLOW GEAR BASS

This produces a volume-swell effect ("violin-like" sound).

Parameter	Value	Explanation
SENS	0–100	Adjusts the sensitivity of the slow gear. When it is set to a lower value, the effect of the slow gear can be obtained only with a stronger picking, while no effect is obtained with a weaker picking. When the value is set higher, the effect is obtained even with a weak picking.
<b>RISE TIME</b>	0–100	Adjusts the time needed for the volume to reach its maximum from the moment you begin picking.
LEVEL	0-100	Adjusts the volume of the effect sound.

#### SOUND HOLD

You can have sound played on the guitar/bass be held continuously. This effect allows you to perform the melody in the upper registers while holding a note in the lower registers.

\* This function will not work properly when two or more notes are played simultaneously.

Parameter	Value	Explanation
		Switches the hold sound on and off. Normally, this is controlled with the CTL pedals.
TRIGGER	OFF, ON	• It is assumed that this parameter will be assigned to the footswitch.
		• Patches are written with the TRIGGER parameter set to Off.
<b>RISE TIME</b>	0–100	Adjusts how rapidly the Sound Hold sound is produced.
EFFECT LEVEL	0–120	Adjusts the volume of the hold sound.

#### TOUCH WAH/TOUCH WAH BASS

You can produce a wah effect with the filter changing in response to the guitar/bass level.

Parameter	Value	Explanation
	Selects the wah	mode.
	LPF	Low pass filter. Passes only the low- frequency region.
FILTER MODE	BPF	Band pass filter. Passes only the specified frequency region.
	HPF	High pass filter. Passes only the high- frequency region.
	Selects the direction in which the filter will change in response to the input.	
POLARITY	DOWN	The frequency of the filter will fall.
	UP	The frequency of the filter will rise.
SENS	0-100	Specifies the sensitivity with which the filter moves in the direction specified by the POLARITY setting.
	0-100	Higher values will result in a stronger response. With a setting of 0, the strength of picking will have no effect.
FREQUENCY	0–100	Adjusts the center frequency of the Wah effect.

Parameter	Value	Explanation
RESONANCE		Adjusts the amount of wah effect applied in the range near the reference frequency.
	0–100	Higher values will produce a stronger tone which emphasizes the wah effect more. With a value of 50, a standard wah sound will be produced.
DECAY	0–100	Adjusts the rate at which the filter is moved.
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

#### **TREMOLO**

Tremolo is an effect that creates a cyclic change in volume.

Parameter	Value	Explanation
WAVE SHAPE	0–100	Adjusts changes in volume level. A higher value will steepen wave's shape.
RATE	0–100, BPM	Adjusts the frequency (speed) of the
*1	IIOI - J	change.
DEPTH	0–100	Adjusts the depth of the effect.
EFFECT LEVEL	0–100	Adjusts the volume.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
BPM	40-250	Adjusts the BPM value for each patch.

\*1 Refer to "About effects when a note value is selected as a setting" (p. 37)".

#### **VIBRATO**

This effect creates vibrato by slightly modulating the pitch.

Parameter	Value	Explanation
RATE *1	0–100, BPM	Adjusts the rate of the vibrato.
DEPTH	0–100	Adjusts the depth of the vibrato.
TRIGGER	OFF, ON	This selects on/off of the vibrato.
RISETIME	0–100	This sets the time passing from the moment the Trigger is turned on until the set vibrato is obtained.
EFFECT LEVEL	0–100	Adjusts the volume.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
BPM	40–250	Adjusts the BPM value for each patch.

\*1 Refer to "About effects when a note value is selected as a setting" (p. 37)".

#### WAH

You can control the wah effect in real time by the expression pedal.

Parameter	Value	Explanation
	Selects the type	e of wah.
	CRY WAH	This models the sound of the CRY BABY wah pedal popular in the '70s.
	VO WAH	Models the VOX V846.
	FAT WAH	This is a wah sound featuring a bold tone.
	LIGHT WAH	This wah has a refined sound with no unusual characteristics.
ТҮРЕ	7STRING WAH	This expanded wah features a variable range compatible with seven-string and baritone guitars.
	RESO WAH	This completely original effect offers enhancements on the characteristic resonances produced by analog synth filters.
	BASS WAH	This wah has been specially adapted for use in the bass registers. Inclusion of the low-frequency range in the wah sound produces a robust wah effect, with no dilution of the sound.
		Adjusts the position of the wah pedal.
PEDAL POSITION	0–100	<ul> <li>* This parameter is used after it's been assigned to an expression pedal or similar controller.</li> </ul>
PEDAL MIN	0–100	Selects the tone produced when the heel of the EXP Pedal is depressed.
PEDAL MAX	0–100	Selects the tone produced when the toe of the EXP Pedal is depressed.
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

# AMP 1/AMP2 (AMP Modeling)

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Simulates the response of the preamp, the size of the speakers, and the type of cabinet.

Devenenter	Value	Fundamentian
Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
ТҮРЕ		P type "AMP TYPE" (p. 29).
GAIN	0–120	Adjusts the distortion of the amp.
SAG	-10-+10	Adjusts the amount by which compression changes in response to the power amp.
RESONANCE	-10-+10	Adjusts the amount by which dynamics is affected by the interaction between the power amp and the speaker transformer.
LEVEL	0–100	Adjusts the volume of the entire preamp. * Be careful not to raise the LEVEL setting too high.
BASS	0–100	Adjusts the tone for the low frequency range.
MIDDLE	0–100	Adjusts the tone for the middle frequency range.
TREBLE	0–100	Adjusts the tone for the high frequency range.
PRESENCE	0–100	Adjusts the tone for the ultra high frequency range.
BRIGHT	OFF, ON	<ul><li>Turns the bright setting on/off.</li><li>* BRIGHT is valid for some of the amps in TYPE.</li></ul>
GAIN SW	LOW, MIDDLE, HIGH	Provides for selection from three levels of distortion: LOW, MIDDLE, and HIGH. Distortion will successively increase for settings of LOW, MIDDLE and HIGH. * The sound of each Type is created
		on the basis that the Gain is set to MIDDLE.
SOLO SW	OFF, ON	Switches the tone to one suitable for solos.
SOLO LEVEL	0–100	Adjusts the volume level when the SOLO SW is ON.
SP TYPE	This setting sele (p. 29).	ects the simulated speaker type "SP TYPE"
MIC TYPE *1	This setting sele (p. 29).	ects the simulated mic type "MIC TYPE"
MIC DISTANCE *1	SHORT, MEDIUM, LONG	Simulates the distance between the mic and speaker. The distance from the speakers is farther in the order of SHORT <medium<long.< th=""></medium<long.<>
	This simulates t	he mic position.
MIC POSITION *1	CENTER	Simulates the condition that the mic is set in the middle of the speaker cone.
	1 cm–10 cm	Simulates the condition that the mic is moved away from the center of the speaker cone.
MIC LEVEL *1	0–100	Adjusts the volume of the mic.
DIRECT MIX *1	0–100	Adjusts the volume of the direct sound.

\*1 Disabled when SP TYPE (p. 29) is set to "OFF" or "USER1-16".

### **AMP TYPE**

Value	Explanation	
TRANSPARENT	An amp with a broad frequency range and an extremely flat response. Good for acoustic guitar.	
NATURAL	An unembellished, clean sound that minimizes the amp's idiosyncrasies, such as its trebly character and boomy low end.	
BOUTIQUE	Crunch sound that allows the nuances of your picking to be expressed even more faithfully than on conventional combo amps.	
SUPREME	Great-feeling crunch sound that responds to the nuances of your picking while taking advantage of the distinctive character of a 4x12" speaker cabinet.	
MAXIMUM	An amp that delivers the distinctively great response and tone of a vintage Marshall, while making it even higher gain.	
JUGGERNAUT	A large stack sound that has been tweaked extensively in the pursuit of the ultimate metal sound.	
X-CRUNCH	Crunch sound that uses MDP to deliver a crisp tone from all strings.	
X-HI GAIN	High-gain sound that uses MDP to obtain high-gain sound with a wide range and a great-feeling sense of separation.	
X-MODDED	Core sound that uses MDP to preserve the definition of the sound even with extreme gain.	
X-ULTRA	A high-gain sound that uses MDP for a dense midrange tone with dynamics.	
X-OPTIMA	A high-gain sound that uses MDP to emphasize sonic balance for phrases and ensemble playing.	
X-TITAN	A tight high-gain sound with an edge, which uses MDP.	
JC-120	This models the sound of the Roland JC-120.	
TWIN COMBO	This models a Fender Twin Reverb.	
DELUXE COMBO	This models a Fender Deluxe Reverb.	
TWEED COMBO	This models a Fender Bassman 4x10" Combo.	
DIAMOND AMP	This models a VOX AC30.	
BRIT STACK	This models a Marshall 1959.	
RECTI STACK	Models the sound of the Channel 2 MODERN Mode on the MESA/Boogie DUAL Rectifier.	
MATCH COMBO	This models the sound input to left input on a Matchless D/C-30.	
BG COMBO	This models the sound of the MESA/Boogie combo amp.	
ORNG STACK	This models the dirty channel of an ORANGE ROCKERVERB.	
BGNR UB METAL	This models the sound that models the high-gain channel of a Bogner Uberschall.	
NATURAL BASS	Uncolored clean sound for bass.	
X-DRIVE BASS	High-gain sound for bass, using MDP to provide wide range and a good-sounding sense of separation.	
CONCERT	This models the Ampeg SVT.	
STUDIO BASS	This models the Markbass Little Mark III.	
SILVER TUBE	This models a Fender Bassman 100.	
CLASSIC BLUE	This models the Acoustic 360.	
SOLID STACK	This models the Gallien-Krueger 800RB.	
FAT TUBE	This models the Orange AD200B MKIII.	
DARK DRV	This models the Darkglass Electronics MICROTUBES B7K.	

### SP TYPE

Value	Explanation	
OFF	This turns off the speaker simulator.	
ORIGINAL	This is the built-in speaker of the amp you selected with AMP TYPE.	
	→ "AMP TYPE" (p. 29)	
1x8″	This is a compact open-back speaker cabinet with one 8-inch speaker.	
1x10″	This is a compact open-back speaker cabinet with one 10-inch speaker.	
1x12″	This is a compact open-back speaker cabinet with one 12-inch speaker.	
2x12″	This is a general open-back speaker cabinet with two 12-inch speakers.	
4x10″	This is a large closed-back speaker cabinet with four 10- inch speakers.	
4x12″	This is a large closed-back speaker cabinet with four 12-inch speakers.	
8x12″	This is a stack of two cabinets each with four 12-inch speakers.	
B1x15″	This is a compact open-back speaker cabinet for the bass guitar with one 15-inch speaker.	
B1x18″	This is a compact open-back speaker cabinet for the bass guitar with one 18-inch speaker.	
B2x15″	This is a general open-back speaker cabinet for the bass guitar with two 15-inch speakers.	
B4x10″	This is a large closed-back speaker cabinet for the bass guitar with four 10-inch speakers.	
B8x10″	This is a stack of two cabinets for bass, each with four 10-inch speakers.	
USER 1–16	You can create an original SP TYPE by using a dedicated to load IR (Impulse Response) data into this unit.	
	Download the dedicated tool from the BOSS website.	
	https://www.boss.info/support/	

### **MICTYPE**

Value	Explanation
DYN57	This is the sound of the SHURE SM57. General dynamic mic used for instruments and vocals.
DYN421	This is the sound of the SENNHEISER MD-421. Dynamic mic with extended low end.
CND451	This is the sound of the AKG C451B. Small condenser mic for use with instruments.
CND87	This is the sound of the NEUMANN U87. Condenser mic with flat response.
RBN121	This models the ROYER R-121. Ribbon mic that offers a warm, natural sound.
BLEND A	This models a Shure SM57 and ROYER R-121 mixed together. The sound of the SM57 is proportionally louder
BLEND B	This models a Shure SM57 and ROYER R-121 mixed together. The SM57 and R-121 are mixed at the same volumes.
BLEND C	This models a Shure SM57 and ROYER R-121 mixed together. The sound of the R-121 is proportionally louder.
FLAT	Simulates a mic with perfectly flat response. Produces a sonic image close to that of listening to the sound directly from the speakers (on site).

### CHORUS

In this effect, a slightly detuned sound is added to the original sound to add depth and breadth.

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
	Selection for the	e chorus mode.
	MONO	This chorus effect outputs the same sound from both L channel and R channel.
MODE	STEREO1	This stereo chorus uses spatial synthesis, with the direct sound output in the L channel and the effect sound output in the R channel.
	STEREO2	This is a stereo chorus effect that adds different chorus sounds to L channel and R channel.
	DUAL	This lets you apply chorus independently to the L and R channels.
RATE		
*2 RATE 1 RATE 2 *1 *2	0–100, BPM ⊫KNI−_	Adjusts the rate of the chorus effect.
DEPTH		Adjusts the depth of the chorus effect.
DEPTH 1 DEPTH 2 *1	0–100	* To use it for doubling effect, set the value to 0.
PRE-DELAY	_	Adjusts the time needed for the effect sound to be output after the direct sound has been output. By setting a
PRE-DELAY 1 PRE-DELAY 2 *1	0.0 ms-40.0 ms	longer pre delay time, you can obtain an effect that sounds like more than one sound is being played at the same time (doubling effect).
EFFECT LEVEL		
EFFECT LEVEL 1 EFFECT LEVEL 2 *1	0–100	Adjusts the volume of the effect sound.
WAVEFORM	TRI	Produces a typical chorus effect.
WAVEFORM 1 WAVEFORM 2 *1	SINE	Produces a deeper sense of modulation.
LOW CUT		
LOW CUT 1 LOW CUT 2 *1	FLAT, 20.0 Hz–16.0 kHz	This sets the frequency at which the low cut filter begins to take effect. When FLAT is selected, the low cut filter will have no effect.
HIGH CUT HIGH CUT 1 HIGH CUT 2 *1	20.0 Hz–16.0 kHz, FLAT	This sets the frequency at which the high cut filter begins to take effect. When FLAT is selected, the high cut filter will have no effect.
DIRECT MIX	0–100	Adjusts the volume of the direct sound. Setting this to 0 cuts the direct sound.

Parameter	Value	Explanation
OUTPUT MODE	MONO	This setting is appropriate for mono output.
*1	STEREO	Produces a rich spaciousness when stereo output is used.
BPM	40–250	Adjusts the BPM value for each patch.

\*1 Valid when the MODE is set to DUAL.

\*2 Refer to "About effects when a note value is selected as a setting" (p. 37)".

### COMPRESSOR

This is an effect that produces a long sustain by evening out the volume level of the input signal.

