

1. Remove the guts from the case.
2. Inspect each wire leading to each tube socket terminal. Look for broken wires at each socket terminal, and inspect for any wires that may be shorting to other wires/terminals or shorting to the chassis.
3. Inspect the AC line cord and top cap wire, and replace if necessary.
4. Check that the meter needle is indexing at the far-left line on the meter with power off, and adjust face set screw accordingly.
5. Check every resistor, and replace any that are out of tolerance. Most of the resistors are silver-band 10% tolerance, and a few (such as the 10-Meg resistor [Brn-Blk-Blu]) are 5% tolerance. Replace as necessary. Pay special attention to the 10-meg resistors and also the load resistors under Switch "B". Since most of the load resistors are silver-banded 10% tolerance, a natural variation in Emission test scores is normal and acceptable.
6. Replace the 0.1 [code=104] cap that is integral to the Shorts circuit. It is commonly defective.
7. Replace the 20mf electrolytic cap.
8. The remaining three caps are disc-style 0.01mf [code=103], and seldom defective. Replace only if defective. Notice that Sencore specifies that two of those 0.01mf caps must be 10% tolerance.
9. Check the internal 12AU7A tube with another tester, replace if weak, shorted, or leaky.
10. Make sure each rotary switch position has good continuity, and carefully clean as necessary.
11. Power on unit, and check each Filament voltage position for proper voltages. If any position does not register, you either a problem with the "A" Filament switch, or an open transformer winding.
12. Put case back together - verify all wires are properly dressed.

Sencore TC130 Parts
CAPS

Reference	Sort	Description	
C1, C4	.01	.01 $\mu\text{f} \pm 10\%$ 200V	
C2	20	20 μf 70V (v1)	
C3	.01	.01 μf 600V	
C5	.1	.1 μf 200V	

RESISTORS

Ref	Sort	Description	COLORS
R2	220	220 (B)	RED-RED-BRN
R3	220	220 (B)	RED-RED-BRN
R1	300	300 ohm 10W tapped	
R4	680	580/680	BLUE-GRY-BRN
R16	2200	2.2k (meter)	RED-RED-RED
R8/3	3300	3.3k ("D" sw)	OR-OR-RED
R11,R12	6000	6K potentiometer (zer/)	
R6	8200	8.2K	GRY-RED-RED
R5	10000	10K	BRN-BLK-OR
R13	10000	10K	BRN-BLK-OR
R7	22000	22K	RED-RED-OR
R9	82000	82K(neon)	GRY-RED-OR
R10	120000	120K (v1)	BRN-RED-YEL
R17	5600000	5.6M 5%	GRN-BLU-GRN-GOLD
R18	8200000	8.2M (neon)	GRY-RED-GRN
R15,R14	10000000	10 meg. ½ W ± 5% (V1)	BRN-BLK-BLU-GOLD

Resistors (by Ref)

Ref	Sort	Description	COLORS
R1	300	300 ohm 10W tapped	
R2	220	220 (B)	RED-RED-BRN
R3	220	220 (B)	RED-RED-BRN
R4	680	580/680	BLUE-GRY-BRN
R5	10000	10K	BRN-BLK-OR
R6	8200	8.2K	GRY-RED-RED
R7	22000	22K	RED-RED-OR
R8/3	3300	3.3k ("D" sw)	OR-OR-RED
R9	82000	82K(neon)	GRY-RED-OR
R10	120000	120K (v1)	BRN-RED-YEL
R11,R12	6000	6K potentiometer (zer/)	
R13	10000	10K	BRN-BLK-OR
R14,R15	10000000	10 meg. ½ W ± 5% (V1)	BRN-BLK-BLU-GOLD
R16	2200	2.2k (meter)	RED-RED-RED
R17	5600000	5.6M 5%	GRN-BLU-GRN-GOLD
R18	8200000	8.2M (neon)	GRY-RED-GRN