

Parameters Added to the DD-500 (Ver.2.00)

Added Function for Phrase Loop (p. 9)

A method of clearing the phrase loop has been added.





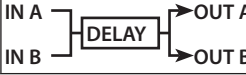
With playback stopped, press the **[TAP/CTL]** switch twice. If you long-press the second time, the phrase is deleted without exiting Phrase Loop (the same as **[B]** switch + **[TAP/CTL]** switch).

You can use the **[▼]/[▲]** buttons to adjust the volume of the phrase (LOOP LEVEL).

Added PATCH Parameters

The following patch parameters have been added or changed.

Parameters Common to All Modes

Parameter	Explanation	
FEEDBACK DAMP (*1)	Adjusts the volume change during feedback.	
MOD MODE	SINGLE	Applies single-phase modulation.
	BI-PHASE	Applies bi-phase modulation. Produces a spacious sensation when stereo output is used.
INPUT LEVEL	Adjusts the input level to the delay.	
EQ SW	Specifies the insertion position of the EQ.	
	OFF	EQ is not applied.
	PRE	EQ is applied before the delay. 
	FEEDBACK LOOP (*2)	EQ is inserted within the feedback loop. This lets you create delay sound with a distinctive tonal character. 
	POST	EQ is applied after the delay. 
EQ HI.CUT	16.0 kHz has been added.	
HI DAMP F	16.0 kHz has been added.	
TEMPO HOLD	Specifies whether tempo (BPM) changes or is maintained when you switch patches. Maintaining the tempo also lets you maintain the delay time. However, the delay time will also change if the NOTE setting (such as ♩ or ♪) of the newly selected patch differs from that of the previous patch. You can change this setting for each patch.	
FB LOOP SW (*3)	Turns the feedback loop function on/off.	
INPUT MODE	A/B	INPUT jacks A and B are each processed completely independently, and output to OUTPUT jacks A and B. 
	MIX	The signal that is input from INPUT jacks A and B is mixed and processed. 
OUTPUT GAIN	Adjusts the output level.	



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*1: Except when MODE is “DUAL”, “VINT. DIGITAL”, “TAPE”, “ANALOG” or “TERA ECHO”

*2: Except when MODE is “TERA ECHO”

*3: Shown when SYSTEM:FEEDBACK LOOP is turned on and SYSTEM:FSW MODE is set to any settings other than A/B SIMUL

Parameters for Each Mode

MODE: SLOW ATTACK

Parameter	Explanation	
TARGET	EFFECT	Applies a slow attack effect only to the delay sound.
	ALL	Applies a slow attack effect both to the direct sound and the delay sound.
CURVE	Adjusts the envelope of the slow attack effect. Higher values produce a slower attack; lower values produce a faster attack.	

MODE: FILTER

Parameter	Explanation			
TYPE	AUTO	The filter is modulated cyclically.		
	TOUCH	The filter is modulated according to the volume of the input signal.		
		POLARITY	DOWN	The filter moves toward a lower frequency.
			UP	The filter moves toward a higher frequency.
		SENS	Specifies the sensitivity with which the filter moves in the direction specified by the POLARITY setting. Higher values produce a stronger response; with a setting of “0,” no wah effect occurs in response to picking.	
		PEAK	Adjusts the depth of the wah effect at the center frequency.	
	FREQ	Adjusts the center frequency of the wah effect.		
DECAY	Adjusts the rate at which the filter operates.			
FILTER TYPE	Selects the type of filter (LPF/BPF/HPF). The name has been changed from “TYPE.”			

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MODE: SHIMMER

Parameter	Explanation			
TYPE	PITCH	This lets you freely specify the amount of pitch shift for the delay.		
		PS MODE	MONO	The input is mixed to mono and then processed.
			STEREO	The pitch shift is applied independently to INPUT A and B. When using mono input, you can specify two pitch shift amounts for the input.
				PITCH2 SHIFT
			PITCH2 FINE	Specifies a fine adjustment to the amount of pitch shift. A change of 100 in the Fine setting corresponds to a change of 1 in the Pitch Shift setting.
			PS FEEDBACK	Adjusts the amount of feedback for the pitch shift.
	PS2 FEEDBACK			
	RISE TIME	Higher settings of this value make the pitch-shifted sound rise more slowly.		
	OVERTONE	Allows you to add a sound an octave above or below. This has a softer tonal character than PITCH, and follows chords especially well.		
		UPPER	Adjusts the volume of the sound an octave higher.	
LOWER		Adjusts the volume of the sound an octave lower.		
DIRECT		Adjusts the volume of the direct sound.		