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
ТҮРЕ	Selects the com	pressor "TYPE" (p. 31).
SUSTAIN	0–100	Adjusts the range (time) over which low-level signals are boosted. Larger values will result in longer sustain.
ATTACK	0–100	Adjusts the strength of the attack when picking.
EFFECT LEVEL	0–100	Adjusts the volume.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
TONE	-50-+50	Adjusts the tone character.

#### TYPE

#### Value Explanation This models a BOSS CS-3. BOSS COMP A compressor that adds an even stronger effect in the Hi-BAND high end. LIGHT A compressor with a light effect. D-COMP This models a MXR DynaComp. This is modeled on the sound of the Dan Armstrong ORANGE ORANGE SQUEEZER. When applied heavily, this compressor effect provides a FAT fat tone with a boosted midrange. When applied heavily, this compressor effect produces a MILD sweet tone with the high end cut.

### DISTORTION

This effect distorts the sound to create long sustain.

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
ТҮРЕ	Selects the DIST	FORTION "TYPE" (p. 31).
DRIVE	0–120	Adjusts the depth of distortion.
TONE	-50-+50	Adjusts the tone.
LEVEL	0–100	Adjusts the volume of the effect sound.
воттом	-50-+50	Adjusts the tone for the low frequency range. Turning this to the left (counterclockwise) produces a sound with the low end cut; turning it to the right boosts the low end in the sound.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
SOLO SW	OFF, ON	Switches the tone to one suitable for solos.
SOLO LEVEL	0–100	Adjusts the volume level when the SOLO SW is ON.

#### TYPE

Value	Explanation		
MID (MID BOOST)	This is a booster with unique characteristics in the midrange. Making the connection before the AIRD PREAMP		
	produces sound suitable for solos.		
CLEAN (CLEAN BOOST)	This not only functions as a booster, but also produces a clean tone that has punch even when used alone.		
TREBLE (TREBLE BOOST)	This is a booster that has bright characteristics.		
CRUNCH	A lustrous crunch sound with an added element of amp distortion.		
NATURAL (NATURAL OD)	This is an overdrive sound that provides distortion with a natural feeling.		
WARM OD	This is a warm overdrive.		
FAT DS	A distortion sound with thick distortion.		
LEAD DS	Produces a distortion sound with both the smoothness of an overdrive along with a deep distortion.		
METAL DS	This is a distortion sound that is ideal for performances of heavy riffs.		
OCT FUZZ	A fuzz sound with rich harmonic content.		
A-DIST	This uses MDP technology to obtain ideal distortion in all ranges of the guitar, from low to high.		
X-OD	This is an overdrive that uses MDP to obtain the distortion that's most appropriate in each pitch range.		
X-DIST	This is a distortion that uses MDP to obtain the distortion that's most appropriate in each pitch range.		
	This is a crunch sound of the BOSS BD-2.		
BLUES OD	This produces distortion that faithfully reproduces the nuances of picking.		
OD-1	This models the sound of the BOSS OD-1.		
00-1	This produces sweet, mild distortion.		
SD-1	This models the sound of the BOSS SD-1.		
T-SCREAM	This models an Ibanez TS-808.		
TURBO OD	This is the high-gain overdrive sound of the BOSS OD-2.		
DIST	This gives a basic, traditional distortion sound.		
DS-1	This models the sound of the BOSS DS-1.		
CENTA OD	This models a KLON CENTAUR.		
RAT	This models a Proco RAT.		

#### Parameter list

Value	Explanation		
GUV DS	This models a Marshall GUV' NOR.		
DIST+	This models the sound of the MXR DISTORTION+.		
MTL ZONE	This models the sound of the BOSS MT-2.		
(METAL ZONE)	It produces a wide range of metal sounds, from old style to slash metal.		
	This models the sound of the BOSS HM-2.		
HM-2	It produces distinctive cranked-up distortion sound with compression.		
MTL CORE (METAL CORE)	This is the sound of the BOSS ML-2 which is ideal for high speed metal riffs.		
605 FUZZ	This models a FUZZFACE.		
605 FUZZ	It produces a fat fuzz sound.		
MUFF FUZZ)	This models an Electro-Harmonix Big Muff $\pi$ .		
BASS OD	Overdrive tuned especially for use with basses.		
BASS DS	Distortion tuned especially for use with basses.		
BASS MT	Wild, radical distortion sound.		
BASS FUZZ	Fuzz tuned especially for use with basses.		
HI BAND	With this effect, distortion is applied only to the high frequency sounds, and not to the sounds in the low frequency range.		
X-BASS	This effect uses MDP to provide ideal distortion in all pitch ranges of the bass, from low to high.		
BASS DRV	This models a TECH21 SANSAMP BASS DRIVER DI.		
BASS DI	This models a MXR Bass D.I.+.		

# EQ 1, EQ2

You can adjust the tone character in four bands.

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
LOW CUT	FLAT, 20.0 Hz–16.0 kHz	This sets the frequency at which the low cut filter begins to take effect. When FLAT is selected, the low cut filter will have no effect.
LOW GAIN	-20-+20 dB	Adjusts the tone for the low frequency range.
LOW-MID FREQ	20.0 Hz–16.0 kHz	Specifies the center of the frequency range that will be adjusted by the LOW- MID GAIN.
LOW-MID Q	0.5–16	Adjusts the width of the area affected by the EQ centered at the LOW-MID FREQ. Higher values will narrow the area.
LOW-MID GAIN	-20-+20 dB	Adjusts the low-middle frequency range tone.
HIGH-MID FREQ	20.0 Hz–16.0 kHz	Specifies the center of the frequency range that will be adjusted by the HIGH-MID GAIN.
HIGH-MID Q	0.5–16	Adjusts the width of the area affected by the EQ centered at the HIGH-MID FREQ. Higher values will narrow the area.
HIGH-MID GAIN	-20-+20 dB	Adjusts the high-middle frequency range tone.
HIGH GAIN	-20-+20 dB	Adjusts the tone for the high frequency range.
HIGH CUT	This sets the frequency at which 20.0 Hz–16.0 high cut filter begins to take effe kHz, FLAT When FLAT is selected, the high of filter will have no effect.	
LEVEL	-20-+20 dB	Adjusts the overall volume level of the equalizer.

# DELAY 1, DELAY 2

Adds delayed sound to the direct sound, giving more body to the sound or creating special effects.

Parameter	Value	Explanation	
ON/OFF	OFF, ON	Turns this effect on/off.	
	MONO	This is a simple mono delay.	
	STEREO1	The direct sound is output from the left channel, and the effect sound is output from the right channel.	
	STEREO2	This is a stereo-in/out delay.	
ТҮРЕ	PAN	This delay is specifically for stereo output. This allows you to obtain the tap delay effect that divides the delay time, then deliver them to L and R channels.	
		TAP TIME OUTPUT R TIME OUTPUT L FEEDBACK	
TIME *1	1 ms–2000 ms, BPM Adjusts the delay time.		
FEE dBACK	0–100 This sets the amount of delay sound returned to the input. A higher value will increase the number of the delay repeats.		
EFFECT LEVEL	0–120	Adjusts the volume of the delay sound.	
HIGH CUT	This sets the frequency at which the 20.0 Hz–16.0 high cut filter begins to take effect. kHz, FLAT When FLAT is selected, the high cut filter will have no effect.		
DIRECT MIX	0–100	Adjusts the volume of the direct sound.	
CARRY OVER	OFF, ON	Specifies whether the effect sound remains when you turn off the effect, or does not remain.	
BPM	40–250	Adjusts the BPM value for each patch.	
TAP TIME *2	0–100%	Adjusts the delay time of the right channel delay. This setting adjusts the R channel delay time relative to the L channel delay time (considered as 100%).	

\*1 Refer to "About effects when a note value is selected as a setting" (p. 37)".

\*2 Valid when the TYPE is set to PAN.

### REVERB

This effect adds reverberation to the sound.

Parameter	Value Explanation			
ON/OFF	OFF, ON	Turns this effect on/off.		
	This selects the reverb type. Various different simulations of space are offered.			
	AMBIENCE	Simulates an ambience mic (off-mic, placed at a distance from the sound source) used in recording and other applications. Rather than emphasizing the reverberation, this reverb is used to produce a sense of openness and depth.		
	ROOM	Simulates the reverberation in a small room. Provides warm reverberations.		
ТҮРЕ	HALL1	Simulates the reverberation in a concert hall. Provides clear and spacious reverberations.		
	HALL2	Simulates the reverberation in a concert hall. Provides mild reverberations.		
	PLATE	Simulates plate reverberation (a reverb unit that uses the vibration of a metallic plate). Provides a metallic sound with a distinct upper range.		
	SPRING	This simulates the sound of a guitar amp's built-in spring reverb.		
	MOD	This reverb adds the wavering sound found in hall reverb to provide an extremely pleasant reverb sound.		
TIME	0.1 s-10.0 s	Adjusts the length (time) of reverberation.		
PRE-DELAY	0 ms–500 ms	Adjusts the time until the reverb sound appears.		
EFFECT LEVEL	0–100	Adjusts the volume of the reverb sound.		
LOW CUT	FLAT, 20.0 Hz–16.0 kHz	This sets the frequency at which the low cut filter begins to take effect. When FLAT is selected, the low cut filter will have no effect.		
HIGH CUT	20.0 Hz–16.0 kHz, FLAT	This sets the frequency at which the high cut filter begins to take effect. When FLAT is selected, the high cut filter will have no effect.		
DENSITY	1–10	Adjusts the density of the reverb sound.		
DIRECT MIX	0–100	Adjusts the volume of the direct sound.		
CARRY OVER	OFF, ON	Specifies whether the effect sound remains when you turn off the effect, or does not remain.		
SPRING SENS *1	0–100	Adjusts the sensitivity of the spring effect. When the value is set higher, the effect is obtained even with a weak picking.		

\*1 Valid when the TYPE is set to SPRING.

### NS 1/NS2 (NOISE SUPPRESSOR)

This effect reduces the noise and hum picked up by guitar/bass pickups. Since it suppresses the noise in synchronization with the envelope of the guitar/bass sound (the way in which the guitar sound decays over time), it has very little effect on the guitar/bass sound, and does not harm the natural character of the sound.

Value	Explanation		
OFF, ON	Turns this effect on/off.		
0–100	Adjust this parameter as appropriate for the volume of the noise. If the noise level is high, a higher setting is appropriate. If the noise level is low, a lower setting is appropriate. Adjust this value until the decay of the guitar sound is as natural as possible.		
	<ul> <li>* High settings for the threshold parameter may result in there being no sound when you play with your guitar/bass volume turned down.</li> </ul>		
0–100	Adjusts the time from when the noise suppressor begins to function until the noise level reaches "0".		
level for the poi	e noise suppressor based on the volume nt specified in Detect.		
GK+NORMAL IN *1	Input volume from the GK IN jack and GUITAR INPUT jack		
GK INPUT *1	Input volume from the GK IN jack.		
NORMAL INPUT	Input volume from the GUITAR INPUT jack.		
NS INPUT	Noise suppressor input volume. * When connected as illustrated below, and you want to prevent a spatial- type effects sound (such as a delay sound) from being eradicated by the NS, you should set DETECT to "NS INPUT". NS ->		
	Spatial-type effect		
INST OUT	Specifies the output volume of the INST.		
FV1 OUT, FV2 OUT	Volume after passing through Foot Volume.		
	* If you want to use FV (Foot Volume) in place of the guitar/bass guitar's volume control, you need to set DETECT to "FV OUT".		
PATCH, 01–10	NOISE SUPPRESSOR settings can be saved/loaded as ten variations.		
	A saved VARIATION can be loaded into a different patch, which is convenient when you're creating sounds.		
	OFF, ON 0–100 0–100 This controls the level for the poil GK+NORMAL IN *1 GK INPUT *1 NORMAL INPUT NS INPUT INST OUT FV1 OUT, FV2 OUT		

# FOOT VOLUME 1, FOOT VOLUME 2

This is a volume control effect.

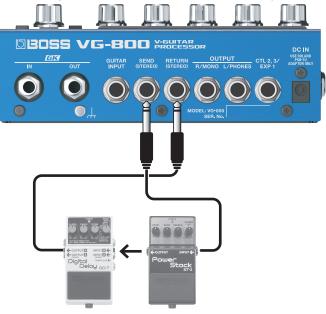
Normally, this is controlled with the expression pedal connected to the CTL 2, 3/EXP 1 jack or CTL 4, 5/EXP 2 jack.

Parameter	Value	Explanation	
VOLUME MIN	0–100	Sets the volume when the heel of the EXP Pedal is depressed.	
VOLUME MAX	0–100	Selects the volume when the toe of the EXP Pedal is depressed.	
VOLUME CURVE	SLOW1, SLOW2, NORMAL, FAST	You can select how the actual volume changes relative to the amount the pedal is pressed. Volume <b>FAST</b> <b>NORMAL</b> <b>BOW</b> <b>BOW</b> <b>BOW</b> <b>BOW</b> <b>BOW</b> <b>BOW</b> <b>BOW</b> <b>BOW</b> <b>BOW</b> <b>BOW</b> <b>BOW</b> <b>BOW</b>	
PEDAL POSITION	0–100	Adjusts the volume.	

\*1 Set the GK SETTING parameter SENS (p. 46) appropriately.

### SEND/RETURN

You can connect an external effects processor between the SEND jack and RETURN jack, and use it as one of the VG-800's effects processors.



The sound that is input to SEND/RETURN (S/R1, S/R2) within the effect chain will be output to the SEND jack. The sound that is input via the RETURN jack will be input to SEND/RETURN within the effect chain.

\* The SEND/RETURN jacks on this unit are stereo (TRS) jacks.

Parameter	Value	Explanation	
ON/OFF	OFF, ON	Turns on/off the SEND/RETURN.	
ST LINK	OFF, ON	When this is on, you can use the two sets of SEND and RETURN jacks (S/R1, S/ R2) to connect a stereo effect unit.	
MODE	Selects the signal flow "MODE" (p. 35).		
SEND LEVEL	0–200	-200 Adjusts the volume of the output to the external effects device.	
RETURN LEVEL *1	0–200	200 Adjusts the volume of the input from the external effects device.	
ADJUST *1	0–100	Adjusts the phase between the VG-800's internal processing and an external effect unit connected to the SEND/RETURN jacks.	
PHASE	NORMAL, INVERT	Specifies the phase of the signal that is output from the SEND jack.	

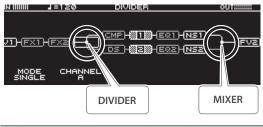
\*1 You can adjust this if the MODE parameter is set to NORMAL or DIRECT MIX.

