Yaesu FP-800 AC Power Supply for the FT-890 HF Transceiver

The FP-800 is an external AC power supply which provides 13.8-V DC at up to 20 amperes (intermittently) for the FT-890 HF transceiver. A large, forward-facing loudspeaker is included to enhance reception. Excellent regulation and conservative series-regulator design assure many years of trouble-free operation. A thermally switched cooling fan automatically activates when the temperature of the pass transistors rise, to maintain safe operating temperature during periods of high current demand.

Specifications

Output voltage: 13.8-V DC

Output current: up to 20 A

Duty cycle @ 20 A: 1 minute @ 1.5 A for every 1 minute @ 20 A

Input voltage: 100, 110, 117, 200, 220 or 234-V AC, 50 or 60 Hz

Size (WHD): 240 × 93 × 235 mm

Weight: Approximately 6.9 kg (15 lb)

Max. loudspeaker output: 3 W @ 4 Ω

Installation

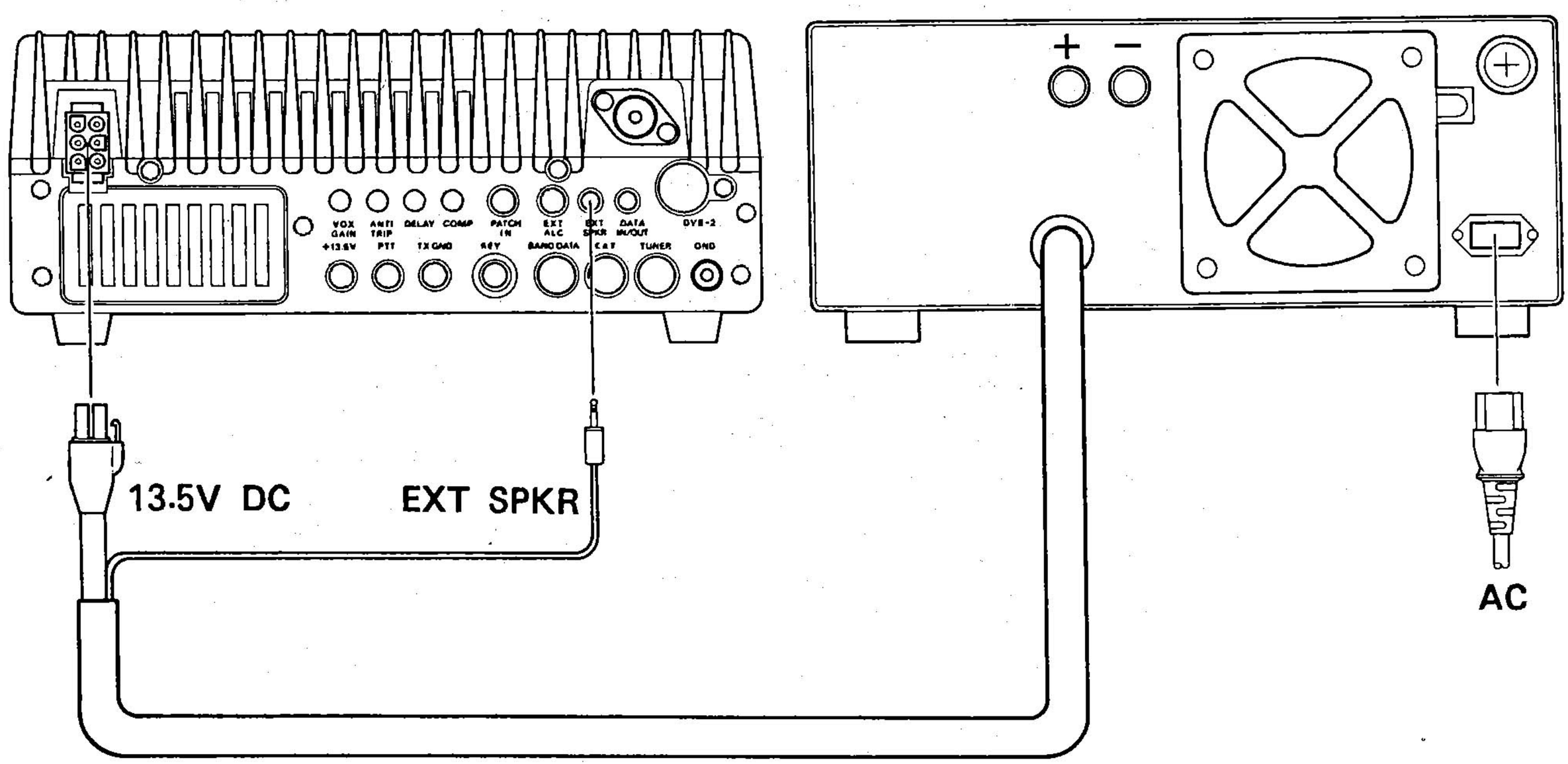
Before connecting the FP-800 to the AC mains, be absolutely certain that the voltage specification on the rear panel matches your mains voltage. The FP-800 is manufactured for use around the world, from a variety of AC voltages, and the power transformer primary must be wired properly, as shown on the reverse side of this page, to prevent damage to the internal circuitry.

