

CERIATONE TW EXPRESS ALL ACCESS

This is a detailed electronic schematic for a guitar amplifier, likely a Fender-style design. The circuit is divided into several functional sections:

- Power Supply Section (Top Left):** Features a power transformer (P1) with taps for 0 (Neutral), 100, 120, and 230V. It includes a 2A SB 240V mains fuse, a 500 mA HT fuse, and a 1/2 power switch. The power is distributed to the heaters of the 6X4s (H1, H2) and the HT (H3) via a 5V tap (H2) and a 300s (H3) fuse. A pilot light (F1) is connected to the 120V tap.
- Preamp Section (Top Middle):** Utilizes a 6X4s tube (H2) for the first stage. It includes a 15K resistor (Y4) and a 47K resistor (Y3). The output is connected to the grid of the 6X4s (H3) via a 0.01uF 3kV capacitor (Y2).
- Preamp Section (Top Right):** Features a 6X4s tube (H3) for the second stage. It includes a 15K resistor (Y4) and a 47K resistor (Y3). The output is connected to the grid of the 6X4s (H3) via a 0.01uF 3kV capacitor (Y2).
- Preamp Section (Bottom Left):** Includes a 6X4s tube (H2) for the third stage. It features a 15K resistor (Y4) and a 47K resistor (Y3). The output is connected to the grid of the 6X4s (H3) via a 0.01uF 3kV capacitor (Y2).
- Preamp Section (Bottom Middle):** Features a 6X4s tube (H3) for the fourth stage. It includes a 15K resistor (Y4) and a 47K resistor (Y3). The output is connected to the grid of the 6X4s (H3) via a 0.01uF 3kV capacitor (Y2).
- Preamp Section (Bottom Right):** Includes a 6X4s tube (H2) for the fifth stage. It features a 15K resistor (Y4) and a 47K resistor (Y3). The output is connected to the grid of the 6X4s (H3) via a 0.01uF 3kV capacitor (Y2).
- Power Amp Section (Middle):** Utilizes a 6X4s tube (H3) for the power stage. It includes a 15K resistor (Y4) and a 47K resistor (Y3). The output is connected to the grid of the 6X4s (H3) via a 0.01uF 3kV capacitor (Y2).
- Power Amp Section (Bottom):** Features a 6X4s tube (H2) for the power stage. It includes a 15K resistor (Y4) and a 47K resistor (Y3). The output is connected to the grid of the 6X4s (H3) via a 0.01uF 3kV capacitor (Y2).
- Output Section (Bottom Right):** Includes a 6X4s tube (H3) for the output stage. It features a 15K resistor (Y4) and a 47K resistor (Y3). The output is connected to the grid of the 6X4s (H3) via a 0.01uF 3kV capacitor (Y2).

The schematic also shows various control components such as potentiometers (P1, P2), switches (S1, S2, S3, S4, S5), and a 5V relay. The grounding system is complex, with multiple ground points labeled GND A, GND B, and GND C. The overall design is a high-fidelity representation of a classic guitar amplifier circuit.