#### MODE

Value	Explanation		
NORMAL	The input to SEND/RETURN within the effect chain will be output to the SEND jack, and the input from the RETURN jack will be output following SEND/RETURN. Use this setting if you want to connect an external effects processor in series within the VG-800's effect chain.		
	<b>6</b>		
DIRECT MIX	The input to SEND/RETURN within the effect chain will be output to the SEND jack, and the input from the RETURN jack and the input to SEND/RETURN (the direct sound) will be mixed and output following SEND/ RETURN. Use this when you want to mix the VG-800's effects sounds together with the external effects device applied to it.		
BRANCH OUT	The input to SEND/RETURN within the effect chain will be output to the SEND jack. The input from the RETURN jack will be ignored. For example, by placing SEND/RETURN in the VG-800's effect chain in front of reverb or delay, this allows you to use the SEND jack as a dry out.		

### DIVIDER

This lets you branch channel "A" and channel "B" within the effect chain.



Parameter	Value	alue Explanation	
MODE	SINGLE	Use only one channel, either "A" or "B".	
	DUAL	Use the two channels "A" and "B".	
		Selects the channel to use.	
CH SELECT	А, В	<ul> <li>Setting available when MODE is set to SINGLE.</li> </ul>	

### MIXER

This merges the signals that were branched using DIVIDER.

Parameter	Value	Explanation	
A/B BALANCE	A/B BALANCE 100:0–0:100 A/B BALANCE 100:0–0:100 A/B BALANCE 100:0–0:100 A/J and "B". * This is shown only if DIVID set to "DUAL".		
A:PAN	L50-R50	Adjusts the pan of channel "A".	
B:PAN	L50-R50	Adjusts the pan of channel "B".	

### BALANCER 1, BALANCER 2

This adjusts the volume balance and panning for each of the routes INST and NORMAL INPUT.

<u>N</u> 1=	120	INSTRE.GUITHR	001;;;
BALANCE	R 1	BALANCER 2	

Parameter	Value	Explanation
A/B BALANCE	100:0-0:100	Adjusts the volume balance of channels "A" and "B".
A:PAN	L50-R50	Adjusts the pan of channel "A".
B:PAN	L50-R50	Adjusts the pan of channel "B".

## MASTER

These settings are applied to the overall patch.

Parameter	Value	Explanation
MEMORY LEVEL	0–200	Adjusts the volume of the patch.
врм	40–250	Adjusts the BPM value for each memory. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute
	C (Am)–B (G#m)	This sets the key for the FX HARMONIST.
KEY	Major C F Minor Am Dm	B <sup>3</sup> E <sup>3</sup> A <sup>3</sup> D <sup>3</sup> <b>b b b b b b</b> Gm Cm Fm B <sup>3</sup> m
	Major <sub>C</sub> G MinorAmEm	D A E B F <sup>‡</sup> <b>#</b> <b>#</b> <b>#</b> <b>#</b> <b>#</b> <b>#</b> <b>#</b> <b>#</b>
BPM HOLD	OFF, ON	Specifies whether the tempo (BPM) changes or is maintained when you switch memories.
GK SET	SYSTEM, SET1- SET10	Selects which GK setting to use when playing the GK MEMORY. If you select SYSTEM, the GK setting selected by the system parameter GK SET is used.
gk audio Mode	SYSTEM, OFF, MIX, OUT, THRU	Selects the GK AUDIO signal flow. If you select SYSTEM, the setting selected by the system parameter GK AUDIO: AUDIO MODE is used. For details, refer to the system parameter "GK AUDIO" (p. 48).
GK MIX LEVEL	SYSTEM, 0-200	Adjusts the level of audio signal input to the GK IN jack on this unit. If you select SYSTEM, the setting selected by the system parameter GK AUDIO: MIX LEVEL is used.For details, refer to the system parameter "GK AUDIO" (p. 48).
GK OUT LEVEL	SYSTEM, 0-200	Adjusts the level of audio signal output from the GK OUT jack on this unit. If you select SYSTEM, the setting selected by the system parameter GK AUDIO: OUTPUT LEVEL is used. For details, refer to the system parameter "GK AUDIO" (p. 48).
OUTPUT SELECT	SYSTEM (Other values are same with the system parameter OUTPUT SELECT)	Specifies the device (amp) that's connected to the OUTPUT jacks. If you select SYSTEM, the setting selected by the system parameter OUTPUT SELECT is used. For details, refer to the system parameter "OUTPUT SELECT" (p. 47).

### MEMO

For details on the GK settings parameter, refer to "GK SETTING paremeters" (p. 45).

# About effects when a note value is selected as a setting

- \* When you specify a note value as the setting for a parameter (such as a RATE parameter in EFFECTS), this specifies the length (time) of one note. Since this time is calculated based on the "BPM" (tempo) of the MASTER block, you can easily design the sound to match the tempo of the song.
- \* If the note length (time) specified for a RATE or DELAY TIME parameter is longer than the allowable range of the setting, a time that is 1/2 or 1/4 of the specified time is assigned.

## NORMAL INPUT

These are the settings for the normal (conventional) guitar/bass signal that is input to the GUITAR INPUT jack.

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
LEVEL	0–200	Adjusts the volume of the normal guitar/bass.
CABLE SIM	OFF, 1m/3ft, 3m/10ft, 5m/16ft, 7m/23ft, 9m/30ft, 12m/40ft	The normal guitar/bass signals that are input via the serial GK connection are routed through an active-type buffer, which reduces degradation of the higher frequencies. For this reason, the difference between using a serial GK connection and a standard cable is more noticeable in the high frequency range. By setting this parameter to the length of the cable you usually use, you can correct for the difference in sound between the divided pickup and a typical guitar/bass. Set this to "OFF" when connecting a normal guitar/bass guitar to the GUITAR INPUT jack.
PHASE	NORMAL, INVERT	Specifies the phase of the normal pickup signal.

## **CONTROL ASSIGN parameters**

## **CONTROL FUNCTION**

You can control the parameters of the VG-800 by using the switches on the VG-800 as well as from an external device.

Use these settings to configure which controller controls which function.

### **FUNCTION**

## [▼] DOWN, [▲] UP, [CTL1]–[CTL5], [CUR NUM], [GK SW1], [GK SW2]

- \* [▼] DOWN, [▲] UP and CTL1 are enabled when FOOT SW MODE (p. 52) is set to "UP/DOWN".
- \* CUR NUM is enabled when FOOT SW MODE (p. 52) is set to "BANK/NUMBER".

Value	Explanation		
OFF	No assignment.		
MEMORY +1 *1	Switches to the next memory number.		
MEMORY -1 *1	Switches to the previous memory number.		
BANK +1 *2	Switches to the next bank number.		
BANK -1 *2	Switches to the previous banknumber.		
LEVEL +10 *1	Increases the memory volume level by 10 units.		
LEVEL +20 *1	Increases the memory volume level by 20 units.		
LEVEL -10 *1	Decreases the memory volume level by 10 units.		
LEVEL -20 *1	Decreases the memory volume level by 20 units.		
BPM TAP	Used for tap input of the MASTER BPM.		
DLY1 TAP	Use this for tap input of the DELAY 1.		
DLY2 TAP	Use this for tap input of the DELAY 2.		
FX1 DLY TAP	Use this for tap input of the FX1 DELAY.		
FX2 DLY TAP	Use this for tap input of the FX2 DELAY.		
FX3 DLY TAP	Use this for tap input of the FX3 DELAY.		
TUNER	Turns the TUNER on and off.		
FX BYPASS	Turns the FX BYPASS on and off.		
INST	Turns the INS on and off.		
INST NOR MIX	Turns the NORMAL MIX SW of the INST on and off.		
ALT TUNE	Turns the ALT TUNE of the INST on and off.		
12STR	Turns the 12STR of the INST on and off.		
STR BEND	Turns the STR BEND of the INST on and off.		
PU SEL UP PU SEL DOWN	Switches the PU of the INST.		
DUAL SEL	Switches the DUAL GUITAR/BASS between type A and type B.		
NORMAL	Turns the NORMAL INPUT on and off.		
FX1	Turns the FX1 on and off.		
FX2	Turns the FX2 on and off.		
FX3	Turns the FX3 on and off.		
CMP	Turns the COMPRESSOR on and off.		
DS	Turns the DISTORTION on and off.		

Value	Explanation	
DS SOLO	Switches the DISTORTION solo function on/off.	
AMP1	Turns the AMP1 on and off.	
AMP1 SOLO	Switches the AMP1 solo function on/off.	
AMP2	Turns the AMP2 on and off.	
AMP2 SOLO	Switches the AMP2 solo function on/off.	
EQ1	Turns the EQUALIZER1 on and off.	
EQ2	Turns the EQUALIZER2 on and off.	
NS1	Turns the NOISE SUPPRESSOR1 on and off.	
NS2	Turns the NOISE SUPPRESSOR2 on and off.	
DLY1	Turns the DELAY1 on and off.	
DLY2	Turns the DEALY2 on and off.	
СНО	Turns the CHORUS on and off.	
REV	Turns the REVERB on and off.	
S/R1	Turns the SEND/RETURN1 on and off.	
S/R2	Turns the SEND/RETURN2 on and off.	
FX1 TRIGGER	Turns the trigger of the FX1 on and off.	
FX2 TRIGGER	Turns the trigger of the FX2 on and off.	
FX3 TRIGGER	Turns the trigger of the FX3 on and off.	
DIV CH.SELECT	Switches the DIVIDER channel select.	
MIDI START	Controls the Start/Stop of external MIDI devices (such as sequencers).	
mmC PLAY	Controls the Play/Stop of external MIDI devices (such as hard disk recorders).	

\*1 CUR NUM cannot be assigned.

\*2 This cannot be assigned to [♥] DOWN, [▲] UP, CTL1 or CUR NUM.

### [EXP1], [EXP2], [GK VOL]

• •

Value	Explanation		
OFF	No assignment.		
FV1	Assigns the FOOT VOLUME1.		
FV2	Assigns the FOOT VOLUME2.		
FV1+TUNER	Assigns the FOOT VOLUME1. The tuner is displayed if the pedal is returned to minimum setting.		
FV2+TUNER	Assigns the FOOT VOLUME2. The tuner is displayed if the pedal is returned to minimum setting.		
FX1 PEDAL POS.	Assigns the FX1 PEDAL POSITION.		
FX2 PEDAL POS.	Assigns the FX2 PEDAL POSITION.		
FX3 PEDAL POS.	Assigns the FX3 PEDAL POSITION.		
MEMORY LEVEL100	Assigns the MEMORY LEVEL, to be controlled within a range of 0–100.		
MEMORY LEVEL200	Assigns the MEMORY LEVEL, to be controlled within a range of 0–200.		
INST LEVEL	Assigns the INST LEVEL.		
INST CUTOFF	Assigns the INST CUTOFF.		
INST RESO	Assigns the INST RESONANCE.		
GTR VOL	Assigns the INST GUITAR (BASS) VOLUME.		
DUAL A/B	When INST is set to DUAL GUITAR, this assigns the A/B BALANCE.		
NOR MIX 100	Assigns the INST NOR MIX LEVEL function to be controlled within a range of 0–100.		
NOR MIX 200	Assigns the INST NOR MIX LEVEL function to be controlled within a range of 0–200.		
STR BEND	Assigns the INST STR BEND CONTROL.		
MIXER A/B	Assigns the MIXER A/B BALANCE.		
BALANCER 1 A/B	Assigns the BALANCER1 A/B BALANCE.		
BALANCER 2 A/B	Assigns the BALANCER2 A/B BALANCE.		

### MODE

Value	Explanation
TOGGLE	The setting is toggled OFF (minimum value) or ON (maximum value) with each operation.
MOMENT	The normal state is OFF (minimum value), and is ON (maximum value) only while the controller is operated.

## PREFERENCE

Value	Explanation
MEMORY	Different settings can be made independently for each memory.
SYSTEM	The same settings are shared by all memories.

## **ASSIGN SETTING**

## ASSIGN1-ASSIGN16

For each parameter, you can specify, in detail, which controller will control which parameter. You can create 16 sets of such assignments.

Parameter	Value	Explanation	
SW	OFF, ON	Turns the ASSIGN1–16 on/off.	
TARGET	This selects th	e parameter to be changed.	
TARGET	→ "ASSIGN TA	RGET list" (p. 54)	
		ninimum value for the range in which the	
*1	parameter can change. The value differs depending on		
		r assigned for TARGET parameter.	
MAX		naximum value for the range in which the n change. The value differs depending on	
*1		r assigned for TARGET parameter.	
	Selects the controller that operates the parameter.		
SOURCE	→ "SOURCE liss	st" (p. 40)	
*1		nen SOURCE is [▼]DOWN, [▲]UP or CTL1	
	and FOOT S	SW MODE (p. 52) is UP/DOWN.	
	TOGGLE	The setting is toggled OFF (minimum value) or ON (maximum value) with	
MODE	TOGGLE	each operation.	
*1		The normal state is OFF (minimum	
	MOMENT	value), and is ON (maximum value)	
		only while the controller is operated.	
ACT LOW	0–126	You can set the controllable range for target parameters within the source's	
		operational range.	
		Target parameters are controlled	
ACT HIGH	1–127	within the range set with Act Low and	
		Act High.	
		You should normally set Act Low to "0" and Act High to "127".	
		Adjusts how long it takes for the	
		target to transition from minimum to	
<b>RISE TIME</b>	0–100	maximum.	
*1,*2		When you want to make the	
		value change instantly, such as for parameters with on/off values or tap	
		input, set this to "0".	
		Adjusts how long it takes for the	
		target to transition from maximum to	
FALLTIME	0–100	minimum. When you want to make the	
*1,*2		When you want to make the value change instantly, such as for	
		parameters with on/off values or tap	
		input, set this to "0".	
		Adjusts the input sensitivity when STRING1–STRING7, STR HiC–STR LowB,	
INPUT SENS	0–100	STRING ALL, or NORMAL IN is selected	
		as the SOURCE.	
	SAW	$  \land \land \rangle$	
WAVE PEDAL FORM	TRI	$  \land \land \rangle$	
	SINE		
WAVE PEDAL RATE	0–100, BPM	This determines the time spend for one cycle of the assumed EXP Pedal.	
		Transmits a message on the MIDI	
MIDI CH	SYSTEM	channel specified by the parameter TX	
*3,*4		CHANNEL in "MIDI SETTING".	
	1–16	The message is transmitted on the specified MIDI channel.	
		•	

### Parameter list

Parameter	Value	Explanation
MIDI CC# *3	0–127	The message is transmitted using the specified controller number.
MIDI CC# MIN *3	0–127	Selects the minimum value of the transmitted CC# message.
MIDI CC# MAX *3	0–127	Selects the maximum value of the transmitted CC# message.
MIDI PC# *4	1–128	Specifies the program number that is transmitted.
MIDI PC# BANK MSB *4	OFF, 0–127	Specifies the bank select MSB that is transmitted. If this is OFF, the bank select MSB is not transmitted.
MIDI PC# BANK LSB *4	OFF, 0–127	Specifies the bank select LSB that is transmitted. If this is OFF, the bank select LSB is not transmitted.

