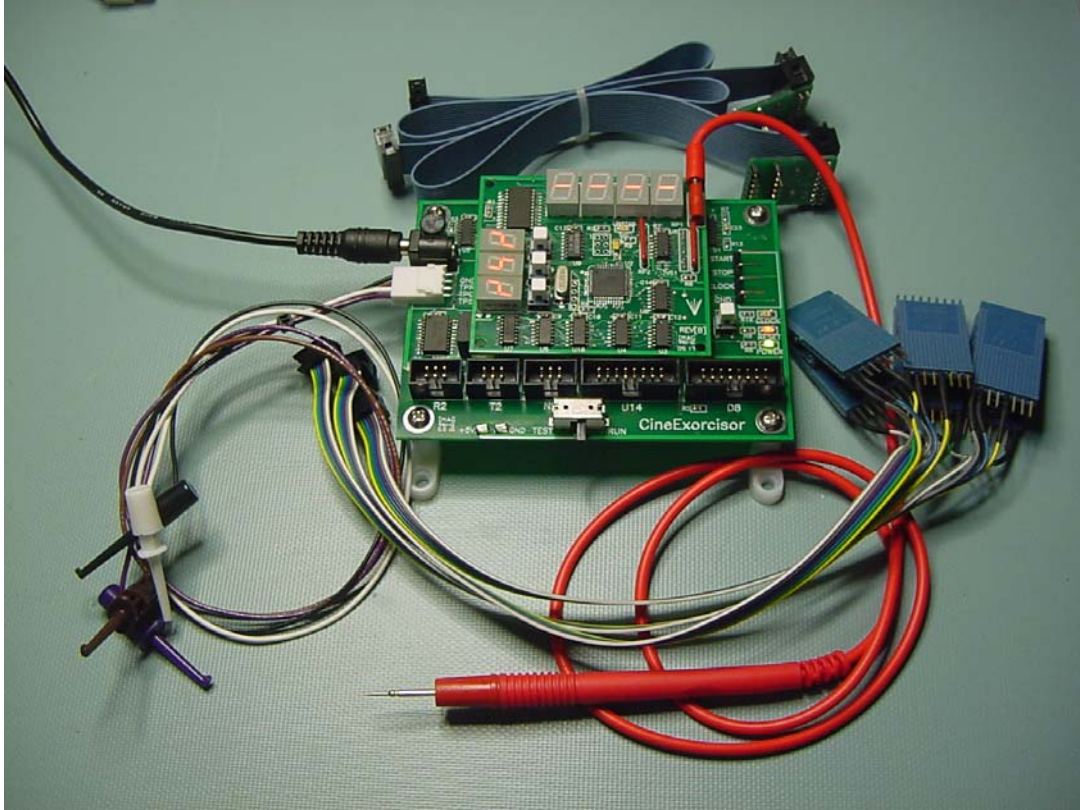


GEN2 Cinematronics Exorcisor

Quick Start Guide

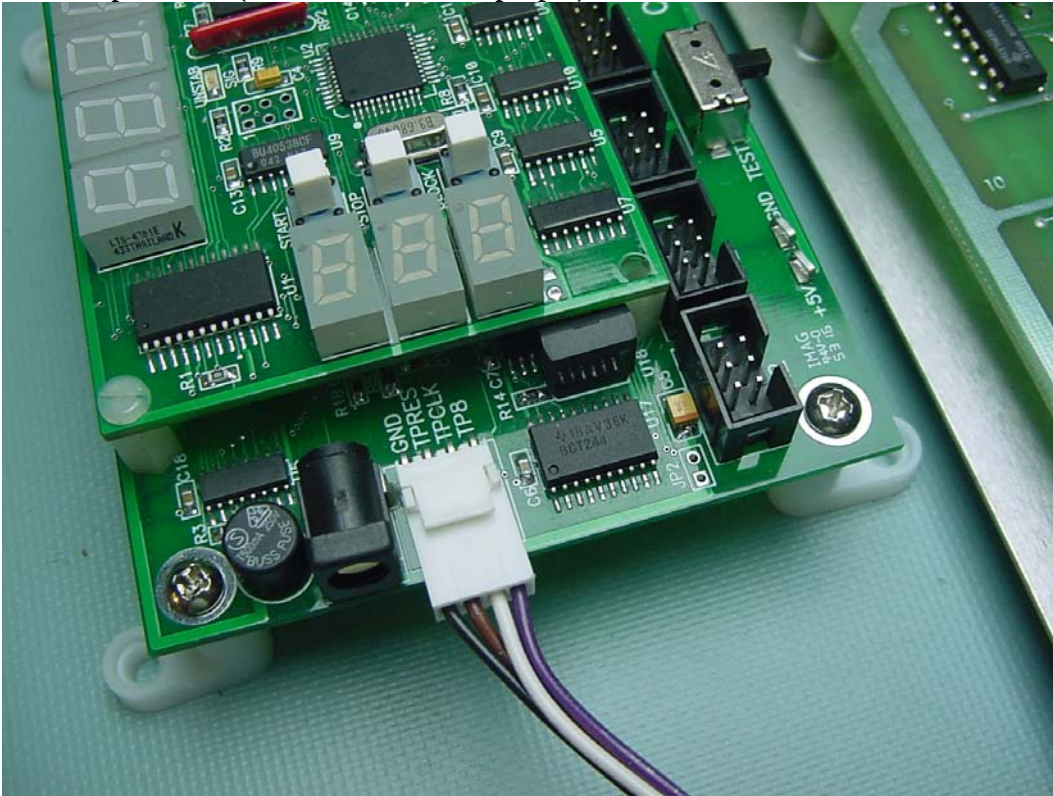


If you are familiar with the original Cinematronics Exorcisor and the basics of Signature Analysis then this guide is for you. If not, it is HIGHLY recommended that you take some time to learn it, as it will save you time and frustration in use of this product and trouble shooting Cinematronics CCPU boards in general.

