

ldea 85Mhz crystal Divide by 8=10.6250Mhz variance = 0.18% use a 5N74F161A to divide

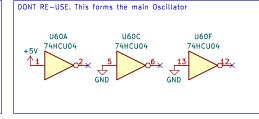
## ALTERNATE CLOCK - DIP-14 CAN Oscillator

(U50) - 74HCU04 can be replaced with a DIP 14 CAN Oscillator. Noting: \* Pin 1 = Output Enable (High) \* Pin 7 = GND

- \* Pin 8 = Clock Outuput
- \* Pin 16 = VCC

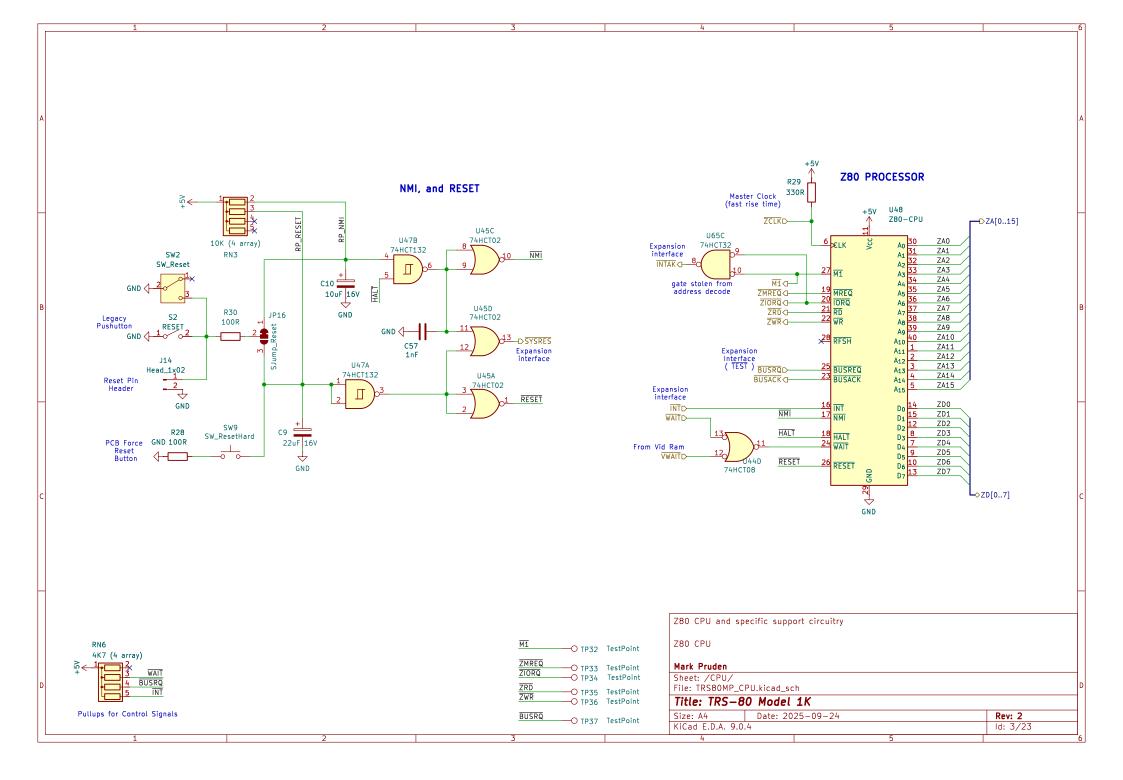
(Then discrete components Y1, R56, R57, C60, C61 can be excluded.)