\*1 Enabled when TARGET is not BPM TAP or MIDI PC#

\*2 Enabled when SOURCE is not EXP1, EXP2, GK VOL or MIDI CC#

\*3 Enabled when TARGET is MIDI CC#

\*4 Enabled when TARGET is MIDI PC#

### **SOURCE** list

Value	Explanation	
[▼] DOWN	Assigns the [▼] switch on this unit.	
[▲] UP	Assigns the [▲] switch on this unit.	
CTL1	Assigns the [CTL 1] switch on this unit.	
CTL2, CTL3	Assigns the footswitch connected to the CTL 2, 3/ EXP 1 jack.	
CTL4, CTL5	Assigns the footswitch connected to the CTL 4, 5/ EXP 2 jack.	
EXP1	Assigns the external expression pedal connected to the CTL 2, 3/ EXP 1 jack.	
EXP2	Assigns the expression pedal connected to the CTL 4, 5/EXP 2 jack.	
CURNUM	Assigns the same number switch as the selected memory number.	
CONNOM	* Enabled when FOOT SW MODE (p. 52) is set to "BANK/NUMBER".	
GK SW1, GK SW2	Assigns the [S1] and [S2] switch of the divided pickup.	
GK VOL	Assigns the volume knob of the divided pickup.	
	Assigns the wave pedal.	
WAVE PEDAL	→ "Virtual expression pedal system (wave pedal)" (p. 41)	
STRING1– STRING7, STRING ALL *1	The assigned target parameter will change according to the input level.	
STR HIC- STR LowB, STRING ALL *2		
NORMAL IN		
CC#1–CC#31, CC#64–CC#95	Assigns control change messages from an external MIDI device.	

\*1 Enabled for GUITAR MODE.

\*2 Enabled for BASS MODE.

## Virtual expression pedal system (wave pedal)

By assigning a desired parameter to the virtual expression pedal, you can produce an effect as though you were operating a physical expression pedal to change the volume or tone quality in real time. The virtual expression pedal system can be specified as a SOURCE for ASSIGN 1–ASSIGN 16.

### Wave pedal

If SOURCE is set to "WAVE PEDAL", the virtual expression pedal will cyclically modify the parameter specified by TARGET in a fixed wave form.



Always changes in a fixed curve regardless of the actual pedal

# STRING1-STRING6, STR HIC-STR LowB, STRING ALL, NORMAL IN

The parameter set as the target changes in response to the input level.

#### MEMO

If you want to adjust the input sensitivity, set the INPUT SENS.

### **INPUT SENS**

Parameter	Value	Explanation
INPUT SENS	0–100	Adjusts the input sensitivity when STRING1–STRING7, STR HiC–STR LowB, STRING ALL, or NORMAL IN is selected as the SOURCE.

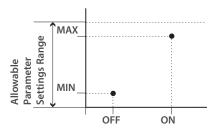
### About the range of a target's change

The target's value changes between MIN (the minimum value) and MAX (the maximum value).

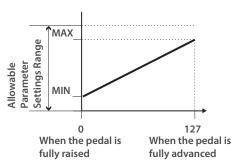
When using an external footswitch, or other controller that acts as an on/off switch, "Min" is selected with Off (CLOSED), and "Max" is selected with On (OPEN).

When using an external expression pedal or other controller that generates a consecutive change in the value, the value of the setting changes accordingly, within the range set by the minimum and maximum values. Also, when the target is of an on/off type, the median value of the received data is used as the dividing line in determining whether to switch it on or off.

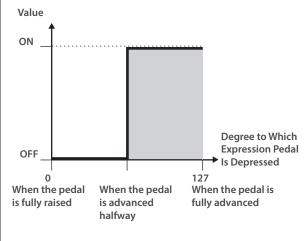
#### When using the footswitch:



When using the expression pedal:



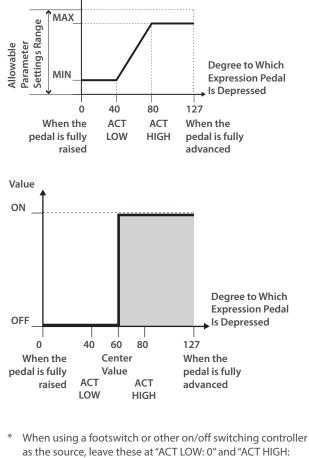
When controlling the On/Off target with the expression pedal:



- \* The range that can be selected changes according to the target setting.
- \* When the "minimum" is set to a higher value than the "maximum", the change in the parameter is reversed.
- \* The values of settings can change if the target is changed after the "minimum" and "maximum" settings have been made. If you've changed the target, be sure to recheck the "minimum" and "maximum" settings.

### About the Range of a Controller's Change

This sets the operational range within which the value of the setting changes when an expression pedal or other controller that changes the value consecutively is used as the source. If the controller is moved outside the operational range, the value does not change, it stops at "minimum" or "maximum". (Example) With ACT LOW: 40, ACT HIGH: 80



127". With certain settings, the value may not change.

## **MEMORY MIDI**

When you change memories, a program number and bank select message are transmitted to an external MIDI device.

\* If the TX PC MAP setting in MIDI SETTING is "FIX", the MEMORY MIDI function does not operate. Change the setting to "MEMORY MIDI".

Parameter	Value	Explanation
CHANNEL (CH)	OFF, 1–16	Specifies the transmit channel for MIDI messages. If this is OFF, no MIDI message is transmitted.
PC#	OFF, 1–128	Specifies whether a program number is transmitted when you switch memories.
		If this is OFF, no program number is transmitted.
		Specifies whether bank select messages are transmitted when you switch memories.
BANK MSB	OFF, 0–127	* It is not possible to transmit only BANK LSB.
BANK LSB	OFF, 0-127	* Not transmitted if PC# is OFF.
		* It is not possible to transmit only bank select. Bank select is always transmitted in conjunction with program numbers.
CC1#	OFF, 0–127	Specifies whether a control change is transmitted when you switch memories.
CC2#		If this is OFF, no control change is transmitted.
CC1 VALUE CC2 VALUE	0–127	Specifies the value of the control change.

## GUITAR TO MIDI/BASS TO MIDI

These parameters are set for the GUITAR TO MIDI/BASS TO MIDI function for each scene.

To use GUITAR TO MIDI/BASS TO MIDI, set the system parameter for GUITAR TO MIDI/BASS TO MIDI On/Off to "ON".

Refer to the SYSTEM parameters for the parameters that work globally across the VG-800 for the GUITAR TO MIDI/BASS TO MIDI function.

Parameter	Value	Explanation	
	Specifies how MIDI messages are transmitted.		
MONO/POLY		One channel is used per string.	
	MONO	Since you can use a different MIDI channel for each string, you can select a different tone for each string, and you can use bending techniques to apply continuous change in pitch data to specific strings. When doing so, the sound module you're using must support multitimbral playing.	
		Transmits the data for all strings via one channel.	
	POLY	Although this lets you easily configure the sound module to transmit MIDI data for each string via a single channel, you are limited to selecting only the same tone for all strings.	
ALT TUNE	OFF, ON	Specifies whether the INST's ALT TUNE information is applied to GUITAR TO MIDI. The ALT TUNE for GUITAR/BASS "A" is applied when INST TYPE is DUAL GUITAR or DUAL BASS.	
	data are transm	natic setting, changes in pitch bend MIDI nitted in half step intervals when you use ques or the like to gradually change the uitar/bass.	
	OFF	Pitch bend data is output as normal. The pitch changes continuously when you are bending the strings or playing vibrato.	
	TYPE1	When the pitch changes, the sound that's playing does not stop, and only the pitch bend data is applied.	
CHROMATIC		No attack sound is heard when the pitch changes, and instead the pitch characteristically changes as if you're playing slurred notes on a recorder.	
		When the pitch changes, the note is retriggered at the new pitch, and the pitch changes in half steps.	
	TYPE2	As a result, the attack sound plays whenever the pitch changes.	
		The retriggered notes get softer as the string vibration attenuates.	
		As with Chromatic TYPE 2, the note is retriggered at the new pitch, and the pitch changes in half steps.	
	TYPE3	However, the note is retriggered at the same volume (strength) at which you first played, even after the string vibration attenuates.	
DYNAMICS	1–10	Sets the sensitivity used for the output data (velocity).	
DINAMICS	1-10	Larger values make it easier to trigger higher velocities.	

Parameter	Value	Explanation	
	You can achieve more natural dynamics by changing the Play Feel setting, according to how you play your guitar or bass.		
		FEEL1 is the mode that gives the most expression in terms of how the volume changes according to your picking dynamics.	
PLAY FEEL	FEEL1-FEEL4	Larger values make it easier to play louder notes with less picking effort.	
		This gives you more uniform volume, even when you're using tapping techniques or picking with varied strengths.	
	NO DYNA	The volume is always the same in this mode, regardless of your picking dynamics.	
NO DYNA VELOCITY	0–127	Sets the fixed velocity value when Play Feel is set to "NO DYNA".	
LOW VELO CUT	OFF, 1–10	Adjust this setting if the unit triggers notes even when you're just touching a string.	
		Larger values make the notes harder to trigger.	
TRANSPOSE	-36-+36	Shifts the outputted note data of the notes you play on the guitar in half-step intervals.	
BEND RANGE	0–24	Sets the maximum amount of change for pitch bend messages.	
	This selects how	/ the hold effect is applied.	
		The note-on data is held when you use a controller to turn the hold function on.	
	HOLD1	If you keep playing with the hold function on, the note-on data keeps holding. However, if a note message is triggered on the same string, the note message previously triggered on that string is turned off and the new note- on message is triggered.	
		This lets you play notes on different frets, without breaks in the sound.	
		The note-on data is held when you use a controller to turn the hold function on.	
HOLD TYPE	HOLD2	Note that any note-on messages you play afterwards with the hold function on are not output.	
		The note-on data is held when you use a controller to turn the hold function on.	
	HOLD3	If you keep playing with the hold function on, you can still output note-on messages for strings other than the ones that are held, but those notes are not held.	
		The note-on data is held when you use a controller to turn the hold function on.	
	HOLD4	If you keep playing with the hold function on, the note-on messages are subsequently held.	
		This works like the damper pedal on a piano.	
STRING MUTE 1(HIC)–STRING MUTE 6 (LOWB), STRING MUTE 7	OFF, ON	Sets mute on/off for the string.	

### Parameter list

Parameter	Value	Explanation
POSITION LIMIT SW	OFF, ON	Turns the position limit function on/ off.
POSITION LIMIT LOW	NO LIMIT, 0–24FRET	_ Sets the fret range within which the
POSITION LIMIT HIGH	0–24FRET, NO LIMIT	sound plays.
CC1:SOURCE	GK VOL, GK	You can output controller motions specified in SOURCE as control change messages.
CC2:SOURCE	SW1–2, CTL1– 5, EXP1–2	* Enabled when SOURCE is CTL1 and FOOT SW MODE (p. 52) is UP/ DOWN.
CC1:CC#	OFF,	Specifies the control change message number to be output.
CC2:CC#	CC#1–31, 64–95	For POLY mode, BASIC CH is used; and for MONO mode, six channels from BASIC CH are used for output.
BANK MSB *1		
STR1: BANK MSB(HIC)– STR6: BANK MSB(LOWB), STR7: BANK MSB *2	OFF, 0–127	Specifies the bank select (MSB) that is output.
BANK LSB *1		
STR1: BANK LSB(HIC)- STR6: BANK LSB(LOWB), STR7: BANK LSB *2	OFF, 0–127	Specifies the bank select (LSB) that is output.
PC *1		
STR1: PC(HIC)- STR6: PC(LOWB), STR7: PC *2	OFF, 1–128	Specifies the program number that is output.

\*1 Enabled when MODE is set to POLY.

\*2 Enabled when MODE is set to MONO.

## LED COLOR

You can specify the color of the LED for each footswitch.

## [▼], [▲], [CTL1]

Value	Explanation
RED	
BLUE	
LIGHT BLUE	
GREEN	Specify the color of LED illumination.
YELLOW	
WHITE	
PURPLE	

## SYSTEM paremeters

## **GK SETTING paremeters**

Configure the divided pickup settings so that the VG-800 is always in the best condition when you play.

You need to make these settings in situations such as when you've newly installed a divided pickup on your guitar/bass, or when you've changed the height of the divided pickup.

You can save up to 10 of these settings (GK SETTINGS) for the VG-800.

By saving the settings for multiple guitars/basses with the GK SETTING, you can quickly recall different settings when you're switching between guitars/basses during a performance.

The GK SETTINGS are saved even after you turn off the power. For this reason, you don't need to reconfigure the settings each time you play.

Parameter	Value	Explanation
GK SET SELECT	1-10	Selects the GK SET that's used when you set the GK SET to "SYSTEM" in EFFECTS parameters → MASTER parameters (p. 37).
		Each of the parameters you set in GK SETTING are saved in the GK SET number that you selected here.
NAME	Sets the GK set r	name (up to eight characters).
	GK-5	Select this when you're using the BOSS GK-5.
	GK5KIT-6	Choose this if you're using a guitar with a BOSS GK5-KIT (6 strings).
	GK5KIT-7	Choose this if you're using a guitar with a BOSS GK5-KIT (7 strings).
	GK-3 *3	Select this when you're using the Roland GK-3.
GK TYPE	GK-2A *3	Select this when you're using the Roland GK-2A, or a commercially available guitar with a built-in divided pickup (13 pin type).
*1	GC-1 *3	Select this when you're using the Roland V-Guitar GC-1.
	PIEZO *3	Select this when using a guitar with a piezo pickup (flat response).
	PIEZO F *3	Select this when using a guitar with a piezo pickup (Fishman).
	PIEZO G *3	Select this when using a guitar with a piezo pickup (Graph Tech).
	PIEZO L *3	Select this when using a guitar with a piezo pickup (L.R. Baggs).
	PIEZO R *3	Select this when using a guitar with a piezo pickup (RMC).
	GK-5B	Select this when you're using the BOSS GK-5B.
GK TYPE *2	GK5KIT-B	Choose this if you're using a bass with a BOSS GK5-KIT.
	GK-3B *3	Select this when you're using the Roland GK-3B.
	GK-2B *3	Select this when you're using the Roland GK-2B, or a commercially available bass guitar with a built-in divided pickup (13 pin type).
GK TYPE *2	PIEZO(B) *3	Select this when using a bass guitar with a piezo pickup (flat response).
	PIEZO G(B) *3	Select this when using a bass guitar with a piezo pickup (Graph Tech).
	PIEZO R(B) *3	Select this when using a bass guitar with a piezo pickup (RMC).

