AXON 13-pin Pickup Connector Specification

1. Pinning 13-pin Connector

1	Analog signal e-string (highest frequency)
2	Analog signal B-string
3	Analog signal G-string
4	Analog signal D-string
5	Analog signal A-string
6	Analog signal E-string (lowest Frequency)
7	Analog signal guitar pickup (“normal” magnetic pickup)
8	DC-level for synthesizer volume (wavetable volume)
9	Not connected
10	Down switch signal (switch to GND)
11	Up switch signal (switch to GND)
12	+7 V DC power supply for OP's
13	-7 V DC power supply for OP's
(14)	Shield serves as GND

2. Analog string signals

Source impedance pickup side should be around 100 Ω

- Input impedance of AXON ADC is 20 KΩ
- Maximum voltage swing is +-2.5Vpp

3. Normal guitar pickup signal

- Source impedance Pickup side should be around 100 Ω
- AXON directly connects this signal to his TRS guitar out jack without any additional amplification

4. DC-Level for synthesizer volume

- Source impedance pickup side should be around 100 Ω
- Buffered DC-level from 0-5 V to control synthesizer volume

5. UP/DOWN switch signals

- Pickup UP/Down switches connect these signals via R-C-R T-Network (470 Ω – 10 nF – 470 Ω) to GND

6. +-7V power supplies

- Maximum supply current: 100 mA

7. Pin 14 (shield) of 13pin jack MUST be connected to GND