

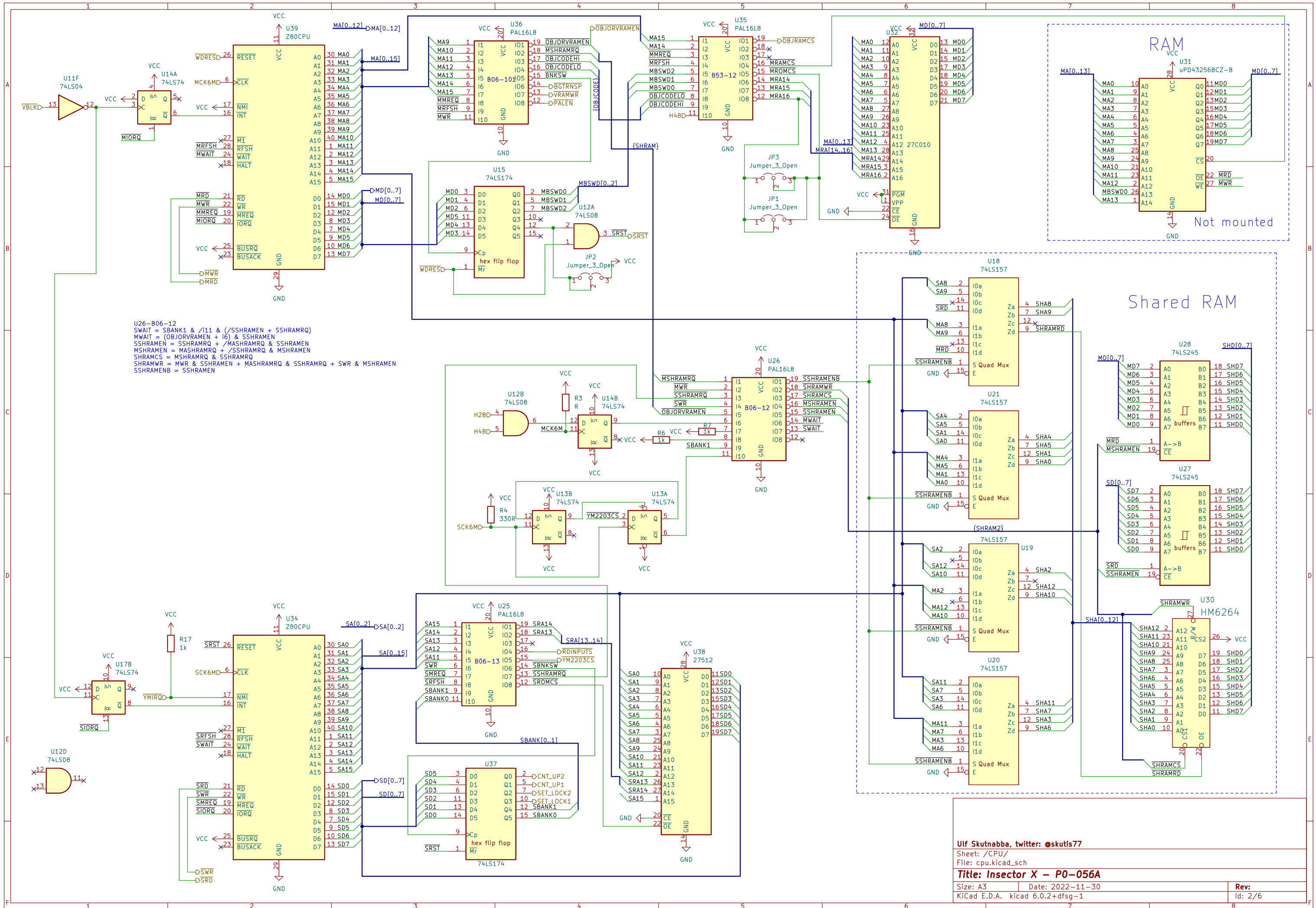
Ulf Skutnabba, twitter: [@skutis77](#)