MODE: SFX

Parameter	Explanation		
TYPE	TREMOLO	Tremolo is applied to the effect sound.	
		WAVEFORM	The name has been changed from TR WAVE.
		RATE	The name has been changed from TR RATE.
		DEPTH	The name has been changed from TR DEPTH.
	PHASER	Phaser is applied to the effect sound.	
		RATE	Adjusts the speed of rotation.
		DEPTH	Adjusts the depth of the rotation effect.
		RESONANCE	Adjusts the amount of resonance (the amount of feedback).
	MANUAL	Adjusts the center frequency at which the rotation effect is applied.	
	POSITION	The name has been changed from TR POS.	

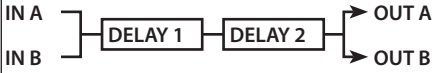
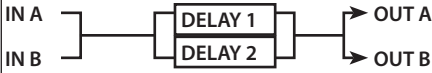
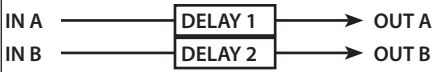
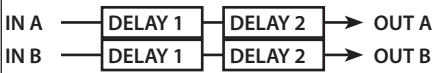
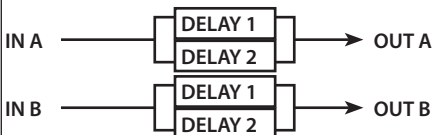
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MODE: PATTERN

Parameter	Explanation		
TYPE	DELAY	The same as the previous PATTERN.	
	GATE		Applies a programmed gate to the delay.
		PATTERN	Selects the slice pattern by which the sound is sliced.
		STEP NUMBER (*)	Selects the number of steps that are played as the pattern. For example, if you specify "8," one measure is divided into eight equal steps and played back.
		STEP 1-24 LENGTH (*)	Adjusts the length of each step. 0: No sound is heard. 1-99: Sound is heard according to the specified duration. 100: Sound continues to the next step.
STEP 1-24 LEVEL (*)	Adjusts the effect at each step.		

* Shown if PATTERN is "USER."

MODE: DUAL

Parameter	Explanation	
DUAL MODE		Selects how the two delay units are arranged.
	SERIES	
	PARALLEL	
	A/B	
	A/B SERIS	
	A/B PARA	
D1 TYPE, D2 TYPE	Selects the two delay types individually.	

MODE: VINT. DIGITAL

Parameter	Explanation
DELAY PHASE	Specifies the phase of the delay sound. Selecting INV inverts the phase.
FEEDBACK PHASE	Specifies the phase of the delay sound's feedback. Selecting INV inverts the phase.

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MODE: TAPE

Parameter	Explanation			
TYPE	RE-201	Models the Roland RE-201.		
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">TAPE HEAD</td> <td>Selects the playback head that is used. Playback heads 2/3 produce a delay time that is double/triple the delay time of playback head 1.</td> </tr> </table>	TAPE HEAD	Selects the playback head that is used. Playback heads 2/3 produce a delay time that is double/triple the delay time of playback head 1.
	TAPE HEAD	Selects the playback head that is used. Playback heads 2/3 produce a delay time that is double/triple the delay time of playback head 1.		
	EchoR	Models the Binson EchoRec2.		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">DISK HEAD</td> <td>Selects the combination of playback heads.</td> </tr> <tr> <td>SELECTOR</td> <td>Selects the operating mode of the delay. Depending on the mode that's selected, the FEEDBACK knob will not work in some cases.</td> </tr> </table>		DISK HEAD	Selects the combination of playback heads.	SELECTOR
DISK HEAD	Selects the combination of playback heads.			
SELECTOR	Selects the operating mode of the delay. Depending on the mode that's selected, the FEEDBACK knob will not work in some cases.			

