

USER MANUAL



Front Panel Controls

VALUE: Provides fine ···· FILTER: Controls the shape of the adjustment of delay repeats filter. dTape: controls tape age time. Push to access the dBucket: controls the special dBucket parameter menu for the current delay machine. filter. See dBucket section for full Hold to access the details. global menu. Filter: controls center frequency of LFO filter. ··· TIME: Provides coarse adjustment of delay time. •• TYPE: Turn to ··· **REPEATS:** Sets the delay select desired feedback level (number of Delay Machine. repeats). Push to toggle the display to ····· MIX: Adjusts the show delay time mix of analog or the current dry signal to wet bank. Hold to delay signal. ИF save current The Mix occurs preset. in analog. Set around 3 o'clock for a 50/50 mix. GRIT: Progressively adds MOD CONTROLS: Speed controls distortion and artifacts. the speed of the delay modulation LFO while Depth controls the intensity of the delay modulation.

dTape: controls tape bias **dBucket:** controls bucket loss

controls wow & flutter.

NOTE: In dTape mode Speed

controls Tape Crinkle and Depth

Front Panel Controls Continued

FOOTSWITCH B: Press to engage or bypass preset B of the current bank. Hold to activate infinite repeats.

Looper Active: Starts playing loop. Restarts loop from beginning if pressed while playing.

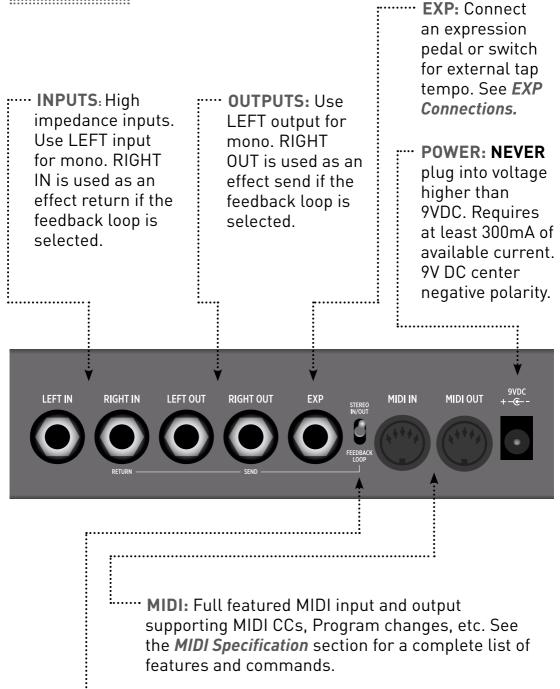


Engage or bypass preset A of the current bank. Hold to activate infinite repeats.

> **Looper Active:** Activates record if there is no loop recorded or clears the loop and starts recording if the looper is stopped. Overdubs if loop is playing.

BANK SELECT: Press A & B to select a lower bank. Press B & TAP to select a higher bank. While the selected bank is pending it is displayed as "B.A.N.K." After the desired bank is selected, press A or B to activate a preset from that bank.

Rear Panel



LOOP SWITCH: Set switch to feedback loop to insert an effect in the delay feedback path. See *Feedback Loop.*

In Depth: Filter & Grit Controls

The Filter knob works in conjunction with the Grit knob to shape the fidelity of the repeats. The brightest and cleanest repeats occur when they are both set at the minimum position. **NOTE:** The below descriptions are for the Digital, Dual, Pattern, Reverse, Ice, Duck, Swell, Trem & Lo-Fi delay machines. To see how the Filter & Grit knobs work for dBucket and dTape delay machines see their respective sections.



FILTER: At minimum setting, the Filter Function provides a flat full-bandwidth response. As you turn the knob up, the repeats get progressively darker. Around 12:00, the filter is voiced to give an analog delay EQ curve. The darkest repeats occur with the Filter knob between 12:00 and 2:00 in these machine types. As you continue to turn the Filter Knob, the low end is progressively reduced, and some highs are added back in to create an EQ curve similar to that of a Tape delay when the knob is at maximum position.

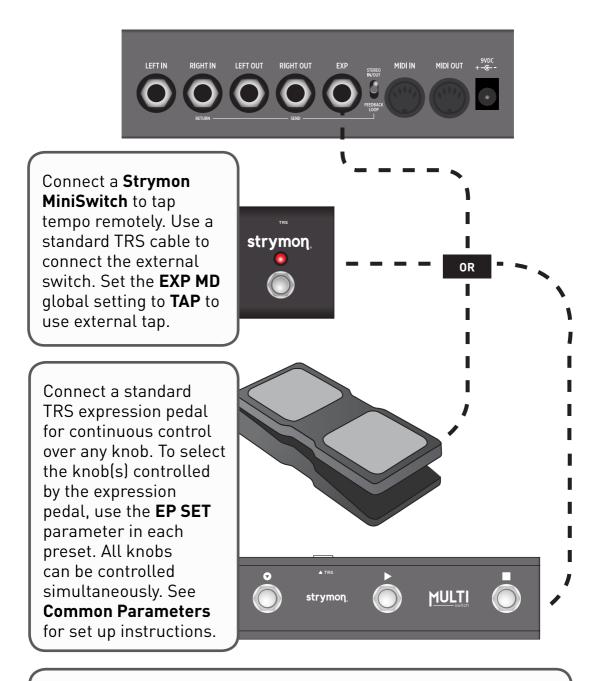


GRIT: The intensity of the Grit control will depend on the strength of the input signal. Hotter inputs will intensify the effect of the Grit knob in all modes. The volume of the wet signal may change as you increase the Grit control (getting louder or softer depending on the input signal strength). Use the MIX knob to compensate accordingly.

Delay Time Ranges & Display

TYPE push the TYPE encoder	to toggle the display between BANK & TIME	TIME can be displayed in milliseconds or BPM based on the MS/BPM global parameter				
5	Digital, Dual, Pattern, Reverse,					
Lo-Fi dBucket (RANGE = SING dBucket (RANGE = DOU dTape (TAPE SPEED = N dTape (TAPE SPEED = F	BLE) ORMAL)	2 mS - 2500mS 40mS - 400mS 80mS - 800mS 60mS - 2500mS 30mS - 1250mS				

EXP Connections



Connect a Strymon MultiSwitch for external bank selection, preset selection, or extended control of TimeLine's built-in looper. Set the **EXP MD** global setting to either TAP, BANK, PRESET, or LOOPER.

