INSTRUCTION MANUAL

PAL 200 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: 3" high, 8" wide, 9" long. WEIGHT: 8 lbs.

POWER REQUIRED: 13.8 VDC, negative ground, (positive ground by special order); 2.75 amp draw at "STBY"; 33 amps maximum at "AM" keyed. 23 amps SSB peak.

FREQUENCY RANGE: 25 to 30 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 nearest the 12JB6 tube can be readjusted to clear audio and accept drive.

R.F. OUTPUT: 200 watts "AM" nominal dependant upon driving power and input voltage. 400 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. 1-12JB6; 2-GE 8950
6. 50 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 airflow. 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 8 gauge 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 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 your transmitter.

AFTER THIS check out and if SWR is proper - you may turn on and tune on the Hi side only! Always allow the 200MDX 60 seconds to warm up after turning on.
With both your radio and the 200MDX set to "AM", key the mike and adjust the plate and antenna knobs so that the meter needle swings to the furthest point or use a PAL WATTMETER for actual output & SWR. Normally the antenna and plate tuning knobs have a white line and should be at approximately 12 o'clock.

Requires minimum 35 amp. alternator or gen. & 70 amp battery.

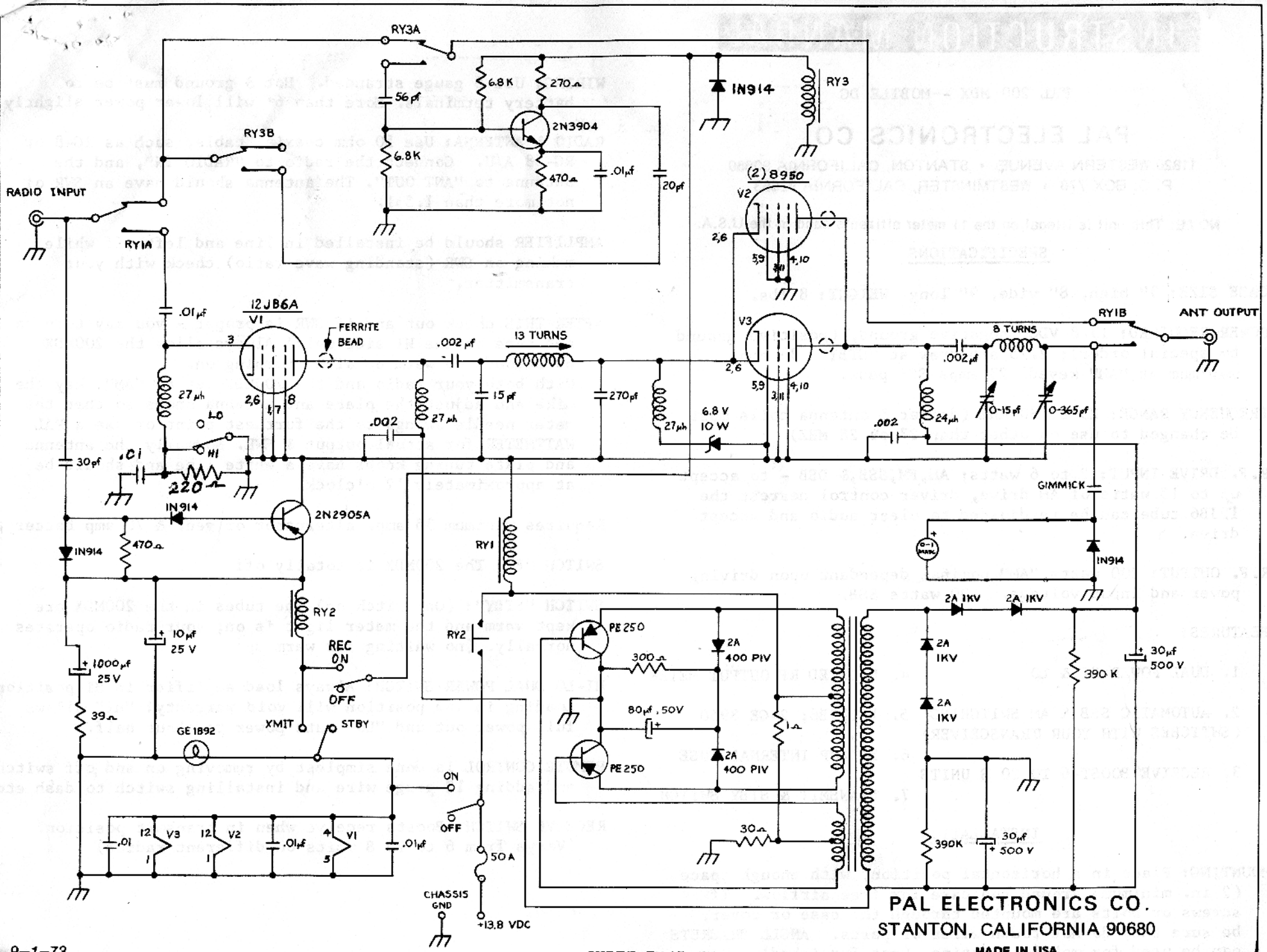
SWITCH OFF: The 200MDX is totally off

SWITCH "STBY": (On switch on) The tubes in the 200MDX 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 low 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 gauge wire and installing switch to dash etc.

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



PAL ELECTRONICS CO.
STANTON, CALIFORNIA 90680
MADE IN USA

9-1-73

CHIEF ENGINEER-R. F. STEELE

PAL 200 MDX MOBILE DC