


# VINTAGE COMPUTER REPAIR 101


## Hey Birt!


What'cha workin' on?




**Hey Birt!**  
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**Shorts 0005h**  
Replacing corroded battery contacts  
14:24

Shorts 0005h – Replacing corroded battery contacts....  
421 views • 2 weeks ago




**TANDY TPDD2**  
A Portable Disk Drive with a hard knock life. Can we fix it?  
SEP TANDY 39:27

Tandy TPDD2 with a hard knock life. Can we save it?...  
599 views • 3 weeks ago




**ODDBALL C64 POWER SUPPLIES**  
A trio of unusual C64 power supplies, both aftermarket and OEM  
22:48

A trio of oddball C64 power supplies: All vintage, 2...  
786 views • 1 month ago



**Perengi Friday**  
A trio of slabtops, a stack of old Macs, and a big box of misc. vintage goodies  
55:03

A trio of slabtops, a stack of old Macs, and a big box of...  
573 views • 1 month ago



**CASIO VX-4 REPAIR 2**  
Extreme PCB repair of battery leak damage. Can we save this Pokenon?  
34:34

Casio VX-4 Repair 2 - Extreme PCB repair of...  
536 views • 1 month ago



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## A Systematic Approach

- Doing things in logical order
- What do you do if you lose your keys?



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## Four senses

- Smell
- Sight
- Sound
- Taste



# VINTAGE COMPUTER REPAIR 101

~~Four~~ 3 senses

- Smell
- Sight
- Sound
- ~~Taste~~



# VINTAGE COMPUTER REPAIR 101

## Stage 1 Checks - PCR

- Power
- Clock
- Reset



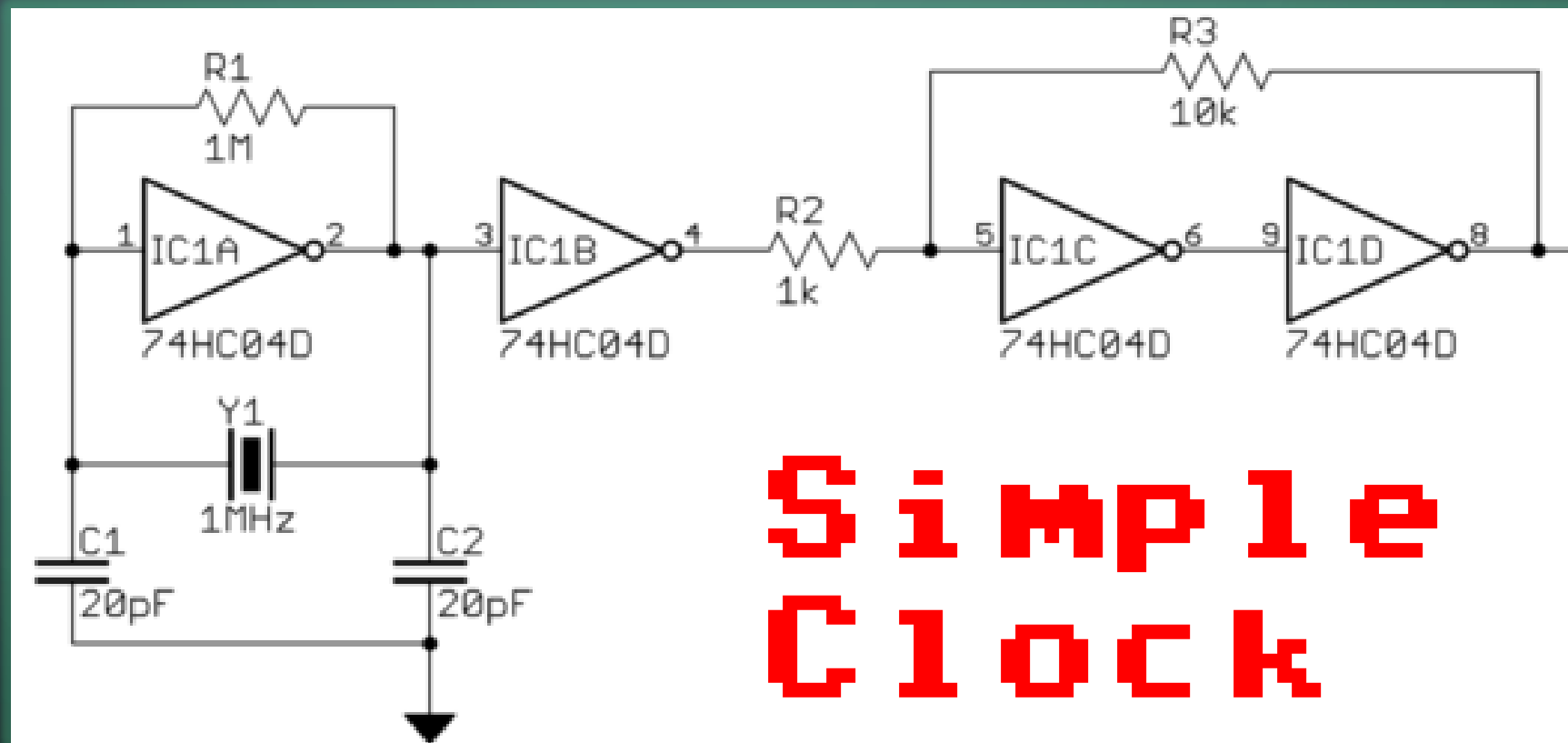
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## Power