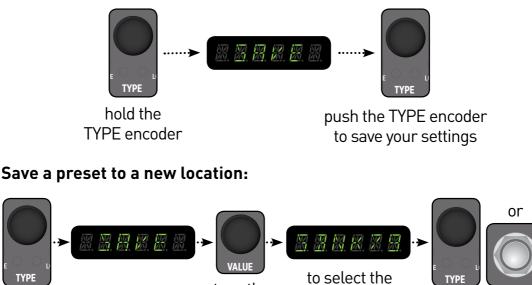
Please refer to the MultiSwitch user manual for detailed setup information: www.strymon.net/support/multiswitch

Banks and Presets

TimeLine has 100 banks with A & B presets in each bank. Banks are numbered 0 to 99 on the display. The factory presets in banks 0-49 are duplicated in banks 50-99.

Saving Presets

Save a preset to the current location:



hold the TYPE encoder VALUE turn the VALUE encoder

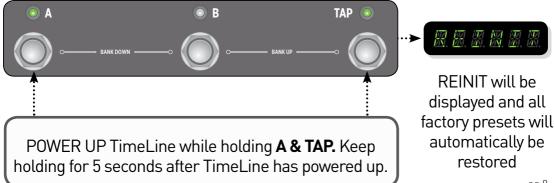
push the TYPE encoder or the A or B footswitch to save your settings

To cancel an in-progress save press the TAP footswitch.

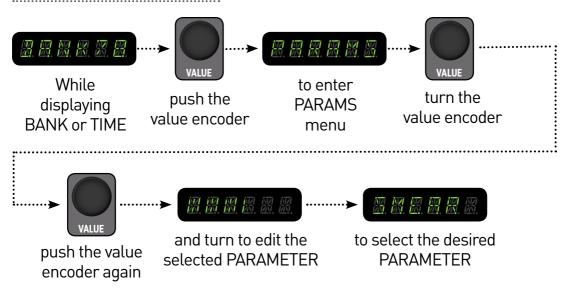
bank to save to

Restoring Factory Presets

CAUTION: This procedure will erase any custom presets saved in the TimeLine and restore them to factory



Editing Parameters





All Delay Machines share a set of parameters. These parameters are saved with each preset and include:

	Selects the subdivision to use for delay repeats when tapping in a tempo. Tap division options include: Quarter notes (default), Dotted Eighth notes, Eighth notes, Triplets, Sixteenth notes. NOTE: If TAPDIV is set to anything other than Quarter notes, the TAP LED will blink in amber.
BOOST: 8 8 8 8 8 8 8	+/- 3dB of boost/cut. This can be useful for level matching in your effects chain, or can be used as an effect such as boosting a solo with delay.
PERSIST:	Turns on delay persist "trails" which will spill over when the effect is bypassed. Use this if it is desired for delay repeats to continue after the effect has been bypassed. Note that if persist is set to ON, the bypass mode will automatically be analog bypass.

Delay Machines: Common Parameters Continued

NAME:

Allows editing the 16 character name of the current preset. Use the VALUE encoder to change the selected character. Use the TYPE encoder to select a character. Exit by pressing the VALUE encoder, then press and hold the TYPE encoder to SAVE the name permanently. **NOTE:** For the preset name to be displayed the NAMES global must be set to ON or SCROLL.

EXPRESSION PEDAL ON/OFF: Enables or disables the expression pedal input for each preset.

EXPRESSION PEDAL SET: Enters the expression pedal setup for each preset. All knobs can be configured to be used with the expression pedal. To set up which knobs are controlled by the expression pedal, push the Value encoder when it displays "EP SET" and it will then display "HEEL". Turn the knob(s) to the position desired at heel down on the expression pedal. Then, turn the Value encoder right to display"TOE" and set the knobs to their desired values at the toe down position on the expression pedal. An expression pedal can control all of the knobs simultaneously.

TAP MODE:Adjusts how the last tapped tempo affects preset
changes. Set to PRESET so the delay time will change
to the saved value in the preset. Set to GLOBAL so
the delay time will remain at the last tapped tempo
regardless of what tempo is saved in the preset.

MIDI CLOCK ON/OFF: When set to ON, TimeLine will respond

to external MIDI clock from the MIDI input. This parameter is saved independently so that only presets with this parameter set to ON will respond to MIDI clock.

Delay Machines: Digital

DIGITAL 🔵

A classic crystal-clear "voiced" digital delay. A wide range of delay tones are possible by tweaking the Filter, Grit and Modulation controls. Modern to classic 80's delay tones are easily achievable with this delay machine.

PARAMETERS:

~	Μ	-	A		
5	N	F /	Δ	ĸ	
-				•	



Softens the attack of the repeats while maintaining full frequency response. This allows for higher mix levels while keeping the delay out of the way of the dry signal. With high Repeats levels, the delayed signal gets dreamy and ethereal.

HIGH PASS:

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Reduces the low frequency content of the wet signal after the delay. A useful additional tone sculptor for delays on low-note riffs or chords where you want to reduce booming in your rig.

		1	1
<u> </u>	- 120Hz	230Hz	500Hz
40Hz	140Hz	260Hz	600Hz
60Hz	160Hz	300Hz	700Hz
80Hz	180Hz	350Hz	800Hz
<u> </u>	200Hz	400Hz	900Hz

REPEAT DYNAMICS: Reduces the Repeats in a non-linear fashion so

R	R				M
		_ C)Fl	F	
C		- C)N		

that the delay tapers off faster than it normally would. The effect is most easily heard with high Repeats levels, allowing for high repeats that trail off to allow the next phrase or chord to stand out more.

TIPS & TRICKS: The HIPASS parameter can be very effective in producing bright repeats for a 'super-clean' digital delay. Set the Filter and GRIT knobs to minimum position for full bandwidth and experiment.

Set GRIT and FILTER knobs to 12:00 for an "analog-voiced" digital delay, or try GRIT at minimum and FILTER at maximum for a "tape-voiced" digital delay.

Delay Machines: Dual



Adjusts the delay time of Delay 2 relative to Delay

Two independent delay lines that can be run in series or parallel. The second delay tracks the first at selectable time ratios. This is very useful for creating interesting rhythmic delays that feed into each other or act independently in parallel.