Also, be certain to use a fuse of the proper rating. For 100, 110 and 117-V AC, use a 6-A fuse. For 200, 220 and 234-V AC, use a 3-A fuse.

Caution!

Our warranty does not cover damage that may result from improper supply voltage or use of an improper fuse.

❒ After inspecting the voltage label and fuse, refer to the drawing below to connect the DC cable from the FP-800 to the DC input jack on the rear of the transceiver. The loudspeaker plug may be connected to the



desired. Connecting this plug automatically disables the loudspeaker in the FT-890.

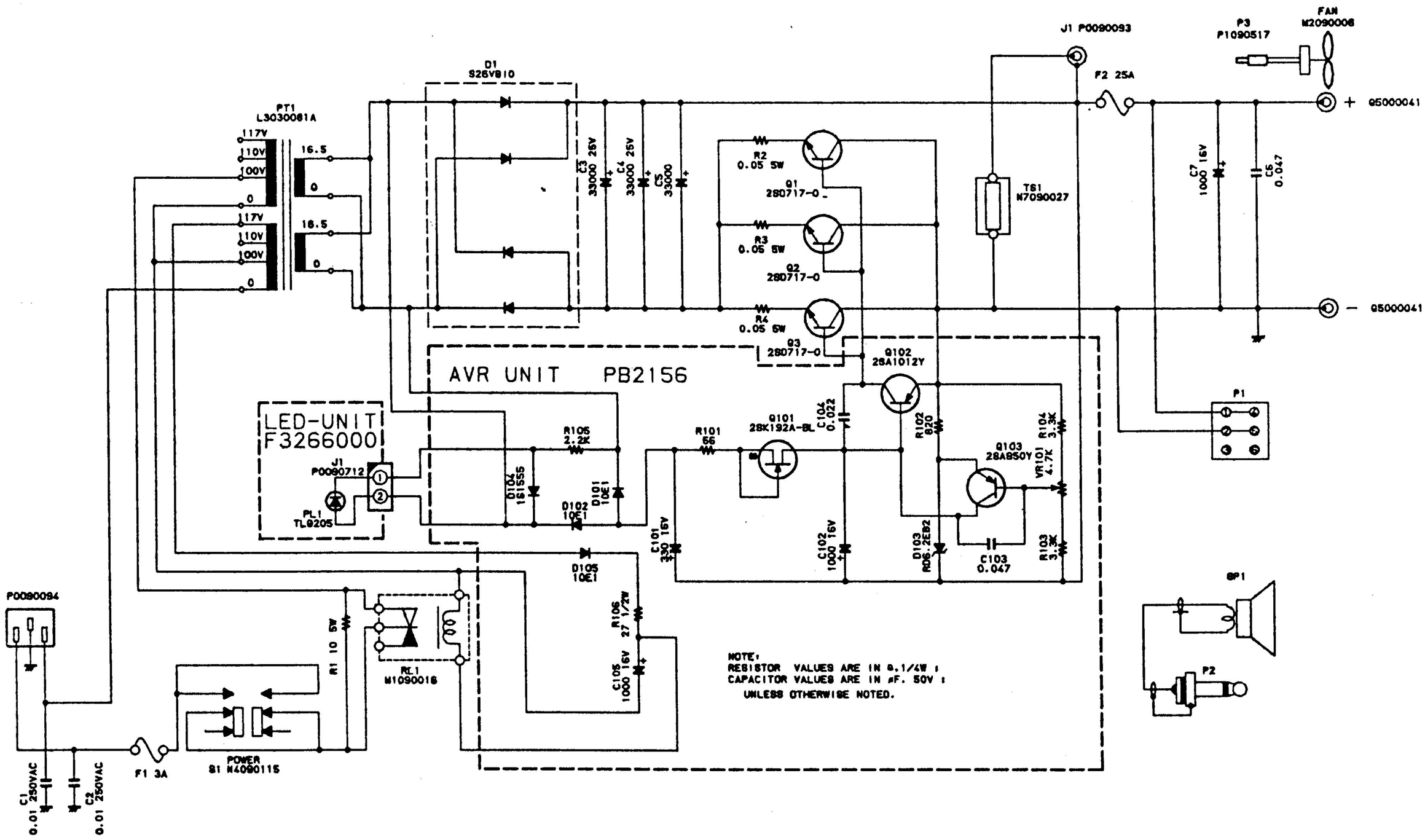
- ❐ On the rear of the FP-800, check to ensure that the fan lead is connected to the **FAN** jack. The voltage at this jack is controlled by a thermal switch on the heatsink inside the supply.
- ❐ Make sure that the **POWER** switches on both the FP-800 and FT-890 are off, then plug the AC cord into the back of the FP-800, and into the wall outlet.
- ❐ Turn the FP-800 **POWER** switch on, and then the FT-890 **POWER** switch. It is best to always turn the power supply on before turning on the transceiver, and turn the transceiver off before turning off the power supply.

