



# stereo powerglide

## two-speed, stereo in/out analog tremolo

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- The stereo powerglide is a two channel, two speed design. It is NOT two separate tremolo pedals in one box.
- The stereo powerglide may be operated three ways:
  1. Mono In / Mono Out
  2. Mono In / Stereo Out
  3. Stereo In / Stereo Out
- The stereo powerglide features two separate foot-switchable signal channels (A and B). Both channels may be switched “on” or bypassed at the same time (the foot-switches are positioned to accommodate this). Or, they may be switched “on” or bypassed independently.
- Hardwired, True-Bypass switching is featured for both channels A and B. Each channel features a separate “on” indicator LED (Red).
- The stereo powerglide features two independent foot-switchable speeds featuring glitchless switching between Speed 1 and Speed 2.
- Individual Speed 1 and Speed 2 indicator LEDs (Yellow and Green) flash in time to the speed selected, even when the pedal is in the bypass mode. LEDs flash “on” in time with the volume swell to allow easy *playing in time* to slow-speed tremolo settings.
- The main input, Channel A, features individual Depth knobs for each Speed. Depth knob 1A is for Speed 1. Depth knob 2A is for Speed 2. For example, you may desire a slow, but very **deep** Speed 1 setting. To achieve this, set Speed 1 (yellow LED) to taste, and set Depth knob 1A to 5:00 (max depth). You may also desire a fast, but **soft** warble for Speed 2, To achieve this, set Speed 2 (green LED) to taste, and set Depth knob 2A to 12:00. The individual Depth knobs provide the ability to have great contrast in depth between the two speed settings, or both Depth knobs may be set the same for two different speeds with the same depth.
- The second input, Channel B, features a single Depth knob B for both Speed 1 and Speed 2. This simplifies stereo operation and set-up, while still offering great contrast to Channel A’s dual Depth knobs. Note: For stereo-panning, initially set all Depth knobs for max depth (5:00), then adjust to taste.
- Depth knobs (1A, 2A and B) offer the complete range from dry-only (full counter-clockwise 7:00) to volume swell followed by complete silence, at max depth (full clockwise 5:00),
- Individual channel Volume knobs (Vol A and Vol B) allow matching the bypassed volume at any tremolo depth setting, or can provide significant volume swell over unity gain. Note: The stereo powerglide cannot be used as a simple volume boost with the *Depth knob(s) at minimum* (7:00).



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- Three position Waveform (Brown/Black/Square) Mode toggle switch (global) affects both Speed 1 (yellow LED) and Speed 2 (green LED) at the same time. Brownface mode is deep and swaying. Blackface mode is silky smooth and even. Square-wave mode is full off/on chop at maximum depth.
- The Pan or Sync Mode toggle switch is used **ONLY** for stereo operation with two amps. In the Sync Mode, both Amp 1 and Amp 2 will have their volume rise and fall together. In the Pan Mode, Amp 1 volume will be going up, Amp 2 volume will be going down. As Amp 2 volume begins to go up, Amp 1 will begin to go down.....cross-fading back and forth and back and forth between Amp 1 and Amp 2.....beautiful at any tremolo speed setting.
- The Phase Select toggle switch allows for inverting the output phase of Channel B. This switch makes no audible difference when using the stereo powerglide with one amp. Even in stereo there is not a huge audible difference. However, the Phase Select toggle switch can come in handy for correcting phase problems with two dissimilar amps, in parallel effects loops, and mixing board applications – it's there if you need it.
- The Channel B, Normal / Mute toggle switch allows the choice of *muting* the Channel B output when footswitching Channel B to the bypass mode. This can be useful in creating extra musical drama with the stereo powerglide.
- The Ramp knob allows you to adjust how quickly Speed 1 and Speed 2 *ramp* up or down from one speed setting to the other. (Similar to a Leslie, except you get to set the ramp time.)
- The Expression pedal jack (when in use) bypasses the Speed 1 knob (yellow LED), allowing full Expression pedal control of slowest to fastest speed. Use the Ramp knob as a *damping control* for smooth speed changes even with jerky Expression pedal movements. You may still footswitch to your *pre-set* Speed 2 (green LED) at any time.
- For expression control, please use only the toneczar EB Expression pedal with a ¼" TRS (stereo) cable. Do not plug anything else into the EXP jack as the stereo powerglide is voltage controlled. Do not use any other brand of expression pedal as they will not work.
- For Mono In / Mono Out operation, use only Input jack A (on far right) and Output jack A (on far left).  
The following are **NOT** used for Mono In / Mono Out operation:
  - 1) Input jack B
  - 2) Output jack B
  - 3) Depth knob B
  - 4) Volume knob B
  - 5) Phase Select toggle switch
  - 6) Pan or Sync Mode toggle switch
  - 7) Channel B Normal/Mute toggle switch
  - 8) Channel B Bypass footswitch



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- For Mono In and Stereo Out operation, use Input jack A, and **both** Output jacks A and B. Both Channel footswitches (A and B) are used, along with all toggle switches and knobs. The following is **NOT** used for Mono In / Stereo Out operation:
  - 1) Input jack B
- For Stereo In and Stereo Out operation, **all** jacks, footswitches, toggle switches and knobs are used.
- In stereo setups using two Amps, it's very important to observe proper grounding of the entire rig to prevent ground loop hum. The most important rule is only **one** ground connection to the wall plugs. 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 (either amp, but **NOT** both). A completely isolated pedal-board power supply, (like the Voodoo Lab Pedal Power) 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's possible to have hum/ buzz 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 plug 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/filing the *taller* prong to the same size as the other one.
- Like all toneczar products, the stereo powerglide operates on 18 volt DC. (no batteries) This gives great headroom, with no clipping. A Dunlop 18v regulated wallwart is supplied for the USA, UK, or Europe (choose when ordering). Power jack is the standard 5.5 x 2.1mm. center tip - negative.
- The stereo powerglide can be powered by any version of the Voodoo Lab Pedal Power by using a "Y" power cable and two Pedal Power outlets. Note: Set the Pedal Power DIP switch to *NORMAL*. A custom "Y" power cable can be exchanged for the supplied wallwart. Please specify this (and "Y" cable length) when ordering.
- Extremely quiet operation, even with your amp volume on "10" and your guitar volume on "0" - there will be no ticking or thumping coming from the stereo powerglide.
- Soft start, silent run, *stealth* LFO is the heart of the pedal. This low frequency oscillator (LFO) is capable of very slow to very fast speeds without becoming "glitchy" or mechanical sounding while going slow, or losing depth and "blurring" when going fast. At full slow it takes three seconds to make one cycle and full fast is 20 cycles in one second.



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- No aluminum electrolytic or ceramic caps in the signal path. No internal trim pots, DIP switches, socketed parts, ribbon wire or push-on connectors. Instead, thru-plated, FR-4 epoxy glass pcb, Mil-spec components, hand soldered, hand wired, Scope Tested and Tuned.
- The stereo powerglide 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 Input Impedance: > 500K ohms

Channel B Input Impedance: > 500K ohms

Channel A Output Impedance: < 50K ohms

Channel B Output Impedance: < 50K ohms

LFO speed: 0.30 hz- 20 hz

Current Consumption: 80ma. @ 18v dc

Signal to noise: 90 db

Dimensions: 5 3/4" W x 4" D x 2" H (knobs add 1" to height)

Weight: approximately 2 lbs.

features