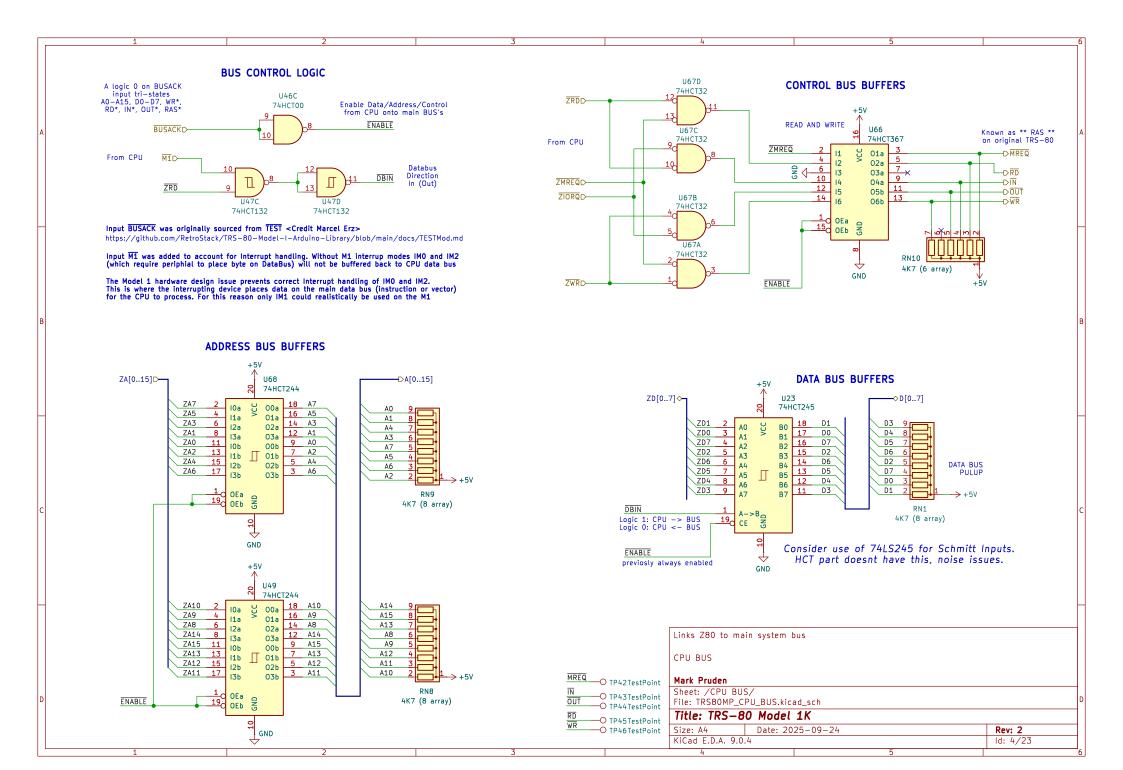
Consider Programmed 10.645 Mhz oscillator https://www.digikey.com.au/en/products/detail/ecs-inc/ECS-P145-AN/502317

