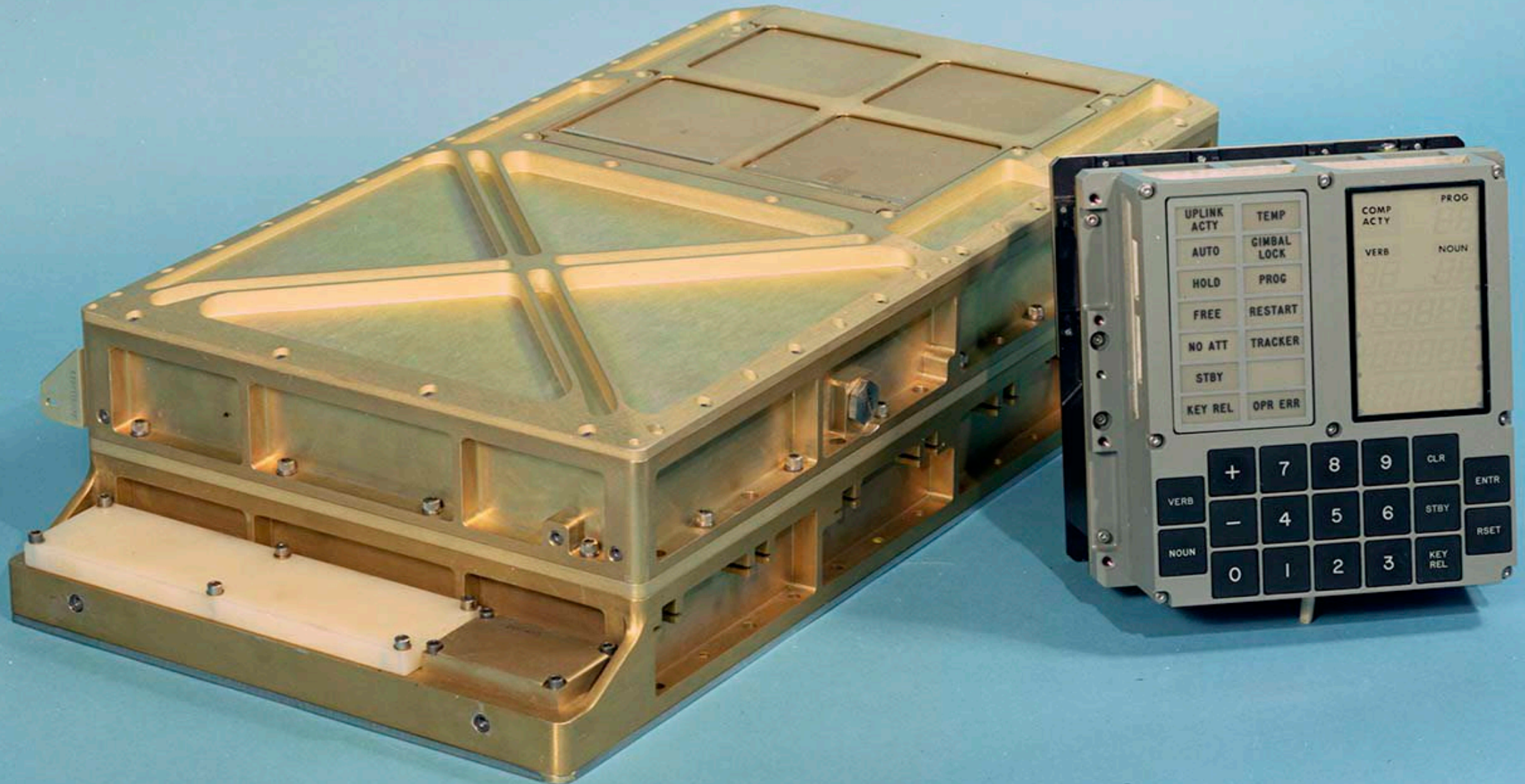


Restoring an