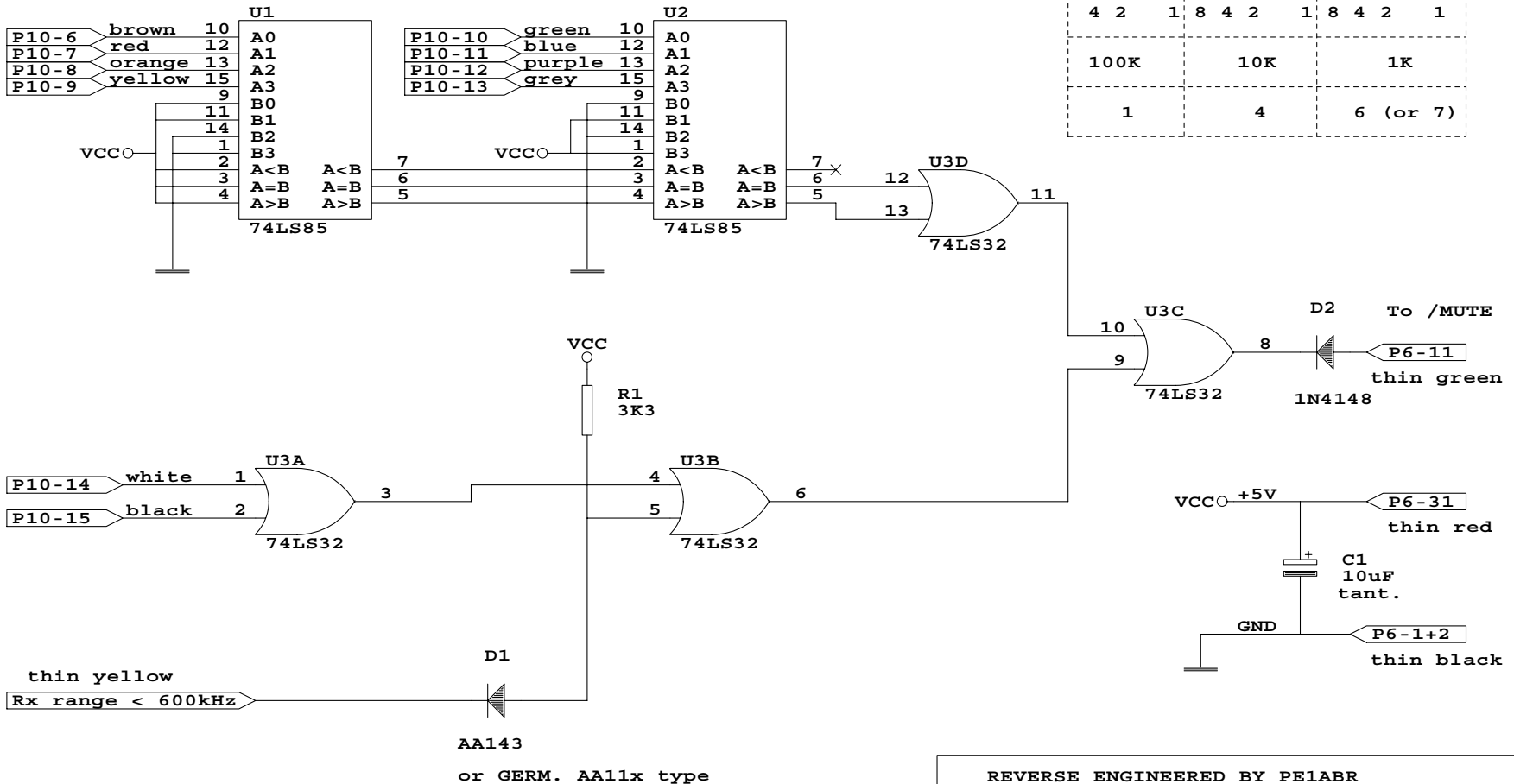


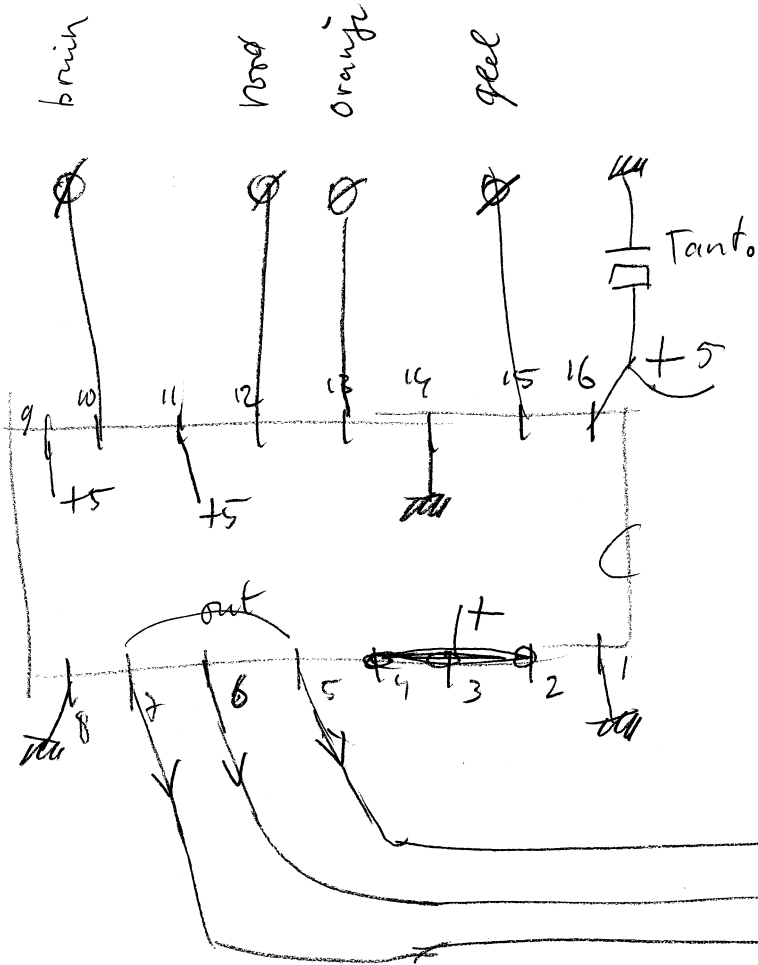
THIS CIRCUIT DETECTS A TUNE FREQUENCY OF 146 KHZ OR LOWER  
 BY PINCHING OFF THE LEVEL ON PIN P6-11 IT MUTES THE RECEIVER.  
 THIS IS PROBABLY TO COMPLY TO A GERMAN LAW, TO OBTAIN A  