SCALE *1	E00 660 mm	Explanation
	500–660 mm, ST(648 mm), LP(628 mm)	Sets the scale length of the guitar you're using.
SCALE *2	710–940 mm, SHORT (760 mm), MEDIUM (812 mm), LONG JB/PB (864 mm), EXTRA LONG (914 mm)	Sets the scale length of the bass guitar you're using.
GK PU POSITION *2	GK PU POSITIO 45T 1st string	n for a four-string bass guitar. R-1 4STR-2 4STR-3 for a five-string bass guitar (low B to G). to for a five-string bass guitar (low B to G). for a five-string bass guitar (E to high C). Hi1 5STR-Hi2 for a six-string bass guitar. 6STR g g g g g g g g g g
	3rd strin 4th strin Low B-strin	

### Parameter list

Parameter	Value	Explanation
	This sets the dire pickup.	ection you use to install the divided
PUDIRECTION	NORMAL	In this mode, the cable comes out from the sixth-string side. (GUITAR MODE) In this mode, the cable comes out from the bridge side. (BASS MODE)
	REVERSE	from the first-string side. (GUITAR MODE)
PU PHASE	NORMAL, INVERSE	Sets the phase of the divided pickup and of the guitar/bass guitar normal pickup. If this is set to "NORMAL" and the low frequency range is getting cut, set this to "INVERSE".
S1/S2 POSITION	NORMAL, REVERSE	Switches between guitars/bass guitars on which a GK5-KIT is installed, GK-3, GK-2A, GK-3B and GK- 2B [S1], [S2] switch.

Parameter	Value	Explanation
	Sets the tuning	you're using on your guitar/bass.
	NORMAL	Regular tuning.
	OPEN D, OPEN E, OPEN G, OPEN A *3	A tuning with which the open string play a major chord.
	DROP D-A *3	With "DROP D", the sixth string is tuned to a lower D.
		For the other tunings, the DROP D tunings are lowered even further.
TUNING STYLE	D-MODAL *3	A tuning that drops the first, second and sixth strings a whole step for an ethnic feel.
	NASHVL *3	A tuning that raises the third, fourth fifth and sixth strings one octave, giving the effect of playing just the secondary strings on a 12-string guitar.
	4TH *3	A tuning in fourths that raises the first and second strings by a half ste
	-51 STEP	A tuning that lowers all strings in ha steps.
GAIN	1–4	Adjusts the gain when a GKC-AD is connected. Lower the Gain setting when the input sensitivity doesn't decrease even after you've lowered the Sens value, or if the sound distorts when you play strongly.
NORMAL PU GAIN	-20-+20 dB	Adjusts the input level of the norma pickup. When making this setting, set the divided pickup's select switc to "MIX".
PIEZO TONE L *4	-10-+10 dB	Adjusts the low frequency range.
PIEZO TONE H *4	-10-+10 dB	Adjusts the high frequency range.
DISTANCE 1– DISTANCE 7 *1	10.0–30.0 mm	Sets the distances for the divided pickup and the bridge respectively.
DISTANCE HiC- DISTANCE LowB *2	5.5–55.5 mm	<ul> <li>This does not need to be set if the pickup type is set to "GC-1" or to a piezo-type pickup.</li> </ul>
SENS 1(HiC)– SENS 6(LowB), SENS 7	0–100	Sets the various input sensitivities for the divided pickup.

\*1 Enabled for GUITAR MODE.

\*2 Enabled for BASS MODE.

\*3 Use this with the GKC-AD (sold separately).

\*4 Enables when GK TYPE is set to a piezo-type pickup.

## **IN/OUT SETTING paremeters**

### **OUTPUT SELECT**

These settings specify the device (amp) that's connected to the OUTPUT jacks.

Value	Explanation
LINE/PHONES (RECORDING)	Choose this setting if you're using headphones, or if the VG-800 is connected to a keyboard amp, mixer, or digital recorder.
JC-120 RETURN	Choose this setting if the VG-800 is connected to the RETURN jack of the Roland JC-120 guitar amp.
JC-120 INPUT	Choose this setting if the VG-800 is connected to the guitar input of a JC-120 guitar amp.
KATANA-100/212 RETURN	Choose this setting if the VG-800 is connected to the RETURN jack of the KATANA-100/212 guitar amp.
KATANA-100/212 INPUT	Choose this setting if the VG-800 is connected to the guitar input of a KATANA-100/212 guitar amp.
KATANA-100 RETURN	Choose this setting if the VG-800 is connected to the RETURN jack of the KATANA-100 guitar amp.
KATANA-100 INPUT	Choose this setting if the VG-800 is connected to the guitar input of a KATANA-100 guitar amp.
TUBE COMBO 212 RETURN	This setting is for cases other than the above when connecting to the RETURN of a vacuum tube combo amp (in which the amp and speakers are in a single unit) equipped with one 12" speaker.
TUBE COMBO 212 INPUT	This setting is for cases other than the above when connecting to the INPUT of a vacuum tube combo amp (in which the amp and speakers are in a single unit) equipped with one 12" speaker.
TUBE COMBO 112 RETURN	This setting is for cases other than the above when connecting to the RETURN of a vacuum tube combo amp (in which the amp and speakers are in a single unit) equipped with one 12" speaker.
TUBE COMBO 112 INPUT	This setting is for cases other than the above when connecting to the INPUT of a vacuum tube combo amp (in which the amp and speakers are in a single unit) equipped with one 12" speaker.
TUBE STACK 412 RETURN	This setting is for cases other than the above when connecting to the RETURN of a vacuum tube stack guitar amp (in which the amp and speakers are separate units). This assumes that the connected speaker cabinet
TUBE STACK 412 INPUT	is equipped with four 12-inch speakers. This setting is for cases other than the above when connecting to the INPUT of a vacuum tube stack guitar amp (in which the amp and speaker are separate units). This assumes that the connected speaker cabinet is equipped with four 12-inch speakers.
BASS AMP WITH TWEETER	Use this setting when connecting to a tweeter- equipped bass amp.
BASS AMP NO TWEETER	Use this setting when connecting to a bass amp that has no tweeter.

## **GLOBAL EQ**

This adjusts the tone of the OUTPUT regardless of the equalizer on/off settings of individual memories. You can save three types of GLOBAL EQ settings.

Parameter	Value	Explanation
SWITCH	OFF, ON	Turns this effect on/off.
EQ SET SELECT	EQ1-EQ3	Selects the EQ settings.
LOW CUT	FLAT, 20.0 Hz–16.0 kHz	Cuts the frequencies below the frequency that you set. When FLAT is selected, the low cut filter will have no effect.
LOW GAIN	-20-+20 dB	Adjusts the low frequency range tone.
LOW-MID FREQ	20.0 Hz–16.0 kHz	Specifies the center of the frequency range to be adjusted by the LOW-MID GAIN.
LOW-MID Q	0.5–16	Adjusts the width of the area affected by the EQ centered at the LOW-MID FREQ. Higher values will narrow the area.
LOW-MID GAIN	-20-+20 dB	Adjusts the tonal quality of the low to midrange frequencies.
HIGH-MID FREQ	20.0 Hz–16.0 kHz	Specifies the center of the frequency range to be adjusted by the HIGH- MID GAIN.
HIGH-MID Q	0.5–16	Adjusts the width of the area affected by the EQ centered at the HIGH-MID FREQ. Higher values will narrow the area.
HIGH-MID GAIN	-20-+20 dB	Adjusts the tonal quality of the mid- to high-frequency range.
HIGH GAIN	-20-+20 dB	Adjusts the tonal character of the high frequencies.
HIGH CUT	20.0 Hz–16.0 kHz, FLAT	Cuts the frequencies above the frequency that you set. When FLAT is selected, the high cut filter will have no effect.
LEVEL	-20-+20 dB	Adjusts the overall volume level of the equalizer.

### TOTAL

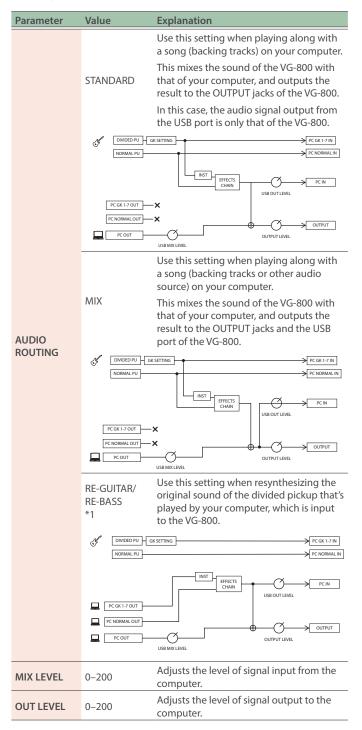
These parameters control the threshold level of the noise suppressor used by each patch, the overall reverb level, and the overall output. This does not affect the settings of each memory.

Parameter	Value	Explanation
	-20 dB-+20 dB	Control the threshold level of the noise suppressor used by each memory.
TOTAL NS THRESHOLD		It is effective to adjust this when you switch to connecting a different guitar/bass guitar, or according to the amount of noise in the place where you're playing. This does not affect the settings of each memory.
		<ul> <li>If you want to use the settings specified for each memory, set this to 0 dB.</li> </ul>

Parameter	Value	Explanation
	0%-200%	Adjusts the reverb level specified for each memory.
TOTAL REVERB LEVEL		It is useful to adjust the reverb level appropriately for the space in which you're performing. This does not affect the settings of each memory.
		<ul> <li>If you want to use the settings specified for each memory, set this to 100%.</li> </ul>

### **USB AUDIO**

Here you can make USB-related settings for when the VG-800 is connected to a computer via USB.



Parameter	Value	Explanation
DRIVER	be changed v	USB driver operation mode. This setting can't when the unit is connected via USB. To switch in this case, unplug the USB cable.
MODE	VENDOR This uses a dedicated driver.	
	GENERIC	This uses the standard driver of the respective OS.

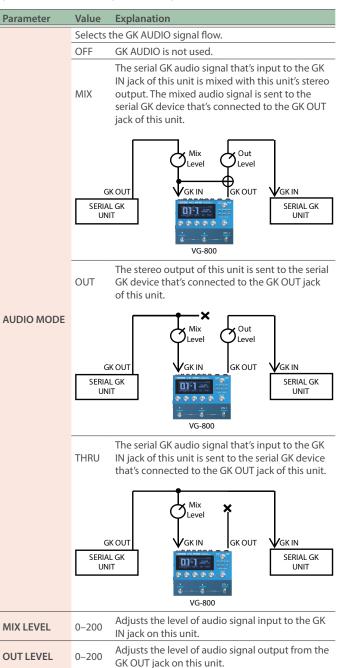
\*1 This is enabled when the DRIVER MODE is "VENDOR".

The "re-guitar" or "re-bass" technique is used to create sounds by recording the INST or original sound without effects into a DAW, and using the INST sound or effect after that. This lets you redo just the sound that's produced after you've recorded your parts.

### **GK AUDIO**

You can transmit the output sound from the VG-800 (stereo audio) to another VG-800 or other serial GK device, or mix the audio signal from another serial GK device with the sound of this unit.

The setting can be changed for each memory. Refer to the EFFECTS parameters → MASTER parameters (p. 37) for details.



## HARDWARE SETTING paremeters

## **KNOB SETTING**

Parameter	Value	Explanation	
KNOB1-KNOB5	Here you can assign the desired parameters to knobs [1]–[5] in the Play Screen.		
KNUBI-KNUB5	* The settings you make here are only for the knobs in the Play Screen.		
KNOB LOCK	OFF, ON	When this is ON, knob operations are disabled on the Play Screen.	

### KNOB1-KNOB5

CATEGORY	PARAMETER		
TUNER	ON/OFF		
FX BYPASS	ON/OFF		
	BPM		
MASTER	KEY		
	MEMORY LEVEL		
	INST SW		
INST	INST TYPE		
	ALT TUNE SW(A)		
	ALT TUNE MODE(A)		
	ALT TUNE TYPE (A)		
ALT TUNE	ALT TUNE SW B		
	ALT TUNE MODE B		
	ALT TUNE TYPE B		
	ON/OFF		
FX1	FX TYPE		
= 1/2	ON/OFF		
FX2	FX TYPE		
	ON/OFF		
FX3	FX TYPE		
	ON/OFF		
	ТҮРЕ		
	GAIN		
	LEVEL		
AMP1	BASS		
	MIDDLE		
	TREBLE		
	PRESENCE		
	ON/OFF		
	ТҮРЕ		
	GAIN		
	LEVEL		
AMP2	BASS		
	MIDDLE		
	TREBLE		
	PRESENCE		
	ON/OFF		
CHORUS	MODE		
	RATE		
	DEPTH		
	ON/OFF		
	ТҮРЕ		
COMPRESSOR	SUSTAIN		
	ATTACK		
	EFFECT LEVEL		

CATEGORY	PARAMETER
	ON/OFF
	ТҮРЕ
DISTORTION	DRIVE
DISTORTION	TONE
	LEVEL
DEL AVA	DELAY TYPE
DELAY1	
	FEE dBACK
	EFFECT LEVEL
	ON/OFF
	DELAY TYPE
DELAY2	DELAY TIME
	FEE dBACK
	EFFECT LEVEL
	ON/OFF
REVERB	ТҮРЕ
	EFFECT LEVEL
GK SETTING	GK SET
OUTPUT	OUTPUT SELECT
SETTING	OUTPUT LEVEL
TOTAL	TOTAL REVERB LEVEL
TOTAL	TOTAL NS THRESHOLD
	ON/OFF
	EQ SET
	1:LEVEL
	1:LOW CUT
	1:LOW GAIN
	1:LOW-MID FREQ
	1:LOW-MID Q
	1:LOW-MID GAIN
	1:HIGH-MID FREQ
	1:HIGH-MID Q
	1:HIGH-MID GAIN
	1:HIGH GAIN
	1:HIGH CUT
	2:LEVEL
	2:LOW CUT
	2:LOW GAIN
	2:LOW-MID FREQ
GLOBAL EO	2:LOW-MID Q
	2:LOW-MID GAIN
	2:HIGH-MID FREQ
	2:HIGH-MID Q
	2:HIGH-MID GAIN
	2:HIGH GAIN
	2:HIGH CUT
	3:LEVEL
	3:LOW CUT
	3:LOW GAIN
	3:LOW-MID FREQ
	3:LOW-MID Q
	3:LOW-MID GAIN
	3:HIGH-MID FREQ
	3:HIGH-MID Q
	3:HIGH-MID GAIN
	3:HIGH GAIN

3:HIGH CUT

### Parameter list

CATEGORY	PARAMETER	
	USB AUDIO ROUTING	
USB AUDIO	MIX LEVEL	
	OUT LEVEL	
	AUDIO MODE	
GK AUDIO	MIX LEVEL	
	OUT LEVEL	
GUITAR TO MIDI/ BASS TO MIDI	ON/OFF	

## **ASSIGN HOLD**

Parameter	Value	Explanation
EXP 1	OFF	When you switch to a different memory, the values for EXP1, EXP2 and GK VOL are set to the values saved for that memory.
EXP 2 GK VOL *1	ON	When you switch to a different memory, if the parameters assigned to EXP1, EXP2 and GK VOL are the same as the previous memory, the values stay the same.

