



RJ45-1

Replacement Printed Circuit Board for the OEM Line6® Variax™ 300/500/600/700 VDI Connection ("Variax"/MIDI/AES RJ-45 Connector Assembly)

For the "Gen 1" (Original) Variax™ Models (300e/500e/600e/700e), the RJ-45 (EtherCON) Jack in the VDI connector assembly is identical. It is built onto a subassembly (L6# 50-00-0160) that includes a Printed Circuit Board and some filtering components. Other than a few minor modifications, this subassembly has remained unchanged from the first production models.

To replace a worn or damaged EtherCON (RJ-45) jack, this VDI PCB subassembly is unplugged and unscrewed, and a new subassembly is installed. No soldering, and minimal mechanical skills are required. The RJ45-1 subassembly, made by H&H Guitars, is an excellent replacement. This subassembly will replace the OEM Variax™ subassembly with identical functionality and will supply the necessary connections to the Main Printed-Circuit Board (MPCB) in the guitar.



Installation of the RJ45-1 is simple and easy; only minor disassembly and reassembly of the guitar are required. It does, however, require attention to details and involves a fragile (and hard to repair) part of the guitar; the plastic "Shell" (L6# 30-27-0052) that houses the connectors).

The steps involved in replacement are (in general):

- 1) Remove the TRS/VDI Connection Assembly by removing the 4 wood screws.
Be extremely careful with the plastic "Shell" for the connectors; these are often fragile and break around the screw-holes. These plastic pieces are almost impossible to source and replace (we're working on producing a 3D-printed version).
- 2) Unplug the 8-pole JST-PH connector and the ground connector (green wire).
- 3) Unscrew the 2 Pan-head Phillips screws from the outside of the RJ-45 connector and remove the PCB subassembly from the "Shell."
- 4) Place the RJ45-1 into the same orientation, and replace the 2 pan-head Phillips screws through the "Shell" and into the RJ-45 jack. Be careful to tighten properly.
- 5) Plug the 8-pole JST-PH connector and the ground connector (green wire) into the RJ45-1, observing proper orientation (the plugs are polarized).
- 6) Replace the TRS/VDI Connection Assembly into the guitar, and replace the 4 wood screws. Put all 4 screws in place before tightening any. *Again, be extremely careful with the plastic "Shell" for the connectors.*
- 7) Make sure that everything fits into place, and that an EtherCON plug can be fully inserted into (and removed from) the new jack.
- 8) Play!



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