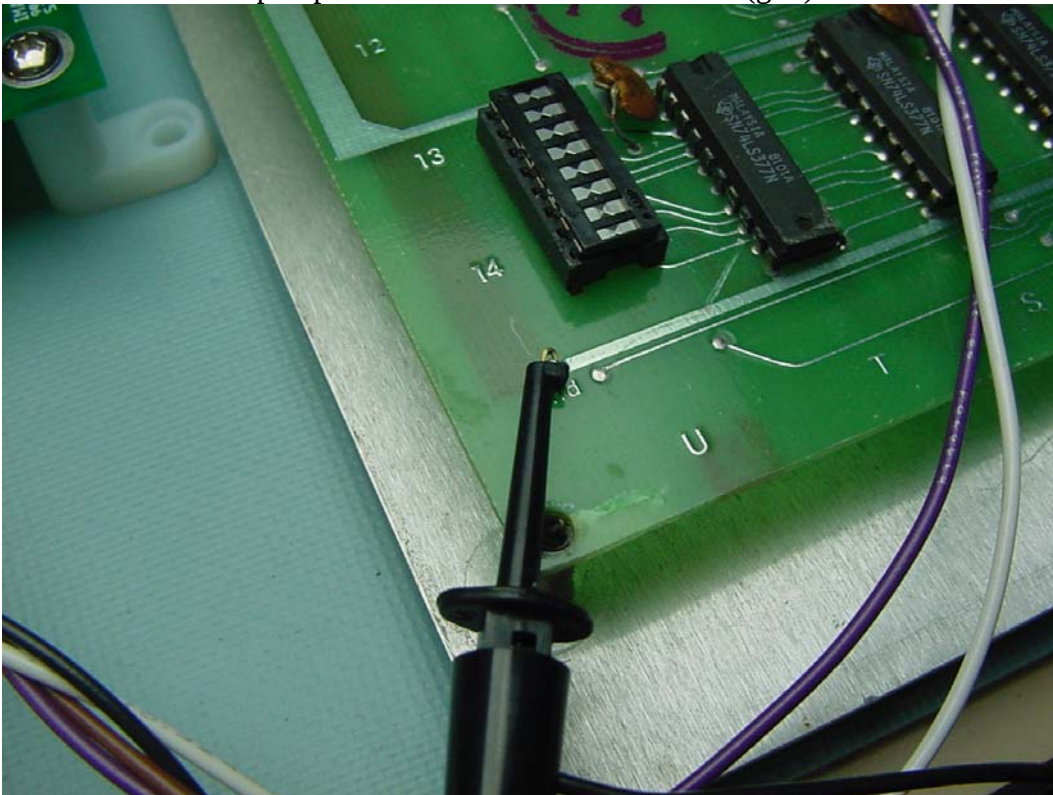
Generation2 Cinematronics Exorcisor Features

- Includes all items pictured above including power adapter
- Single TEST/RUN switch makes testing quick & easy
- No need to Plug/Unplug cables between modes
- Signature analyzer daughter card with handy probe
- Start, Stop, & Clock polarity set via push buttons
- Handy Power, Clock, and Reset status LED's
- Optional USB cable to transfer signatures to PC
- Setup, Trouble shooting & Diagnostics manual
- Makes repairing Cinematronics CPU boards much quicker
- Optional speech board for speaking signatures
- Keeps eyes focused on probing pins rather than displays

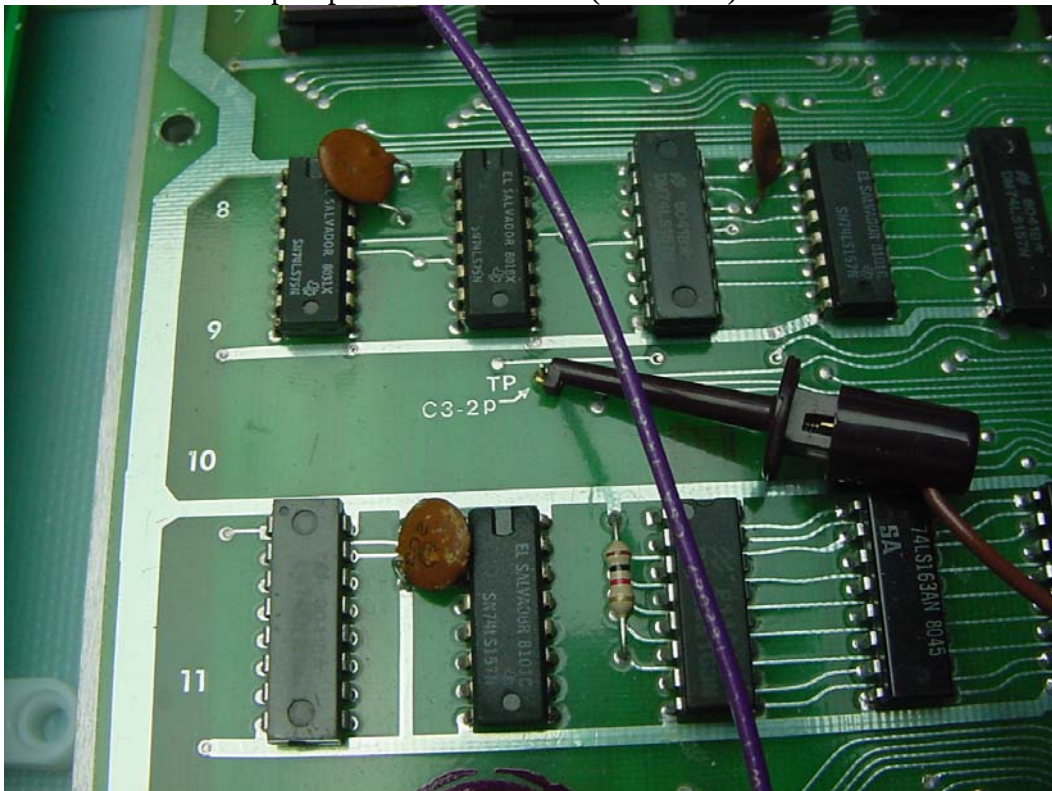
Install four included stand off's and make sure slide switch is in the RUN position. Attach 4pin cable (black/brown/white/purple) as shown below.



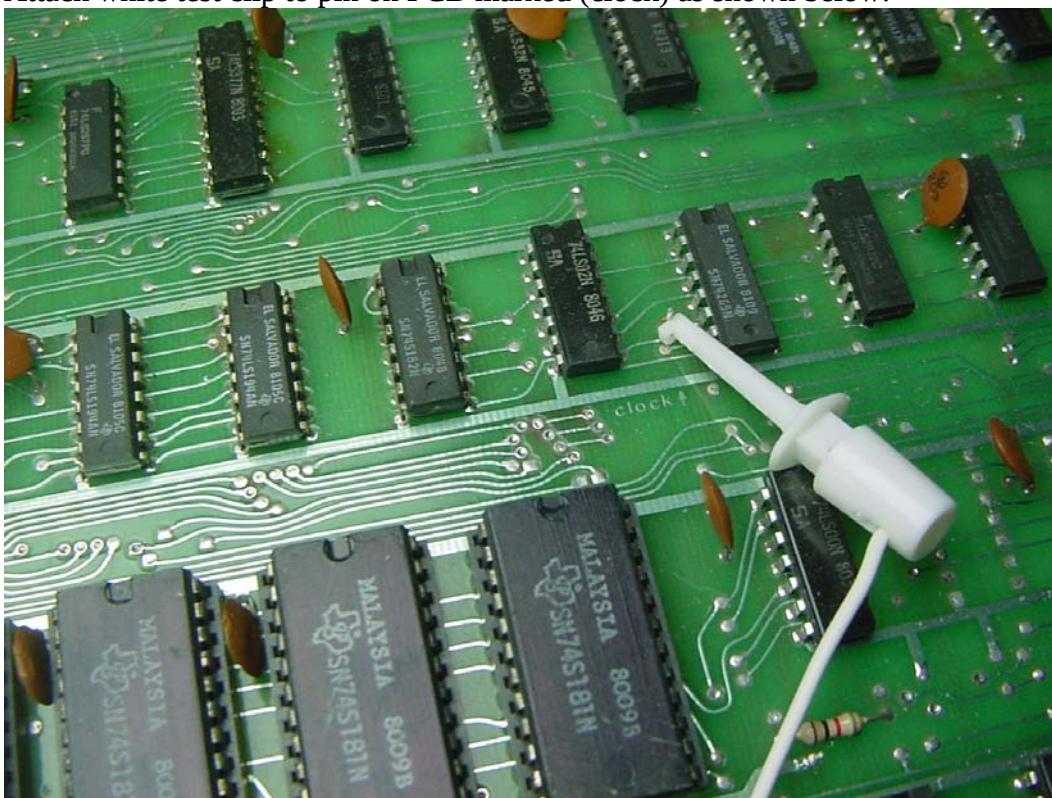
Attach black test clip to pin on PCB close to U14 marked (gnd).



