

# Who's Afraid of an EABC80? It's just a 6T8!

- A Modest Attempt to Make the European Radio a Bit Less Intimidating



# Pan-Euro 5

- The US “All-American 5” is well-known. Less so is what we might dub the “Pan-Euro 5” of the piano-key table models of the post-WW2 era:
- 12SA7       12SK7       12SQ7       50L6       35Z5
- ECC85    ECH81    EF89       EABC80    EL84
- 6AQ8     6AJ8     6DA6       6T8       6BQ5
- The 5 listed above line up like soldiers across the back edge of a large majority of mid-'50s sets.

## Variants on the “P-E 5”:

- UCC85      UCH81      UF89      UABC80      UL84  
26AQ8                      12DA6                      45B5

Series-string “AC-DC” in Europe too! “U” tubes draw .1 NOT .15 amps.

EB92	EF89	EF89	EABC80	EL41	EZ80
6AB4	6DA6	6DA6	6T8	**	6V4

\*\* “40” series is 8-pin min with glass bump on side as locator



# No piano keys?

- Many large table models in the years just before and just after WW2, like the '42 Philips below, had a different lineup,
- Like ECH3, ECF1, EBL1, AZ1, No FM, a rotary-switch band selector, and the side-connecting eight-terminal “1-9” number on the tubes—resembling regular-sized, or often, shrunken versions of '30s STs.



# Just Two More Basing Styles

- 11-19 sequence—resemble 6H6s on major steroids, or modern "GA" bulbs on double-size octal bases (Lorenz below)
- 21-29 sequence—mercifully LOCTAL physically interchangeable with US types (Czech 380 below)





# What's this A, F, L business?

- A single signal diode
- B double “ ”
- C triode
- F RF pentode
- H hexode/heptode
- K heptode/hexode
- L “endpentode”
- M “magisches Auge”
- Y single diode rectifier
- Z double “ ”

Combo tubes?

ECC85 = 6AQ8

ECC83 = 12AX7

ECL86 = 6GW8

ECHxx Euro converter resembles 6K8

that first letter?

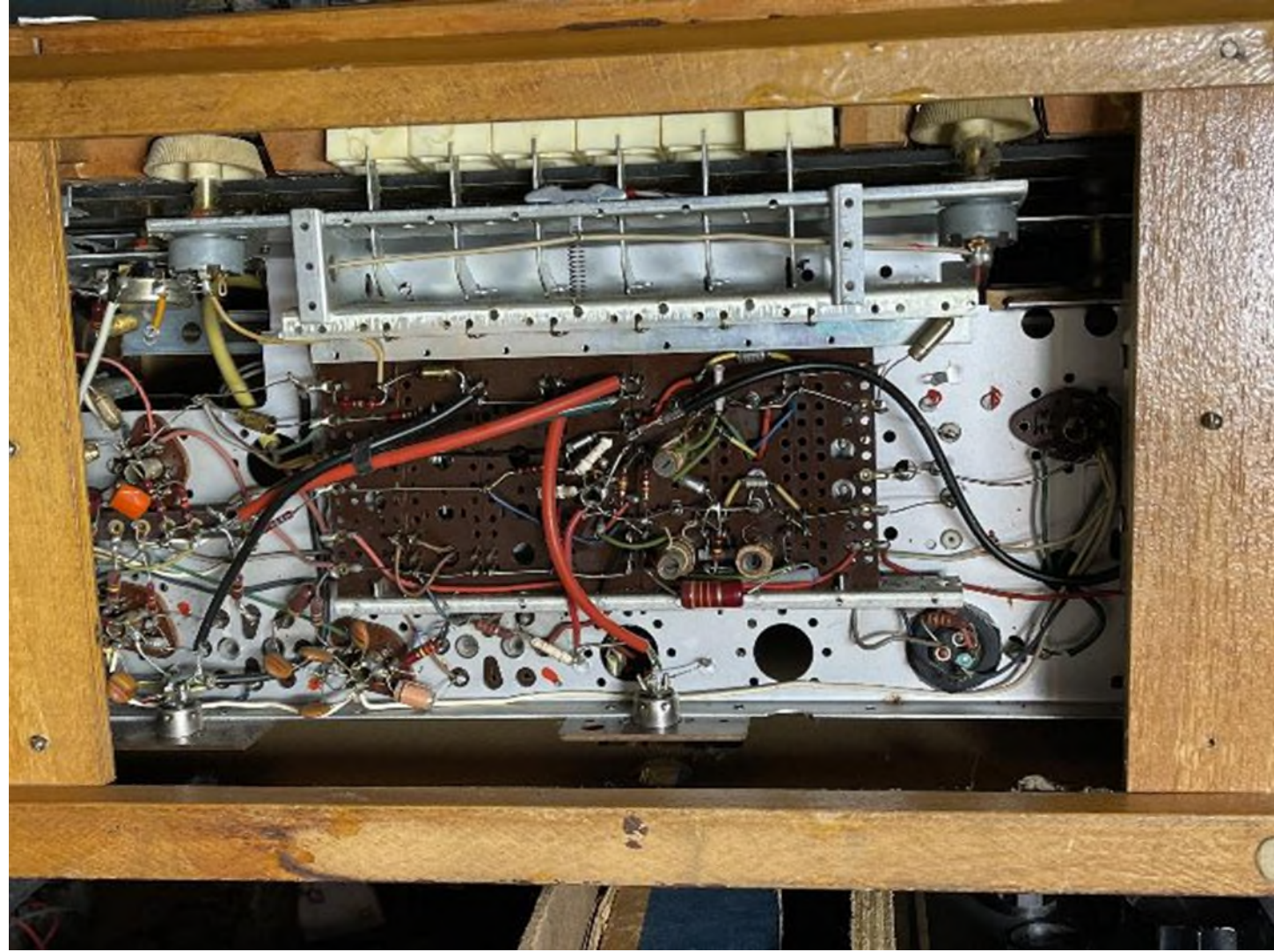
A= 4 volt (from our 2.5v era)

