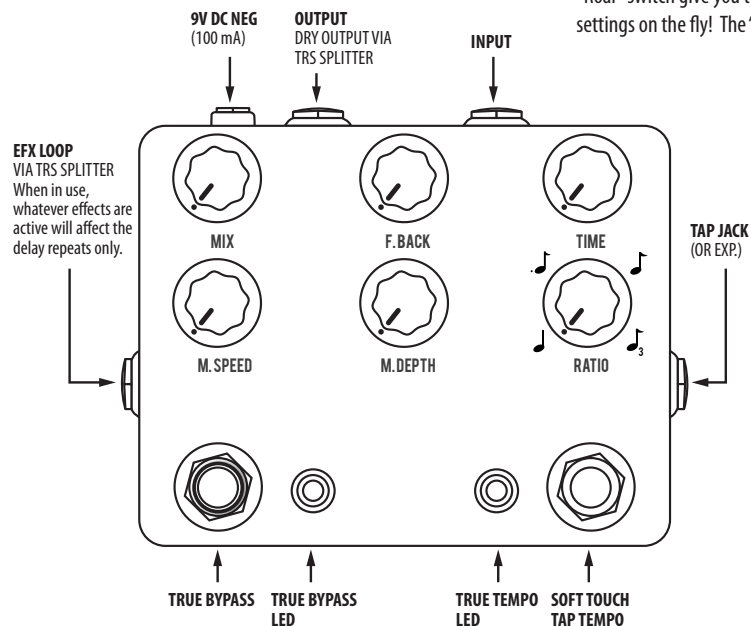




# PANTHER CUB ANALOG TAP TEMPO DELAY

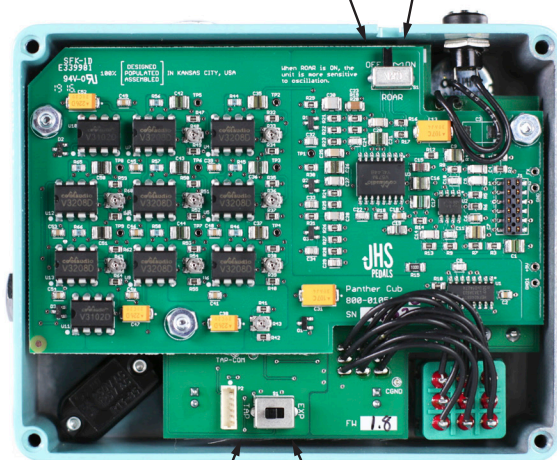
Thanks for purchasing a Panther Cub Analog Delay pedal! In 2011 we released the Panther Analog Delay, almost exactly two years later we tried a nearly impossible feat of taking everything we love about the Panther Delay, making a few improvements, and packaging it into an enclosure half the size. We are proud to bring you the Panther Cub with true Bucket Brigade delay that has the tone and options to cover any style, any use, and any player. The Panther Cub Delay has a groundbreaking feature set including "tap tempo control" that lives within an all analog full second of delay time! The "effects loop" allows you to place any effect chain on the repeats only. We kept the four section "Ratio Control" to give you 1/4 dotted 1/8th, 1/8th, and Triplet divisions. The built in "Modulation" gives you a shimmery Deluxe Memory Man type vibe and works perfectly even with tap in use. The Panther Delay was the first to do this! The internal "Roar" switch give you two different levels/sensitivity of oscillation and runaway. As the user you have the ability to program an "expression control" to your favorite knob to use it to change settings on the fly! The "Tap In/Out" jack lets you remotely tap in a tempo or slave another tap device for amazing live flexibility. All this and more is powered by a standard 9v supply.



Toggle to the LEFT engages **STOCK** mode for warmer slightly darker repeats and less run-away oscillation.

Toggle to the RIGHT engages **ROAR** mode for more run-away and oscillation available.

"ROAR"



Toggle to the LEFT engages Tap mode for external tap slaving.

Toggle to the RIGHT engages Expression Pedal mode.

