INSTRUCTION MANUAL

PAL "BUDDY" Mobile D.C.

PAL ELECTRONICS COMPANY

A Division of PAL Communications Corporation

11820 WESTERN AVENUE - STANTON, CALIFORNIA 90680

714/894-5353

NOTE: This unit is illegal on the 11 meter citizen's band in the U.S.A.

SPECIFICATIONS

CASE SIZE: 2in. high, 6 in. wide, 7 in. long.
WEIGHT: 2.5 lbs.
POWER REQUIRED: 13.8 VDC, floating ground (either POSITIVE or NEGATIVE ground); 1.25 amps at "STBY"; 9 amps Maximum.
FREQUENCY RANGE: 25 to 30 MHZ (27.5 MHZ nominal).
R.F. INPUT: 2 to 6 watts; AM, FM, DSB; to 12 watts P.E.P.-SSB
R.F. OUTPUT: 60 watts nominal; dependent upon driving power and input voltage.
TUBES & TRANSISTORS: 1-8950; 2-DTG-601 or STG-601; 1-2N2905A.
FEATURES: 15 amp internal fuse; illuminated "RF OUTPUT" meter; single switch control; single "TUNE" control. Automatic AM & SSB switching (switches with your transmitter.

INSTALLATION

MOUNTING: Place in a horizontal position, with enough space (½ in. minimum) above and below the case for free airflow. The slots in the cover must be over the tube. If screws or bolts are mounted through the case or cover, be sure they do not touch wires or parts.

WIRING: Use No. 12 stranded wire for lengths less than 6 feet, and No. 10 stranded for longer runs. Connect both positive and negative wires directly to the battery, or to the battery cables at the starter solenoid and engine block. Protect the wiring from hot or moving parts and sharp edges. Use of "crimp-on" terminals is recommended.

RADIO & ANTENNA: Use 50 ohm coaxial cable, such as RG-58 A/U and PL-259 connectors. Connect the radio to "RADIO IN", and the antenna to "ANT OUT". The antenna should have an impedance of 50 ohms, and an SWR of less than 1.5:1.

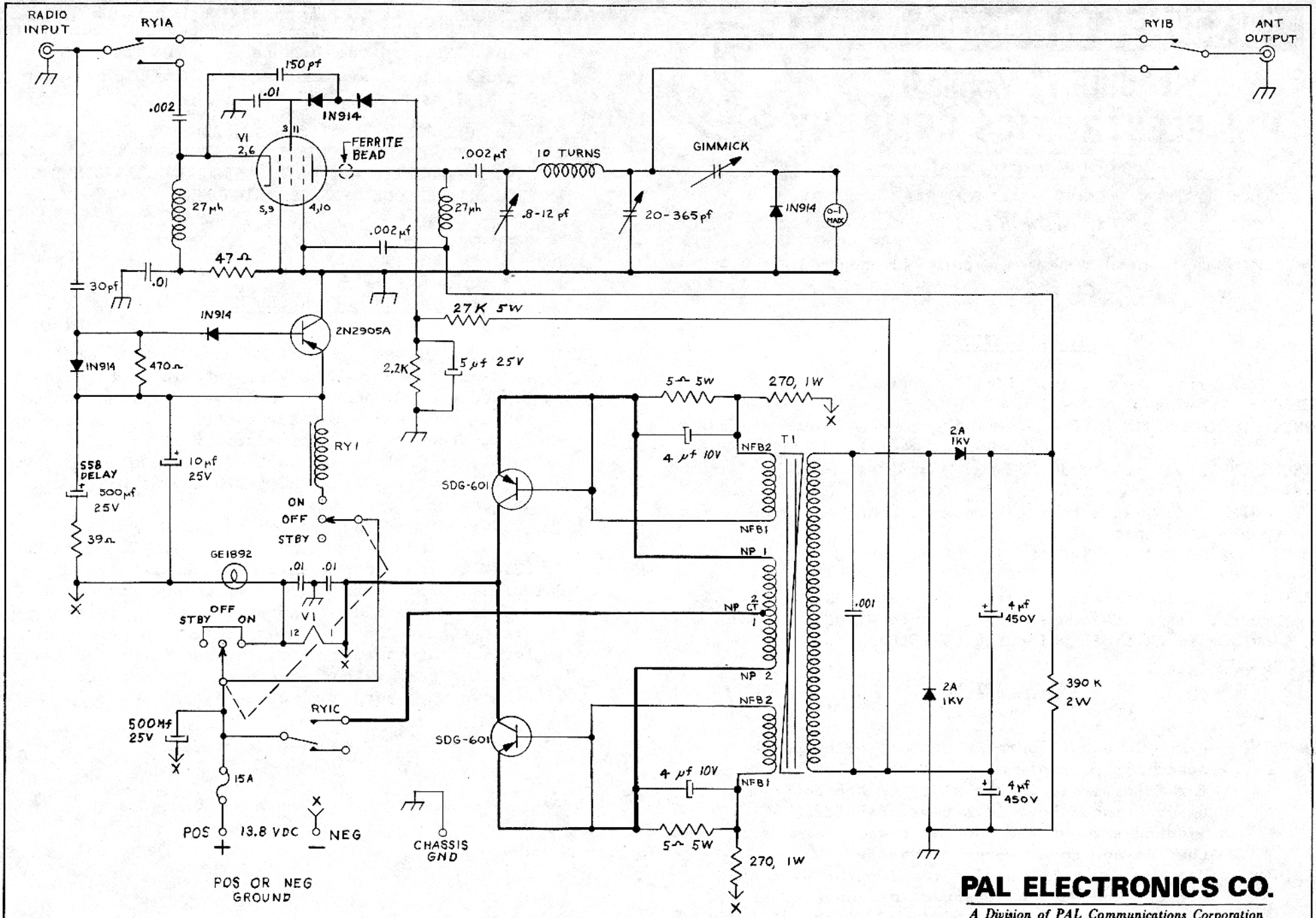
*CAUTION: THE FOLLOWING TESTS/ADJUSTMENTS SHALL BE MADE ONLY BY, OR UNDER THE IMMEDIATE SUPERVISION OF, A PERSON HOLDING A FIRST OR SECOND CLASS COMMERCIAL RADIOTELEPHONE OPERATOR LICENSE.

TUNE-UP PROCEDURE

EXTERNAL CONNECTIONS: Connect 50 Ohm 100 Watt artificial load with through-line r.f. watt meter to antenna connector. Connect 50 Ohm 2 Watt r.f. source to input connector. Connect positive and negative power input studs to respective terminals of 25 amp power supply variable to 15 volts d.c. or to automotive 12 volt battery with charger using No. 10 gauge battery cable.

SWITCH FUNCTIONS: Turn function switch to "STBY". Allow 60 seconds to heat filaments. Turn standby (STBY) switch to transmit (XMT) position.

ADJUSTMENTS: Apply unmodulated r.f. power from 50 Ohm 2 Watt source (10 volts rms). Adjust piston type plate tuning capacitor for maximum output power level. Adjust antenna tuning capacitor for maximum output power. Repeat two previous steps to achieve peak output power level.



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