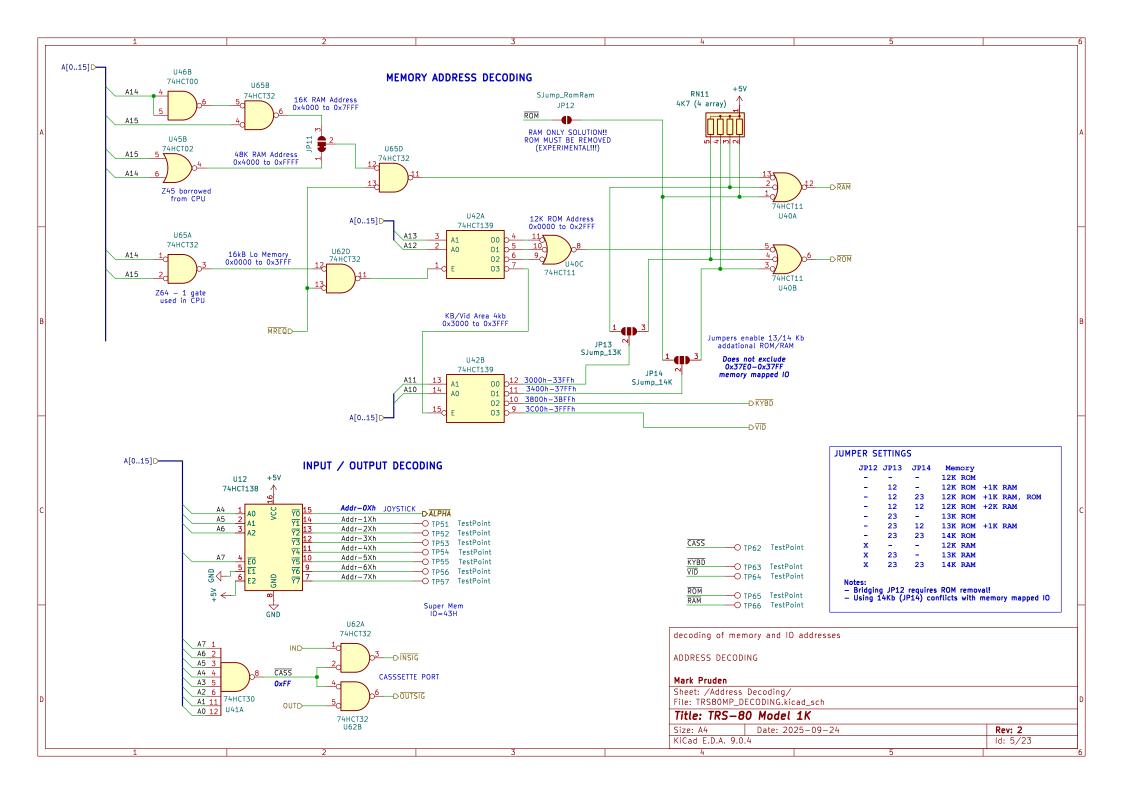


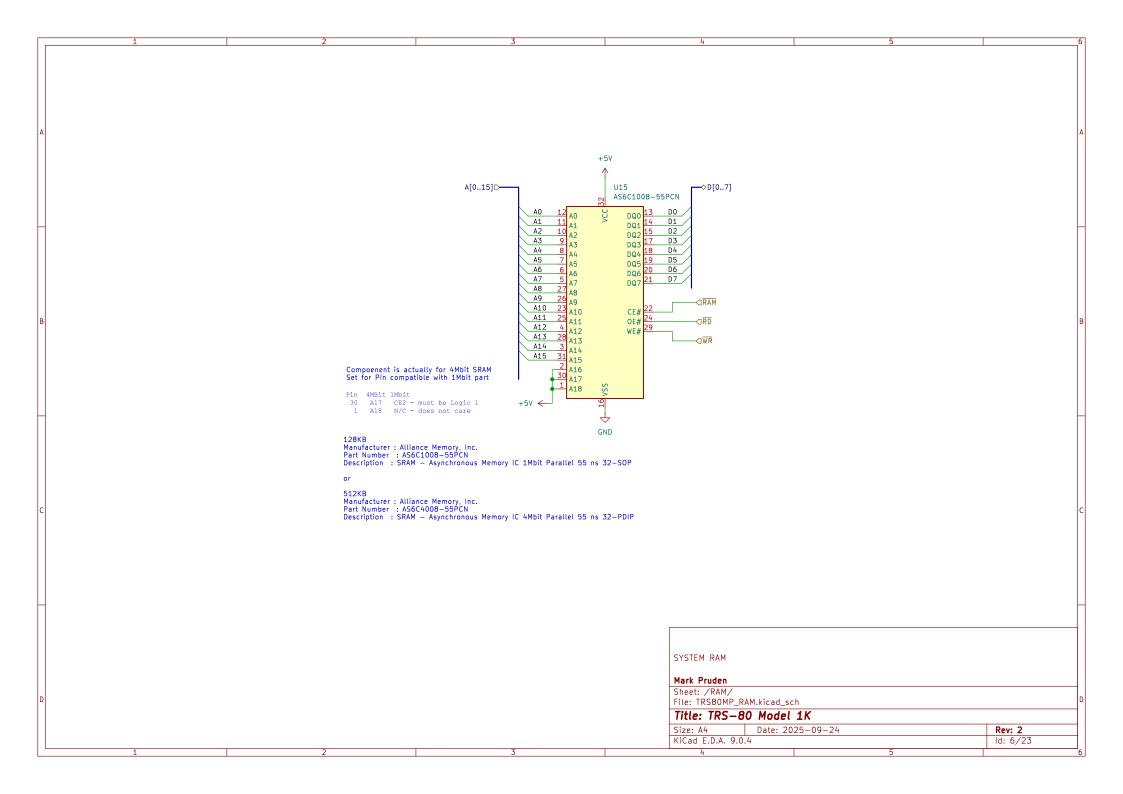
Main clock generation for CPU and video	
CLOCK	
Mark Pruden	
Sheet: /Clock/ File: TRS80MP_CLOCK.kicad_sch	D
Title: TRS-80 Model 1K	
Size: A4 Date: 2025-09-24	Rev: 2
KiCad E.D.A. 9.0.4	ld: 2/23

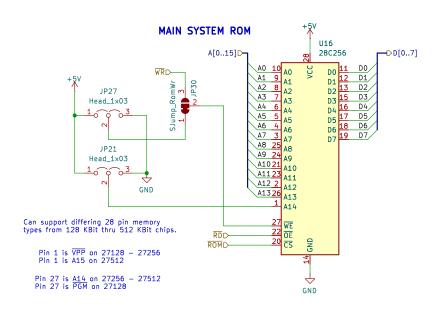
ld: 2/23











#### JUMPER SETTINGS

PROM TYPE JP21 JP27 28256 A14 12 A15 27512 A14 27256 12 A14 27128 12 12

JP30 - EEPROM Write Mode

- 12 Normal Read Only
- 23 Enable Write (28256)

- Notes:

