BOSS

GUITAR EFFECTS PROCESSOR

GT-1000

Parameter Guide

Contents

MEMO

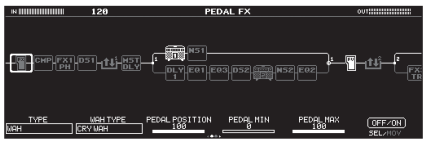
- MONO This effect sound is mono.
- STEREO This effect sound is output with two channels.
- MONO › STEREO These effects take a mono input and output it on two channels.

Basic Procedure for Effect Editing

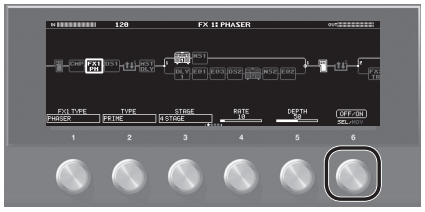
The edit screens show the block configuration (effect chain) of all effects provided by the GT-1000, as well as the output and send/return. You can edit from this effect chain display by selecting the block that you want to edit.

1. Press the [EFFECT] button.

The edit screen (effect chain) appears.



2. Turn knob [6] to select the block that you want to edit.

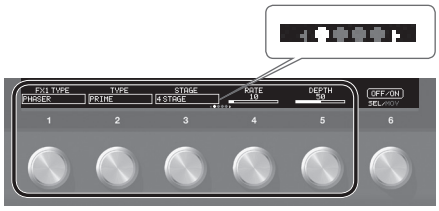


The selected block is enclosed by a thick frame.

* By pressing knob [6] you can turn the selected effect on/off. Effects that are off are shown in gray.

ON OFF

3. Use knobs [1]–[5] to adjust the parameters that are shown below the screen.



Use the PAGE [◄] [►] buttons to switch between the parameters that you want to edit. The current page is indicated in the lower center of the screen.

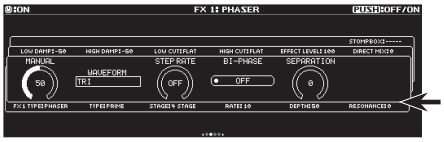
* The number of parameters and pages differs depending on the effect.

Editing while viewing all parameters

From the edit screen, you can long-press knob [6] to see a list of all parameters of the selected block. You can edit the parameters from this list.

1. Turn knobs [1]–[6] to edit the value of the parameters shown in the screen.

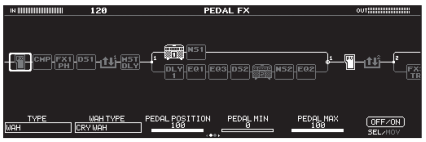
Use the PAGE [◄] [►] buttons to switch between lists of parameters.



Use the PAGE [◄] [►] buttons to switch

Effect Placement

By moving blocks such as effects, output, and send/return, you can freely change the order in which the effects are placed, or arrange them in parallel.



Changing the placement of effects etc.

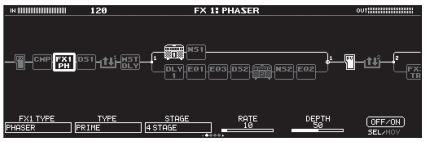
1. Press the [EFFECT] button.

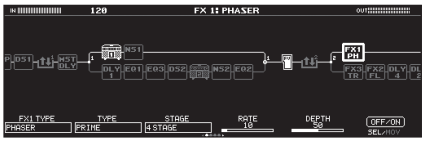
The effect chain is shown.

2. Use knob [6] to select the block that you want to move.

3. While pressing knob [6], turn it left or right.

The selected block moves left or right.

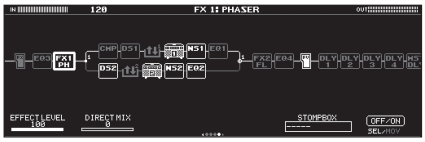




Using STOMPBOX

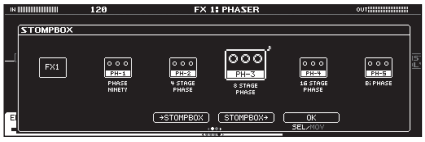
Your preferred settings for each effect can be saved as a "STOMPBOX." You can select these saved settings and use them to create your sound just as though you were connecting compact pedal effects. The STOMPBOX data is common to all patches; this means that all patches using the same STOMPBOX can be edited simultaneously.

1. **Press the [EFFECT] button.**
2. **Use the [6] knob to choose the effect you're going to edit.**
3. **Use the PAGE [◄] [►] buttons to move to the last page.**



4. **Press the [5] knob.**

   The STOMPBOX select window appears.



5. **Turn knob [5] to select the STOMPBOX type.**
6. **Press the [5] knob.**

Editing the STOMPBOX

1. **Turn knobs [1]–[5] to edit the parameter value that are shown in the screen.**

   Use the PAGE [◄] [►] buttons to switch between lists of parameters.

Reading STOMPBOX Settings into a Patch

1. **Press the [EFFECT] button.**
2. **Use the [6] knob to choose the effect you're going to edit.**
3. **Use the PAGE [◄] [►] buttons to move to the last page.**
4. **Press the [5] knob.**

   The STOMPBOX select window appears.
5. **Turn knob [5] to select the STOMPBOX type.**
6. **Press the [4] knob.**

   The contents of the STOMPBOX are recalled into the patch.

   You can edit the patch without modifying the contents of the STOMPBOX.

Writing Patch Settings into a STOMPBOX

1. **Press the [EFFECT] button.**
2. **Use the [6] knob to choose the effect you're going to save.**
3. **Use the PAGE [◄] [►] buttons to move to the last page.**
4. **Press the [5] knob.**

   The STOMPBOX select window appears.
5. **Press the [3] knob.**
6. **Turn knob [1] to select the writing-destination STOMPBOX.**
7. **Use knobs [3]–[6] to name the STOMPBOX.**

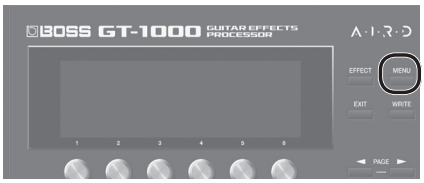
Reference

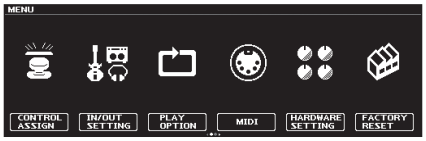
For details on naming the STOMPBOX, refer to "Editing a name" (p. 50).

Basic MENU Operations

Here you can make settings that are common to the entire GT-1000 (system parameters).

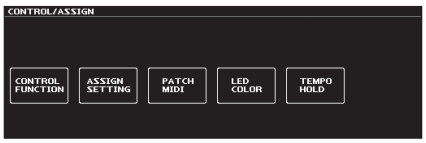
1. **Press the [MENU] button.**





2. **Press a knob [1]–[6] to select the item that you want to edit.**

   A sub-menu appears.



   You can use the PAGE [◄] [►] buttons to see additional items.
3. **Once again press a knob [1]–[6] to select the item that you want to edit.**
4. **Use knobs [1]–[6] to select parameters or edit the values.**

   Use the PAGE [◄] [►] buttons to switch between lists of parameters.

COMPRESSOR

STEREO MONO

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.
TYPE	BOSS COMP MONO	This models a BOSS CS-3.
	X-COMP MONO	This uses MDP (Multi-Dimensional Processing) to obtain a consistently natural playing feel and sound that responds to the pitch range and dynamics of your phrase.
	D-COMP MONO	This models a MXR DynaComp.
	ORANGE MONO	This is modeled on the sound of the Dan Armstrong ORANGE SQUEEZER.
	STEREO COMP STEREO	This selects a stereo compressor.
	X-BASS COMP MONO	This is a compressor for bass that uses MDP (Multi-Dimensional Processing).
THRESHOLD *1	0–100	Adjust this as appropriate for the input signal. When the input signal level exceeds this threshold level, compression will be applied.
SUSTAIN *2	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.
LEVEL	0–100	Adjusts the volume.
TONE	-50–+50	Adjusts the tone.
RATIO	1:1–INF:1	Selects the compression ratio.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

*1 Setting available when TYPE is set to X-BASS COM.

*2 Not shown if TYPE is set to X-BASS COMP.

DISTORTION 1, 2

MONO

This effect distorts the sound to create long sustain.

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
TYPE	Refer to DISTORTION 1, 2 TYPE	
DRIVE	0–120	Adjusts the depth of distortion.
TONE	-50–+50	Adjusts the tone.
LEVEL	0–100	Adjusts the volume of the effect sound.
BOTTOM	-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	The tone to one suitable for solos.
SOLO LEVEL	0–100	Adjusts the volume level when the SOLO SW is ON.

DISTORTION 1, 2 TYPE

This is a list of distortion types that can be selected for DISTORTION 1, 2

Type	Explanation
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 BOOST	This not only functions as a booster, but also produces a clean tone that has punch even when used alone.
TREBLE BOOST	This is a booster that has bright characteristics.
CRUNCH	A lustrous crunch sound with an added element of amp distortion.
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.
BLUES OD	This is a crunch sound of the BOSS BD-2. This produces distortion that faithfully reproduces the nuances of picking.
OD-1	This models the sound of the BOSS OD-1. This produces sweet, mild distortion.
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.
CENTA OD	This models a KLON CENTAUR.
RAT	This models a Proco RAT.
GUV DS	This models a Marshall GUV' NOR.
DIST+	This models the sound of the MXR DISTORTION+.
METAL ZONE	This models the sound of the BOSS MT-2. It produces a wide range of metal sounds, from old style to slash metal.
HM-2	This models the sound of the BOSS HM-2. It produces distinctive cranked-up distortion sound with compression.
METAL CORE	This is the sound of the BOSS ML-2 which is ideal for high speed metal riffs.
'60S FUZZ	This models a FUZZFACE. It produces a fat fuzz sound.
MUFF FUZZ	This models an Electro-Harmonix Big Muff π.
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 DRIVE	With this effect, distortion is applied only to the high frequency sounds, and not to the sounds in the low frequency range.
X-BASS OD	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.+.

AIRD PREAMP 1, 2

MONO

This is an amp that uses BOSS's proprietary cutting-edge AIRD (Augmented Impulse Response Dynamics) technology to simulate every detail of a guitar amp as a unified instrument, including the response and operation of the guitar amp's circuit and the interactions between all parts that affect the sound.

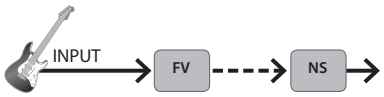
Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
TYPE	Refer to AIRD PREAMP TYPE	
GAIN	0–120	Adjusts the distortion of the amp.
SAG	-10–+10	Adjusts the amount by which compression changes in response to the power amp.
RESONANCE	-10–+10	Adjusts the amount by which dynamics is affected 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	Turns the bright setting on/off. * The BRIGHT setting is available only when certain AIRD PREAMP TYPE settings are selected.
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. So, normally set it to MIDDLE.
SOLO SW	OFF, ON	The tone to one suitable for solos.
SOLO LEVEL	0–100	Adjusts the volume level when the SOLO SW is ON.

AIRD PREAMP TYPE List

Category	Type	Explanation
TYPE (ADVANCED AMP)	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.
TYPE (CLASSICS)	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 4 x 10" 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.
TYPE (ADVANCED AMP)	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.
TYPE (CLASSICS)	SVT BASS	This models the Ampeg SVT.

NOISE SUPPRESSOR 1, 2 STEREO

This effect reduces the noise and hum picked up by guitar pickups. 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.

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
THRESHOLD	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. * High settings for the threshold parameter may result in there being no sound when you play with your guitar volume turned down.
RELEASE	0–100	Adjusts the time from when the noise suppressor begins to function until the noise level reaches "0."
DETECT	This controls the noise suppressor based on the volume level for the point specified in Detect.	
	INPUT	Input volume from input jack. * Ordinarily, DETECT should be set to "INPUT."
	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."  (Spatial-type effect)
	FV OUT	Volume after passing through Foot Volume. * If you want to use FV (Foot Volume) in place of the guitar's volume control, you need to set DETECT to "FV OUT."  Foot Volume

EQUALIZER 1–4 STEREO

Adjusts the tone.

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
TYPE	PARAMETRIC	You can adjust the tone character in four bands.
	GRAPHIC	You can adjust the tone character in ten bands.

PARAMETRIC

Adjusts the tonal quality. You can adjust the tone character in four bands.

Parameter	Value	Explanation
LOW GAIN	-20–+20dB	Adjusts the tone for the low frequency range.
HIGH GAIN	-20–+20dB	Adjusts the tone for the high frequency range.
LEVEL	-20–+20dB	Adjusts the overall volume level of the equalizer.
LOW-MID FREQ	20.0Hz–16.0kHz	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–+20dB	Adjusts the low-middle frequency range tone.
HIGH-MID FREQ	20.0Hz–16.0kHz	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–+20dB	Adjusts the low-middle frequency range tone.
LOW CUT	FLAT, 20.0Hz–16.0kHz	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	20.0Hz–16.0kHz 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.

GRAPHIC

Adjusts the tonal quality. You can adjust the tone character in ten bands.

Parameter	Value	Explanation
LEVEL	-20–+20dB	Adjusts the overall volume level of the equalizer.
31.5Hz	-20–+20dB	Adjust the volume of each frequency band.
63Hz		
125Hz		
250 Hz		
500 Hz		
1 kHz		
2 kHz		
4 kHz		
8 kHz		
16 kHz		

DELAY 1–4

STEREO

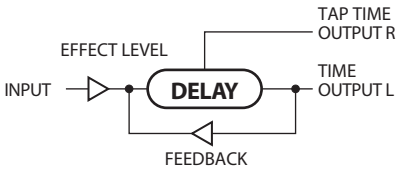
This is a delay with a maximum delay time of 2,000 ms. This effect is a useful way of adding depth to the sound.

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
TIME	1ms–2000ms, BPM ♪– 𝅗𝅥	Adjusts the delay time. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
FEEDBACK	0–100	Adjusts the volume that is returned to the input. Higher settings will result in more delay repeats.
HIGH CUT	20.0Hz–20.0kHz 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	0–120	Adjusts the volume of the delay sound.
DIRECT LEVEL	0–100	Adjusts the volume of the direct sound.
BPM	40–250	Adjusts the BPM value for each patch. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."

MASTER DELAY

MONO STEREO / MONO / STEREO

This produces a variety of delay sounds ranging from simple effects to richly idiosyncratic sounds.

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
TYPE	This selects which type of delay. * If you switch patches with the Type set to DUAL and then begin to play immediately after the patches change, you may be unable to attain the intended effect in the first portion of what you perform. * The stereo effect is cancelled if a mono effect or AIRD PREAMP is connected after a stereo delay effect.	
	MONO (MONO)	This is a simple mono delay.
	PAN (MONO STEREO)	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. 
	STEREO 1 (MONO STEREO)	The direct sound is output from the left channel, and the effect sound is output from the right channel.
	STEREO2 (STEREO)	This is a stereo-in/out delay.
	ANALOG (MONO)	This gives a mild analog delay sound. The delay time can be set within the range of 12 to 1,200 ms.
	ANALOG ST (MONO STEREO)	This gives a mild analog delay sound. The delay time can be set within the range of 12 to 1,200 ms. The direct sound is output from the left channel, and the effect sound is output from the right channel.
	TAPE (STEREO)	Provides the characteristic wavering sound of the tape echo.
	REVERSE (MONO)	This produces an effect where the sound is played back in reverse.
	SHIMMER (MONO)	Delay with pitch-shifted sound mixed in.
	DUAL (MONO STEREO)	A delay comprising two different delays connected either in series or in parallel.
	WARP (STEREO)	Produces a dream-like sound.
	TWIST (STEREO)	Produces an aggressive sense of rotation. Using this in conjunction with distortion will produce an even wilder sense of rotation.
	SPACE ECHO (STEREO)	This models the sound of the Roland RE-201.
	TAPE ECHO PX (STEREO)	This models the sound of the Maestro Echoplex.
	BIN DRUM ECHO (STEREO)	This models the sound of the Binson Echorec2.

COMMON

* The COMMON parameters are not shown if TYPE is set to TWIST.

Parameter	Value	Explanation
TIME	1ms–2000ms, BPM ♪–	Adjusts the delay time. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
FEEDBACK	0–100	This sets the amount of delay sound returned to the input. A higher value will increase the number of the delay repeats.
HIGH CUT	20.0Hz–20.0kHz 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	0–120	Adjusts the volume of the delay sound.
MOD RATE	0–100	Adjusts the modulation rate of the delay sound.
MOD DEPTH	0–100	Adjusts the modulation depth of the delay sound.
DUCK SENS	0–100	Adjusts the sensitivity at which the volume is automatically adjusted according to the input. Higher values allow the adjustment to occur in response to lower volumes.
DUCK PRE DEPTH	0–100	The volume being "input" to the delay is automatically reduced when the input sound is loud. The amount of reduction increases as this setting approaches 100.
DUCK POST DEPTH	0–100	The volume being "output" to the delay is automatically reduced when the input sound is loud. The amount of reduction increases as this setting approaches 100.
DIRECT LEVEL	0–100	Adjusts the volume of the direct sound.
BPM	40–250	Adjusts the BPM value for each patch. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."

PAN

Parameter	Value	Explanation
TAP TIME	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%).

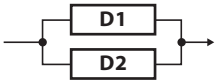
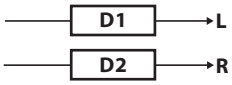
TAPE

Parameter	Value	Explanation
HEAD	1, 1+2, 1+3, 2+3, 1+2+3	Selects the combination playback heads. Playback heads 2/3 provide delay times that are two times or three times as long as playback head 1.

SHIMMER

Parameter	Value	Explanation
PITCH	-24–+24	Lets you freely specify the amount of pitch shift for the delay.
PITCH BAL	0–100	Adjusts the balance between the pitch-shifted sound that is input to the delay and the direct sound.
PITCH FEEDBACK	0–100	Adjusts the amount of feedback for the delay that is applied to the direct sound.