 GERMAN FTZ APPROVAL NUMBER OR REGISTRATION.



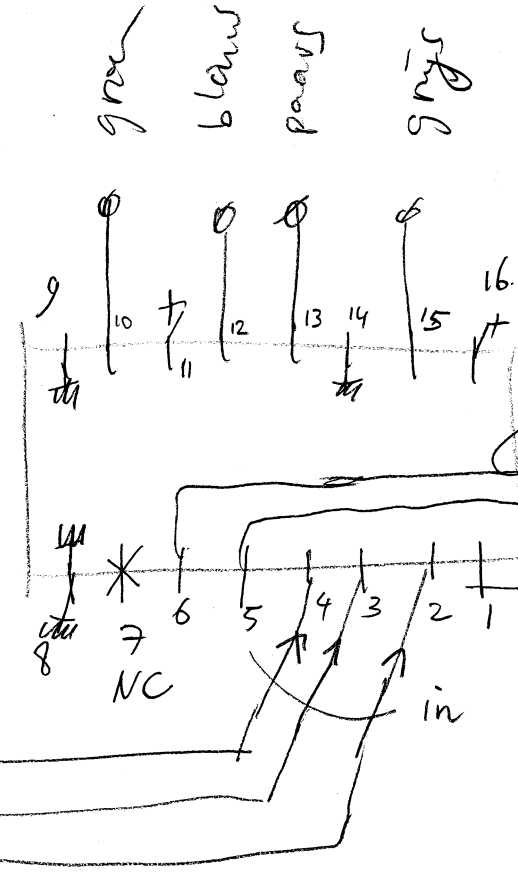
LS32	LS85 U2	LS85 U1	
A A 1 0	A A A A 3 2 1 0	A A A A 3 2 1 0	
0 0	1 0 1 0	0 0 1 1	X
4 2	1 8 4 2	1 8 4 2	1
100K	10K	1K	
1	4	6 (or 7)	