\*1 Enabled when GK TYPE (p. 45) is set to a value other than GK-5 or GK-5B.

## **GROUND LIFT**

Parameter	Value	Explanation	
RETURN	Specifies whether the ground of the RETURN jack is connected to the VG-800's chassis or is disconnected.		
	GND	The ground of the RETURN jack is connected to the chassis (no ground lift).	
	LIFT	The ground of the RETURN jack is disconnected from the chassis.	

## AUTO OFF

The power to this unit turns off automatically to save energy after a certain amount of time (20 minutes by default) has passed since it was last used or since its buttons or controls were operated.

. . . . . . . . . . . . . . . . . .

- If the power automatically turns off, any unsaved data is lost. Before the power turns off, save the data that you want to keep.
- If you don't want the unit to turn off automatically, turn this setting off. Note that when the setting is turned off, the unit may consume more power.
- You can simply turn the power back on after it has turned off automatically.

Parameter	Value	Explanation
AUTO OFF	20 MIN	The power will turn off automatically when 20 minutes have passed since you last played or operated the unit. * This is the factory setting.
	1 HOUR	The power will turn off automatically when 1 hour has passed since you last played or operated the unit.
	5 HOURS	The power will turn off automatically when 5 hours have passed since you last played or operated the unit.
	10 HOURS	The power will turn off automatically when 10 hours have passed since you last played or operated the unit.
	OFF	The power will not turn off automatically.

### **OTHER**

. . . .

Parameter	Value	Explanation
LCD CONTRAST	1–10	Here you can adjust the brightness of the characters in the display.

## **TUNER** paremeters

The VG-800 tuner features three modes: single mode for tuning individual strings, multi mode for determining the pitch of all strings at the same time, and TT mode for tuning guitars/bass guitars that use true temperament.

You can use the  $[\blacktriangleleft]$   $[\blacktriangleright]$  buttons on the tuner screen to switch between modes.

MULTI MODE	HIMMINI J=120 01-1:VG-S00 MEMORY 01         OUTIMIL           STR1         E           STR2         E           STR3         G           STR4         D           STR5         R           STR6         E           PITCH         OUTPUT           440Hz         MUTE
	N IIIIIIIIII J=120 01-1:VG-800 MEMORY 01 001;
SINGLE MODE	
	PITCH OUTPUT 440Hz MUTE
	448H2 MOTE
	N IIIIIIIII J=120 01-1:VG-800 MEMORY 01 001:
	· · · ·
TT MODE	
	PITCH OUTPUT 440Hz MUTE

\* TT mode only allows for regular tuning.

Parameter	Value	Explanation
PITCH	435–445 Hz	Specifies the reference pitch.
	MUTE	Sound will not be output while tuning.
	BYPASS	While tuning, the sound of the divided pickup being input to the VG-800 is output without change.
OUTPUT	THRU	Lets you tune your guitar while outputting the sound of the current memory.
		* When ALT TUNE is on, the alternate tuning is applied to the outputted sound.

## **FX BYPASS paremeters**

FX BYPASS is a function that bypasses all effects and outputs only the INST sound.

You can use this to check only the INST sound without having to turn off each effect.

Parameter	Value	Explanation
FX BYPASS	OFF, ON	When this is "ON", only the INST sound is output.

## **PLAY OPTION paremeters**

Here you can specify how the pedals will work during performance.

Parameter	Value	Explanation	
		Use this mode to switch consecutively between the memories stored in this unit.	
	UP/DOWN	Press the [▼] pedal to switch to the previous memory.	
		Press the [▲] pedal to switch to the next memory.	
		Use this mode to switch between the three memories stored in this unit.	
		Press the [▼] pedal to switch to the first memory in the same bank.	
		Press the [ <b>A</b> ] pedal to switch to the second memory in the same bank.	
FOOT SWITCH		Press the [CTL1] pedal to switch to the third memory in the same bank.	
MODE		Press the [♥] and [▲] pedals at the same time to switch to the previous bank.	
	BANK/NUMBER	Press the [▲] and [CTL1] pedals at the same time to switch to the next bank.	
		MEMO	
		• You can use the BANK MODE setting to set whether the memory changes instantly when you switch to a different bank, or after you actually select the memory.	
		• The CURRENT NUMBER (CUR NUM) function is available only in BANK/ NUMBER mode.	
MEMORY EXTENT MIN *1	01-1–50-3	Sets the lower limit for the memories	
MEMORY EXTENT MAX *1	01-1–50-3	Sets the upper limit for the memories.	
DOWN&UP SWITCH *1	OFF, TUNER, FX BYPASS,	Specifies what happens when you	
UP&CTL SWITCH *1	MEMORY -1, MEMORY +1	press the pedals on this unit at the same time.	
BANK MODE *2	WAIT	When you switch to a different bank, the display changes but the memory does not change yet. Once you press a pedal on the unit, the bank and number are confirmed, which switches to the next memory.	
	ImmED	The unit switches to the next memory instantly when any pedal is pressed.	
BANK EXTENT MIN *2	01–50	Sets the lower limit for the banks.	
BANK EXTENT MAX *2	01–50	Sets the upper limit for the banks.	

\*1 Enabled when FOOT SWITCH MODE is set to UP/DOWN.

\*2 Enabled when FOOT SWITCH MODE is set to BANK/NUMBER.

## **MIDI** paremeters

## **MIDI SETTING**

These parameters let you make settings for using MIDI, with the VG-800 connected to an external MIDI device or a computer.

Parameter	Value	Explanation	
RX CHANNEL	This sets the MI messages.	DI channel used for receiving MIDI	
	Ch1-Ch16	Specifies the receive channel.	
	Sets the MIDI cl messages.	nannel used for transmitting MIDI	
TX CHANNEL	Ch1–Ch16	Specifies the transmit channel.	
	RX	Transmits on the same channel as the RX CHANNEL.	
DEVICE ID	This sets the MI receiving Exclus	DI Device ID used for transmitting and sive messages.	
	1–32	Sets the MIDI Device ID.	
		e jack from which to output the MIDI are received at the MIDI IN jack.	
	OFF	MIDI messages are not transmitted.	
MIDI IN THRU	MIDI OUT	Messages are transmitted from the MIDI OUT connector.	
	USB OUT	Messages are transmitted from the USB port.	
	USB/MIDI	Output from the USB port and the MIDI OUT connector.	
		ne jack from which to output the MIDI are received at the USB port.	
	OFF	MIDI messages are not transmitted.	
USB IN THRU	MIDI OUT	Messages are transmitted from the MIDI OUT connector.	
	USB OUT	Messages are transmitted from the USB port.	
	USB/MIDI	Output from the USB port and the MIDI OUT connector.	
	This setting determines the basis used for synchronizing the timing for effect modulation rates and other time-based parameters.		
	* When SYNC CLOCK is set to "AUTO", "MIDI-AUTO" or "USB-AUTO" and an external MIDI device is connected, this unit synchronizes with the tempo of the external MIDI device. In this case, the BPM parameter for the scene is disabled. When you want to use this unit's BPM setting as the basis for synchronization (by enabling the BPM parameter), set SYNC CLOCK to "INTERNAL".		
	signal from a	ronizing performances to the MIDI Clock n external MIDI device, timing problems mance may occur due to errors in the	
SYNC CLOCK		Operations are synchronized to MIDI clock messages received via MIDI or USB.	
	AUTO	However, operations are automatically synchronized to the VG-800's internal clock if it is unable to receive the external Clock.	
	INTERNAL	Operations are synchronized to the VG-800's internal Clock.	
		Operations are synchronized to the MIDI Clock received via MIDI.	
	MIDI-AUTO	However, operations are automatically synchronized to the VG-800's internal clock if it is unable to receive the external Clock.	

Parameter	Value	Explanation	
		Operations are synchronized to the USB Clock received via USB.	
SYNC CLOCK	USB-AUTO	However, operations are automatically synchronized to the VG-800's internal clock if it is unable to receive the external Clock.	
	Specifies whether MIDI clock will be output from the VG-800.		
CLOCK OUT	OFF	MIDI clock is not output.	
	ON	MIDI clock is output.	
		rogram change messages are output or nemory changes.	
PC OUT	OFF	MIDI data for MEMORY MIDI is not output (CC data for MEMORY MIDI is also not output).	
	ON	Program change messages are output.	
		m change message that's output when nories on the VG-800.	
TX PC MAP	FIX	Transmits a program change message that's set beforehand for each memory number, regardless of the memory settings.	
	MEMORY MIDI	Transmits the MIDI message for MEMORY MIDI (including CC messages) that's set for each memory.	
	memory corresp message that's that's specified	whether this unit switches to the ponding to the program change received, or switches to the memory in "PROGRAM MAP BANK1–BANK2" 00 receives a program change message.	
RX PC MAP	FIX	Switches to the memory that corresponds to the received program change message. In this case, "PROGRAM MAP BANK1– BANK2" is disabled.	
	PROG	Switches to the memory specified by "PROGRAM MAP BANK1–BANK2".	
DOWN CC# UP CC#		ntroller number when transmitting as as control change messages.	
CTL1 CC# CTL2 CC# CTL3 CC# CTL4 CC# CTL5 CC# EXP1 CC# EXP2 CC# GK VOL CC# GK SW1 CC# GK SW2 CC#	OFF	Control Change messages are not output.	
	CC#1–31, 64–95	Pedal operations are transmitted using the specified controller number. * DOWN CC#, UP CC#, CTL1 CC# are enabled when FOOT SW MODE (p. 52) is set to "UP/DOWN".	

## PROGRAM MAP BANK1-BANK2

You can freely set which program change message received by the VG-800 corresponds to which memory to switch to, when switching memories in response to a program change message transmitted by an external MIDI device.

Parameter	Value	Explanation	
PC#1-PC#128	01-1–50-3	Sets the memory number (from 01-1 to 50-3) that corresponds to the program change message.	

### **GUITAR TO MIDI/BASS TO MIDI**

Parameter	Value	Explanation	
		Sets the GUITAR TO MIDI/BASS TO MIDI function ON/OFF.	
ON/OFF	OFF, ON	When set to OFF, all MIDI messages related to GUITAR TO MIDI/BASS TO MIDI are no longer output.	
BASIC CHANNEL	Ch1–Ch10	Sets the MIDI transmit channel used by the GUITAR TO MIDI/BASS TO MIDI function.	
BEND THIN	OFF, ON	When set to ON, this reduces (thins out) the amount of pitch bend messages, which in turn reduces the overall MIDI data load.	
PC MASK	OFF, ON	When this is set to ON, bank select and program change messages for the GUITAR TO MIDI/BASS TO MIDI function are not transmitted when the scene changes.	
HOLD CONTROL	CTL1, CTL2, CTL3, CTL4, CTL5, GK SW1, GK SW2	Sets the controller used to control the hold function. * When this is set to "CTL1", you can't use this function while FOOT SW MODE (p. 52) is set to "BANK/	

## **FACTORY RESET paremeters**

Initializes the VG-800 to its factory-set condition.

#### MEMO

This initializes only the currently selected mode.

When performing a factory reset in guitar mode, the bass mode settings are not initialized.

Parameter	v Value Explanation	
	SYSTEM	Initializes the system parameters.
FROM, TO	01-1–50-3	The settings for memories 01-1 through 50-3 are initialized.

## **MODE SETTING**

You can select whether to connect a guitar or a bass guitar when using the VG-800.

When using a guitar, use guitar mode (GUITAR); and when using a bass guitar, use bass mode (BASS).

#### MEMO

- This is set to "GUITAR" when using the factory settings.
- The VG-800 starts up using the selected mode until the next time you switch modes.
- The parameter display may change depending on the mode you select.
- Memories are saved for guitar mode and bass mode respectively.