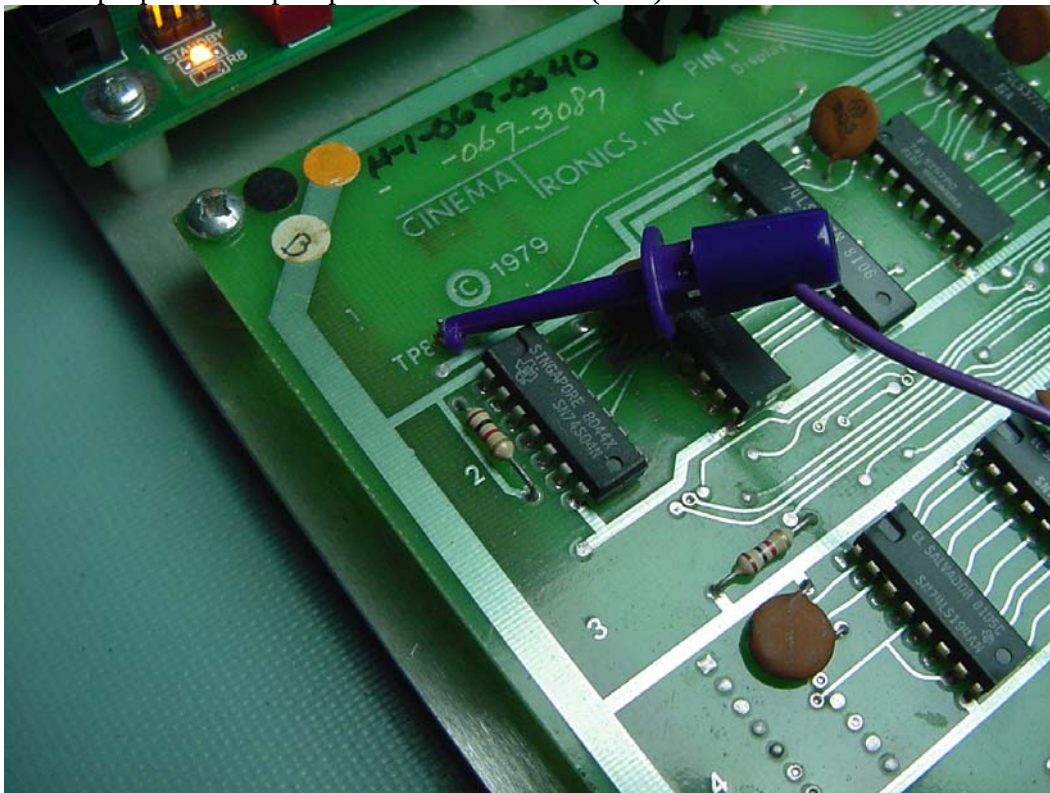
Attach brown test clip to pin on PCB marked (TP C3-2P) as shown below.



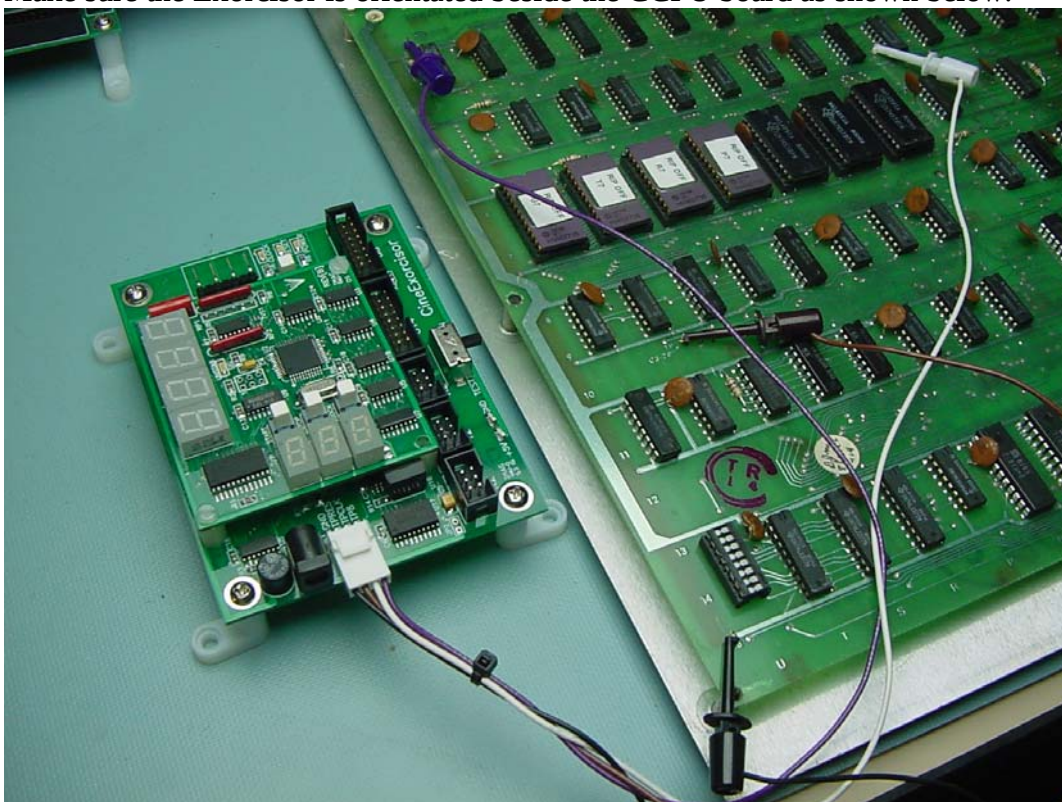
Attach white test clip to pin on PCB marked (clock) as shown below.