Sheet: /  
File: insectx.kicad\_sch

**Title: Insector X - P0-056A**

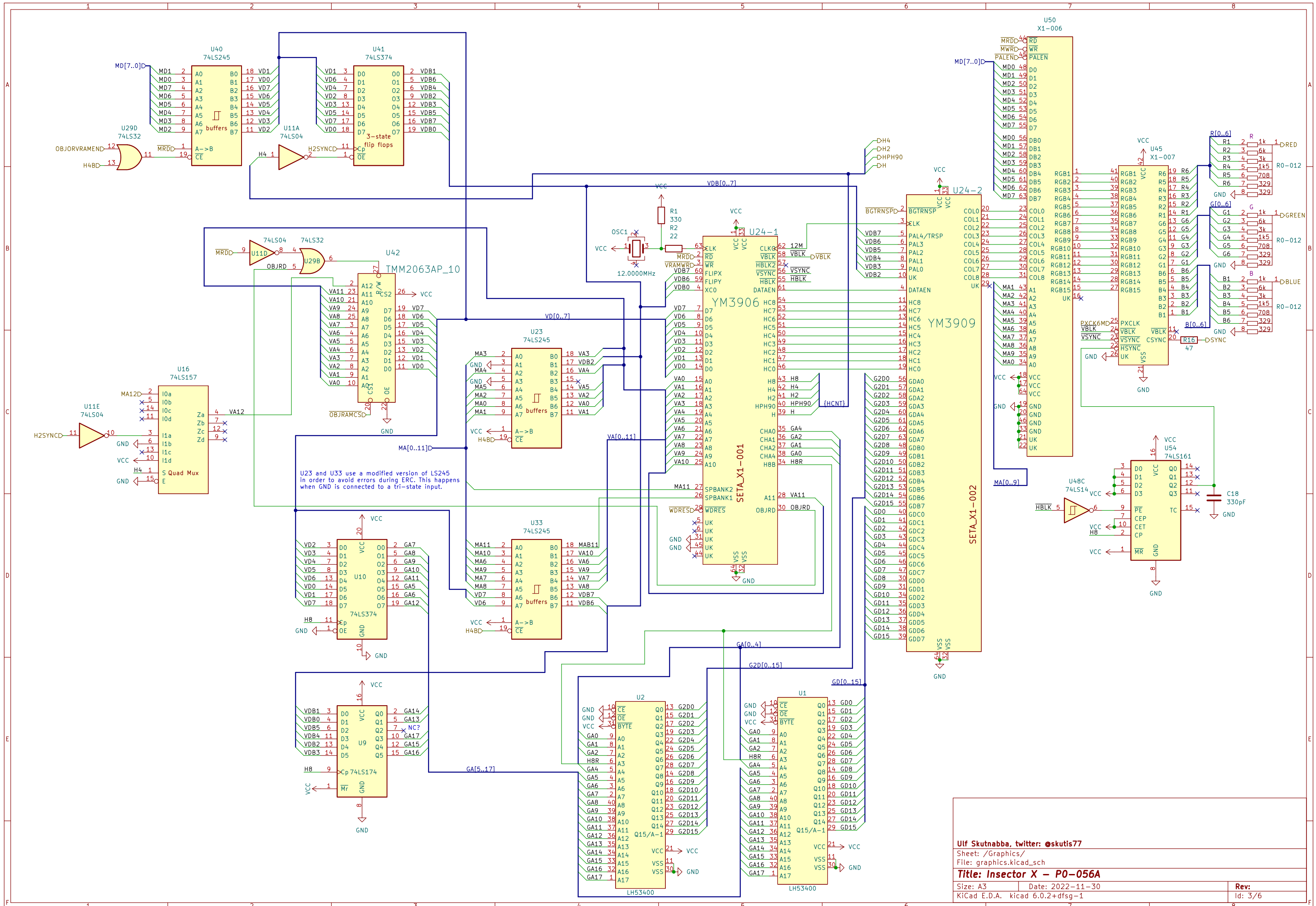
Size: A3 Date: 2022-11-30  
KiCad E.D.A. kicad 6.0.2+dfsg-1

