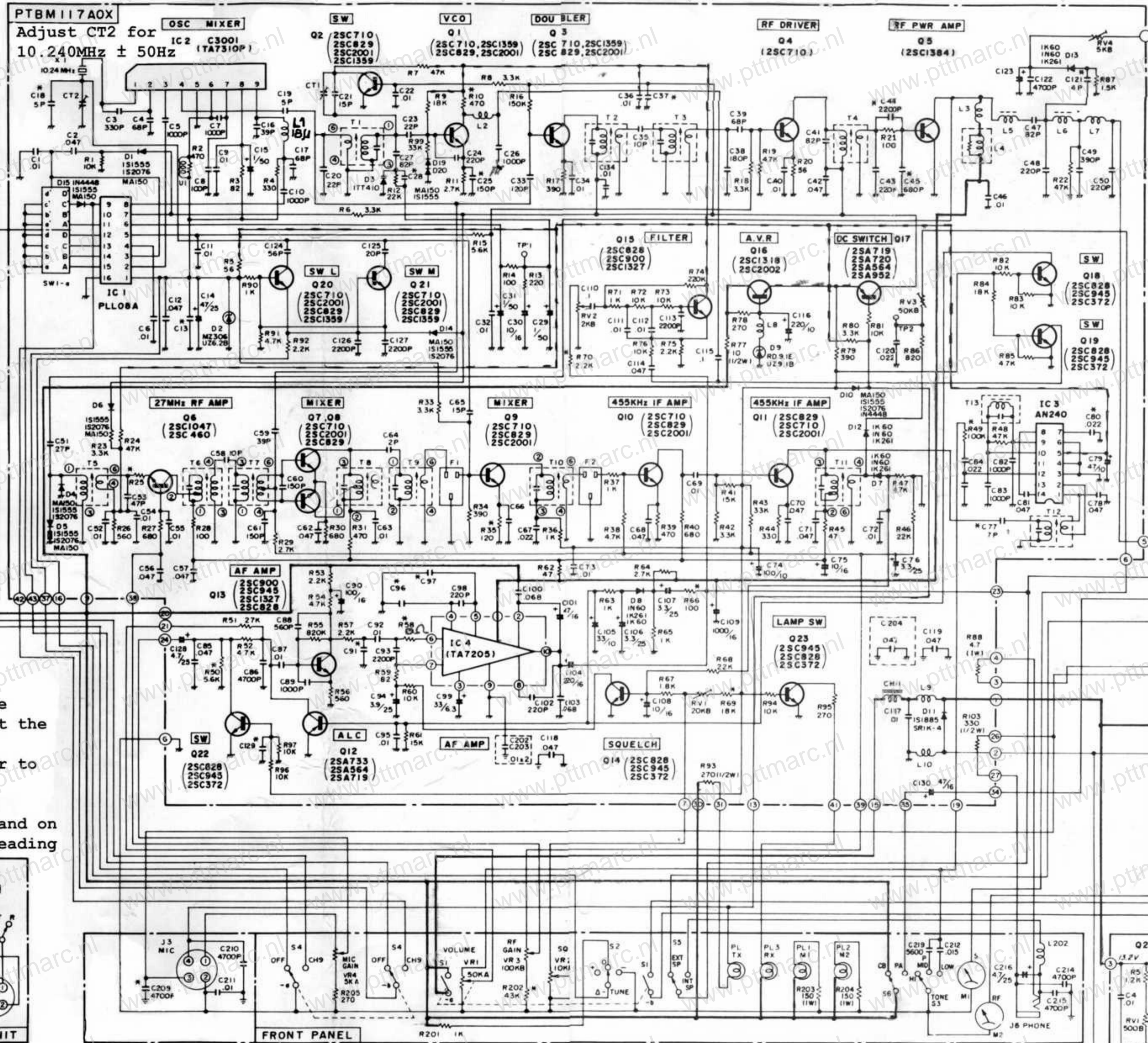


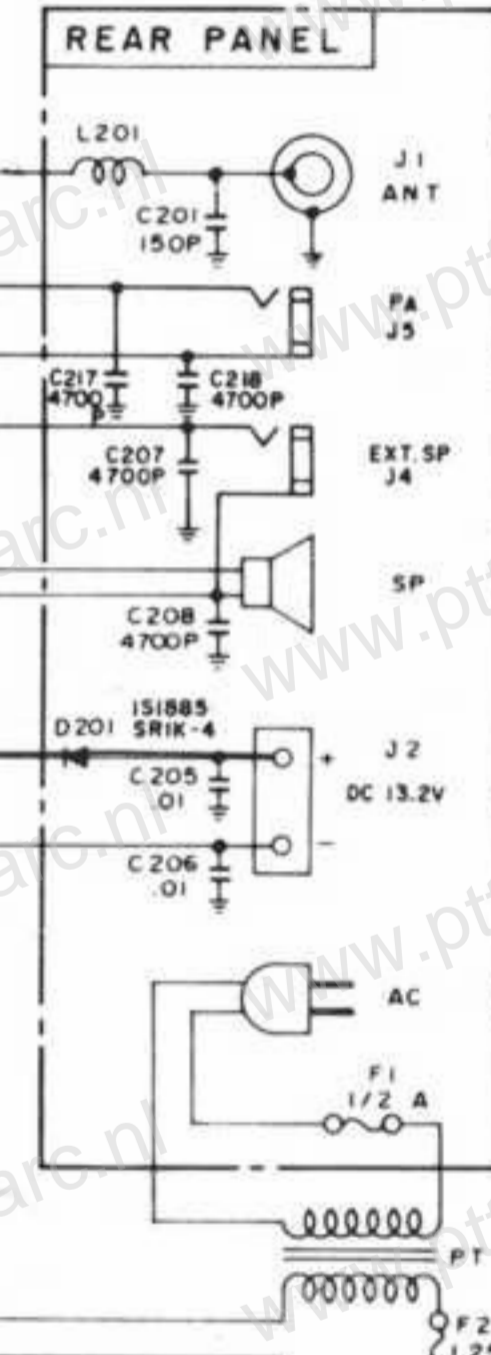
This is a 22 Channels 0.5 Watt FM Tranciever.



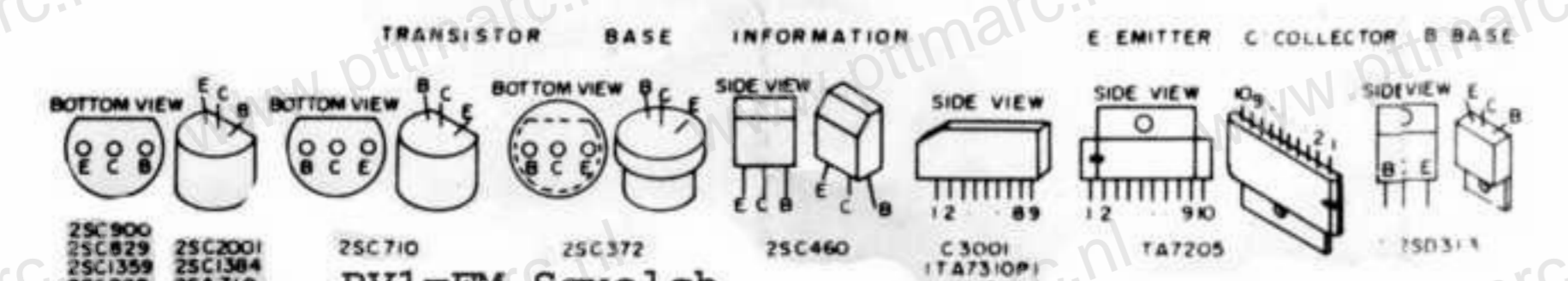
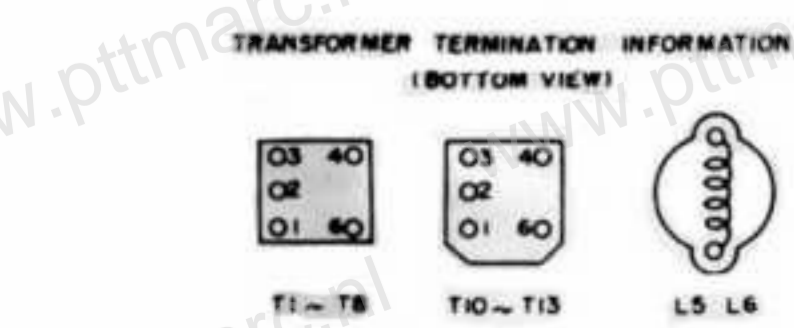
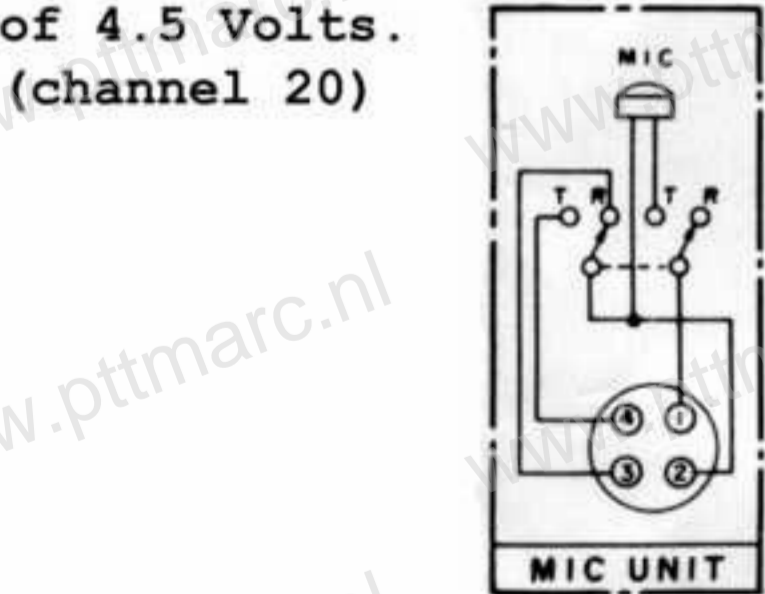
NOTE
 Δ VOLTS AT TRANSMIT CONDITION
 ALL VOLTAGES MEASURED FROM PC BOARD
 GND WITH D.C. VTVM AT NO SIGNAL
 (AT 13.8V POWER SUPPLY) IF MEASUREMENT
 VALUES OBTAINED ARE IN
 EXCESS OF 20% OF VALUES SHOWN
 THEN REASON FOR DIFFERENCE SHOULD
 BE CORRECTED
 + CHASSIS GND * PC BOARD GND
 # VARIABLE