GUITAR MODE		CATEGORY	PARAMETER
			A:DELAY 1
CATEGORY	PARAMETER		A:DELAY 2
TUNER	ON/OFF		A:DELAY 3
TONER			A:DELAY 4
MASTER	BPM KEY		A:DELAY 5
MASTER			A:DELAY 6
	MEMORY LEVEL	INST:HARMONY:DUAL	A:DELAY 7
	BPM TAP		B:DELAY 1
			B:DELAY 2
TAP			B:DELAY 3
	FX1 DLY TAP		B:DELAY 4
	FX2 DLY TAP		B:DELAY 5
	FX3 DLY TAP		B:DELAY 6
			B:DELAY 7
INCT			(A)ON/OFF
INST			B:ON/OFF
			12STR TYPE
	NOR MIX LEVEL		12STR PITCH 1
	ON/OFF MODE		12STR PITCH 2
	MODE		12STR PITCH 3
			12STR PITCH 4
	PITCH 1		12STR PITCH 5
	PITCH 2		12STR PITCH 6
	PITCH 3		12STR PITCH 7
	PITCH 4		12STR FINE 1
	PITCH 5		12STR FINE 2
INST:ALT TUNE (A)	PITCH 6		12STR FINE 3
	PITCH 7		12STR FINE 4
	FINE 2		12STR FINE 5
	FINE 2	INST:12STR	12STR FINE 6
	FINE 3		12STR FINE 7
	FINE 4		12STR LEVEL 1
	FINE 5		12STR LEVEL 2
	FINE 6		12STR LEVEL 3
	FINE 7		12STR LEVEL 4
	ON/OFF		12STR LEVEL 5
	MODE		12STR LEVEL 6
			12STR LEVEL 7
	PITCH 1		12STR DELAY 1
	PITCH 2		12STR DELAY 2
	PITCH 3		12STR DELAY 3
	PITCH 4		12STR DELAY 4
	PITCH 5		12STR DELAY 5
INST:ALT TUNE B	PITCH 6		12STR DELAY 6
	PITCH 7		12STR DELAY 7
	FINE 2		ON/OFF
	FINE 2		BEND DEPTH 1
	FINE 3		BEND DEPTH 2
	FINE 4		BEND DEPTH 3
	FINE 5	INST:STR BEND (A)	BEND DEPTH 4
	FINE 6		BEND DEPTH 5
	FINE 7		BEND DEPTH 6
INST:HARMONY	(A)HARMO		BEND DEPTH 7
	B:HARMO		BEND CONTROL

CATEGORY	PARAMETER	CATEGORY	PARAMETER
	ON/OFF		ON/OFF
	BEND DEPTH 1		LOW CUT
	BEND DEPTH 2		LOW GAIN
	BEND DEPTH 3		LOW-MID FREQ
NST:STR BEND B	BEND DEPTH 4		LOW-MID Q
	BEND DEPTH 5		LOW-MID GAIN
	BEND DEPTH 6	INST:EQ B	HIGH-MID FREQ
	BEND DEPTH 7		HIGH-MID Q
	BEND CONTROL		HIGH-MID GAIN
	STRING LEVEL 1		HIGH GAIN
	STRING LEVEL 2		HIGH CUT
	STRING LEVEL 3		LEVEL
	STRING LEVEL 4		ON/OFF
	STRING LEVEL 5	INST:NS (A)	THRESHOLD
	STRING LEVEL 6		RELEASE
	STRING LEVEL 7		ON/OFF
ST:STRING(A)	STRING PAN 1	INST:NS B	THRESHOLD
	STRING PAN 2		RELEASE
	STRING PAN 3		TYPE
	STRING PAN 3		PU SELECT
	STRING PAN 5		PU SELECT UP
	STRING PAN 6	—	PU SELECT DOWN
	STRING PAN 7		VOLUME
	STRING LEVEL 1	INST:E.GTR	TONE
	STRING LEVEL 2		
	STRING LEVEL 3		SENS
	STRING LEVEL 4		DEPTH
	STRING LEVEL 5		ATTACK
	STRING LEVEL 6		RESONANCE
IST:STRING B	STRING LEVEL 7		DIRECT MIX
	STRING PAN 1	-	ТҮРЕ
	STRING PAN 2		BODY
	STRING PAN 3		ATTACK
	STRING PAN 4		PU SELECT
	STRING PAN 5		PU SELECT UP
	STRING PAN 6		PU SELECT DOWN
	STRING PAN 7	INST:ACOUSTIC	SENS
	A:POSITION LIMIT SW		COLOR
	A:POSITION LIMIT LOW		DECAY
STISTRINGIDUAL	A:POSITION LIMIT HIGH		BUZZ
ST:STRING:DUAL	B:POSITION LIMIT SW		RESONANCE
	B:POSITION LIMIT LOW		SUSTAIN
	B:POSITION LIMIT HIGH		VOLUME
	ON/OFF		TONE
	LOW CUT		MODE
	LOW GAIN		GUITAR SELECT
	LOW-MID FREQ	INST:DUAL GUITAR	A/B BALANCE
	LOW-MID Q		A:TYPE
	LOW-MID GAIN		B:TYPE
IST:EQ (A)	HIGH-MID FREQ		
	HIGH-MID Q		
	HIGH-MID GAIN		
	HIGH GAIN		
	HIGH CUT		
	LEVEL		

CATEGORY	PARAMETER	CATEGORY	PARAMETER
	A:PICKUP SELECT		A:VOLUME
	A:VOLUME		A:TONE
	A:TONE		A:REAR VOLUME
	A:TONE TYPE		A:FRONT VOLUME
	A:SENS		A:TONE TYPE
	A:DEPTH		A:SENS
	A:ATTACK		A:DEPTH
	A:RESONANCE		A:ATTACK
	A:DIRECT MIX		A:RESONANCE
NST:DUAL GTR:E.GTR	B:PICKUP SELECT		A:DIRECT MIX
	B:VOLUME	INST:DUAL GTR:E.BASS	B:VOLUME
	B:TONE		B:TONE
	B:TONE TYPE		B:REAR VOLUME
	B:SENS		B:FRONT VOLUME
	B:DEPTH		B:TONE TYPE
	B:ATTACK		B:SENS
	B:RESONANCE		B:DEPTH
	B:DIRECT MIX		B:ATTACK
	A:BODY		B:RESONANCE
	A:ATTACK		B:DIRECT MIX
	A:PICKUP SELECT		ТҮРЕ
	A:SENS		VOLUME
	A:COLOR		TONE
	A:DECAY		REAR VOLUME
	A:BUZZ		FRONT VOLUME
	A:RESONANCE	INST:E.BASS	ΤΟΝΕΤΥΡΕ
	A:SUSTAIN		SENS
	A:VOLUME		DEPTH
	A:TONE		ATTACK
NST:DUAL GTR:ACO	B:BODY		RESONANCE
	B:ATTACK		DIRECT MIX
	B:PICKUP SELECT		ТҮРЕ
	B:SENS		PU SELECT
	B:COLOR		PU SELECT UP
	B:DECAY		PU SELECT DOWN
	B:BUZZ		VOLUME
	B:RESONANCE		TONE
	B:SUSTAIN	INST:VIO GUITAR:GUITAR	ΤΟΝΕΤΥΡΕ
	B:VOLUME		SENS
	B:TONE		DEPTH
			ATTACK
			RESONANCE
			DIRECT MIX
			РІТСН
			GAIN
		INST:VIO GUITAR:HARMO	ATTACK

INST:VIO GUITAR:HARMO

INST:VIO GUITAR:FILTER

INST:VIO GUITAR:FILTER

INST:SYNTH

INST:SYNTH
INST:SYNTH

INST:SYNTH
INST:SYNTH
INST:SYNTH
INST:SYNTH
INST:SYNTH
INTS:SYNTH
IN

CATEGORY	PARAMETER	
	MODE	I
	COMP SW	
	CUTOFF	C
	RESONANCE	T
	ENV MOD SW	
	ENV MOD SENS	N
	ENV MOD ATTACK	
	PITCH SW	
	PITCH A	
	FINE A	т
INST:SYN:GR-300	РІТСН В	
	FINE B	
	DUET SW	
	SWEEP SW	
	SWEEP RISE	
	SWEEP FALL	
	VIBRATO SW	
	VIBRATO RATE	
	VIBRATO DEPTH	
	LOW CUT	
	HIGH CUT	
	CUTOFF	
	RESONANCE	
INST:SYN:SOLO	TOUCH SENS	
	COLOR	II
	SUSTAIN	"
	CUTOFF	
	RESONANCE	
INST:SYN:FILTER BASS	TOUCH SENS	
	DECAY	
	COLOR	
	ATTACK LENGTH	
	MOD TUNE	
INST:SYN:CRYSTAL	MOD DEPTH	
	ATTACK LEVEL	
	BODY LEVEL	
	SUSTAIN	
	FEET 16	
	FEET 5+1/3	
	FEET 8	II
	FEET 4	
INST:SYN:ORGAN	FEET 2+2/3	
	FEET 2	
	FEET 1+3/5	
	FEET 1+1/3	
	FEET 1	
	SUSTAIN	

#### MEMO

See "Common for GUITAR MODE/BASS MODE" (p. 61) for the other ASSIGN TARGET for GUITAR mode.

## BASS MODE

CATEGORY	PARAMETER
TUNER	ON/OFF
	BPM
MASTER	KEY
	MEMORY LEVEL
	врм тар
	DLY1 TAP
	DLY2 TAP
ТАР	FX1 DLY TAP
	FX2 DLY TAP
	FX3 DLY TAP
	ON/OFF
	ТҮРЕ
INST	INST LEVEL
	NOR MIX SW
	NOR MIX LEVEL
	ON/OFF
	MODE
	ТҮРЕ
	PITCH HIC
	PITCH 1st
	PITCH 2nd
	PITCH 3rd
INST:ALT TUNE (A)	PITCH 4th
	PITCH LowB
	FINE HIC
	FINE 1st
	FINE 2nd
	FINE 3rd
	FINE 4th
	FINE LowB
	ON/OFF
	MODE
	ТҮРЕ
	PITCH HIC
	PITCH 1st
	PITCH 2nd
	PITCH 3rd
INST:ALT TUNE B	PITCH 4th
	PITCH LowB
	FINE HIC
	FINE 1st
	FINE 2nd
	FINE 3rd
	FINE 4th
	FINE LowB
	(A)HARMO
INST:HARMONY	B:HARMO
	-

CATEGORY	PARAMETER	CATEGORY	PARAMETER
	A:DELAY HIC		STRING LEVEL HIC
	A:DELAY 1st		STRING LEVEL 1st
	A:DELAY 2nd		STRING LEVEL 2nd
	A:DELAY 3rd		STRING LEVEL 3rd
	A:DELAY 4th		STRING LEVEL 4th
	A:DELAY LoB		STRING LEVEL LOWB
NST:HARMONY:DUAL	B:DELAY HIC	INST:STRING(A)	STRING PAN HIC
	B:DELAY 1st		STRING PAN 1st
	B:DELAY 2nd		STRING PAN 2nd
	B:DELAY 3rd		STRING PAN 3rd
	B:DELAY 4th		STRING PAN 4th
	B:DELAY LoB		STRING PAN LowB
	(A)ON/OFF		STRING LEVEL HIC
	B:ON/OFF		STRING LEVEL 1st
	12STR TYPE		STRING LEVEL 2nd
	12STR PITCH HiC		STRING LEVEL 3rd
	12STR PITCH 1st		STRING LEVEL 4th
	12STR PITCH 2nd		STRING LEVEL LOWB
	12STR PITCH 3rd	INST:STRING B	STRING PAN HIC
	12STR PITCH 4th		STRING PAN 1st
	12STR PITCH LowB		STRING PAN 2nd
	12STR FINE HIC		STRING PAN 3rd
	12STR FINE 1st		STRING PAN 4th
	12STR FINE 2nd		STRING PAN LowB
	12STR FINE 3rd		A:POSITION LIMIT SW
ST:12STR	12STR FINE 4th		A:POSITION LIMIT LOW
51.12516	12STR FINE LowB		A:POSITION LIMIT LOW
	12STR LEVEL HIC	INST:STRING:DUAL	B:POSITION LIMIT SW
	12STR LEVEL 1st		B:POSITION LIMIT LIVEL
	12STR LEVEL 2nd		B:POSITION LIMIT HIGH
	12STR LEVEL 3rd		
	12STR LEVEL 4th		LOW CUT
	12STR LEVEL LowB		LOW GAIN
	12STR DELAY HIC		LOW-MID FREQ
	12STR DELAY 1st		LOW-MID Q
	12STR DELAY 2nd	INST:EQ (A)	LOW-MID GAIN
	12STR DELAY 3rd		HIGH-MID FREQ
	12STR DELAY 4th		HIGH-MID Q
	12STR DELAY LowB		HIGH-MID GAIN
	ON/OFF		HIGH GAIN
	BEND DEPTH HIC		HIGH CUT
	BEND DEPTH 1st		LEVEL
ST:STR BEND (A)	BEND DEPTH 2nd		ON/OFF
	BEND DEPTH 3rd		LOW CUT
	BEND DEPTH 4th		LOW GAIN
	BEND DEPTH LowB		LOW-MID FREQ
	BEND CONTROL		LOW-MID Q
	ON/OFF	INST:EQ B	LOW-MID GAIN
	BEND DEPTH HIC		HIGH-MID FREQ
	BEND DEPTH 1st		HIGH-MID Q
ST:STR BEND B	BEND DEPTH 2nd		HIGH-MID GAIN
	BEND DEPTH 3rd		HIGH GAIN
	BEND DEPTH 4th		HIGH CUT
	BEND DEPTH LowB		LEVEL
	BEND CONTROL		ON/OFF
		INST:NS (A)	THRESHOLD

CATEGORY	PARAMETER	CATEGORY	PARAMETER
INST:NS B	ON/OFF		A:MASTER VOLUME
	THRESHOLD		A:REAR VOLUME
	RELEASE		A:FRONT VOLUME
	ТҮРЕ		A:VOLUME
	MASTER VOLUME		A:TONE
	REAR VOLUME		A:REAR TONE
	FRONT VOLUME		A:FRONT TONE
	VOLUME		A:TREBLE
	TONE		A:BASS
	REAR TONE		A:PU SELECT
	FRONT TONE		A:TREBLE ON
	TREBLE		A:BASS ON
	BASS		A:RHYTHM/SOLO
	PU SELECT		A:TONE TYPE
NST:E.BASS	PU SELECT UP		A:SENS
	PU SELECT DOWN		A:DEPTH
	TREBLE ON		A:ATTACK
	BASS ON		A:RESONANCE
	RHYTHM/SOLO		A:DIRECT MIX
	TONE TYPE	INST:DUAL BSS:E.BASS	B:MASTER VOLUME
	SENS		B:REAR VOLUME
	DEPTH		B:FRONT VOLUME
	АТТАСК	_	B:VOLUME
	RESONANCE		B:TONE
			B:REAR TONE
	DIRECT MIX		
	VOLUME		B:FRONT TONE
	BODY		B:TREBLE
	RESONANCE		B:BASS
NST:AC BASS	SIZE		B:PU SELECT
	ATTACK		B:TREBLE ON
	BOTTOM		B:BASS ON
	BUZZ SENS		B:RHYTHM/SOLO
	DECAY		B:TONE TYPE
	MODE		B:SENS
	BASS SELECT		B:DEPTH
NST:DUAL BASS	A/B BALANCE		B:ATTACK
	A:TYPE		B:RESONANCE
	B:TYPE		B:DIRECT MIX
			A:VOLUME
			A:BODY
			A:RESONANCE
			A:SIZE
			A:ATTACK
			А:ВОТТОМ
			A:BUZZ SENS
		INST:DUAL BSS:AC BASS	A:DECAY
			B:VOLUME
			B:BODY
			B:RESONANCE
			B:SIZE
			B:ATTACK
			B:BOTTOM

