

SENCORE TC28 Hybrider Calibration Procedure

There are four calibration controls on the printed circuit board in the TC28. The first adjustment pertains to the transistor test portion. The remaining three adjustments have to do only with the tube test functions. Some of the calibration adjustments interact and for this reason the following adjustment procedure must be followed in order:

1. To begin the calibration procedure, remove the TC28 from its cabinet and, with the unit in its normal operating position, adjust the mechanical-zero adjust on the meter for a "0" indication.
2. Plug in the unit and turn the TUBES/TRANSISTORS Function switch to the NPN LEAKAGE position. Connect the positive terminal of a DC milliammeter to the red test lead. Connect a 2K ohm variable resistor between the negative terminal of the meter and the yellow test lead. Press TEST button No. 1 and adjust the external resistor until the external meter indicates 3.0mA. Adjust R101, the Leakage Cal. Control, for a full-scale indication on the TC28 meter.
3. Insert the calibration module into socket number one and make the following setup on the front panel selectors:

A	B	C	D
All Up	1	D	4
4. Set the TUBES/TRANSISTORS Function switch to SHORTS and adjust the meter to zero with the front panel METER ZERO control.
5. Switch to the GRID-LEAKAGE position on the function switch and adjust R132, the Grid Leakage Cal control until the meter reads between the "?" and BAD on the GRID LEAKAGE scale on the meter.
6. Switch back to SHORTS and recheck the meter zero. Adjust front panel METER ZERO control if necessary.
7. Repeat steps 4 and 5 as required to achieve continuity.
8. Change the setting of the SETUP or "D" switch from position 4 to position 3.
9. Set the TUBES/TRANSISTORS Function switch to EMISSION and adjust R103, the Emission Cal. Control until the meter indicates "?" On the EMISSION/GAIN scale of the meter.
10. Switch back to the SHORTS position and recheck the meter zero. Adjust front panel METER ZERO control if necessary.
11. Repeat steps 9 and 10 as required to achieve continuity.
12. Change the setting of the SETUP or "D" switch from position 3 to position 5.
13. With the TUBES/TRANSISTORS Function switch in the SHORTS position, adjust R105, the Short Cal. Control, so that the meter indicates on the line between GOOD and "?" on the GRID LEAKAGE-SHORTS scale of the meter.
14. Change the setting of the SETUP or "D" switch from position 5 to position 7 and observe that the meter indicates zero. Adjust the front panel METER ZERO if required.
15. Repeat steps 11 through 13 as required to achieve continuity.