PARAMETERS:

TIME 2:	
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	, (a) a			2010, 210		
<u></u>	ALZ	•		-	, it adjusts with o to keep the sa	me
	ratio	o, and allov	vs for cool	rhythmic e	effects.	
1/8						
- 1/7	2/5	5/6	3/2	7/2	8/1	
- 1/6	<u> </u>	└── 7/8	5/3	<u> </u>		
<u> </u>	<u> </u>	<u> </u>	<u> </u>	5/1		
<u> </u>	- 3/4	<u> </u>	5/2	6/1		
<u> </u>	4/5	<u> </u>	<u> </u>	— 7/1		

REPEATS 2:



Adjusts the repeats level of Delay 2. Set to TRACK to follow Delay 1 Repeats knob. When not set to TRACK, you can set an independent repeat level for delay 2. In this case changing the Repeats knob will only affect the repeats level for Delay 1.

MIX 2:



Adjusts the mix level of Delay 2. Set to TRACK to follow Delay 1 Mix, set by the Mix knob. When not set to TRACK, you can set an independent mix level for delay 2. In this case changing the Mix knob will only affect the mix level for Delay 1.

Delay Machines: Dual Continued

HIGH PASS:	after the delays of	delay. A use	uency content of the wet signal ful additional tone sculptor for ffs or chords where you want to our rig.
20Hz	- 120Hz	230Hz	500Hz
40Hz		260Hz	600Hz
60Hz	160Hz	300Hz	700Hz
80Hz	180Hz	350Hz	800Hz
<u> </u>	<u> </u>	400Hz	900Hz

CONFIGURATION: Select from a series or parallel dual delay setup. In series, Delay 1 feeds Delay 2, just as if you had two independent stereo delays connected on your pedalboard. In parallel configuration, the input signal goes to Delay 1 and Delay 2 simultaneously, and the output of the two delays are fed to the Left and Right channels respectively (or summed to the Left channel in Mono operation).

TIPS & TRICKS: Set the CONFIG param to PARALLEL to get independent Right and Left channel delay lines (the two parallel delays will be summed to mono in mono operation - very useful for rhythmic delays). This also allows for a 'wet - dry' stereo setup as follows:

CONFIG param to PARALLEL ::: Turn the MIX knob to minimum (dry) ::: Set RPT2 param to TRACK ::: Set TIME2 param to 1:1 ::: Set MIX2 param to set the level of the delays.

Now the knobs on the machine will control Delay2 (Right channel), while Delay1 (Left channel) is dry only (since MIX knob is minimum). The repeats will only be heard from the Right channel.

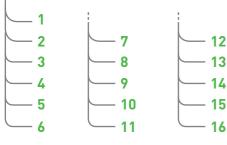
Delay Machines: Pattern

PATTERN 🌑

A delay with selectable repeat patterns that provide a wide range of sounds. Rhythmic, Ambient delays are easily achievable.

PARAMETERS:

PATTERN:From simple ping-pong to rhythmic trances, the
patterns can inspire new musical ideas. The patterns
will create a stereo field of delay taps when using both
the L and R outputs, but will sum to the mono output
when the R output jack is unplugged.



SMEAR:



Softens the attack of the repeats while maintaining full frequency response. This allows for higher mix levels while keeping the delay out of the way of the dry signal. With high Repeats levels, the delayed signal gets dreamy and ethereal.

HIGH PASS:

Reduces the low frequency content of the wet signal after the delay. A useful additional tone sculptor for delays on low-note riffs or chords where you want to reduce booming in your rig.

└── OFF			
└── 20Hz	- 120Hz	<u> </u>	500Hz
40Hz		260Hz	600Hz
60Hz	160Hz	300Hz	700Hz
80Hz		350Hz	800Hz
<u> </u>	200Hz	400Hz	900Hz

Delay Machines: Pattern Continued

TIPS & TRICKS: The more intricate patterns can be most effective when the input is simple or 'sparse'.

Pattern 16 is a sort of 'early reflection' pattern. Experiment with delay times around 200mS, lots of Repeats and the SMEAR param at maximum to create reverb-like sounds. Add some MOD DEPTH at lower MOD SPEED and play with the Filter and Grit knobs and HIPASS param to dial in the 'reverb' tone.

Delay Machines: Reverse



An improvement on the classic reverse delay. The input signal triggers the delay so the reverse signal is always predictable, musical and repeatable.

PARAMETERS:

SMEAR:



Softens the attack of the repeats while maintaining full frequency response. This allows for higher mix levels while keeping the delay out of the way of the dry signal. With high Repeats levels, the delayed signal gets dreamy and ethereal.

HIGH PASS:

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Reduces the low frequency content of the wet signal after the delay. A useful additional tone sculptor for delays on low-note riffs or chords where you want to reduce booming in your rig.

	i		i i
20Hz	- 120Hz	230Hz	500Hz
40Hz	140Hz	260Hz	600Hz
60Hz	160Hz	300Hz	700Hz
80Hz	180Hz	350Hz	800Hz
100Hz	<u> </u>	400Hz	900Hz

TIPS & TRICKS: Try setting the TIME knob to around 500mS, and hold a ringing chord for an interesting rhythmic effect. Experiment with the FILTER, GRIT and MOD knobs.

To keep your dry signal feeding into the reverse delay while effectively bypassed, assign an expression to control the MIX knob. Assign the HEEL position to the MIX knob at minimum. Assign the TOE position to the desired wet mix on the MIX knob. Rock the expression pedal all the way back to bypass the delay. Rock the pedal to the TOE position to hear reverse repeats that have already been generating while the mix was at full dry.

Delay Machines: Ice



A delay that slices up the input signal and plays back the pieces at selectable intervals. The playback interval can be varied from -1 octave to +2 octaves. The slice size can also be varied, changing the size of the audio chunks being played back.