## FEATURES & SPECS

- 1000 Milliseconds of Delay (1 full second)
- 100% Analog signal path
- Eight 3208 Bucket Brigade Delay chips
- Efficient and compact 1590BB size case
- 4 position Ratio control (1/4, 1/8, dotted 1/8, Triplet)
- Standard 9v DC Negative power
- Soft-touch tap tempo
- Onboard Modulation (speed/depth) that stays accurate even when using Tap Tempo
- Internal ROAR switch (2 modes for run-away sensitivity)
- Dry Out (via TRS splitter) for Stereo Field of sound
- Space saving top mounted Input/Output jacks
- EFX Loop (via TRS splitter) that affects the repeats only
- "True Speed" LED (indicates the rate of the actual delay)
- Assignable Expression (expression pedal can control Speed, Ratio, Mod Depth, or Mod Speed)
- Improved and strengthened Feedback and Oscillation
- Improved Delay overall definition and strength
- Tap Input/Output allows external tap controller or slaving
- True Bypass switching

## CONTROLS

**MIX** – Controls the volume of the delay repeats only.

**FEEDBACK** – Controls the amount of delay repeats. In "Stock" (non-ROAR) mode the Panther Cub is designed to produce a warmer slightly darker repeat with less run-away oscillation sensitivity. In "ROAR" mode, the Panther Cub is designed to produce more run-away oscillation when Feedback Knob is set above 12 o'clock – 3 o'clock. The higher the Feedback Knob is set, the greater the amount of run-away oscillation will occur. Rollback the Feedback Knob below 12–3 o'clock to reduce and control the run-away.

**TIME** – Controls the delay time up 1000ms.

**MODULATION SPEED** – Controls the speed of the modulation.

**MODULATION DEPTH** – Controls the depth of the modulation. Roll this knob to the left to reduce or eliminate Modulation.

**RATIO** – Controls the tap subdivision: Quarter, Dotted-eighth, Eighth, and Triplet note divisions. The setting of the Ratio control applies constantly whether using Tap Tempo or when manually adjusting the Time knob.

## INTERNAL CONTROLS

**ROAR SWITCH** – With the backplate removed you will see a small dip-switch located towards the top-right corner of the circuit board. This 2-position dip-switch is labeled ROAR switch. This switch offers two slightly different styles of repeats and offers two different sensitivity levels of run-away oscillation. With the switch in the **LEFT** position the pedal is in Stock or non-ROAR mode. When the switch is in the **RIGHT** position the pedal is in the ROAR mode. Panther Cub pedals are shipped directly from the JHS Pedals workshop in Stock (non-ROAR) mode.

**STOCK MODE** – Dip-switch in LEFT position, produces slightly darker/warmer repeats and more subtle run-away oscillation sensitivity.

**ROAR MODE** – Dip-switch in RIGHT position, produces a slightly brighter repeat and is more sensitive to run-away oscillation in this mode.

If run-away oscillation is too intense to your liking, roll back the Feedback knob until it cleans up to your taste.

**TAP/EXPRESSION SWITCH** – With the backplate removed you will see a small dip-switch located towards the bottom-center of the circuit board. This 2-position dip-switch is labeled and gives you the option to use the corresponding 1/4" jack as an external Tap Tempo jack Input for Syncing or a Tap Tempo jack Output for slaving. With the switch in the right position, the corresponding 1/4" jack can be used with any TRS Expression Pedal (we suggest M-Audio expression pedal) while in "Program Mode."

## PROGRAM MODE

The Panther Cub also includes Program Mode which functions exactly as it did in the Panther Analog Delay pedal. To enter Program Mode, hold down the tap-tempo foot-switch for 3 seconds until the tap LED turns off indicating the pedal is in Program Mode. While in Program Mode, you can assign an Expression Pedal to control one of the following by turning the knob: Time, Mod Speed, Mod Depth, Ratio. Once you turn the knob of your choice, exit Program Mode by hitting the tap tempo switch. After exiting Program Mode, your expression pedal will now control the function of the knob you chose.

## POWER

This pedal cannot be powered by a 9V battery. It requires the use of a standard 9V DC, regulated, center-pin negative power. Use of a power supply other than mentioned may cause damage to the pedal and void the warranty of this unit. To avoid damage of your pedal, please do not use AC power or supplies providing other than 9V of power. 100mA consumption.

**JHS PEDALS**