

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

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 re-
pair.

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.

