





Data List



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DRUM KIT

DRUM KIT Screen

	XSTICK D-50 Kit Name MENU	
Parameter	Value	Explanation
ХЅТІСК	OFF, ON	Specifies whether a snare pad produces the cross-stick sound (ON) or not (OFF). If the trigger input of a pad that supports both cross-stick technique and digital connection (such as the PD-140DS) is assigned to a snare, cross-stick playing is always possible. In this case, the screen does not show the XSTICK icon.

KIT SETTINGS

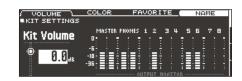
- 1. Press the [KIT] button.
- 1. Press the [F5] (MENU) button.

The menu screen appears.

/ VOLUME \ ■KIT SETTINGS	COLOR	FAVORI	<u>TE</u> (NAME	
Kit Volume	MASTER PH		H H	567	

- 2. Use the PAGE [UP] [DOWN] buttons to access the editing screen.
- 3. Use cursor buttons to select a parameter, and use the [-] [+] buttons or the dial to edit the value.
- 4. Press the [KIT] button to return to the DRUM KIT screen.

KIT SETTINGS 1 (page 1)



Parameter	Value	Explanation		
Edits the name of the drum kit.				
[F4] button	Reference			
	For details on how to assign a name	e, refer to "Renaming a Drum Kit" in the "Reference Manual" (PDF).		
VOLUME tab				
Kit Volume	-INF-+6.0 dB	Drum kit volume		
COLOR tab				
Kit Color	1: WHITE 2: RED 3: GREEN 4: BLUE 5: PINK 6: PURPLE 7: ORANGE 8: YELLOW 9: EMERALD 10: RAINBOW			
FAVORITE tab				
Favorite	OFF, ON	Registers (ON)/de-registers (OFF) the drum kit in favorites.		

KIT SETTINGS 2 (page 2)



Parameter	Value	Explanation		
BRUSH tab				
Brush Switch	OFF, ON	Specifies whether you're performing with sticks (OFF) or brushes (ON). If this is "ON," you can perform by scraping (sweeping) the brushes.		
		 "Playing with brushes" function will be enabled in the future. The information will be announced at the Roland website. http://www.roland.com/support/ 		
KIT TEMPO tab	KIT TEMPO tab			
	OFF	Use a common tempo (p. 21) for the entire TD-50.		
		The tempo does not change when you switch drum kits.		
Kit Tempo	ON	Use the tempo that is specified by each drum kit.		
		The click tempo and the tempo of tempo-synchronized effects can be individually specified for each drum kit.		
Tempo	20–260	Tempo specified for each drum kit		

PAD CONTROL (page 3)



Parameter	Value	Explanation		
PEDALBEND tab	PEDALBEND tab			
Pedal Bend Range	-24-0-+24	Specifies the amount of pitch change that occurs according to the depth to which you press the hi-hat pedal.		
		You can set this for each pad (head and rim separately) in semitone units.		
POSITION tab				
		Turns on/off tonal changes that occur depending on your strike location or the nuances of your rim shots.		
Position Control*1	OFF, ON	You can set this for the snare (head, rim), tom (head, rim), ride (bow), and AUX (head, rim) trigger inputs.		
		Head: Strike position		
		Rim: Rim shot nuance		
		Bow: Strike position		
POS AREA tab				
		Specifies the striking area for the head or rim.		
Position Area*1	INSIDE -5-DEFAULT- OUTSIDE +5	"INSIDE" settings make it easier to play notes toward the inside; "OUTSIDE" settings make it easi play toward the outside.		
MUTE GRP tab				
		Specify the mute group number.		
MUTE SEND	– - (OFF), 1–8	When you strike the pad of the number specified in MUTE SEND, the sound of the pad assigned to the same number in MUTE RECEIVE is muted.		
MUTE RECEIVE		* Even if you specify the same number in MUTE SEND and MUTE RECEIVE for the same location (e.g., head or rim) of the same pad, muting does not occur.		

*1 This supports the following trigger inputs.

- SNARE
- TOM1-4
- The bow (head) of RIDE
- AUX1-4
- * Depending on the pad that is connected or the instrument that is selected, there might be cases in which this has no effect.

PAD MIDI (page 4)

	MIDI CH	
PAD MIDI SETTING(NOTE	NO.) HE	EAD [SNARE]
KICK	36(C 2)	ן א
SNARE <head></head>	38(D 2)	мірі
SNARE <rim></rim>	40(E 2)	1 <u>a</u> a
SNARE <brush></brush>	23(B 0)	
SNARE <xstick></xstick>	37(C#2)	
TOM1 <head></head>	48(C 3)	
Charles and the Charles of the State		DEFAULT

Parameter	Value	Explanation		
NOTE tab	NOTE tab			
Note No.	0(C -)-127(G 9)	MIDI note number transmitted and received by each pad		
Note No.	OFF	Note messages are not transmitted or received		
GATE tab				
Gate Time	0.1 – 8.0 s Duration of the note transmitted by each pad			
MIDI CH tab				
MIDI Channel	CH1–CH16	MIDI channel on which each pad transmits or receives note messages or control change messages		
MIDI Channel	GLOBAL	Transmitted and received on the transmit/receive channel specified in SETUP (p. 32)		

MIDI note numbers transmitted and received by the hi-hat

Item	Explanation
HI-HAT OPEN <bow></bow>	MDI note number transmitted and received by energies is bet (how edge)
HI-HAT OPEN <edge></edge>	MIDI note number transmitted and received by open hi-hat (bow, edge)
HI-HAT CLOSE <bow></bow>	
HI-HAT CLOSE <edge></edge>	MIDI note number transmitted and received by closed hi-hat (bow, edge)
HI-HAT PEDAL	MIDI note number transmitted and received by pedal hi-hat

MIDI note numbers transmitted and received by the snare

Parameter	Explanation
SNARE <head> SNARE <rim></rim></head>	MIDI note number transmitted and received by head shot and rim shot
SNARE <brush></brush>	MIDI note number transmitted and received by brush sweep
SNARE <xstick></xstick>	MIDI note number transmitted and received by cross stick

When setting multiple pads to the same note number

When playing the internal sound generator of the TD-50, if an incoming note number is assigned to more than one pad, that note plays the instrument of the pad with the lowest trigger input number. If the same note number is assigned to both the head and the rim, the head instrument is sounded.

MEMO

An asterisk (*) appears at the right of the note number for trigger inputs that are not sounded.

Example:

Note number "38 (D 2)" is set for the head and rim of trigger input 2 SNARE and the head of trigger input 3 TOM 1. In this case, when note number 38 (D2) is received, the instrument assigned to the head of trigger input 2 SNARE is played.

About the gate time

Percussion sound modules normally produce sound only in response to "Note on" messages, and ignore "Note off" messages. However generalpurpose sound modules or samplers do receive the note-off messages that are transmitted and respond by turning off the sound.

Since gate time is normally not necessary for a percussion sound module, this is set to the minimum value when the unit is shipped from the factory. If a note-off message is received while the sound module has this setting, it is received as an extremely brief note that has almost no time to be heard, and is nearly inaudible. (Alternatively, it is possible that this could be heard as an unwanted noise.) To avoid this, specify the note duration of the MIDI performance data that is produced when you strike each pad.

KIT CUSTOMIZE

INSTRUMENT

1. Press the [INSTRUMENT] button.

The INSTRUMENT screen appears.



- 2. Select the pad that you want to edit.
- 3. Use the PAGE [UP] [DOWN] buttons and function buttons to select the item that you want to edit.
 - * The parameters that you can edit depend on the pad and instrument.
- 4. Use cursor buttons to select a parameter, and use the [-] [+] buttons or the dial to edit the value.

MEMO

For some parameters, you can also use the rotary knobs to edit the value.

5. Press the [KIT] button to return to the DRUM KIT screen.

INSTRUMENT (page 1)

/ INST	BASIC 1	BASIC 2	ADVANCED
INSTRUMEN	Г	(H&R)HE	AD[SNARE]
ISNARE A			a
Jarrah	i Ply S		
······		·····	
Inst 042	Shell Depth	Head Type	
042	0.0	LUAILU	H & R

Parameters that can be edited for each instrument

Parameter	Value	Explanation			
INST tab	INST tab				
Inst	001–418 (preset) U001–U500 (user sample)	Instrument number Reference For more about instruments, refer to "Instrument List" (p. 42).			
ADVANCED tab		For more about instruments, refer to instrument List (p. 42).			
Pitch	-4800-4800	Instrument pitch (units of one cent)			
Pitch Sweep*1	-100–100	After the sound begins, the pitch gradually rises (falls). Positive (+) values make the pitch start high and then fall; negative (-) values make the pitch start low and then rise. Larger values produce greater change. * In some cases, changing the Pitch setting by a large amount might limit the Pitch Sweep effect.			
Decay*1	1–100	Length of decay			
Dynamic Enhancer Sw*1, *2	OFF, ON	Specifies whether the sense of strong strikes is enhanced (ON) or not enhanced (OFF).			

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*1 If a user sample is assigned to the instrument, you can't specify Dynamic Enhancer Sw. Also, if the user sample's Play Type (p. 18) is set to "LOOP ALT," the Pitch Sweep and Decay have no effect.

*2 For some instruments, this cannot be set.

MEMO

If you press the [F5] (H&R) button to turn it "ON," you can simultaneously make settings for the head area and rim area, etc.

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KICK A

INST L	BASIC 1	BASIC 2	ADVANCED
INSTRUMENT		(HEAD) HE	
Jarrah	Ply K		
Inst	Shell Depth	Head Type	N.ZP
001	18.0	COATED	H&R

Parameter	Value	Explanation		
INST tab	NST tab			
Shell Depth	1.0–30.0	Depth of the shell		
Head Type	CLEAR, COATED, PINSTRIPE	Type of head		
BASIC 1 tab				
Tuning	-100–100	Tuning of the head		
Muffling	OFF, TAPE1–4, BLANKET1–3, WEIGHT1, 2	Muffling (muting) setting		
Beater Type	FELT1, 2, WOOD, PLASTIC1, 2	Type of beater		
BASIC 2 tab				
Snare Buzz	OFF, 1–8	Resonance to the snare		
Low Level	-5-NORMAL-+5	Volume of low-frequency sound		
Low Decay	-2-NORMAL-+2	Decay length of low-frequency sound		
ADVANCED tab	ADVANCED tab			
Kit Resonance	OFF, 1–8	Amount of resonance for the entire drum kit		

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SNARE A/CROSS STICK



Parameter	Value	Explanation
INST tab		
Shell Depth*1	1.0–30.0	Depth of the shell
Head Type*1	CLEAR, COATED, PINSTRIPE	Type of head
BASIC 1 tab		
Tuning	-100–100	Tuning of the head
Muffling	OFF, TAPE1–7, DONUT1, 2	Muffling (muting) setting
Overtone*1	-5-NORMAL-+5	Amount of overtone components
BASIC 2 tab		
Strainer Adj.	LOOSE1-3, MEDIUM1-3, TIGHT1-3	Tension of the strainer (resonating cords)
Wire Type	TYPE1–3	Type of strainer
Wire Level	-4-NORMAL-+5	Volume of strainer
ADVANCED tab		
XStick Inst*2	1–5	Cross-stick sound selection
		Cross-stick sound volume
XStick Inst Volume*2	-INF-+6.0 dB	MEMO
		The "XStick Volume" can also be edited from the MIXER DRUM KIT VOLUME screen (KIT VOL tab) of the MIXER (p. 13).

*1 Unavailable if the instrument group is CROSS STICK.

*2 Only if the SNARE A/CROSS STICK instrument is assigned to the rim of the snare (or to the rim of a digitally connected pad that is assigned to snare)

* PINSTRIPE is a registered trademark of Remo Inc., U.S.A.

TOM A

/ INST) ∎INSTRUMENT	BASIC 1	(H&B) HE	ADVANCED ADITOM1 J
Jarrah	Ply 10″		
Inst 082	Shell Depth 9.0	Head Type COATED	₩ <u>8</u> Н&В

Parameter	Value	Explanation	
INST tab	INST tab		
Shell Depth	1.0-30.0	Depth of the shell	
Head Type	CLEAR, COATED, PINSTRIPE	Type of head	
BASIC 1 tab			
Tuning	-100–100	Tuning of the head	
Muffling	OFF, TAPE1–5, FELT1–4	Muffling (muting) setting	
Snare Buzz	OFF, 1–8	Resonance to the snare	

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HI-HAT



Parameter	Value	Explanation		
INST tab	NST tab			
Size	1.0–40.0	Hi-hat diameter		
Thickness	THIN-5-STANDARD-THICK+5	Thickness of the hi-hat		
BASIC 1 tab				
Fixed	NORMAL, PRESS, CLOSE, HALF, OPEN	Openness of the hi-hat If something other than "NORMAL" is selected, the openness of the hi-hat does not change, regardless of how you press the hi-hat pedal.		
ADVANCED tab				
Pedal HH Volume	-INF-+6.0 dB	Volume of pedal hi-hat MEMO The "Pedal HH Volume" can also be edited from the MIXER DRUM KIT VOLUME screen (KIT VOL tab) of the MIXER (p. 13).		

MEMO

The closed hi-hat position (Fixed = CLOSE) can be enabled by pressing an optional footswitch or hitting a pad switch. Please refer to "CONTROL" (p. 31).

CRASH/CHINA/SPLASH/STACKED CYMBAL



Parameter	Value	Explanation		
INST tab	INST tab			
Size	1.0-40.0	Cymbal diameter		
Thickness	THIN-5-STANDARD-THICK +5	Thickness of the cymbal		
BASIC 1 tab				
Muffling	OFF, TAPE1–19	Muffling (muting) setting		
Sizzle Type	OFF, RIVET, CHAIN, BEADS	Type of sizzle		
Sizzle Amount	-3-+3	Amount of sizzle		

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RIDE

	BASIC 1	BASIC 2	ADVANCED
INSTRUMENT		H&R HE	AD URIDE 1
RIDE			
Trad Me	edThin A	id	
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Inst 142	Size 77 N	Thickness STANNARN	
142	22.0	JIANDAND	H&R

Parameter	Value	Explanation
INST tab		
Size	1.0-40.0	Cymbal diameter
Thickness	THIN-5-STANDARD-THICK +5	Thickness of the cymbal
BASIC 1 tab		
Muffling	OFF, TAPE1–19	Muffling (muting) setting
Sizzle Type	OFF, RIVET, CHAIN, BEADS	Type of sizzle
Sizzle Amount	-3-+3	Amount of sizzle
BASIC 2 tab		
Ping Color*1	LIGHT2, 1, STANDARD, HEAVY1, 2	Tonal character of the ride's ping sound
Ping Level*1	-4-NORMAL-+5	Volume of the ride's ping sound

*1 For some instruments, these settings are not available.

### MIC POSITION (page 2)

You can edit the mic position and volume for each instrument.

* For some instruments, these settings are not available.



Parameter	Value	Explanation		
MIC POS tab	MIC POS tab			
Mic Position	OUTSIDE4-STANDARD-INSIDE4	Tonal change caused by mic position		
ELEMENT tab				
Overhead	-INF-+6.0 dB	Volume of overhead mic		
Room	-INF-+6.0 dB	Volume of room mic		
WIDTH tab				
Mic Width	-5-+5	Spread of the overhead mic and room mic		

## TRANSIENT (page 3)

- You can adjust the attack and release (transient) for each instrument.
- * For some instruments, these settings are not available.



Parameter	Value	Explanation
[F4] button	OFF, TRANSIENT ON	Turns the transient effect on/off.
Time ([R1] knob)	1–10	Time over which the attack changes
Attack ([R2] knob)	-100-+100	Adjustment of the attack
Release ([R3] knob)	-100-+100	Adjustment of the release
Gain	-12.0-+6.0 dB	Volume following transient adjustment

# SUB INST (page 4)



Parameter	Value	Explanation			
[F4] button	OFF, SUB ON	Turns the sub-instrument on/off.			
SUB INST tab					
SUB INST	001–418 (preset) U001–U500 (user sample)	Sub-instrument number Reference For more about instruments, refer to "Instrument List" (p. 42).			
	These parameters specify how	These parameters specify how the sub instrument will be sounded.			
	MIX	Volume Playing Dynamics			
	FADE1	Volume Playing Dynamics Playing			
Layer Type	FADE2, FADE3	Volume Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playing Dynamics Playi			
	SWITCH	Volume Playing Dynamics Volume Playing Dynamics			
Fade Point	1–127+32	Specifies the force of the strike at which the sub instrument begins to be sounded. If this is "1," the sub instrument is sounded by a strike of any force. If this is "127" ("127+32" for a pad that supports digital connection), the sub instrument is sounded only by the strongest strike. * This is not available if Layer Type is "MIX."			
Sub Volume	-INF-+6.0 dB	Volume of the sub-instrument			
V-EDIT tab					

#### Reference

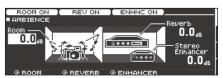
For details on the parameters that can be edited, refer to "INSTRUMENT (page 1)" (p. 6).