REVERSE ENGINEERED BY PE1ABR  
 BOARD PROBABLY SOLD VIA RICHTER & CO.  
 Title  
 NRD-515 TUNE LIMIT FOR GERMAN FTZPRUFNUMMER  
 Size Document Number REV  
 A NRD-515 RFK (RICOFUNK?) E  
 Date: March 15, 2013 Sheet 1 of 1

# Bottom Layer

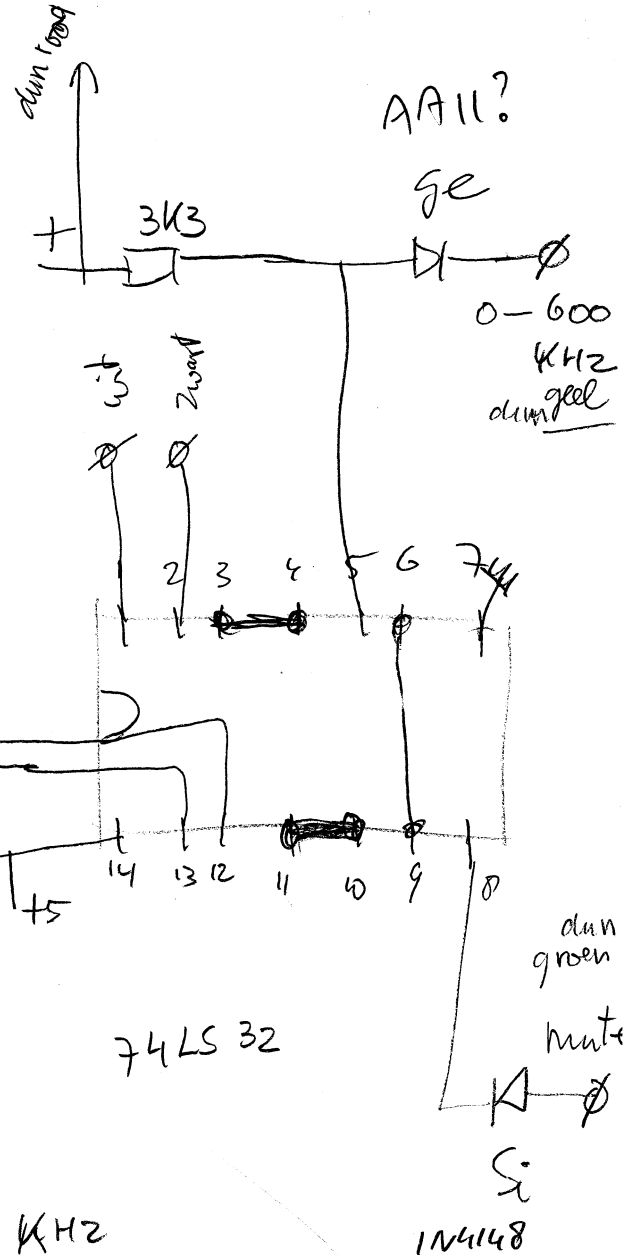


74LS85



74LS05

146.0 KHz  
blokkering

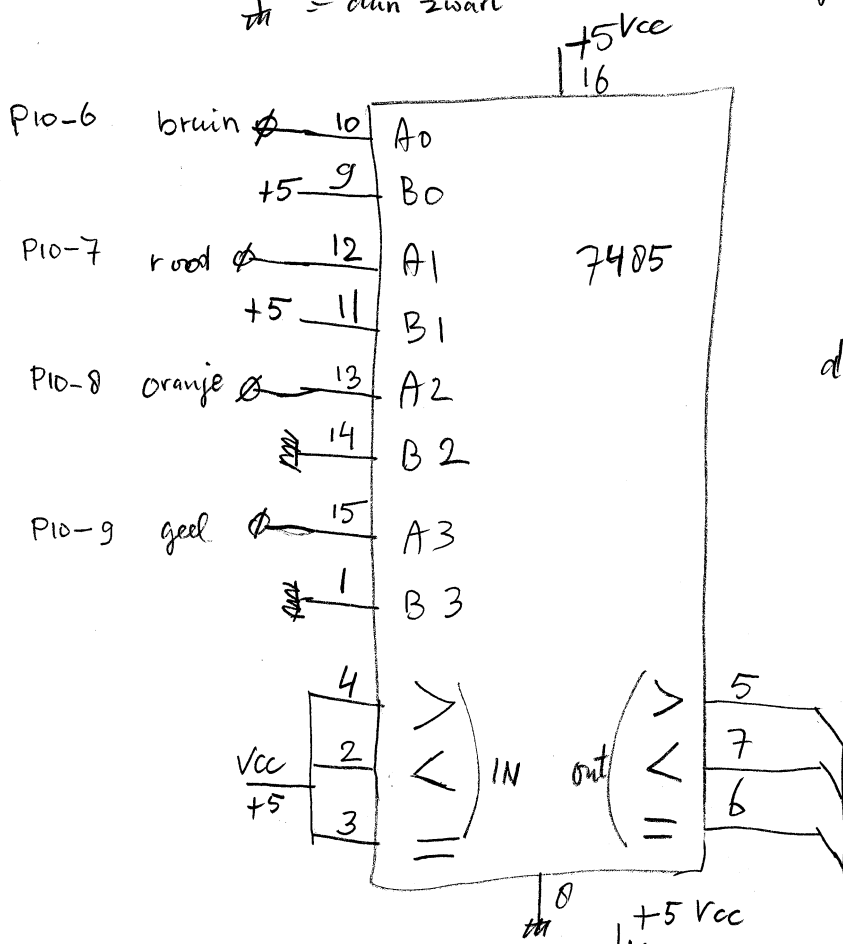


