WAMPLER®
catacombs

USER GUIDE

WELCOME

The **Wampler Catacombs** is the latest in our MIDI DSP line of pedals which began with the Wampler Terraform. We've spent a long time playing with all of the best delay and reverb pedals we could find, including a few we have created ourselves, and have combined them all into this pedal.

We've taken 11 of Brian Wampler's favorite delay and reverb effects and put them inside one small footprint stomp box. We've made it fully programmable, true stereo, given it full MIDI control, presets, an expression input that you can assign to ANY of the parameters...

If you'd rather watch a bunch of videos on how to use the Catacombs, go hit up the Wampler website and check out some of the videos - also don't forget to register your warranty and get a FREE software plugin version of this pedal for your DAW!

The whole Wampler team hopes that this pedal brings you many years of playing enjoyment and please don't hesitate to contact us if you have a question about this or any of our products.

CONTENTS

The following designations are not owned by or associated with Wampler Pedals, Inc. but are instead owned by their respective owners: Electro-Harmonix Memory Man, Boss DM-2, Maestro Echoplex, Binson Echorec, TC Electronics 2290 Dynamic Digital Delay.

OVERVIEW

Program Selector:
Alt Mode selects Reverbs

ANLG - Analog Delay
BBD - 'Bucket Brigade' Delay
FTE - 'Faux Tape Echo'
SPC - Echo-Space Delay
TAPE - Multi-head / Tape Delay
DIGI - Digital Delay
SHMR - Shimmer Reverb
PLT - Plate Reverb
SPR - Spring Reverb
ROOM - Room Reverb
HALL - Hall Reverb

MIDI Input / Output:
Use 1/8" TRS Type A

Routing Switch:
Series (L)
Parallel (R)

Power:
9V DC Only
130mA

Expression:
1/4" TRS Expression Pedal Input

Primary Controls:

Time: sets delay length between 20ms and 2000ms
Alt - Shimmer: When using the Shimmer Reverb program, sets the shimmer amount

Mod: sets modulation depth
Alt - Rate: sets modulation rate

Feedback: sets Delay feedback
Alt - Decay: sets the Reverb program's decay

Delay: Sets Delay program output level
Alt - Tone: Sets Delay tone

Reverb: Sets Reverb program output level
Alt - Tone: Sets Reverb tone

Bypass / Alt Mode:
Turns effect on/off

Alt: Hold down the bypass switch until the bypass LED turns red to select Alt controls *(Press and hold for quick changes, mode will latch on after 2 Seconds)*

Output Jacks:
Mono or Stereo

Input Jacks:
Mono or Stereo

Preset Switch:

Presets 1-8 are accessible via the front panel preset switch;
To save the current setting configuration to a preset:

- Hold the preset switch for 1 second. The preset LEDs will blink, indicating the destination preset.
- Select the preset destination by pressing the preset switch to cycle through presets 1-8. Press and then hold the preset switch to save the preset to the indicated preset number.

Tap Tempo Switch / LED :

The right footswitch serves multiple functions; the current function is indicated by the tap tempo LED. To cycle between functions, press and hold the right footswitch for one second until the tap tempo LED changes color.

Modes:

- Tap Tempo, LED will blink Blue
- Preset Increment, LED will blink Green
- Reverb On/Off, LED Lights Red (R Footswitch activates Reverb, L Delay)

DELAY AND REVERB

The Catacombs comes with 6 delay algorithms and 5 reverb algorithms ('Programs') hand picked by Brian Wampler. One delay effect and one reverb effect can be active at any time allowing you to create huge atmospheric soundscapes and super usable echo and reverb combinations. It is possible to audition the most suitable program by dialing in the required settings and rotating the **program selector** knob. The effects can be routed in either Series or Parallel, in either Mono or Stereo configurations. Settings can be saved to the pedal as Presets and called via the front panel push button or via MIDI as PC commands ***(See "PRESETS" on page 8)***. The Wampler Syntax can be used as a remote preset switcher.

TURNING THE PEDAL ON AND OFF

Use the bypass switch to turn the delay and reverb on and off together. The **bypass** LED will shine green/blue when on, and will be off when delay and reverb are off.

Note: to turn on/off the delay and reverb separately, see "Mode: Reverb On/Off" on page 8

SELECTING A DELAY PROGRAM

Use the **program selector** to select one of the six available delay programs. The current delay program will be indicated by a **program LED**.