   JP21 controls Pin 1, and JP27 Pin 27

   Bridging 1&2 Provides Logic Level 1

   Bridging 2&3 Provides Logic Level 0

# Recommend EEPROM:

Manufacturer : Microchip Technology Part Number : AT28C256-15PU Description : EEPROM Memory IC 256Kbit Parallel 150 ns 28-PDIP

SYSTEM ROM

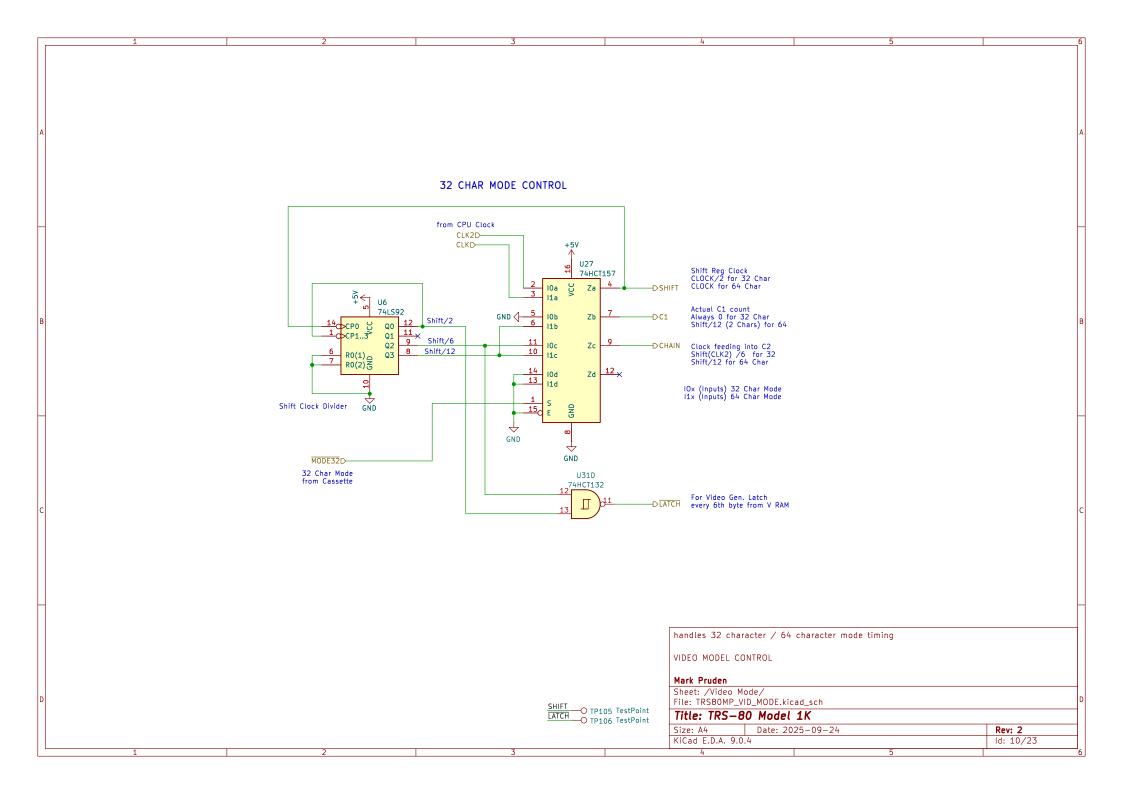
Mark Pruden

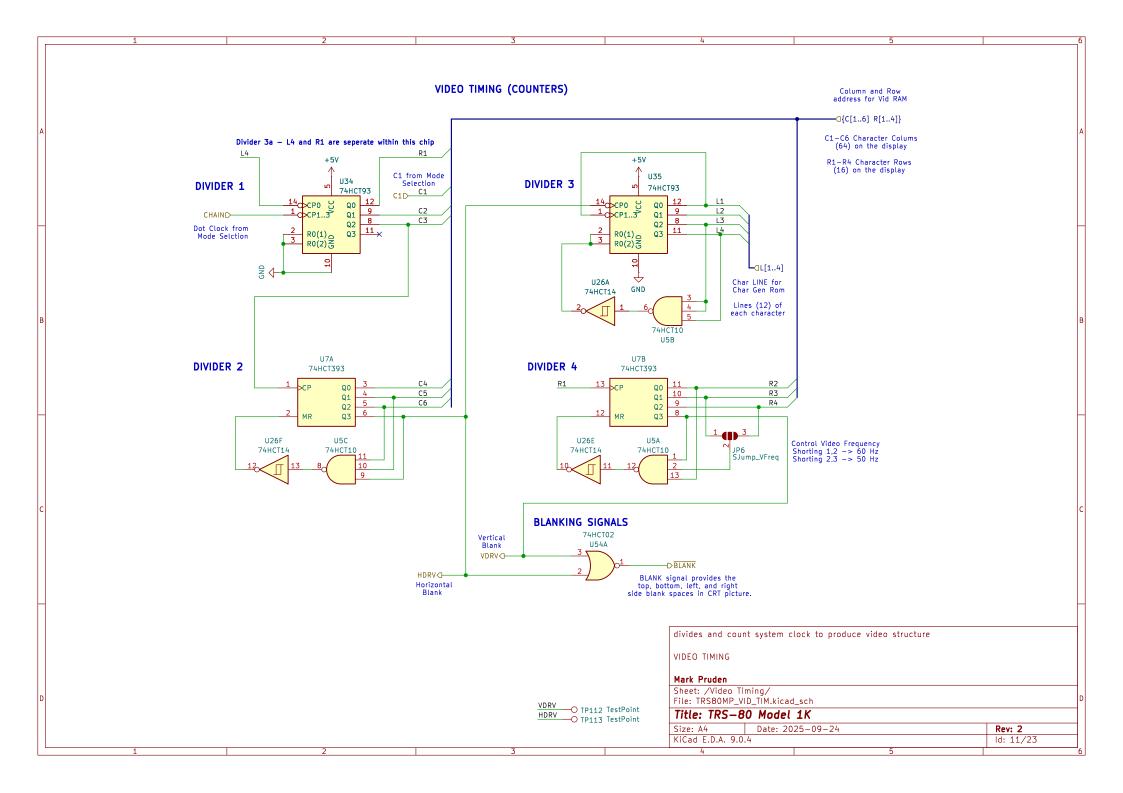
Sheet: /ROM/

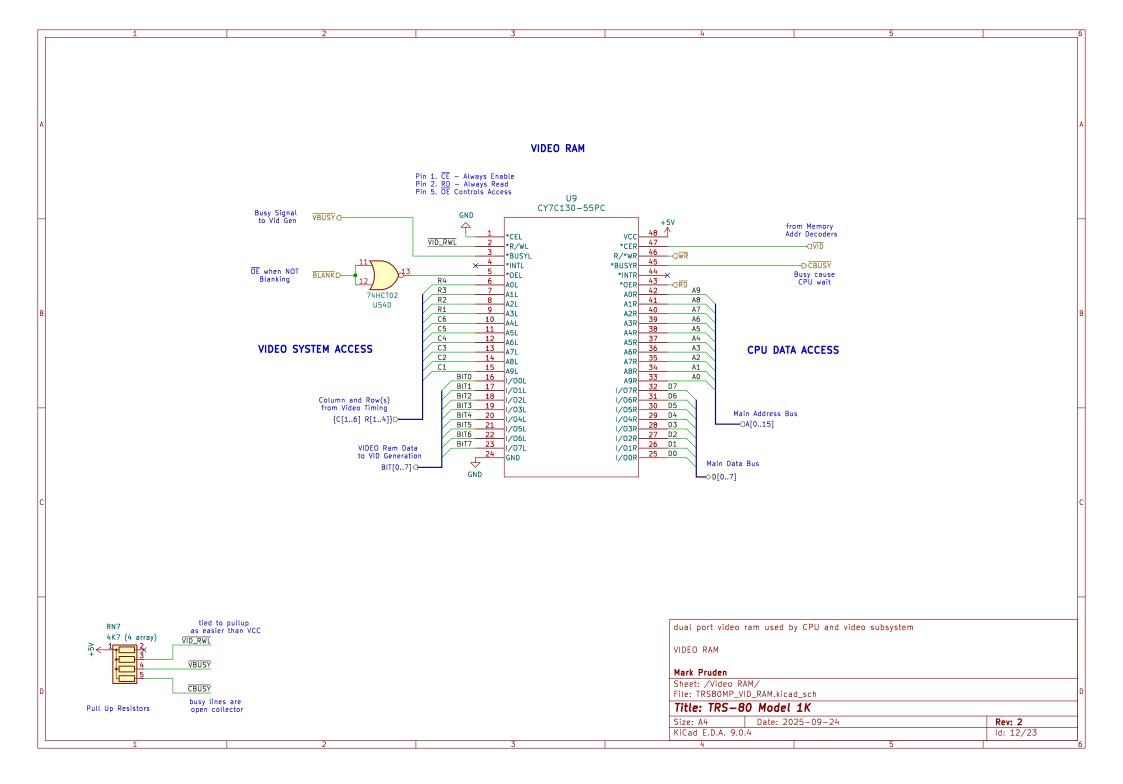