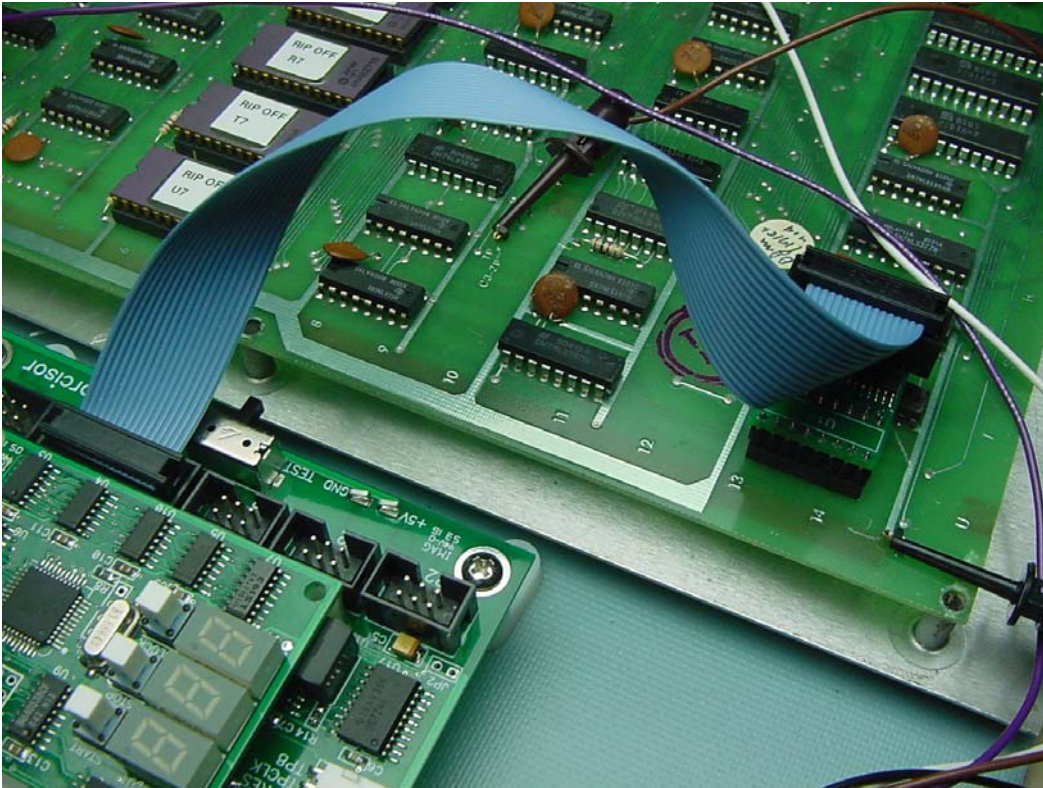
Attach purple test clip to pin on PCB marked (TP8) as shown below.



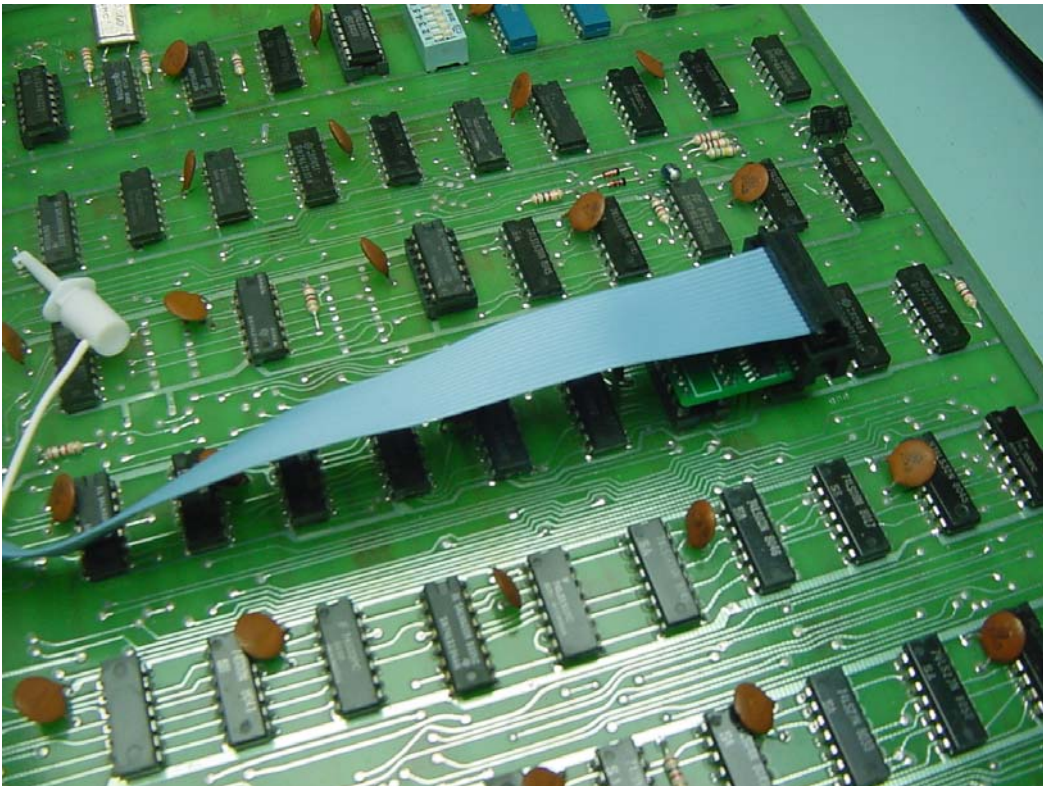
Make sure the Exorcisor is orientated beside the CCPU board as shown below.



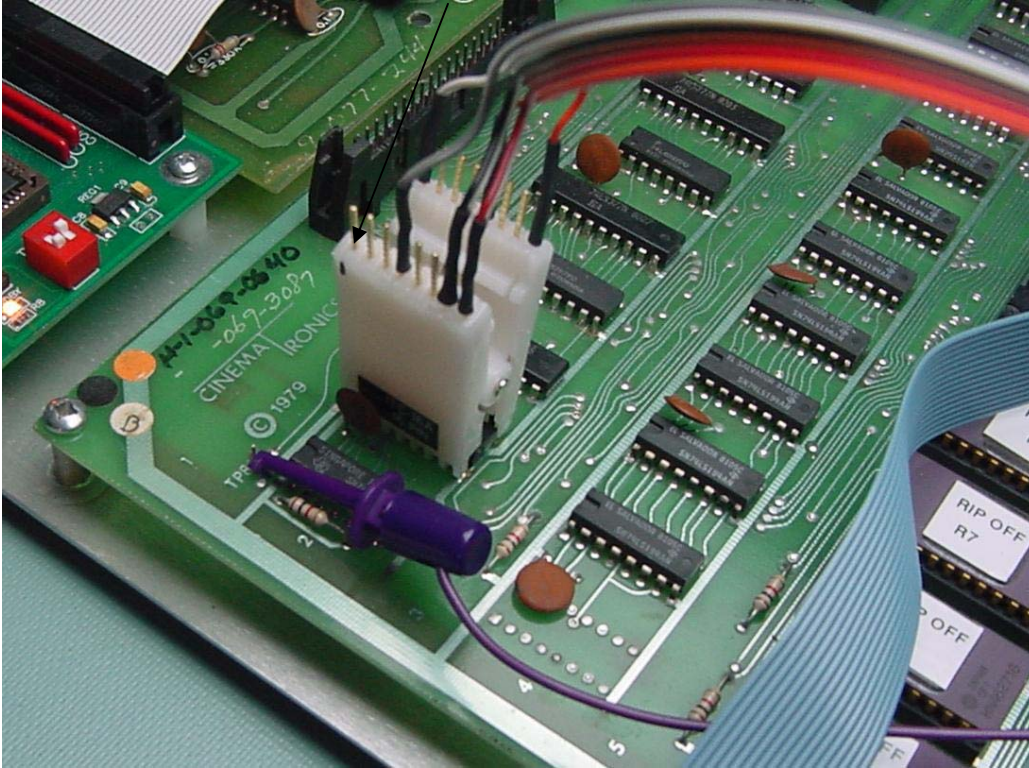
Remove jumper block at location U14, then plug in shorter ribbon cable into Exorcisor and CCPU board as shown below.



