



**PAL ELECTRONICS CO.**  
 A Division of PAL Communications Corporation  
 11820 WESTERN AVENUE  
 STANTON, CALIFORNIA 90680  
 PAL 380 MDX — MOBILE DC  
 BI-LINEAR RECEIVE

# INSTRUCTION MANUAL

PAL 350 MDX - MOBILE DC

## 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:** 10 lbs

**POWER REQUIRED:** 13.8 VDC, negative ground, (positive ground by special order); 4.25 amp draw at "STBY"; 48 amps maximum at "AM" keyed.

**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 & 50 AMP INTERNAL FUSES.
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 wires or parts. **ANGLE BRACKETS** can be used for mobile mounting (Not furnished).

**WIRING:** Use 6 guage stranded. Hot & ground must be to battery terminals. More than 6' will lower power slightly,

**RADIO & ANTENNA:** Use 50 ohm coaxial cable, such as RG-8 A/U 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 transceiver.

**AFTER THIS** check out and if SWR is proper - you may turn on and tune on the HI side only! Always allow the 350MDX 60 seconds to warm up after turning on. With both your radio and the 350MDX set to "AM" key mike and adjust the plate and antenna knobs so that the meter needle swings to the furthest point. Use a PAL WATTMETER for actual output and SWR. Normally the antenna and plate tuning knobs have a white line and should be at approximately 12 o'clock.

Requires minimum 4.5 amp alternator or generator and 70 amp battery.

**SWITCH OFF:** The 350MDX is totally off.

**SWITCH "STBY":** (ON switch ON) The tubes in the 350MDX 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.

**REMOTE CONTROL** is done simplest by removing on and off switch and adding 12 guage wire and installing switch to dash etc.

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

"DO YOURSELF A FAVOR!!! USE A PAL 2 VOLT BATTERY KICKER

SO THAT YOU WILL HAVE 14 VOLTS TO DRAW FROM!!!