SELECTING A REVERB PROGRAM

Hold down the **bypass switch** until the **bypass LED** turns red. Use the **program selector** to select one of the five available reverb programs. The current reverb program will be indicated by a **program LED**.

THE DELAYS

ANLG - ANALOG STYLE DELAY

This Program takes a classic analog-sounding delay circuit, one that is at home in any style of music, and gives it that Wampler touch. Based on the kind of warm, smooth, analog delay that would have been found in the mid 1980's, somewhat similar to the BOSS® DM2® range of delay pedals.

BBD - BUCKET BRIGADE DELAY

Brian often turned to his old Electro-Harmonix® Memory Man® pedal for inspiration. This setting is inspired by one of the best 'Bucket Brigade' delay pedals, known for its unique signal degradation as the delay unfolds, faithfully recreated here.

FTE - WAMPLER 'FAUX TAPE ECHO'

This is one of our most popular delay pedals and for good reason. A lot of tape emulation style delays simply add chorus to an existing digital delay circuit. Brian was not satisfied with this approach and so re-engineered it somewhat. The result was a delay pedal that reacted and sounded like a real tape delay unit. All of this was achieved with the traditional simplicity and ease of use the Wampler pedals are famous for.

SPC - ECHO-SPACE DELAY

This is inspired by a mixture of the classic Space Echo® and Maestro® Echoplex® style delay units with Brian Wampler's personal take. These delays were famous for their self oscillation capabilities and this Program is no different. The modulation effects on this Program emulate the natural wow and flutter of the original unit giving this delay a fantastically playable sound in the low and middle of its range.

TAPE - MECHANICAL / TAPE DELAY

Inspired by the sounds of the Binson® Echorec® delay and classic multi-head tape delays, this program emulates some of the most important delay sounds in rock music history. With Wampler's own filtering and saturation style of modulation this gets incredibly close to that great mechanical delay sound.

DIGI - DIGITAL DELAY

Based on Brian's interpretation of what was considered the 'Industry Standard' digital delay, the TC Electronics® 2290®Dynamic Digital Delay, this program is super clean for precise, clean, and modern delay tones that are both studio and stage worthy.

THE REVERBS

SHIMMER

The Shimmer reverb adds a layer of lush ambient harmonics that creates an otherworldly reverb with depth and huge creative possibilities. Use the **SHIMMER** control to alter the amount of shimmer, and use with an expression pedal to explore unique symphonic and atmospheric effects.

PLATE

Plate reverb was one of the earliest of studio effects, originally utilizing a series of metal plates held under tension and a transducer and microphone to "send" and "receive" the reverb sound. It has a characteristic brightness that makes this a favorite amongst guitarists.

SPRING

Another early reverb effect was the spring reverb - originating back in the 1930s and created by playing a signal through an actual metal spring. Brian found the perfect spring reverb sound and engineered this all new program for that perfect twangy reverb.

ROOM

Room reverb mimics the sound of playing in a smaller, enclosed space like a studio or practice room. It has a shorter, tighter decay compared to hall reverb, making your guitar sound more intimate and focused while still adding a natural ambiance.

HALL

This simulates the sound of playing in a large concert hall, giving your guitar tone a deep, spacious, and natural echo. The reflections are smooth and long-lasting, with a noticeable tail that can make your playing feel more dramatic and grand. This type of reverb adds a lush, ambient quality that works well for slower, atmospheric guitar parts, helping your sound bloom to fill the mix.

THE CONTROLS

There are five main control knobs on the surface of the pedal that control the parameters for each effect.

Each knob also has a secondary ('Alt') control noted underneath the main function in smaller blue type. Pressing or holding down the **BYPASS** footswitch accesses these Alt controls.

Unless specified, Clockwise (CW) is the highest / fastest setting and Counter Clockwise (CCW) is the lowest / slowest setting.

DELAY LENGTH

Use the **TIME** control to set the delay program's delay length. The delay length range is 20ms to 2000ms.

REVERB SHIMMER

When using the **Shimmer** reverb program, it is possible to adjust the amount of shimmer regeneration. Hold down the **bypass switch** until the **bypass LED** turns red. Use the **TIME** control to set the Shimmer reverb program's shimmer amount.

MOD DEPTH

Use the **MOD** control to set the delay program's mod depth.

MOD RATE

Hold down the **bypass switch** until the **bypass LED** turns red.