B:BUZZ SENS B:DECAY

CATEGORY	PARAMETER	CATEGORY	PARAMETER
	A:PICKUP SELECT		OVERTONE
	A:VOLUME		АТТАСК
	A:TONE		POWER BEND
	A:TONE TYPE		SLIDE TIME
	A:SENS	INST:VIO BASS:FILTER	OCTAVE
	A:DEPTH		COLOR
	A:ATTACK		TOUCH SENS
	A:RESONANCE	—	LEAD EMPHASIS
	A:DIRECT MIX		DRY LEVEL
NST:DUAL BSS:E.GTR	B:PICKUP SELECT		TYPE
		INST:SYNTH	
	B:VOLUME		VOLUME
	B:TONE		MODE
	B:TONE TYPE		COMP SW
	B:SENS		CUTOFF
	B:DEPTH		RESONANCE
	B:ATTACK		ENV MOD SW
	B:RESONANCE		ENV MOD SENS
	B:DIRECT MIX		ENV MOD ATTACK
	ТҮРЕ		PITCH SW
	PU SELECT		PITCH A
	PU SELECT UP		FINE A
	PU SELECT DOWN	INST:SYN:ANALOG GR	PITCH B
	VOLUME		FINE B
	TONE		DUET SW
IST:E.GTR	TONE TYPE		SWEEP SW
	SENS		SWEEP RISE
	DEPTH		SWEEP FALL
	ATTACK		VIBRATO SW
	RESONANCE		VIBRATO RATE
	DIRECT MIX		VIBRATO DEPTH
	ТҮРЕ		
	MASTER VOLUME		HIGH CUT
	REAR VOLUME	INST:SYN:SOLO	CUTOFF
	FRONT VOLUME		RESONANCE
	VOLUME		TOUCH SENS
	TONE		COLOR
	REAR TONE		SUSTAIN
	FRONT TONE	INST:SYN:FILTER BASS	CUTOFF
	TREBLE		RESONANCE
	BASS		TOUCH SENS
	PU SELECT		DECAY
IST:VIO BASS:BASS	PU SELECT UP		COLOR
	PU SELECT DOWN	INST:SYN:CRYSTAL	ATTACK LENGTH
	TREBLE ON		MOD TUNE
	BASS ON		MOD DEPTH
	RHYTHM/SOLO		ATTACK LEVEL
	TONE TYPE		BODY LEVEL
	SENS		SUSTAIN
	DEPTH		FEET 16
	ATTACK		FEET 5+1/3
	RESONANCE		FEET 8
	DIRECT MIX		FEET 4
	PITCH	INST:SYN:ORGAN	FEET 2+2/3
IST:VIO BASS:HARMO	GAIN		FEET 2
	ATTACK		FEET 1+3/5
	DIRECT LEVEL		FEET 1+1/3
			FEET 1
			SUSTAIN

### MEMO

See "Common for GUITAR MODE/BASS MODE" (p. 61) for the other ASSIGN TARGET for BASS mode.

## Common for GUITAR MODE/BASS MODE

CATEGORY	PARAMETER
	ON/OFF
FX1, FX2, FX3	ТҮРЕ
FX1:AC RESONANCE FX2:AC RESONANCE FX3:AC RESONANCE	ТҮРЕ
	RESONANCE
	TONE
No.ne nebonnite	LEVEL
	FILTER MODE
	RATE
	DEPTH
FX1:AUTO WAH	EFFECT LEVEL
FX2:AUTO WAH FX3:AUTO WAH	FREQUENCY
	RESONANCE
	WAVEFORM
	DIRECT MIX
	MODE
	RATE
	DEPTH
	PRE-DELAY
	EFFECT LEVEL
	WAVEFORM
	LOW CUT
	HIGH CUT
	DIRECT LEVEL
	RATE1
	DEPTH1
FX1:CHORUS	PRE-DELAY1
FX2:CHORUS	EFFECT LEVEL1
FX3:CHORUS	WAVEFORM1
	LOW CUT1
	HIGH CUT1
	RATE2
	DEPTH2
	PRE-DELAY2
	EFFECT LEVEL2
	WAVEFORM2
	LOW CUT2
	HIGH CUT2
	OUTPUT MODE
	RATE
FX1:CLASSIC-VIBE FX2:CLASSIC-VIBE	DEPTH
FX3:CLASSIC-VIBE	EFFECT LEVEL
	ТУРЕ
	SUSTAIN
FX1:COMPRESSOR	ATTACK
FX2:COMPRESSOR	EFFECT LEVEL
FX3:COMPRESSOR	DIRECT MIX
	TONE

CATEGORY	PARAMETER
	SENS
	DEPTH
FX1:DEFRETTER	TONE
FX2:DEFRETTER	EFFECT LEVEL
FX3:DEFRETTER	АТТАСК
	RESONANCE
	DIRECT MIX
	SENS
FX1:DEFRETTER BASS	АТТАСК
FX2:DEFRETTER BASS	TONE
FX3:DEFRETTER BASS	EFFECT LEVEL
	DIRECT MIX
	ТҮРЕ
	TIME
	FEE dBACK
FX1:DELAY	EFFECT LEVEL
FX2:DELAY	HIGH CUT
FX3:DELAY	DIRECT LEVEL
	TAP TIME
	TRIGGER
	CARRY OVER
	D1 TIME
	D1 FEE dBACK
	D1 HIGH CUT
FX1:DELAY:DUAL	D1 EFFECT LEVEL
FX2:DELAY:DUAL FX3:DELAY:DUAL	D2 TIME
TAS.DELAT.DOAL	D2 FEE dBACK
	D2 HIGH CUT
	D2 EFFECT LEVEL
FX1:DELAY:MOD	MOD RATE
FX2:DELAY:MOD FX3:DELAY:MOD	MOD DEPTH
	MODE
FX1:DELAY:TWIST	RISETIME
FX2:DELAY:TWIST	FALLTIME
FX3:DELAY:TWIST	FADE TIME
	RATE
	DEPTH
	RESONANCE
FX1:FLANGER	MANUAL
FX2:FLANGER	SEPARATION
FX3:FLANGER	LOW CUT
	HIGH CUT
	EFFECT LEVEL
	DIRECT MIX
	RATE
	DEPTH
	RESONANCE
FX1:FLANGER BASS	MANUAL
FX2:FLANGER BASS	SEPARATION
FX3:FLANGER BASS	LOW CUT
	HIGH CUT
	EFFECT LEVEL
	DIRECT LEVEL
	VOLUME MIN
FX1:FOOT VOLUME	VOLUME MAX
FX2:FOOT VOLUME FX3:FOOT VOLUME	VOLUME CURVE
	PEDAL POSITION

CATEGORY	PARAMETER	CATEGORY	PARAMETER
FX1:GRAPHIC EQ FX2:GRAPHIC EQ FX3:GRAPHIC EQ	100 Hz		LOW CUT
	200 Hz		LOW GAIN
	400 Hz		LOW-MID FREQ
	800 Hz		LOW-MID Q
	1.6 kHz	FX1:PARAMETRIC EQ	LOW-MID GAIN
	3.2 kHz	FX2:PARAMETRIC EQ	HIGH-MID FREQ
	6.4 kHz	FX3:PARAMETRIC EQ	HIGH-MID Q
	LEVEL		HIGH-MID GAIN
	VOICE		HIGH GAIN
	HR1:HARMONY		HIGH CUT
	HR2:HARMONY		LEVEL
	HR1:LEVEL		РІТСН
X1:HARMONIST	HR1:PRE-DELAY	FX1:PEDAL BEND	PEDAL POSITION
X3:HARMONIST	HR1:FEE dBACK	FX2:PEDAL BEND	EFFECT LEVEL
	DIRECT LEVEL	FX3:PEDAL BEND	DIRECT MIX
	HR2:LEVEL		TYPE
	HR2:PRE-DELAY		RATE
	MODE	FX1:PHASER	DEPTH
	VOWEL1	FX2:PHASER	RESONANCE
X1:HUMANIZER	VOWEL2	FX3:PHASER	MANUAL
X2:HUMANIZER	SENS		STEP RATE
X3:HUMANIZER	RATE		EFFECT LEVEL
	DEPTH		DIRECT MIX
	MANUAL		VOICE
	EFFECT LEVEL		PS1:PITCH
	BAND		PS2:PITCH
X1:ISOLATOR X2:ISOLATOR	RATE		DIRECT LEVEL
X3:ISOLATOR	DEPTH		PS1:MODE
	BAND LEVEL	FX1:PITCH SHIFTER	PS1:FINE
	ТҮРЕ	FX2:PITCH SHIFTER	PS1:PRE-DELAY
	THRESHOLD	FX3:PITCH SHIFTER	PS1:LEVEL
X1:LIMITER	RATIO		PS1:FEE dBACK
X3:LIMITER	EFFECT LEVEL		PS2:MODE
	ATTACK		PS2:FINE
	RELEASE		PS2:PRE-DELAY
X1:LO-FI	BIT DEPTH		PS2:LEVEL
X2:LO-FI	SAMPLE RATE		ТҮРЕ
X3:LO-FI	BALANCE		TIME
X1:OCTAVE	-20CT		PRE-DELAY
X2:OCTAVE	-10CT		EFFECT LEVEL
X3:OCTAVE	DIRECT LEVEL	FX1:REVERB	LOW CUT
	-20CT	FX2:REVERB	HIGH CUT
X1:OCTAVE BASS	-10CT	FX3:REVERB	DENSITY
X3:OCTAVE BASS	DIRECT LEVEL		DIRECT LEVEL
	TYPE		CARRY OVER
	WAVEFORM		SPRING SENS
X1:PAN	RATE		INTELLIGENT
X2:PAN			
X3:PAN	DEPTH	FX1:RING MOD	FREQUENCY
	EFFECT LEVEL	FX2:RING MOD	FREQ MOD RATE
	POSITION	FX3:RING MOD	FREQ MOD DEPTH
			EFFECT LEVEL

CATEGORY	PARAMETER
	SPEED SELECT
	RATE SLOW
	RATE FAST
FX1:ROTARY	DEPTH
FX2:ROTARY	RISE TIME
FX3:ROTARY	FALL TIME
	EFFECT LEVEL
	DIRECT MIX
	SENS
FX1:SITAR SIM	
FX2:SITAR SIM FX3:SITAR SIM	EFFECT LEVEL
	RESONANCE
	BUZZ
	DIRECT MIX
	PATTERN
	RATE
FX1:SLICER	TRIGGER
FX2:SLICER	EFFECT LEVEL
FX3:SLICER	ATTACK
	DUTY
	DIRECT MIX
FX1:SLOW GEAR	SENS
FX2:SLOW GEAR	RISE TIME
FX3:SLOW GEAR	EFFECT LEVEL
FX1:SLOW GEAR BASS	SENS
FX2:SLOW GEAR BASS	RISE TIME
FX3:SLOW GEAR BASS	EFFECT LEVEL
FX1:SOUND HOLD	TRIGGER
FX2:SOUND HOLD	RISE TIME
FX3:SOUND HOLD	EFFECT LEVEL
	FILTER MODE
	POLARITY
	SENS
FX1:TOUCH WAH	FREQUENCY
FX2:TOUCH WAH	RESONANCE
FX3:TOUCH WAH	DECAY
	EFFECT LEVEL
	DIRECT MIX
	FILTER MODE
	POLARITY
	SENS
FX1:TOUCH WAH BASS	FREQUENCY
FX2:TOUCH WAH BASS	RESONANCE
FX3:TOUCH WAH BASS	DECAY
	EFFECT LEVEL
	WAVEFORM
FX1:TREMOLO	
FX2:TREMOLO	
EX3-TREMOLO	EFFECT LEVEL
FX3:TREMOLO	BIDE CE MUN
FX3:TREMOLO	DIRECT MIX
FX3:TREMOLO	RATE
	RATE DEPTH
FX1:VIBRATO	RATE
FX3:TREMOLO FX1:VIBRATO FX2:VIBRATO FX3:VIBRATO FX3:VIBRATO	RATE DEPTH
FX1:VIBRATO FX2:VIBRATO	RATE DEPTH TRIGGER

CATEGORY	PARAMETER
	ТҮРЕ
	PEDAL POSITION
FX1:WAH	PEDAL MIN
FX2:WAH	PEDAL MAX
FX3:WAH	
	DIRECT MIX
	ON/OFF
	ТҮРЕ
	GAIN
	SAG
	RESONANCE
	LEVEL
	BASS
	MIDDLE
	TREBLE
AMP1	PRESENCE
AMP2	BRIGHT
	GAIN SW
	SOLO SW
	SOLO LEVEL
	SP TYPE
	MIC TYPE
	MIC DISTANCE
	MIC POSITION
	ON/OFF
	ТҮРЕ
	SUSTAIN
COMPRESSOR	ATTACK
	EFFECT LEVEL
	DIRECT MIX
	TONE
	ON/OFF
	ТҮРЕ
	DRIVE
	TONE
DISTORTION	LEVEL
	воттом
	DIRECT MIX
	SOLO SW
	SOLO LEVEL
	ON/OFF
	LOW CUT
	LOW GAIN
	LOW-MID PREQ
EQ1	LOW-MID GAIN
EQ2	HIGH-MID FREQ
	HIGH-MID Q
	HIGH-MID GAIN
	HIGH GAIN
	HIGH CUT

CATEGORY	PARAMETER
	ON/OFF
	MODE
	RATE
	DEPTH
	PRE-DELAY
	EFFECT LEVEL
	WAVEFORM
	LOW CUT
	HIGH CUT
	DIRECT LEVEL
	RATE1
	DEPTH1
CHORUS	PRE-DELAY1
	EFFECT LEVEL1
	WAVEFORM1
	LOW CUT1
	HIGH CUT1
	RATE2
	DEPTH2
	PRE-DELAY2
	EFFECT LEVEL2
	WAVEFORM2
	LOW CUT2
	HIGH CUT2
	OUTPUT MODE
	ON/OFF
	DELAY TIME
	FEE dBACK
DELAY1	EFFECT LEVEL
DELAY2	HIGH CUT
	DIRECT LEVEL
	TAP TIME
	CARRY OVER
	ON/OFF
	ТҮРЕ
	TIME
	PRE-DELAY
	EFFECT LEVEL
REVERB	LOW CUT
	HIGH CUT
	DENSITY
	DIRECT LEVEL
	CARRY OVER
	SPRING SENS
	ON/OFF
NOISE SUPPRESSOR1	THRESHOLD
NOISE SUPPRESSOR2	RELEASE
	DETECT
	VOLUME MIN
FOOT VOLUME1	VOLUIME MAX
FOOT VOLUME2	VOLUME CURVE
	PEDAL POSITION
	ON/OFF
	MODE
SEND/RETURN1	MODE SEND LEVEL
SEND/RETURN1 SEND/RETURN2	
	SEND LEVEL

CATEGORY	PARAMETER
DIVIDER	MODE
DIVIDER	CH SELECT
	A/B BALANCE
MIXER	A:PAN
	B:PAN
	A/B BALANCE
BALANCER 1	A:PAN
	B:PAN
	A/B BALANCE
BALANCER 2	A:PAN
	B:PAN
	ON/OFF
NORMAL INPUT	LEVEL
MIDI	MIDI CC#
MIDI	MIDI PC#