



PVDM



PRO & Consumer Audio



PVDM



PRO & Consumer Audio

This is still a work in progress

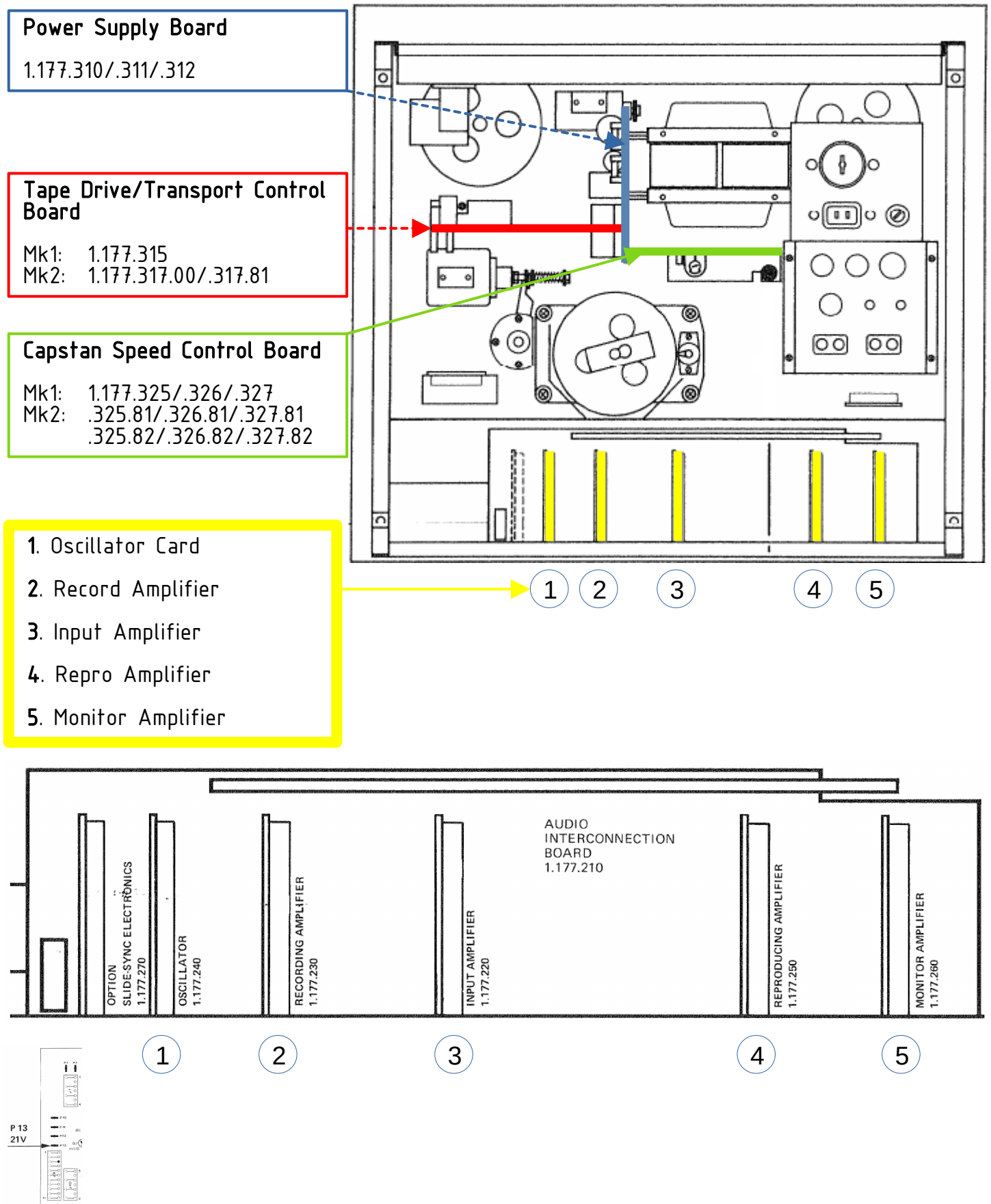
Guide to Revox B77:

Page:

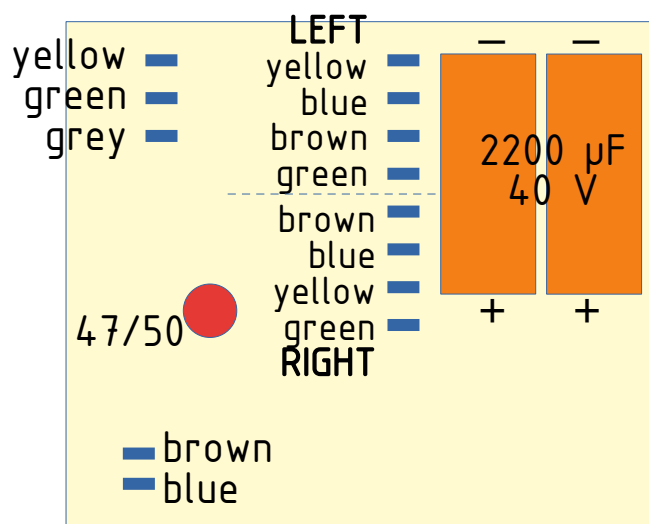
- 2 Location of the boards
- 3 Details of the boards – wires, caps
- 4 Motor Caps – value and colouring
- 5 Calibration instruction – the short & quick version
- 6 Audio Connection Board – layout of all cable connections



1. Revox B77 – Location of the boards:

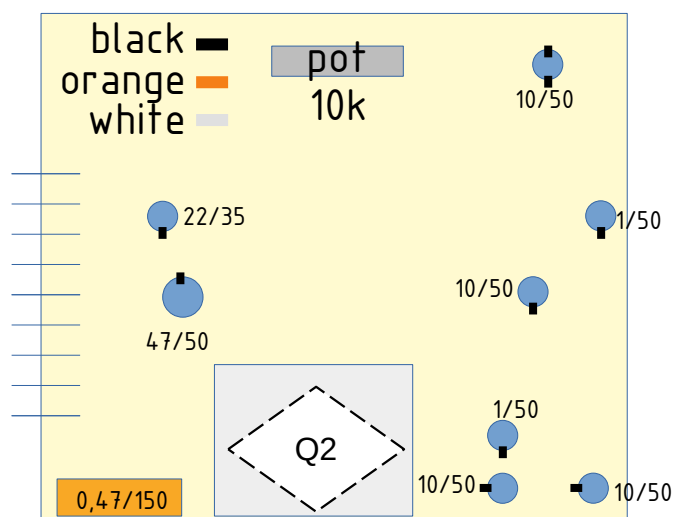


Revox B77 – details of the boards – wires, caps:



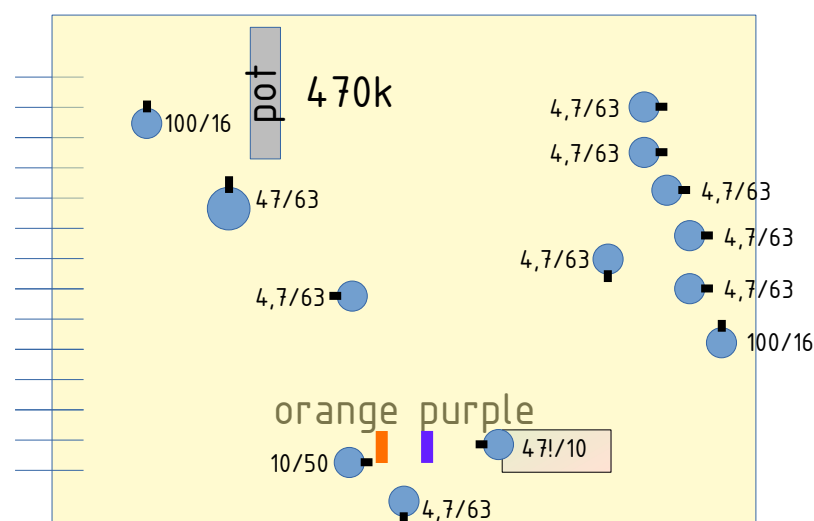
PSU PCB 1.177.

47 μ F	50 V	1x
2200 μ F	40 V	2x
-		
tot		3x



Capstan PCB 1.177.327.81

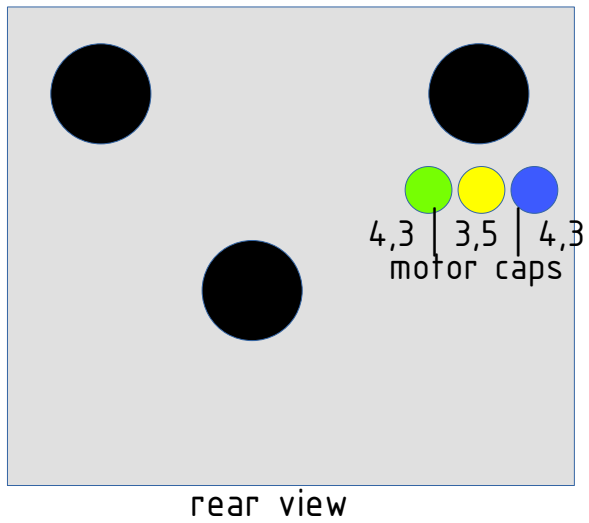
1 μ F	50 V	2x
10 μ F	50 V	4x
22 μ F	35 V	1x
47 μ F	50 V	1x
-		
tot		8x