OTHER tab		* For some instruments, these settings are not available.
Mic Position	OUTSIDE4-STANDARD-INSIDE4	Tonal change caused by mic position
Mic Overhead	-INF-+6.0 dB	Volume of the overhead mics
Mic Room	-INF-+6.0 dB	Volume of the room mics
Mic Width	-5-+5	Spread of the overhead mics and the room mics
Transient Sw	OFF, TRANSIENT ON	Transient on/off
Transient Time	1–10	Time over which the attack changes
Transient Attack	-100-+100	Adjustment of the attack
Transient Release	-100-+100	Adjustment of the release
Transient Gain	-12.0-+6.0 dB	Volume following transient adjustment

# AMBIENCE

#### 1. Press the [AMBIENCE] button.

The AMBIENCE screen appears.



- 2. Use the PAGE [UP] [DOWN] buttons to access the editing screen.
- 3. Use cursor buttons to select a parameter, and use the [-] [+] buttons or the dial to edit the value.
- 4. Press the [KIT] button to return to the DRUM KIT screen.

### AMBIENCE LEVEL (page 1)



Parameter	Value	Explanation
[F1] button	ROOM OFF, ROOM ON	Turns the room ambience (the type and size of room) effect on/off.
[F2] button	REV OFF, REV ON	Turns the reverb (reverberation) effect on/off.
[F3] button	ENHNC OFF, ENHNC ON	Turns the stereo enhancer (spaciousness) effect on/off.
Room ([R1] knob)	-INF-+6.0 dB	Volume of room ambience
Reverb ([R2] knob)	-INF-+6.0 dB	Volume of reverb
Stereo Enhancer ([R3] knob)	-INF-+6.0 dB	Volume of stereo enhancer

# ROOM (page 2)



Parameter	Value	Explanation
[F4] button	OFF, ROOM ON	Turns room ambience on/off.
ROOM tab		
Type ([R1] knob)	BEACH, LIVING ROOM, BATH ROOM, STUDIO, GARAGE, LOCKER ROOM, THEATER, CAVE, GYMNASIUM, DOME STADIUM, BOOTH A, BOOTH B, STUDIO A, STUDIO B, BASEMENT, JAZZ CLUB, ROCK CLUB, BALLROOM, GATE, CONCERT HALL, SPORTS ARENA, EXPO HALL, BOTTLE, CITY, SPIRAL	Type of room reverberation
Level ([R2] knob)	-INF-+6.0 dB	Volume of room ambience
Room Size	TINY, SMALL, MEDIUM, LARGE, HUGE	Size of the room
Room Shape	0–100	Room shape and reverberation length
Wall Type CURTAIN, CLOTH, WOOD, PLASTER, CONCRETE, GLASS		Wall material
Mic Position NEXT DOOR, LOW FLOOR, LOW, MID LOW, MID, MID HIGH, HIGH, CEILING A, CEILING B		Tonal change caused by mic position
SEND tab		
Room Send Volume	-INF-+6.0 dB	Amount of room ambience applied to each pad If you press the [F5] (H&R) button to turn it "ON," you can simultaneously make settings for the head area and rim area, etc.

# REVERB (page 3)

/ REVERB				REV ON
■REVERB ^{Type} Rolon	2	Level	0 0	
Pre Delay Time	OmSec LF 1.4Sec HF		0 36	
Density Diffusion	127 SPI 127 TO	read	70 99	
& TYPE				

Parameter	Value	Explanation
[F4] button	OFF, REV ON	Turns reverb on/off.
ROOM tab		
Type ([R1] knob)	ROOM 1, 2, HALL 1, 2, PLATE	Type of reverb
Level ([R2] knob)	-INF-+6.0 dB	Volume of reverb
Pre Delay	0–100 mSec	Adjusts the delay time from the direct sound until the reverb sound is heard
Time	0.1–10.0 Sec	Time length of reverberation
Density	0–127	Density of reverb sound
Diffusion	0–127	Change in the density of the reverb sound over time The higher the value, the denser the sound becomes as time elapses (The effect is more obvious for longer reverb times).
LF Damp	0–100	Adjusts the low-frequency region of the reverb sound.
HF Damp	0–100	Adjusts the high-frequency region of the reverb sound.
Spread	0–127	Spread of the reverb sound
Tone	0–127	Tonal character of reverb sound
SEND tab		
Reverb Send Volume	-INF-+6.0 dB	Amount of reverb applied to each pad If you press the [F5] (H&R) button to turn it "ON," you can simultaneously make settings for the head area and rim area, etc.

# STEREO ENHANCER (page 4)



Parameter	Value	Explanation	
[F4] button	OFF, ENHNC ON	Turns stereo enhancer on/off.	
ROOM tab			
Width ([R1] knob)	MONO, 1–4	Spread of stereo enhancer	
Level ([R2] knob)	-INF-+6.0 dB	Volume of stereo enhancer	
Color	1–6	Tonal character of stereo enhancer	
MAIN SEND tab			
		Amount of stereo enhancer applied to each pad (main instrument)	
Stereo Enhancer Main Inst Send	-INF-+6.0 dB	If you press the [F5] (H&R) button to turn it "ON," you can simultaneously make settings for the heat area and rim area, etc.	
SUB SEND tab			
		Amount of stereo enhancer applied to each pad (sub-instrument)	
Stereo Enhancer Sub Inst Send	-INF-+6.0 dB	If you press the [F5] (H&R) button to turn it "ON," you can simultaneously make settings for the head area and rim area, etc.	

# MIXER

#### 1. Press the [MIXER] button.

The MIXER screen appears.

	PAN		MIN V	OL K	UT VO	DL
MIXER VOLUME			(H8.P	HEAD	ISNAR	E 1
0.0 4 5 1	23	<u>4</u> <u>H</u>	<u>c</u> <u>c</u>	RA	<u>A</u> A	≞⊦
i i i i i i i i i i i i i i i i i i i					mm	nom -
	, 65, 65	, 65, 65	جع جع ،	655 65		, <b>3</b> 5
					<u> </u>	<u> </u>

- 2. Use the PAGE [UP] [DOWN] buttons to access the editing screen.
- 3. Use cursor buttons to select a parameter, and use the [-] [+] buttons or the dial to edit the value.
- 4. Press the [KIT] button to return to the DRUM KIT screen.

### MIXER VOLUME (page 1)

For each drum kit, you can adjust the volume of each pad and adjust the overall volume of the entire drum kit. You can also adjust how the volume responds to the striking force.



Parameter	Value	Explanation		
VOLUME tab				
Volume	-INF-+6.0 dB	Volume of each pad		
PAN tab				
Pan	L30-CTR-R30	Stereo position of each pad		
MIN VOL tab				
		Minimum volume of each pad		
Pad Minimum Volume*1	0–15	This lets you increase the volume of the softest hits while preserving the volume of the strongest hits. This can make it easier to hear ghost notes on the snare or legato notes on the ride cymbal.		
	-5-0	Maximum volume of each pad		
		This lets you decrease the volume of the strongest hits while preserving their nuances.		
Pad Maximum Volume*1		You can limit the volume while preserving the nuances of the strongest hits.		
		* This is available only for pads that support digital connection and for input from the MIDI IN connector.		
KIT VOL tab				
Kit Volume*2	]	Drum kit volume		
Pedal HH Volume	-INF-+6.0 dB	Pedal hi-hat volume		
Xstick Volume		Cross-stick volume		

*1 Use the cursor [▲] [▼] buttons to choose whether you're setting the Pad Minimum Volume or the Pad Maximum Volume.

*2 You can also set "Kit Volume" in the KIT SETTINGS screen (VOLUME tab) (p. 3).

#### MEMO

If you press the [F5] (H&R) button to turn it "ON," you can simultaneously make settings for the head area and rim area, etc.

### PAD EQ (page 2)

This is a three-band equalizer that each drum kit provides for each strike location of each pad. You can disable the pad equalizer effect that is output from the DIRECT OUT jacks (p. 29).



This indicates whether the pad equalizer effect is output ( MST PHO DIR ) from each jack or is not output ( OTT DIR ). MST: MASTER OUT jacks PHO: PHONES jacks (always output) DIR: DIRECT OUT jacks

Parameter	Value	Explanation	
[F4] button	OFF, EQ ON	Turns pad equalizer on/off.	
Low Freq	20 Hz–1 kHz	Center frequency of the low range	
Low Gain ([R1] knob)	-15–+15 dB	Amount of boost/cut for the low range	
Mid Freq	20 Hz–16 kHz	Center frequency of the mid range	
Mid O	0.5-8.0	Width of the frequency range	
		A higher Mid Q narrows the affected area.	
Mid Gain ([R2] knob)	-15–+15 dB	Amount of boost/cut for the mid range	
High Freq	1 kHz–16 kHz	Center frequency of the high range	
High Gain ([R3] knob)	-15–+15 dB	Amount of boost/cut for the high range	

#### MEMO

If you press the [F5] (H&R) button to turn it "ON," you can simultaneously make settings for the head area and rim area, etc.

- * If the routing setting (p. 29) PadEq/Comp to direct is "OFF," the pad equalizer effect does not apply to the sound that is output from the DIRECT OUT jacks.
- * If the routing setting (p. 29) PadEq/Comp to direct is "OFF," and Master OUT is set to "DIRECT," the pad equalizer effect does not apply to the sound that is output from the DIRECT OUT jacks and MASTER OUT jacks.

### PAD COMP (page 3)

This is a compressor that each drum kit provides for each pad.

The pad compressor effect can be applied only to the output from the DIRECT OUT jacks. You can also disable the pad compressor effect from being applied to the PHONES jack output (p. 29).



This indicates whether the pad compressor effect is output (MST PHD DIR) from each jack or is not output (MST PHD DIR). MST: MASTER OUT jacks PHO: PHONES jacks DIR: DIRECT OUT jacks

Parameter	Value	Explanation	
[F4] button	OFF, COMP ON	Turns pad compressor on/off.	
Type ([R1] knob)	KICK 1, 2, SNARE1, 2, TOM 1, 2, CYM 1, 2, SOFT, HARD, LIMITER	Character of the compressor  When you change this parameter, the pad compressor's parameters Ratio, Knee, Attack, and Release change to optimal settings for your selection. You can then make further adjustments these parameters as necessary.	
Threshold ([R2] knob)	-48–0 dB	Volume level at which compression begins	
Gain ([R3] knob)	-24-+24 dB	Output level of the compressor	
Ratio	1:1–100:1	Compression ratio	
Knee	HARD, SOFT1–3	Attack of the sound at the moment compression is applied	
Attack	0–100 mSec	Time from when the volume goes up the threshold level until the compressor effect applies	
Release	10–1000 mSec	Time from when the volume falls below the threshold level until the compressor effect no longer applies	

* Pad compressor settings are made for individual pads. They cannot be made for individual strike locations (such as the head or rim).

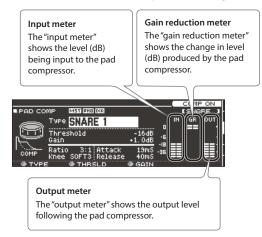
* If the routing setting (p. 29) PadEq/Comp to direct is "OFF," the pad compressor effect does not apply to the sound that is output from the DIRECT OUT jacks.

* If the routing setting (p. 29) PadEq/Comp to direct is "OFF," and Master Out is set to "DIRECT," the pad compressor effect does not apply to the sound that is output from the DIRECT OUT jacks and the MASTER OUT jacks.

* If the routing setting (p. 29) PadComp to Phones is "OFF," the pad compressor effect does not apply to the sound that is output from the PHONES jacks.

### Meters shown in the PAD COMP screen

In the PAD COMP screen, the "input meter," the "gain reduction meter," and the "output meter" are displayed.



Adjust the pad compressor's "Gain" so that the output meter does not exceed 0 dB (i.e., so that it does not clip).

### MULTI EFFECT (MFX) (page 4)

You can use three multi-effects simultaneously for each drum kit.

	ASSIGN	SEND	DRY+MFX
EDIT MFX1			
Type CDELA	Y	Level (dB)	اھى 🚬 🛛 0.0
	nc Left _eft Time	01 600[mse	FF
CHO BPM SY	nc Right		CJ STEREO FF DELAY
🗄 DIST Delay	Right Time	600[mse	c1 []
MFX SEL 4	TYPE @	LEVEL	MFX1 ON

Parameter	Value	Explanation		
MFX tab				
[F5] button	OFF, MFX1-3 ON Turns on/off the multi-effect 1–3 selected by the [R1] knob.			
MFX SEL ([R1] knob)	MFX1–3	You can use three multi-effects simultaneously for each drum kit.		
	Type of multi-effect			
Type ([R2] knob)	Reference			
	For more about multi-effects, refer	to "Multi-Effect Parameters" (p. 34).		
Level ([R3] knob)	-INF-+6.0 dB Volume of the effect sound for the selected multi-effect			
ASSIGN tab				
MFX Assign	MFX1–3 Select the multi-effect 1–3 that is applied to each pad.			
SEND tab	SEND tab			
MFX Send Volume	-INF-+6.0 dB Effect send level for each pad			
DRY+MFX tab				
MFX DRY+WET*1	DRY+MFX	The dry sound and effect sound will be output.		
MFX DRY+WEI*I	MFX ONLY	Only the effect sound will be output.		

*1 MFX DRY+WET is specified for each pad. It cannot be specified for individual strike locations (such as the head or rim). If MFX DRY+WET is set to "MFX ONLY," some multi-effect settings might cause no sound to be output.

### MASTER COMP (page 5)

This is a two-band equalizer that is provided for each drum kit.

The master compressor is output from the MASTER OUT jacks and the PHONES jacks.



This indicates whether the master comp effect is output ([M5T[PHD]) from each jack or is not output ([M5T]PHD]). MST: MASTER OUT jacks PHO: PHONES jacks (always output)

Parameter	Value	Explanation	
[F4] button	OFF, COMP ON	Turns master comp on/off.	
Туре	SINGLE SOFT COMP, SINGLE HARD COMP, SINGLE LIMITER, 2BAND SOFT COMP, 2BAND HARD COMP, 2BAND LIMITER	Character of the compressor * When you change this parameter, all parameters of the master compressor change to optimal settings for your selection. You can then make further adjustments to these parameters as necessary. Depending on the settings of these parameters, the resulting effect might not match the Type setting.	
Split Freq	SINGLE, 10–16000 Hz	Bandwidth of the compressor If this is "SINGLE," the master compressor operates as a single-band compressor that is used only on the high band.	
Threshold*1	-48–0 dB	Volume level at which compression begins	
Gain*1	-24-+24 dB	Output level of the compressor	
Attack*1	0–100 mSec	Time from when the volume goes up the threshold level until the compressor effect applies	
Release*1	10–1000 mSec Time from when the volume falls below the threshold level until the compressor applies		
Ratio*1	1:1–100:1	Compression ratio	
Knee*1	HARD, SOFT1-3	Attack of the sound at the moment compression is applied	
[F2] button*2	LO SOLO	When this is operating as a two-band compressor, you can individually audition the low-freque and high-frequency bands.	
[F3] button*2	HI SOLO	<ul> <li>* These settings are reset if you perform any of the following operations.</li> <li>Respecify the Type parameter as single band compressor</li> <li>Set the Split Freq parameter to "SINGLE"</li> <li>Exit the MASTER COMP screen</li> </ul>	

*1 If Split Freq is set to something other than "SINGLE," the low band and high band can be set independently.

*2 Only if Split Freq is set to something other than "SINGLE"

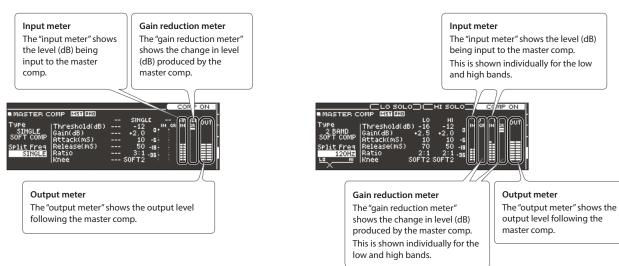
* If the routing setting (p. 29) Master Out is "DIRECT," the master compressor does not apply to the sound that is output from the MASTER OUT jacks.