Rev:  
Id: 1/6

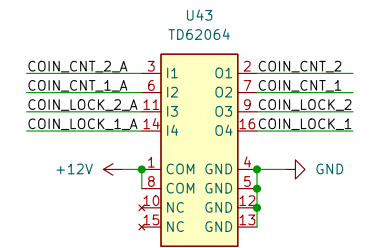
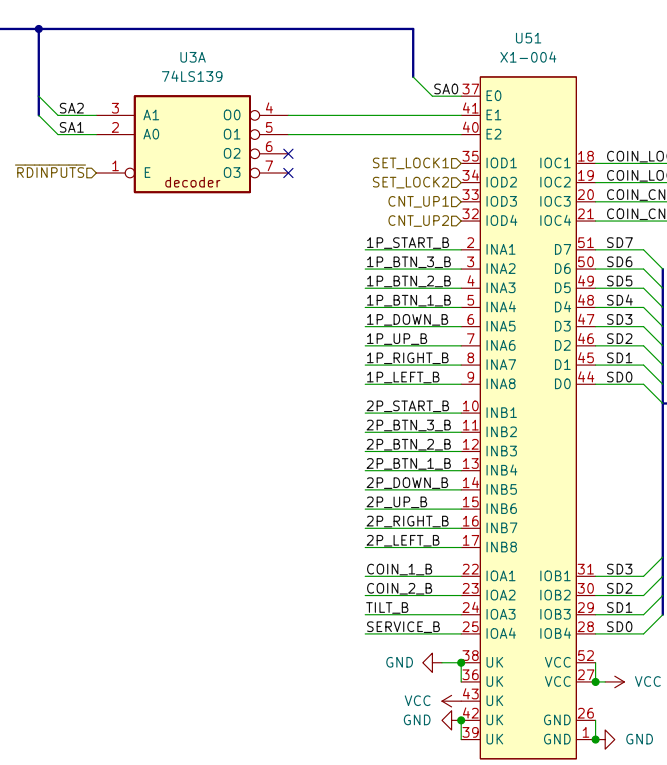
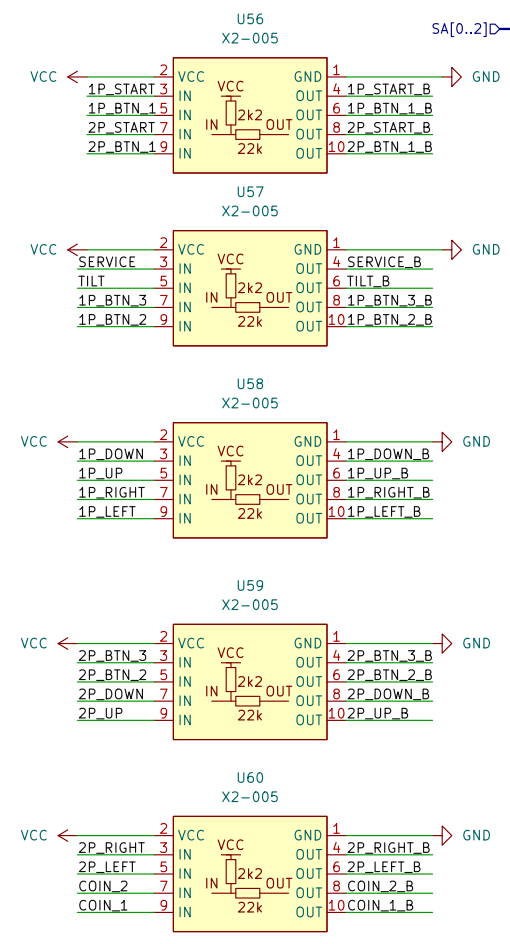
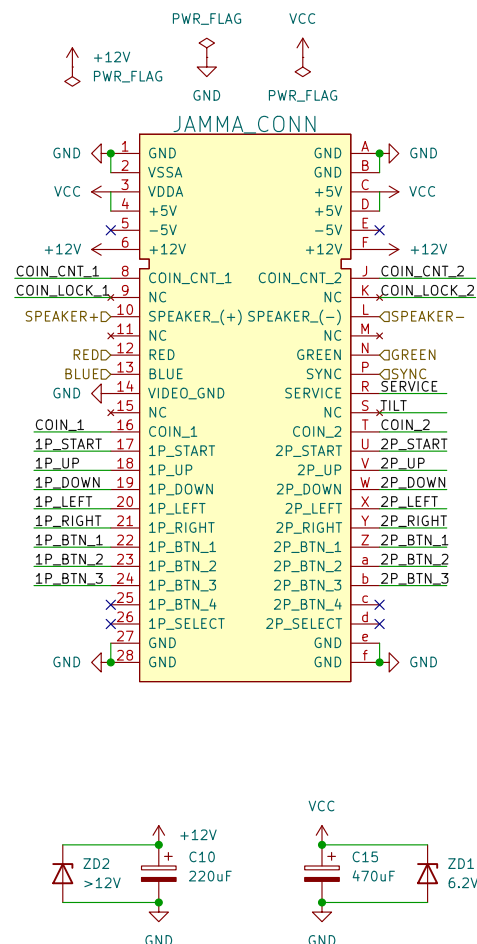