DUAL

Parameter	Value	Explanation
MODE	SERIES	This is a delay comprising two different delays connected in series. 
	PARALLEL	This is a delay comprising two delays connected in parallel. 
	L/R	This delay lets you specify the L and R channels independently. 
D1 TYPE **D2 TYPE**	MONO	This is a simple mono 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.
	ANALOG	This gives a mild analog delay sound.
	TAPE	This setting provides the characteristic wavering sound of the tape echo.
D1 TIME **D2 TIME**	1ms–2000ms, BPM ♪–	Adjusts the delay time. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
D1 FEEDBACK **D2 FEEDBACK**	0–100	Adjusts the amount of feedback of the DELAY 1 (or DELAY 2). A higher value will increase the number of the delay repeats.
D1 HIGH CUT **D2 HIGH CUT**	20.0Hz–20.0kHz, 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.
D1 EFFECT LEVEL **D2 EFFECT LEVEL**	0–120	Adjusts the volume of the DELAY 1 (or DELAY 2).

WARP

Parameter	Value	Explanation
TRIGGER	OFF, ON	If this is ON, the WARP effect is applied.
LEVEL	0–100	Adjusts the volume of the effect sound.

TWIST

Parameter	Value	Explanation
MODE	RISE → FALL	Rotation stops when you switch TRIGGER from ON to OFF.
	RISE → FADE	When you switch TRIGGER from ON to OFF, fade-out occurs while continuing the rotation.
TRIGGER	OFF, ON	The TWIST effect is applied when you turn this ON.
RISE TIME	0–100	This parameter adjusts the amount of time it is to take for the effect to transition to the maximum.
FALL TIME	0–100	This parameter adjusts the amount of time it is to take for the effect to transition to the original.
LEVEL	0–100	Adjusts the volume of the effect sound.

SPACE ECHO

Parameter	Value	Explanation
HEAD	1, 1+2, 1+3, 2+3, 1+2+3	Selects the combination playback heads. Playback heads 2/3 provide delay times that are two times or three times as long as playback head 1.
WOW & FLUTTER	0–100	Adjusts the wow & flutter.

TAPE ECHO PX

Parameter	Value	Explanation
WOW & FLUTTER	0–100	Adjusts the wow & flutter.

BIN DRUM ECHO

Parameter	Value	Explanation
HEAD	1, 2, 3, 4, 1+2, 2+3, 3+4, 1+3, 2+4, 1+2+3, 2+3+4, 1+2+3+4	Selects the combination playback heads.
SELECTOR	ECHO, REPEAT, SWELL	Selects the operating mode of the delay. Depending on mode that's selected, the FEEDBACK will not work in some cases.
WOW & FLUTTER	0–100	Adjusts the wow & flutter.

CHORUS

MONO→STEREO MONO

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

COMMON

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
TYPE	Selection for the chorus mode.	
	MONO	This chorus effect outputs the same sound from both L channel and R channel.
	STEREO 1	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	0–100, BPM	Adjusts the rate of the chorus effect. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
DEPTH	0–100	Adjusts the depth of the chorus effect. * To use it for doubling effect, set the value to 0.
PRE-DELAY	0.0ms–40.0ms	Adjusts the time needed for the effect sound to be output after the direct 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).
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
WAVEFORM	TRI	Produces a typical chorus effect. 
	SINE	Produces a deeper sense of modulation. 
LOW CUT	FLAT, 20.0Hz–20.0kHz	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	20.0Hz–20.0kHz, 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 LEVEL	0–100	Adjusts the volume of the direct sound. Setting this to 0 cuts the direct sound.
BPM	40–250	Adjusts the BPM value for each patch. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."

DUAL

Parameter	Value	Explanation
RATE **RATE 2**	0–100, BPM	Adjusts the rate of the chorus effect.
DEPTH **DEPTH 2**	0–100	Adjusts the depth of the chorus effect. * To use it for doubling effect, set the value to 0.
PRE-DELAY 1 **PRE-DELAY 2**	0.0ms–40.0ms	Adjusts the time needed for the effect sound to be output after the direct 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).
EFFECT LEVEL 1 **EFFECT LEVEL 2**	0–100	Adjusts the volume of the effect sound.
WAVEFORM **WAVEFORM 2**	TRI	Produces a typical chorus effect. 
	SINE	Produces a deeper sense of modulation. 
LOW CUT 1 **LOW CUT 2**	FLAT, 20.0Hz–20.0kHz	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 1 **HIGH CUT 2**	20.0Hz–20.0kHz, 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 LEVEL	0–100	Adjusts the volume of the direct sound. Setting this to 0 cuts the direct sound.
BPM	40–250	Adjusts the BPM value for each patch. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."
OUTPUT MODE	MONO	This setting is appropriate for mono output.
	STEREO	Produces a rich spaciousness when stereo output is used.

FX1–FX3

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

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
TYPE	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.

Effect Name	Explanation
AC GUITAR SIM	This effect simulates the tonal character of an acoustic guitar.
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.
AUTO WAH	This changes the filtering over a periodic cycle, providing an automatic wah effect.
CHORUS	In this effect, a slightly detuned sound is added to the original sound to add depth and breadth.
CHORUS BASS	
CLASSIC-VIBE	Although this resembles a phaser effect, it also provides a unique undulation that you can't get with a regular phaser.
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.
DEFRETTER	This simulates a fretless guitar.
DEFRETTER BASS	This simulates a fretless bass.
FEEDBACKER	Generates feedback performance.
FLANGER	The flanging effect gives a twisting, jet-airplane-like character to the sound.
FLANGER BASS	
HARMONIST	Harmonist is an effect where the amount of shifting is adjusted according to an analysis of the guitar input, allowing you to create harmony based on diatonic scales.
HUMANIZER	This can create human vowel-like sounds.
OCTAVE	This adds a note one octave lower and a note two octaves lower, creating a richer sound.
OCTAVE BASS	
OVERTONE	This effect uses MDP technology to add new harmonics to the sound, producing resonance and richness that was not present in the original 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.
PHASER	By adding varied-phase portions to the direct sound, the phaser effect gives a whooshing, swirling character to the sound.
PITCH SHIFTER	This effect changes the pitch of the original sound (up or down) within a range of two octaves.
RING MOD	This creates a bell-like sound by ring-modulating the guitar sound with the signal from the internal oscillator. The sound can be unmusical and lack distinctive pitches.
ROTARY	This produces an effect like the sound of a rotary speaker.
SITAR SIM	This simulates the sound of the sitar.
SLICER	This consecutively interrupts the sound to create the impression that a rhythm backing phrase is being played.
SLOW GEAR	This produces a volume-swell effect ("violin-like" sound).
SLOW GEAR BASS	
SOUND HOLD	You can have sound played on the guitar be held continuously. This effect allows you to perform the melody in the upper registers while holding a note in the lower registers.
S-BEND	Applies intense bending.
TOUCH WAH	You can produce a wah effect with the filter changing in response to the guitar level.
TOUCH WAH BASS	You can produce a wah effect with the filter changing in response to the bass level.
TREMOLO	Tremolo is an effect that creates a cyclic change in volume.
VIBRATO	This effect creates vibrato by slightly modulating the pitch.

031AC.GUITAR SIMULATOR

MONO

This effect simulates the tonal character of an acoustic guitar.

Parameter	Value	Explanation
BODY	0–100	Adjusts the body resonance.
LOW	-50–0–+50	Specifies the sense of volume for the low-frequency range.
HIGH	-50–0–+50	Specifies the sense of volume for the high-frequency range.
LEVEL	0–100	Specifies the volume of the effect.

AC RESONANCE

MONO

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.

Parameter	Value	Explanation
TYPE	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

MONO

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

Parameter	Value	Explanation
FILTER MODE	Selects the wah mode.	
	LPF	Low pass filter. Passes only the low-frequency region.
	HPF	High pass filter. Passes only the high-frequency region.
	BPF	Band pass filter. Passes only the specified frequency region.
RATE	0–100, BPM	Adjusts the frequency (speed) of the change. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
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 way in which the wah effect applies to the area around the center frequency.
WAVEFORM	TRI, SINE	Selects a wave type.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
BPM	40–250	Adjusts the BPM value for each patch. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."

CHORUS

MONO STEREO MONO

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

COMMON

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
TYPE	Selection for the chorus mode.	
	MONO (MONO)	This chorus effect outputs the same sound from both L channel and R channel.
	STEREO 1 (MONO STEREO)	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 (STEREO)	This is a stereo chorus effect that adds different chorus sounds to L channel and R channel.
	DUAL (STEREO)	This lets you apply chorus independently to the L and R channels.
	PRIME (STEREO)	This is BOSS's proprietary chorus sound. It provides spaciousness and depth that were not previously obtainable.
	CE-1 CHORUS (MONO STEREO)	The chorus sound of the CE-1.
	CE-1 VIBRATO (MONO STEREO)	The vibrato sound of the CE-1.
RATE	0–100, BPM	Adjusts the rate of the chorus effect. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
DEPTH	0–100	Adjusts the depth of the chorus effect. * To use it for doubling effect, set the value to 0.
PRE-DELAY *1	0.0ms–40.0ms	Adjusts the time needed for the effect sound to be output after the direct 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).
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
WAVEFORM *1	TRI	Produces a typical chorus effect. 
	SINE	Produces a deeper sense of modulation. 

Parameter	Value	Explanation
LOW CUT *1	FLAT, 20.0Hz–20.0kHz	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 *1	20.0Hz–20.0kHz, 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 LEVEL	0–100	Adjusts the volume of the direct sound. Setting this to 0 cuts the direct sound.
BPM	40–250	Adjusts the BPM value for each patch. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."

*1 Not shown if TYPE is set to CE-1 CHORUS or CE-1 VIBRATO.

DUAL

Parameter	Value	Explanation
RATE **RATE 2**	0–100, BPM ♪– ♪	Adjusts the rate of the chorus effect. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
DEPTH **DEPTH 2**	0–100	Adjusts the depth of the chorus effect. * To use it for doubling effect, set the value to 0.
PRE-DELAY 1 **PRE-DELAY 2**	0.0ms–40.0ms	Adjusts the time needed for the effect sound to be output after the direct 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).
EFFECT LEVEL 1 **EFFECT LEVEL 2**	0–100	Adjusts the volume of the effect sound.
WAVEFORM **WAVEFORM 2**	TRI	Produces a typical chorus effect. 
	SINE	Produces a deeper sense of modulation. 
LOW CUT 1 **LOW CUT 2**	FLAT, 20.0Hz–20.0kHz	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 1 **HIGH CUT 2**	20.0Hz–20.0kHz, 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 LEVEL	0–100	Adjusts the volume of the direct sound. Setting this to 0 cuts the direct sound.
BPM	40–250	Adjusts the BPM value for each patch. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."
OUTPUT MODE	MONO	This setting is appropriate for mono output.
	STEREO	Produces a rich spaciousness when stereo output is used.

PRIME

Parameter	Value	Explanation
SWEETNESS	0–100	Higher values produce a more enveloping sound.
BELL	0–100	Higher values produce a more brilliant sound.
OUTPUT MODE	MONO	This setting is appropriate for mono output.
	STEREO	Produces a rich spaciousness when stereo output is used.

CE-1 CHORUS, CE-1 VIBRATO

Parameter	Value	Explanation
PREAMP SW	OFF, ON	Specifies whether the CE-1's preamp is simulated (ON) or not simulated (OFF).
PREAMP GAIN	0–100	Adjusts the gain of the preamp. Higher settings will produce distortion.
PREAMP LEVEL	0–100	Adjusts the volume of the preamp.

CHORUS

MONO▸STEREO MONO

This is a chorus effect for bass.

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
TYPE	Selection for the chorus mode.	
	MONO (MONO)	This chorus effect outputs the same sound from both L channel and R channel.
	STEREO 1 (MONO▸STEREO)	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 (STEREO)	This is a stereo chorus effect that adds different chorus sounds to L channel and R channel.
RATE	0–100, BPM	Adjusts the rate of the chorus effect. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
DEPTH	0–100	Adjusts the depth of the chorus effect. * To use it for doubling effect, set the value to 0.
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
LOW CUT *1	FLAT, 20.0Hz–20.0kHz	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 *1	20.0Hz–20.0kHz, 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.
BPM	40–250	Adjusts the BPM value for each patch. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."

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
MODE	CHORUS	Direct sound and effect sound are mixed and output.
	VIBRATO	Only effect sound is output.
RATE	0–100, BPM	Adjusts the rate of the effect. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
DEPTH	0–100	Adjusts the depth of the effect.
EFFECT LEVEL	0–100	Adjusts the tone.
BPM	40–250	Adjusts the BPM value for each patch. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."

COMPRESSOR

STEREO MONO

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.
TYPE	BOSS COMP (MONO)	This models a BOSS CS-3.
	X-COMP (MONO)	This uses MDP to provide a consistently natural playing feel and sound that responds to the pitch range and dynamics of your phrases.
	D-COMP (MONO)	This models a MXR DynaComp.
	ORANGE (MONO)	This is modeled on the sound of the Dan Armstrong ORANGE SQUEEZER.
	STEREO COMP (STEREO)	This selects a stereo compressor.
	X-BASS COMP (MONO)	This is a compressor for bass that uses MDP.
THRESHOLD *1	0–100	Adjust this as appropriate for the input signal. When the input signal level exceeds this threshold level, compression will be applied.
SUSTAIN *2	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.
LEVEL	0–100	Adjusts the volume.
TONE	-50–+50	Adjusts the tone.
RATIO	1:1–INF:1	Selects the compression ratio.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

*1 Setting available when TYPE is set to X-BASS COM.

*2 Not shown if TYPE is set to X-BASS COMP.

DEFRETTER

MONO

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 rate 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.
ATTACK	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

MONO

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.

FEEDBACKER

MONO

Generates feedback performance.

* Note that the notes you want to apply feedback to must be played singly and cleanly.

Parameter	Value	Explanation
MODE	NORMAL	Analyzes the pitch of the guitar sound being input, and then creates a feedback sound.
	OSC	An artificial feedback sound will be created internally. When OSC is selected, the effect is activated after a single note is played and the note stabilizes. A feedback effect is created when the effect switches on; the feedback disappears when the OSC effect switches off.
TRIGGER	OFF, ON	Feedback is applied if this is turned ON.
DEPTH *1	0–100	Adjusts the ease with which feedback will occur when the FEEDBACKER is on.
RISE TIME *2	0–100	This determines the time needed for the volume of the feedback sound to reach its maximum from the moment the effect is turned on.
OCT RISE TIME *2	0–100	This determines the time needed for the volume of the one octave higher feedback sound to reach its maximum from the moment the effect is turned on.
FEEDBACK *2	0–100	Adjusts the volume of the feedback sound.
OCT FEEDBACK*2	0–100	Adjusts the volume of the one octave higher feedback sound.
VIB RATE *2	0–100	Adjusts the rate of the vibrato when the FEEDBACKER is on.
VIB DEPTH *2	0–100	Adjusts the depth of the vibrato when the FEEDBACKER is on.

*1 MODE=NORMAL only

*2 MODE=OSC only

FLANGER/FLANGER BASS

MONO STEREO

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

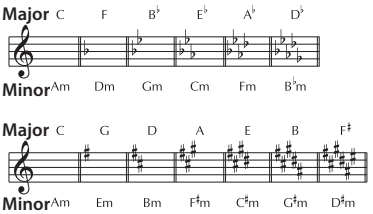
Parameter	Value	Explanation
RATE	0–100, BPM ♩–	This sets the rate of the flanging effect. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
DEPTH	0–100	Determines the depth of the flanging effect.
RESONANCE	0–100	Determines the amount of resonance (feedback). 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.
TURBO	OFF, ON	If this is "ON," a more intense effect is produced.
WAVEFORM	TRI, SINE	Selects the type of wave.
STEP RATE	OFF, 0–100, BPM ♩–	Adjusts the rate of the step function which varies the rotation in a step-wise manner. Higher settings make the change occur in smaller steps. Turn this "OFF" if you don't want to use the step function.
SEPARATION	0, 15, 30, 45, 60, 75, 90, 105, 120, 135, 150, 165, 180	Adjusts the diffusion. The diffusion increases as the value increases.
EFFECT LEVEL	0–100	Adjusts the volume of the flanger.
LOW DAMP	-100–0	Adjusts the amount of feedback for the low-frequency region.
HIGH DAMP	-100–0	Adjusts the amount of feedback for the high-frequency region.
LOW CUT	FLAT, 20.0Hz–20.0kHz	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	20.0Hz–20.0kHz, 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.
BPM	40–250	Adjusts the BPM value for each patch. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."

HARMONIST

MONO STEREO / MONO

Harmonist is an effect where the amount of shifting is adjusted according to an analysis of the guitar 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 the guitar's TONE knob and pickup type.

Parameter	Value	Explanation
VOICE	Selects the number of voices for the pitch shift sound.	
	1VOICE MONO	One-voice pitch-shifted sound output in mono.
	2MONO MONO	Two-voice pitch-shifted sound (HR1, HR2) output in mono.
	2STEREO MONO STEREO	Two-voice pitch-shifted sound (HR1, HR2) output through left and right channels.
HR1:HARMONY **HR2:HARMONY**	-2oct–+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.
KEY	C (Am)– B (G#m)	The key setting corresponds to the key of the song (♯, ♭) as follows. 
HR1:LEVEL **HR2:LEVEL**	0–100	Adjusts the volume of the harmony sound.
HR1:PRE-DELAY **HR2:PRE-DELAY**	0–300ms, BPM ♪–	Adjusts the time from when the direct sound is heard until the harmonist sounds are heard. Normally you can leave this set at 0 ms. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
HR1:FEEDBACK	0–100	Adjusts the feedback amount of the harmonist sound.
DIRECT LEVEL	0–100	Adjusts the volume of the direct sound.
BPM	40–250	Adjusts the BPM value for each patch. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."

USER SCALE

* Effective with USER selected for HARM parameter.