### Meters shown in the MASTER COMP screen

In the MASTER COMP screen, the "input meter," the "gain reduction meter," and the "output meter" are displayed.

When Split Freq is "SINGLE" (single compressor)

#### When Split Freq is "10–16000 Hz" (2-band compressor)

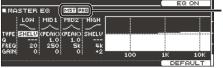


Adjust the master comp's "Gain" so that the output meter does not exceed 0 dB (i.e., so that it does not clip).

## MASTER EQ (page 6)

This is a four-band equalizer that is provided for each drum kit.

You can adjust the equalizer's effect (shelving and peaking) for the low frequency (LOW) and high frequency (HIGH). The master EQ is not output from the MASTER OUT jacks and PHONES jacks.



This indicates whether the master EQ effect is output ( MST PHD ) from each jack or is not output ( MST ). MST: MASTER OUT jacks PHO: PHONES jacks (always output)

Parameter	Value	Explanation
[F4] button	OFF, EQ ON	Turns master EQ on/off.
Туре	SHELV (Shelving), PEAK (MID1 and MID2: fixed to "PEAK")	Type of equalizer
Q	0.5–8.0 (only when Type is set to "PEAK")	Width of the frequency range A higher Q narrows the affected area.
Freq	20 Hz– 1 kHz (LOW) 20 Hz–16 kHz (MID1, 2) 1 kHz–16 kHz (HIGH)	Center frequency
Gain	-12-+12 dB	Amount of boost/cut

* If the routing setting (p. 29) Master Out is set to "DIRECT," the effect of the master EQ does not apply to the sound that is output from the MASTER OUT jacks.

#### MEMO

To return to the default values, press the [F5] (DEFAULT) button.

# USER SAMPLE

# SAMPLE LIST

/ LIST \ START/END   DELETE	
USER SAMPLE	REMAIN: 892
001 🕹 2Temp_Bass4	Р1ау Туре
OO2 ♪ 2Temp_Bazzz	LOOP ALT
[**़़∰Ų] 003 ✔ 2Temp_Fu118	
[ [∞] ````` <b>`</b> ] 004 ♪ P_Gons	~~~
005 🕹 SE_Explosion	CHANNEL: STEREO
006 🕹 MySampleO1 🛛 📋	SIZE: 1MB
SAMPLE	NAME )

Parameter	Value	Explanation	
	Renames the currently selected user sample.		
[F5] button	Reference		
	For details on how to assign a nam	e, refer to "Renaming a Drum Kit" in "Reference Manual" (PDF).	
LIST tab			
	Specifies how the user sample is soun	ded.	
	ONESHOT MONO	When you strike the pad, the currently-heard sound is silenced before the new sound is heard. Notes do not overlap.	
Play Type	ONESHOT POLY	When you strike the pad repeatedly, the sounds of the notes are heard overlapping.	
		The user sample plays repeatedly (loop).	
	LOOP ALT	Each time you strike the pad, the sound alternately plays or stops.	
START/END tab			
		Zooms the waveform display in or out.	
Zoom ([R1] knob)	_	You can zoom-in/out on the horizontal axis by turning the [R1] knob or by holding down the [SHIFT] button and pressing the cursor [◄] [▶] buttons.	
		If you hold down the [SHIFT] button and turn the [R1] knob or use the cursor [▲] [▼] buttons, you'll zoom-in/out on the vertical axis.	
Start ([R2] knob)*1	0-07937742	Adjusts the start point (the location at which the user sample starts playing).	
End ([R3] knob)*1	257–07937999 Adjusts the end point (the location at which the user sample stops playing).		

*1 You can't set the end point earlier than the start point.

You can't set the start point and end point to the same value.

For both the start point and end point, you can't specify a value that exceeds the length of the user sample.



# SONG (page 1)

/ INTERNA ■SONG	<u>⊐∟</u> `\	SD CARD	REC		<u> </u>
008 Rock	1	(AUDIO)		में जि	******* ******
@ SONG			SPEED		

Parameter	Value	Explanation
Speed ([R3] knob)	50–150 %	Changes the song's (audio file) playback speed. * When you switch songs, this returns to 100%. Depending on the type of song, this might not be available.

# SONG INFO (page 2)

SONG INFO/FUNC
INFORMATION Type: Internal Name: Rock 1 (AUDIO)
Total Time: 01:22
FUNCTION LOOP Type LOOP Song Level -1.0(dB)

Parameter	Value	Explanation	
	Change the name of recorded data. Reference		
[F4] button*1			
For details on how to assign a name, refer to "Renaming a Drum Kit" in		e, refer to "Renaming a Drum Kit" in "Reference Manual" (PDF).	
	Specifies how the song is played back.		
Loop Type	ONE SHOT	Play back only once and then stop.	
	LOOP	Play repeatedly.	
Song Level	-INF-+6.0 [dB]	Song volume	
Click Track Level*2	-INF-+6.0 [dB]	Click track volume	

*1 Only recorded data

*2 Only if there is a click track corresponding to the song

# SET LIST

# SETUP

(MOVE LISTA) MOVE LISTA	IST			
Il Recording E       2     Subdinstion       3     Set List 3       4     Set List 4       4     Set List 5       5     Set List 6				
	STEP EDIT			
Parameter	Value	Explanation		
Parameter		Explanation		
Parameter [F4] button	Value	Explanation		

#### 1. Press the [CLICK] button.

The CLICK screen appears.

/ TEMPO		OTHER	QUIET CNT
	Beat	Dhuthm	æ
Tempo	Deal	Rhythm	<b>8</b>
120	4	J	OFE

Parameter	Value	Explanation	
[F5] button	OFF, ON	Turns click on/off.	
TEMPO tab			
Tempo*1	20–260	Tempo	
Beat*1	1–9	Number of beats per measure	
Rhythm	٩-٦	Interval of the click	
SOUND tab			
Sound	METRONOME, CLICK, VOICE, BEEP 1, BEEP 2, TEK CLICK, STICKS, CLAVES, WOOD BLOCK, COWBELL, TRIANGLE, TAMBOURINE, MARACAS, CABASA	Sound for the click	
Level	-INF-+6.0 dB	Volume of click	
LED Ref	OFF, ON	Specifies whether the [CLICK] button blinks in time with the click (ON) or does not blink (OFF).	
OTHER tab			
Click Pan	L30–CTR (CENTER)–R30	Stereo position of the click	
Amb(Reverb)Send	-INF-+6.0 dB	Depth of ambience reverb Applying ambience reverb makes the click easier to hear. MEMO The effect specified by the ambience reverb setting is applied. This means that reverb must b turned on (p. 12).	
Tap Sw	OFF, ON	You can specify the tempo by striking the pad specified by Tap Pad or by pressing a button (Tap Tempo).	
Tap Pad	KICK–PREVIEW	Select the pad or button that can be struck or pressed to set the tap tempo.	

*1 This cannot be changed while playing back a drum performance data song (p. 46) or recorded data.

### **Quiet Count settings**

#### 1. In the CLICK screen, press the [F4] (QUIET CNT) button.

#### 2. Press the [F2] (SETUP) button.

The setting screen appears.



#### 3. Use cursor buttons to select a parameter, and use the [-] [+] buttons or the dial to edit the value.

Parameter	Value	Explanation	
Measures	2, 4, 8, 16 (Measures) Specify the length (measures) of the interval for which the click will alternate betwee and "Quiet."		
	Of the measures specified by "N	Of the measures specified by "Measures," this setting specifies the length of the measures that will be "Quiet."	
0.14	RANDOM	The length of the Quiet interval will randomly change each time.	
Quiet	1.2.4	Specifies the length (number of measures) of the Quiet interval.	
	1, 2, 4	* This setting cannot be longer than half of the Measures value.	

. . ..

#### 1. Press the [TRIGGER] button.

The TRIGGER screen appears.

	GITAL	SENS	HI-HAT
TRIGGER BANK		HEAD	<b>ESNARE 1</b>
Bank No. 1 TD- K KD120 S EPD140DS3 T1 PDX100 T2 PDX100	50K PDX100 VH11 CY12C CY12R	A2 CY	12C 12C ×100 - ×100
T3 PDX100	R CCV18DF	23	NAME

- 2. Use the PAGE [UP] [DOWN] buttons to access the editing screen.
- **3.** Use cursor buttons to select a parameter, and use the [-] [+] buttons or the dial to edit the value.
- 4. Press the [KIT] button to return to the DRUM KIT screen.

### TRIG BASIC (page 1)



Parameter	Value	Explanation
	Renames the trigger bank.	
[F5] button	Reference	
		me, refer to "Renaming a Drum Kit" in "Reference Manual" (PDF).
BANK tab		······································
Bank No.	1-8	Trigger bank number
		Specifies the model of pad (trigger type) that is connected to each trigger input.
		* You can't change the trigger type of a trigger input that's assigned to a pad that supports a digital connection.
TrigType	For details, refer to "Trig Type list"	МЕМО
2.1	(p. 23).	When you specify the trigger type, the trigger parameters (with the exception of certain parameters such as cross-stick cancel) are set to optimal values. These values are only general guidelines; you can make fine adjustments as appropriate according to how you attach the pad and how you use it.
DIGITAL tab		
Assign	N/A, KICK–AUX4	Specifies the trigger input to which a digitally-connected pad is assigned. A digitally connected pad for which you select "N/A" is not used; the settings of the pad connected to the TRIGGER IN jack are applied.
		* Even if this is assigned to "HI-HAT," hi-hat open/close techniques cannot be performed.
SENS tab		
Trig Type	This parameter is the same as the Tr	rig Type parameter of the BANK tab.
Sensitivity	1.0-32.0	You can adjust the sensitivity of the pads to accommodate your personal playing style. Increasing this value increases the sensitivity, so that even soft strikes on the pad are sounded at high volume. Decreasing this value decreases the sensitivity, so that even strong strikes on the pad are sounded at low volume.
Rim Gain	0-3.2	Adjusts the balance between the force of striking the rim or edge and the loudness of the sound. If you increase this value, even soft strikes on the rim are sounded at high volume. If you decrease this value, even strong strikes on the rim are sounded at low volume. This is available for pads that support rim shots.
HI-HAT tab		
Trig Type	This parameter is the same as the Tr	ig Type parameter of the BANK tab.
Hi-Hat Type	Type of hi-hat This is set automatically according t	to the parameter selected in Trig Type.
Offset*1, *2	-100-+100 (automatically)	Extent of opening Hi-Hat The bigger the value is, the wider the opening extent is. Reference
		For details on how to adjust the offset, refer to "Reference Manual." You can make fine adjustments to the hi-hat parameters as necessary.
Foot Splash Sens*2	-10-+10	Amount of how easy to make the foot splash
Noise Cancel*1, *2	1–3	Amount of strength to cancel the bow and edge noise when you play foot close.
Noise Caller 1, 2		The bigger the value is, the more difficult to have a noise excluding the foot close.
		Amount of control change that is transmitted in stepping the hi-hat pedal down completely.

*1 Only if Trig Type is set to "VH13" or "VH12."

*2 Digitally-connected pads do not support hi-hat pedal performance.

*3 Only if Trig Type is set to something other than "VH13" or "VH12"

# Making detailed settings for digitally-connected pads

- 1. Press the [TRIGGER] button.
- 2. Press the PAGE [UP] button to access page 1 (TRIG BASIC).
- 3. Press the [F2] (DIGITAL) button.
- 4. Press the [F5] (ADVANCED) button.

The DIGITAL TRIGGER ADVANCED screen appears.

DIGITAL TRIGGER A	DIGITAL TRIGGER ADVANCED EXIT				
Pad	Advanced Sett	ing			
CY18DR > PD140DS	[Pad Assign Position Adjust XStick Detect Sens	SNARE] 4 3			
Marine Market States		DEFAULT			

5. Use cursor buttons to select a parameter, and use the [-] [+] buttons or the dial to edit the value.

#### 6. Press the [F4] (EXIT) button to return to the DIGITAL TRIGGER IN screen.

* The parameters that can be set differ depending on the type of pad.

Parameter	Value	Explanation
Position Adjust	1_1_10	Adjusts how the tonal character is affected by strike position. Lower values adjust toward the center, and higher values adjust toward the circumference.
XStick Detect Sens	OFF, 1–5	Adjusts how easy it is to use cross-stick playing technique. If this is "OFF," cross-stick technique is unavailable.
Choke Sens	OFF, 1–5	Adjusts the sensitivity of choking technique. If this is "OFF," choking technique is unavailable.
Bell Gain	0–3.2	Adjusts the balance between the force of a strike on the bell (bell shot technique) and the loudness of the sound. With higher values of this setting, a high volume can be produced even by a soft strike on the bell.

### Trig Type list

		Rim	Bell	Position	Positional sensing	
Used modes	Trig Type	shot	shot	Head	Rim	play
KD-A22	KDA22	-	-	-	-	-
KD-140	KD140	-	-	-	-	-
KD-120	KD120	-	-	-	-	-
KD-85	KD85	-	-	-	-	-
KD-9	KD9	-	-	-	-	-
KD-8	KD8	-	-	-	-	-
KD-7	KD7	-	-	-	-	-
KT-10	KT10	-	-	-	-	-
PD-128S, PD-128	PD128	~	-	~	~	-
PD-125XS, PD-125X	PD125X	~	-	~	~	-
PD-125	PD125	~	-	$\checkmark$	~	-
PD-108	PD108	~	-	~	~	-
PD-105X	PD105X	~	-	~	~	-
PD-105	PD105	$\checkmark$	-	$\checkmark$	$\checkmark$	-
PD-85	PD85	~	-	~	~	-
PDX-100	PDX100	~	-	~	~	-
PDX-8	PDX8	~	-	-	-	-
PDX-6	PDX6	~	-	-	-	-
PD-8	PD8	~	-	-	-	~
VH-13	VH13	~	-	-	-	~
VH-12	VH12	~	-	-	-	~
VH-11	VH11	~	-	-	-	~
CY-15R	CY15R	~	~	~	-	~
CY-14C	CY14C	~	-	~	-	~
CY-13R	CY13R	~	~	~	-	~
CY-12C	CY12C	~	_	~	-	~
CY-12R/C	CY12R/C	~	~	~	-	~

Hered and she	<b>T T</b>	Rim	Bell	Position	Positional sensing	
Used modes	Trig Type	shot	shot	Head	Rim	play
CY-8	CY8	~	-	-	-	$\checkmark$
CY-5	CY5	~	-	-	-	$\checkmark$
DT 1	BT1	-	-	-	-	-
BT-1	BT1 SENS*1	-	-	-	-	-
	PAD1	~	-	-	-	~
Generic pads	PAD2	~	-	-	-	-
	PAD3	1	-	-	-	~
RT-30K	RT30K	-	-	-	-	-
RT-30HR	RT30HR	~	-	-	-	-
DT 2011	RT30H SN*2	-	-	-	-	-
RT-30H	RT30H TM*3	-	-	-	-	-
RT-10K	RT10K	-	-	-	-	-
RT-10S	RT10S	~	-	-	-	-
RT-10T	RT10T	-	-	-	-	-

*1 When using the BT-1, it is possible to further increase the sensitivity for soft strikes, but this increases the possibility of unwanted triggering by vibration from the surroundings.

*2 Select this if you attach an RT-30H to the snare.

*3 Select this if you attach an RT-30H to a tom.

# Trigger inputs and playing methods corresponding chart

#### Rim shot/cross stick

* Use a dual-trigger type pad.

Triana la sut	Rim	Cross Stick	
Trigger Input	Rubber Pad Mesh Pad		
KICK	-	-	-
SNARE	$\checkmark$	✓	$\checkmark$
TOM 1-4	$\checkmark$	✓	-
HI-HAT	✓	-	-
CRASH 1, 2	✓	-	-
RIDE	✓	_	_
AUX 1-4	✓	✓	-

#### Positional sensing/rim shot nuance

Trigger Input	Positional Sensing (Head)	<b>Rim Shot Nuance</b>
KICK	-	-
SNARE	$\checkmark$	$\checkmark$
TOM 1-4	$\checkmark$	$\checkmark$
HI-HAT	-	-
CRASH 1, 2	-	-
RIDE	$\checkmark$	-
AUX 1–4	$\checkmark$	$\checkmark$

#### MEMO

- Brush sweep can be used only SNARE.
- Each playing method can be used with the instruments corresponding to it.
- Bell shots are possible only for "RIDE."
- Cross-stick is possible only for "SNARE."

