MIDI Parameter Details

Parameter	CC#	Range	Value	Description
Reverb Engine A	1	0-13		Selects and loads reverb engines into A
			0	Room
			1	Hall
			2	E-Dome
			3	True Spring
			4	Plate
			5	Lo-Fi
			6	Modverb
			7	Shimmer
			8	Echoverb
			9	Swell
			10	Offspring
			11	Reverse
			12	Outboard Spring
			13	Metal Box
Time A	2	0-127		Sets min and max delay times
Mix A	3	0-127		Sets the wet/dry mix - 50/50 point at approx. 95
Pre-Delay A	4	0-127		Sets Pre-Delay A
Treble A	5	0-127		Sets Treble A
Output A	6	0-127		Sets Output A
Bass A	7	0-127		Sets Bass A
Diffusion A	8	0-127		Sets Diffusion A
Modulation Depth A	9	0-127		Sets Modulation Depth A
Modulation Rate A	10	0-127		Sets Modulation Rate A
Pre-Delay Feedback A	11	0-127		Sets Pre-Delay Feedback A
Pre-Delay Mod Depth	12	0-127		Sets Pre-Delay Mod Depth
Size A	13	0-max (engine dependent)		Examples: True Spring has 6 sizes, hall has 5, Echoverb has 1
				See Desktop Editor for size option list
Input Low Cut A	14	0-7	0	Offspring
			1	20Hz
			2	100Hz
			3	125Hz
			4	150Hz

				5	200Hz
				6	250Hz
				7	Default Setting
Engine Param 1 A	**15**	0-127	See chart below for details		
Engine Param 2 A	**16**	0-127	See chart below for details		
Engine Param 3 A	**17**	0-127	See chart below for details		
Engine Param 4 A	**18**	0-127	See chart below for details		
Engine Param 5 A	**19**	0-127	See chart below for details		
Engine Special Control A	**20**	0-127	See chart below for details		
Reverb Engine B	**25**	0-13	Selects and loads reverb engines into B		
				0	Romm
				1	Hall
				2	E-Dome
				3	True Spring
				4	Plate
				5	Lo-Fi
				6	Modverb
				7	Shimmer
				8	Echoverb
				9	Swell
				10	Offspring
				11	Reverse
				12	Outboard Spring
				13	Metal Box
Time B	**26**	0-127	Sets min and max delay times		
Mix B	**27**	0-127	Sets the wet/dry mix - 50/50 point at approx. 95		
Pre-Delay B	**28**	0-127	Sets Pre-Delay B		
Treble B	**29**	0-127	Sets Treble B		
Output B	**30**	0-127	Sets Output B		
Bass B	**31**	0-127	Sets Bass B		
Diffusion B	**32**	0-127	Sets Diffusion B		
Modulation Depth B	**33**	0-127	Sets Modulation Depth B		
Modulation Rate B	**34**	0-127	Sets Modulation Rate B		
Pre-Delay Feedback B	**35**	0-127	Sets Pre-Delay Feedback B		
Pre-Delay Mod Depth B	**36**	0-127	Sets Pre-Delay Mod Depth B		

Size B	37	0-max (engine dependent)	Examples: True Spring has 6 sizes, hall has 5, Echoverb has 1	
			See Desktop Editor for size option list	
Input Low Cut B	38	0-7	0	Offspring
			1	20Hz
			2	100Hz
			3	125Hz
			4	150Hz
			5	200Hz
			6	250Hz
			7	Default Setting
Engine Param 1 B	39	0-127	See chart below for details	
Engine Param 2 B	40	0-127	See chart below for details	
Engine Param 3 B	41	0-127	See chart below for details	
Engine Param 4 B	42	0-127	See chart below for details	
Engine Param 5 B	43	0-127	See chart below for details	
Engine Special Control B	44	0-127	See chart below for details	
Dual/Single Mode	50	0-3	0	Selects Reverb A
		(note, no spillover)	1	Selects Reverb B
			2	Selects A&B Parallel
			3	Selects A&B Cascade
I/O Routing Option	53	0-7	0	Auto-detect
			1	Mono in - Stereo Out
			2	Stereo In - Stereo Out
			3	Mono In - Mono Out - Dry out 2
			4	Stereo In - Wet Sum to Mono
			5	Dual Mono - Independent Stereo
			6	Mono In - Independent Stereo Out
			7	Pre-Processing External Loop
Reverb Send	54	0-127	Sets the level being sent into the reverb	
A/B Crossfade	55	0-127	Fade from all A Reverb to all B Reverb (Dual Only)	
Preset Decrement	80	any		
Preset Increment	82	any		
Remote Tap Tempo	93	any	Same as tappng the OPTION footswitch	
Remote Hold Function	97	any	Sustains the reverb trail of the active reverb	
Remote Expression	100	0-127	Overrides all expression inputs	

Bypass/Engage	**101**	0-127	0-64 Bypass, 65-127 - Engage	
Toggle Bypass/Engage	**102**	any		
Recall Preset - Bypass	**103**	0-127	Recalls any preset in Bypass	
Recall Preset - Engage	**104**	0-127	Recalls any preset Engaged	

Engine Specific Parameters: CC values 15 through 20 and 39 through 44 change depending on the selected engine. The table below is a guide to the CC values for each Engine Specific Parameter.

ENGINE	ENGINE PARAM 1	ENGINE PARAM 2	ENGINE PARAM 3	ENGINE PARAM 4	ENGINE PARAM 5	ENGINE SPECIAL CONTROLS
ROOM	Pre-Delay Feedback High Cut	Pre- Delay Feedback Low Cut	Early Reflections Level	Reverb Level	Early/Reverb Crossfade	
HALL-L	Diffusion Modulation Depth					
E-DOME	Pre-Delay Feedback High Cut	Pre- Delay Feedback Low Cut	Early Reflections Level	Reverb Level	Early/Reverb Crossfade	
TRUE SPRING						
PLATE	Metallic Mix	Reverb Level	Early Reflections Level			
LO-FI	Distortion (Drive)	Quantize (0-9 knob mapped)	Sample Rate Reduction	Destruct/Clean Mix	Destruct High Cut	Modulation Noise Depth
MODVERB	Tremolo Depth	Tremolo Rate	Tremolo Shape (0-4 knob mapped)	Termolo Options (0-7 knob mapped	Tremolo Stereo Spread	
SHIMMER	Pitch Shift/Normal Crossfade	Pitch Shift Modulation		Pitch Interval (0-26 no mapping)	Pitch Feedback (Regen)	
ECHOVERB	Pre-Delay Feedback High Cut	Pre- Delay Feedback Low Cut	Early Reflections	Reverb Level	Early/Reverb Crossfade	
SWELL	Envelope Gain	Swell Time	Swell Send Signal	Swell Dry Signal		
OFFSPRING	Master Offset	Master Pre-Delay	Early Reflections	Reverb Level		
REVERSE	Delay Curve Shape (0-5 knob mapped)	Curve Filtering (0-2 knob mapped)				
OUTBOARD SPRING	Drive (Dwell)					
METAL BOX	Pre-Delay Feedback High Cut	Pre- Delay Feedback Low Cut	Early Reflections	Reverb Level	Early/Reverb Crossfade	