74LS32

1N4148

Vcc = dun rood  
 GND = dun zwart

74LS85 → 4bit magnitude compare

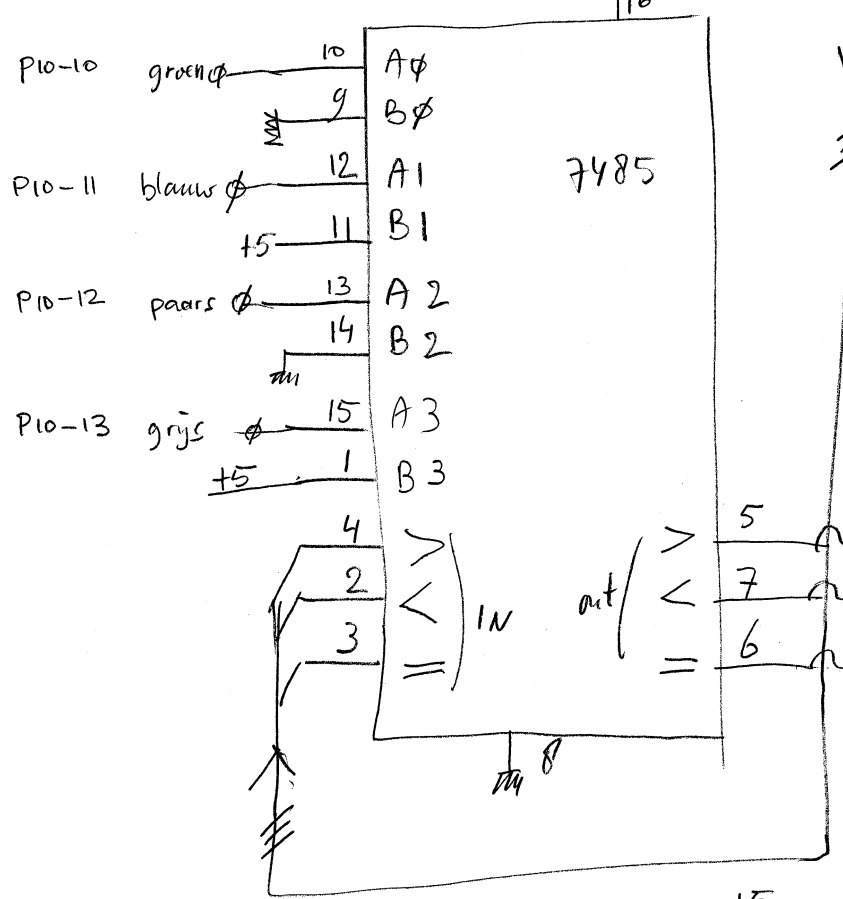


code woord

LS32		LS85				LS85			
A1	A0	A3	A2	A1	A0	A3	A2	A1	A0
0	0	1	0	1	0	0	0	1	1
display bit		4	2	1	8	4	2	1	8
		100k		10k		1k			

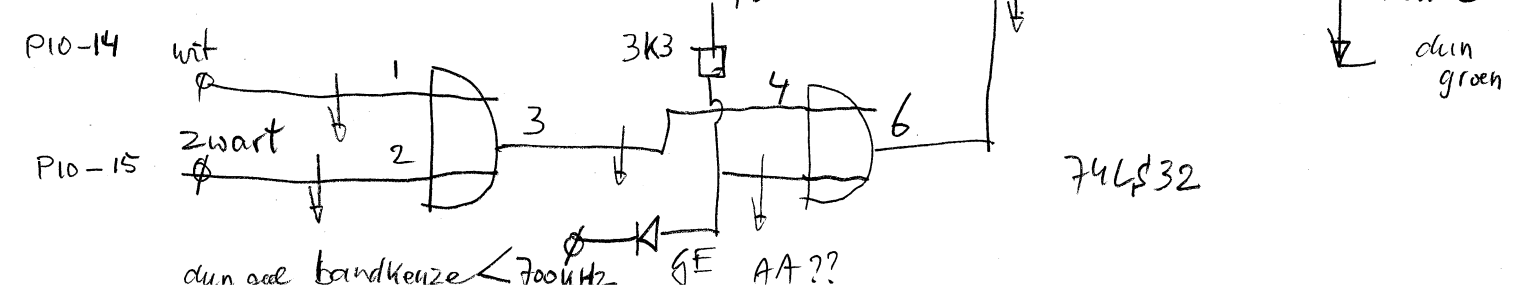
↓

1                      4                      6 / of 7  
 0110 / 0111  
 (5 = 0101)



	>	=
145	L	L
146	H	H
147	H	H

Een H / geen mute  
 of meer



< 146.0 blokkering

plug	decade	kleur	
P10 - 6	2	1k bruin	
P10 - 7	4		rood
P10 - 8	8		oranje
P10 - 9	1	10k geel	
P10 - 10	2		groen
P10 - 11	4		blauw
P10 - 12	8		paars
P10 - 13	1	100k grijs	
P10 - 14	2		wit
P10 - 15	4		zwart

P6-11        mute

P6-1+2        m

P6-31 +5V