Tape Drive/Transport Control PCB 1.177.317.81

4,7 μ F	63 V	8x
10 μ F	50 V	1x
47 μ F	63 V	2x
100 μ F	16 V	2x
-		
tot		13x

Revox B77 – Motor Caps – value and colouring:



2. Revox B77 – Quick Overview Of Calibration:

SHORT VERSION if you're familiar with the procedure (else I suggest do it from SM first time)

1a -for regulated 21 V supply:

check P13 on audio interconnect board for $21\text{ V} \pm 1\text{ V}$

1b -for unregulated 24 V supply:

check R34 on tape transport control board for 24..26 V

of J5 pin 12, J5 = connector onder de 2 zekeringen vh psu pcb. pin 1 is onderaan.

of op de zichtbare pin vd bovenste grote 2200 elco.

2 - check 35..50 mV @ 3 3/4 IPS at P12 (brown) and P13 (blue) of tacho head

3 - check TP1 on speed control board for 800 Hz (adjust R14)

4 - set control levels at the back fully open

5 - input tone @ 1k at max input level setting and adjust input signal until 0,775 V is obtained at output. (20 mV)

6 - adjust METER CAL for 0 VU on meter

7 - adjust level > 6 dB to check overload indicators, adjust R34/37 or R30/38 on monitor board

8 - adjust the REPRO HEAD azimuth

9 - play reference level from cal tape, adjust REPRO LVL for 0,775 V on output

10 - set input levels to ZERO

11 - start recording on blank tape and check for 30..32 V on erase head and 150 kHz $\pm$ 5 kHz (adjust T1 on osc board)

12 - start rec and measure bias trap on rec amp board for < 350 mV or less, adjust coils

13 - adjust the REC HEAD azimuth

14 - set input levels to MAX

15 - start recording and feed 10 kHz @ -20 dB below 0 VU

16 - adjust BIAS pots according to table 6.4-15 on pg. 50 of SM PDF (approx. $3 < x < 7$ dB overbias depending on tape) for both speeds