# TRIG ADVANCED (page 2)



Parameter	Value	Explanation		
THRESHOLD tab				
Trig Type	This is the same parameter a	er as Trig Type (p. 22) in the BANK tab.		
Threshold	0–31	Minimum sensitivity of the pad This setting allows a trigger signal to be received only when the pad is above a determined force level (velocity). This can be used to prevent a pad from sounding because of vibrations from other pads. In the following example, B will sound but A and C will not sound. Check this and adjust accordingly. Repeat this process until you get the perfect setting for your playing style.		
	Volume change in response	to pad strike strength		
	LINEAR	Volume Playing LINEAR dynamics	The standard setting. This produces the most natural correspondence between playing dynamics and volume change.	
	EXP1, EXP2	Volume Volume Playing EXP1 dynamics EXP2 dynamics	Compared to "LINEAR," strong dynamics produce a greater change.	
Curve	LOG1, LOG2	Volume Volume Volume Volume Playing LOG1 dynamics LOG2 dynamics	Compared to "LINEAR," a soft playing produces a greater change.	
	SPLINE	Volume Playing SPLINE dynamics	Extreme changes are made in response to playing dynamics.	
	LOUD1, LOUD2	Volume Volume Volume Playing LOUD1 dynamics LOUD2 dynamics	Very little dynamic response, making it easy to maintain strong volume levels. If you're using a drum trigger as an external pad, these settings will produce reliable triggering.	

Parameter	Value	Explanation
THRESHOLD tab		
ExtNoiseCancel*1	OFF, 1–5	This setting lets you prevent a drum from being triggered unwantedly by a strike on a drum to which no drum trigger is attached, or by sound or vibration from the surroundings (noise cancellation). This noise cancel function can be used if you use a stereo cable to connect an "RT-30K" or "RT-30HR" drum trigger to the following TRIGGER IN jacks and specify the Trig Type. Supported TRIGGER IN jacks • KICK • SNARE • TOM1-4 • AUX1-4 * The "RT-30H" does not support the noise cancel function.
RIM tab		
	This is the same parameter	ps Trig Type (n. 22) in the RANK tob
Trig Type Head/Rim Adjust*2	0-80	as Trig Type (p. 22) in the BANK tab. If the rim sound is heard when you strike the head strongly, increase this value. If the head sound is heard when you play an open rim shot, decrease this value. If the head sound is heard when you softly play a rim shot, decrease this value. MEMO If the rim shot sound is heard when you play a head shot, or if a head shot sound is heard when you play a rim shot, make small changes to the Head/Rim Adjust values while you continue trying out the results. Extreme changes to the values will cause the wrong sound to be heard when you strike the pad, for example producing the rim shot sound when you play a head shot.
XStick Threshold*2	0–127	For a pad that is connected to a TRIGGER IN jack, this specifies the force at which to switch between the cross stick sound and open rim shot sound. Setting this to a higher value makes it easier to get cross stick sounds. When set to "0," playing a cross stick produces the open rim shot sound. For a digitally connected pad that allows cross stick technique, playing a cross stick that is stronger than the value of this setting produces the open rim shot sound. * For a pad that is connected to a TRIGGER IN jack, be aware that if this value is raised excessively, the cross stick sound will also be heard when you play an open rim shot. * Strong a cross stick sound will also be heard when you play an open rim shot.
SCAN tab		as Trig Type (p. 22) in the BANK tab.
Scan Time	0–4.0 ms	Trigger signal detection time Since the rise time of the trigger signal waveform may differ slightly depending on the characteristics of each pad or acoustic drum trigger (drum pickup), you may notice that identical hits (velocity) may produce sound at different volumes. If this occurs, you can adjust the "Scan Time" so that your way of playing can be detected more precisely. While repeatedly hitting the pad at a constant force, gradually raise the Scan Time value from 0 msec, until the resulting volume stabilizes at the loudest level. At this setting, try both soft and loud strikes, and make sure that the volume changes appropriately. * As the value is set higher, the time it takes for the sound to be played increases. Set this to the lowest value possible.
Mask Time	0–64 ms	Double triggering prevention When playing a kick trigger the beater can bounce back and hit the head a second time immediately after the intended note—with acoustic drums sometimes the beater stays against the head—this causes a single hit to "double trigger" (two sounds instead of one). The Mask Time ghelps to prevent this. Once a pad has been hit, any additional trigger signals occurring within the specified "Mask Time" will be ignored. Adjust the "Mask Time" value while playing the pad. When using a kick trigger, try to let the beater bounce back and hit the head very quickly, then raise the "Mask Time" value until there are no more sounds made by the beater rebound. <b>MEMO</b> If two or more sounds are being produced when you strike the head just once, then adjust Retrigger Cancel.
Retrigger Cancel	1–16	Detecting trigger signal attenuation Important if you are using acoustic drum triggers. Such triggers can produce altered waveforms, which may also cause inadvertent sounding at Point A in the following figure (Retrigger). This occurs in particular at the decaying edge of the waveform. Retrigger Cancel detects such distortion in and prevents retriggering from occurring. While repeatedly striking the pad, raise the "Retrigger Cancel" value until retriggering no longer occurs. Although setting this to a high value prevents retriggering, it then becomes easy for sounds to be omitted when the drums played fast (roll etc.). Set this to the lowest value possible while still ensuring that there is no retriggering. MEMO You can also eliminate this problem of retriggering with the Mask Time setting. Mask Time does not detect trigger signals if they occur within the specified amount of time after the previous trigger signal was received. Retrigger Cancel detects the attenuation of the trigger signal level, and triggers the sound after internally determining which trigger signals was eactually generated when the head was struck, while weeding out the other false trigger signals that need not trigger a sound.

#### TRIGGER

Parameter		Value Explanation			
POSITION tab					
Trig Type		This is the same parameter as	This is the same parameter as Trig Type (p. 22) in the BANK tab.		
Positional sensing on/off If you turn strike position detection on, you'll be able to produce tonal change by varying the strike position on the head or by the nuance of your rim shots.					
	Head	OFF, ON	Turns head strike position detection on/off		
	Rim	OFF, ON	Turns rim strike position detection on/off		

*1 Only when Trig Type is set to "RT30K" or "RT30HR"

*2 For some Trig Type settings, this cannot be specified.

#### MEMO

To return to the default values, press the [F5] (DEFAULT) button.

The following parameters do not return to their default values when you change the Trig Type or press the [F5] (DEFAULT) button.

- Hi-hat parameters
  - Offset
  - Foot Splash Sens
  - Noise Cancel
  - CC MAX
- XStick Threshold
- XTalk Cancel Rate

# TRIG MONITOR (page 3)

/ TRIG \ XTALK ■TRIGGER MONITOR		HEAD [SNARE ]
121	OPEN - HALF CLOSE PRESS -	(POSTATION) CENTER OUTER \$ (INTERUAL)  \$

Parameter	Value	Explanation
XTALK tab		
		Strength of crosstalk cancellation
XTalk Cancel Rate	0-80	Reference
		For details on how to make these settings, refer to "Reference Manual."

#### 1. Press the [SETUP] button.

The SETUP MENU screen appears.



#### 2. Use the PAGE [UP] [DOWN] buttons and the function buttons to select the setup menu that you want to edit.

Setup menu	Explanation	Page
OUTPUT	Specifies the output destination of the sounds.	p. 27
USB AUDIO	Makes USB audio settings.	p. 30
OPTION	Makes settings for the [PREVIEW] button, the MIX IN jacks, and the display.	p. 30
CONTROL	Assigns functions to the footswitch and pads.	p. 31
MIDI	Makes MIDI settings.	p. 32
AUTO OFF	Makes AUTO OFF settings.	p. 33
INFO	Displays information about the TD-50 itself, such as the program version.	p. 33
FACTORY RESET	Returns the TD-50 to its factory settings. <b>Reference</b> For details on the factory reset operation, refer to "Reference Manual" (PDF).	-

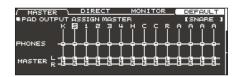
#### 3. Edit the settings of the menu that you selected.

#### Reference

For details on operations in the setup menu, refer to "Reference Manual" (PDF).

# OUTPUT

## PAD OUTPUT (page 1)



Parameter	Value	Explanation
MASTER tab		
PAD OUTPUT ASSIGN MASTER	PHONES (MASTER OFF), PHONES+MASTER LR	Specifies each pad's output from the PHONES jacks and the MASTER OUT jacks (when Master Out (p. 29) is "NORMAL").
DIRECT tab		
PAD OUTPUT ASSIGN DIRECT	OFF, 1, 2, 1+2, 3, 4, 3+4, 5, 6, 5+6, 7, 8, 7+8, MASTER DIRECT L, MASTER DIRECT R, MASTER DIRECT L+R	Specifies each pad's output from the DIRECT OUT 1–8 jacks and the MASTER OUT jacks (when Master Out (p. 29) is "DIRECT").
MONITOR tab		
Monitor tab Monitor the output volume of each jack. MASTER DIRECT MONITOR OUTPUT MONITOR MASTER FHONES 1 2 3 4 5 5 7 8		

#### MEMO

To return to the default values, press the [F4] (DEFAULT) button.

# OTHER OUTPUT (page 2)



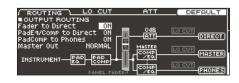
Parameter	Value	Explanation
MASTER tab		
OTHER OUTPUT ASSIGN MASTER	PHONES (MASTER OFF), PHONES+MASTER LR	Specifies how ambience and MFX are output from the PHONES jacks and the MASTER OUT jacks (when Master Out (p. 29) is "NORMAL").
DIRECT tab		
OTHER OUTPUT ASSIGN DIRECT	OFF, 1, 2, 1+2, 3, 4, 3+4, 5, 6, 5+6, 7, 8, 7+8, MASTER DIRECT L, MASTER DIRECT R, MASTER DIRECT L+R	Specifies how ambience and MFX are output from the DIRECT OUT1–8 jacks and the MASTER OUT jacks (when Master Out (p. 29) is "DIRECT").
MONITOR tab		

#### MEMO

To return to the default values, press the [F4] (DEFAULT) button.

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# OUTPUT ROUTING (page 3)



Parameter	Value	Explanation
ROUTING tab		
		Specifies whether the fader values are applied to the output from the DIRECT OUT jacks (ON) or are not applied (OFF).
		If this is "OFF," the output from the DIRECT OUT jacks is not affected by the panel faders.
Fader to Direct*1	OFF, ON	If the OUTPUT ROUTING Master Out is "DIRECT," and Fader to Direct is "OFF," the output from the MASTER OUT jacks is also unaffected by the panel faders.
		Regardless of the Fader to Direct setting, the output from the PHONES jacks is always affected by the panel faders.
		This means that the faders at hand can be used to adjust the balance of the sound monitored by the performer, independently of the balance adjusted by the PA.
		Specifies whether the pad equalizer (p. 14) and pad compressor (p. 14) effects are applied (ON) or are not applied (OFF) to the sound that is output from the DIRECT OUT jacks.
PadEq/Comp to Direct*1	OFF, ON	If this is "OFF," the pad equalizer and pad compressor are bypassed for the output of the DIRECT OUT jacks.
		If the OUTPUT ROUTING Master Out is "DIRECT," and PadEq/Comp to Direct is "OFF," the output from the MASTER OUT jacks also bypasses the pad equalizer and pad compressor.
		Specifies whether the pad compressor (p. 14) is applied (ON) or is not applied (OFF) to the sound that is output from the PHONES jacks.
PadComp to Phones	OFF, ON	If this is "OFF," the pad compressor does not affect the output from the PHONES jacks.
		For example, this lets you use the pad compressor to reduce the dynamic range for the drum monitor or PA, but hear the full dynamics in the monitor headphones while you perform.
		Selects whether the output of the MASTER OUT jacks is the same signal as the DIRECT OUT jacks (DIRECT) or not (NORMAL).
Master Out*1	NORMAL, DIRECT	If this is "DIRECT," the output of the MASTER OUT jacks is not affected by the master compressor and master EQ, allowing you to use the MASTER OUT jacks as DIRECT OUT jacks (the setting of the [MASTER] knob does apply).
		This setting also applies to the USB audio output to your computer.
LO CUT tab		
LoCut Frequency	20–200 Hz	Cuts the frequency region below the specified frequency (low cut). This setting is common to all output jacks.
DirectOut*2	OFF, ON	Specifies whether low cut is applied (ON) or is not applied (OFF) to the sound that is output from the DIRECT OUT jacks.
MasterOut*2	OFF, ON	Specifies whether low cut is applied (ON) or is not applied (OFF) to the sound that is output from the MASTER OUT jacks.
PhonesOut	OFF, ON	Specifies whether low cut is applied (ON) or is not applied (OFF) to the sound that is output from the PHONES jacks.
ATT tab		
Direct Out Att*2	-12, -6, 0db	Lowers the volume of the DIRECT OUT jacks (attenuator). This lets you decrease the volume if the output of the TD-50 is too high, causing distortion on the device that receives these signals. This applies to all DIRECT OUT jacks.
		If Master Out is set to "DIRECT," this also applies to the output from the MASTER OUT jacks.

*1 This also applies to the TD-50's sound that is output via USB audio.

*2 Low cut and attenuator do not apply to the TD-50's sound that is output via USB audio.

MEMO

To return to the default values, press the [F4] (DEFAULT) button.

# **USB AUDIO**



Parameter	Value	Explanation
Innut Cain	-36-+12 dB	Adjusts the input level
Input Gain	-50-+12 UB	This setting is common to Input MAIN and SUB.
	Specifies the knob that adjusts the inp	out volume of USB audio (Input MAIN, SUB).
Volume Select	OFF	The volume is not adjusted by a knob.
Input MAIN, SUB	SONG	The [SONG] knob adjusts the volume.
	CLICK	The [CLICK] knob adjusts the volume.
Output Cain	-24-+24 dB	Adjusts the output level
Output Gain	-24-+24 dB	This setting is common to all outputs.
	Switches between the TD-50's dedicated USB driver and the driver provided by your operating system.  MEMO The setting takes effect when the TD-50 is powered off and on again.	
Driver Mode		
	CENEDIC	Use the driver provided by the operating system.
	GENERIC	Operation is limited to USB MIDI.
	VENDOR	Use the TD-50's dedicated driver provided by Roland. USB MIDI and USB audio can be used.

# OPTION



Parameter	Value	Explanation
PREVIEW tab		
	Specifies how the sound	is played when the [PREVIEW] button is pressed.
	FIXED	The sound is heard at a fixed volume regardless of how strongly the button is pressed.
Preview Mode		The velocity changes depending on how strongly the button is pressed.
	DRUM KIT	The velocity changes in the range of 1–127 according to the pad that is connected. For a digitally connected pad, the velocity changes in the range of 1–127+32.
Velocity	1–127+32	Velocity when Preview Mode is set to "FIXED"
MIX IN tab		

#### MIXI

The MIX IN jack can be used not only as a stereo input but also as mono input x2.

For example, if the click sound is being played through the L-channel of the MIX IN jack and the backing through the R-channel, set Mode to "MONO" so that the click and backing are both heard from the center.

This setting is common to the front panel and rear panel MIX IN jacks.

	Selects the jack(s) to use as an input.	
Input	L + R	Use both channels
	L ONLY	Use only the left channel
	RONLY	Use only the right channel
Mada	STEREO	Use as stereo input
Mode	MONO	Use as monaural x 2
Gain	0, +6, +12 dB	Adjusts the input level
LCD tab		
Contrast	1–16	Display contrast
Brightness	1–16	Display brightness
GUIDE tab		
		Specifies whether the guide is shown (ON) or not shown (OFF) on the screen when switching pages.
Guide Display Sw	OFF, ON	PREVIEW     MIX     IN     LCD     GUIDE       GUIDE SETUP     Image: setup for the se

# CONTROL

#### FOOT SW <u>PAD CTRL</u> ■FOOT SWITCH CONTROL ®©⊂ Foot Switch 1 Func 077 Foot Switch 2 Func 077

Parameter	Value	Explanation
FOOT SW tab		
Foot Switch 1 Func(SW1)	See below	Assigns a function to a footswitch (separately sold: BOSS FS-5U, FS-6) connected to the TD-50. Connecting an FS-5U Stereo 1/4" phone type 1/4" phone type x 2 POLARITY switch SW 1 * If you use a mono cable to connect a single FS-5U, it will operate as SW 2. * The FS-5L cannot be used. Connecting an FS-6 Stereo 1/4" phone type Stereo 1/4" phone type Stere
PAD CTRL tab		
Aux3 Head Func, Aux3 Rim Func Aux4 Head Func, Aux4 Rim Func	See below	Assigns functions to a pad connected to TRIGGER IN jack 13/AUX3. You can assign separate functions to the head and to the rim. Assigns functions to a pad connected to TRIGGER IN jack 14/AUX4. You can assign separate functions to the head and to the rim.