Parameter	Value
C	▼▼C–▼C–C–▲C–▲▲C
D♭	▼▼D♭–▼D♭–D♭–▲D♭–▲▲D♭
D	▼▼D–▼D–D–▲D–▲▲D
E♭	▼▼E♭–▼E♭–E♭–▲E♭–▲▲E♭
E	▼▼E–▼E–E–▲E–▲▲E
F	▼▼F–▼F–F–▲F–▲▲F
F♯	▼▼F♯–▼F♯–F♯–▲F♯–▲▲F♯
G	▼▼G–▼G–G–▲G–▲▲G
A♭	▼▼A♭–▼A♭–A♭–▲A♭–▲▲A♭
A	▼▼A–▼A–A–▲A–▲▲A
B♭	▼▼B♭–▼B♭–B♭–▲B♭–▲▲B♭
B	▼▼B–▼B–B–▲B–▲▲B

Specify the note name of the output sound. 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

MONO

This can create human vowel-like sounds.

Parameter	Value	Explanation
MODE	This sets the mode that switches the vowels.	
	PICKING	It changes from VOWEL 1 to VOWEL 2 along with the picking. The time spent for the change is adjusted with the rate.
	AUTO	By adjusting the rate and depth, two vowels (VOWEL 1 and VOWEL 2) can be switched automatically.
VOWEL 1	a, e, i, o, u	Selects the first vowel.
VOWEL 2	a, e, i, o, u	Selects the second vowel.
SENS *1	0–100	Adjusts the sensitivity of the humanizer. 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	0–100, BPM ♩	Adjusts the cycle for changing the two vowels. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
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, VOWEL 1 and VOWEL 2 are switched in the same length of time. When it is set to lower than 50, the time for VOWEL 1 is shorter. When it is set to higher than 50, the time for VOWEL 1 is longer.
LEVEL	0–100	Adjusts the tone.
BPM	40–250	Adjusts the BPM value for each patch. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."

*1 Setting available when MODE is set to PICKING.

*2 Setting available when MODE is set to AUTO.

OCTAVE

MONO

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

Parameter	Value	Explanation
TYPE	MONO	Adds a note one octave lower and a note two octaves lower than the input. This supports mono input.
	POLY	Adds a note one octave lower than the input. This supports polyphonic input.
-2OCT *1	0–100	Adjusts the volume of the sound two octave below.
-1OCT *1	0–100	Adjusts the volume of the sound one octaves below.
DIRECT LEVEL	0–100	Adjusts the volume of the direct sound.
RANGE *2	0–100	This selects the register to which the effect is applied.
OCTAVE LEVEL *2	0–100	Adjusts the volume of the sound one octave below.

*1 Setting available when TYPE is set to MONO.

*2 Setting available when TYPE is set to POLY.

OCTAVE BASS

MONO

This is an OCTAVE effect for bass.

Parameter	Value	Explanation
-2OCT	0–100	Adjusts the volume of the sound two octave below.
-1OCT	0–100	Adjusts the volume of the sound one octaves below.
DIRECT LEVEL	0–100	Adjusts the volume of the direct sound.

OVERTONE

MONO ▸ STEREO MONO

This effect uses MDP technology to add new harmonics to the sound, producing resonance and richness that was not present in the original sound.

Parameter	Value	Explanation
LOWER LEVEL	0–100	Adjusts the volume of the harmonic one octave below.
UPPER LEVEL	0–100	Adjusts the volume of the harmonic one octave above.
UNISON LEVEL	0–100	Adjusts the volume of added sound whose pitch is slightly shifted relative to the direct sound.
DIRECT LEVEL	0–100	Adjusts the volume of the direct sound.
DETUNE	0–100	Adjusts the amount of the detune effect that adds depth to the sound.
OUTPUT MODE	MONO, STEREO	Selects the type of output.
LOW	-50–+50	Adjusts the tonal character of the low-frequency range.
HIGH	-50–+50	Adjusts the tonal character of the high-frequency range.

PAN

STEREO

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
RATE	0–100, BPM	Adjusts the frequency (speed) of the change. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
DEPTH	0–100	Adjusts the depth of the effect.
WAVEFORM	0–100	Adjusts changes in volume level. A higher value will steepen wave's shape.
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. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."

PHASER

MONO › STEREO

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

Parameter	Value	Explanation
TYPE	Selects the PHASER type.	
	PRIME	An original BOSS phaser. This provides modulation that is not obtainable from previous units.
	SCRIPT	Models the MXR Phase 90 which was manufactured during the '70s.
STAGE *1	2, 4, 8, 16, 24STAGE	Selects the number of stages that the phaser effect will use.
RATE	0–100, BPM	This sets the rate of the phaser effect. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
DEPTH	0–100	Determines the depth of the phaser effect.
RESONANCE *1	0–100	Determines the amount of resonance (feedback). Increasing the value will emphasize the effect, creating a more unusual sound.
MANUAL *1	0–100	Adjusts the center frequency of the phaser effect.
WAVEFORM *1	TRI, SINE	Selects the type of wave.
STEP RATE *1	OFF, 0–100, BPM	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. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
BI-PHASE *1	OFF, ON	Specifies whether the two phase shift circuits are connected in series (ON) or not (OFF).
SEPARATION *1	0, 15, 30, 45, 60, 75, 90, 105, 120, 135, 150, 165, 180	Adjusts the diffusion. The diffusion increases as the value increases.
LOW DAMP *1	-100–0	Adjusts the amount of feedback for the low-frequency region.
HIGH DAMP *1	-100–0	Adjusts the amount of feedback for the high-frequency region.
LOW CUT *1	FLAT, 20.0Hz–20.0kHz	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 *1	20.0Hz–20.0kHz, 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.
BPM	40–250	Adjusts the BPM value for each patch. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."

*1 Setting available when TYPE is set to PRIME.

PITCH SHIFTER

MONO▸STEREO MONO

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

Parameter	Value	Explanation
VOICE	Selects the number of voices for the pitch shift sound.	
	1VOICE MONO	One-voice pitch-shifted sound output in mono.
	2MONO MONO	Two-voice pitch-shifted sound (PS1, PS2) output in mono.
	2STEREO MONO▸STEREO	Two-voice pitch-shifted sound (PS1, PS2) output through left and right channels.
PS1:PITCH PS2:PITCH	-24–+24	Adjusts the amount of pitch shift (the amount of interval) in semitone steps.
DIRECT LEVEL	0–100	Adjusts the volume of the direct sound.
PS1:MODE PS2:MODE	Selection for the pitch shifter 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.
	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 PS2:FINE	-50–+50	Make fine adjustments to the interval. The amount of the change in the Fine 100 is equivalent to that of the Pitch 1.
PS1:PRE-DELAY PS2:PRE-DELAY	0ms–300ms, BPM ♪– 𝅗𝅥	Adjusts the time from when the direct sound is heard until the pitch shifted sounds are heard. Normally you can leave this set at 0 ms. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
PS1:LEVEL PS2:LEVEL	0–100	Adjusts the volume of the pitch shifter.
PS1:FEEDBACK	0–100	Adjusts the feedback amount of the pitch shift sound.
BPM	40–250	Adjusts the BPM value for each patch. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."

RING MOD.

This creates a bell-like sound by ring-modulating the guitar 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 sound is not detected correctly. We recommend that you use this with single-note playing.
FREQUENCY	0–100	Adjusts the frequency of the internal oscillator.
FREQ MOD RATE	0–100, BPM 𝅗𝅥– ♪	Adjusts the rate at which the internal oscillator is modulated. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
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. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."

ROTARY

MONO▸STEREO

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).
SLOW RATE	0–100, BPM	This parameter adjusts the SPEED SELECT of rotation when set to "SLOW."
FAST RATE	0–100, BPM	This parameter adjusts the SPEED SELECT of rotation when set to "FAST."
EFFECT LEVEL	0–100	Adjusts the volume.
RISE TIME	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."
MIC DISTANCE	0–100	Adjusts the distance between the horn/rotor and the mic.
ROTOR/HORN	100:0–0:100	Adjusts the volume balance between the horn and rotor.
DRIVE	0–100	Adjusts the amount of distortion in the preamp.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
BPM	40–250	Adjusts the BPM value for each patch. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."

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	This adjusts the tone. 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

STEREO

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

Parameter	Value	Explanation
PATTERN	P1–P20	Select the slice pattern that will be used to cut the sound.
RATE	0–100, BPM	Adjust the rate at which the sound will be cut. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
TRIGGER	OFF, ON	When you switch this from OFF to ON, the rhythm pattern returns to its beginning. • When the patch is written, the TRIGGER parameter is stored in the OFF state.
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
ATTACK	0–100	Adjusts the volume of the attacks for the slice pattern.
DUTY	1–99	Adjusts the duration of the sound for the slice pattern.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
BPM	40–250	Adjusts the BPM value for each patch. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."

SLOW GEAR/SLOW GEAR BASS

STEREO

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.
RISE TIME	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

MONO

You can have sound played on the guitar 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
TRIGGER	OFF, ON	Switches the hold sound on and off. Normally, this is controlled with the CTL pedals. • It is assumed that this parameter will be assigned to the footswitch. • Patches are written with the HOLD parameter set to Off.
RISE TIME	0–100	Adjusts how rapidly the Sound Hold sound is produced.
EFFECT LEVEL	0–120	Adjusts the volume of the hold sound.

S-BEND

MONO

Applies intense bending.

Parameter	Value	Explanation
TRIGGER	OFF, ON	The effect is applied when you switch this from OFF to ON. When the patch is written, this parameter is stored in the OFF state.
PITCH	-3oct, -2oct, -1oct, +1oct, +2oct, +3oct, +4oct	Adjusts the amount of pitch shift in octave steps.
RISE TIME	0–100	This parameter adjusts the amount of time it is to take for the effect to transition to the maximum.
FALL TIME	0–100	This parameter adjusts the amount of time it is to take for the effect to transition to the original.

TOUCH WAH/TOUCH WAH BASS

MONO

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

Parameter	Value	Explanation
FILTER MODE	Selects the wah mode.	
	LPF	Low pass filter. Passes only the low-frequency region.
	HPF	High pass filter. Passes only the high-frequency region.
	BPF	Band pass filter. Passes only the specified frequency region.
POLARITY	Selects the direction in which the filter will change in response to the input.	
	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. 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.
RESONANCE	0–100	Adjusts the way in which the wah effect applies to the area around the center frequency. 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

STEREO

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

Parameter	Value	Explanation
RATE	0–100, BPM	Adjusts the frequency (speed) of the change. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
DEPTH	0–100	Adjusts the depth of the effect.
WAVEFORM	0–100	Adjusts changes in volume level. A higher value will steepen wave's shape.
EFFECT LEVEL	0–100	Adjusts the volume.
TRIGGER	OFF, ON	Turns the tremolo on/off.
RISE TIME	0–100	Specifies the time from when trigger turns on until the specified tremolo effect is obtained.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
BPM	40–250	Adjusts the BPM value for each patch. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."

VIBRATO

STEREO

This effect creates vibrato by slightly modulating the pitch.

Parameter	Value	Explanation
RATE	0–100, BPM	Adjusts the rate of the vibrato. * When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.
DEPTH	0–100	Adjusts the depth of the vibrato.
COLOR	0–100	Higher settings produce a more complex modulation.
EFFECT LEVEL	0–100	Adjusts the volume.
TRIGGER	OFF, ON	This selects on/off of the vibrato.
RISE TIME	0–100	This sets the time passing from the moment the Trigger is turned on until the set vibrato is obtained.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
BPM	40–250	Adjusts the BPM value for each patch. * BPM (beats per minute) indicates the number of quarter note beats that occur each minute * When you have an external MIDI device connected, the MASTER BPM synchronizes to the external MIDI devices tempo, making it impossible to set the MASTER BPM. To enable setting of the MASTER BPM, set "SYNC CLOCK" (p. 41) to "INTERNAL."

REVERB

MONO STEREO

This effect adds reverberation to the sound.

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
TYPE	This selects the reverb type. Various different simulations of space are offered.	
	HALL 1	Simulates the reverberation in a concert hall. Provides clear and spacious reverberations.
	HALL 2	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.
	ROOM1	Simulates the reverberation in a small room. Provides warm reverberations.
	ROOM2	Simulates the reverberation of a room larger than ROOM1.
	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.
	SPRING	This simulates the sound of a guitar amp's built-in spring reverb.
	SHIMMER	Simulates reverberation with a distinctively sparkling high-frequency range.
	DUAL	Allows you to use two reverbs simultaneously.
	TERA ECHO	This effect uses MDP technology to create a unique ambience and a spaciousness that changes according to your picking dynamics.

COMMON

Parameter	Value	Explanation
TIME *1	0.1s–10.0s	Adjusts the length (time) of reverberation.
TONE	-50–0–+50	Adjusts the tonal character of the reverb.
DENSITY *1	1–10	Adjusts the density of the reverb sound.
EFFECT LEVEL	0–100	Adjusts the volume of the reverb sound.
PRE-DELAY	0ms–200ms	Adjusts the time until the reverb sound appears.
LOW CUT *1	FLAT, 20.0Hz–20.0kHz	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 *1	20.0Hz–20.0kHz, 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.
LOW DAMP *1	-50–0–+50	Adjusts the amount of attenuation for the low frequency region.
HIGH DAMP *1	-50–0–+50	Adjusts the amount of attenuation for the high frequency region.
MOD RATE *1	0–100	Adjusts the speed at which the reverb sound is modulated.
MOD DEPTH *1	0–100	Adjusts the depth to which the reverb sound is modulated.
DUCK SENS *1	0–100	Adjusts the sensitivity at which the volume is automatically adjusted according to the input. Higher values allow the adjustment to occur in response to lower volumes.
DUCK PRE DEPTH *1	0–100	When the input sound is loud, this automatically reduces the volume that is being input to the reverb and delay. As this setting approaches 100, the input volume reduction is applied more deeply.
DUCK POST DEPTH *1	0–100	When the input sound is loud, this automatically reduces the volume that is being output from the reverb and delay. As this setting approaches 100, the output volume reduction is applied more deeply.
DIRECT LEVEL	0–100	Adjusts the volume of the direct sound.

*1 This is not shown if TYPE is set to TERA ECHO.

SHIMMER

Parameter	Value	Explanation
PITCH 1 **PITCH 2**	-24–+24	Adjusts the amount of pitch shift.
LEVEL 1 **LEVEL 2**	0–100	Adjusts the volume of the pitch shifter.

DUAL

Parameter	Value	Explanation
TYPE1 **TYPE2**	HALL, PLATE, ROOM	This selects the reverb type.
TIME1 **TIME2**	0.1–10.0s	Adjusts the length (time) of reverberation.
TONE 1 **TONE 2**	-50–+50	Adjusts the tonal character of the reverb.
EFFECT LEVEL 1 **EFFECT LEVEL 2**	0–100	Adjusts the volume of the reverb sound.
DENSITY1 **DENSITY2**	1–10	Adjusts the density of the reverb sound.
PRE-DELAY 1 **PRE-DELAY 2**	0ms–200ms	Adjusts the time until the reverb sound appears.
LOW CUT 1 **LOW CUT 2**	FLAT, 20.0Hz–20.0kHz	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 1 **HIGH CUT 2**	20.0Hz–20.0kHz, 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.

TERA ECHO

Parameter	Value	Explanation
MODE	Selects the mode of the effect sound.	
	MONO (MONO)	The L and R channels will both output the same sound.
	STEREO 1 (MONO › STEREO)	The R channel outputs the direct sound, and the L channel outputs the effect sound.
	STEREO2 (STEREO)	The effect is applied separately to the L and R channels.
SPREAD TIME	0–100	Adjusts the length of the effect sound.
FEEDBACK	0–100	Adjusts the decay of the effect sound.
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
TONE	-50–+50	Adjusts the tone.
DIRECT LEVEL	0–100	Adjusts the volume of the direct sound.
TRIGGER	OFF, ON	The effect sound is held when you turn this on. • Patches are written with the parameter set to Off.

PEDAL FX

MONO

You can control the wah effect or get a pitch bend effect in real time by adjusting the GT-1000's expression pedal or the expression pedal connected to the CTL 4, 5/EXP 2 jack or CTL 6, 7/EXP 3 jack.

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
TYPE	PEDAL BEND	This lets you use the pedal to get a pitch bend effect. * Because of the need to analyze the pitch, chords (two or more sounds played simultaneously) cannot be played.
	WAH	You can control the wah effect in real time by adjusting the GT-1000's expression pedal or the expression pedal connected to the CTL 4, 5/EXP 2 jack or CTL 6, 7/EXP 3 jack.

PEDAL BEND

MONO

Parameter	Value	Explanation
PITCH	-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.

WAH

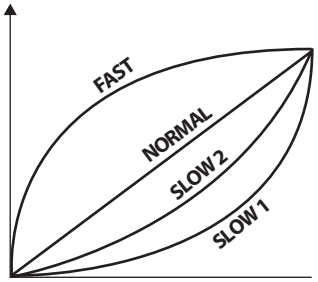
MONO

Parameter	Value	Explanation
WAH TYPE	Selects the type of wah.	
	CRY WAH	This models the sound of the CRY BABY wah pedal popular in the '70s.
	VO WAH	This models the sound of 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.
	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.
PEDAL POSITION	0–100	Adjusts the position of the wah pedal. * This parameter is used after it's been assigned to an expression pedal or similar controller.
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.

FOOT VOLUME

STEREO

This is a volume control effect.
Normally, this is controlled with the GT-1000's expression pedal or the expression pedal connected to the CTL 4, 5/EXP 2 jack or CTL 6, 7/EXP 3 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 
PEDAL POSITION	0–100	Adjusts the volume.

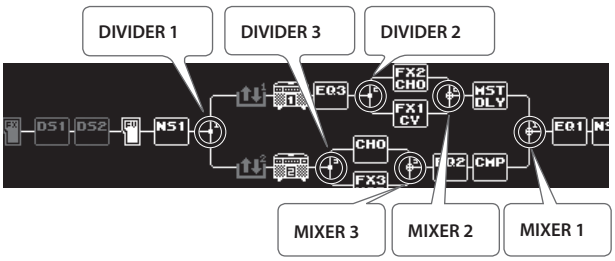
DIVIDER 1–3

STEREO

Within the effect chain, the point where the signal is split into channels "A" and "B" is called the "divider," and the point where the two signals are recombined is called the "mixer."