Use the **MOD** control to set the delay program's mod rate.

DELAY FEEDBACK

Use the **FEEDBACK** control to set the delay program's feedback (number of repeats). Counter-clockwise in less, Clockwise is more repeats.

REVERB DECAY

Hold down the **bypass switch** until the **bypass LED** turns red. Use the **FEEDBACK** control to set the reverb program's decay.

DELAY LEVEL

Use the **DELAY** level control to set the delay program's output level.

DELAY TONE

Hold down the **bypass switch** until the **bypass LED** turns red. Use the **DELAY** level control to set the delay program's tone.

REVERB LEVEL

Use the **REVERB** level control to set the reverb program's output level.

REVERB TONE

Hold down the **bypass switch** until the **bypass LED** turns red. Use the **REVERB** level control to set the reverb program's tone.

TAP TEMPO SUBDIVISIONS

Hold down the **bypass switch** until the **bypass LED** turns red. The **preset LEDs** will indicate the current subdivision setting. Press the **preset switch** to cycle through the 8 available subdivision settings.

- ●○○○ Quarter Note
- ○●○○ Dotted Eighth Note
- ○○●○ Eighth Note
- ○○○● Sixteenth Note
- ○●●● Half Note
- ●○●● Whole Note
- ●●○● Dotted Quarter Note
- ●●●○ Triplet Quarter Note

Notes:

- *The current delay time won't change when the subdivision setting is changed; the new subdivision value will be used for future tap tempo inputs.*
- *15 subdivision options are available via MIDI CC Messages (see "MIDI CC Messages" on page 12)*
- *The subdivision setting will also be used by the MIDI Clock to set the appropriate delay time when MIDI Clock is used (see "MIDI" on page 12)*

ROUTING & CONNECTIONS

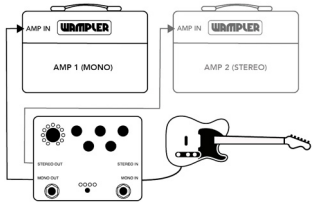
The Catacombs can be run in either Mono or Stereo using 2-4 guitar cables. The optimum connection for this pedal will be in the effects loop of a guitar amplifier. If your amp doesn't have an effects loop it will still sound awesome through the front input.

POWER

Connect a 9V DC Center Negative Power supply suitable for guitar pedals only, Current draw is approx 130mA. **DO NOT EXCEED 9V** - This pedal cannot be run at 18V.

STEREO

Use the MONO OUT for normal operation; use the additional STEREO OUT for stereo setups. To connect a Stereo Input additionally insert a cable into the Stereo In connector.



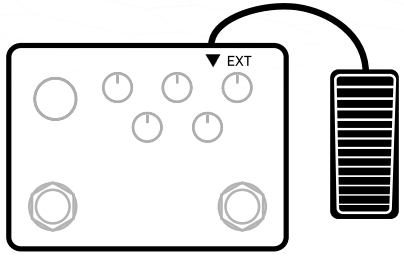
INDEPENDENT DELAY AND REVERB

The pedal's two channels can be configured in one of two ways: a single two-channel stereo effect, or two-channel mono independent delay and reverb effects. See "Setting stereo mode" on page 9.

EXPRESSION PEDAL

Each of the 10 rotary controls may be simultaneously controlled by an external expression pedal connect to the **EXT jack**.

1. Press and hold the **bypass switch and right footswitch** simultaneously for one second, and release when the **tap tempo LED** turns red.
2. Adjust each control for the 'minimum/heel' position of the expression pedal.



Connecting an expression pedal

3. Press and hold the **bypass switch and right footswitch** simultaneously for one second, and release when the **tap tempo LED** turns green.
4. Adjust each control for the 'maximum/toe' position of the expression pedal.
5. Press and hold the **bypass switch and right footswitch** simultaneously for one second, and release when the **tap tempo LED** blinks blue.

The expression pedal is now configured.

Notes:

- *Controls that were not adjusted during this process will not be affected by the expression pedal.*
- *Expression pedal configurations are saved to presets, allowing for different expression pedal configurations per preset.*
- *It is not necessary to adjust the expression pedal during setup.*
- *By default, the expression pedal will control the delay and reverb output levels.*
- *Expression pedal is wired in the 'regular' way:*
  T = Expression Output, R = 'Live' (5V), S = Ground.