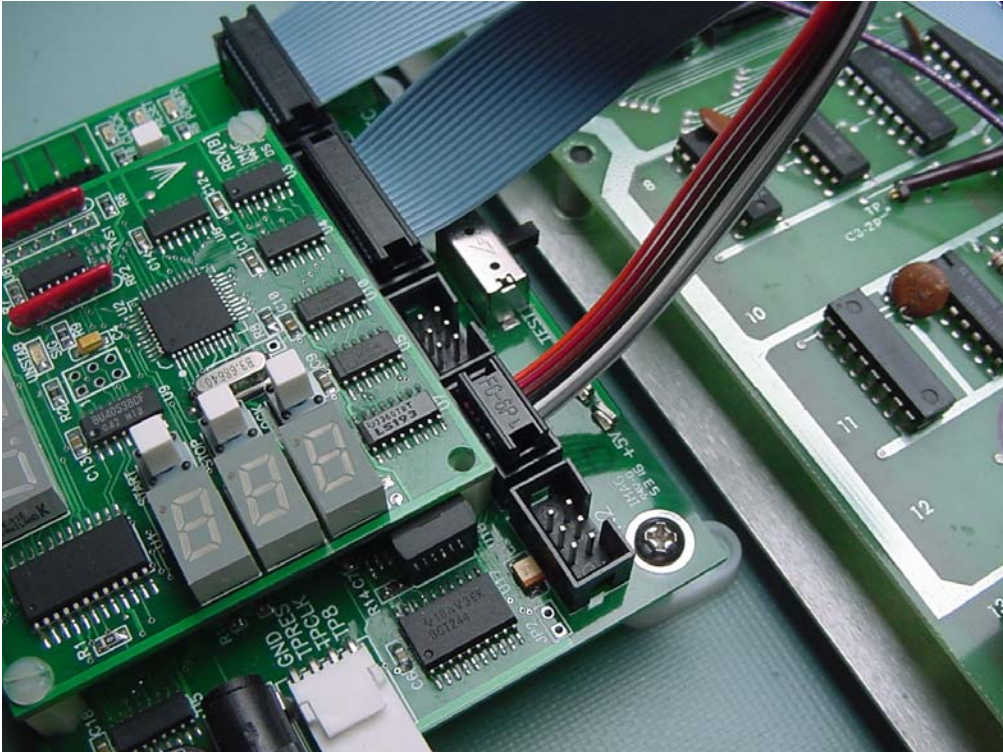
Remove jumper block at location D8, then plug in longer ribbon cable into Exorcisor and CCPU board as shown below.



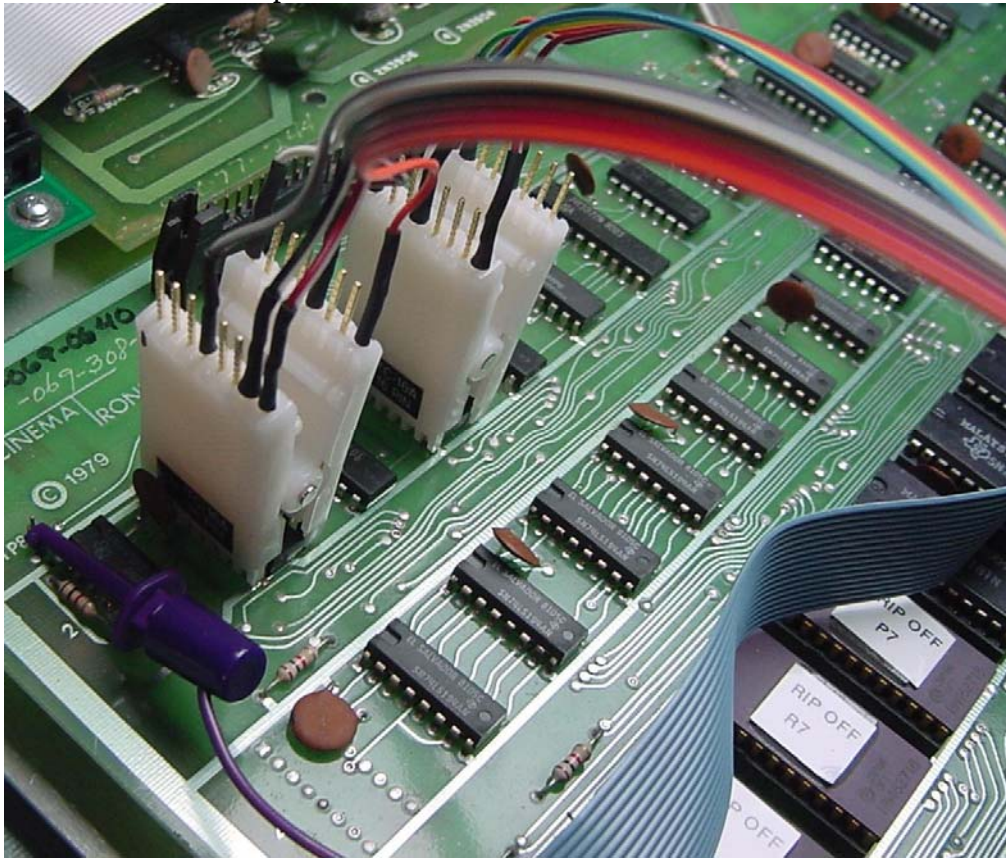
There are three 16pin DIP Clips with attached 6pin ribbon cables included with the Exorcisor. Each is wired identically and are interchangeable with each other and are marked with a (1) indicating PIN1 as shown below. Attach the first clip to IC at location T2 on CCPU board.



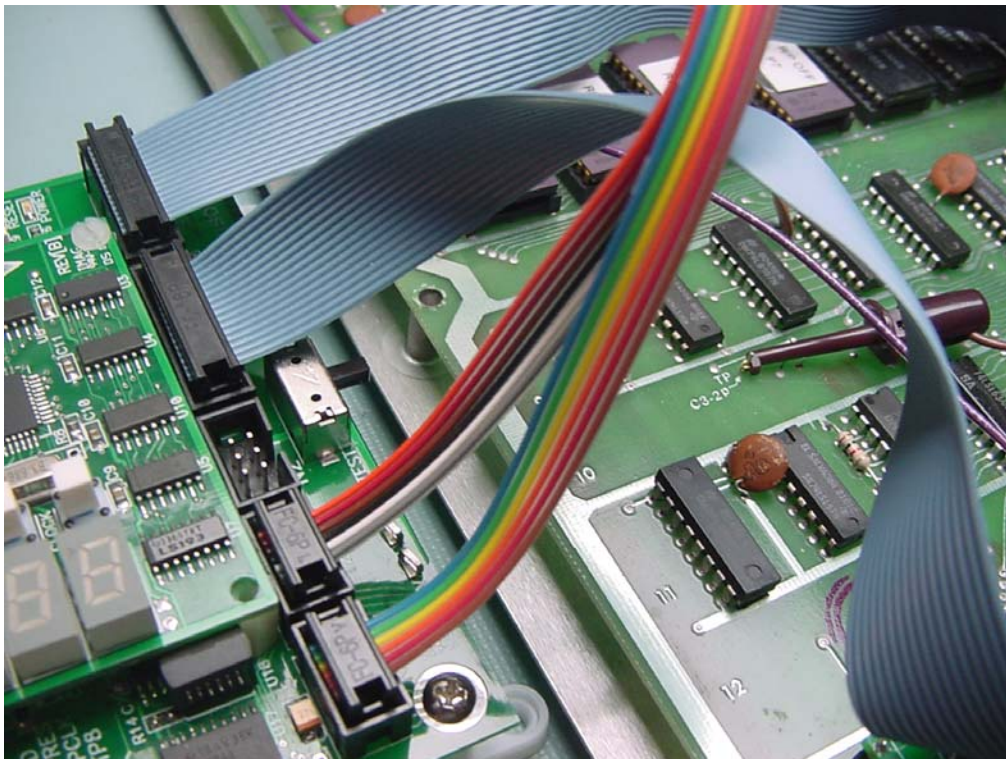
Attach other end into connector marked T2 on Exorcisor as shown below.