# VINTAGE COMPUTER REPAIR 101

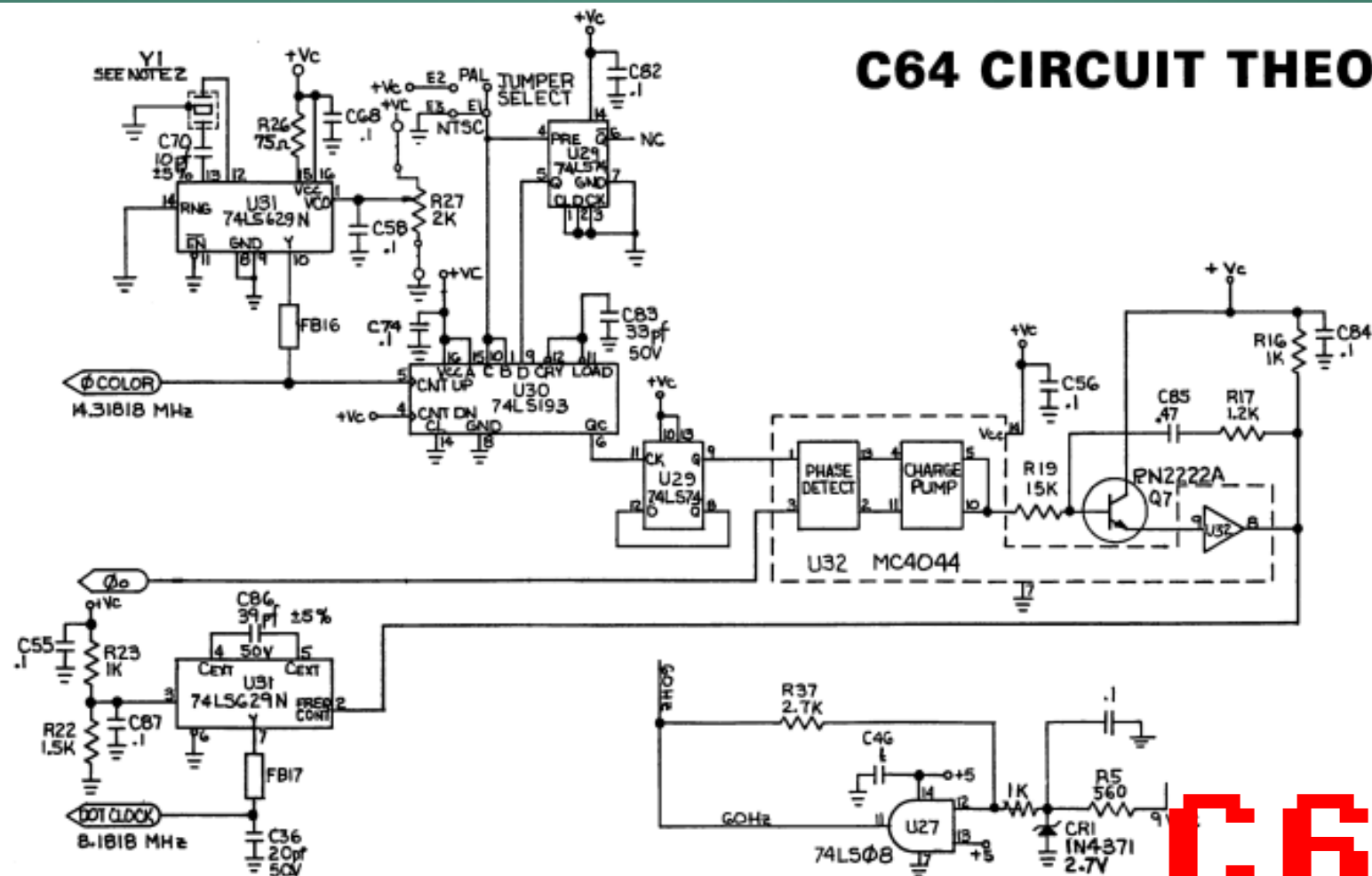
## Clock



**7100**

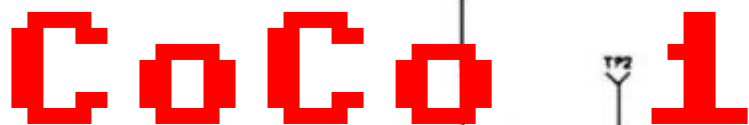


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