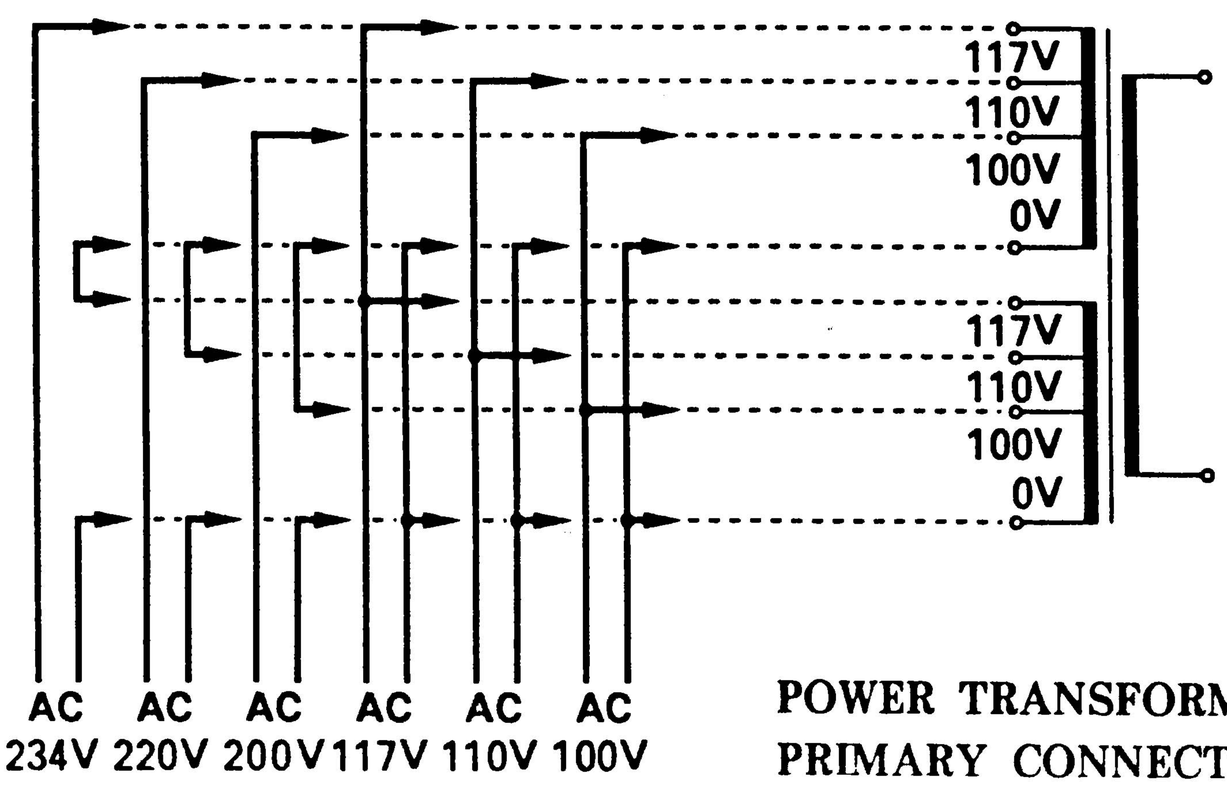
Operating Precautions

- ✘ *Don't turn the FP-800 off while its fan is running: wait for the fan to turn off (when the supply cools).*
- ✘ *Make sure the transceiver has been switched off before switching the FP-800 on or off.*
- ✘ *Avoid transmitting full power FM or RTTY for more than one minute. After one minute at full power, continuous carrier transmission, the power supply should be allowed at least a one-minute rest (while receiving). For longer transmissions, reduce transmitter power output to 50% of maximum.*

Caution!

Our warranty does not cover damage that may result from overloading and overheating caused by exceeding the 20-A maximum output current capacity, or the 20/1.5-A duty cycle (1 minute/1minute).





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