PARAMETERS:

INTERVAL:	Selects the pitch interval of the audio slices from a octave down to two octaves up.				
<u>8. 8. 8. 8. 8. 8.</u>					
-Octave	i i				
-Major 7th	-minor 3rd	+Major 2nd	+minor 7th		
-minor 7th	-Major 2nd	+minor 3rd			
-Major 6th	-minor 2nd		+Octave		
-minor 6th	-50 cents	+Perfect 4th	+Octave & 5th		
-Perfect 5th	n 🖵 -25 cents	+Tritone	+2 Octaves		
-Tritone	+25 cents	+Perfect 5th			
-Perfect 4th	n 🖵 +50 cents	+minor 6th			
– -Major 3rd	+minor 2nd	- +Major 6th			

SLICE:

SHORT - MEDIUM - LONG

Selects the size of the audio chunks that get sliced and pitched. The slice sizes scale with the delay time.

BLEND:



Blends between the Dry and Ice signal on the delay line, Huge sounds can be obtained when keeping this control below half-way, and setting the Repeats knob around 3 o'clock.

SMEAR:



Softens the attack of the repeats while maintaining full frequency response. This allows for higher mix levels while keeping the delay out of the way of the dry signal. With high Repeats levels, the delayed signal gets dreamy and ethereal.

Delay Machines: Ice Continued

HIGH PASS:			iency content of ul additional ton	•
8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8				
20Hz	- 120Hz	230Hz	500Hz	
40Hz		260Hz	600Hz	
60Hz	160Hz	300Hz	700Hz	
80Hz	180Hz	350Hz	800Hz	
└── 100Hz	<u> </u>	400Hz	900Hz	

TIPS & TRICKS: The BLEND param settings nearer the Dry side can result in very deep and atmospheric delays with the Repeats knob set for many repeats. The ICE signal appears to 'float in' as the repeats regenerate. The MOD knobs can add much dimension to these sounds as well.

Delay Machines: Duck



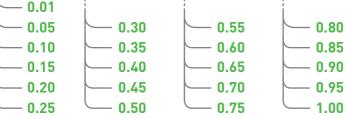
A dynamic delay that reacts to your playing with adjustable sensitivity and release time. As the sensitivity is increased, the ducking effect becomes more pronounced.

PARAMETERS:

SENSITIVITY:

Adjusts the input sensitivity for the ducking feature. Turn to higher settings for more extreme ducking. A low level guitar signal will require higher settings to achieve the same ducking effect as a high level guitar signal. At low settings, subtle ducking effects can be achieved.

RELEASE TIME: Sets the release time for the ducking effect. This determines how quickly the delay signal returns to full level once you stop playing. A fast Release with extreme ducking can create a dramatic special effect, while slower releases with moderate ducking can be transparent yet effective.



DUCKING FEEDBACK: Sets the feedback ducking parameter. When



on, the Repeats knob is effectively set to minimum while you are playing, and then quickly returns to the Knob setting when you stop playing. Very cool for single line playing with extreme ducking, you can play a 'dry' solo, and only the last note played will repeat.

Delay Machines: Duck Continued

HIGH PASS:			ency content of the wet signal
8. 8. 8. 8. 8. 8. 8.	delays on	-	ul additional tone sculptor for fs or chords where you want to ır rig.
OFF			
20Hz	- 120Hz	230Hz	500Hz
40Hz	140Hz	260Hz	600Hz
60Hz	└── 160Hz	300Hz	700Hz
80Hz	180Hz	350Hz	800Hz
└── 100Hz	<u> </u>	400Hz	900Hz

TIPS & TRICKS: With very slight amounts of ducking, the dynamics of the delay are more 'felt' than 'heard'. Set the SENS parameter to just ever-so-slightly reduce the delay volume when you play (most easily discovered with high REPEATS and MIX settings, and RELEASE around 0.30). Then reduce the RELEASE param to 0.01, while keeping the FEEDBK param at NORMAL. Now set the MIX and REPEATS to your liking. The results can be addicting.

Delay Machines: Swell



A variable attack time delay that can swell into notes or chords. This can create atmosphere and ambience in a subtle and stealthy manner.

PARAMETERS:

RISE TIME:					ut to the delay. seconds. Try
R. R. R. R. R. R	setting	the ramp		out the sam	ne value as the
0.10					
0.15	0.50	<u> </u>	- 1.50	2.00	3.00
0.20	0.60	- 1.10	- 1.60	2.20	4.00
0.25	0.70	<u> </u>	- 1.70	2.40	
0.30	0.80	- 1.30	- 1.80	2.60	
0.40	0.90	<u> </u>	<u> </u>	2.80	

SMEAR:



Softens the attack of the repeats while maintaining full frequency response. This allows for higher mix levels while keeping the delay out of the way of the dry signal. With high Repeats levels, the delayed signal gets dreamy and ethereal.

HIGH PASS:

Reduces the low frequency content of the wet signal after the delay. A useful additional tone sculptor for delays on low-note riffs or chords where you want to reduce booming in your rig.

	└── 0FF			
	20Hz	- 120Hz	230Hz	500Hz
	40Hz		260Hz	600Hz
	60Hz	160Hz	300Hz	700Hz
	80Hz		350Hz	800Hz
1	100Hz	200Hz	400Hz	900Hz

TIPS & TRICKS: Set the RISE param to match the delay time for natural swell-meets-delay effects. Turn the MIX fully CW for volume-pedal swell effects.

Delay Machines: Trem



A delay with synchronized tremolo affecting the repeats. Selectable LFOs are provided for the tremolo waveshape.

PARAMETERS:

LFO (LOW FREQUENCY OSCILLATOR): Selects from a variety of LFO waveforms to control the trem envelope of the delayed signal. For a choppy trem delay, choose the SQUARE lfo, or for smoother sounds try the SINE waveform. A fast lfo speed with a SAW wave can create a mandolinlike plectrum effect.



- SAW

SPEED:

x x x x x x

Controls the speed of the trem waveform in relationship to the Delay Time. When the delay time is changed by adjusting the Delay TIME knob or with the TAP footswitch, the lfo will track the change in delay time to stay in sync.

<u> </u>					
1/24	1/9 1/4	<u> </u>	7/2	8/1	18/1
<u> </u>	1/8 - 1/3	<u> </u>	<u> </u>	9/1	<u> </u>
<u> </u>	1/7 1/2	<u> </u>	5/1	- 10/1	<u> </u>
	1/6 2/3				
<u> </u>	1/5 - 3/4	<u> </u>	— 7/1	<u> </u>	

DEPTH:

Selects the depth of the LFO waveform, with maximum setting resulting in no delay volume when the lfo waveform is at it's lowest point.