### Functions that you can assign to a footswitch or pad

Value	Explanation
OFF	No function is assigned.
KIT# INC	Calls up the previous kit.
KIT# DEC	Calls up the next kit.
SETLIST# INC	Calls up the previous set list.
SETLIST# DEC	Calls up the next set list.
SONG# INC	Calls up the previous song.
SONG# DEC	Calls up the next song.
SONG PLAY	Play the song.
SONG STOP	Stop the song.
SONG TOP	Return to the beginning of the song.
SONG PLAY/STOP	Play/stop the song.

Value	Explanation
SONG AB REPEAT	Specifies A-B repeat.
MFX 1 ON/OFF	Turns on/off the multi-effect 1.
MFX 2 ON/OFF	Turns on/off the multi-effect 2.
MFX 3 ON/OFF	Turns on/off the multi-effect 3.
XSTICK ON/OFF*1	Switches between sounding or not sounding the cross-stick sound.
FIXED HH ON/OFF	Switches between setting the hi-hat Fixed (p. 8) to "CLOSE" or not.
ALL SOUND OFF	Stops the currently-sounding drum performance sound or user sample playback.

*1 If the trigger input (p. 22) of a digitally-connected pad (such as the PD-140DS) is assigned to snare, "XSTICK ON/OFF" has no effect.

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# MIDI

( BASIC CONTROL SYNC PROG CHG ■ SETUP MIDI BASIC MIDI TX/RK SW ION MIDI Channel 10Ch Program Chanse TX 0H Program Chanse RX 0H Soft Thru MIDI In 0FF Soft Thru USB MIDI In 0FF

Parameter	Value	Explanation		
BASIC tab				
MIDI Tx/Rx Sw	OFF, ON	Turns the transmitting and receiving MIDI messages on/off.		
MIDI Channel	1–16Ch	Transmit and receive channel.		
Program Change Tx	OFF, ON	Turns program change transmission on/off		
Program Change Rx	OFF, ON	Turns program change reception on/off		
·····	This allows performance data from	a MIDI device connected to the TD-50's MIDI IN connector to be transmitted to another MIDI device ector or to a computer connected to the USB COMPUTER port.		
	OFF	Performance data received from the TD-50's MIDI IN connector will not be sent to the MIDI OUT connector or the USB COMPUTER port.		
Soft Thru MIDI In	ON (MIDI OUT)	Performance data received from the TD-50's MIDI IN connector will be sent to the MIDI OUT connector.		
	ON (USB MIDI)	Performance data received from the device connected to the TD-50's MIDI IN connector will be sent to the USB COMPUTER port.		
	ON (MIDI+USB)	Performance data received from the device connected to the TD-50's MIDI IN connector will be sent to the MIDI OUT connector and the USB COMPUTER port.		
	Performance data from a comput MIDI OUT connector.	ter connected to the TD-50's USB COMPUTER port can be transmitted to a MIDI device connected to the		
Soft Thru USB MIDI In	OFF	Performance data received via the TD-50's USB COMPUTER port is not transmitted to the MIDI OUT connector.		
	ON (MIDI OUT)	Performance data received via the TD-50's USB COMPUTER port is transmitted to the MIDI OUT connector.		
Local Control	OFF, ON	Turns on/off the connection between the performance data from the pads and the TD-50's sound generator section Normally you'll leave this "ON." If this is "OFF," the performance data from the pads is not connected to the TD-50's sound generator section.		
Device ID	17-32	Device ID setting The setting described here is necessary only when you wish to transmit separate data to two or more TD-50 units at the same time. Do not change this setting in any other case.		
Transmit Edit Data	OFF, ON	Specifies whether changes in the TD-50's settings are transmitted as system exclusive messages (ON) or not transmitted (OFF).		
Receive Exclusive	OFF, ON	Specifies whether system exclusive messages are received (ON) or not received (OFF).		
CONTROL tab				
HH Pedal CC		Control change used for transmitting/receiving the depth to which the hi-hat pedal pressed		
Snare CC	OFF, 1, 2, 4, 11, 16, 17, 18, 19	Control change used for transmitting/receiving the strike position of the snare		
Ride CC	OFF, 1, 2, 4, 11, 10, 17, 18, 19	Control change used for transmitting/receiving the strike position of the ride		
TOMs/AUXs CC		Control change used for transmitting/receiving the strike position of the tom 1–4 and AUX 1–4		
HH Note# Border	0-127	This number specifies the pedal position at which to switch from open hi-hat to closed hi-hat. * There's no need to change this setting if you're performed and recording only with the TD-50 and the pads.		
Hi-Reso Velocity	OFF, ON	Disables CC#88 (high resolution velocity prefix). If this is disabled, the maximum velocity handled by the TD-50 is limited to 127. Velocity is also limited to 127 for strikes on digitally-connected pads and for input via the MIDI IN connector.		
Cymbal Choke Shot	OFF, ON	Switches support for the performance technique of striking a pad while choking it. If this is "ON," striking a pad while choking it immediately mutes the sound after it begins. If this is "OFF," the sound is not muted immediately even if you strike a pad while choking it.		
SYNC tab				
	Specifies the synchronization sign	nal according to which the TD-50 operates.		
Sync Mode	INTERNAL	Choose this setting if you're using the TD-50 by itself without synchronizing it to another device, or if you want another device to operate in synchronization with the TD-50.		
	EXTERNAL	The TD-50 operates as a slave device. Choose this setting if you want the TD-50 to operate according to synchronization messages that it receives from another device.		
Clock Source	MIDI, USB MIDI	When Sync Mode is "EXTERNAL," this specifies whether the TD-50 synchronizes to synchronization messages from the MIDI IN connector (MIDI) or to synchronization messages from the USB COMPUTER port (USB MIDI).		
Sync Out	OFF, ON	Specifies whether MIDI synchronization messages are transmitted to another device (ON) or not transmitted (OFF).		
PROG CHG tab				
MIDI Program Change	1–127	You can freely specify the correspondence between drum kits and the program change numbers that are transmitted and received.		

### Using the Local Control setting

If you're using a DAW with the performance data from the pads and TD-50's sound generator section, you should turn the Local Control "OFF." Here's why.

We need to connect these sections in the following order: the performance data from the pads  $\rightarrow$  a DAW  $\rightarrow$  the TD-50's sound generator section.

Since the performance data from the pads and TD-50's sound generator section are connected internally, such a connection order would normally be impossible. However, if the Local Control is "OFF," the performance data from the pads and TD-50's sound generator section will be independent, allowing you to use a DAW as shown here in the illustration.

# Pad TD-50 Sound generator section

### Specifying the HH Note# Border

The note number transmitted when you strike the hi-hat will change depending on the amount of pressure on the hi-hat pedal. At the factory default value (127), the closed hi-hat note number will be transmitted only if the hi-hat pad is played with the pedal completely depressed. If you want this note number to be transmitted when the pedal is slightly raised, set this to a value such as "90."

* In some cases, changing the hi-hat note number border setting might cause a song to play back differently than when it was recorded.

# AUTO OFF



4 HOURS

Parameter	Value Explanation		
	Specifies whether the unit will turn off automatically after a certain time has elapsed. If you don't want the unit to turn off automatically, choose "OFF" setting		
Auto Off	OFF	The power does not turn off automatically.	
	4 HOURS	When four hours have elapsed without any pad being struck or any operation being performed, the unit will turn off automatically.	

# INFO



Parameter	Value	Explanation	
PROGRAM tab			
Program Version	Program version		
SAMPLE tab			
Imported Sample	Number of imported user samples		
Memory Remain	Remaining amount for user samples in user memory		
SD CARD tab			
Backup All	Backup data saved on the SD card (all settings)		
1 Kit	Kit backup data saved on the SD card		
Rec Data	Number of recorded data saved on the SD card		
DIGITAL tab			
Pad	Indicates a pad that is digitally connected to the TD-50.		
Program Version	Indicates the program version of a pad that is digitally connected to the TD-50.		

The multi-effects feature 30 different kinds of effects. Some of the effects consist of two or more different effects connected in series.

Effect type	Page
DELAY	p. 35
TAPE ECHO	p. 35
REVERSE DELAY	p. 35
3TAP PAN DELAY	p. 35
$OD \rightarrow DELAY$	p. 36
DS → DELAY	p. 36
CHORUS	p. 36
SPACE-D	p. 36
OD → CHORUS	p. 36
$DS \rightarrow CHORUS$	p. 36
PHASER A	p. 37
PHASER B	p. 37
STEP PHASER	p. 37
FLANGER	p. 37
REVERB	p. 38
LONG REVERB	p. 38
SUPER FILTER	p. 38
FILTER+DRIVE	p. 38
AUTO WAH	p. 39
OD/DS → TWAH	p. 39
LOFI COMPRESS	p. 39
DISTORTION	p. 39
OVERDRIVE	p. 39
SATURATOR	p. 39
T-SCREAM	p. 40
BIT CRUSHER	p. 40
ISOLATOR	p. 40
RING MODULATOR	p. 40
PITCH SHIFTER	p. 40
AUTO PAN	p. 40

#### About note values

Some effect parameters (such as Rate or Delay Time) can be set by using note values.

$\mathbf{P}_{3}$	Sixty-fourth-note triplet	÷	Sixty-fourth note	<b>A</b> 3	Thirty-second-note triplet		Thirty-second note
$\mathbb{A}_3$	Sixteenth-note triplet	A.	Dotted thirty-second note	A	Sixteenth note	♪3	Eighth-note triplet
A	Dotted sixteenth note	♪	Eighth note	•3	Quarter-note triplet	Þ.	Dotted eighth note
	Quarter note	03	Half-note triplet	1	Dotted quarter note	0	Half note
03	Whole-note triplet	J.	Dotted half note	0	Whole note	1013	Double-note triplet
٥.	Dotted whole note	lioii	Double note				

#### NOTE

If you set the delay time as a note value, slowing down the tempo will not change the delay time beyond a certain length. There is an upper limit for the delay time so if it is set as a note value and you slow down the tempo until this upper limit is reached, the delay time cannot change any further. This upper limit is the maximum value that can be specified when setting the delay time as a numerical value.

### DELAY

This is a stereo delay.			
Parameter	Value	Explanation	
Tempo Sync Left, Right	OFF, ON	Specifies whether the delay time value of the left/right delay sounds is specified as a note value (ON) or not (OFF).	
Delay Left, Right Time	1–1300 ms, note	Delay time from the original sound until the left/right delay sound is heard	
Phase Left, Right	NORMAL, INVERSE	Phase of the delay sound	
Feedback Mode	NORMAL, CROSS	Selects the way in which delay sound is fed back into the effect <b>NORMAL:</b> The left/right delay sounds are fed back without modification. <b>CROSS:</b> The left/right delay sounds are alternately exchanged when fed back.	
Feedback	-98-+98 %	Adjusts the amount of the delay sound that's fed back into the effect. Negative "-" settings will invert the phase.	
HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which sound fed back to the effect is filtered out. If you don't want to filter out any high frequencies, set this parameter to BYPASS.	
Low Gain	-15–+15 dB	Gain of the low frequency range	
High Gain	-15-+15 dB	Gain of the high frequency range	
Level	0–127	Output Level	

## TAPE ECHO

A virtual tape echo that produces a realistic tape delay sound. This simulates the tape echo section of a Roland RE-201 Space Echo.

Parameter	Value	Explanation
Mode	S, M, L, S+M, S+L, M+L, S+M+L	Combination of playback heads to use Select from three different heads with different delay times S: Short M: Middle L: Long
Repeat Rate	0–127	Tape speed Increasing this value will shorten the spacing of the delayed sounds.
Intensity	0–127	Amount of delay repeats
Bass	-15–+15 dB	Boost/cut for the lower range of the echo sound
Treble	-15–+15 dB	Boost/cut for the upper range of the echo sound
Head S Pan	L64-R63	Independent stereo location for the
Head M Pan	L64–R63	short, middle, and long playback
Head L Pan	L64-R63	heads
Tape Distortion	0–5	Amount of tape-dependent distortion to be added This simulates the slight tonal changes that can be detected by signal-analysis equipment. Increasing this value will increase the distortion.
W/F Rate	0–127	Speed of wow/flutter (complex variation in pitch caused by tape wear and rotational irregularity)
W/F Depth	0–127	Depth of wow/flutter
Level	0–127	Output level

# **REVERSE DELAY**

This is a reverse delay that adds a reversed and delayed sound to the input sound. A tap delay is connected immediately after the reverse delay.

Parameter	Value	Explanation
Threshold	0–127	Volume at which the reverse delay will begin to be applied
Tempo Sync Rev	OFF, ON	Specifies whether the delay time value of the reverse delay is specified as a note value (ON) or not (OFF).
Rev Delay Time	1–1300 ms, note	Delay time from when sound is input into the reverse delay until the delay sound is heard
Rev Delay Feedback	-98-+98 %	Proportion of the delay sound that is to be returned to the input of the reverse delay. Negative "-" settings will invert the phase.
Rev Delay HF Damp	200–8000 Hz, BYPASS	Frequency at which the high- frequency content of the reverse-delayed sound will be cut (BYPASS: no cut)
Rev Delay Pan	L64–63R	Stereo location of the reverse delay sound
Rev Delay Level	0–127	Volume of the reverse delay sound
Tempo Sync Delay 1–3	OFF, ON	Specifies whether the delay time value of the tap delay is specified as a note value (ON) or not (OFF).
Delay 1–3 Time	1–1300 ms, note	Delay time from when sound is input into the tap delay until the delay sound is heard
Delay 3 Feedback	-98-+98 %	Proportion of the delay sound that is to be returned to the input of the tap delay (negative values invert the phase)
Delay HF Damp	200–8000 Hz, BYPASS	Frequency at which the high frequency content of the tap delay sound will be cut (BYPASS: no cut)
Delay 1 Pan, Delay 2 Pan	L64–63R	Stereo location of the tap delay sounds
Delay 1 Level, Delay 2 Level	0–127	Volume of the tap delay sounds
Low Gain	-15–+15 dB	Gain of the low frequency range
High Gain	-15–+15 dB	Gain of the high frequency range
Level	0–127	Output Level

### **3TAP PAN DELAY**

Produces three delay sounds; center, left and right.

Parameter	Value	Explanation
Tempo Sync Left, Right, Center	OFF, ON	Specifies whether the delay time value of the left/right/center delay sound is specified as a note value (ON) or not (OFF).
Delay Left, Right, Center Time	1–2600 ms, note	Adjusts the time until the delay sound is heard.
Center Feedback	-98-+98 %	Adjusts the amount of the delay sound that's fed back into the effect. Negative "-" settings invert the phase.
HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which sound fed back to the effect is filtered out. If you do not want to filter out any high frequencies, set this parameter to BYPASS.
Left, Right, Center Level	0–127	Volume of each delay
Low Gain	-15–+15 dB	Gain of the low frequency range
High Gain	-15–+15 dB	Gain of the high frequency range
Level	0–127	Output Level

### OD → DELAY

Parameter	Value	Explanation
Overdrive Drive	0–127	Degree of distortion Also changes the volume.
Overdrive Pan	L64–63R	Stereo location of the overdrive sound
Tempo Sync	OFF, ON	Specifies whether the delay time value of the delay is specified as a note value (ON) or not (OFF).
Delay Time	1–2600 ms, note	Adjusts the delay time from the direct sound until the delay sound is heard.
Delay Feedback	-98-+98 %	Adjusts the proportion of the delay sound that is fed back into the effect. Negative "-" settings will invert the phase.
Delay HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which sound fed back to the effect will be cut. If you do not want to cut the high frequencies, set this parameter to BYPASS.
Delay Balance	D100:0W– D0:100W	Adjusts the volume balance between the sound that is sent through the delay (W) and the sound that is not sent through the delay (D).
Level	0–127	Output Level

### DS → DELAY

The parameters are essentially the same as in "OD  $\rightarrow$  DELAY" with the exception of the following two.

Overdrive Drive → Distortion Drive, Overdrive Pan → Distortion Pan

### **CHORUS**

This is a stereo chorus. A filter is provided so that you can adjust the timbre of the chorus sound.

Parameter	Value	Explanation
		Type of filter <b>OFF:</b> no filter is used
Filter Type	OFF, LPF, HPF	<b>LPF:</b> cuts the frequency range above the Cutoff Freq
		<b>HPF:</b> cuts the frequency range below the Cutoff Freq
Cutoff Freq	200–8000 Hz	Basic frequency of the filter
Pre Delay	0.0–100.0 ms	Adjusts the delay time from the direct sound until the chorus sound is heard.
Tempo Sync	OFF, ON	Specifies whether the modulation rate is specified as a note value (ON) or not (OFF).
Rate	0.05–10.00 Hz, note	Frequency of modulation
Depth	0–127	Depth of modulation
Phase	0–180 deg	Spatial spread of the sound
Low Gain	-15-+15 dB	Gain of the low range
High Gain	-15-+15 dB	Gain of the high range
Level	0–127	Output Level

### SPACE-D

This is a multiple chorus that applies two-phase modulation in stereo. It gives no impression of modulation, but produces a transparent chorus effect.

