

# Palomar ELECTRONICS CORPORATION

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## SKIPPER 300 BI-LINEAR AMPLIFIER

### INSTRUCTION SHEET

FREQUENCY RANGE 26 Mhz to 54 Mhz

OUTPUT POWER 275-300 Watts with the "PWR" switch in the "hi" position. 50-100 watts with the "PWR" switch in the "low" position. ~~RF output is rated using~~ a 50-72 ohm load with 3 watts RF drive.

DESCRIPTION Stable grounded grid circuitry provides a minimum transmitted power gain 90 to 100 times throughout the tuning range, will work on any signal of 1 watt or more. Silicon transistor preselector provides an approximate gain of 3 decibels on received signal. Automatic switching using RF power from your transceiver--no internal connections are required to your existing equipment. Self-contained 117 VAC power supply. Illuminated front panel meter indicates relative RF strength of transceiver and linear amplifier. Dependable PI output circuitry for easy tune-up.

TUBE COMPLEMENT (4) 8950

Transistors & Diodes (2) 2N2905-A (1) 1N4002 or equivalent  
(5) 1N4005 or equivalent (3) 1N914

### INSTALLATION

DO NOT BLOCK AIRFLOW at bottom and top of unit. Connect line cord to 117 VAC source. Skipper 300 is protected by a 10 ampere fuse. Connect a good outside ground to grounding stud on rear of unit. Observe above precautions about airflow and cooling. Connect coaxial cable from transmitter to xmitter connector and antenna to antenna connector.

### OPERATION

Turn "PWR switch" ON and turn "MODE" switch to the "STBY" position. Pilot lamp, fan, and tube filaments will be activated. Your transceiver will now be producing its normal output. Switch the "REC AMP" to the "ON" position, immediately you will hear an increase in the received signal. Now turn the "MODE" switch to the "OPERATE" position. Set tune and load knob at 12 o'clock. Wait approximately 30 seconds before depressing mike button. Depress mike button and immediately adjust tune control for maximum meter reading. Now adjust load control for maximum meter reading. NOTE: WHILE TUNING THE AMPLIFIER, DO NOT TRANSMIT FOR MORE THEN 30 SECONDS AT ONE TIME, AS THIS WILL SHORTEN TUBE LIFE CONSIDERABLE. It will be necessary to repeat the adjusting of the tune and load controls several times before maximum meter reading

is obtained. After tune and load have been adjusted for maximum reading, the 1/4" shaft extending from the upper left corner of the rear panel will have to be tuned for maximum reading. After obtaining maximum reading, the amplifier must be overcoupled, this is accomplished by taking the load control and turning clockwise 1/4 inch. If this is not done, the transmitted audio will sound "fuzzy" or distorted.

#### WARRANTY POLICY

PALOMAR ELECTRONICS CORP. WARRANTS THIS EQUIPMENT AGAINST DEFECTS IN MATERIAL OR WORKMANSHIP, EXCEPT FOR TUBES, TRANSISTORS, AND DIODES, UNDER NORMAL SERVICE FOR A PERIOD OF SIX MONTHS FROM DATE OF ORIGINAL PURCHASE. DO NOT SHIP TO THE FACTORY WITHOUT PRIOR AUTHORIZATION. ALL RETURNS FOR REPAIR MUST BE SENT FREIGHT PREPAID. PALOMAR WILL PREPAY THE RETURN FREIGHT. THIS WARRANTY IS LIMITED TO REPAIRING OR REPLACING ONLY THE DEFECTIVE PARTS, AND IS NOT VALID IF THE EQUIPMENT HAS BEEN TAMPERED WITH, MISUSED, OR DAMAGED.

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