**C64**

## Reset







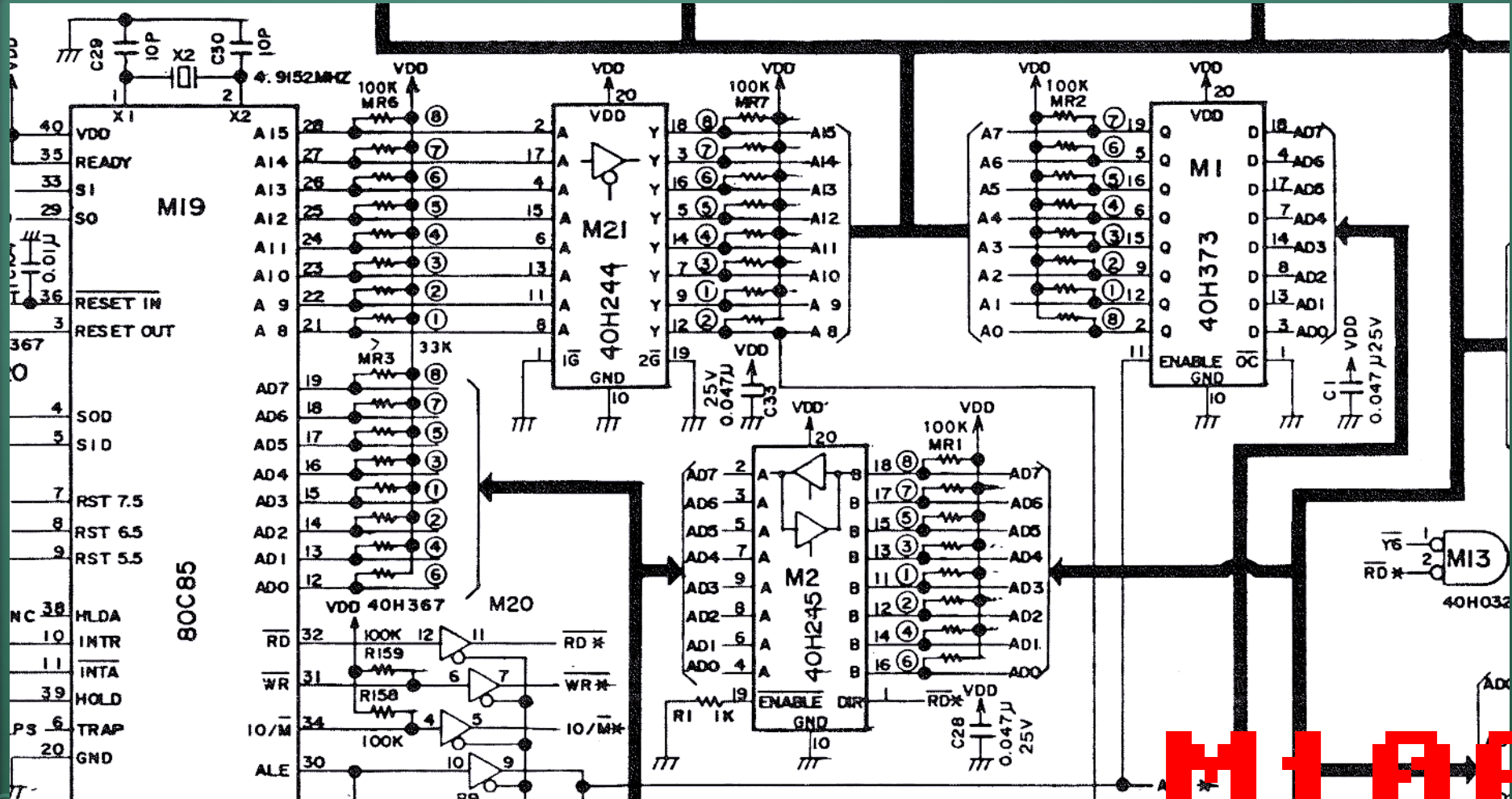
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## Stage 2 Checks - BADS