U26-B06-12  
 SWAIT = SBANK1 & /I1 & (/SSHRAMEN + SSSHRAMRQ)  
 MWAIT = (OBJORVRAMEN + I6) & SSSHRAMEN  
 SSSHRAMEN = SSSHRAMRQ + /MASHRAMRQ & SSSHRAMEN  
 MSHRAMEN = MASHRAMRQ + /SSHRAMRQ & MSHRAMEN  
 SHRAMCS = MSHRAMRQ & SSSHRAMRQ  
 SHRAMWR = MWR & SSSHRAMEN + MASHRAMRQ & SSSHRAMRQ + SWR & MSHRAMEN  
 SSSHRAMENB = SSSHRAMEN

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 Sheet: /CPU/  
 File: cpu.kicad\_sch  
**Title: Insector X - P0-056A**  
 Size: A3 Date: 2022-11-30 Rev:  
 KiCad E.D.A. kicad 6.0.2+dfsg-1 Id: 2/6



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 Sheet: /Graphics/  
 File: graphics.kicad\_sch  
**Title: Insector X - P0-056A**  
 Size: A3 Date: 2022-11-30 Rev:  
 KiCad E.D.A. kicad 6.0.2+dfsg-1 Id: 3/6

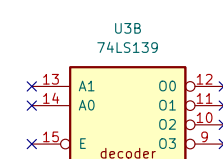
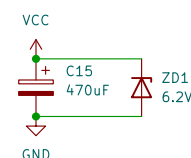
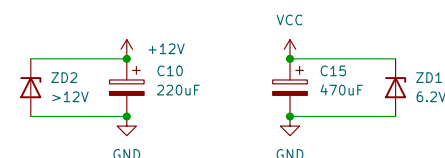