Delay Machines: Trem Continued

HIGH PASS:			uency content of the wet signa ful additional tone sculptor for	
8, 8, 8, 8, 8, 8, 8, 	delays or		fs or chords where you want t	
20Hz	- 120Hz	230Hz	500Hz	
40Hz	140Hz	260Hz	600Hz	
60Hz	160Hz	300Hz	700Hz	
└── 80Hz	180Hz	350Hz	800Hz	
- 100Hz	<u> </u>	400Hz	900Hz	

TIPS & TRICKS: The SAW mode at higher LFO SPEED (3:1, 4:1, etc) will create a high-impact 'plectrum' effect. RAMP mode at lower lfo SPEED can create an interesting reverse envelope. Try SQUARE and SINE at higher LFO SPEED for a traditionally-inspired new sound. Experiment with the MIX control in conjunction with the DEPTH parameter to dial in the intensity.

Delay Machines: Filter



A delay with synchronized sweeping filter affecting the repeats. The filter can be placed pre or post delay.

PARAMETERS:

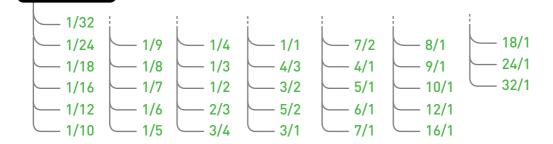
LFO (LOW FREQUENCY OSCILLATOR): Selects from a variety of LFO

<u>R. R. R.</u> R. R. R.	signal. Choose a treatments. Cho	ontrol the filter envelope of the delayed a sine at slow speed for atmospheric bose a random LFO at higher speeds for a futuristic sound.
+Triangle -Triangle -Square +Square +Sine	-Sine Ramp Saw	Down Up

SPEED:

R R R R

Selects the ratio at which the LFO tracks the delay time.



DEPTH:



Selects the depth or intensity of the filter sweep. Use in conjunction with the Filter knob, which sets the mid-point of the sweep, to get the precise range you desire.

Delay Machines: Filter Continued

FILTER Q:

x x x x x x

Adjusts the Q, or resonance, of the sweeping filter. Lower values produce milder filtering effects with a broader response and lower resonance. Higher values create sharper resonant peaks which can lend to dramatic sweeping and special effects.

- 0.5		i			
- 0.7	- 1.2	2.0	3.0	5.0	
- 1.0		2.5	<u> </u>	7.0	

LOCATION: This parameter places the LFO-controlled filter either before the delay line (PRE) or after the delay line (POST). The sonic differences between the two can be substantial, with POST creating a more prominent effect. PRE

HIGH PASS:

- POST

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Reduces the low frequency content of the wet signal after the delay. A useful additional tone sculptor for delays on low-note riffs or chords where you want to reduce booming in your rig.

└── 0FF			
20Hz	- 120Hz	230Hz	500Hz
40Hz	- 140Hz	260Hz	600Hz
60Hz	160Hz		700Hz
80Hz	180Hz	350Hz	800Hz
100Hz	200Hz	└── 400Hz	900Hz

TIPS & TRICKS: 1) The '+' or '-' in front of the SINE, TRI and SQR lfo shapes designates the polarity of the LFO when it sync to your playing. The '+' LFO shapes will have the highest frequency occur synchronous to the input, while the '-' LFOs will have their lowest frequencies synchronous to the input.

2) The FILT-Q parameter sets the resonance or sharpness of the filter. At higher settings, the increase in amplitude at the filter's resonant frequency can result in an increase in apparent wet signal volume. Use the MIX knob to adjust the wet level accordingly.

Delay Machines: Lo-Fi



Allows creative destruction of your delay signal. Add filtering, vinyl noise, low bit rate distortion, sample rate aliasing, etc.

PARAMETERS:

SAMPLE RATE: Selects the sample rate of the delay line, from 96 KHz all the way down to 750Hz. As the sample rate is reduced, aliasing artifacts wreak havoc on the repeats.

750Hz		1	1
– 1 kHz	5 kHz		- 19 kHz
1.5 kHz	6 kHz	11 kHz	24 kHz
2 kHz	- 7 kHz	12 kHz	
🖵 3 kHz	8 kHz	14 kHz	48 kHz
└── 4 kHz	9 kHz	└── 16 kHz	96 kHz

BIT DEPTH:

Reduces the digital bit depth from 32 bits down to 4 bits. Fuzzy crunchy artifacts are introduced as the bit depth is reduced.

7 Bit	- 11 Bit	
7.5 Bit	12 Bit	- 18 Bit
8 Bit	13 Bit	20 Bit
9 Bit	14 Bit	24 Bit
— 10 Bit	— 15 Bit	🖵 32 Bit
		7.5 Bit 12 Bit 8 Bit 13 Bit 9 Bit 14 Bit

MIX:

Mixes the lo-fi (bit and sample-rate dependent) signal with the full resolution signal. Heinously corrupted audio can sit on top of the full resolution signal, or go full lo-fi mix for just the crud.

VINYL:

Our exclusive dVinyl technology introduces random vinyl dust noise and scratches from a 33 1/3 rpm record. The first half of the control (dynamic) adds vinyl noise that only occurs with the repeats, while the 2nd half of the control (static) adds full-time vinyl noise for song intros, outros or bridges.

(dynamic)

S ||||| (static)

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Delay Machines: Lo-Fi Continued

victrolas, am r R R R R R The mixed lofi	of filters inspired by telephones, adios, bull horns, and other gadgets. and full-resolution signal (along with se) goes through the selected filter.
OFF 1 (Portable Vintage Amp) 2 (Victrola Phonograph) 3 (70s Clock Radio) 4 (Bullhorn Megaphone)	5 (Cheerleader's Plastic Megaphone) 6 (Antique Telephone Ear Piece) 7 (Cell Phone) 8 (Apartment Intercom)

TIPS & TRICKS: With a minimum delay time of 2ms, you can set the MIX to full wet (fully CW) and get a real-time lofi machine with bitcrush, sample-rate and filtering possibilities. All knobs and PARAMS are still active. Additionally, you can create modulation effects like chorus, flange and vibrato by using the MOD SPEED and MOD DEPTH knobs to modulate the delay line. For modern digital mod effects, set the SAMPLE rate to 96kHz and BITS to 32 and turn the FILTER param to OFF. Experiment with the Filter and Grit knobs and the Lo-Fi Params to go from pristine to vintage to garbage can.

