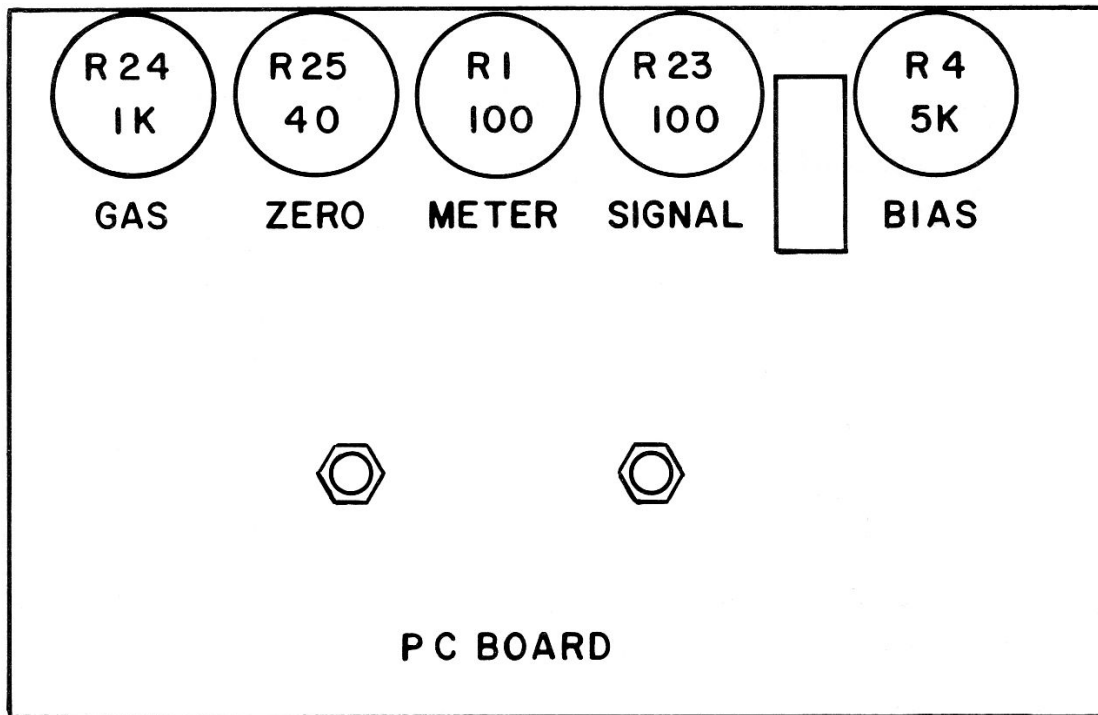


MERCURY 2000 CALIBRATION

CALIBRATION



1. PRELIMINARY SET UP:

- a) Plug line cord into 117 Volt A.C. line.
- b) Set all levers to K.
- c) Turn LOAD Control to zero (0).

2. ZERO CAL.

- a) Set FUNCTION Switch to Gm-Em.
- b) Rotate LOAD Control fully clockwise to 100. Meter indication should remain at zero.
- c) If pointer does not remain at zero, adjust 40 Ohm Zero-Cal Control R-25 for a zero (0) reading on the meter. (See figure above.)
- d) Rotate the LOAD Control from 100 back to zero (0). If Zero-Cal Control has been properly set, the needle should stay on zero (0).

3. METER SENSITIVITY CAL.

- a) Set FUNCTION Switch to Gm-Em.
- b) Place a 500 ma. rectifier (silicon or selenium type rated at 100 volts minimum) with negative terminal to pin 5 of socket 4, and positive (K) terminal to pin 8 of socket 4.

- c) Set Lever 5 to position G; Lever 11 to P.
- d) Rotate LOAD Control to 50 and adjust 100 Ohm Meter Sensitivity Cal Control R-1 for a meter reading of exactly full scale. Return LOAD Control to zero, Levers 5 and 11 to K, and remove diode.

4. GAS CAL.

- a) Set FUNCTION Switch to GAS GRID LEAKAGE.
- b) Insert a jumper wire into pins 5 and 8 of socket 4.
- c) Set Lever 5 to position G.
- d) Adjust 1000 Ohm Gas Cal Control R-24 for a meter reading of 17,500 Micromhos on Gm scale.
- e) Return Lever 5 to position K and move Lever 3 to position G. The pointer will hardly move and should stay in the Green (O.K.) zone of lower scale marked "GAS." If the reading is in the Red (Bad) area, replace V1, 6AT6 tube.

Return Lever 3 to position K and remove jumper.

5. SIGNAL CAL.

- a) Set FUNCTION Switch to Gm-Em.
- b) Using a good 6BA6 tube with a rated Gm of 4300 do the following:
 - 1) Set SELECTOR to D.
 - 2) Set LOAD to 80.
 - 3) Set Lever 1 to Position G.
 - 4) Set Levers 5 and 6 to position P.
- c) Insert the 6BA6 tube into socket 8 and allow tube to warm up.
- d) Adjust 100 Ohm Signal Cal. Control R-23 for a reading of 4200 to 4300 on the Gm Lo-scale.
- e) With Lever 1 at position G and Levers 5 and 6 at position P, set Lever 11 to position G and adjust 5000 Ohm Bias Cal. Control R-4 for a reading of 1000 on the Gm Lo-scale.

6. RECHECK

Set Lever 11 back to position K. The meter should read 4200 to 4300 on the Gm Lo-scale. If not, recalibrate R-23 and repeat steps 5d and 5e until both controls are adjusted.

The Model 2000 is now calibrated.