

TEN-TEC MODEL 940 13.8 VDC POWER SUPPLY AND SPEAKER CONSOLE INSTRUCTION MANUAL

GENERAL

The Ten-Tec model 940 speaker console with internal switching power supply provides up to 25 amps current at 13.8 Vdc for powering HF transceivers and other Amateur Radio devices from an input of 115/230 VAC, 50/60 Hz. The internal 4 ohm 5 watt speaker is suitable for every possible communication need, from clean CW operation to well-rounded AM receiver audio.

INSTALLATION AND USE

Model 940 is supplied with an EIA-standard 3 wire AC power cable. Connect this cable to the 3 pin EIA jack on the rear. A slider switch for 115/230 VAC input is located on the side of the case; select appropriate input voltage. The red switch located on the front panel is the ON/OFF power switch. Do not turn power ON until all other connections have been made. A 6 amp fuse is installed in a small compartment under the connection point for the power cable. A spare fuse, inside the same compartment, is also provided.

DC output voltage is available via two rear panel terminals, marked (+) for positive voltage and (-) for negative voltage. Connect appropriate wire to these two rear panel terminals by inserting wire into the hole under the binding post. Tighten post onto wire. Up to 14 gauge wire can be installed directly to the terminals by screwing down the connectors over the wire; heavier gauge wire will require the use of lugs on the wire ends, which can then be attached under the screw terminals. Please note that the DC connectors on the rear panel will accept "banana" type plugs directly into the rear of the jacks. These are not acceptable for high-current applications and no more than 1 amp current draw from the power supply should be used with these type of connectors.

Three RCA-style phono connectors are provided for easy connection of 13.8 Vdc low current drain accessories. A maximum of 1 amp current can be drawn from these three connectors, which are wired together in parallel.

Enclosed with the model 940 is cable assembly #86123, consisting of a stereo phone jack and a strip of two wire black cable. The insulation on one side of the cable is ridged with a flat edge, the other side is smooth and rounded.

On the rear of the chassis are two quick-release, spring loaded terminals. Attach the smooth, rounded side of the cable to the red (+) terminal by pressing the latch down and inserting the end of the cable into the hole. Release the latch, and the spring loaded terminal will hold the wire in place. Repeat the same procedure for the flat ridged side of the cable (-). Connect the phone jack end of the cable to the EXT SPKR jack of your equipment.

The cooling fan in the model 940 will activate at a very low speed as soon as the ON/OFF switch is turned to the ON position. The speed of the cooling fan will increase as load current is increased.

SPECIFICATIONS

Input voltage: 90-132 VAC/180-264 VAC switchable, 50/60 Hz.

Output voltage: 13.8 Vdc

Output current: 25 amps full load

Ripple: maximum 150 mV peak-to-peak at 25 amps full load

Speaker impedance: 4 ohms

Speaker max. power handling: 5 watts

Response: 100-18000 Hz.

Size: 5" H x 7" W x 11 3/16" D (12.7 x 17.8 x 28.4 cm). Depth measurement does not include rear panel connectors. Height does not include feet installed on case bottom.

Weight: 4.55 lbs. (2.07 kg.)

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