RIGHT (TAP TEMPO) FOOTSWITCH

The **TAP TEMPO footswitch** serves multiple functions; the current function is indicated by the **tap tempo LED**. To cycle between functions, press and hold the **right footswitch** for one second until the **tap tempo LED** changes color.

MODE: TAP TEMPO

The **right footswitch** acts as a tap tempo switch; the **tap tempo LED** will blink blue to indicate this mode.

MODE: PRESET INCREMENT

The **right footswitch** acts to increment the preset; the **tap tempo LED** will blink green to indicate this mode. Presets will increment up to 8, and then start again back at 1.

MODE: REVERB ON/OFF

The **right footswitch** acts to turn the reverb on and off; the **tap tempo LED** will light red to indicate the reverb is on, and will turn off to indicate the reverb is off. The **bypass LED** will now indicate the delay's on/off state, separately from the reverb. This mode allows each footswitch to toggle each effect independently.

Note: changing the right footswitch mode to another mode will maintain the current delay and reverb on/off state. However, if the bypass switch is used while in another state, both the delay and reverb on/off states will be changed together.

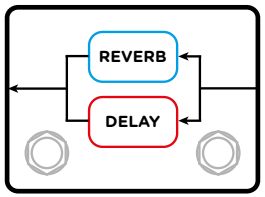
Note: it is possible to save a preset with the delay and reverb with independent on/off states.

SERIES / PARALLEL ROUTING

The delay and reverb programs can be routed internally in either series or parallel configurations.

SETTING SERIES/PARALLEL ROUTING MODE

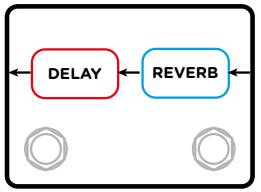
Set the **routing switch** left for series mode (delay and reverb in series), or right for parallel mode (delay and reverb in parallel).



Parallel

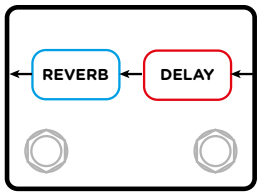
SETTING SERIES MODE

The ordering of the delay and reverb (when routing mode is set to series) may be selected so that either the delay outputs into the reverb, or the reverb outputs into the delay. Hold down the **bypass switch** until the **bypass LED** turns red. Set the **routing switch** left for D->R mode (default), or right for R->D mode.



Series - reverb into delay

*Note: after releasing the **bypass switch**, the previously set routing mode will be remembered despite the **routing switch** having been physically changed.*



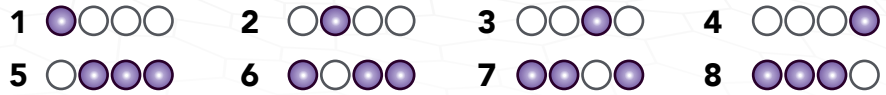
Series - delay into reverb

PRESETS

The Catacombs has 128 Preset locations to allow the saving of favorite settings (Presets), 8 of which can be saved and quickly recalled by the front panel **PRESET switch**, via the **TAP TEMPO switch** in Preset increment mode, or from an external switcher like the Wampler SYNTAX.

There are 4 LED's above the Preset switch to indicate which of the 8 front panel Presets are active. Presets 1-4 are shown with

one LED on and three off, Presets 5-8 are three on and one off.



SAVING A PRESET

To save the current setting configuration to a preset:

1. Hold the **preset switch** for 1 second. The **preset LEDs** will blink, indicating the destination preset.

2a. Select the preset destination by pressing the **preset switch** to cycle through presets 1-8. Press and then hold the **preset switch** to save the preset to the indicated preset number.

or

2b. Send a MIDI PC message to the pedal, with the PC number set as the desired preset save location. The pedal will save the preset to this location upon receiving a valid MIDI PC message.

*Note: If a preset has been saved to a preset in the range 9-128 via method 2b, the outer **preset LEDs** will light to indicate.*

LOADING A PRESET

To load a preset using the **preset switch**, press the **preset switch** to load the next preset in the range 1-8.

To load a preset via MIDI PC message, send to the pedal a MIDI PC message with a matching MIDI Channel number. This method allows access to all presets in the range 1-128.

Note: see "MIDI" on page 12 to connect external MIDI devices

Note: "Setting MIDI Channel" on page 10 to set the pedal's MIDI Channel

CONFIGURATION MENU

This pedal comes with a configuration menu to allow quick and easy access to device settings.