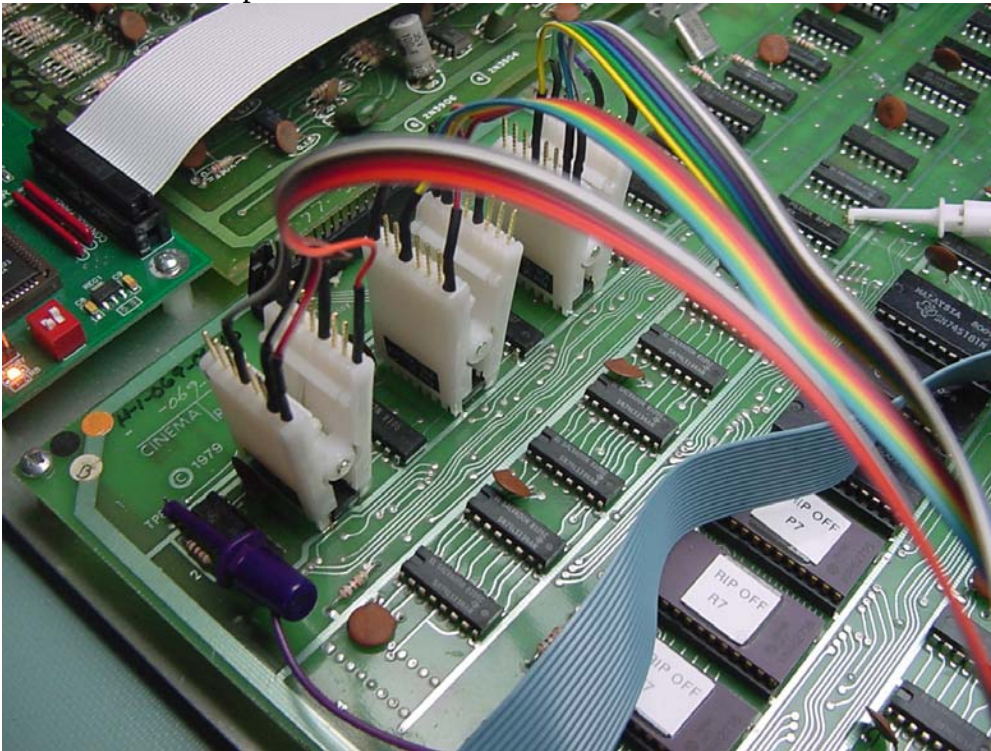
Attach the second clip to IC location R2 on CCPU board as shown below.



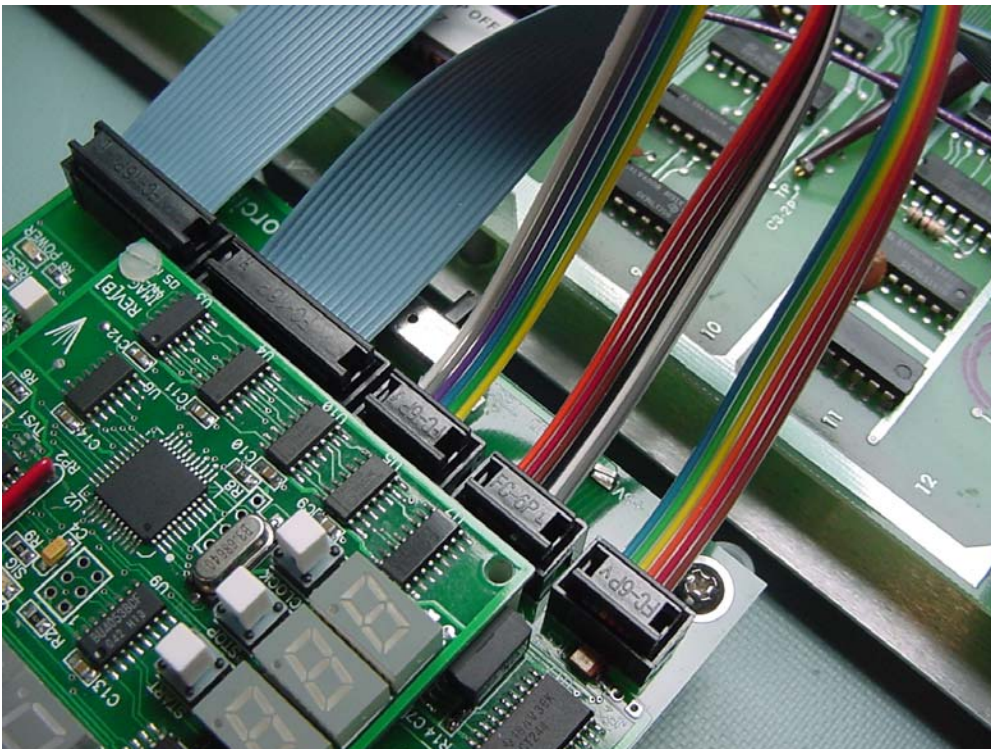
Attach other end into connector marked R2 on Exorcisor as shown below.



Attach the third clip to IC location N2 on CCPU board as shown below.

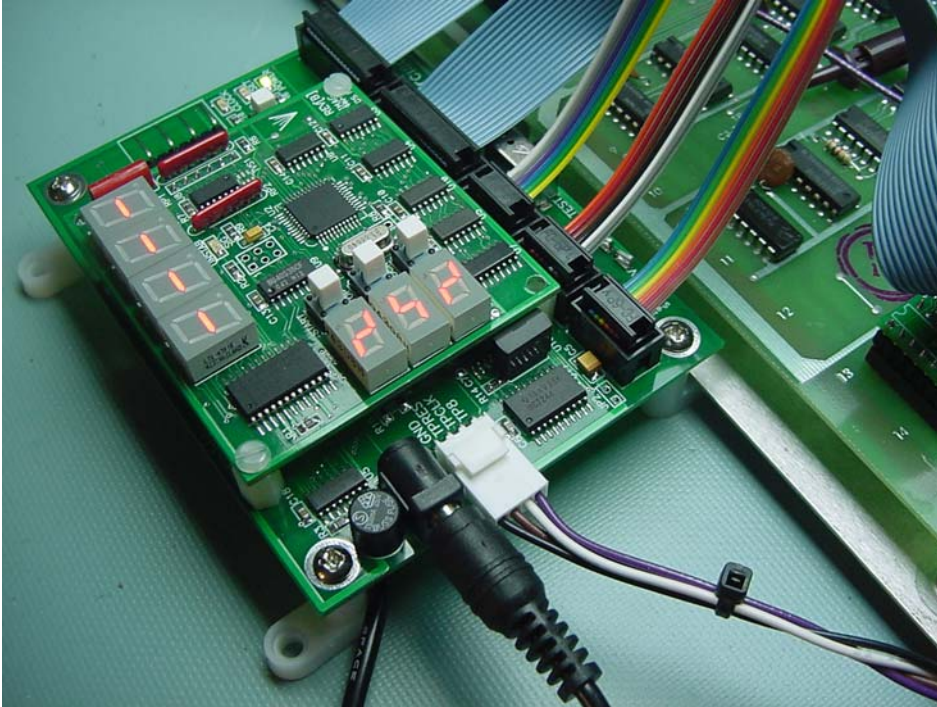


Attach other end into connector marked N2 on Exorcisor as shown below.