- Bus
- Address Decoding
- chip Selects



# VINTAGE COMPUTER REPAIR 101

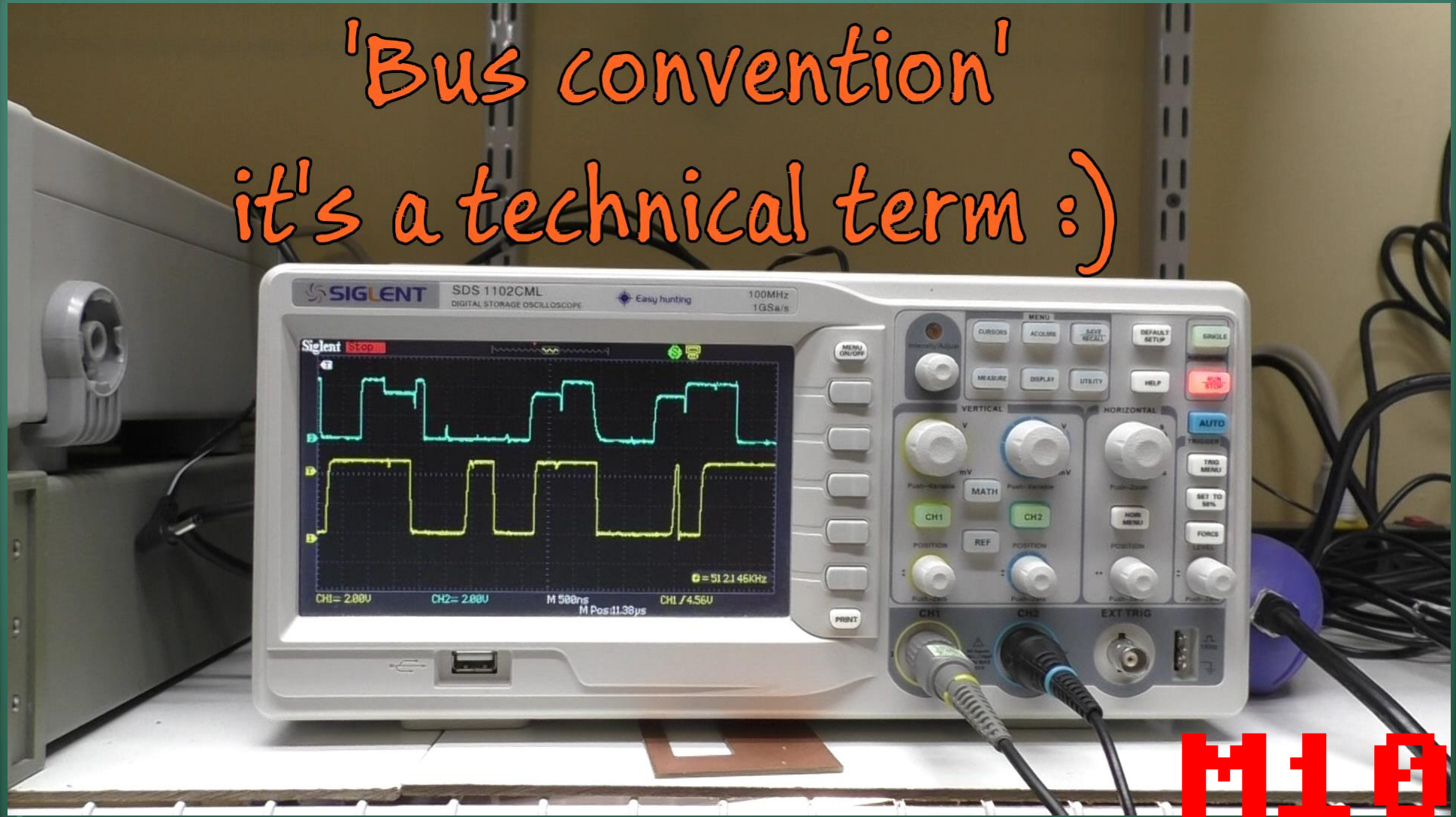


M100