You can use the divider to switch between channels "A" and "B," to assign strongly picked notes and softly picked notes to different channels, or to assign different frequency bands of your guitar sound to different channels.

The mixer lets you adjust the volume balance of channels "A" and "B," place them in the stereo field, or slightly delay the sound of channel "B" to produce a spacious sound.



Parameter	Value	Explanation
MODE	SINGLE	Use only one channel, either "A" or "B."
	DUAL	Use the two channels "A" and "B."
CH SELECT *1	A, B	Selects the channel to use.
A:DYNAMIC *2 **B:DYNAMIC *2**	OFF	DYNAMIC will not be used.
	POLAR+	Only notes picked more strongly than the DYNA SENS setting will be output.
	POLAR-	Only notes picked more softly than the DYNA SENS setting will be output.
A:DYNA SENS *2 **B:DYNA SENS *2**	0–100	Specifies the picking sensitivity.
A:FILTER *2 **B:FILTER *2**	OFF	The filter will not be used.
	LPF	Only the region below the cutoff frequency will be output.
	HPF	Only the region above the cutoff frequency will be output.
A:CUTOFF FREQ *2 **B:CUTOFF FREQ *2**	100Hz, 125Hz, 160Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz	Cutoff frequency

*1 Setting available when MODE is set to SINGLE.

*2 Setting available when MODE is set to DUAL.

Exchanging the preamp settings between channels

Here's how to exchange the preamp settings between channels A and B.

1. **Press the [EFFECT] button.**
2. **Turn knob [6] to select the DIVIDER that you want to edit.**
3. **Press the [3] knob.**

MIXER 1–3

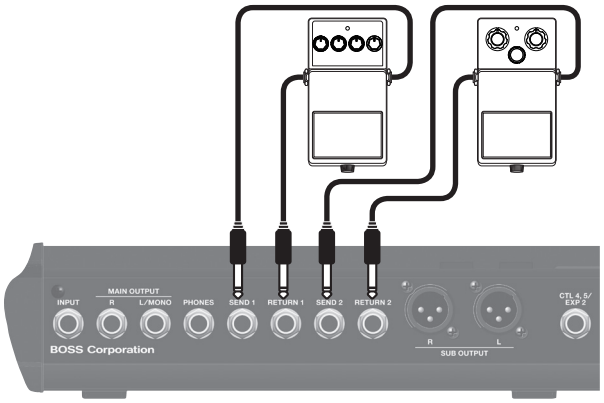
STEREO

Parameter	Value	Explanation
MODE	STEREO	Channels "A" and "B" will be mixed and output in stereo.
	PAN L/R	Channels "A" and "B" will be assigned respectively to the L and R OUTPUT jacks.
A/B BALANCE	100:0–0:100	Adjusts the volume balance of channels "A" and "B." * This is shown only if DIVIDER MODE is set to "DUAL."
SPREAD	0–100	Slightly delays the sound of channel "B" to make the sound more spacious. * This is shown only if DIVIDER MODE is set to "DUAL."

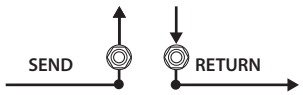
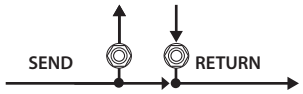
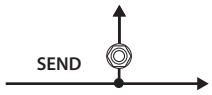
SEND/RETURN 1, 2

MONO

You can connect an external effects processor between the SEND jack and RETURN jack, and use it as one of the GT-1000's effects processors.



The sound that is input to SEND/RETURN 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.

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns the SEND/RETURN on/off.
STEREO LINK	OFF, ON	If this is on, you can use the two sets of SEND and RETURN jacks to connect a stereo effect unit.
MODE	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 GT-1000's effect chain. 
	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 GT-1000's effects sounds together with the sound 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 GT-1000's effect chain in front of reverb or delay, this allows you to use the SEND jack as a dry out. 
SEND LEVEL	0–200	Adjusts the volume of the output to the external effects device.
RETURN LEVEL	0–200	Adjusts the volume of the input from the external effects device. * You can adjust this if the MODE parameter is set to NORMAL or DIRECT MIX.
ADJUST	0–100	Adjusts the phase between the GT-1000's internal processing and an external effect unit connected to the SEND/RETURN jacks. You can adjust this if the MODE parameter is set to NORMAL or DIRECT MIX.

LOOPER

MONO

Parameter	Value	Explanation
PLAY LEVEL	0–100	Specifies the loop playback level.

MAIN SP.SIMULATOR L, MAIN SP.SIMULATOR R, SUB SP.SIMULATOR L, SUB SP.SIMULATOR R

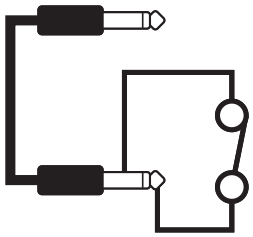
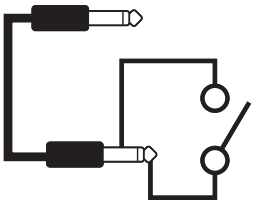
Parameter	Value	Explanation
STEREO LINK	OFF, ON	If this is OFF, L and R can be independently positioned in the chain; if this is ON, they are positioned as a set (stereo).
L:SP TYPE **R:SP TYPE *1**	Select the speaker type.	
	OFF	This turns off the speaker simulator.
	ORIGINAL	This is the built-in speaker of the amp you selected with AIRD PREAMP TYPE.
	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 an optimal speaker cabinet for a large enclosed amp with four 10-inch speakers.
	4x12″	This is an optimal speaker cabinet for a large enclosed amp with four 12-inch speakers.
	8x12″	This is a double stack of two cabinets, each with four 12-inch speakers.
	B1x15"	This is a compact open-back speaker cabinet with one 15-inch speaker.
	B1x18"	This is a compact open-back speaker cabinet with one 18-inch speaker.
	B2x15"	This is a general open-back speaker cabinet with two 15-inch speakers.
	B4x10"	This is an optimal speaker cabinet for a large enclosed amp with four 10-inch speakers.
	B8x10"	This is a double stack of two cabinets, each with four 10-inch speakers.
	USER1–4	You can create an original SP TYPE by using a dedicated tool to load IR (Impulse Response) data into the GT-1000. Download the dedicated tool from the BOSS website. http://www.boss.info/support/
L:MIC TYPE **R:MIC TYPE *2**	This setting selects the simulated mic type.	
	DYN57	This is the sound of the SHURE SM-57. General dynamic mic used for instruments and vocals. Optimal for use in miking guitar amps.
	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.
	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).
L:MIC DISTANCE **R:MIC DISTANCE *2**	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.
L:MIC POSITION **R:MIC POSITION *2**	This simulates the mic position.	
	CENTER	Simulates the condition that the mic is set in the middle of the speaker cone.
	1cm–10cm	Simulates the condition that the mic is moved away from the center of the speaker cone.
L:MIC LEVEL **R:MIC LEVEL *2**	0–100	Adjusts the volume of the mic.
L:DIRECT MIX **R:DIRECT MIX *2**	0–100	Adjusts the volume of the direct sound.

*1 This is shown only if OUTPUT SELECT is set to "RECORDING."

*2 This is shown only if OUTPUT SELECT is set to "LINE/PHONES."

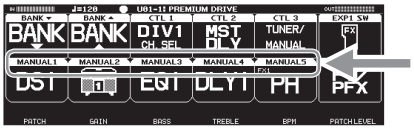
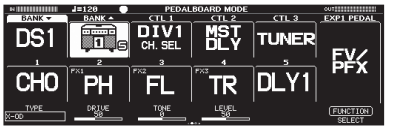
MASTER

These settings are applied to the overall patch.

<table>
<tr><th>Parameter</th><th>Value</th><th>Explanation</th></tr>
<tr><td>PATCH LEVEL</td><td>0–200</td><td>Adjusts the volume of the patch.</td></tr>
<tr><td>BPM</td><td>40–250</td><td>Adjusts the BPM value for each patch.
* BPM (beats per minute) indicates the number of quarter note beats that occur each minute</td></tr>
<tr><td>KEY</td><td>C (Am)–
B (G#m)</td><td>This sets the key for the FX HARMONIST.
Major C F B♭ E♭ A♭ D♭
Minor Am Dm Gm Cm Fm B♭m
Major C G D A E B F♯
Minor Am Em Bm F♯m C♯m G♯m D♯m</td></tr>
<tr><td rowspan="3">AMP CTL1
AMP CTL2</td><td colspan="2">By connecting your guitar amp's channel switching jack to the GT-1000's AMP CONTROL jack, you can then use Amp Control to switch the amp channel. This combining of the GT-1000 and the amp channels allows you to get an even wider variety of distortion sounds.
 
Since the Amp Control setting is handled as one of the effects parameters saved to each individual patch, it allows you to switch guitar amp channels with each patch.</td></tr>
<tr><td>OFF</td><td>Guitar Amplifier
(Channel switching jack)
 
GT-1000
(AMP CONTROL jack)</td></tr>
<tr><td>ON</td><td>Guitar Amplifier
(Channel switching jack)
 
GT-1000
(AMP CONTROL jack)</td></tr>
<tr><td>CARRYOVER</td><td>OFF, ON</td><td>You can specify whether the effect sound is carried-over when you switch patches.</td></tr>
<tr><td>BASS MODE</td><td>OFF, ON</td><td>If this is ON, effects that affect the pitch are optimized for bass.</td></tr>
</table>

CONTROL MODE

The control mode setting lets you choose how you want to operate the effects.

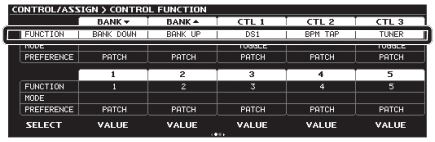
Parameter	Explanation
MEMORY **(Memory mode)**	This mode lets you recall and use the patches that are saved in the unit. Use number switches [1]–[5] to switch patches. * With the factory settings, long-pressing the [CTL3] switch puts the unit in manual mode. * Even in memory mode, you can select functions other than patch recall.
MANUAL **(Manual mode)**	This mode lets you use number switches [1]–[5] to operate the functions that are assigned to them by each patch or by the settings for the entire system. When you select manual mode, a portion of the PLAY screen changes. 
PEDALBOARD **(Pedalboard mode)**	This mode lets you use the unit in the same way as you would use several compact effect units placed side by side. Each switch turns an effect on/off. In pedalboard mode, there is no concept of patches or memories; the content of your editing is remembered without requiring you to execute a Write operation. **The play screen of pedalboard mode** 

CONTROL ASSIGN

CONTROL FUNCTION

Here you can specify the parameters that are controlled by all of the top panel footswitches, the expression pedal (EXP1), and expression pedals or footswitches that are connected to the rear panel CTL4, 5/EXP2 jack and CTL6, 7/EXP3 jack.

FUNCTION ([BANK▲], [BANK▼], [1]–[5] switch, EXP1 switch, CTL1–7)



Value		Explanation
OFF		No assignment.
BANK DOWN	*1 *2	Switches to the previous BANK number. * Cannot be selected for [BANK▲] or [1]–[5] switches
BANK UP	*1 *2	Switches to the next BANK number. * Cannot be selected for [BANK▼] or [1]–[5] switches
1	*1 *2	Selects patch number 1. * Can be selected only for switch [1]
2	*1 *2	Selects patch number 2. * Can be selected only for switch [2]
3	*1 *2	Selects patch number 3. * Can be selected only for switch [3]
4	*1 *2	Selects patch number 4. * Can be selected only for switch [4]
5	*1 *2	Selects patch number 5. * Can be selected only for switch [5]
PATCH +1		Switches to the next patch number.
PATCH -1		Switches to the previous patch number.
LEVEL +10		Increases the patch volume level by 10 units.
LEVEL +20		Increases the patch volume level by 20 units.
LEVEL -10		Decreases the patch volume level by 10 units.
LEVEL -20		Decreases the patch volume level by 20 units.
BPM TAP		Used for tap input of the MASTER BPM.
DLY1 TAP		Used for tap input of the DELAY 1.
DLY2 TAP		Used for tap input of the DELAY 2.
DLY3 TAP		Used for tap input of the DELAY 3.
DLY4 TAP		Used for tap input of the DELAY 4.
MST DLY TAP		Used for tap input of the MASTER DELAY.
TUNER/MANUAL	*3	Turns TUNER on/off when briefly pressed; turns MANUAL on/off when long-pressed.
AMP CTL 1		Switches the AMP CTL 1 on and off.
AMP CTL 2		Switches the AMP CTL 2 on and off.
CMP		Switches the COMPRESSOR on and off.
DS1		Switches the DISTORTION 1 on and off.
DS1 SOLO		Switches the DISTORTION 1 SOLO on and off.
DS2		Switches the DISTORTION 2 on and off.
DS2 SOLO		Switches the DISTORTION 2 SOLO on and off.
AMP-1		Switches the AIRD PREAMP 1 on and off.
AMP-1 SOLO		Switches the AIRD PREAMP 1 SOLO on and off.
AMP-2		Switches the AIRD PREAMP 2 on and off.
AMP-2 SOLO		Switches the AIRD PREAMP 2 SOLO on and off.
NS 1		Switches the NOISE SUPRESSOR 1 on and off.
NS 2		Switches the NOISE SUPRESSOR 2 on and off.
EQ 1		Switches the EQUALIZER 1 on and off.
EQ 2		Switches the EQUALIZER 2 on and off.
EQ 3		Switches the EQUALIZER 3 on and off.
EQ 4		Switches the EQUALIZER 4 on and off.
DLY1		Switches the DELAY 1 on and off.
DLY2		Switches the DELAY 2 on and off.
DLY3		Switches the DELAY 3 on and off.
DLY4		Switches the DELAY 4 on and off.
MST DLY		Switches the MASTER DELAY on and off.
CHO		Switches the CHORUS on and off.
FX1		Switches the FX1 on and off.
FX2		Switches the FX2 on and off.
FX3		Switches the FX3 on and off.
FX1 TRIGGER		Switches the FX1 TRIGGER on and off.
FX2 TRIGGER		Switches the FX2 TRIGGER on and off.
FX3 TRIGGER		Switches the FX3 TRIGGER on and off.
REV		Switches the REVERB on and off.
PFX		Switches the PEDAL FX on and off.
DIV1 CH.SEL		Switches the DIVIDER 1 channel select.
DIV2 CH.SEL		Switches the DIVIDER 2 channel select.
DIV3 CH.SEL		Switches the DIVIDER 3 channel select.
S/R 1		Switches the SEND/RETURN 1 on and off.
S/R 2		Switches the SEND/RETURN 2 on and off.
LOOPER		Controls the looper. For details on operation, refer to "Looper" (owner's manual).
LOOPER STOP		Stops the phrase.
LOOPER CLEAR		Clears the phrase
METRONOME		Turns the metronome on/off.

Value	Explanation
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).
MDLY TRIGGER	Turns the trigger on/off when the MASTER DELAY's TYPE is WARP or TWIST.
TUNER	Switches the TUNER on and off.
MANUAL *2	Switches the MANUAL on and off.
MANUAL/TUNER *2	Turns MANUAL on/off when briefly pressed; turns TUNER on/off when long-pressed.

*1 Not shown in "CUR NUM" and "MANUAL1–5."

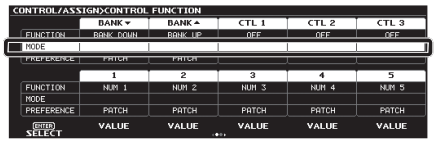
*2 Not shown if CONTROL MODE (p. 28) is set to PEDALBOARD.

*3 If CONTROL MODE (p. 28) is set to PEDALBOARD, this will be "TUNER."

FUNCTION (EXP1 PEDAL, EXP 2, EXP 3)

Value	Explanation
OFF	No assignment.
FOOT VOLUME	Foot volume will be assigned.
PEDAL FX	PEDAL FX will be assigned. According to the pedal effect setting, this operates as wah or as pedal bend.
FV/PEDAL FX	PEDAL FX and foot volume will be assigned.
FV+TUNER	Foot volume will be assigned. TUNER is displayed if the pedal is returned all the way.
FV+TUNER/PFX	PEDAL FX and foot volume will be assigned. TUNER is displayed if the pedal is returned all the way when using foot volume.

MODE



Value	Explanation
TOGGLE	The setting is toggled On (maximum value) or Off (minimum value) with each press of the footswitch.
MOMENT	The normal state is Off (minimum value), with the switch On (maximum value) only while the footswitch is depressed.

PREFERENCE

* This cannot be selected if CONTROL MODE (p. 28) is set to PEDALBOARD.

Value	Explanation
PATCH	Different settings can be made independently for each patch.
SYSTEM	The same settings will be shared by all patches.