To change this into 40 Channels
 and 2 Watt change the next.

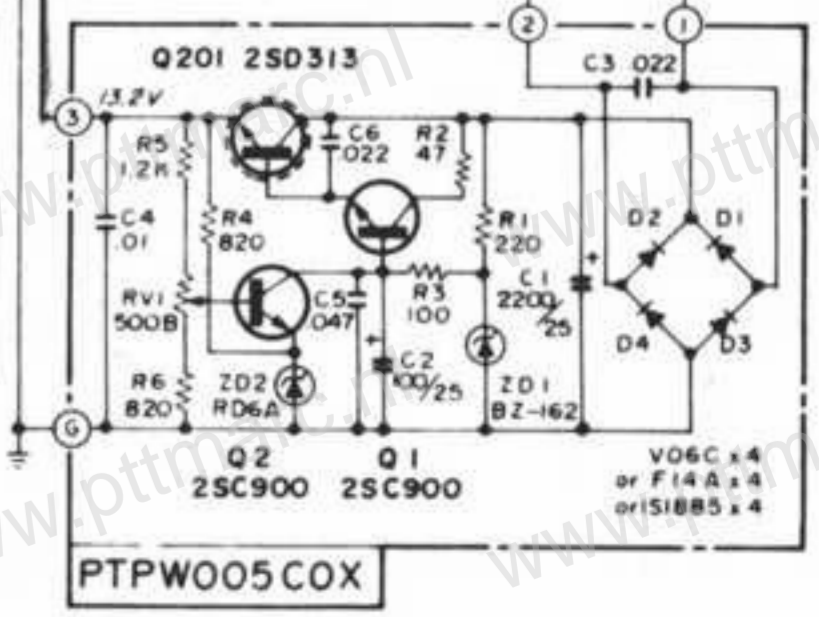
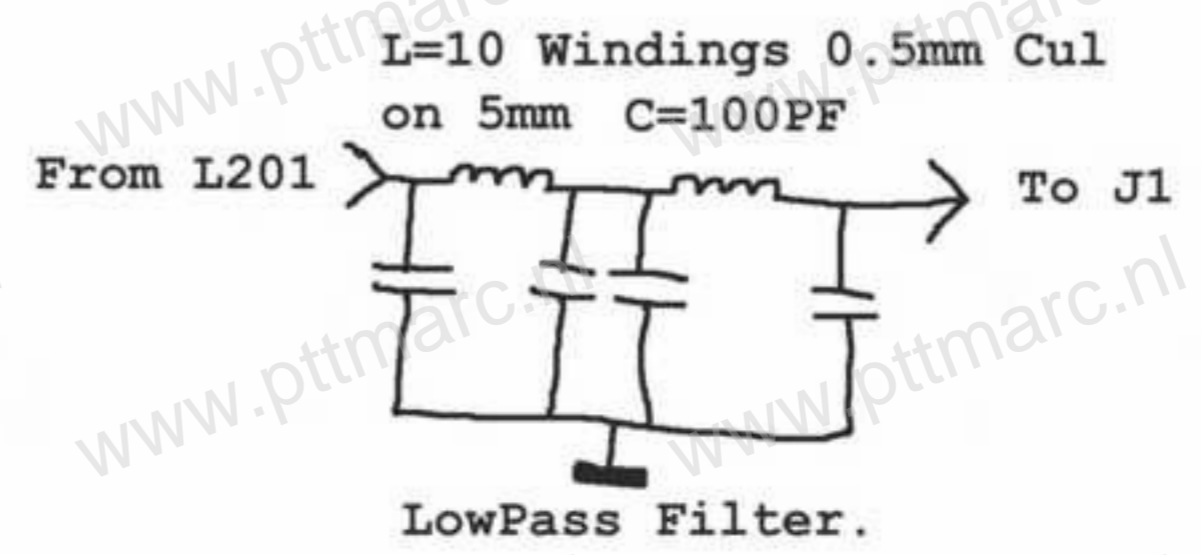
1. Replace channelswitch with a 40 pos. switch.
2. Replace PLL08A with PLL03A
3. Connect pin 10 to ch-switch where there is now copper this is B'.
4. Remove Q5 and replace with a 2SC2166 or 2SC1306 mounted on a heatsink.
5. Replace C45 with a coil of 680µH.
6. Replace L3 with a coil of 10 Windings 0.5mm cul on 5mm.
7. Replace ceramic filter F1 by a crystal filter of 10.7 MHz.
8. Remove C201 and place Low-Pass Filter.
9. Connect unused pin of RV4 to ground and calibrate so meter read your RF power.