Parameter	Value	Explanation
Pre Delay	0.0–100.0 ms	Adjusts the delay time from the direct sound until the chorus sound is heard.
Tempo Sync	OFF, ON	Specifies whether the modulation rate is specified as a note value (ON) or not (OFF).
Rate	0.05–10.00 Hz, note	Frequency of modulation
Depth	0–127	Depth of modulation
Phase	0–180 deg	Spatial spread of the sound
Low Gain	-15-+15 dB	Gain of the low range
High Gain	-15-+15 dB	Gain of the high range
Level	0–127	Output Level

# OD → CHORUS

Parameter	Value	Explanation
Overdrive Drive	0–127	Degree of distortion
		Also changes the volume.
Overdrive Pan	L64–63R	Stereo location of the overdrive sound
Chorus Pre Delay	0.0–100.0 ms	Adjusts the delay time from the direct sound until the chorus sound is heard.
Tempo Sync	OFF, ON	Specifies whether the modulation rate is specified as a note value (ON) or not (OFF).
Rate	0.05–10.00 Hz, note	Frequency of modulation
Chorus Depth	0–127	Depth of modulation
Chorus Balance	D100:0W– D0:100W	Adjusts the volume balance between the sound that is sent through the chorus (W) and the sound that is not sent through the chorus (D).
Level	0–127	Output Level

# DS → CHORUS

The parameters are essentially the same as in "OD  $\rightarrow$  CHORUS" with the exception of the following two.

Overdrive Drive → Distortion Drive, Overdrive Pan → Distortion Pan

### PHASER A

A phase-shifted sound is added to the original sound and modulated.

Parameter	Value	Explanation
Mode	4-STAGE, 8-STAGE, 12-STAGE	Number of stages in the phaser
Manual	0–127	Adjusts the basic frequency from which the sound will be modulated.
Tempo Sync	OFF, ON	Specifies whether the modulation rate is specified as a note value (ON) or not (OFF).
Rate	0.05–10.00 Hz, note	Frequency of modulation
Depth	0–127	Depth of modulation
Polarity	INVERSE, SYNCHRO	Selects whether the left and right phase of the modulation will be the same or the opposite. <b>INVERSE:</b> The left and right phase will be opposite. When using a mono source, this spreads the sound. <b>SYNCHRO:</b> The left and right phase will be the same. Select this when inputting a stereo source.
Resonance	0–127	Amount of feedback
Cross Feedback	-98-+98 %	Adjusts the proportion of the phaser sound that is fed back into the effect. Negative "-" settings will invert the phase.
Low Gain	-15-+15 dB	Gain of the low range
High Gain	-15-+15 dB	Gain of the high range
Level	0–127	Output Level

### PHASER B

This simulates a different analog phaser than Phaser A.

Parameter	Value	Explanation
Speed	0–100	Frequency of modulation
Depth	0–127	Depth of modulation
Low Gain	-15-+15 dB	Gain of the low range
High Gain	-15–+15 dB	Gain of the high range
Level	0–127	Output Level

#### **STEP PHASER**

Parameter	Value	Explanation
Mode	4-STAGE, 8-STAGE, 12-STAGE	Number of stages in the phaser
Manual	0–127	Adjusts the basic frequency from which the sound will be modulated.
Tempo Sync (Rate)	OFF, ON	Specifies whether the modulation rate is specified as a note value (ON) or not (OFF).
Rate	0.05–10.00 Hz, note	Frequency of modulation
Depth	0–127	Depth of modulation
Polarity	INVERSE, SYNCHRO	Selects whether the left and right phase of the modulation will be the same or the opposite. <b>INVERSE:</b> The left and right phase will be opposite. When using a mor source, this spreads the sound. <b>SYNCHRO:</b> The left and right phase will be the same. Select this when inputting a stereo source.
Resonance	0–127	Amount of feedback
Cross Feedback	-98-+98 %	Adjusts the proportion of the phase sound that is fed back into the effect Negative "-" settings will invert the phase.
Tempo Sync (Step Rate)	OFF, ON	Specifies whether the modulation rate of the phaser effect is specified as a note value (ON) or not (OFF).
Step Rate	0.10–20.00 Hz, note	Rate of the step-wise change in the phaser effect
Low Gain	-15-+15 dB	Gain of the low range
High Gain	-15-+15 dB	Gain of the high range
Level	0-127	Output Level

## FLANGER

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

Parameter	Value	Explanation
		Type of filter <b>OFF:</b> no filter is used
Filter Type	OFF, LPF, HPF	<b>LPF:</b> cuts the frequency range above the Cutoff Freq
		<b>HPF:</b> cuts the frequency range below the Cutoff Freq
Cutoff Freq	200-8000 Hz	Basic frequency of the filter
Pre Delay	0.0–100.0 ms	Adjusts the delay time from when the direct sound begins until the flanger sound is heard.
Tempo Sync	OFF, ON	Specifies whether the modulation rate is specified as a note value (ON) or not (OFF).
Rate	0.05–10.00 Hz, note	Frequency of modulation
Depth	0-127	Depth of modulation
Phase	0–180 deg	Spatial spread of the sound
Feedback	-98-+98 %	Adjusts the proportion of the flanger sound that is fed back into the effect. Negative "-" settings will invert the phase.
Low Gain	-15-+15 dB	Gain of the low range
High Gain	-15-+15 dB	Gain of the high range
Level	0-127	Output Level

#### REVERB

Adds reverberation to the direct sound, simulating an acoustic space.

,		
Parameter	Value	Explanation
Туре	ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2	Type of reverb
Pre Delay	0.0–100 msec	Adjusts the delay time from the direct sound until the reverb sound is heard.
Time	0–127	Time length of reverberation
HF Damp	200–8000 Hz, BYPASS	Adjusts the frequency above which the reverberant sound will be cut (BYPASS: no cut).
Low Gain	-15-+15 dB	Gain of the low range
High Gain	-15-+15 dB	Gain of the high range
Level	0–127	Output Level

### LONG REVERB

This is a very rich sounding reverb with a choice of character.

Parameter	Value	Explanation
Depth	0–127	Depth of the effect
Time	0–127	Time length of reverberation
Pre LPF	16–15000 Hz, BYPASS	Frequency of the filter that cuts the high-frequency content of the input sound (BYPASS: no cut)
Pre HPF	BYPASS, 16–15000 Hz	Frequency of the filter that cuts the low-frequency content of the input sound (BYPASS: no cut)
Peaking Freq	200–8000 Hz	Frequency of the filter that boosts/ cuts a specific frequency region of the input sound
Peaking Gain	-15–+15 dB	Amount of boost/cut produced by the filter at the specified frequency region of the input sound
Peaking Q	0.5–8.0	Bandwidth of the filter that boosts or cuts the specified frequency region of the input sound
HF Damp	16–15000 Hz, BYPASS	Frequency at which the high- frequency content of the resonant sound will be cut (BYPASS: no cut)
LF Damp	BYPASS, 16–15000 Hz	Frequency at which the low- frequency content of the resonant sound will be cut (BYPASS: no cut)
Character	1–6	Type of reverb
EQ Low Freq	200–400 Hz	Center frequency of the low region
EQ Low Gain	-15-+15 dB	Gain of the low range
EQ High Freq	2000-8000 Hz	Center frequency of the high region
EQ High Gain	-15–+15 dB	Gain of the high range
Level	0–127	Output Level

### **SUPER FILTER**

This is a filter with an extremely sharp slope. The cutoff frequency can be varied cyclically

Parameter	Value	Explanation	
	Filter type		
	Frequency range t	hat will pass through each filter	
Filter Type	LPF	Frequencies below the cutoff	
	BPF	Frequencies in the region of the cutoff	
	HPF	Frequencies above the cutoff	
	NOTCH	Frequencies other than the region o the cutoff	
	Amount of attenua	ation per octave	
514 61	-12 dB	Gentle	
Filter Slope	-24 dB	Steep	
	-36 dB	Extremely steep	
		Cutoff frequency of the filter	
Filter Cutoff	0–127	Increasing this value will raise the cutoff frequency.	
		Filter resonance level	
Filter Resonance	0–127	Increasing this value will emphasize the region near the cutoff frequency	
Filter Gain	0–+12 dB	Amount of boost for the filter outpu	
Modulation Sw	OFF, ON	On/off switch for cyclic change	
	How the cutoff frequency will be modulated		
	TRI	Triangle wave	
	SQR	Square wave	
	SIN	Sine wave	
Modulation Wave	SAW1	Sawtooth wave (upward)	
	SAW2	Sawtooth wave (downward)	
	SAW1	SAW2	
Tempo Sync	OFF, ON	Specifies whether the modulation rate is specified as a note value (ON) or not (OFF).	
Rate	0.05–10.00 Hz, note	Rate of modulation	
Depth	0–127	Depth of modulation	
Attack	0–127	Speed at which the cutoff frequency will change This is effective if Modulation Wave SQR, SAW1, or SAW2.	
Level	0–127	Output Level	

#### FILTER+DRIVE

This is a low-pass filter equipped with overdrive. It cuts the upper range and adds distortion.

Parameter	Value	Explanation
Cutoff	0–127	Cutoff frequency of the filter Increasing this value will raise the cutoff frequency.
Resonance	0–127	Filter resonance level Increasing this value will emphasize the region near the cutoff frequency.
Drive	0–127	Amount of distortion
Level	0–127	Output Level

#### AUTO WAH

Cyclically controls a filter to create cyclic change in timbre.

Parameter	Value	Explanation
Filter Type	LPF, BPF	Type of filter LPF: The wah effect will be applied over a wide frequency range. BPF: The wah effect will be applied over a narrow frequency range.
Manual	0–127	Adjusts the center frequency at which the effect is applied.
Peak	0–127	Width of the frequency region at which the wah effect is applied Increasing this value will make the frequency region narrower.
Sens	0–127	Adjusts the sensitivity with which the filter is controlled.
Polarity	UP, DOWN	Direction in which the filter will move UP: Move toward a higher frequency DOWN: Move toward a lower frequency
Tempo Sync	OFF, ON	Specifies whether the modulation rate is specified as a note value (ON) or not (OFF).
Rate	0.05–10.00 Hz, note	Frequency of modulation
Depth	0-127	Depth of modulation
Phase	0–180 deg	Adjusts the degree of phase shift of the left and right sounds when the wah effect is applied.
Low Gain	-15-+15 dB	Gain of the low range
High Gain	-15-+15 dB	Gain of the high range
Level	0–127	Output Level

#### OD/DS → TWAH

Parameter	Value	Explanation
Drive Switch	OFF, ON	Turns overdrive/distortion on/off
Drive Type	OVERDRIVE, DISTORTION	Type of distortion
Drive	0–127	Degree of distortion Also changes the volume.
Tone	0–127	Sound quality of the Overdrive effect
Amp Switch	OFF, ON	Turns the Amp Simulator on/off.
Атр Туре	SMALL, BUILT-IN, 2-STACK, 3-STACK	Type of guitar amp SMALL: small amp BUILT-IN: single-unit type amp 2-STACK: large double stack amp 3-STACK: large triple stack amp
<b>Touch Wah Switch</b>	OFF, ON	Wah on/off
Touch Wah Mode	LPF, BPF	Type of filter LPF: Produces a wah effect in a broad frequency range. BPF: Produces a wah effect in a narrow frequency range.
Touch Wah Polarity	DOWN, UP	Direction in which the filter will move UP: Move toward a higher frequency DOWN: Move toward a lower frequency
Touch Wah Sens	0–127	Sensitivity with which the filter is modified
Touch Wah Manual	0–127	Center frequency at which the wah effect is applied
Touch Wah Peak	0–127	Width of the frequency region at which the wah effect is applied Increasing this value will make the frequency region narrower.
Touch Wah Balance	D100:0W– D0:100W	Volume balance of the sound that passes through the wah (W) and the unprocessed sound (D)
Low Gain	-15–+15 dB	Gain of the low range
High Gain	-15–+15 dB	Gain of the high range
Level	0–127	Output Level

#### LOFI COMPRESS

This is an effect that intentionally degrades the tone character for creative purposes.

Parameter	Value	Explanation
Pre Filter Type	1–6	Selects the type of filter applied to the sound before it passes through the Lo-Fi effect.
		1: Compressor off
		2-6: Compressor on
LoFi Type	1–9	Degrades the tone character. The tone character grows poorer as this value is increased.
	OFF, LPF, HPF	Selects the type of filter applied to the sound after it passes through the Lo-Fi effect.
		OFF: no filter is used
Post Filter Type		<b>LPF:</b> cuts the frequency range above the Cutoff
		<b>HPF:</b> cuts the frequency range below the Cutoff
Post Filter Cutoff	200–8000 Hz	Basic frequency of the Post Filter
Low Gain	-15–+15 dB	Gain of the low range
High Gain	-15-+15 dB	Gain of the high range
Level	0–127	Output Level

### DISTORTION

This is a distortion effect that provides heavy distortion.

Parameter	Value	Explanation
<b>.</b>	0-127	Degree of distortion
Drive	0-127	Also changes the volume.
Tone	0-127	Sound quality of the Overdrive effect
Amp Sw	OFF, ON	Turns the Amp Simulator on/off.
Amp Type		Type of guitar amp
		SMALL: small amp
	SMALL, BUILT-IN, 2-STACK, 3-STACK	BUILT-IN: single-unit type amp
	2-31ACK, 3-31ACK	2-STACK: large double stack amp
		3-STACK: large triple stack amp
Low Gain	-15-+15 dB	Gain of the low range
High Gain	-15-+15 dB	Gain of the high range
Pan	L64–63R	Stereo location of the output sound
Level	0–127	Output Level

### **OVERDRIVE**

This is an overdrive that provides heavy distortion. The parameters are the same as for "DISTORTION."

#### SATURATOR

A saturator which distorts the sound is connected in parallel with a compressor, producing a rougher tonal character and boosting the loudness. This also cuts the low-frequency region of the input audio.

Parameter	Value	Explanation
Saturator Gain	0–127	Input volume to the saturator
Saturator Drive	0–127	Degree of distortion
Saturator Level	0–127	Output volume of the saturator
Comp Depth	0–127	Amount of compression
Comp Level	0–127	Output volume of the compressor
Hi Gain	-12-+6 dB	Gain of the high range
Level	0–127	Output Level

#### **T-SCREAM**

This models the analog overdrive of the past.

It adds a nice amount of overtones without dirtying the sound.

Parameter	Value	Explanation			
Distortion	0–127	Degree of distortion Also changes the volume.			
Tone	0–127	Sound quality of the Overdrive effect			
Level	0–127	Output Level			

#### **BIT CRUSHER**

#### This creates a lo-fi sound.

Parameter	Value	Explanation
Sample Rate	0–127	Adjusts the sample rate.
Bit Down	0–18	Adjusts the bit depth.
Filter	0–127	Adjusts the filter depth.
Low Gain	-15–+15 dB	Gain of the low range
High Gain	-15-+15 dB	Gain of the high range
Level	0–127	Output Level

#### **ISOLATOR**

This is an equalizer which cuts the volume greatly, allowing you to add a special effect to the sound by cutting the volume in varying ranges.

Parameter	Value	Explanation
Boost/Cut Low	-	These boost and cut each of the High, Middle, and Low frequency
Boost/Cut Mid	-60–+4 dB	ranges At -60 dB, the sound becomes
Boost/Cut High		inaudible. 0 dB is equivalent to the input level of the sound.
Anti Phase Low		Turns the Anti-Phase function on/off for the Low frequency ranges
Sw	OFF, ON	When turned on, the counter- channel of stereo sound is inverted and added to the signal.
		Adjusts the level settings for the Low frequency ranges
Anti Phase Low Level	0–127	Adjusting this level for certain frequencies allows you to lend emphasis to specific parts (This is effective only for stereo source.).
Anti Phase Mid Sw	OFF, ON	Settings of the Anti-Phase function for the Middle frequency ranges
Anti Phase Mid Level	0–127	The parameters are the same as for the Low frequency ranges.
Low Boost Sw	OFF, ON	Turns Low Booster on/off This emphasizes the bottom to create a heavy bass sound.
		Increasing this value gives you a heavier low end
Low Boost Level	0–127	<ul> <li>Depending on the Isolator and filter settings this effect may be hard to distinguish.</li> </ul>
Level	0–127	Output Level

#### **RING MODULATOR**

This is an effect that applies amplitude modulation (AM) to the input signal, producing bell-like sounds. You can also change the modulation frequency in response to changes in the volume of the sound sent into the effect.