ASSIGN SETTING

ASSIGN 1–16

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 ASSIGN 1–16 on/off.	
TARGET	**TARGET**	This selects the parameter to be changed. Refer to "TARGET list" (p. 31).		
	MIN	This sets the minimum value for the range in which the parameter can change. The value differs depending on the parameter assigned for TARGET parameter.		
	MAX	This sets the maximum value for the range in which the parameter can change. The value differs depending on the parameter assigned for TARGET parameter.		
SOURCE	**SOURCE**	NUM1–NUM5	Assigns the GT-1000's number [1]–[5] switch.	
		CUR NUM	Assigns the same number switch as the selected patch number.	
		BANKDOWN	Assigns the GT-1000's [BANK▼] switch.	
		BANKUP	Assigns the GT-1000's [BANK▲] switch.	
		CTL1–CTL3	Assigns the GT-1000's [CTL1]–[CTL3] switch.	
		CTL4, CTL5	Assigns the external footswitch connected to the CTL 4, 5/ EXP 2 jack.	
		CTL6, CTL7	Assigns the external footswitch connected to the CTL 6, 7/ EXP 3 jack.	
		EXP1 SW	Assigns the GT-1000's [EXP 1] switch.	
		EXP1	Assigns the GT-1000's expression pedal.	
		EXP2	Assigns the external expression pedal connected to the CTL 4, 5/ EXP 2 jack.	
		EXP3	Assigns the external expression pedal connected to the CTL 6, 7/ EXP 3 jack.	
		INT PEDAL	Assigns the internal pedal.	Refer to"Virtual Expression Pedal System (Internal Pedal / Wave Pedal)" (p. 36).
		WAVE PEDAL	Assigns the wave pedal.	
		INPUT	The assigned target parameter will change according to the input level.	
		CC#1–31, 64–95	Control Change messages from an external MIDI device.	
	MODE	MOMENT	The normal state is Off (minimum value), with the switch On (maximum value) only while the footswitch is depressed.	
		TOGGLE	The setting is toggled On (maximum value) or Off (minimum value) with each press of the footswitch.	
	ACT LOW	0–126	You can set the controllable range for target parameters within the source's operational range. Target parameters are controlled within the range set with ACT LOW and ACT HIGH. You should normally set ACT LOW to 0 and ACT HIGH to 127.	
	ACT HIGH	1–127		
	SENS	0–100	This adjusts the input sensitivity when INPUT is selected for SOURCE.	

Parameter		Value	Explanation
INTERNAL PEDAL	TRIGGER *1	PATCH CHANGE	This is activated when a patch is selected.
		EXP1 PDL-LOW	This is activated when the GT-1000's expression pedal is set to the minimum position.
		EXP1 PDL-MID	This is activated when the GT-1000's expression pedal is moved through the middle position.
		EXP1 PDL-HIGH	This is activated when the GT-1000's expression pedal is set to the maximum position.
		EXP1 SW	This is activated when the [EXP 1] switch is operated.
		NUM1–NUM5	This is activated when the [1]–[5] switch is operated.
		CUR NUM	This is activated when you operate the same number switch as the selected patch number.
		EXP2	This is activated when an external expression pedal connected to the CTL 4, 5/ EXP 2 jack.
		EXP3	This is activated when an external expression pedal connected to the CTL 6, 7/ EXP 3 jack.
		CTL1–CTL3	This is activated when the [CTL 1]–[CTL 3] switch is operated.
		CTL4, CTL5	This is activated when an external footswitch connected to the CTL 4, 5/ EXP 2 jack is operated.
		CTL6, CTL7	This is activated when an external footswitch connected to the CTL 6, 7/ EXP 3 jack is operated.
		BANKDOWN	This is activated when the [BANK▼] switch is operated.
		BANKUP	This is activated when the [BANK▲] switch is operated.
		CC#1–31, 64–95	This is activated when a control change is received.
	TIME *1	0–100	This specifies the time over which the internal pedal will move from the toe-raised position to the toe-down position.
	CURVE *1	LINEAR	
		SLOW RISE	
		FAST RISE	
WAVE PEDAL	FORM *2	SAW	
		TRI	
		SINE	
	RATE *2	0–100, BPM ♩= – ♪	This determines the time spend for one cycle of the assumed EXP Pedal.
		* When set to BPM, the value of each parameter will be set according to the value of the "MASTER BPM" specified for each patch. This makes it easier to achieve effect sound settings that match the tempo of the song. * If, due to the tempo, the time is longer than the range of allowable settings, it is then synchronized to a period either 1/2 or 1/4 of that time.	

Parameter		Value	Explanation
MIDI	CH *3 *4	SYSTEM	This transmits a message on the MIDI channel specified by the "MIDI SETTING" (p. 41) parameter TX CHANNEL.
		1–16	The message is transmitted on the specified MIDI channel.
TARGET MIDI CC# *3	CC#	0–127	The message is transmitted using the specified controller number.
	MIN	0–127	Selects the minimum value of the transmitted CC# message.
	MAX	0–127	Selects the maximum value of the transmitted CC# message.
TARGET MIDI PC# *4	PC#	1–128	Specifies the program number that is transmitted.
	MSB	OFF, 0–127	Specifies the bank select MSB that is transmitted. If this is OFF, the bank select MSB is not transmitted.
	LSB	OFF, 0–127	Specifies the bank select MSB that is transmitted. If this is OFF, the bank select LSB is not transmitted.

*1 The INTERNAL PEDAL TRIGGER, INTERNAL PEDAL TIME, and INTERNAL PEDAL CURVE parameters are enabled when the SOURCE parameter is set to INT PEDAL.

*2 The WAVE PEDAL FORM and WAVE PEDAL RATE parameters are enabled when the Source parameter is set to WAVE PEDAL.

*3 The MIDI CH, TARGET MIDI CC# parameters are enabled when the TARGET is set to MIDI CC.

*4 The MIDI CH, TARGET MIDI PC# parameters are enabled when the TARGET is set to MIDI PC.

TARGET list

CATEGORY	TARGET
COMP (COMPRESSOR)	ON/OFF
	TYPE
	SUSTAIN
	ATTACK
	RATIO
	TONE
	LEVEL
	DIRECT MIX
COMP: BASS (COMPRESSOR BASS)	THRESHOLD
DIST 1 (DISTORTION 1) DIST 2 (DISTORTION 2)	ON/OFF
	TYPE
	DRIVE
	TONE
	BOTTOM
	EFFECT LEVEL
	DIRECT MIX
	SOLO SW
	SOLO LEVEL
PREAMP 1 (AIRD PREAMP 1) PREAMP 2 (AIRD PREAMP 2)	ON/OFF
	TYPE
	GAIN
	SAG
	RESONANCE
	BASS
	MIDDLE
	TREBLE
	PRESENCE
	BRIGHT
	GAIN SW
	LEVEL
	SOLO SW
	SOLO LEVEL
NS 1 (NOISE SUPPRESSOR 1) NS 2 (NOISE SUPPRESSOR 2)	ON/OFF
	THRESHOLD
	RELEASE
	DETECT
EQ 1 (EQUALIZER 1) EQ 2 (EQUALIZER 2) EQ 3 (EQUALIZER 3) EQ 4 (EQUALIZER 4)	ON/OFF
	TYPE
PEQ 1 (EQUALIZER 1 PARAMETRIC) PEQ 2 (EQUALIZER 2 PARAMETRIC) PEQ 3 (EQUALIZER 3 PARAMETRIC) PEQ 4 (EQUALIZER 4 PARAMETRIC)	LOW GAIN
	LOW-MID FREQ
	LOW-MID Q
	LOW-MID GAIN
	HIGH-MID FREQ
	HIGH-MID Q
	HIGH-MID GAIN
	HIGH GAIN
	LEVEL
	LOW CUT
	HIGH CUT

CATEGORY	TARGET
GEQ 1 (EQUALIZER 1 GRAPHIC) GEQ 2 (EQUALIZER 2 GRAPHIC) GEQ 3 (EQUALIZER 3 GRAPHIC) GEQ 4 (EQUALIZER 4 GRAPHIC)	31.5Hz
	63Hz
	125Hz
	250Hz
	500Hz
	1kHz
	2kHz
	4kHz
	8kHz
	16kHz
	LEVEL
DELAY 1 DELAY 2 DELAY 3 DELAY 4	ON/OFF
	TIME
	FEEDBACK
	HIGH CUT
	EFFECT LEVEL
	DIRECT LEVEL
MST DELAY (MASTER DELAY)	ON/OFF
	TYPE
	TIME
	FEEDBACK
	HIGH CUT
	EFFECT LEVEL
	DIRECT LEVEL
	MOD RATE
	MOD DEPTH
	DUCK SENS
	DUCK PRE DEPTH
	DUCK POST DEPTH
	PAN TAP TIME
	TRIGGER
	LEVEL
M-DLY:TAPE	HEAD
M-DLY:SHIMMER	PITCH
	PITCH BAL
	PITCH FBK
M-DLY:DUAL	MODE
	D1 TYPE
	D1 TIME
	D1 FEEDBACK
	D1 HIGH CUT
	D1 EFCT LEVEL
	D2 TYPE
	D2 TIME
	D2 FEEDBACK
	D2 HIGH CUT
	D2 EFCT LEVEL
M-DLY:TWIST	MODE
	RISE TIME
	FALL TIME
M-DLY:ECHO	WOW & FLUTTER
	SPACE HEAD
	BINDRUM HEAD
	SELECTOR

CATEGORY	TARGET
CHORUS	ON/OFF
	TYPE
	RATE
	DEPTH
	PRE-DELAY
	WAVEFORM
	EFFECT LEVEL
	DIRECT LEVEL
	LOW CUT
	HIGH CUT
	DUAL RATE 1
	DUAL DEPTH 1
	DUAL PRE-DELAY 1
	DUAL WAVEFORM 1
	DUAL EFFECT LEVEL 1
	DUAL LOW CUT 1
	DUAL HIGH CUT 1
	DUAL RATE 2
	DUAL DEPTH 2
	DUAL PRE-DELAY 2
	DUAL WAVEFORM 2
	DUAL EFFECT LEVEL 2
	DUAL LOW CUT 2
	DUAL HIGH CUT 2
	DUAL OUTPUT MODE
FX1 FX2 FX3	ON/OFF
	TYPE
FX1:ACO (AC GUITAR SIM) FX2:ACO (AC GUITAR SIM) FX3:ACO (AC GUITAR SIM)	BODY
	LOW
	HIGH
	LEVEL
FX1:ACR (AC RESONANCE) FX2:ACR (AC RESONANCE) FX3:ACR (AC RESONANCE)	TYPE
	RESONANCE
	TONE
	LEVEL
FX1:AW (AUTO WAH) FX2:AW (AUTO WAH) FX3:AW (AUTO WAH)	FILTER MODE
	RATE
	DEPTH
	FREQUENCY
	RESONANCE
	WAVEFORM
	EFFECT LEVEL
	DIRECT MIX

CATEGORY	TARGET
FX1:CHO (CHORUS) FX2:CHO (CHORUS) FX3:CHO (CHORUS)	TYPE
	RATE
	DEPTH
	PRE-DELAY
	WAVEFORM
	EFFECT LEVEL
	DIRECT LEVEL
	LOW CUT
	HIGH CUT
	OUTPUT MODE
	DUAL RATE 1
	DUAL DEPTH 1
	DUAL PRE-DELAY 1
	DUAL WAVEFORM 1
	DUAL EFCT LEVEL1
	DUAL LOW CUT 1
	DUAL HIGH CUT 1
	DUAL RATE 2
	DUAL DEPTH 2
	DUAL PRE-DELAY 2
	DUAL WAVEFORM 2
	DUAL EFCT LEVEL2
	DUAL LOW CUT 2
	DUAL HIGH CUT 2
	PRIME SWEETNESS
	PRIME BELL
	CE-1 PREAMP SW
	CE-1 PREAMP GAIN
	CE-1 PREAMP LEVEL
FX1:CHO BASS (CHORUS BASS) FX2:CHO BASS (CHORUS BASS) FX3:CHO BASS (CHORUS BASS)	TYPE
	RATE
	DEPTH
	EFFECT LEVEL
	LOW CUT
	HIGH CUT
FX1:CV (CLASSIC-VIBE) FX2:CV (CLASSIC-VIBE) FX3:CV (CLASSIC-VIBE)	MODE
	RATE
	DEPTH
	EFFECT LEVEL
FX1:CMP (COMPRESSOR) FX2:CMP (COMPRESSOR) FX3:CMP (COMPRESSOR)	TYPE
	SUSTAIN
	ATTACK
	RATIO
	TONE
	LEVEL
	DIRECT MIX
FX1:CMP BASS (BASS COMPRESSOR) FX2:CMP BASS (BASS COMPRESSOR) FX3:CMP BASS (BASS COMPRESSOR)	THRESHOLD
FX1:DEF (DEFRETTER) FX2:DEF (DEFRETTER) FX3:DEF (DEFRETTER)	SENS
	DEPTH
	ATTACK
	RESONANCE
	TONE
	EFFECT LEVEL
	DIRECT MIX

CATEGORY	TARGET
FX1:DEF BASS (DEFRETTER BASS) FX2:DEF BASS (DEFRETTER BASS) FX3:DEF BASS (DEFRETTER BASS)	SENS
	ATTACK
	TONE
	EFFECT LEVEL
	DIRECT MIX
FX1:FB (FEEDBACKER) FX2:FB (FEEDBACKER) FX3:FB (FEEDBACKER)	MODE
	TRIGGER
	DEPTH
	RISE TIME
	OCTAVE RISE TIME
	FEEDBACK
	OCTAVE FEEDBACK
	VIB RATE
	VIB DEPTH
FX1:FL (FLANGER) FX2:FL (FLANGER) FX3:FL (FLANGER)	RATE
	DEPTH
	RESONANCE
	MANUAL
	TURBO
	WAVEFORM
	STEPRATE
	SEPARATION
	EFFECT LEVEL
	LOW DAMP
	HIGH DAMP
	LOW CUT
	HIGH CUT
	DIRECT MIX
FX1:FL BASS (FLANGER BASS) FX2:FL BASS (FLANGER BASS) FX3:FL BASS (FLANGER BASS)	RATE
	DEPTH
	RESONANCE
	MANUAL
	TURBO
	WAVEFORM
	STEPRATE
	SEPARATION
	EFFECT LEVEL
	LOW DAMP
	HIGH DAMP
	LOW CUT
	HIGH CUT
	DIRECT MIX
FX1:HRM (HARMONIST) FX2:HRM (HARMONIST) FX3:HRM (HARMONIST)	VOICE
	HR1 HARMONY
	HR1 PRE-DELAY
	HR1 FEEDBACK
	HR1 LEVEL
	HR2 HARMONY
	HR2 PRE-DELAY
	HR2 LEVEL
	DIRECT LEVEL

CATEGORY	TARGET
FX1:HMN (HUMANIZER) FX2:HMN (HUMANIZER) FX3:HMN (HUMANIZER)	MODE
	VOWEL1
	VOWEL2
	SENS
	RATE
	DEPTH
	MANUAL
	LEVEL
FX1:OC (OCTAVE) FX2:OC (OCTAVE) FX3:OC (OCTAVE)	TYPE
	-2OCT
	-1OCT
	DIRECT LEVEL
	RANGE
	POLY OCTAVE LEVEL
FX1:OC BASS (OCTAVE BASS) FX2:OC BASS (OCTAVE BASS) FX3:OC BASS (OCTAVE BASS)	2-Oct
	1-Oct
	DIRECT LEVEL
FX1:OT (OVERTONE) FX2:OT (OVERTONE) FX3:OT (OVERTONE)	LOWER LEVEL
	UPPER LEVEL
	UNISON LEVEL
	DIRECT LEVEL
	DETUNE
	LOW
	HIGH
	OUTPUT MODE
FX1:PAN (PAN) FX2:PAN (PAN) FX3:PAN (PAN)	RATE
	DEPTH
	WAVEFORM
	EFFECT LEVEL
	DIRECT MIX
FX1:PH (PHASER) FX2:PH (PHASER) FX3:PH (PHASER)	TYPE
	STAGE
	RATE
	DEPTH
	RESONANCE
	MANUAL
	LOW DAMP
	HIGH DAMP
	LOW CUT
	HIGH CUT
	BI-PHASE
	WAVEFORM
	STEP RATE
	SEPARATION
	EFFECT LEVEL
	DIRECT MIX

CATEGORY	TARGET
FX1:PS (PITCH SHIFTER) FX2:PS (PITCH SHIFTER) FX3:PS (PITCH SHIFTER)	VOICE
	PS1 PITCH
	PS1 FINE
	PS1 FEEDBACK
	PS1 PRE-DELAY
	PS1 LEVEL
	PS1 MODE
	PS2 PITCH
	PS2 FINE
	PS2 PRE-DELAY
	PS2 LEVEL
	PS2 MODE
	DIRECT LEVEL
FX1:RM (RING MOD) FX2:RM (RING MOD) FX3:RM (RING MOD)	INTELLIGENT
	FREQUENCY
	FREQ MOD RATE
	FREQ MOD DEPTH
	EFFECT LEVEL
	DIRECT MIX
FX1:RT (ROTARY) FX2:RT (ROTARY) FX3:RT (ROTARY)	SPEED SELECT
	SLOW RATE
	FAST RATE
	RISE TIME
	FALL TIME
	MIC DISTANCE
	ROTOR/HORN
	DRIVE
	EFFECT LEVEL
	DIRECT MIX
FX1:STR (SITAR SIM) FX2:STR (SITAR SIM) FX3:STR (SITAR SIM)	SENS
	DEPTH
	RESONANCE
	BUZZ
	TONE
	EFFECT LEVEL
	DIRECT MIX
FX1:SL (SLICER) FX2:SL (SLICER) FX3:SL (SLICER)	PATTERN
	RATE
	ATTACK
	DUTY
	TRIGGER
	EFFECT LEVEL
	DIRECT MIX
FX1:SG (SLOW GEAR) FX2:SG (SLOW GEAR) FX3:SG (SLOW GEAR)	SENS
	RISE TIME
	LEVEL
FX1:SG BASS (SLOW GEAR BASS) FX2:SG BASS (SLOW GEAR BASS) FX3:SG BASS (SLOW GEAR BASS)	SENS
	RISE TIME
	LEVEL
FX1:SH (SOUND HOLD) FX2:SH (SOUND HOLD) FX3:SH (SOUND HOLD)	TRIGGER
	RISE TIME
	EFFECT LEVEL