Note
 after you replaced the PLL you have to adjust the VCO.
 Connect a voltagemeter to TP1.
 On RX adjust T1 for a reading of 4.5 Volts and on RX adjust CT1 for a reading of 4.5 Volts.
 (channel 20)

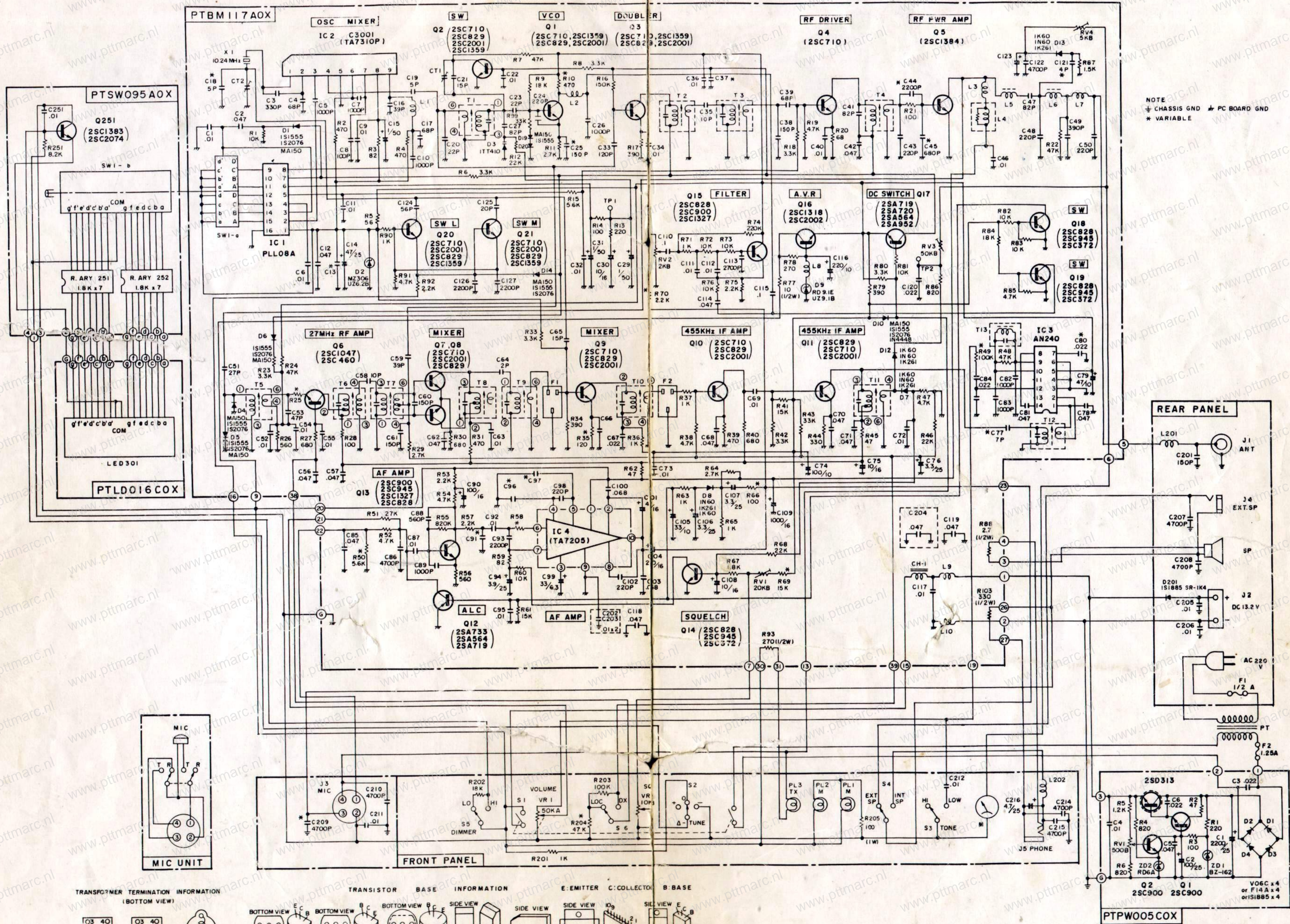


RV1=FM Squelch.
 RV2=FM Deviation.
 RV3=RX Meter.
 RV4=TX Meter.



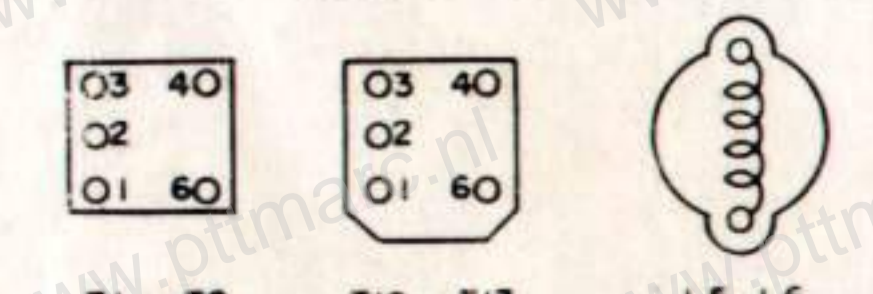
If you want more stability