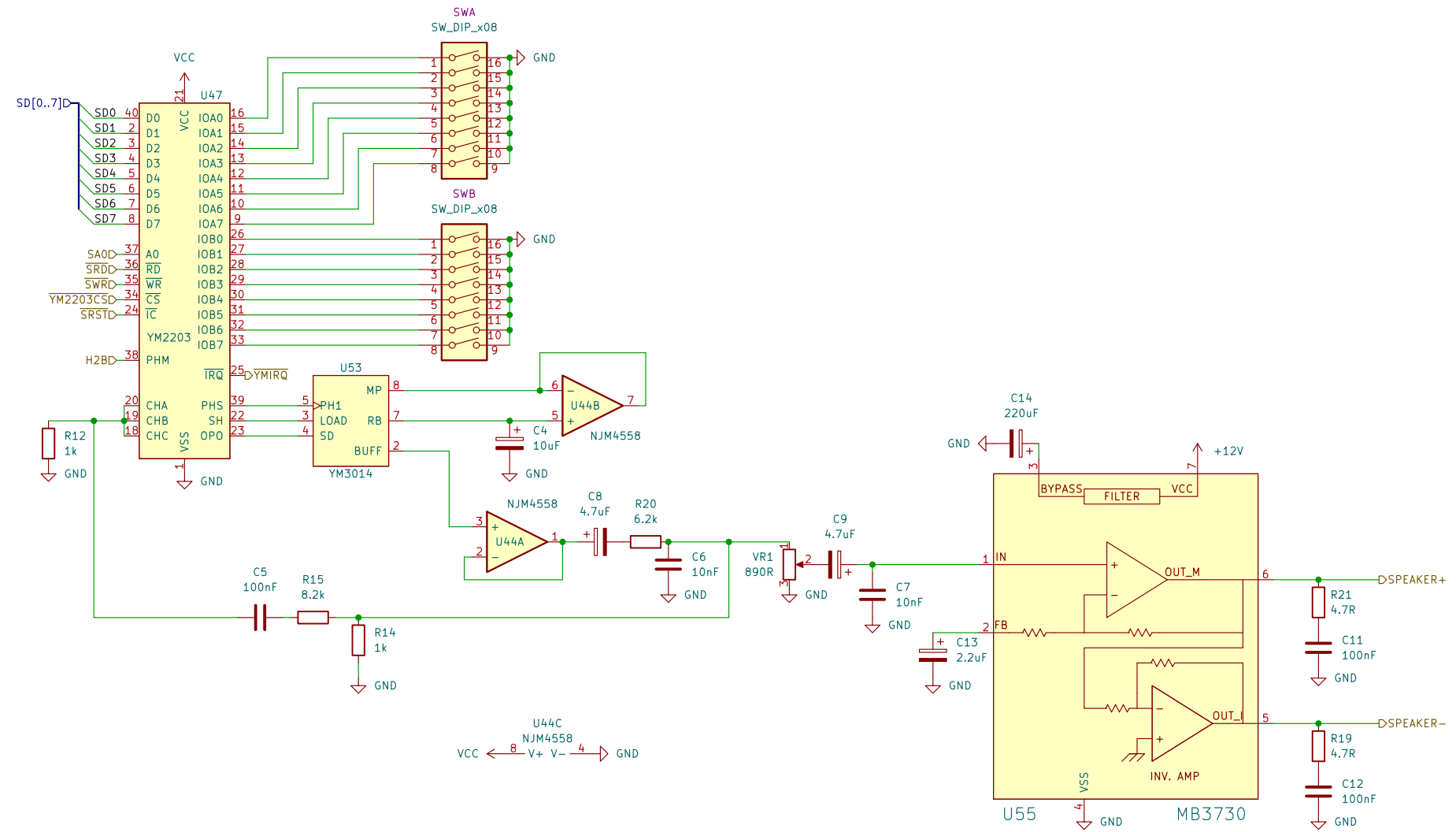
The I/O direction of each port in X1-004 is probably determined by connecting the pins 36,38,39, 42 and 43 to VCC and GND accordingly.

In insectx IOD -> IOC, IOA -> IOB

E2	E1	E0	Active output
H	L	L	INA -> D, IOD -> IOC
H	L	H	INB -> D, IOD -> IOC
L	H	L	IOA -> IOB
X	X	X	IOD -> IOC

All inputs are active low, when the outputs are not active they are in tri-state state. Except for IOC in this case.





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Sheet: /Sound/  
File: sound.kicad\_sch

**Title: Insector X - P0-056A**

Size: A3 Date: 2022-11-30  
KiCad E.D.A. kicad 6.0.2+dfsg-1

Rev:  
Id: 5/6