File: TRS80MP\_ROM.kicad\_sch

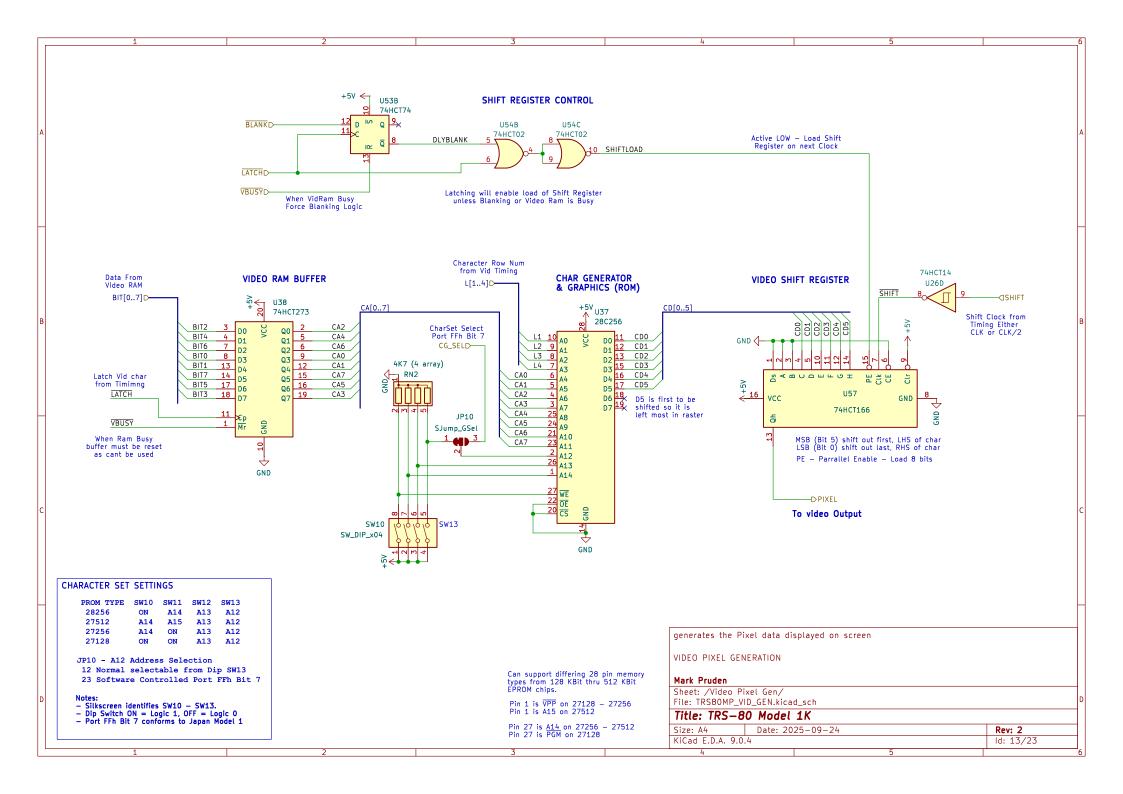
Title: TRS-80 Model 1K

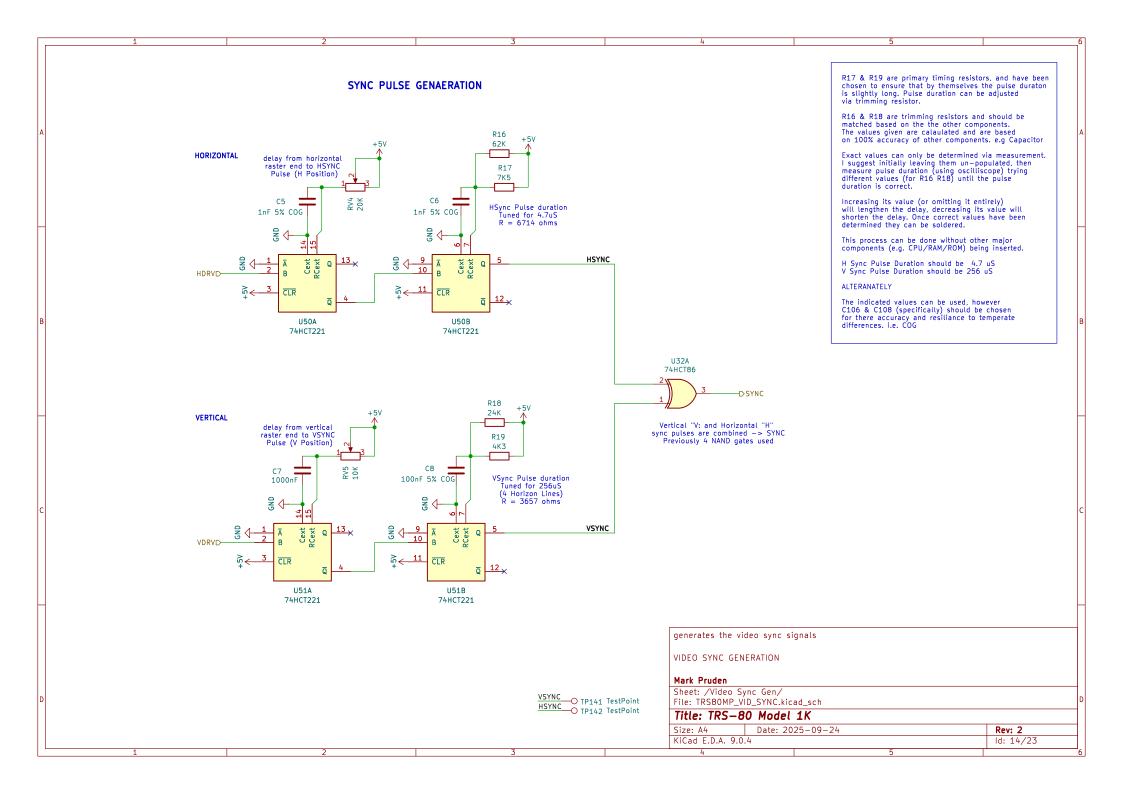
Size: A4 Date: 2025-09-24 Rev: 2 KiCad E.D.A. 9.0.4 ld: 7/23

