

Technomad PowerChiton™ Installation and Operation Guide



The PowerChiton™ is a revolutionary new amplifier for use in harsh environments. It is ideal for applications where no equipment-room is available to protect traditional amplifiers.

Because the PowerChiton is intended for permanent outdoor installation, the audio and power connections are internal terminal blocks. Cables pass through the weatherproof housing of the PowerChiton via 'compression fittings'. The PowerChiton operates off of 120vAC power, and has two line-level audio inputs. Standard PowerChitons ship ready to accept balanced line audio signals (2). The PowerChiton can be ordered with optional Ethernet, Twisted-Pair, or RF interfaces. An internal mixer allows volume adjustment of two audio sources.

Audio Connection

NOTE: Wire the audio connections before the power connections. If you have purchased a PowerChiton that already has a ethernet interface or twisted pair receiver, you do not need to install audio connections so proceed to the power connection steps.

To connect the PowerChiton to the audio sources, follow these steps:

- 1) Disconnect the PowerChiton from AC supply before beginning work.
- 2) Remove the two screws securing the lid of the enclosure.
- 3) Open the enclosure.
- 4) Unscrew the audio cord grip (compression fitting) on the bottom of the unit and remove.
- 5) Feed the audio source cable(s) through the cord grip.
- 6) The PowerChiton features a pair of line level audio inputs. You can use either or both. Each has a set of terminal marked 1+ and 1- and 2+ and 2-. Connect the audio cable to either cable in accordance with the polarity of the source cable. If you have two sources, connect the second cable.
- 7) Reinstall the cord grip and tighten securely.

Power Connection

The PowerChiton ships with a standard 6' grounded power cord. This cable can be exchanged or reterminated as needed for your application.

NOTE: DO NOT remove, exchange, or modify the PowerChiton's power cable unless you are qualified to work with 110V AC electrical circuits. All work must be compliant with local electrical codes. Only use 12-gauge, outdoor-grade, three conductor replacement power cable.

- 1) Disconnect the PowerChiton from AC supply before opening.
- 2) Strip ends of 3-conductor power cable to expose .25" of each conductor.
- 2) Remove the two screws securing the lid of the enclosure. (This step is not needed if you have just installed audio connections.
- 3) Open the enclosure.
- 4) Disconnect the 6' power cord from the internal screw-terminals ('Neutral', 'Live', 'Ground').
- 5) Loosen the cord grip (compression fitting) on the end of the unit and pull the 6' power cord from the unit.
- 6) Feed the new power cable through the cord grip and the corresponding hole in the enclosure.
- 7) Attach the new wires to the internal power screw-terminals as follows:

White conductor to 'Neutral' terminal
Black conductor to 'Live' terminal
Green conductor to 'Ground' terminal
(tighten all connections securely)

- 8) Reinstall the cord grip and tighten securely.
- 9) Close the enclosure lid and secure with the two provided screws.

Operation

- 1) The Power Chiton can drive 2 - 8 ohm loudspeakers. It will deliver 1000 continuous watts into this load (500 W per loudspeaker)
- 2) The internal mixer is set at the 2 o'clock position, just past the half-way detent on the control knob. This can be adjusted up and down in you need to adjust output to the amplifier stage.
- 3) Very Important! The Power Chiton is equipped with a "Soft Clipping" indicator on the bottom of the box, between the loudspeaker connections and the strain relief. This LED blinks when the control circuit has begun to limit the signal level to the output stage. This tells you that you are near the limits of the amplifier "head-room".

NOTICE

Installations procedures and specifications are subject to change without notice. Check <http://www.technomad.com/> for technical updates and notices regarding PowerChiton™ and other Technomad products.