Parameter	Value	Explanation
Frequency	0–127	Adjusts the frequency at which modulation is applied.
Sens	0–127	Adjusts the amount of frequency modulation applied.
Polarity	UP, DOWN	Direction in which the frequency modulation will move UP: Towards higher frequencies DOWN: Towards lower frequencies
Low Gain	-15-+15 dB	Gain of the low range
High Gain	-15-+15 dB	Gain of the high range
Level	0-127	Output Level

#### **PITCH SHIFTER**

Parameter	Value	Explanation
Coarse	-24-+12 semi	Adjusts the pitch of the pitch shifted sound in semitone steps.
Fine	-100–+100 cent	Adjusts the pitch of the pitch shifted sound in 2-cent steps.
Tempo Sync	OFF, ON	Specifies whether the delay time value of the delay is specified as a note value (ON) or not (OFF).
Delay Time	1–1300 ms, note	Adjusts the delay time from the direct sound until the pitch shifted sound is heard.
Feedback	-98-+98 %	Adjusts the proportion of the pitch shifted sound that is fed back into the effect. Negative "-" settings will invert the phase.
Low Gain	-15-+15 dB	Gain of the low range
High Gain	-15-+15 dB	Gain of the high range
Level	0-127	Output Level

#### AUTO PAN

Cyclically modulates the stereo location of the sound.

Parameter	Value	Explanation
		Modulation wave
		TRI: Triangle wave
	TRI COD CINI	SQR: Square wave
	TRI, SQR, SIN, SAW1, SAW2, TRP	SIN: Sine wave
	5/001, 5/002, 110	SAW1: Sawtooth wave (upward)
		SAW2: Sawtooth wave (downward)
Mod Wave		TRP: Trapezoidal wave
	SAW1	SAW2
	R	
Tempo Sync	OFF, ON	Specifies whether the rate of modulation applied to the effect is specified as a note value (ON) or not (OFF).
Rate	0.05–10.00 Hz, note	Frequency of the change
Depth	0–127	Depth to which the effect is applied
Low Gain	-15-+15 dB	Gain of the low range
High Gain	-15-+15 dB	Gain of the high range
Level	0-127	Output Level

## Drum Kit List

No.	Drum kit name	Sub name
1	Jarrah Ply	Hardwood
2	Rock Legend	Studio"LiveRoom"
3	STUDIO B	Med/Stone Wall
4	WalnutPopper	Compact Kit
5	Power Metal	
6	Rootsy Funk	
7	BubingaBoom	
8	FAT+808	RnB,HipHop Style
9	Perc Tribe	Pedal:Pitch Bend
10	Beatnik	Processed Hybrid
11	STUDIO A	Large/Hi Celling
12	Stainless	70's Vintage
13	Second Line	New Orleans
14 15	Heavy Prog Blues Club	
16	JarrahFunk	Contemporary
17	MuterBeat	Contemporary
18	Loop-U-Lator	Ring Modulator
19	Cosmic Pop	w/ Super Saw
20	Trash Noiser	
21	Drum Booth	Med/Cloth Wall
22	BigBeat Rock	
23	Waxy Jazz	Bebop Style
24	GroovePopper	
25	Hard Rock	80's/90's
26	Moon Walk	Tape Echo
27	Bubinga	w/ 80'sBeechS
28	Hybrid DnB	
29	Funky Fat	Overdrive
30	TrashElectro	2nd Hi-Hat
31	Studio	LiveRoom Session
32	Phasin' Rock	
33	Round Badge	60's Vintage
34	80's Studio	Deep Shell Toms
35 36	ShallowShell	w/ ProtoChinaCym w/ Timbales
37	Roots Reggae RingingTones	No Muffling
38	Warm Groove	
39	Jazz Hop	Compact Kit
40	ExtremeMetal	Lo-Fi Compress
41	Verb Ballad	w/ Percussion
42	DownUnder	West Coast
43	60/70's Hit	
44	Dance Beats	Old School
45	House=909	2nd Hi-Hat
46	Ana Hybrid	Flanger&Phaser
47	Short Tail	Melodic Toms
48	Unplugged	Cajon CompactKit
49	+Latin Perc	w/Tambourine HH
50	Laboratory	Sound Textures
51	User Kit	
52	User Kit	
53 54	User Kit User Kit	
55	User Kit	
56	User Kit	
57	User Kit	
58	User Kit	
59	User Kit	
60	User Kit	
61	User Kit	
62	User Kit	
63	User Kit	
64	User Kit	
65	User Kit	
66	User Kit	
67	User Kit	
68	User Kit	
69	User Kit	

No.	Drum kit name	Sub name
70	User Kit	
71	User Kit	
72	User Kit	
73	User Kit	
74	User Kit	
75	User Kit	
76	User Kit	
77	User Kit	
78	User Kit	
79	User Kit	
80	User Kit	
81	User Kit	
82	User Kit	
83	User Kit	
84	User Kit	
85	User Kit	
86	User Kit	
87	User Kit	
88	User Kit	
89	User Kit	
90	User Kit	
91	User Kit	
92	User Kit	
93	User Kit	
94	User Kit	
95	User Kit	
96	User Kit	
97	User Kit	
98	User Kit	
99	User Kit	
100	User Kit	

# Instrument List

NL.	1	1	D	a al a a			
No.	Instrument name	Instrument group	Rem	arks			
0	OFF	OFF					
1	Jarrah Ply K	KICK A		*M1		*T	
2	MapleWInutChrryK	KICK A		*M1		*T	
3	Birch 18" K	KICK A		*M1		*T	
4	Bubinga 9Ply K	KICK A		*M1		*T	
5	60sRoundBdge20"K	KICK A		*M1		*T	
6	70s Maple 24" K	KICK A		*M1		*T	
7	70sStainless24"K	KICK A		*M1		*T	
8	Tight Kick 1	KICK PROC					
9	Tight Kick 2	KICK PROC					
10	Tight Kick 3	KICK PROC					
11	Impact Kick	KICK PROC					
12	Hybrid Kick	KICK PROC					
13	Tronic Kick	KICK PROC					
14	Electro Knock K	KICK PROC					
15	Minimal House K	KICK PROC					
16	Early House Kick	KICK PROC					
17	BreakBeats Kick1	KICK PROC					
18	BreakBeats Kick2	KICK PROC					
19	DnB Kick 1	KICK PROC					
20	DnB Kick 2	KICK PROC					
20	Nu Hip Kick	KICK PROC					
21	Lo-Fi Kick	KICK PROC	-				
22	Hi Jumper Kick	KICK PROC				-	
25 24		KICK PROC					
	Lo Jumper Kick						
25	Dance Kick	KICK PROC					
26	Dancer Kick	KICK PROC					
27	Voice Kick 1	KICK PROC					
28	Voice Kick 2	KICK PROC					
29	Analog Kick 1	KICK ELEC					
30	Analog Kick 2	KICK ELEC					
31	Analog Kick 3	KICK ELEC					
32	CR-78 Kick	KICK ELEC					
33	TR-606 Kick	KICK ELEC					
34	TR-808 Kick 1	KICK ELEC					
35	TR-808 Kick 2	KICK ELEC					
36	TR-808 Kick Long	KICK ELEC					
37	TR-909 Kick 1	KICK ELEC					
38	TR-909 Kick 2	KICK ELEC					
39	TR-909 Kick 3	KICK ELEC					
40	DR-110 Kick	KICK ELEC					
41	R-8 Kick	KICK ELEC					
42	Jarrah Ply S	SNARE A	*P	*M1	*Х	*T	*D
43	Jarrah Ply SR	SNARE A	*P	*M1	*Х	*T	*D
44	MapleOilFinish S	SNARE A	*P	*M1	*Х	*T	*D
45	MapleOilFinishSR	SNARE A	*P	*M1	*Х	*T	*D
46	80sBeech 12Ply S	SNARE A	*P	*M1	*Х	*T	*D
47	80sBeech12Ply SR	SNARE A	*P	*M1	*Х	*T	*D
48	Steel TubeLugs S	SNARE A	*P	*M1	*Х	*T	*D
49	SteelTubeLugs SR	SNARE A	*P	*M1	*Х	*T	*D
50	WalnutPopper12"S	SNARE A	*P	*M1	*Х	*T	*D
51	WalnutPoper12"SR	SNARE A	*P	*M1	*X	*T	*D
52	Jarrah Ply X	CROSS STICK		*M1	*X	• *T	
53	MapleOilFinish X	CROSS STICK		*M1	*X	• *T	
54	80sBeech 12Ply X	CROSS STICK		*M1	*X	*T	
55	Steel TubeLugs X	CROSS STICK		*M1	*X	*T	
55	WalnutPopper12"X	CROSS STICK	-	*M1	*X	*T	
	OldSchool Snare	SNARE PROC	-	IVII	^	1	
57							
58	DnB Snare	SNARE PROC	-				
59	Dub Step Snare	SNARE PROC	-				
60	Disto Slap Snare	SNARE PROC					
61	House Low Snare	SNARE PROC					

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No.	Instrument name	Instrument group	Rem	arks	
62	Hip Snare	SNARE PROC			
63	Garage Snare	SNARE PROC			
64	Radio Snare	SNARE PROC			
65	Voice Snare	SNARE PROC			
66	Voice CrossStick	SNARE PROC			
67	Analog Snare 1	SNARE ELEC			
68	Analog Snare 2	SNARE ELEC			
69	CR-78 Snare	SNARE ELEC			
70	TR-808 Snare 1	SNARE ELEC			
71	TR-808 Snare 2	SNARE ELEC			
72	TR-909 Snare	SNARE ELEC			
73	TR-909 S w/ Clap	SNARE ELEC			
74	TR-606 Snare	SNARE ELEC			
75	TR-707 Snare	SNARE ELEC			
76	DR-110 Snare	SNARE ELEC			
77	CR-78 Rim	SNARE ELEC			
78	TR-808 Rim	SNARE ELEC			
79	TR-909 Rim	SNARE ELEC		****	**
80	Jarrah Ply 8"	TOM A		*M1	*T
81	Jarrah Ply 8" R	TOM A	*P	*M1	*T
82	Jarrah Ply 10"	TOM A	* ~	*M1	*T
83	Jarrah Ply 10" R	TOM A	*P	*M1	*T
84	Jarrah Ply 12"	TOM A	**	*M1	*T
85	Jarrah Ply 12" R	TOM A	*P	*M1	*T
86	Jarrah Ply 14"	TOM A	× 0	*M1	*T
87	Jarrah Ply 14" R	TOM A	*P	*M1	*T
88	Jarrah Ply 16"	TOM A	×Đ	*M1	*T
89	Jarrah Ply 16" R	TOM A	*P	*M1	*T
90	Bubinga 9Ply 10"	TOM A	*P	*M1	*T
91 92	Bubinga9Ply10" R	TOM A	۳P	*M1 *M1	*T *T
92 93	Bubinga 9Ply 12"	TOM A	*P	*M1	*T
93 94	Bubinga9Ply12" R Bubinga 9Ply 14"	ТОМ А ТОМ А	۳P	*M1	*T
94 95	Bubinga9Ply14" R	TOM A	*P	*M1	*T
96	Bubinga 9Ply 16"	TOM A		*M1	 *T
90 97	Bubinga9Ply16" R	TOM A	*P	*M1	*T
98	60sRoundBadge13"	TOM A		*M1	 *T
99	60sRoundBdge13"R	ТОМ А	*P	*M1	*T
100	60sRoundBadge16"	ТОМ А		*M1	*T
100	60sRoundBdge16"R	TOM A	*P	*M1	*T
101	70sStainless 12"	TOM A		*M1	*T
102	70sStainless12"R	ТОМ А	*P	*M1	*T
104	70sStainless 13"	том а		*M1	*T
104	70sStainless13"R	TOM A	*P	*M1	*T
105	70sStainless 16"	TOM A		*M1	 *T
100	70sStainless16"R	TOM A	*P	*M1	 *T
107	70sStainless 18"	ТОМ А	ŀ	*M1	*T
109	70sStainless18"R	TOM A	*P	*M1	*T
110	Gong Drum 20"	TOM A	·	*M1	*T
111	Analog Tom1 T1	TOM ELEC	<u> </u>		
112	Analog Tom1 T2	TOM ELEC	-		
113	Analog Tom1 T3	TOM ELEC	-		
114	Analog Tom1 T4	TOM ELEC	<u> </u>		
115	Analog Tom2 T1	TOM ELEC	<u> </u>		
116	Analog Tom2 T2	TOM ELEC			
117	Analog Tom2 T3	TOM ELEC			
118	Analog Tom2 T4	TOM ELEC	<u> </u>		
119	TR-808 Tom T1	TOM ELEC			
120	TR-808 Tom T2	TOM ELEC			
121	TR-808 Tom T3	TOM ELEC			
122	TR-808 Tom T4	TOM ELEC			
123	TR-909 Tom T1	TOM ELEC			
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#### Instrument List

No.	Instrument name	Instrument group	Remarks	
124	TR-909 Tom T2	TOM ELEC	Remarks	
124	TR-909 Tom T3	TOM ELEC		
125	TR-909 Tom T4	TOM ELEC		
127	Trad Lathed HH	HI-HAT	*M2	*T
128	Trad Lathed HHE	HI-HAT	*M2	*T
129	Dark&Warm HH	HI-HAT	*M2	• *T
130	Dark&Warm HHE	HI-HAT	*M2	*T
131	Club Hi-Hat	HI-HAT PROC		
132	Sharp Hi-Hat	HI-HAT PROC		
133	Hip Hi-Hat	HI-HAT PROC		
134	House Hi-Hat	HI-HAT PROC		
135	DnB Hi-Hat	HI-HAT PROC		
136	LowStep Hi-Hat	HI-HAT PROC		
137	Voice Hi-Hat	HI-HAT PROC		
138	Spoke Hi-Hat	HI-HAT PROC		
139	CR-78 Hi-Hat	HI-HAT ELEC		
140	TR-808 Hi-Hat	HI-HAT ELEC		
141	TR-909 Hi-Hat	HI-HAT ELEC		
142	Trad MedThin Rd	RIDE	*P *M2	*T
143	Trad MedThin RdE	RIDE	*M2	*T
144	Trad MedThin RdB	RIDE	*M2	*T
145	Dry & Heavy Rd	RIDE	*P *M2	*T
146	Dry & Heavy RdE	RIDE	*M2	*T
147	Dry & Heavy RdB	RIDE	*M2	*T
148	Trad Thin Cr	CRASH	*M2	*T
149	Trad Thin CrE	CRASH	*M2	*T
150	Warm MedThin Cr	CRASH	*M2	*T
151	Warm MedThin CrE	CRASH	*M2	*T
152	Silvery Cr	CRASH	*M2	*T
153	Silvery CrE	CRASH	*M2	*T
154	Legacy Thin Cr	CRASH	*M2	*T
155	Legacy Thin CrE	CRASH	*M2	*T
156	Power Medium Cr	CRASH	*M2	*T
157	Power Medium CrE	CRASH	*M2	*T
158	Eight-sided Cr	CRASH	*M2	*T
159	Eight-sided CrE	CRASH	*M2	*T
160	Bright Thin Cr	CRASH	*M2	*T
161	Bright Thin CrE	CRASH	*M2	*T
162	Warm & Dark Ch	CHINA	*M2	*T
163	Warm & Dark ChE	CHINA	*M2	*T
164	Dark Swish Ch	CHINA	*M2	*T
165	Dark Swish ChE	CHINA	*M2	*T
166	70s BlackLogo Ch	CHINA	*M2 *M2	*T *T
167	70sBlackLogo ChE Mini China	CHINA	*M2	*T
168 169	Mini China E	CHINA	*M2	*T
170	TinyPrototype Ch	CHINA	*M2	*T
170	TinyPrototypeChE	CHINA	*M2	*T
171	Warm MedThin Sp	SPLASH	*M2	*T
172	Warm MedThin SpE	SPLASH	*M2	*T
174	BrightMedThin Sp	SPLASH	*M2	*T
175	BrightMedThinSpE	SPLASH	*M2	*T
176	NickelCoating Sp	SPLASH	*M2	*T
177	NickelCoatingSpE	SPLASH	*M2	*T
178	Chinese Type Sp	SPLASH	*M2	*T
179	Chinese Type SpE	SPLASH	*M2	*T
180	CleanSuperThinSp	SPLASH	*M2	*T
181	CleanSuprThinSpE	SPLASH	*M2	*T
182	18"Ch+18"Ch St	STACKED CYMBAL	*M2	*T
183	18"Ch+18"Ch StE	STACKED CYMBAL	*M2	*T
184	12"Ch+12"Ch St	STACKED CYMBAL	*M2	*T
185	12"Ch+12"Ch StE	STACKED CYMBAL	*M2	*T
		Children Children		