Delay Machines: dTape

dtape

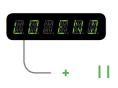
An intricate re-creation of a sliding head tape delay system.

PARAMETERS:



Choose Fast speed for a higher fidelity experience or Normal for standard tape machine operation. The Wow/Flutter (Mod Depth knob) and Tape Crinkle (Mod Speed knob) track the tape speed for a huge range of tape machine experiences.

LOW END CONTOUR: Allows for shaping the low-end from full low-



end to extreme progressive high-passing. With high repeats, this control is a major factor in the overall tape machine sound.

KNOB FUNCTIONS In dTape, four of the knobs assume different controls than the other delay machines.



TAPE AGE: In dTape, the filter knob takes on the function of TAPE AGE. This controls the bandwidth of the tape just as it would change over time in a traditional tape delay machine. As regular tapes wear out, their bandwidth becomes limited. The TAPE AGE control recreates this. Set to minimum for a fresh, full bandwidth tape. As the knob is turns clockwise, the tape will get progressively darker.



TAPE BIAS: In dTape, the GRIT knob takes on the function of TAPE BIAS. This control adjusts tape machine bias, from under-biased to over-biased. Bias sets the dynamic range and headroom of the delay signal. Higher bias levels result in reduced echo volume and limited headroom. Lower bias settings result in the cleanest echoes with the most headroom. For an optimally biased tape machine set to 9:00. For an under biased tape machine with extra high frequency response set to minimum.

Delay Machines: dTape Continued



TAPE CRINKLE: In dTape, the SPEED knob takes on the function of TAPE CRINKLE. This control adjusts the amount and severity of tape irregularities, including friction, creases, splices and contaminants. Tape Crinkle characteristics track accordingly to tape speed. Set to minimum for a fresh, clean tape. Set to maximum for a tape that has been mangled and chewed for years.



WOW & FLUTTER: In dTape, the DEPTH knob takes on the function of WOW & FLUTTER. This control varies the amount of mechanically related tape speed fluctuations. This also results in natural tape machine style modulation. Turn the knob fully counter clockwise for a perfectly tuned, cleaned and serviced tape machine. Turn the knob fully clockwise to hear the sound of a tape machine in need of service. In between the extreme settings, a natural tape modulation is achieved.

TIPS & TRICKS: 1) The mechanical effects of wow/flutter and tape crinkle will track to the Tape Speed parameter. Select FAST for higher fidelity, including wider playback head frequency response. Select NORMAL for a warmer tape sound. High SPEED and DEPTH knob settings (tape crinkle and wow/flutter) with NORMAL Tape Speed will produce the characteristics of an old un-serviced tape machine.

2) Reduce the Repeats knob if necessary when using minimum bias to tame the regenerative high frequencies.

Delay Machines: dBucket



An fully nuanced re-creation of classic analog bucket brigade delay systems.

PARAMETERS:

RANGE:



Varies the amount of bucket brigade circuits that the delayed signal travels through. Single is essentially one 4096 stage bucket brigade "chip" while Double is equivalent to two 4096 stage bucket brigade "chips" in series.

KNOB FUNCTIONS In dBucket, two of the knobs assume different controls than the other delay machines.



FILTER: In dBucket, the filter control makes the repeats either darker or brighter depending on preference. 12:00 is a neutral filter setting. Turning the filter clockwise makes the repeats darker and they will get progressively darker with each repeat. Increasing the bucket loss will darken the repeats even further. Turning the filter counterclockwise makes the repeats brighter by applying a 'post' high shelf EQ to the wet signal.

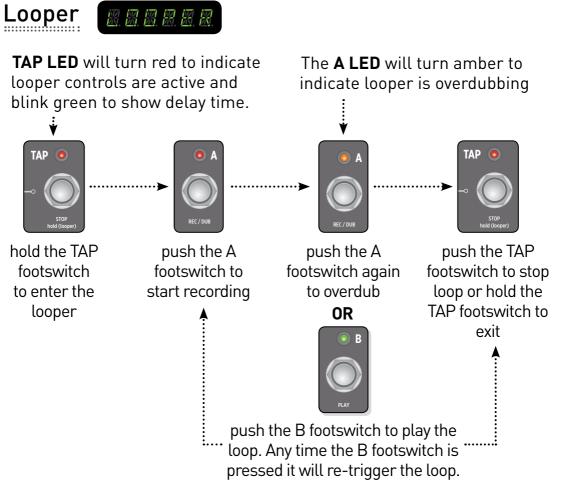


BUCKET LOSS: In dBucket, the GRIT knob takes the function of BUCKET LOSS. This controls the amount of bucket brigade "chip" loss at each stage in the dBucket algorithm, from no loss at minimum, to full noisy loss at maximum. Set to 3:00 to get maximum distortion loss with just a hint of noise. Increasing from 3:00 adds more noisy loss.

Delay Machines: dBucket Continued

TIPS & TRICKS: 1) The RANGE parameter selects a 'one-chip' dBucket delay, or a 'two-chip' dBucket delay. The one-chip delay has half the delay range (SINGLE - 400mS) as the two-chip delay (DOUBLE - 800mS), and experiences clock-related artifacts at half the delay time as the two-chip delay. For cleaner delays of 300ms to 400ms, use DOUBLE with lower GRIT settings. For the warm, fuzzy, lofi sound of the ealiest analog delays, use the single option with lots of GRIT and set the Filter between 12:00 and 5:00 to taste.

2) A classic analog delay sound is one with a bright first repeat and darker subsequent repeats. To dial this in, set the FILTER knob at minimum and the GRIT (bucket loss) at 12:00. Set the delay time. The bucket loss will reduce the bandwidth and fidelity of the repeats progressively with minimum coloration from the FILTER.



NOTE: The loop can be played in the background if desired. Normally the loop will stop when exiting the looper. To keep playing the loop when exiting looper set the Looper Exit global to PLAY. The looper can also be controlled via MIDI at all times.



LOOPER GLOBALS: There are controls to vary the loop level, looper exit behavior and looper pre or post configuration in the GLOBALS menu. Please consult the globals section of the manual for more information.

