



PAL ELECTRONICS CO.

A Division of PAL Communications Corporation

11820 WESTERN AVENUE
STANTON, CALIFORNIA 90680

PAL 351 BOX - BASE AC
B-LINEAR RECEIVE

INSTRUCTION MANUAL

PAL 351 BDX - BASE AC

PAL ELECTRONICS CO.

11820 WESTERN AVENUE • STANTON, CALIFORNIA 90680
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: 4" high, 11" wide, 10" deep. WEIGHT: 17 lbs.

POWER REQUIRED: 117 volts AC house current.

FREQUENCY RANGE: 21 to 28 MHZ (driver & antenna coils must be changed to use on other than 27 or 28 MHZ).

R.F. DRIVE INPUT: 2 to 6 watts: AM, FM, SSB, & DSB - to accept up to 15 watts of AM drive, driver control right rear of the 8950 tube can be readjusted to clear audio and accept drive.

R.F. OUTPUT: 300 watts "AM" nominal dependant upon driving power and input voltage. 600 watts SSB.

FEATURES:

1. DUAL POWER HI & LO.
2. AUTOMATIC SSB & AM SWITCHING (SWITCHES WITH YOUR TRANSCEIVER).
3. RECEIVE BOOST - 6 to 20 S UNITS.
4. LIGHTED RF OUTPUT METER.
5. 4-G.E. 8950 TUBES.
6. 10 AMP INTERNAL FUSE.
7. TRANSMIT & STBY SWITCH.

INSTALLATION

MOUNTING: Place in a horizontal position, with enough space (2 in. minimum) around the case for free air flow. 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 or warranty will be void!

RADIO & ANTENNA: Use 50 ohm coaxial cable, such as RG-8 AU or RG-58 A/U. Connect the radio to "RADIO IN" and the antenna to "ANT OUT". The antenna should have 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 transmitter.

AFTER THIS check out and if SWR is proper, you may turn on and tune on the HI side only! Always allow the 351BDX 60 seconds to warm up. With both your radio and the 351BDX set to AM, key the mike and adjust the plate and antenna knobs so that the meter needle swings to the maximum right. Use of PAL WATTMETER for actual output & SWR. Normally the antenna & plate tuning knobs have a white line and should be at approximately 12 o'clock.

SWITCH OFF: The 351BDX is totally off.

SWITCH STBY: (ON switch ON). The tubes in the 351BDX are kept warm and the meter light is on. Your radio operates normally. (No waiting for warm up).

HI-LO DUAL POWER SWITCH: Always load amplifier in HI position Loading in LO position will void warranty! HI allows full power out and LO cuts power to about half.

RECEIVE SWITCH: Boosts receive when in transmit position. (Varies from 6 to 20 S units on different radios).

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.