dually reverb

dual spring tank, stereo in/out analog reverb

features & specs

- The dually reverb is a dual spring tank, two-channel, true stereo design featuring the ability to work with distortion, fuzz, delay, and modulation pedals providing reverb tones beyond those found in popular combo amps. (Deluxe Reverb, Twin Reverb, etc.) Baseline setup is all knobs at 12:00 Mute toggle - Normal
- The dually reverb may be operated four ways:
  1) Mono-In / Mono-Out
  2) Mono-In / Stereo-Out
  3) Stereo-In / Stereo-Out
  4) Mono-In / Mono-Out (reverb tanks in series and foot switchable - A or B or A+B)
- The dually reverb features two independent foot switchable channels (A and B). Both channels may be foot switched On or bypassed at the same time (the foot switches are positioned to accommodate this). Or, foot switched independently.
- Hardwired, True-Bypass switching is featured for both channel A and channel B. Each channel features a separate ON indicator (Red LED).
- The primary Input is channel A. Use this input for Mono-In / Stereo-Out operation. Both channel A and channel B feature identical sets of Dwell, Tone, Mix and Volume knobs. All control knobs feature active circuitry making them much more powerful and covering a wider range than typical passive controls.
- Channel B features a Mute / Normal toggle switch which allows the choice of muting channel B when foot switching channel B to the bypass mode. This can be useful in creating extra musical drama with a two amp stereo setup. Leave the switch in the Normal position for one amp use.
- Dwell knobs (A and B) offer the complete range from barely tickling the springs to completely over-driven. Be careful when using the dually Mono-In / Mono-Out with both spring tanks in series (A+B), and both foot switched on, because loud self-oscillation will result if Dwell and Tone knobs are set too high.
- Tone knobs (A and B) feature active circuitry, and have no effect on the Dry signal. The Tone knobs are treble controls for the reverb signal only, and are flat at 12:00. Turning the Tone controls counter-clockwise cuts treble. Turning the Tone controls clockwise boosts treble.
- Mix knobs (A and B) offer the complete range from dry-only (full counter-clockwise) to a 50/50 mix of dry and reverb (Mix knob at 12:00), to a saturated reverb (full clockwise). The Mix knob does **not** eliminate the dry signal, it just keeps adding reverb.
- Volume knobs (A and B) allow matching the bypassed volume at any setting of the dually's Dwell, Tone or Mix knobs. Baseline setup is all knobs at 12:00 Mute toggle - Normal.
- The Accutronics reverb tanks used in the dually are both 2-spring tanks with similar decay times, but the tank used in channel B (B for Bright) has a brighter voice. Having two different tanks is useful in many applications.

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- In stereo setups using two amps, it is very important to observe proper grounding of the entire rig to prevent ground loop hum or buzz. Since most amps will have a grounded power plug (3 prongs), using two amps with grounded power plugs can create a ground loop. The simplest solution is to place a 3-prong to 2-prong plug adapter on one of the amp's power cord plugs (but not both). A completely isolated pedal-board power supply (like the Cioks DC-7) will assure that a ground loop is not created from your pedal board.

- In stereo setups using two dissimilar amps (brand, type or vintage) it is possible to have noise even with proper grounding. In this circumstance, just one amp will have hum or buzz. The amp with hum or buzz will likely have a power polarity miss-match. If the amp has a polarity switch on the back, try flipping the switch. Or, if the amp has a vintage two prong power plug, just unplug the power plug, flip the plug over, and plug it back in. If the amp has a grounded power plug, use a 3-prong to 2-prong adapter, flip it over, and plug it in. Note: some adapters have one prong taller than the other; this type won't work without grinding or filing the taller prong to the same size as the other one.

- Like all toneczar products, the dually reverb operates on 18v DC. (no batteries). The recommended power supply for the US and World market is the Cioks DC-7. Do not attempt to use a 9v power supply. Power jack is the standard 5.5 x 2.1mm. center tip - negative.

- Extremely quiet operation. However, there are two actual spring reverb tanks inside the dually and even though they are shock mounted, if you bang the dually really hard or stomp the foot switches with force, you will hear this in the reverb trails. The easiest way to deal with possible foot switch noise is to press the foot switches gently while playing, thus keeping the spring tanks busy providing reverb for music.

- Built for life construction featuring full-size thru-hole components and a thru-plated FR4 epoxy glass printed circuit board that is hand soldered, hand wired, scope-tested and tuned. There are no miniature surface-mount components. No pcb mounted pots, jacks or switches. No aluminum electrolytic caps in the signal path. No internal trim pots, DIP switches, socketed parts, ribbon wire or push-on connectors (nothing to work loose and fall apart).

- The dually reverb is offered in two finishes, powder-coat matte black or the optional polished aluminum. Note: this is not a show finish. It will be full of character, matching the rest of the toneczar product line. These products are designed to be installed on a pedal board and stepped on, not polished with a soft cloth and admired.

- SPECIFICATIONS

Channel A and Channel B Input Impedance: > 500K ohms
Channel A and Channel B Output Impedance: < 50K ohms
Current Consumption: 150ma. @ 18v dc
Dimensions: 7 1/2" W x 4 1/4" D x 2 1/4" H
(knobs add 1" to height)
Weight: approximately 2 lbs.

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