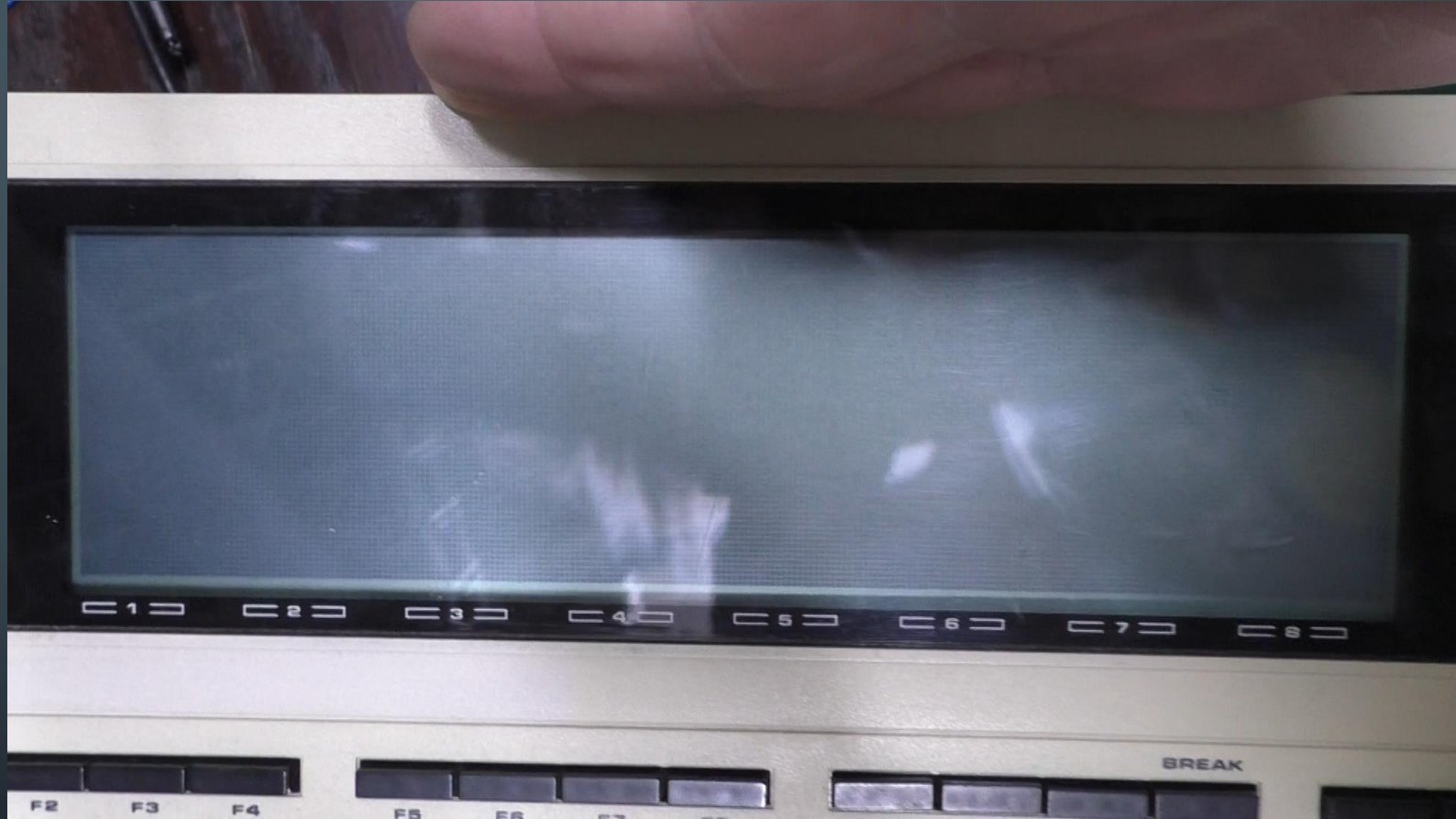
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'Bus convention'  
it's a technical term :)



