

INSTRUCTION MANUAL

PAL 750 B - BASE AC
PAL ELECTRONICS CO.
6391 WESTMINSTER AVENUE

P.O. BOX 778

WESTMINSTER, CALIFORNIA 92683

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

SPECIFICATIONS

CASE SIZE: 6 in. high, 14½ in. wide, 14 in. deep

WEIGHT: 37 lbs

POWER REQUIRED: AC house current - 117 to 125 volts

FREQUENCY RANGE: 25 to 30 MHz (driver & antenna coils must be changed slightly to use on other than 27 or 28 MHz)

R.F. INPUT: 2 to 6 watts; AM, FM, SSB & DSB

R.F. OUTPUT: 750 watts "AM" nominal dependant upon driving power and input voltage. 1500 watts SSB

TUBES: 9 G.E. 8950

FEATURES:

1. 25 amp internal fuse
2. RF OUTPUT meter
3. transmit & "STBY" switch
4. on/off switch
5. HVY whisper fan
6. SSB & AM, FM switch
7. pi-network tuning plate
8. receive boost
9. dual power switch

INSTALLATION

MOUNTING: Place in a horizontal position, with enough space (4 in. minimum) around the case for free airflow. If screws or bolts are mounted through the case or cover, be sure they do not touch wire or parts.

WIRING: Ground lug should never be removed from AC cord. Unit must always be grounded!

RADIO & ANTENNA: Use 50 ohm coaxial cable, such as RG-8 or 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 not more than 1.5:1

AMPLIFIER should be installed in line and left off while making an SWR (standing wave ratio) check with your transmitter.

AFTER THIS check out and if SWR is proper - you may tune and SWR should change only slightly.

OPERATION

MODE SWITCH "OFF": The 750B is totally off; your radio operates normally

MODE SWITCH "STBY": The tubes in the 750B are kept warm and the meter light is on; your radio operates normally. (no waiting for warm up)

MODE SWITCH "AM": The 750B automatically boosts AM and FM signals from your radio, also used for tuning up.

MODE SWITCH "SSB": The 750B automatically boosts up SSB and DSB signals from your radio, after being tuned up in AM mode.

MODE RECEIVE SWITCH: Boosts receive when in transmit position

MODE 750 - 150 DUAL POWER SWITCH: CAUTION, ALWAYS USE HIGH OR 750 SIDE FOR TUNING. NEVER TUNE ON LOW SIDE.

PROCEDURE: Always allow the 750B 60 seconds to warm up.

With both your radio and the 750B set to AM, key the mike and adjust the plate and antenna knobs so that the meter needle swings to the max right or use a PAL wattmeter for actual output.

Normally the antenna and plate tuning knobs have a white line and should be at 12 o'clock. Your final tuning will vary these slightly.

TROUBLE SHOOTING

LOW POWER OUTPUT can be caused by bad connections, wires or coax, weak radio or tube failure

FAILURE TO TRANSMIT: If the 750B is dead and the meter light is out, the wires to the power source have disconnected, or the 25 amp fuse has blown. If a second fuse blows, the 750 needs repair.

IF YOU CAN TRANSMIT with the radio alone, the 750 needs repair.

IF TVI DEVELOPS, use a PAL KW TVI filter for best results.

A lot of people do not realize that the TVI starts with the transmitter and is amplified by the amplifier which means it might be necessary to put a TVI filter behind the radio and behind the amplifier.