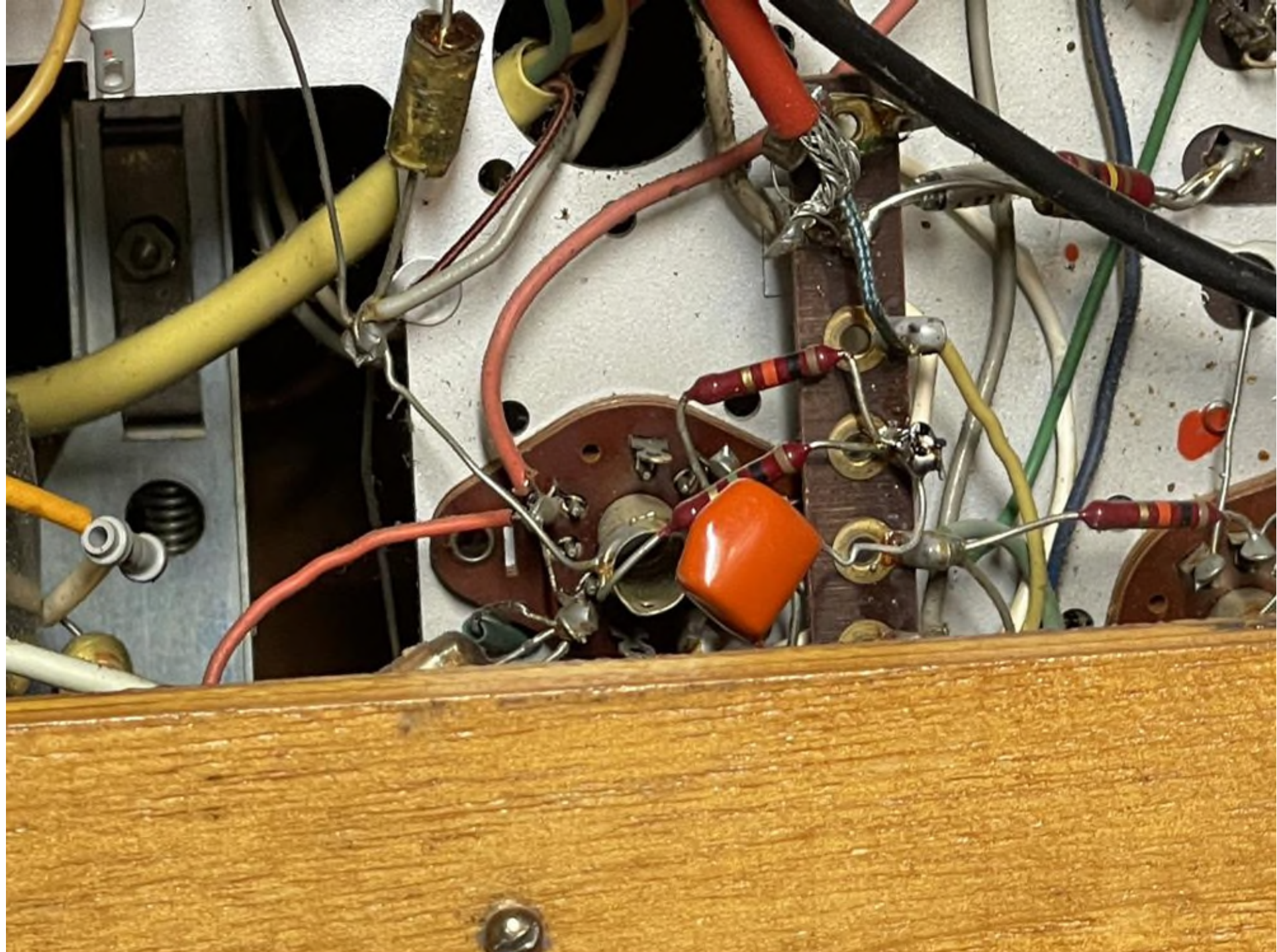
E = 6.3

U= .1 amp at whatever voltage

# OK, let's get into the set . . .

- Pull the bottom access cover—with luck you'll see plenty
- Check the B+
- Find the 6BQ5 or equiv and check all voltages
- REPLACE the coup cap from the 1<sup>st</sup> audio (EABC80 again) even if ...
- Play the piano keys
- “Disturb” the circuits





# Still ain't playing?

- Got antenna? Got cold tubes?
- LO for the LO (Listen Out for the Local Oscillator)

Remember---

slow horses and even very weak tubes still usually reach their destination

- “totally recap!” is a double-edged sword.
- Adventurous realignment may end in DISalignment
- Piano keys (and rotary controls) often require patience to clean and to loosen up