CATEGORY	TARGET
FX1:SB (S-BEND) FX2:SB (S-BEND) FX3:SB (S-BEND)	TRIGGER
	PITCH
	RISE TIME
	FALL TIME
FX1:TW (TOUCH WAH) FX2:TW (TOUCH WAH) FX3:TW (TOUCH WAH)	FILTER MODE
	POLARITY
	SENS
	FREQUENCY
	RESONANCE
	DECAY
	EFFECT LEVEL
	DIRECT MIX
FX1:TW BASS (TOUCH WAH BASS) FX2:TW BASS (TOUCH WAH BASS) FX3:TW BASS (TOUCH WAH BASS)	FILTER MODE
	POLARITY
	SENS
	FREQUENCY
	RESONANCE
	DECAY
	EFFECT LEVEL
	DIRECT MIX
FX1:TR (TREMOLO) FX2:TR (TREMOLO) FX3:TR (TREMOLO)	RATE
	DEPTH
	WAVEFORM
	TRIGGER
	RISE TIME
	EFFECT LEVEL
	DIRECT MIX
FX1:VIB (VIBRATO) FX2:VIB (VIBRATO) FX3:VIB (VIBRATO)	RATE
	DEPTH
	COLOR
	TRIGGER
	RISE TIME
	EFFECT LEVEL
	DIRECT MIX
REVERB	ON/OFF
	TYPE
	TIME
	DENSITY
	PRE DELAY
	TONE
	EFFECT LEVEL
	DIRECT LEVEL
	LOW CUT
	HIGH CUT
	LOW DAMP
	HIGH DAMP
	MOD RATE
	MOD DEPTH
	DUCK SENS
	DUCK PRE DEPTH
	DUCK POST DEPTH
REVERB: SHIMMER	PITCH 1
	LEVEL 1
	PITCH 2
	LEVEL 2

CATEGORY	TARGET
REVERB: DUAL	TYPE 1
	TIME 1
	PRE-DELAY 1
	DENSITY 1
	TONE 1
	EFFECT LEVEL 1
	LOW CUT 1
	HIGH CUT 1
	TYPE 2
	TIME 2
	PRE-DELAY 2
	DENSITY 2
	TONE 2
	EFFECT LEVEL 2
	LOW CUT 2
	HIGH CUT 2
REVERB: TERA ECHO	MODE
	S-TIME
	FEEDBACK
	TRIGGER
PEDAL FX	ON/OFF
	TYPE
	EFFECT LEVEL
	DIRECT MIX
PEDAL BEND	PITCH
	PEDAL POSITION
PEDAL WAH	TYPE
	PEDAL POSITION
	PEDAL MIN
	PEDAL MAX
FOOT VOLUME	PEDAL POSITION
	VOLUME MIN
	VOLUME MAX
	VOLUME CURVE
DIV1 (DIVIDER 1) DIV2 (DIVIDER 2) DIV3 (DIVIDER 3)	MODE
	CH SELECT
	Ch.A DYNAMIC
	Ch.A DYNAMIC SENS
	Ch.A FILTER
	Ch.A CUTOFF FREQ
	Ch.B DYNAMIC
	Ch.B DYNAMIC SENS
	Ch.B FILTER
	Ch.B CUTOFF FREQ
MIXER 1 MIXER 2 MIXER 3	MODE
	Ch.A/B BALANCE
	SPREAD
S/R 1 (SEND/RETURN 1) S/R 2 (SEND/RETURN 2)	ON/OFF
	MODE
	SEND LEVEL
	RETURN LEVEL
	ADJUST
LOOPER	PLAY LEVEL
AMP CTL (AMP CONTROL)	CTL 1
	CTL 2

CATEGORY	TARGET
MASTER	PATCH LEVEL
	BPM
	KEY
	BASS MODE
MIDI	MIDI CC#
	MIDI PC#
TUNER	ON/OFF

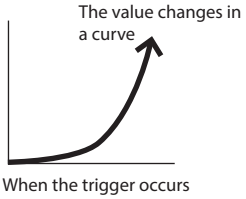
Virtual Expression Pedal System (Internal Pedal / Wave Pedal)

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 provides the following two types of functions, and you can use the SOURCE setting for ASSIGN 1–16 to choose the desired type.

Internal pedal

If SOURCE is set to "INT PEDAL," the virtual expression pedal will begin operating when started by the specified trigger (TRIGGER), modifying the parameter specified by "TARGET."



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.

INPUT (Input Level)

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 (Input Sens)

Parameter	Value	Explanation
INPUT SENS	0–100	This adjusts the input sensitivity when INPUT LEVEL is selected for SOURCE.

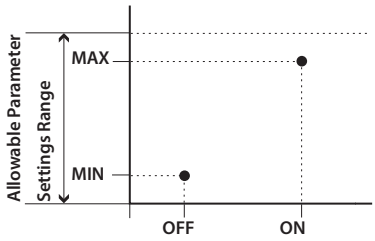
About the Range of a Target's Change

The value of the parameter selected as the target changes within the range defined by "Min" and "Max," as set on the GT-1000.

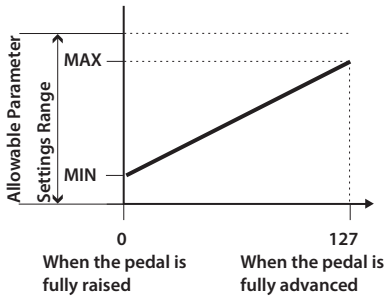
When using an external footswitch, or other controller that acts as an on/off switch, "Min" is selected with Off (CLOSED), and "Max" is selected with On (OPEN).

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.

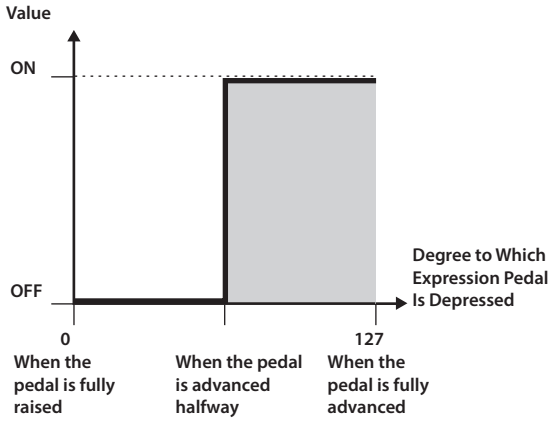
When using the footswitch:



When using the expression pedal:



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

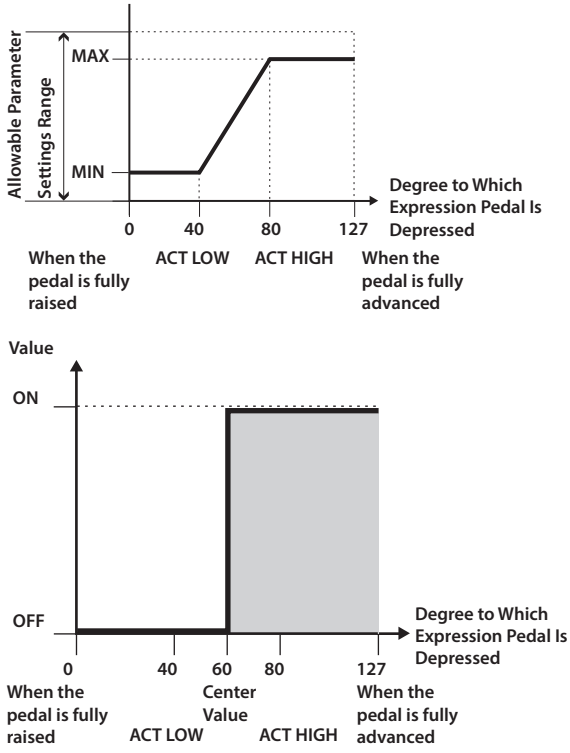


* The range that can be selected changes according to the target setting.
* When the "minimum" is set to a higher value than the "maximum," the change in the parameter is reversed.
* The values of settings can change if the target is changed after the "minimum" and "maximum" settings have been made.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



* When using a footswitch or other on/off switching controller as the source, leave these at "ACT LOW: 0" and "ACT HIGH: 127." With certain settings, the value may not change.

PATCH MIDI

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

PATCH MIDI 1, 2, 3, 4

Parameter	Value	Explanation
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 patches. If this is OFF, no program number is transmitted.
BANK MSB **BANK LSB**	OFF, 0–127	Specifies whether bank select messages are transmitted when you switch patches. * It is not possible to transmit only BANK LSB. * 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# **CC2#**	OFF, 0–127	Specifies whether a control change is transmitted when you switch patches. If this is OFF, no control change is transmitted.
CC1 VALUE **CC2 VALUE**	0–127	Specifies the value of the control change.

LED COLOR

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

[BANK▼], [BANK▲], [1]–[5] switch, CTL1–3, EXP1 SW, CUR NUM

Value	Explanation
OFF	The LED is not lit.
RED **BLUE** **LIGHT BLUE** **ORANGE** **GREEN** **YELLOW** **WHITE** **PURPLE** **PINK** **CYAN**	Specify the color of LED illumination.
AUTO	The illumination behavior and color that are appropriate for the footswitch function will be specified. If "ON" is set to AUTO, the OFF setting is ignored.
AUTO RED **AUTO BLUE** **AUTO LIGHT BLUE** **AUTO ORANGE** **AUTO GREEN** **AUTO YELLOW** **AUTO WHITE** **AUTO PURPLE** **AUTO PINK** **AUTO CYAN**	The illumination behavior that is appropriate for the footswitch function will be specified. You can specify the color. If "ON" is set to AUTO, the OFF setting is ignored.

TEMPO HOLD

Parameter	Value	Explanation
TEMPO HOLD	OFF, ON	Specifies whether the tempo (BPM) changes or is maintained when you switch patches.

IN/OUT SETTING

INPUT

Adjust the input level according to the output level of the guitar that you've connected.

Parameter	Value	Explanation
INPUT LEVEL	-20–+20dB	Adjusts the guitar input level.

MAIN OUT, SUB OUT

Specify the device (amp) that's connected to the MAIN OUTPUT, SUB OUTPUT jacks.

OUTPUT SELECT

Parameter
AIRD OUTPUT SELECT

Value	Explanation
LINE/PHONES	Choose this setting if you're using headphones, or if the GT-1000 is connected to a keyboard amp, mixer, or digital recorder. The speaker type for the preamp is fixed (original).
RECORDING	Choose this setting if you're using headphones, or if the GT-1000 is connected to a keyboard amp, mixer, or digital recorder. This setting lets you freely select the speaker type.
JC-120 RETURN	Choose this setting if the GT-1000 is connected to the RETURN jack of the Roland JC-120 guitar amp.
JC-120 INPUT	Choose this setting if the GT-1000 is connected to the guitar input of a JC-120 guitar amp.
Blues Cube Tour410 RETURN	Choose this setting if the GT-1000 is connected to the RETURN jack of the Roland Blues Cube Tour guitar amp. This assumes that the connected speaker cabinet is the Blues Cube Cabinet 410.
Blues Cube Tour410 INPUT	Choose this setting if the GT-1000 is connected to the guitar input of a Roland Blues Cube Tour guitar amp. This assumes that the connected speaker cabinet is the Blues Cube Cabinet 410.
Blues Cube Artist212 RETURN	Choose this setting if the GT-1000 is connected to the RETURN jack of the Roland Blues Cube Artist212 guitar amp.
Blues Cube Artist212 INPUT	Choose this setting if the GT-1000 is connected to the guitar input of a Roland Blues Cube Artist212 guitar amp.
WAZA Amp 412 RETURN	Choose this setting if the GT-1000 is connected to the RETURN jack of the BOSS WAZA Amp Head guitar amp. This assumes that the connected speaker cabinet is the WAZA Amp Cabinet 412.
WAZA Amp 412 INPUT	Choose this setting if the GT-1000 is connected to the guitar input of a BOSS WAZA Amp Head guitar amp. This assumes that the connected speaker cabinet is the WAZA Amp Cabinet 412.
WAZA Amp 212 RETURN	Choose this setting if the GT-1000 is connected to the RETURN jack of the BOSS WAZA Amp Head guitar amp. This assumes that the connected speaker cabinet is the WAZA Amp Cabinet 212.
WAZA Amp 212 INPUT	Choose this setting if the GT-1000 is connected to the guitar input of a BOSS WAZA Amp Head guitar amp. This assumes that the connected speaker cabinet is the WAZA Amp Cabinet 412.
KATANA-100/212 RETURN	Choose this setting if the GT-1000 is connected to the RETURN jack of the KATANA-100/212 guitar amp.
KATANA-100/212 INPUT	Choose this setting if the GT-1000 is connected to the guitar input of a KATANA-100/212 guitar amp.
KATANA-100 RETURN	Choose this setting if the GT-1000 is connected to the RETURN jack of the KATANA-100 guitar amp.
KATANA-100 INPUT	Choose this setting if the GT-1000 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 two 12″ speakers.
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 two 12″ speakers.
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 is equipped with four 12″ speakers.
TUBE STACK 412 INPUT	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″ speakers.
KATANA-50 INPUT	Choose this setting if the GT-1000 is connected to the guitar input of a KATANA-50 guitar amp.
NEXTONE-Artist RETURN	Choose this setting if the GT-1000 is connected to the RETURN jack of the NEXTONE-Artist guitar amp. This assumes that the POWER AMP SELECT is set to EL34.
NEXTONE-Stage RETURN	Choose this setting if the GT-1000 is connected to the RETURN jack of the NEXTONE-Stage guitar amp. This assumes that the POWER AMP SELECT is set to EL34.
MUSTANG 212 RETURN	A setting for the connection to the RETURN jack of the Fender MUSTANG guitar amp. This assumes that the connected speaker cabinet is equipped with two 12″ speakers.
Hot Rod Deluxe RETURN	A setting for the connection to the RETURN jack of the Fender Hot Rod Deluxe guitar amp.
Twin Reverb INPUT	A setting for the connection to the guitar input of the Fender Twin Reverb guitar amp.
AC30 INPUT	A setting for the connection to the guitar input of the VOX AC30 guitar amp.
JCM2000 412 RETURN	A setting for the connection to the RETURN jack of the Marshall JCM2000 guitar amp. The connected cabinet is assumed to be a Marshall cabinet with four 12″ speakers.
JVM410H 412 RETURN	A setting for the connection to the RETURN jack of the Marshall JVM410H guitar amp. The connected cabinet is assumed to be a Marshall cabinet with four 12″ speakers.
Rectifier 412 RETURN	A setting for the connection to the RETURN jack of the MESA/Boogie Rectifier guitar amp. The connected cabinet is assumed to be a MESA/Boogie cabinet with four 12″ speakers.
TriAmp 412 RETURN	A setting for the connection to the RETURN jack of the Hughes & Kettner TriAmp guitar amp. The connected cabinet is assumed to be a Hughes & Kettner cabinet with four 12″ speakers.
BASS AMP WITH TWEETER	Use this setting when connecting to a bass amp that has no tweeter.
BASS AMP NO TWEETER	Use this setting when connecting to a tweeter-equipped bass amp.
USER1, USER2	You can use a dedicated tool to download settings from the Boss website and add them to USER1 and USER2. Download the dedicated tool from the BOSS website. **http://www.boss.info/support/**

GLOBAL EQ

This adjusts the tone of the OUTPUT regardless of the equalizer on/off settings of individual patches.

* If the STEREO LINK is ON, the L settings are also applied to R.

Parameter	Value	Explanation
STEREO LINK	OFF, ON	If this is ON, the L and R settings are made at the same time.
L LOW GAIN **R LOW GAIN**	-20–+20dB	Adjusts the tone for the low frequency range.
L MID GAIN **R MID GAIN**	-20–+20dB	Adjusts the tone for the middle frequency range.
L MID FREQ **R MID FREQ**	20.0Hz–16.0kHz	Specifies the center of the frequency range that will be adjusted by the MID GAIN.
L MID Q **R MID Q**	0.5–16	Adjusts the width of the area affected by the EQ centered at the MID FREQ. Higher values will narrow the area.
L HIGH GAIN **R HIGH GAIN**	-20–+20dB	Adjusts the tone for the high frequency range.
L LOW CUT **R LOW CUT**	FLAT, 20.0Hz–20.0kHz	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.
L HIGH CUT **R HIGH CUT**	20.0Hz–20.0kHz 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–+20dB	Adjusts the output level.

OUTPUT LEVEL

Parameter	Value	Explanation
LEVEL SELECT	-10dBu, +4dBu	Specifies the output reference level as appropriate for the input level of the device connected to the OUTPUT jacks.
OUTPUT LEVEL	0–100	Adjusts the output level (SUB OUT only).

PHONES

This specifies the signal that is output from the PHONES jack.

Parameter	Value	Explanation
PHONES SETTING	MAIN OUT	The MAIN OUT signal is output to headphones.
	SUB OUT	The SUB OUT signal is output to headphones.
	MAIN+SUB	The MAIN OUT and SUB OUT signals are mixed and output to headphones.

TOTAL

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

Parameter	Value	Explanation
NS THRESHOLD	-20dB–0dB–+20dB	Control the threshold level of the noise suppressor used by each patch. It is effective to adjust this when you switch to connecting a different guitar, or according to the amount of noise in the performance venue. This does not affect the settings of each patch. * If you want to use the settings specified for each patch, set this to 0 dB.
REVERB LEVEL	0%–200%	Adjusts the reverb level specified for each patch. 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 patch. * If you want to use the settings specified for each patch, set this to 100%.
METRONOME OUT	Specifies the metronome's output destination.	
	MAIN OUT	Output from MAIN OUTPUT.
	SUB OUT	Output from SUB OUTPUT.
	MAIN+SUB	Output from both MAIN OUTPUT and SUB OUTPUT.

USB-Related Settings

Here you can make USB-related settings for when the GT-1000 is connected to a computer via USB.

USB audio flow

GT-1000 provides three USB audio outputs: "MAIN", "SUB" and "DRY."

MAIN outputs the effect sound from MAIN OUT; the return from the computer is mixed with the guitar's performance at the final stage of MAIN OUT.

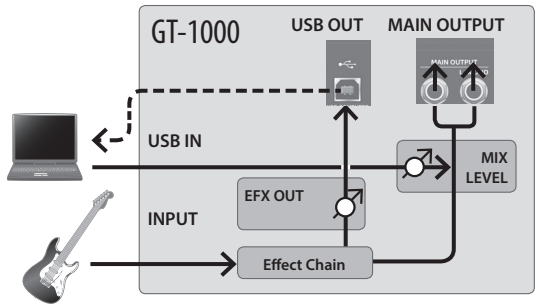
SUB outputs the effect sound from SUB OUT; the return from the computer is mixed with the guitar's performance at the final stage of SUB OUT.