ACCESSING THE CONFIGURATION MENU

To access the configuration menu, press and hold the **preset switch**, and then apply power to the pedal. The first **preset LED** will blink (while others remain off) to indicate that the configuration main menu is active. Use the **bypass switch** and **right footswitch** to select a device setting to adjust (as shown by the **preset LEDs**). Use the **preset switch** to enter into the selected device setting menu, and then use the **preset switch** again to back out into the main menu. Save and exit the configuration menu at any time by holding the **preset switch**.

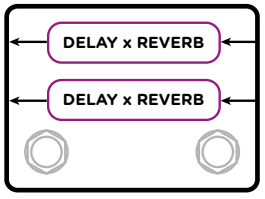
 SETTING BYPASS MODE (TRAILS)

To set the bypass mode to **true bypass** (trails off), press the **bypass switch** (default)

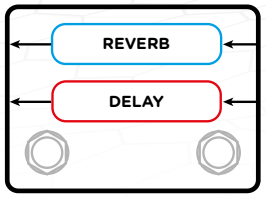
To set the bypass mode to **buffered bypass** (trails on), press the **right footswitch**

 SETTING STEREO MODE

The pedal's two channels can be configured in one of two ways: a single two-channel stereo effect, or two-channel mono independent delay and reverb effects.



Two-channel stereo



Two-channel mono independent

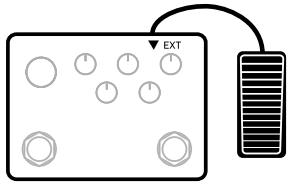
The mono mode allows each effect to be placed in different locations in the player's signal chain. The delay will be processed on the delay channel, and the reverb will be processed on the reverb channel.

To set the stereo mode to **stereo**, press the **bypass switch** (default)

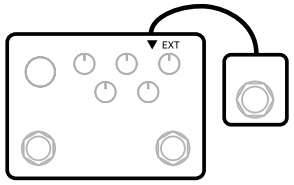
To set the stereo mode to **mono**, press the **right footswitch**

SETTING EXT MODE

The **EXT jack** can be interfaced with an expression pedal via TRS cable, or a single external switch via TS or TRS cable. This menu configures which external device is being interfaced. Use the **bypass switch** and **right footswitch** to select the EXT mode indicated by the preset LEDs.



Connecting an expression pedal



Connecting a remote footswitch

- Expression pedal (default)
- External switch : tap tempo
- External switch : preset decrement
- External switch : preset increment
- External switch : reverb on/off

SETTING THE NUMBER OF FRONT PANEL PRESETS

The number of presets available on the front panel may be switched between 8 and 4 presets.

To set the number of front panel presets to 8, press the **bypass switch** (default)

To set the number of front panel presets to 4, press the **right footswitch**

Note: this does not affect the number of presets available via MIDI PC messages, which is fixed at 128.

SETTING MIDI CLOCK SYNC

This pedal can receive MIDI Clock messages to set its delay time.

To enable MIDI Clock Sync, press the **bypass switch** (default)

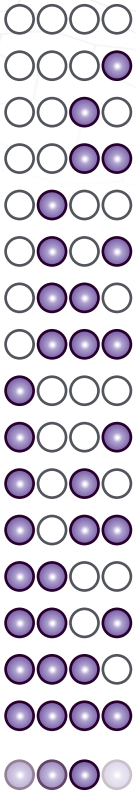
To disable MIDI Clock Sync, press the **right footswitch**

Note: the subdivision setting will scale incoming MIDI Clock messages, see "MIDI REALTIME Messages" on page 13

SETTING MIDI CHANNEL

The pedal is assigned a MIDI Channel by which other MIDI devices may address it. By default, the MIDI Channel is set to **Omni Mode** (and will respond to MIDI messages on all channels).

To specify a specific channel 1-16, use the **bypass switch** and **right footswitch** to select the desired MIDI Channel. We use a binary numbering system to allow 16 channels as shown right which differs from the preset menu / subdivisions sequence.