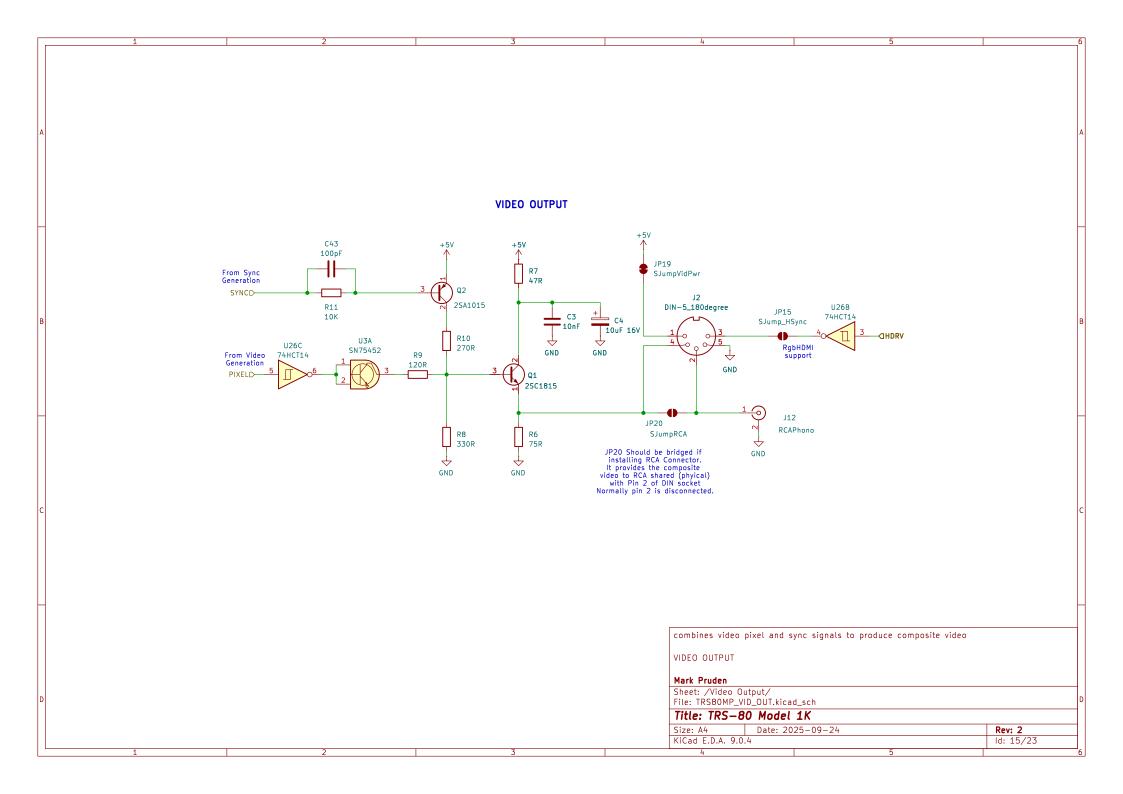


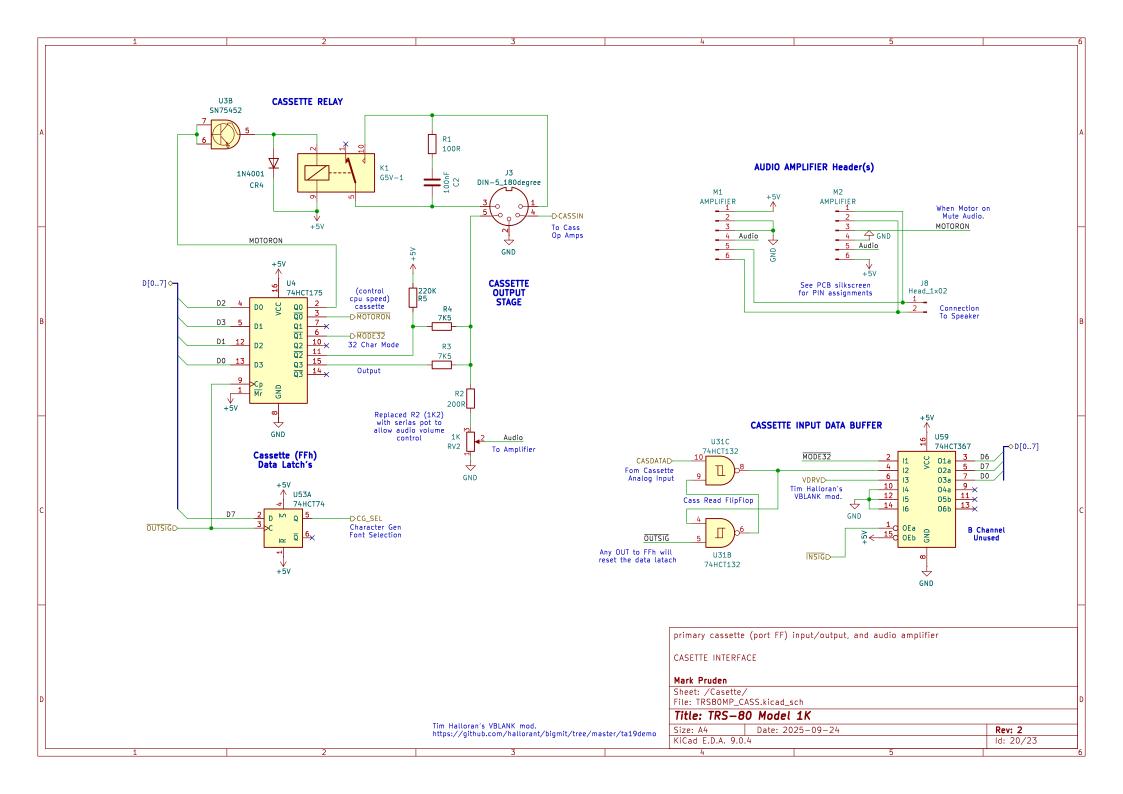




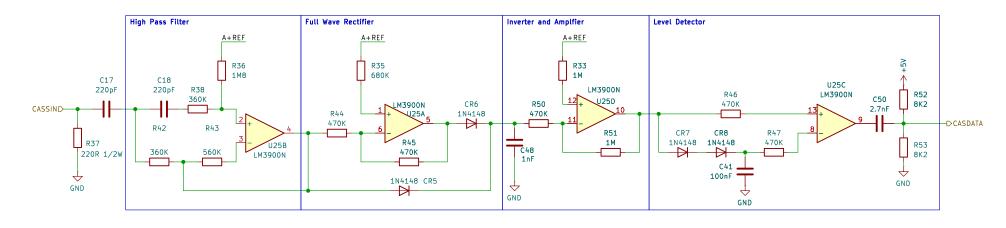


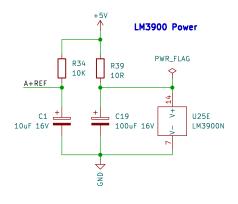






# CASSETTE INPUT STAGE





analog cuircuitry to convert incoming cassette signal to digital

CASSETTE ANALOG INPUT

### Mark Pruden

Sheet: /Cassette Input/ File: TRS80MP\_CASS\_IN.kicad\_sch

Titl	le: T	R	5-1	80	) M	lod	e	1	K
1110			,	~~		, 00		-	

 Size: A4
 Date: 2025-09-24
 Rev: 2

 KiCad E.D.A. 9.0.4
 Id: 21/23