DRY always outputs the dry sound regardless of the GT-1000 unit's settings; the return from the computer is always returned to the beginning of the effect chain.

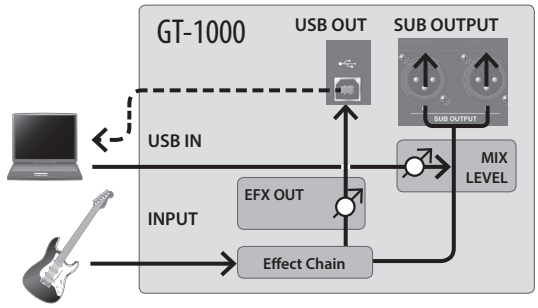
Since the GT-1000 is outputting to the computer from each of MAIN, SUB, and DRY, you can provide three tracks for guitar and simultaneously record the dry sound, the effect sound from MAIN OUT, and the effect sound from SUB OUT.

If you are not satisfied with the effect sound from MAIN OUT or SUB OUT, you can play back the dry sound that was simultaneously recorded from DRY, and pass it through the effect chain of the GT-1000 to remake the sound.

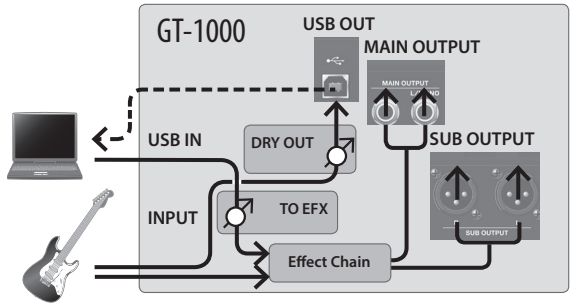
USB MAIN



USB SUB



USB DRY



MAIN

Parameter	Value	Explanation
MIX LEVEL	0–200%	Adjusts the level of the input sound from the computer. At this time, the input sound from the computer is mixed at the final stage of the GT-1000's MAIN OUT.
EFX OUT	0–200%	Adjusts the level of the sound that is output to the computer from MAIN OUT after passing through the GT-1000's effects.
DIR MON	Selects whether the sound of the GT-1000, is output to the PHONES jack or the MAIN OUTPUT jacks. * This setting cannot be saved. It will be ON when the unit is powered-on.	
	OFF	Turn this off if the audio data is being passed through within the computer. In this case, you won't hear the sound unless the computer is set to through.
	ON	The sound of the GT-1000, is output directly. Turn this on if you're using the GT-1000, by itself without connecting to a computer. (If this is off, only the sound that is input to USB will be output.)

SUB

Parameter	Value	Explanation
MIX LEVEL	0–200%	Adjusts the level of the sound that is input from the computer. In this case, the input sound from the computer is mixed at the final stage of the GT-1000's SUB OUT.
EFX OUT	0–200%	Adjusts the level of the sound that is output to the computer from SUB OUT after passing through the GT-1000's effects.
DIR MON	Selects whether the sound of the GT-1000, is output to the PHONES jack or the SUB OUTPUT jacks. * This setting cannot be saved. It will be ON when the unit is powered-on.	
	OFF	Turn this off if the audio data is being passed through within the computer. In this case, you won't hear the sound unless the computer is set to through.
	ON	The sound of the GT-1000, is output directly. Turn this on if you're using the GT-1000, by itself without connecting to a computer. (If this is off, only the sound that is input to USB will be output.)

DRY

Parameter	Value	Explanation
OUT	0–200%	The guitar sound that is input to the GT-1000, is output without change (DRY sound); it is not processed by effects.
TO EFX	0–200%	Adjusts the input level from the computer to the GT-1000's effects.

PLAY OPTION

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

Parameter	Value	Explanation
BANK MODE	WAIT	Although the indication in the display is updated to reflect the change in the bank when a BANK pedal is pressed, the patch will not change until a number pedal has been pressed.
	IMMED	The patch switches instantly when a BANK pedal or any of the number pedals is pressed.
BANK EXTENT MIN	U01–U50 P01–P50,	Sets the lower limit for the banks.
BANK EXTENT MAX	U01–U50 P01–P50,	Sets the upper limit for the banks.
PHRASE LOOP MODE	MONO	Mixes the L/R signals for mono operation. The recording time is 38 seconds.
	STEREO	Operate in stereo. The recording time is 19 seconds.
PHRASE LOOP REC ACTION	Specifies how the looper operates when you press the pedal.	
	REC → PLAY → DUB	Operation switches in the order of record → play → overdub.
	REC → DUB → PLAY	Operation switches in the order of record → overdub → play.

MIDI

Here you can make settings for using the GT-1000 connected with an external MIDI device or with a second GT-1000 unit.

Reference

For more about MIDI, refer to "Connecting External MIDI Devices" in the owner's manual.

MIDI SETTING

Parameter	Value	Explanation
RX CHANNEL	This sets the MIDI channel used for receiving MIDI messages.	
	Ch. 1– Ch. 16	Specifies the receive channel.
OMNI MODE	This makes the settings for the channels used for MIDI information.	
	OFF	Information is received on the channel specified by the RX CHANNEL setting.
	ON	Messages are received on all channels, regardless of the MIDI channel settings.
TX CHANNEL	Sets the MIDI channel used for transmitting MIDI messages.	
	Ch. 1– Ch. 16.	Specifies the transmit channel.
	RX	Transmits on the same channel as the RX CHANNEL.
DEVICE ID	This sets the MIDI Device ID used for transmitting and receiving Exclusive messages.	
	1–32	Sets the MIDI Device ID.
MIDI IN THRU	This specifies the connector from which to output the MIDI messages that are received at the MIDI IN connector.	
	OFF	MIDI messages are not transmitted.
	MIDI OUT	Messages are transmitted from the MIDI OUT connector.
	USB OUT	Messages are transmitted from the USB port.
	USB/MIDI	Messages are transmitted from the USB port and the MIDI OUT connector.
USB IN THRU	This specifies the connector from which to output the MIDI messages that are received at the USB port.	
	OFF	MIDI messages are not transmitted.
	MIDI OUT	Messages are transmitted from the MIDI OUT connector.
	USB OUT	Messages are transmitted from the USB port.
	USB/MIDI	Messages are transmitted from the USB port and the MIDI OUT connector.
SYNC CLOCK	This setting determines the basis used for synchronizing the timing for effect modulation rates and other time-based parameters. * When you have an external MIDI device connected, the MASTER BPM is then synchronized to the external MIDI device's tempo, thus disabling the MASTER BPM setting. To enable setting of the MASTER BPM, set to "INTERNAL." * When synchronizing performances to the MIDI Clock signal from an external MIDI device, timing problems in the performance may occur due to errors in the MIDI Clock.	
	AUTO	Operations are synchronized to MIDI clock messages received via MIDI or USB. However, operations are automatically synchronized to the GT-1000's internal clock if the GT-1000, is unable to receive the external Clock.
	INTERNAL	Operations are synchronized to the GT-1000's internal Clock.
	MIDI (AUTO)	Operations are synchronized to the MIDI Clock received via MIDI. However, operations are automatically synchronized to the GT-1000's internal Clock if the GT-1000 is unable to receive the external Clock.
	USB (AUTO)	Operations are synchronized to the USB Clock received via USB. However, operations are automatically synchronized to the GT-1000's internal Clock if the GT-1000 is unable to receive the external Clock.

Parameter	Value	Explanation
CLOCK OUT	Specifies whether MIDI clock will be output from the GT-1000.	
	OFF	MIDI clock is not output.
	ON	MIDI clock is output.
MAP SELECT	Specifies whether program change messages received by the GT-1000, will switch patches according to the settings of the program change map or will switch patches according to the default settings.	
	FIX	This deactivates the Program Change Map. Switches to the patches according to the default settings.
	PROG	This activates the Program Change Map. Switches to the patches according to the Program Change Map.
NUM1 CC# **NUM2 CC#** **NUM3 CC#** **NUM4 CC#** **NUM5 CC#** **BANKDOWN CC#** **BANKUP CC#** **CTL1 CC#** **CTL2 CC#** **CTL3 CC#** **CTL4 CC#** **CTL5 CC#** **CTL6 CC#** **CTL7 CC#** **EXP1 SW CC#** **EXP1 CC#** **EXP2 CC#** **EXP3 CC#**	Specifies the controller number when transmitting pedal operations as control change messages.	
	OFF	Control Change messages are not output.
	CC#1–CC#31, CC#64–CC#95	Pedal operations are transmitted using the specified controller number.

PROGRAM MAP BANK1–BANK4

When switching patches using Program Change messages transmitted by an external MIDI device, you can freely set the correspondence between Program Change messages received by the GT-1000 and the patches to be switched to in the "Program Change Map."

Parameter	Value	Explanation
PC#1–PC#128	U01-1–U50-5, P01-1–P50-5	This sets the patch number (U01-1 through P50-5) for the corresponding Program Change number.

BULK DUMP

You can use Exclusive messages to provide another GT-1000 with identical settings, and save effect settings on a MIDI sequencer or other device.

Parameter	Value	Explanation
FROM **TO**	SYSTEM	System parameter settings
	U01-1–U50-5	Settings for Patch Number U01-1 through U50-5
	STOMPBOX	Stomp box settings
	TEMP	Settings for the patch that is currently selected

HARDWARE SETTING

KNOB

Here you can assign the desired parameters to knobs [1]–[6] in the Play Screen.

* The settings you make here are only for the knobs in the Play Screen.

Parameter
KNOB 1–KNOB 6

Value (Category)	Value (Target)
COMPRESSOR	ON/OFF
	TYPE
	SUSTAIN
	ATTACK
	RATIO
	TONE
	LEVEL
	DIRECT MIX
COMP: BASS (COMPRESSOR BASS)	THRESHOLD
DISTORTION 1 DISTORTION 2	ON/OFF
	TYPE
	DRIVE
	TONE
	BOTTOM
	EFFECT LEVEL
	DIRECT MIX
	SOLO SW
	SOLO LEVEL
AIRD PREAMP 1 AIRD PREAMP 2	ON/OFF
	TYPE
	GAIN
	SAG
	RESONANCE
	BASS
	MIDDLE
	TREBLE
	PRESENCE
	BRIGHT
	LEVEL
	GAIN SW
	SOLO SW
	SOLO LEVEL
NS 1 (NOISE SUPPRESSOR 1) NS 2 (NOISE SUPPRESSOR 2)	ON/OFF
	THRESHOLD
	RELEASE
	DETECT
EQ 1 (EQUALIZER 1) EQ 2 (EQUALIZER 2)	ON/OFF
EQ 3 (EQUALIZER 3) EQ 4 (EQUALIZER 4)	TYPE

Value (Category)	Value (Target)
EQ 1: PEQ (EQUALIZER 1 PARAMETRIC) EQ 2: PEQ (EQUALIZER 2 PARAMETRIC) EQ 3: PEQ (EQUALIZER 3 PARAMETRIC) EQ 4: PEQ (EQUALIZER 4 PARAMETRIC)	LOW GAIN
	LOW-MID FREQ
	LOW-MID Q
	LOW-MID GAIN
	HIGH-MID FREQ
	HIGH-MID Q
	HIGH-MID GAIN
	HIGH GAIN
	LEVEL
	LOW CUT
	HIGH CUT
EQ1: GEQ (EQUALIZER 1 GRAPHIC) EQ2: GEQ (EQUALIZER 2 GRAPHIC) EQ3: GEQ (EQUALIZER 3 GRAPHIC) EQ4: GEQ (EQUALIZER 4 GRAPHIC)	31.5Hz
	63Hz
	125Hz
	250Hz
	500Hz
	1kHz
	2kHz
	4kHz
	8kHz
	16kHz
	LEVEL
DELAY 1 DELAY 2 DELAY 3 DELAY 4	ON/OFF
	TIME
	FEEDBACK
	HIGH CUT
	EFFECT LEVEL
	DIRECT LEVEL
MASTER DELAY	ON/OFF
	TYPE
	TIME
	FEEDBACK
	HIGH CUT
	EFFECT LEVEL
	DIRECT LEVEL
	MOD RATE
	MOD DEPTH
	DUCK SENS
	DUCK PRE DPT
	DUCK POST DPT
	TAP TIME
	TRIGGER
	LEVEL
M-DLY: TAPE (MASTER DELAY: TAPE)	HEAD
M-DLY: SHIMMER (MASTER DELAY: SHIMMER)	PITCH
	PITCH BAL
	PITCH FBK

Value (Category)	Value (Target)
M-DLY: DUAL (MASTER DELAY: DUAL)	MODE
	D1 TYPE
	D1 TIME
	D1 FEEDBACK
	D1 HIGH CUT
	D1 EFCT LEVEL
	D2 TYPE
	D2 TIME
	D2 FEEDBACK
	D2 HIGH CUT
	D2 EFCT LEVEL
M-DLY: TWIST (MASTER DELAY: TWIST)	MODE
	RISE TIME
	FALL TIME
M-DLY:ECHO (MASTER DELAY: ECHO)	WOW & FLUTTER
	SPACE HEAD
	BINDRUM HEAD
	SELECTOR
CHORUS	ON/OFF
	TYPE
	RATE
	DEPTH
	PRE-DELAY
	WAVEFORM
	EFFECT LEVEL
	DIRECT LEVEL
	LOW CUT
	HIGH CUT
CHORUS: DUAL	RATE 1
	DEPTH 1
	PRE-DELAY 1
	WAVEFORM 1
	EFCT LEVEL 1
	LOW CUT 1
	HIGH CUT 1
	RATE 2
	DEPTH 2
	PRE-DELAY 2
	WAVEFORM 2
	EFCT LEVEL 2
	LOW CUT 2
	HIGH CUT 2
	OUTPUT MODE
FX1 FX2 FX3	ON/OFF
	TYPE
FX1: ACG SIM (AC GUITAR SIM) FX2: ACG SIM (AC GUITAR SIM) FX3: ACG SIM (AC GUITAR SIM)	BODY
	LOW
	HIGH
	LEVEL
FX1: AC RES (AC RESONANCE) FX2: AC RES (AC RESONANCE) FX3: AC RES (AC RESONANCE)	TYPE
	RESONANCE
	TONE
	LEVEL

Value (Category)	Value (Target)
FX1: AUTO WAH FX2: AUTO WAH FX3: AUTO WAH	FILTER MODE
	RATE
	DEPTH
	FREQUENCY
	RESONANCE
	WAVEFORM
	EFFECT LEVEL
	DIRECT MIX
FX1: CHORUS FX2: CHORUS FX3: CHORUS	TYPE
	RATE
	DEPTH
	PRE-DELAY
	WAVEFORM
	EFFECT LEVEL
	DIRECT LEVEL
	LOW CUT
	HIGH CUT
FX1: CHO DUAL (CHORUS DUAL) FX2: CHO DUAL (CHORUS DUAL) FX3: CHO DUAL (CHORUS DUAL)	RATE 1
	DEPTH 1
	PRE-DELAY 1
	WAVEFORM 1
	EFCT LEVEL1
	LOW CUT 1
	HIGH CUT 1
	RATE 2
	DEPTH 2
	PRE-DELAY 2
	WAVEFORM 2
	EFCT LEVEL2
	LOW CUT 2
	HIGH CUT 2
FX1: CHO PRIME (CHORUS PRIME) FX2: CHO PRIME (CHORUS PRIME) FX3: CHO PRIME (CHORUS PRIME)	SWEETNESS
	BELL
FX1: CHO CE-1 (CHORUS CE-1) FX2: CHO CE-1 (CHORUS CE-1) FX3: CHO CE-1 (CHORUS CE-1)	PREAMP SW
	PREAMP GAIN
	PREAMP LEVEL
FX1:CHO BASS (CHORUS BASS) FX2:CHO BASS (CHORUS BASS) FX3:CHO BASS (CHORUS BASS)	TYPE
	RATE
	DEPTH
	EFFECT LEVEL
	LOW CUT
	HIGH CUT
FX1: C-VIBE (CLASSIC VIBE) FX2: C-VIBE (CLASSIC VIBE) FX3: C-VIBE (CLASSIC VIBE)	MODE
	RATE
	DEPTH
	EFFECT LEVEL
FX1: COMP (COMPRESSOR) FX2: COMP (COMPRESSOR) FX3: COMP (COMPRESSOR)	TYPE
	SUSTAIN
	ATTACK
	RATIO
	TONE
	LEVEL
	DIRECT MIX

Value (Category)	Value (Target)
FX1:CMP BASS (BASS COMPRESSOR) **FX2:CMP BASS (BASS COMPRESSOR)** **FX3:CMP BASS (BASS COMPRESSOR)**	THRESHOLD
FX1: DEFRETTER **FX2: DEFRETTER** **FX3: DEFRETTER**	SENS
	DEPTH
	ATTACK
	RESONANCE
	TONE
	EFFECT LEVEL
	DIRECT MIX
FX1:DEF BASS (DEFRETTER BASS) **FX2:DEF BASS (DEFRETTER BASS)** **FX3:DEF BASS (DEFRETTER BASS)**	SENS
	ATTACK
	TONE
	EFFECT LEVEL
	DIRECT MIX
FX1: FEEDBACKR (FEEDBACKER) **FX2: FEEDBACKR (FEEDBACKER)** **FX3: FEEDBACKR (FEEDBACKER)**	MODE
	TRIGGER
	DEPTH
	RISE TIME
	OCT RISE TIME
	FEEDBACK
	OCT FEEDBACK
	VIB RATE
	VIB DEPTH
FX1: FLANGER **FX2: FLANGER** **FX3: FLANGER**	RATE
	DEPTH
	RESONANCE
	MANUAL
	TURBO
	WAVEFORM
	STEPRATE
	SEPARATION
	EFFECT LEVEL
	LOW DAMP
	HIGH DAMP
	LOW CUT
	HIGH CUT
	DIRECT MIX
FX1:FL BASS (FLANGER BASS) **FX2:FL BASS (FLANGER BASS)** **FX3:FL BASS (FLANGER BASS)**	RATE
	DEPTH
	RESONANCE
	MANUAL
	TURBO
	WAVEFORM
	STEPRATE
	SEPARATION
	EFFECT LEVEL
	LOW DAMP
	HIGH DAMP
	LOW CUT
	HIGH CUT
	DIRECT MIX