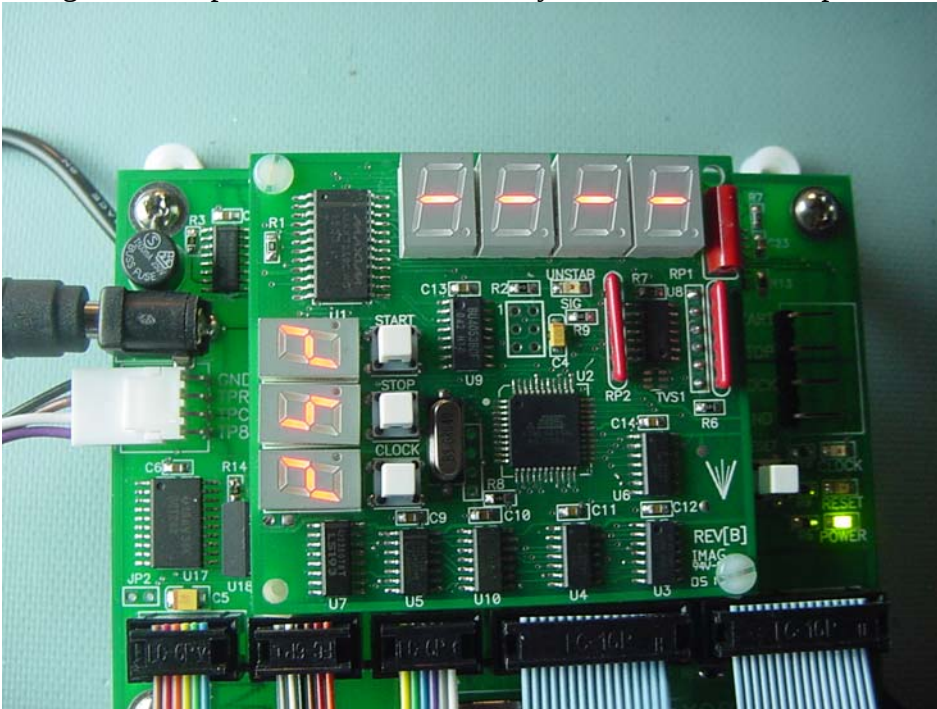


Although the DIP clips are interchangeable it is recommended that you mark each one with its associated location on the CCPU board T2, R2 & N2.

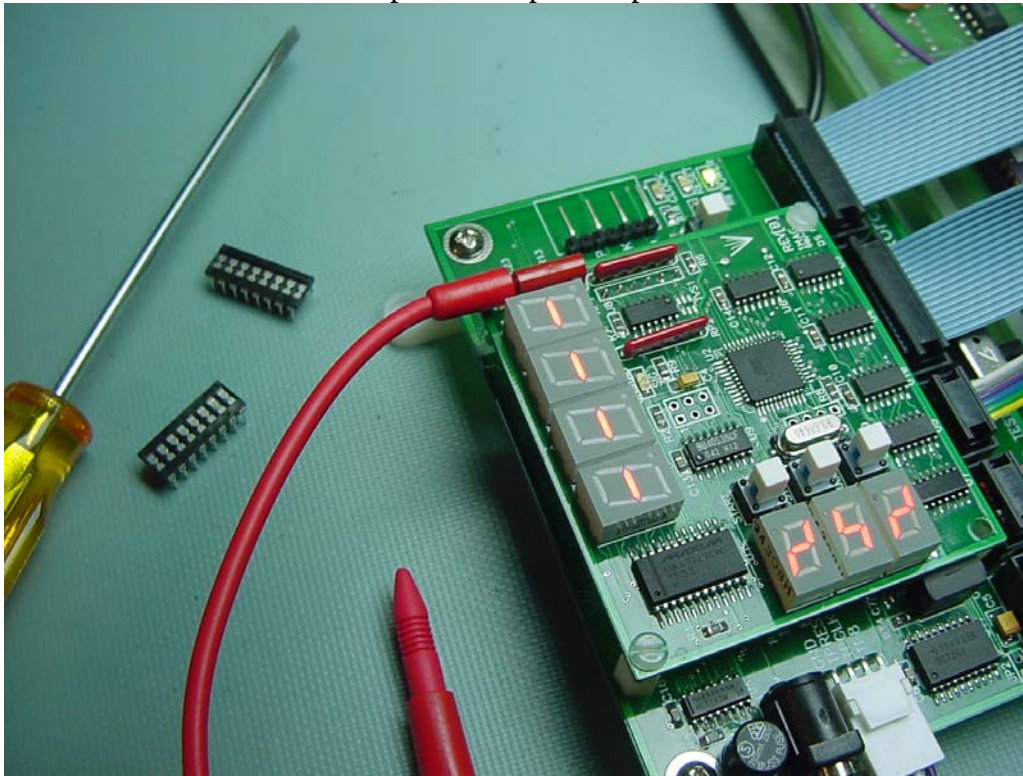
Attached included wall adapter into power source and plug into Exorcisor. The Exorcisor will power up with the displays lit as in the picture below.