MIDI Channel 1
MIDI Channel 2
MIDI Channel 3
MIDI Channel 4
MIDI Channel 5
MIDI Channel 6
MIDI Channel 7
MIDI Channel 8
MIDI Channel 9
MIDI Channel 10
MIDI Channel 11
MIDI Channel 12
MIDI Channel 13
MIDI Channel 14
MIDI Channel 15
MIDI Channel 16
Omni Mode (flashes in sequence - default)

PERFORMING A MIDI SELF-TEST

To verify that the **MIDI In** and **MIDI Out** hardware is functioning properly, a self-test has been included. To perform the self-test, connect a single 3.5mm TRS cable to both **MIDI In** and **MIDI Out** jacks. Enter the MIDI Self-Test Configuration Menu option, and then press either the **bypass switch** or **right footswitch.** Within 1 second, the **tap tempo LED** will either light blue (MIDI hardware is working correctly) or red (cable is improperly connected or MIDI hardware is malfunctioning).

CRITICAL NOTE: Do not boot the pedal with all three switches pressed down while the 3.5mm cable is self-connecting the MIDI jacks as described above. The pedal may clear its program memory, requiring it to be re-downloaded via a SysEx firmware update.

PERFORMING A FACTORY RESET

A factory reset will restore the default configuration settings and presets to the pedal. To perform the factory reset: verify that the **MIDI In** and **MIDI Out** jacks are unpopulated. Hold the **bypass switch, preset switch,** and **right footswitch** down, and then power up the pedal. This will initiate the factory reset. The **bypass LED, preset LEDs,** and **tap tempo LED** will blink to indicate the factory reset is successful.

SENDING PC MESSAGES FROM PEDAL

When changing presets with the **preset switch, right footswitch,** or **external footswitch**, the pedal will output a matching PC message on the pedal's MIDI Channel. This will allow some synchronization between MIDI-capable devices without the need for a dedicated MIDI Controller. Selecting preset 1 will output PC1, and so on up to preset 8 outputting PC8.

Wampler Terraform and Metaverse pedals both support this feature. All three can be connected and controlled downstream from the Catacombs.

SENDING TAP TEMPO CC MESSAGES FROM PEDAL

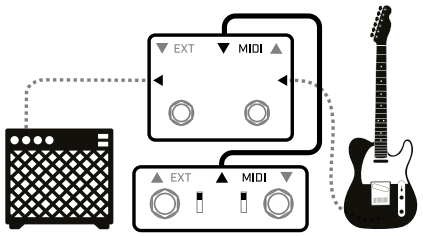
When pressing the tap tempo switch (either with the **right footswitch** or **external footswitch**), the pedal will output a pair of CC messages on the pedal's MIDI Channel. This will allow some tempo synchronization between MIDI-capable devices.

CC81 value=0 is output when the tap tempo switch is pressed

CC81 value=127 is output when the tap tempo switch is released

MIDI

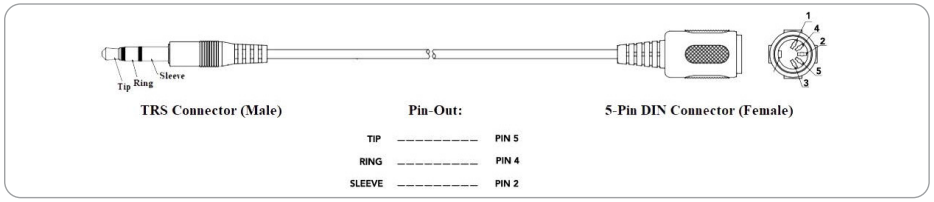
The Catacombs offers complete control over every Program via either MIDI CC Messages or PC Commands. It can accept a Global Clock signal from a MIDI controller. Connect a controller to the **MIDI In** and any downstream devices to the **MIDI Out**. A standard 3.5mm TRS connector cable can be used when cabling between other Wampler products including the SYNTAX Switcher.



Connecting a MIDI Controller

A 5 Pin DIN to 3.5mm TRS adapter is included in the box, the specification for the cable is as below.

MIDI CONNECTOR SPEC.



Wampler pedals communicate using TRS type A cables

MIDI CC MESSAGES

Every parameter can be controlled by sending CC Messages to the device from a compatible MIDI controller as described in the following table.