LOOPER MIDI CONTROL: Controlling the looper via MIDI is accomplished by sending MIDI note numbers with a velocity greater than zero OR MIDI CCs. Record, Play, Stop, Reverse, Half Speed, Undo (to initial recorded loo) and Redo can all be controlled via MIDI. See the MIDI specification for the note numbers and CCs.

TIPS & TRICKS: Connect an external MIDI control to access additional looper features like **Reverse, Half Speed, Undo** (to initial recorded loop) and **Redo**.

Globals Menu



Global parameters affect TimeLine regardless of what preset is currently active.

TIME DISPLAY: Configures the display to show delay time in Milliseconds or Beats Per Minute.



LOOPER LOCATION: Switches the Looper to be Pre or Post delay.



LOOPER LEVEL: Sets the volume level of the looper playback.



LOOPER EXIT: Determines if the looper stops when exiting or keeps playing in the background.

PLAY STOP

BYPASS SET-UP: Changes the bypass mode between True Bypass and Buffered Bypass. In True Bypass, electromechanical relays are used to bypass TimeLine so that no components are touching the input signal. In Buffered Bypass the bypassed signal runs through a high quality analog buffer.

TRUE BYPASS BUFFERED BYPASS

MIDI CHANNEL: Sets the MIDI Channel. Can be set to 1 - 16.

CONTROLLERS: Turns MIDI CC messaging tinuous controllers) ON or OFF.
ON OFF

Globals Menu Continued

MIDI PATCH CHANGE: Turns MIDI patch change messaging ON or OFF



— ON — OFF

MIDI THROUGH: When set to THRU, MIDI messages that arrive at the MIDI input are sent to the MIDI output without ANY additional MIDI messages generated by TimeLine. When set to MERGE, MIDI messages that arrive at the input and those that are generated by TimeLine are merged together to be sent to the MIDI output. When set to OFF, only MIDI messages generated by the controls on TimeLine are sent to the MIDI output.

BANK SCROLL: Sets the maximum bank number to scroll to.

B B B B B B B B BNK 1-99

EXP INPUT MODE: Configures the EXP input to use an Expression Pedal or an external TAP footswitch. - PEDAL -for use with Expression Pedal - TAP -for use with external TAP footswitch, or MultiSwitch for tap and preset select - BANK -for use with MultiSwitch to select preset banks - PRESET -for use with MultiSwitch to select presets - LOOPER -for use with MultiSwitch to control Looper functions Please refer to the MultiSwitch user manual for detailed MultiSwitch setup information: www.strymon.net/support/multiswitch Turns the dry signal on or off. This is sometimes **DRY SIGNAL:** useful in a parallel effects loop when an effect level is x x x x x x necessary. - NORMAL KILL - dry signal is muted allowing the MIX control to be used as an effect level

Globals Menu Continued

SPILLOVER:



Allows the wet delay signal of a currently selected preset to "spill" into the next selected preset. **IMPORTANT:** Because of the delay buffer architecture, the current preset must be active for at least 5 seconds before spillover will be operational.

PRESET NAMES: Enables or disables the display of preset names

<u>R. R. R. R. R.</u>		when displaying the current bank. If set to UN or SCROLL, when incrementing through banks with the VALUE encoder, the bank number will be displayed with 2 digits followed by the first 3 characters of the preset name.
	OFF	 bank numbers are displayed instead of preset names the first 6 characters of the preset name are displayed

SCROLL - the preset name will scroll once completely through its 16 characters then settle on the first 6 characters

PRESET DUMP: Allows presets to be sent via MIDI to another TimeLine

<u>8. 8.</u> 8.	
	EXIT
	ALL
\subseteq	PR 0A -

99C

or to a MIDI recorder device. Presets can be dumped individually or all at one time. Select ALL to dump all presets, or scroll to select an individual preset to send. Initiate send by pressing VALUE encoder.

MIDI CLOCK SWEEP: Allows the option to keep or remove delay pitch artifacts when changing TAP tempo from an external

MIDI clock source.



Globals Menu Continued

MIDI CLOCK RESET: Allows the option to re-sync delay time back to an external MIDI clock source tempo after tapping in a new tempo or sweeping the time knob on TimeLine.



MIDI SEND STATE: When a preset is loaded, the MIDI state (CC values) of active preset MIDI parameters are sent to the MIDI output.



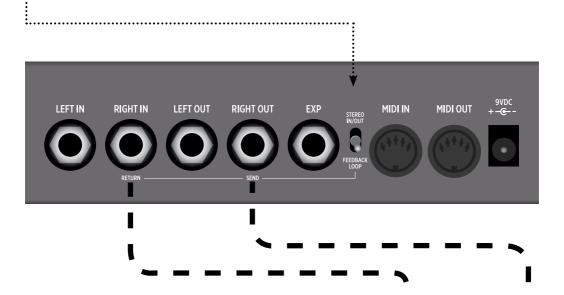
NOTE: If any of the above options do not appear in the GLOBLS menu, you may need to update the firmware to the latest version. Visit this link for instructions: **www.strymon.net/update**

Feedback Loop

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...... Set the FEEDBACK LOOP switch to the down position to insert an external effect into the delay feedback path.

NOTE: If not using an external effect in the feedback loop, set switch to stereo.



Connect an external effect to the feedback loop. Any external effect can be used. Feel free to experiment with the different sounds that can be achieved. All of the delay repeats will be processed through the external effect.



MIDI Specification

KNOBS: CC# Value Range Type encoder 19 0-11 Time 3 0-127 Repeats 9 0-127 Mix 14 0-127 Filter 15 0-127 Grit 16 0-127 Speed 17 0-127 Depth 18 0-127 **PARAMETERS:** 21 **Tap Division** 0-4 23 0-60 Boost Persist Off/On 22 0-1 38 Smear 0 - 18**High Pass** 47 0-20 Expression Off/On 60 0-1 MIDI Clock Off/On 63 0-1 dTAPE - Tape Speed 58 0-1 dTAPE - Low End 0-20 59 dBUCKET - Range 45 0-1 **DIGITAL - Repeat Dynamics** 56 0-1 DUAL - Time 2 32 0-26 DUAL - Repeats 2 34 0 - 18DUAL - Mix 2 33 0 - 18DUAL - Config 36 0-1 PATTERN - Pattern 39 0 - 15SWELL - Rise Time 44 0 - 27TREM - Speed 61 0-34 57 TREM - Depth 0 - 18TREM - LFO 29 0-4 FILTER - Q 40 0-11 FILTER - LFO 28 0-10 FILTER - Depth 41 0 - 18FILTER - Speed 42 0 - 34**FILTER - Location** 43 0-1 51 LO-Fi - Mix 0-20 LO-Fi - Vinyl 52 0 - 18LO-Fi - Sample Rate 49 0-20 LO-Fi - Bit Depth 50 0-20 LO-Fi - Filter 53 0-8 0-29 ICE - Interval 30