M100

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**M100**

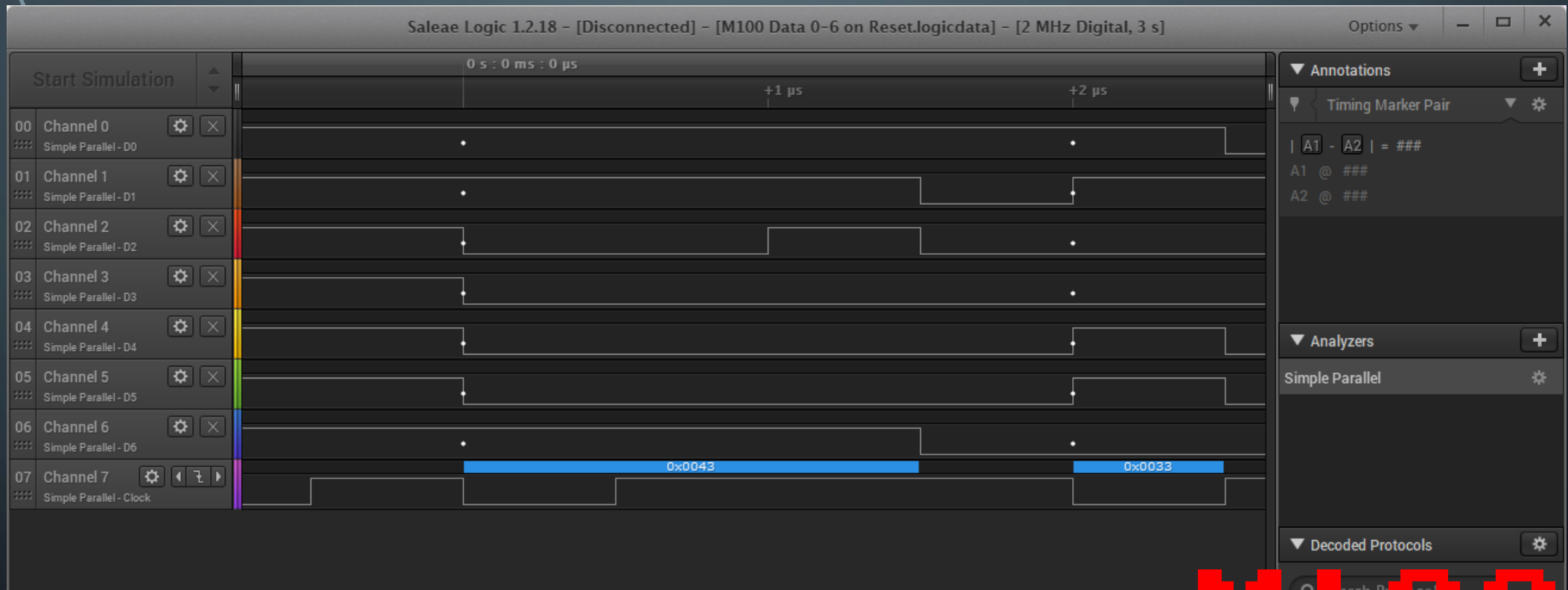


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## Stage 3 Checks – Testing Aides

