

## D-VERB – Digital Reverb Unit Instructions

Version 2016 January 11

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This is the D-VERB (Digital Reverb) kit. This really is an excellent reverb and is also the base of some of the reverb units being built by Hermida Engineering, used by many big name guitarists. The source of the reverb sound is a digital reverb module called Digi-Log™ Reverb by Accutronics. Throughout this document we will refer to this module as the “reverb brick”.

1. Install the resistors on the PCB as shown in the parts layout diagram.
2. Install the capacitors, the 7805 and the TL072 ICs.
3. Solder the off-board wires to the PCB
4. Solder the reverb brick to the PCB, positioning the PCB on the bottom of the PCB. Pin 1 of the brick is in the square hole. The brick is directly below the PCB
5. Solder wiring to the LED short lead to the foot switch.
6. Use double sided foam tape to attach the top of the brick to the top inside of the enclosure.
7. Wire the PCB wires to the pot, DC jack, ground and foot switch.
8. Wire the in/out jacks to ground and to the foot switch.
9. Solder in the battery snap.

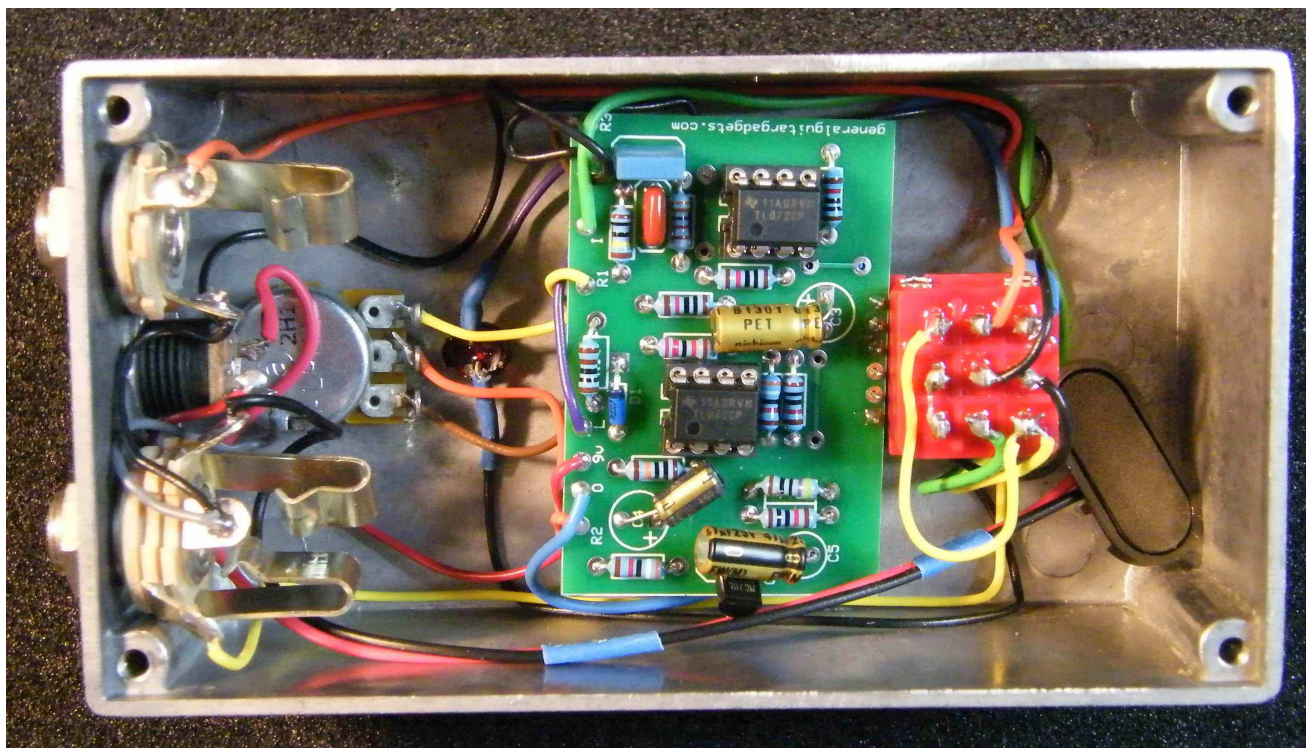
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Here's an inside view of the unit we built to give you a real view of the construction.



Here is a chart of voltages taken at the IC pins. This information can be used to help you find and fix problems if your DVERB doesn't work when you test it. The voltages are approximate, you may not get these exact readings, but they should be somewhere close. Also, the voltage on the surface mount regulator pin closest to the edge of the PCB should be 5v. Check that voltage so you know that the “Brick” is getting 5v power.

<b>Component</b>	<b>Location</b>	<b>Voltage</b>
9 volt power supply		9.4v
IC1	IC Pin 1	8.2v
	IC Pin 2	8.2v
	IC Pin 3	0v



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	IC Pin 4	0v
	IC Pin 5	3.9v
	IC Pin 6	4.4v
	IC Pin 7	8.8v
	IC Pin 8	8.8v
IC2	IC Pin 1	4.4v
	IC Pin 2	4.4v
	IC Pin 3	4.4v
	IC Pin 4	0v
	IC Pin 5	4.4v
	IC Pin 6	4.4v
	IC Pin 7	4.4v
	IC Pin 8	8.8v