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BANK

Here's how to specify how patches A and B are connected and output when in simul mode.

* BANK is shown only if the SYSTEM parameter FSW MODE is set to A/B SIMUL.

Simul mode settings (BANK)

1. Press the [EDIT] button.
2. Use the [▲] [▼] buttons to select "BANK," and then press the [EDIT] button.
3. Use the [▲] [▼] buttons to select a parameter, and use the [TIME/VALUE] knob to edit the value.

Parameter	Value	Explanation
CONNECTION		Specifies how patches A and B are connected.
	SERIES	Patches A and B are connected in series, in the order A → B.
	PARALLEL	Patches A and B are connected in parallel.
OUTPUT MODE (*1)		Specifies how sound is output from the OUTPUT A/MONO and B jacks.
	MIX	Patches A and B are mixed and output.
	A/B	Sound that is input to the INPUT A/MONO jack passes through patch A and is output to the OUTPUT A/MONO jack. Sound that is input to the INPUT B jack passes through patch B and is output to the OUTPUT B jack.
D.LEVEL ADJUST	50% – 200%	Adjusts the volume of the direct sound when patches A and B are both turned on.
SYNC (*2)	OFF, ON	Selects whether the delay time of patch B is synchronized to the delay time of patch A (ON) or is not synchronized (OFF). NOTE can be adjusted for each patch.
FB LOOP SEL (*3)	OFF, ON	Specifies the patch for which the feedback loop function is used.

*1: Shown if CONNECTION is "PARALLEL."

*2: Not available for modes that do not have RATE or BPM.

*3: Shown only if FEEDBACK LOOP is ON and FSW MODE is A/B SIMUL.

Parameters Added to CONTROL

Parameter	Explanation			
TAP/CTL	HOLD	MODE	MOMENT	Normally off (minimum value); on (maximum value) only while pressed.
			TOGGLE	Alternates between off (minimum value) and on (maximum value) at each press.
		LEVEL	Specifies the level.	
	WARP	MODE	MOMENT	Normally off (minimum value); on (maximum value) only while pressed.
			TOGGLE	Alternates between off (minimum value) and on (maximum value) at each press.
		LEVEL	Specifies the level.	
	TWIST	MODE	MOMENT	Normally off (minimum value); on (maximum value) only while pressed.
			TOGGLE	Alternates between off (minimum value) and on (maximum value) at each press.
		LEVEL	Specifies the level.	
		RISE TIME	Specifies the rise time for the twist effect.	
		FALL TIME	Specifies the fall time for the twist effect.	
	ROLL 1/2, 1/4, 1/8	MODE	MOMENT	Normally off (minimum value); on (maximum value) only while pressed.
			TOGGLE	Alternates between off (minimum value) and on (maximum value) at each press.
	FADE	Fades-in/-out the effect sound.		

Parameters Added to SYSTEM

Parameter	Explanation
FEEDBACK LOOP	Allows you to connect an external effect between the OUTPUT A jack and INPUT jack B. You can include an external effect in the delay feedback loop route. Connect your guitar to the INPUT A jack, and connect your amp to the OUTPUT B jack. * If you turn this on, the SYSTEM: BYPASS setting will be fixed to "BUFFERED" (BYPASS setting will not be shown).
LOOP LEVEL	Specifies the volume of the recorded phrase.

Parameters Added to MIDI

Parameter	Explanation
TIME CC	Specifies the delay time.
EFFECT SW	The name has been changed from EFFECT ON/OFF CC.
EFFECT A SW	The name has been changed from A SW CC.
EFFECT B SW	The name has been changed from B SW CC.

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Parameters Added to MIDI BULK DUMP

Parameter	Value	Explanation
FROM	SYSTEM	System parameter settings.
	01A–99C	Settings for Patches.
TO	BANK01–99	Settings for Banks (Patch A–C, BANK parameters).
	TEMP	Current delay settings in the panel display.

Parameters Added to FACTORY RESET

Parameter	Value	Explanation
FROM	SYSTEM	System parameter settings.
	01A–99C	Settings for Patches.
TO	BANK01–99	Settings for Banks (Patch A–C, BANK parameters).