- Diagnostic ROM
- Diagnostic Cartridge
- Diagnostic Harness

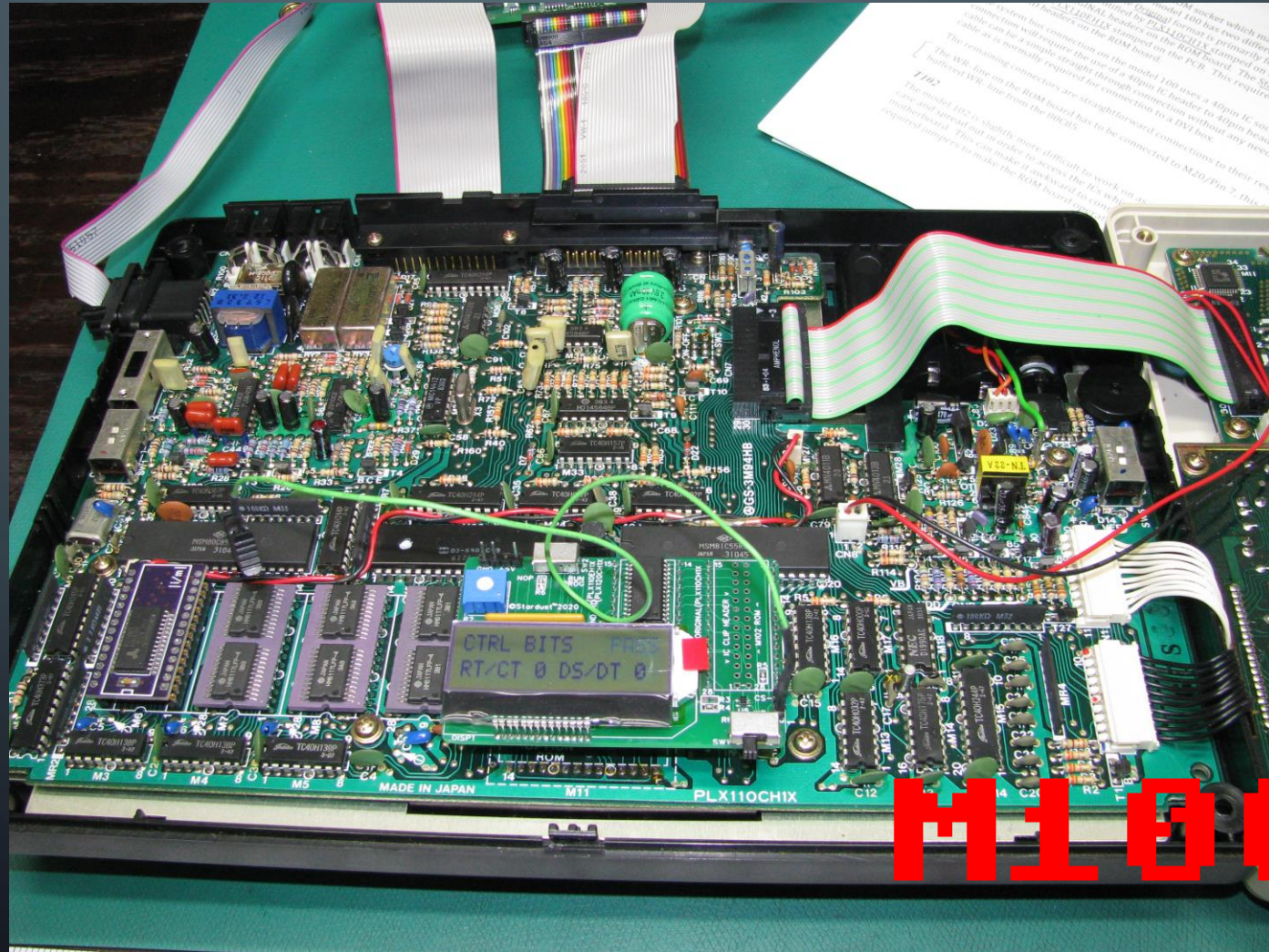
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M100



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M100





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## Basic Tool Set

- Hand tools
- Multimeter, Component tester
- Soldering iron/Solder sucker/braid
- Logic probe





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## Advanced Tool Set

- Oscilloscope
- Logic Analyzer
- Desoldering tool / Rework Station
- Solder braid

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Hakko & Clones



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Questions?