CC Function	CC no.	Value (0-127)	Description
Bypass State	1	0=off, 1-127=on	value=0 turns off delay and reverb value=1-127 turns on delay and reverb
Delay State	2	0=off, 1-127=on	value=0 turns off delay value=1-127 turns on delay
Reverb State	3	0=off, 1-127=on	value=0 turns off reverb value=1-127 turns on reverb
Delay Program	4	0-5, else 0	Select Delay Program Send the corresponding MIDI CC value to select the delay program: 0 = ANLG 1 = BBD 2 = FTE 3 = SPC 4 = TAPE 5 = DIGI
Delay Time (knob)	5	0-127	Emulate the Delay Time knob. Value=0 is 20ms Value=127 is 2000ms
Delay Time (high ms)	6	0-15	A Time High message followed by a Time Low message will set the delay time to a specific ms value. it is possible to set very specific delay times (with 1ms resolution) using two sequential MIDI commands. First, send CC 5 with the high byte (calculated below) Second, send CC 6 with the low byte (calculated below)
Delay Time (low ms)	7	0-127	To set a specific delay time in milliseconds using MIDI CC 5 and 6: 1. Determine high byte: take delay time in milliseconds and divide by 128. The number left of the decimal is the high byte. (example: 400ms delay time -> 400/128 = 3.125 -> high byte = 3 2. Determine low byte: multiply the number right of the decimal by 128. This is the low byte. (example: 400ms delay time -> 400/128 = 3.125 -> 0.125 -> 0.125 * 128 = 16 -> low byte = 16 3. Send MIDI CC 5 val=highbyte (3) first, and then MIDI CC 6 val=lowbyte (16) second. 4. After receiving both bytes, the device will update the delay time to match the received messages.
Delay Feedback (knob)	8	0-127	Emulates the Delay Feedback knob
Delay Tone (knob)	9	0-127	Emulates the Delay Tone knob
Delay Level (knob)	10	0-127	Emulates the Delay Level knob

CC Function	CC no.	Value (0-127)	Description
Reverb Program	11	6-10, else 10	Send the corresponding MIDI CC value to select the reverb program: 6= Shimmer 7 = Plate 8 = Spring 9 = Room 10 = Hall
Reverb Shimmer (knob)	12	0-127	Emulates the Reverb Shimmer knob
Reverb Decay (knob)	13	0-127	Emulates the Reverb Decay knob
Reverb Tone (knob)	14	0-127	Emulates the Reverb Tone knob
Reverb Level (knob)	15	0-127	Emulates the Reverb Level knob
Mod Depth (knob)	16	0-127	Emulates the Mod Depth knob
Mod Rate (knob)	17	0-127	Emulates the Mod Rate knob
Subdivision	18	0-14	Sets the tap tempo subdivision (0-7 are accessible via the front panel) Select the Subdivision setting for the Tap Tempo Switch and MIDI Clock 0 = Quarter 1 = Dotted Eighth 2 = Eighth 3 = Sixteenth 4 = Half 5 = Whole 6 = Dotted Quarter 7 = Triplet Quarter 8 = Dotted Sixteenth 9 = Dotted Half 10 = Dotted Whole 11 = Triplet Sixteenth 12 = Triplet Eighth 13 = Triplet Half 14 = Triplet Whole
Tap Tempo	81	0	Emulate the tap tempo function of the tap tempo switch when val=0
Preset Decrement	82	0-127	Decrement the current preset number by <value> and load preset. Special case: value=0 will reload the current preset
Preset Increment	83	0-127	Increment the current preset number by <value> and load preset. Special case: value=0 will reload the current preset
Footswitch Mode	84	0, 3-127=tap tempo 1=preset inc 2=reverb separate	Configure the Right Switch mode between “Tap Tempo”, “Preset Increment”, and “Reverb Bypass” 0, 3-127 = Right Switch will trigger tap tempo 1 = Right Switch will increment the preset 2 = Right Switch will bypass/engage the reverb, and Left Switch will only bypass/engage the delay
Routing Mode	86	0=parallel 1=series D->R 2=series R->D	Sets the routing mode 0=parallel 1=series D->R 2=series R->D
MIDI Clock Enable	99	0=off, 1-127=on	Enable or disable the MIDI Clock Sync: 0 = ignore MIDI Clock 1-127 = set tempo based on MIDI Clock
Expression Pedal	100	0-127	Emulate Expression pedal input

MIDI PC MESSAGES

Program Change (PC) messages can be used to recall Presets (Patches) stored on the Catacombs.