 replace C1 with 4700 µF 25V
 and Q201 with 2SD704.
 (this is the same as a PTPW007COX)

Schema

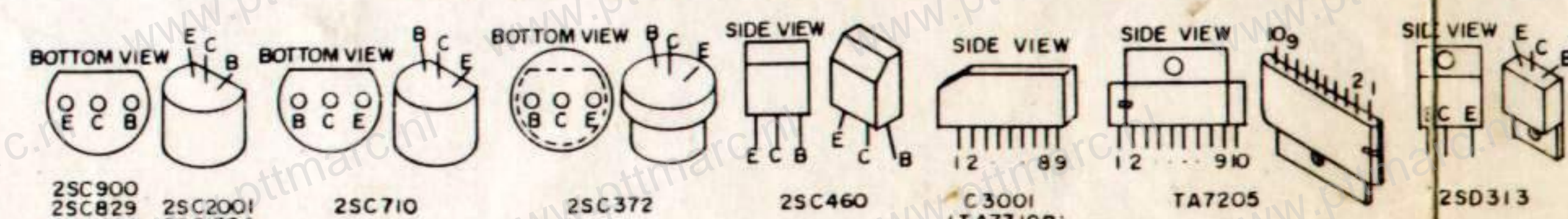


NOTE
 ⊕ CHASSIS GND ⊕ PC BOARD GND
 * VARIABLE

TRANSFORMER TERMINATION INFORMATION (BOTTOM VIEW)



TRANSISTOR BASE INFORMATION



E-EMITTER C-COLLECTOR B-BASE

PTPW005COX

Q2 2SC900 Q1 2SC900

V06C x 4 or F14 x 4 or IS1885 x 4