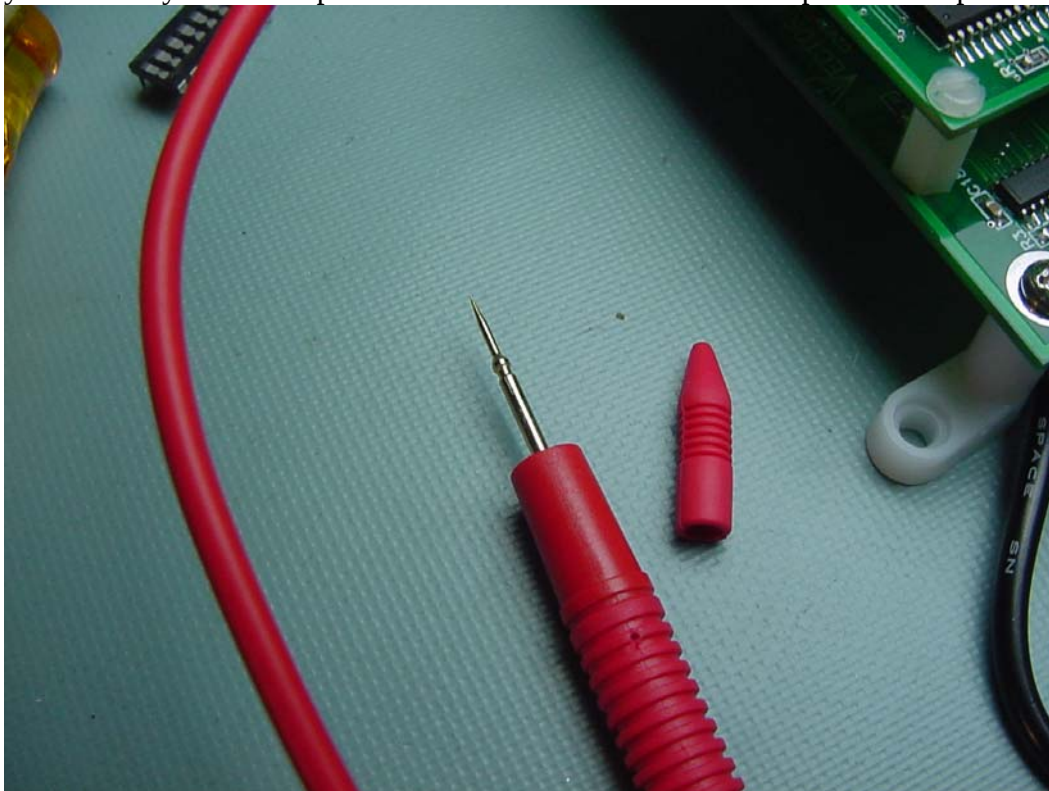
Notice the three displays beside push buttons labeled START, STOP, & CLOCK. These displays indicate the Rising or Falling edge triggering for each of these signals. The settings always power up default to START=falling edge STOP=rising edge and CLOCK=falling edge which are the Cinematronics standard settings. They can be changed via the push buttons, but will only be in that state until power off.



Insert Red or Black DATA probe into pin receptacle as shown below.



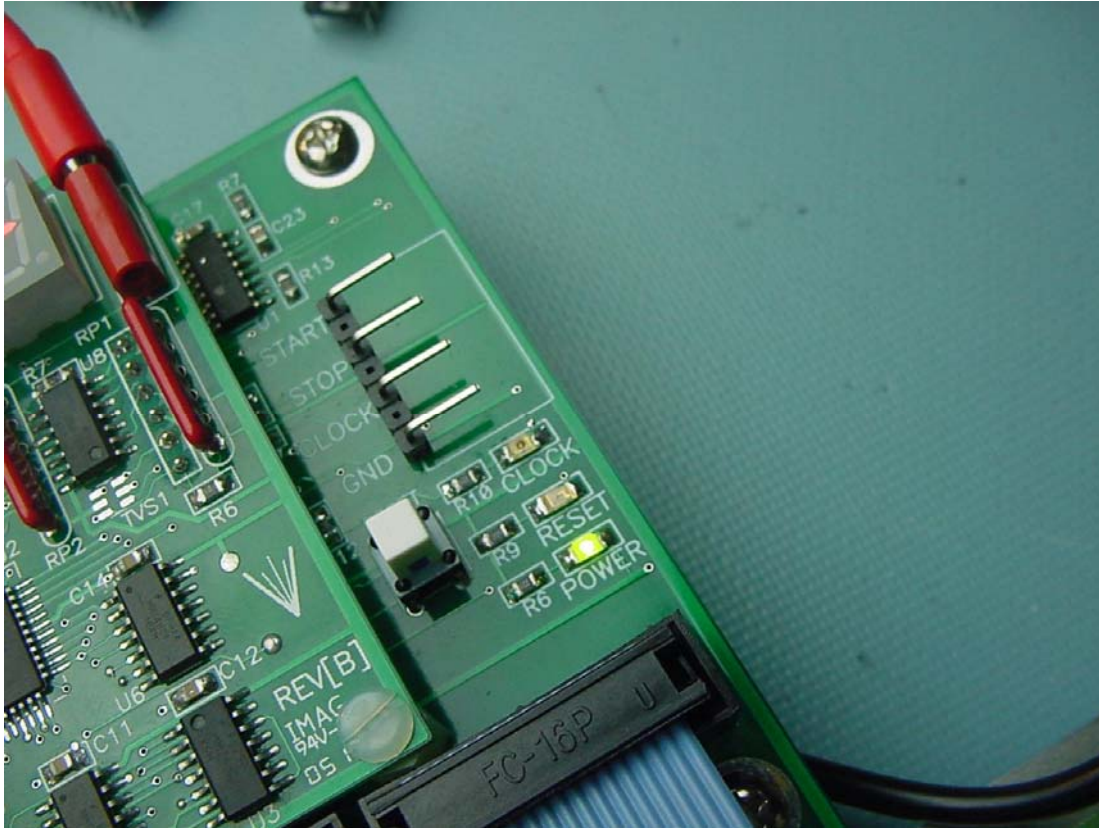
Attached to the tip of the DATA probe is a plastic protector, remove it whenever you are ready to use the probe as shown below. Otherwise keep it on the tip.



The tip is very sharp and was selected to be able to probe IC pins that have tarnish.

IMPORTANT INFORMATION PLEASE READ AND UNDERSTAND FULLY

Notice the 4pin connector on the right side of the Exorcisor board. You can connect these pins to a HP 5006A analyzer but you **MUST** remove the signature analyzer daughter card on top of the Exorcisor via the two nylon screws **FIRST** after the unit is powered off.



To validate that the Exorcisor is working properly you **MUST** start with a 100% working CCPU board and a stable (+4.95V to +5.15V power supply. Unlike the original Exorcisor The GEN2 has its own independent +5v supply via the wall adapter as such it does not draw any power from the CCPU board under test.

Power up the CCPU board under test and then flip the slide switch to the TEST position for verification of the Exorcisor output signatures as extracted from the original manual from Cinematronics shown on the next page.

Verifying the Exorciser output signatures

With the analyzer's data probe verify the following signatures at the specified locations:

DIP plug D8 pin signature

#4 7825
#5 655C
#9 802H
#10 6PF3
#11 8UC2
#14 2518
#15 0000
#16 U6HH

DIP plug U14 pin signature

#9 5555
#10 CCCC
#11 7F7F
#12 5H21
#13 0AFA
#14 UPFH
#15 52F8
#16 HC89

DIP clip N2 pin signature

#4 F469
#7 PH6F
#9 211U
#12 H28U

DIP clip R2 pin signature

#4 A69C
#7 47F6
#9 8CC5
#12 510F

Dip clip T2 pin signature

#4 615F
#7 A928
#9 A29F
#12 96FC

*****NOTE that on power up of the CCPU board the (power) and (clock) led's will be lit on the GEN2 Exorcisor while in the RUN mode. If the clock led is not lit then no clock is present on the CCPU board and you cannot continue until this fault is resolved. The RESET led should not be lit during RUN mode, but will be during TEST mode indicating that the Reset signal is active.***

IF YOU HAVE ANY PROBLEMS OR SUGGESTIONS ON HOW TO IMPROVE THIS
INSTALL GUIDE PLEASE CONTACT VECTOR-LABS@TX.RR.COM

THANK YOU FOR YOUR PURCHASE