



PALOMAR ELECTRONICS CORPORATION

TX-50 SOLID STATE LINEAR AMPLIFIER

INSTRUCTION SHEET

FREQUENCY RANGE	3 MHz to 30 MHz
OUTPUT POWER	Refer to Chart
INPUT POWER	Transmitting-13.6 VDC at 9 amps. Standby-13.6 VDC at 20 milliamps.
DESCRIPTION	Stable Solid State circuitry provides a minimum transmitted power gain of 16 times. No tuning required. Will work on any signal of 1 watt or more. Automatic switching, using RF power from your transceiver-no internal connections are required to your existing equipment. Automatic side band delay. Long life solid state lamp.
TRANSISTORS AND DIODES	(1) 1N4005 or equivalent (1) 1N4001 (1) CD2545 (1) 1N3491R (1) 2N2905-A (1) 1N4148 (1) LED (Light Emitting diode)

INSTALLATION

Connect the amplifier to 12 volt battery using No. 16 wire or larger. **OBSERVE POLARITY**. Positive to red marked wire and negative to black wire (GROUND). Connect both positive and negative leads directly to the battery. Failing to do so may result in a distortion of the transmitted signal and a loss in power output. Make sure all connections are tight or soldered if possible. The majority of all problems experienced are due to improper installation techniques. **REVERSING POLARITY MAY CAUSE DAMAGE TO THE AMPLIFIER**. Install the amplifier where adequate air flow is available to cool it. This amplifier was designed and optimized to operate with 3-4 watts AM drive. Do not use more than 4 watts drive as this will shorten the RF transistors life and severely distort the quality of the transmitted signal.

NOTE

PALOMAR ELECTRONICS CORP., ITS REPRESENTATIVES OR AGENTS WILL NOT BE RESPONSIBLE FOR THE IMPROPER OR ILLEGAL USE OF ITS EQUIPMENT.





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