



ZETA-THREE USER BULLETIN #7

Power Supply and Grounding Change

March 2, 1989

As of serial number 031604, the Zeta-Three will be shipped with a new power supply and grounding system. Although the power supply change is essentially for manufacturing reasons, it has allowed the adoption of an improved grounding scheme. This in turn provides the system installer with more flexible ground connection options.

Two terminals have been added to the rear panel, labelled *DC Gnd* and *Chassis*:

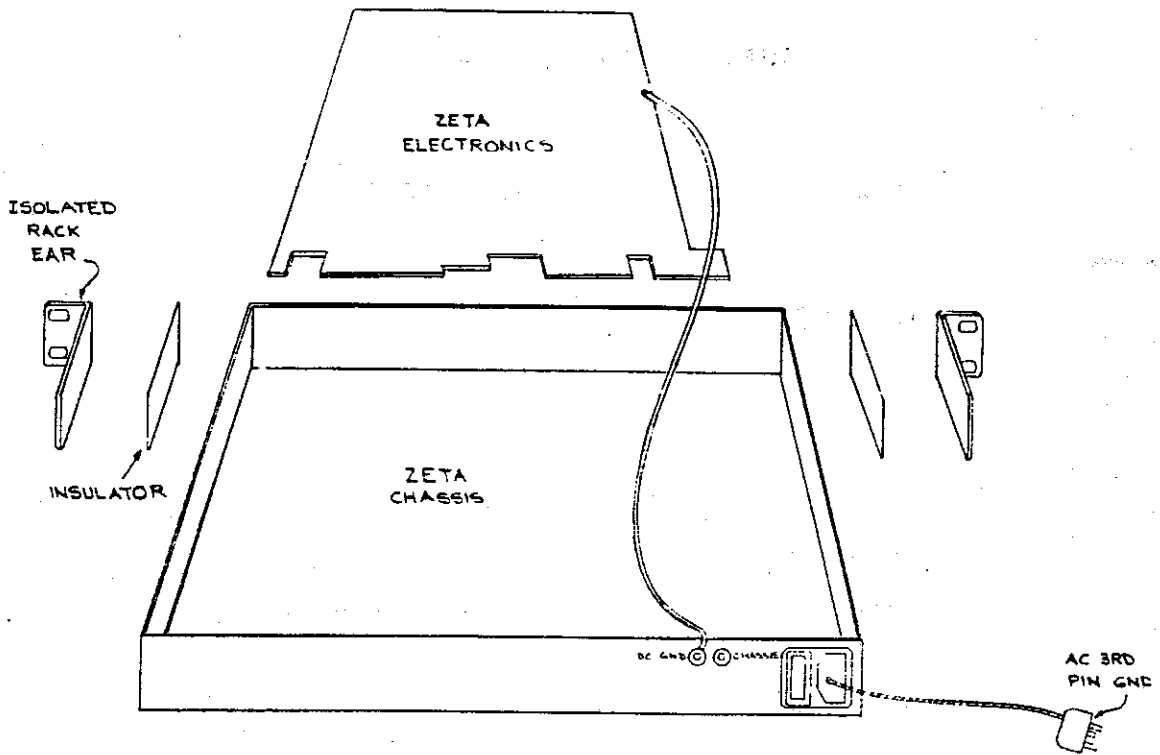
DC Gnd: This is the internal operating ground of the Zeta-Three.

Chassis: This terminal connects directly both to the metal case and to the AC third pin electrical ground.

For installations with no special grounding requirements, the Zeta-Three should be operated as it is shipped from the factory, with the *DC Gnd* and *Chassis* terminals strapped together.

On the other hand, when the Zeta is installed in a studio with a separate central ground, *DC Gnd* may be unstrapped from the *Chassis* terminal, and connected directly to the central ground (see Fig 1).

- NOTES:
1. For the usual safety reasons, the AC third pin electrical ground is **always** connected to the metal case. The rack mounting ears, however, have been isolated from the case, and do **not** provide a path from AC ground to the rack itself.
 2. One side effect of the new supply is that the menu option "Z06 RESOLVE=MAINS" will no longer be supported.
 3. The new supply and grounding system will not be available as a retrofit.



ZETA GROUNDING CONFIGURATIONS:

- ① AC GROUND CONNECTED: DC GND CHASSIS
(AS SHIPPED)
- ② FLOATING GROUND: DC GND CHASSIS
(NOT RECOMMENDED)
- ③ STUDIO GROUND DC GND CHASSIS
└─┬─┘
CABLE TO CENTRAL
CONTROL STUDIO
GROUND

Fig 1.