PC Function	PC Number	Description
Load a Preset	0-127	Loads Preset of matching PC number
Save a Preset	0-127	When in Preset-write mode, sending a PC number will save the current settings to that Preset number

MIDI REALTIME MESSAGES

Realtime message can be used for the following functions:

Realtime Message	Number	Description
MIDI Clock	248	Will set the delay time based on received MIDI Clock, multiplied by the subdivision setting The delay time can sync with MIDI Clock. When enabled (see CC 99), the MIDI Clock input will be multiplied by the current Subdivision setting, and the delay time will update automatically to the incoming MIDI Clock. BPM = 60000 / (delay time in ms) Delay time in ms = 60000 / BPM
Start	250	Sync the tap tempo LED

PRESET SETTINGS

1 - FAUX TAPE ECHO & HALL REVERB

3 - MECHANICAL / TAPE DELAY & HALL REVERB

2 - ECHO-SPACE & ROOM REVERB

4 - ECHO-SPACE & SHIMMER REVERB

5 - ANALOG DELAY & SPRING REVERB

6 - FAUX TAPE ECHO & SPRING REVERB

7 - BUCKET BRIGADE DELAY & PLATE REVERB

8 - DIGITAL DELAY & HALL REVERB

HINTS & TIPS

• To get started really quickly with MIDI, the simplest route is to create Presets on the Catacombs and send PC messages from a compatible MIDI controller to select each Preset. This is a good way of playing with the power of MIDI without figuring out a whole string of CC messages initially; the most control can be gained by full mastery of CC messages however.

• This pedal can accept a Global MIDI clock signal. This means patches can be created on a MIDI switcher that set the tempo of the delay and will override the Delay Time setting of the pedal if sent. To get to the right millisecond setting for any given delay it is possible to divide the BPM by the Subdivision. There are websites that have calculators that take all the hard work out of these calculations.

• If connecting this to another Wampler pedal that uses MIDI use a 3.5mm TRS -> TRS cable to connect via MIDI between the two pedals.

• If a Catacombs is connected to a Terraform and / or Metaverse in isolation (i.e.. No MIDI controller present) it is possible to sync them ALL. The Catacombs (connected to the Terraform / Metaverse with a TRS cable from Catacombs MIDI Thru to Terraform / Metaverse MIDI In) will send messages downstream to the allowing the synchronization of presets and tap tempo.

• The Wampler SYNTAX switcher can act as a preset remote / external footswitch for the Catacombs.

ALT controls depicted in red

WARRANTY INFORMATION

Wampler PEDALS LIMITED WARRANTY.

Wampler offers a five (5) year warranty to the original purchaser that this Wampler product will be free from defects in material and workmanship. This warranty does not cover service or parts to repair damage caused by accident, neglect, normal cosmetic wear, disaster, misuse, abuse, negligence, inadequate packing or shipping procedures and service, repair or modifications to the product, which have not been authorized by Wampler. If this product is defective in materials or workmanship as warranted above, your sole remedy shall be repair or replacement as provided below.

RETURN PROCEDURES.

In the unlikely event that a defect should occur, follow the procedure outlined below. Defective products must be shipped, together with a dated sales receipt, freight pre-paid and insured directly to:

Wampler SERVICE DEPT
5300 Harbor Street, Commerce, CA 90040.

A Return Authorization Number must be obtained from our Customer Service Department prior to shipping the product. Products must be shipped in their original packaging or its equivalent; in any case, the risk of loss or damage in transit is to be borne by the purchaser. The Return Authorization Number must appear in large print directly below the shipping address. Always include a brief description of the defect, along with your correct return address and telephone number.

When emailing to inquire about a returned product, always refer to the Return Authorization Number. If Wampler determines that the unit was defective in materials or workmanship at time during the warranty period, Wampler has the option of repairing or replacing the product at no additional charge, except as set forth below. All replacement parts become the property of Wampler. Products replaced of repaired under this warranty will be returned via ground shipping within the United States-freight prepaid. Wampler is not responsible for costs associated with expedited shipping, either to Wampler or the return of the product to the customer.

INCIDENTAL OR CONSEQUENTIAL DAMAGE.
In no event is Wampler liable for any incidental or consequential damages arising out of the use or inability to use of any Wampler product, even if Wampler or a Wampler dealer has been advised of the possibility of such damages, or any other claim by any other party. Some states do not allow the exclusion or limitation of consequential damages, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

Our dedicated team is ready to help you with any warranty or product questions – please email us **help@Wamplerpedals.com or call us at (765) 352-8626**

Please remember to register your pedal as soon as possible after purchase at the following web page to ensure quicker service if you should need to make a warranty claim: **www.registeryourWampler.com**

- NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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