No.         Instrument name         Instrument group         Remarks           186         10"Ch+8"Ch St         STACKED CYMBAL         *M2           187         10"Ch+8"Ch StE         STACKED CYMBAL         *M2           188         10"HH+8"Ch+Sp St         STACKED CYMBAL         *M2           189         10"HH+8"Ch+SpStE         STACKED CYMBAL         *M2	*T *T *T *T
187         10"Ch+8"Ch StE         STACKED CYMBAL         *M2           188         10"HH+8"Ch+Sp St         STACKED CYMBAL         *M2	*T *T
188         10"HH+8"Ch+Sp St         STACKED CYMBAL         *M2	*T
· · · · · · · · · · · · · · · · · · ·	
189 10"HH+8"Ch+SpStE STACKED CYMBAL *M2	*T
190         18"ChCr+12"ChSt         STACKED CYMBAL         *M2	*T
191         18"ChCr+12"ChStE         STACKED CYMBAL         *M2	*T
192   18"Ch+12"Ch St   STACKED CYMBAL   *M2	*T
193         18"Ch+12"Ch StE         STACKED CYMBAL         *M2	*T
194         18"Cr+12"Ch St         STACKED CYMBAL         *M2	*T
195         18"Cr+12"Ch StE         STACKED CYMBAL         *M2	*T
196         18"Ch+11"TrashSt         STACKED CYMBAL         *M2	*T
197         18"Ch+11"TrshStE         STACKED CYMBAL         *M2	*T
198         Accent Cymbal         CYMBAL OTHERS	
199         Chime Cymbal         CYMBAL OTHERS	
200 Cross Cymbal 1 CYMBAL OTHERS	
201 Cross Cymbal 2 CYMBAL OTHERS	
202 Mini Cymbal CYMBAL OTHERS	
203 Metal Crasher CYMBAL OTHERS	
204 Pair Cymbal 1 CYMBAL OTHERS	
205 Pair Cym 1 Smash CYMBAL OTHERS	
206 Pair Cymbal 2 CYMBAL OTHERS	
207 Pair Cym 2 Choke CYMBAL OTHERS	
208 Sweep Crash CYMBAL PROC	
209 Lo-Fi Crash CYMBAL PROC	
210 Ambient Crash CYMBAL PROC	
211 Verby Crash CYMBAL PROC	
212 Trashy Ride CYMBAL PROC	
213 Phasing Ride CYMBAL PROC	
214 Cosmo Bell CYMBAL PROC	
215 Electra Bell CYMBAL PROC	
216 Reflective Bell CYMBAL PROC	
217 Voice Crash CYMBAL PROC	
218     Analog Cymbal     CYMBAL ELEC	
219   TR-808 Cymbal   CYMBAL ELEC	
220 TR-606 Cymbal CYMBAL ELEC	
221         Finger Cymbal         BELL/CHIME/GONG	
222     Rama Cymbal     BELL/CHIME/GONG	
223   Zil   BELL/CHIME/GONG	
224         Crotale         BELL/CHIME/GONG	
225         Sleigh Bells         BELL/CHIME/GONG	
225         Sidigit beils         DEEE/ chink/ solve           226         Bell Tree         BELL/CHIME/GONG	
220         Definition         Definit         Definition         Definition	
223         Processing         DEEL/CHIME/GONG           228         Pin Chime         BELL/CHIME/GONG	
220         Princhime         BELL/Chime/GONG           229         Tam Tam         BELL/CHIME/GONG	
230 Gong BELL/CHIME/GONG	
230         Gong         BELL/Chime/GONG           231         Bend Gong         BELL/CHIME/GONG	
231         Bend Gong         BELL/ChimL/Gong           232         Cowbell 1         BLOCK/COWBELL	
233 Cowbell 1 Tip BLOCK/COWBELL	
233     Cowbell Thp     BLOCK/COWBELL       234     Cowbell 2     BLOCK/COWBELL	
234     Cowbell 2     BLOCK/COWBELL       235     Cowbell 2 Tip     BLOCK/COWBELL	
235     Cowbell 2 Hp     BLOCK/COWBELL       236     Cowbell 3     BLOCK/COWBELL	
237 Cowbell 4 BLOCK/COWBELL	
237     Cowbell 4     BLOCK/COWBELL       238     Cowbell 5     BLOCK/COWBELL	
238     Cowbell 5     BLOCK/COWBELL       239     Cowbell 6     BLOCK/COWBELL	
241         Agogo Hi         BLOCK/COWBELL           242         Agogo Lo         PLOCK/COWPELL	
242         Agogo Lo         BLOCK/COWBELL           243         Wood Plack Hi         PLOCK/COWPELL	
243         Wood Block Hi         BLOCK/COWBELL           244         Wood Block Hi         BLOCK/COWBELL	
244         Wood Block Lo         BLOCK/COWBELL           245         Plastia Black Lik         PLOCK/COWBELL	
245         Plastic Block Hi         BLOCK/COWBELL           246         Plastic Block La         PLOCK/COMPELL	
246         Plastic Block Lo         BLOCK/COWBELL           247         Mini Directory         Directory	
247         Mini Block         BLOCK/COWBELL	

#### Instrument List

No.	Instrument name	Instrument group	Remarks
248	Temple Block Hi	BLOCK/COWBELL	
249	Temple Block Lo	BLOCK/COWBELL	
250 251	Bongo Hi Open Bongo Hi Slap	PERCUSSION PERCUSSION	
252	Bongo Lo Open	PERCUSSION	
252	Bongo Lo Slap	PERCUSSION	
255	Conga Open	PERCUSSION	
255	Conga Slap	PERCUSSION	
256	Conga Bass	PERCUSSION	
257	Conga Gliss	PERCUSSION	
258	Tumba Open	PERCUSSION	
259	Tumba Slap	PERCUSSION	
260	Tumba Bass	PERCUSSION	
261	Tumba Gliss	PERCUSSION	
262	Timbale Hi Open	PERCUSSION	
263	Timbale Hi Rim	PERCUSSION	
264	Timbale Hi Paila	PERCUSSION	
265	Timbale Mid Open	PERCUSSION	
266	Timbale Mid Rim	PERCUSSION	
267	Timbale MidPaila	PERCUSSION	
268	Timbale Lo Open	PERCUSSION	
269	Timbale Lo Rim	PERCUSSION	
270	Timbale Lo Paila	PERCUSSION	
271	Cajon Open	PERCUSSION	
272	Cajon Edge	PERCUSSION	
273	Cajon Slap	PERCUSSION	
274	Cajon Bass	PERCUSSION	
275	Pandeiro Open	PERCUSSION	
276	Pandeiro Slap	PERCUSSION	
277	Pandeiro Bass	PERCUSSION	
278	Pandeiro Jingle	PERCUSSION	
279	Djembe Open	PERCUSSION	
280	Djembe Slap	PERCUSSION	
281	Djembe Bass	PERCUSSION	
282	Djembe Ears	PERCUSSION	
283	Pot Drum Side	PERCUSSION	
284	Pot Drum Bass	PERCUSSION	
285	Pot Drum Release	PERCUSSION	
286	Pot Drum Side/Mt	PERCUSSION	
287	Tabla Na	PERCUSSION	
288	Tabla Ti	PERCUSSION	
289	Tabla Tin	PERCUSSION	
290	Tabla Tun	PERCUSSION	
291	Baya Ge	PERCUSSION	
292	Baya Ge Slide	PERCUSSION	
293 294	Baya Gin Baya Ka		
294 295	Baya Ka Darabuka Open	PERCUSSION	
295	Darabuka Slap	PERCUSSION	
290	Darabuka Bass	PERCUSSION	
298	Hira Taiko	PERCUSSION	
299	Hira Taiko Rim	PERCUSSION	<u> </u>
300	Nagado Taiko	PERCUSSION	<u> </u>
301	Nagado Taiko Rim	PERCUSSION	
302	Timpani Hi D	PERCUSSION	
303	Timpani Lo G	PERCUSSION	
304	Doumdoumba	PERCUSSION	
305	Doumdoumba Rim	PERCUSSION	
306	Repinique	PERCUSSION	
307	Repinique Rim	PERCUSSION	
308	Tamborim	PERCUSSION	
309	Surdo	PERCUSSION	

No.	Instrument name	Instrument group	Remarks
310	Bombo	PERCUSSION	
311	Bendir	PERCUSSION	
312	Tambourine 1	PERCUSSION	
313	Tambourine 2	PERCUSSION	
314	Tambourine 3	PERCUSSION	
315	Triangle 1	PERCUSSION	
316	Triangle 1 Mute	PERCUSSION	
317	Triangle 2	PERCUSSION	
318	Triangle 2 Mute	PERCUSSION	
319	Castanets	PERCUSSION	
320	Clapsticks	PERCUSSION	
321	Claves 1	PERCUSSION	
322	Claves 2	PERCUSSION	
323	Afro Claves	PERCUSSION	
324	Guiro Slide	PERCUSSION	
325	Guiro Shot	PERCUSSION	
326	Maracas	PERCUSSION	
327	Metal Maracas	PERCUSSION	
328	Shaker	PERCUSSION	
329	Caxixi	PERCUSSION	
330	Ganza	PERCUSSION	
331	Chafchas	PERCUSSION	
332	Afuche	PERCUSSION	
333	African Bracelet	PERCUSSION	
334	African Jingle	PERCUSSION	
335	Ankle Beads	PERCUSSION	
336	Rain Stick	PERCUSSION	
337	Vibra-Slap	PERCUSSION	
338	Ratchet	PERCUSSION	
339	Flex Metal	PERCUSSION	
340	FlexMetal BendUp	PERCUSSION	
341	Waterphone Hit	PERCUSSION	
342	CR-78 Bongo	PERC ELEC	
343	CR-78 Cowbell	PERC ELEC	
344	CR-78 Claves	PERC ELEC	
345	CR-78 Guiro	PERC ELEC	
346	CR-78 Maracas	PERC ELEC	
340			
	CR-78 Tambourine	PERC ELEC	
348	CR-78 Metal Beat	PERC ELEC	
349	TR-808 Conga Hi	PERC ELEC	
350	TR-808 Conga Mid	PERC ELEC	
351	TR-808 Conga Lo	PERC ELEC	
352	TR-808 Cowbell 1	PERC ELEC	
353	TR-808 Cowbell 2	PERC ELEC	
354	TR-808 Claves	PERC ELEC	
355	TR-808 Maracas	PERC ELEC	
356	TR-707 Cowbell	PERC ELEC	
357	TR-727 Agogo	PERC ELEC	
358	DR-55 Claves	PERC ELEC	
359	Clap	CLAP	
360	Claps	CLAP	
361	Torio Clap	CLAP	
362	Flamenco Clap	CLAP	
363	Ambience Clap	CLAP	
364	House Clap	CLAP	
365	Noise Clap	CLAP	
	· ·		
366	TR-808 Clap	CLAP	
367	TR-909 Clap	CLAP	
368	Finger Snap	CLAP	
369	Dense Click	SOUND FX	
370 371	Pulse	SOUND FX SOUND FX	

No.	Instrument name	Instrument group	Remarks
372	Dyna Filter	SOUND FX	
373	Random Noise 1	SOUND FX	
374	Random Noise 2	SOUND FX	
375	Beep	SOUND FX	
376	Fat Beep	SOUND FX	
377	Disto Beep	SOUND FX	
378	Techno Beef	SOUND FX	
	Space Beep		
379 380	Voice Beep	SOUND FX SOUND FX	
381			
	Super Low	SOUND FX	
382	Prevision	SOUND FX	
383 384	Ejector	SOUND FX	
	Echoic Shot	SOUND FX	
385	Super Shot	SOUND FX	
386	Rusty Iron	SOUND FX	
387	Digi Cup	SOUND FX	
388	Abstract Noise	SOUND FX	
389	Industrial 1	SOUND FX	
390	Industrial 2	SOUND FX	
391	Junk	SOUND FX	
392	Emergency	SOUND FX	
393	Discovery	SOUND FX	
394	Cave	SOUND FX	
395	Stomped Box	SOUND FX	
396	LP Noise	SOUND FX	
397	Low Frequency 1	ELEMENTS	
398	Low Frequency 2	ELEMENTS	
399	Low Frequency 3	ELEMENTS	
400	Attack 1	ELEMENTS	
401	Attack 2	ELEMENTS	
402	Attack 3	ELEMENTS	
403	Attack 4	ELEMENTS	
404	Noise 1	ELEMENTS	
405	Noise 2	ELEMENTS	
406	Noise 3	ELEMENTS	
407	Noise 4	ELEMENTS	
408	Noise 5	ELEMENTS	
409	Noise 6	ELEMENTS	
410	White Noise 1	ELEMENTS	
411	White Noise 2	ELEMENTS	
412	Sine Wave 1kHz	ELEMENTS	
413	Sine Wave C	ELEMENTS	
414	Triangle Wave C	ELEMENTS	
415	Square Wave C	ELEMENTS	
416	Sawtooth Wave1 C	ELEMENTS	
417	Sawtooth Wave2 C	ELEMENTS	
418	Super Saw C	ELEMENTS	

*P Can get various changes of the sound in accordance with the positioning where on the pad you hit with a stick. In rim sounds, can get such various changes of the sound in accordance with the depth of the stick on the rim.

*M1 Mic Position, Mic Overhead, Mic Room, and Mic Width are supported.

- *M2 Mic Position, Mic Overhead, and Mic Width are supported.
- *X Rim shot and cross stick can be played separately.
- *T TRANSIENT is supported.
- *D Dynamic Enhancer is supported.

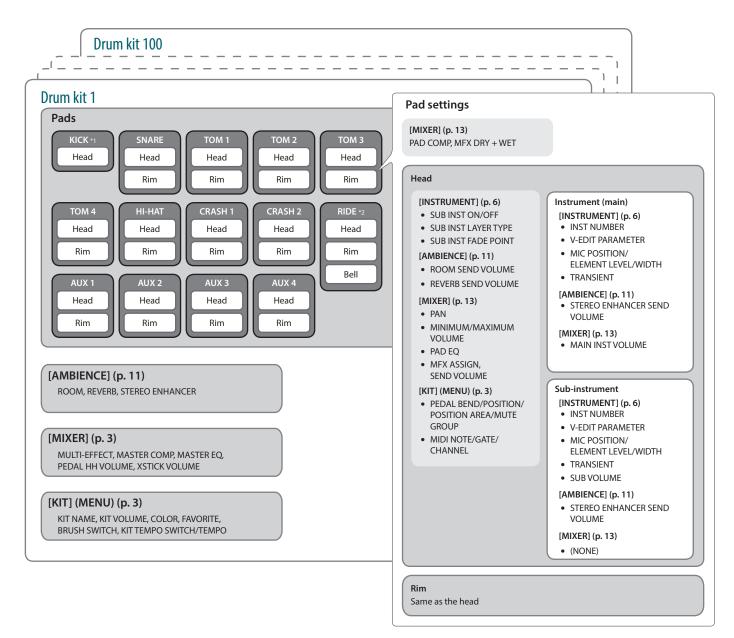
* For details on how the trigger input corresponds to your performance technique and striking position, refer to "Trig Type list" (p. 23).

# Song List

001–007: Drum performance data 008–027: Audio data

No.	Song name
001	Drum Solo
002	Ride Demo
003	Kick Demo
004	Toms Demo
005	Preview 1
006	Preview 2
007	Preview 3
008	Rock 1 (AUDIO)
009	Rock 2 (AUDIO)
010	Rock 3 (AUDIO)
011	Rock 4 (AUDIO)
012	Jazz 1 (AUDIO)
013	Jazz 2 (AUDIO)
014	Jazz 3 (AUDIO)
015	Jazz 4 (AUDIO)
016	Pop 1 (AUDIO)
017	Pop 2 (AUDIO)
018	Pop 3 (AUDIO)
019	Funk 1 (AUDIO)
020	Funk 2 (AUDIO)
021	Funk 3 (AUDIO)
022	Funk 4 (AUDIO)
023	Metal 1 (AUDIO)
024	Metal 2 (AUDIO)
025	Latin (AUDIO)
026	Dance 1 (AUDIO)
027	Dance 2 (AUDIO)

## Drum Kit Parameter Structure



*1 KICK does not have a rim.

*2 For RIDE, the bell can be set in the same way as the head.

# Block Diagram