MIDI Specification Continued

ICE - Blend250-20DUCK - Sensitivity370-17DUCK - Release550-20DUCK - Feedback540-1	
LOOPER: CC# Value R	
Record CC# Value R	any
Play 86 any	
Stop 85 any	
Reverse (toggle) 94 any	
Full/Half Speeed (toggle)95 any	
Pre/Post (toggle) 96 any	
Undo (to initial loop) 89 any	
Redo 90 any	
Looper Level 98 0-127	

MIDI PATCH CHANGES:

Timeline presets are arranged in a grid of 100 numbered Banks (00-99) with 2 presets (A and B) within each Bank for a total of 200 presets.

е

Because MIDI Program Change messages have a maximum number of 128 (0-127), the presets are grouped into 2 MIDI Patch Banks:

MIDI BANK 0 = PRESETS 00A-63B MIDI BANK 1 = PRESETS 64A-99B

The presets are numbered sequentially within each bank:

PRESET 00A = MIDI program # 0 PRESET 00B = MIDI program # 1 PRESET 01A = MIDI program # 2 PRESET 01B = MIDI program # 3 PRESET 02A = MIDI program # 4 etc. up to #127...

TimeLine always powers up in MIDI Patch Bank 0, so if you plan to stay within the first 127 presets (00A-63B), simply send a standard MIDI Program Change message to load a preset.

If you will be using MIDI Bank 1, it is advisable to send a standard MIDI Bank Change message [MIDI CC# 0 with a value equal to the MIDI Bank #] before each MIDI Program Change.

MIDI Specification Continued

OTHER MIDI CC NUMBERS:

	CC#	VALUE RANGE			
A footswitch	80	down=0 up=127			
B footswitch	82	down=0 up=127			
TAP footswitch	81	off=0 on=127			
Remote TAP	93	any			
Expression Pedal	100	0-127			
Bypass	102	byp=0 eng=127			
Phase Reset	125	any			
MIDI Patch Bank	0	0-1			
-Send a 0 value to access presets 00A - 63B.					
-Send a 1 value to access presets 64A - 99A.					

LOOPER MIDI CONTROL VIA MIDI NOTE #'S:

The looper can also be controlled with MIDI note numbers.

Record	note 0, velocity > 0
Play	note 2, velocity > 0
Stop	note 4, velocity > 0
Reverse (toggle)	note 14, velocity > 0
Full/Half Speed (toggle)	note 16, velocity > 0
Pre/Post (toggle)	note 17, velocity > 0
Undo (to initial loop)	note 7, velocity > 0
Redo	note 9, velocity > 0
Reverse (absolute)	note 103, velocity = 127
Forward (absolute)	note 103, velocity = 0
Half Speed (absolute)	note 104, velocity = 127
Full Speed (absolute)	note 104, velocity = 0

MIDI CLOCK:

TimeLine will accept MIDI clock at the MIDI input and sync delay time.

FEATURES

- 12 hand crafted delay machine algorithms for meticulous and nuanced delay sounds
- Ultra Low Noise, high performance A/D and D/A Converters
- Premium analog front end and output section
- Analog dry path for a zero latency dry signal that is never converted to digital
- High Performance DSP
- 200 presets, selectable via encoder, MIDI or on the fly via footswitch
- Numerous deep edit parameters on all delay machines
- Full time 30 second looper available pre or post delay
- Stereo Input & Output

• Expression pedal input with selectable simultaneous control over multiple knob parameters

• Feedback loop option for inserting an external effect into the delay feedback

- +/- 3dB adjustable analog boost or cut configurable per preset
- Delay persist "trails" selectable per preset
- Full time Tap Tempo footswitch and external Tap footswitch available via EXP input
- Rugged & Lightweight Anodized Aluminum Chassis
- Intuitive, performance friendly User Interface
- Global bypass selectable between True Bypass or Analog Buffered Bypass on the fly via footswitch/MIDI

SPECIFICATIONS

Input Impedance Output Impedance Signal to Noise A/D & D/A Frequency Response Max Input Level Bypass Switching

1Meg Ohm 100 Ohm 115 dB typical 24-bit 96kHz 20Hz to 20kHz +8dBu True Bypass (electromechanical relay switching) or Analog Buffered Bypass (with selectable delay persist "trails") 5" deep x 6.75" wide x 1.87" tall

Dimensions

POWER SUPPLY

Input Voltage Required Current

9VDC Center Negative 300mA

STRYMON NON-TRANSFERRABLE LIMITED WARRANTY

Warranty

Strymon warrants the product to be free from defects in material and workmanship for a period of one (1) year from the original date of purchase. If the product fails within the warranty period, Strymon will repair or, at our discretion, replace the product at no cost to the original purchaser.

Exclusions

This warranty covers defects in manufacturing discovered while using this product as recommended by Strymon. This warranty does not cover loss or theft, nor does the coverage extend to damage caused by misuse, abuse, unauthorized modification, improper storage, lightning, or natural disasters.

Limits of Liability

In the case of malfunction, the purchaser's sole recourse shall be repair or replacement, as described in the preceding paragraphs. Strymon will not be held liable to any party for damages that result from the failure of this product. Damages excluded include, but are not limited to, the following: lost profits, lost savings, damage to other equipment, and incidental or consequential damages arising from the use, or inability to use this product. In no event will Strymon be liable for more than the amount of the purchase price, not to exceed the current retail price of the product. Strymon disclaims any other warranties, express or implied. By using the product, the user accepts all terms herein.

How to Obtain Service Under this Warranty

For North American customers: Contact Strymon through our website at http://www.strymon.net/support for Return Authorization and information. Proof of original ownership may be required in the form of a purchase receipt.

For International Customers: Contact the Strymon dealer from which the product was purchased from in order to arrange warranty repair service.

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