Value (Category)	Value (Target)
FX1: HARMONIST **FX2: HARMONIST** **FX3: HARMONIST**	VOICE
	HR1:HARMONY
	HR1:PRE-DELAY
	HR1:FEEDBACK
	HR1:LEVEL
	HR2:HARMONY
	HR2:PRE-DELAY
	HR2:LEVEL
	DIRECT LEVEL
FX1: HUMANIZER **FX2: HUMANIZER** **FX3: HUMANIZER**	MODE
	VOWEL1
	VOWEL2
	SENS
	RATE
	DEPTH
	MANUAL
	LEVEL
FX1: OCTAVE **FX2: OCTAVE** **FX3: OCTAVE**	TYPE
	-2OCT
	-1OCT
	DIRECT LEVEL
	RANGE
	POLY OCT LEVL
FX1:OC BASS (OCTAVE BASS) **FX2:OC BASS (OCTAVE BASS)** **FX3:OC BASS (OCTAVE BASS)**	2-Oct
	1-Oct
	DIRECT LEVEL
FX1: OVERTONE **FX2: OVERTONE** **FX3: OVERTONE**	LOWER LEVEL
	UPPER LEVEL
	UNISON LEVEL
	DIRECT LEVEL
	DETUNE
	LOW
	HIGH
	OUTPUT MODE
FX1: PAN **FX2: PAN** **FX3: PAN**	RATE
	DEPTH
	WAVEFORM
	EFFECT LEVEL
	DIRECT MIX
FX1: PHASER **FX2: PHASER** **FX3: PHASER**	TYPE
	STAGE
	RATE
	DEPTH
	RESONANCE
	MANUAL
	LOW DAMP
	HIGH DAMP
	LOW CUT
	HIGH CUT
	BI-PHASE
	WAVEFORM
	STEP RATE
	SEPARATION
	EFFECT LEVEL
	DIRECT MIX

Value (Category)	Value (Target)
FX1: PITCH SFT (PITCH SHIFTER) FX2: PITCH SFT (PITCH SHIFTER) FX3: PITCH SFT (PITCH SHIFTER)	VOICE
	PS1:PITCH
	PS1:FINE
	PS1:FEEDBACK
	PS1:PRE-DELAY
	PS1:LEVEL
	PS1:MODE
	PS2:PITCH
	PS2:FINE
	PS2:PRE-DELAY
	PS2:LEVEL
	PS2:MODE
	DIRECT LEVEL
FX1: RING MOD FX2: RING MOD FX3: RING MOD	INTELLIGENT
	FREQUENCY
	FREQ MOD RATE
	FREQ MOD DPT
	EFFECT LEVEL
	DIRECT MIX
FX1: ROTARY FX2: ROTARY FX3: ROTARY	SPEED SELECT
	SLOW RATE
	FAST RATE
	RISE TIME
	FALL TIME
	MIC DISTANCE
	ROTOR/HORN
	DRIVE
	EFFECT LEVEL
	DIRECT MIX
FX1: SITAR SIM FX2: SITAR SIM FX3: SITAR SIM	SENS
	DEPTH
	RESONANCE
	BUZZ
	TONE
	EFFECT LEVEL
	DIRECT MIX
FX1: SLICER FX2: SLICER FX3: SLICER	PATTERN
	RATE
	ATTACK
	DUTY
	TRIGGER
	EFFECT LEVEL
	DIRECT MIX
FX1: SLOW GEAR FX2: SLOW GEAR FX3: SLOW GEAR	SENS
	RISE TIME
	LEVEL
FX1:SG BASS (SLOW GEAR BASS) FX2:SG BASS (SLOW GEAR BASS) FX3:SG BASS (SLOW GEAR BASS)	SENS
	RISE TIME
	LEVEL
FX1: SOUND HLD (SOUND HOLD) FX2: SOUND HLD (SOUND HOLD) FX3: SOUND HLD (SOUND HOLD)	TRIGGER
	RISE TIME
	LEVEL

Value (Category)	Value (Target)
FX1: S-BEND FX2: S-BEND FX3: S-BEND	TRIGGER
	PITCH
	RISE TIME
	FALL TIME
FX1: TOUCH WAH FX2: TOUCH WAH FX3: TOUCH WAH	FILTER MODE
	POLARITY
	SENS
	FREQUENCY
	RESONANCE
	DECAY
	EFFECT LEVEL
	DIRECT MIX
FX1:TW BASS (TOUCH WAH BASS) FX2:TW BASS (TOUCH WAH BASS) FX3:TW BASS (TOUCH WAH BASS)	FILTER MODE
	POLARITY
	SENS
	FREQUENCY
	RESONANCE
	DECAY
	EFFECT LEVEL
	DIRECT MIX
FX1: TREMOLO FX2: TREMOLO FX3: TREMOLO	RATE
	DEPTH
	WAVEFORM
	TRIGGER
	RISE TIME
	EFFECT LEVEL
	DIRECT MIX
FX1: VIBRATO FX2: VIBRATO FX3: VIBRATO	RATE
	DEPTH
	COLOR
	TRIGGER
	RISE TIME
	EFFECT LEVEL
	DIRECT MIX
REVERB	ON/OFF
	TYPE
	TIME
	DENSITY
	PRE-DELAY
	TONE
	EFFECT LEVEL
	DIRECT LEVEL
	LOW CUT
	HIGH CUT
	LOW DAMP
	HIGH DAMP
	MOD RATE
	MOD DEPTH
	DUCK SENS
	DUCK PRE DPT
	DUCK POST DPT
REV SHIMMER (REVERB: SHIMMER)	PITCH 1
	LEVEL 1
	PITCH 2
	LEVEL 2

Value (Category)	Value (Target)
REV DUAL (REVERB: DUAL)	TYPE 1
	TIME 1
	PRE-DELAY 1
	DENSITY 1
	TONE 1
	EFCT LEVEL 1
	LOW CUT 1
	HIGH CUT 1
	TYPE 2
	TIME 2
	PRE-DELAY 2
	DENSITY 2
	TONE 2
	EFCT LEVEL 2
	LOW CUT 2
	HIGH CUT 2
REV TERA ECHO (REVERB: TERA ECHO)	MODE
	SPREAD TIME
	FEEDBACK
	TRIGGER
PEDAL FX	ON/OFF
	TYPE
	EFFECT LEVEL
	DIRECT MIX
PEDAL BEND	PITCH
	PEDAL POS
PEDAL WAH	WAH TYPE
	PEDAL POS
	PEDAL MIN
	PEDAL MAX
FOOT VOLUME	VOLUME MIN
	VOLUME MAX
	VOLUME CURVE
	PEDAL POS
DIV1 (DIVIDER 1) DIV2 (DIVIDER 2) DIV3 (DIVIDER 3)	MODE
	CH SELECT
	A:DYNAMIC
	A:DYNAMIC SNS
	A:FILTER
	A:CUTOFF FREQ
	B:DYNAMIC
	B:DYNAMIC SNS
	B:FILTER
	B:CUTOFF FREQ
MIXER 1 MIXER 2 MIXER 3	MODE
	A/B BALANCE
	SPREAD
SEND/RETURN 1 SEND/RETURN 2	STEREO LINK *1
	ON/OFF
	MODE
	SEND LEVEL
	RETURN LEVEL
	ADJUST
LOOPER	PLAY LEVEL

Value (Category)	Value (Target)
AMP CTL (AMP CONTROL)	CTL 1
	CTL 2
MASTER	PATCH LEVEL
	BPM
	KEY
	CARRYOVER
	BASS MODE
SUB OUT	OUTPUT LEVEL
TUNER	ON/OFF
PATCH	PATCH SELECT
USB AUDIO	MAIN MIX LEVEL
	SUB MIX LEVEL
MAIN G.EQ L/S *2	LOW GAIN
	MID GAIN
	HIGH GAIN
	LEVEL
MAIN G.EQ R/S *2	LOW GAIN
	MID GAIN
	HIGH GAIN
	LEVEL
SUB G.EQ L/S *2	LOW GAIN
	MID GAIN
	HIGH GAIN
	LEVEL
SUB G.EQ R/S *2	LOW GAIN
	MID GAIN
	HIGH GAIN
	LEVEL
AIRD PREAMP *3	TYPE
	GAIN
	BASS
	MIDDLE
	TREBLE
	LEVEL
TOTAL REVERB	LEVEL

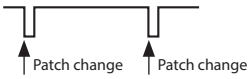
*1 SEND/RETURN 1 only.

*2 Operates as stereo if STEREO LINK is ON.

*3 Lets you control the AIRD PREAMP of the channel that is enabled by the divider. If multiple channels are enabled, AIRD PREAMP 1 takes priority.

Parameter	Value	Explanation
KNOB LOCK	OFF, ON	Specifies whether knob operations will be disabled. If this is ON, knob operations will be disabled.

AMP CONTROL

Parameter	Value	Explanation
AMP CTL1 AMP CTL2	Specifies the operation of the AMP CTL 1, 2 jacks.	
	LATCH	Latch operation
	PULSE	Send a pulse when changing patches. **PULSE** 
	INVERT	**INVERT** 

EXP HOLD

Parameter	Value	Explanation
EXP1 HOLD EXP2 HOLD EXP3 HOLD	OFF	The operational status of the EXP 1/2/3 PEDAL's FUNCTION (p. 29) is not carried over when patches are switched.
	ON	If the EXP 1/2 PEDAL's FUNC (p. 29) are the same between 2 patches, the operational status is carried over when patches are switched. For example, if EXP PEDAL FUNCTION is set to FOOT VOLUME in both patches, the one before and the one after the change, the volume corresponding to the position the pedal is in (angle) at the time of the patch change will be maintained after the patch change. On the other hand, if the patch being changed to is set to WAH, the volume will be in accordance with the value set within the patch, and you'll obtain a wah effect that is in accordance with a value that reflects the current position (angle) of the pedal.

GROUND LIFT

Parameter	Value	Explanation
MAIN	In some cases, hum noise might occur if an amp or other effect unit is connected. If so, you might be able to reduce the noise by disconnecting the ground connector from the GT-1000's chassis.	
	1	The ground of the connectors is connected to the chassis (no ground lift).
	2	The ground of the SEND 1 jack is disconnected from the chassis.
	3	The ground of the SEND 2 jack is disconnected from the chassis.
	4	The ground of the RETURN 1 jack and the MAIN OUTPUT L, R jacks is disconnected from the chassis.
	5	The ground of the RETURN 2 jack and the MAIN OUTPUT L, R jacks is disconnected from the chassis.
	6	The ground of the RETURN 1, 2 jacks and the MAIN OUTPUT L, R jacks is disconnected from the chassis.
SUB	Specifies whether the ground of the SUB OUTPUT jack is connected to the GT-1000's chassis or disconnected.	
	OFF	The ground of the SUB OUTPUT jacks is connected to the chassis (no ground lift).
	ON	The ground of the SUB OUTPUT jacks is disconnected from the chassis.

CALIBRATION

You can readjust the expression pedal so that it will operate optimally.

Parameter	Value	Explanation
THRESHOLD	1–16	Adjusts the sensitivity at which the EXP 1 SW will respond.

OTHER

Parameter	Value	Explanation
AUTO OFF	The GT-1000 can turn off its power automatically. The power will turn off automatically when 10 hours have passed since you last played or operated the unit. The display will show a message approximately 15 minutes before the power turns off. With the factory settings, this function is turned "ON" (power-off in 10 hours). If you want to have the power remain on all the time, turn it "OFF." * When the power is turned off, any settings you were editing will be lost. You must save settings that you want to keep.	
	OFF	The power will not turn off automatically.
	ON	The power will automatically turn off when 10 hours have passed since you last played or operated the GT-1000.
LCD CONTRAST	Here you can adjust the brightness of the characters in the display.	
	1–10	Higher values increase the brightness.
LED LUMINANCE	Adjusts the brightness of the LED that is provided for each switch.	
	LOW	Dim illumination.
	HIGH	Bright illumination.
Bluetooth SW	You can use Bluetooth to edit the GT-1000's settings from a smartphone app (BOSS TONE STUDIO). For details, refer to the manual of the app.	
	OFF	Bluetooth functionality is not used.
	ON	Bluetooth functionality is used.
Bluetooth ID	Specifies the number that is shown following the device name of the GT-1000, in the Bluetooth-connected app. If you have more than one GT-1000 unit, this lets you conveniently distinguish the units.	
	OFF, 1–9	Specifies the number that is shown following the device name. If this is OFF, no number is added at the end.
DEMO	OFF, ON	If this is ON, the demo screen appears in the display when no operation is performed.

FACTORY RESET

Initializes the GT-1000 to its factory-set condition.

Parameter	Value	Explanation
FROM, TO	SYSTEM	System parameter settings
	U01-1–U50-5	Settings for Patch Number U01-1 through U50-5
	STOMPBOX	Stomp box settings
	PEDALBOARD	Settings for Pedalboard mode

TUNER

Here you can make settings for the TUNER.

Parameter	Value	Explanation
MONO TUNER MODE	NORMAL, STREAM	Specifies the meter display method for the monophonic tuner.
BASS MODE	OFF, ON	Turn this ON if using the GT-1000 with a bass guitar.
PITCH	435–445 Hz (default: 440 Hz)	Specifies the reference pitch.
OUTPUT	MUTE	Sound will not be output while tuning.
	BYPASS	While tuning, the sound of the guitar being input to the GT-1000 will be output without change. All effects will be off.
	THRU	Allows you to tune while hearing the current effect sound. * Only for monophonic tuner.
POLY TYPE	6-REGULAR, 6-DROP D, 7-REGULAR, 7-DROP A, 4-B REGULAR, 5-B REGULAR	Selects the type of tuning for the polyphonic tuner.
POLY OFFSET	–-, -5–-1	Adjusts the reference pitch of the polyphonic tuner in semitone units relative to standard tuning.

METRONOME

Here you can make settings for the METRONOME.

* You can select the output destination of the metronome sound.
* By pressing knob 1 you can set the metronome's BPM to the master BPM value.

Parameter	Value	Explanation
BPM	20–250	Specifies the tempo.
BEAT	1/1–8/1, 1/2–8/2, 1/4–8/4, 1/8–8/8	Selects the time signature.
OFF/ON	OFF, ON	Turns the metronome on/off.
LEVEL	0–100	Adjusts the volume of the metronome sound.

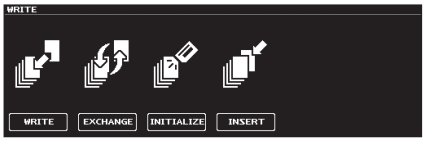
Saving a Sound (WRITE)

Saving a Patch (PATCH WRITE)

When you want to save a patch you have created, save it as a user patch by following the procedure below. If you do not save the patch, the edited settings will be lost when you turn off the power or switch to another patch.

* If CONTROL MODE (p. 28) is set to PEDALBOARD, items other than "INITIALIZE" cannot be selected.

1. Press the [WRITE] button.



2. Press knob [1] to select "WRITE" (PATCH WRITE).

3. Use knob [1] to select the save-destination (U01-1–U50-5).

You can use knobs [3]–[6] to edit the name.

Editing a name

To edit the patch name, use knob [6] to move the cursor and use knob [5] to change the character.

Controller	Function
Turn the [3] knob	Selects the type of characters
Press the [3] knob	Delete one character (delete)
Turn the [4] knob	Switch uppercase/lowercase
Press the [4] knob	Insert one space (insert)
Turn the [5] knob	Changes the character
Turn the [6] knob	Moves the cursor

* If you decide to cancel without writing, press the [EXIT] button a several times. You'll be returned to the Play screen.

4. Press the [WRITE] button once again.

The patch is written.

Exchanging Patches (PATCH EXCHANGE)

On the GT-1000, you can "swap" or exchange the positions of two User patches.

1. Select the exchange source patch.

2. Press the [WRITE] button.

3. Press knob [2] to select "EXCHANGE" (PATCH EXCHANGE).

4. Use knob [1] to select the other user patch that you want to exchange.

* If you decide to cancel without exchanging, press the [EXIT] button a several times. You'll be returned to the Play screen.

5. Press the [WRITE] button once again.

A confirmation message appears.

6. Press the [6] knob.

The patches will be exchanged. If you decide to cancel the exchange operation, press knob [5].

Initializing Patches (PATCH INITIALIZE)

You can return (initialize) a User patch to its original factory settings. This is convenient when you want to create a new patch from scratch.

NOTE

Any tone settings you've stored in a patch are lost once the initialization is executed.

1. Press the [WRITE] button.

2. Press knob [3] to select "INITIALIZE" (PATCH INITIALIZE).

3. Use knob [1] to select the user patch that you want to initialize.

* If you decide to cancel without initializing, press the [EXIT] button a several times. You'll be returned to the Play screen.

4. Press the [WRITE] button once again.

A confirmation message appears.

5. Press the [6] knob.

The patch will be initialized. If you decide to cancel the initialize operation, press knob [5].

Inserting a Patch (PATCH INSERT)

You can insert a patch into any position of the user patches.

For example, if you insert patch U01-1 at U02-1, patch U02-1 and subsequent patches are shifted (renumbered) backward by one. (Patch U02-1 becomes U02-2.)

NOTE

When you execute the insert operation, the last user patch (U50-5) is deleted.

1. Press the [WRITE] button.

2. Press knob [4] to select "INSERT" (PATCH INSERT).

3. Use knob [1] to select the insert-destination user patch.

* If you decide to cancel without inserting, press the [EXIT] button a several times. You'll be returned to the Play screen.

4. Press the [WRITE] button once again.

A confirmation message appears.

5. Press the [6] knob.

The patch is inserted at the specified position. If you decide to choose the insert operation, press knob [5].