17 - keep levels on MAX

18 - start REC 1 kHz and adjust generator for 0,775 V on output

19 - switch MONITOR to position TAPE

20 - adjust REC LEVEL to obtain output of 0,775 V. Check between TAPE and SOURCE

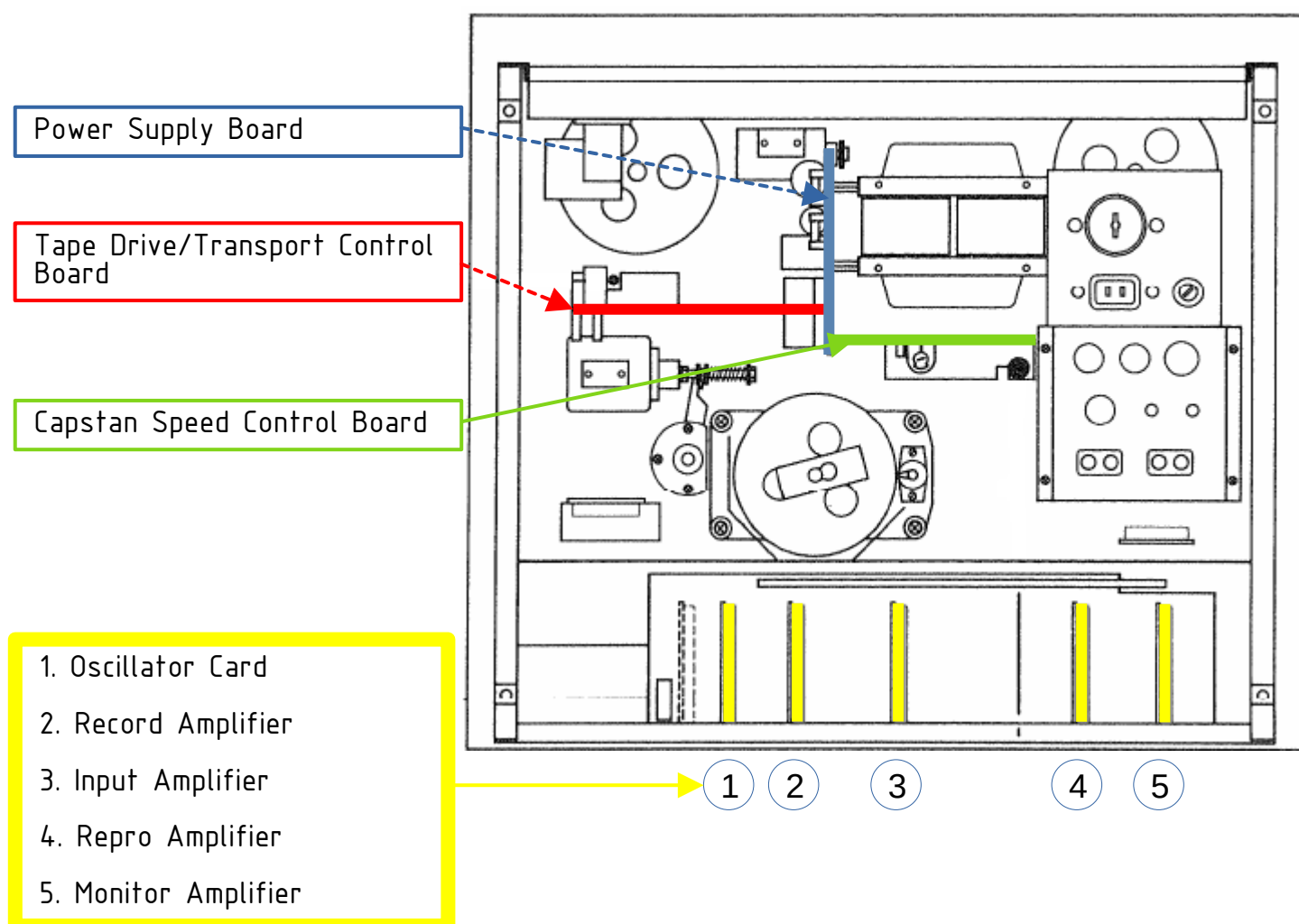
21 - start REC with input 12 kHz -20 dB

22 - adjust pots EQ SLOW FAST until output is equal to the signal level at 1 kHz for both speeds

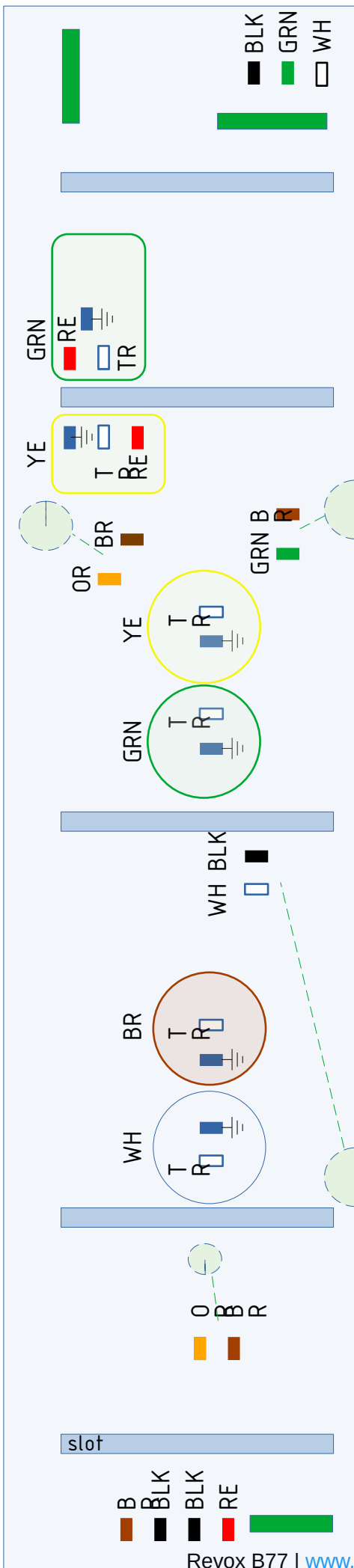
23 = measure distortion (< 1%, or see table 6.5-2 pg. 53 SM)

24= measure wow and flutter (<0,1 % see SM)

1. Revox B77 SLS – Layout of the boards:



3. AUDIO INTERCONNECTION BOARD



 = connector

 = hole with wires

TR = transparent

BR = brown

BLK = black

RE = red

OR = orange

WH = white

GRN = green

YE = yellow

 = earth