Apollo DSKY

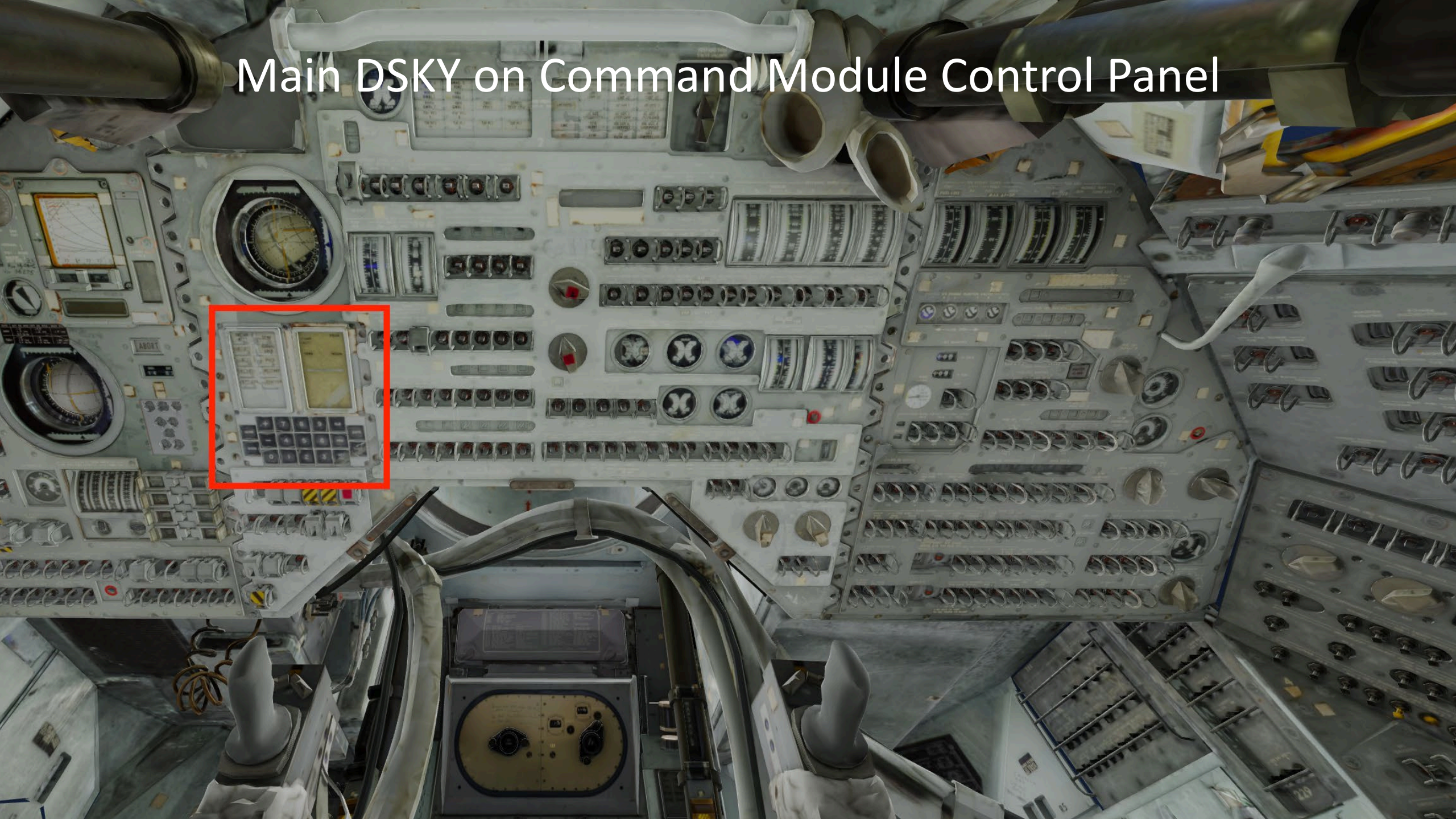


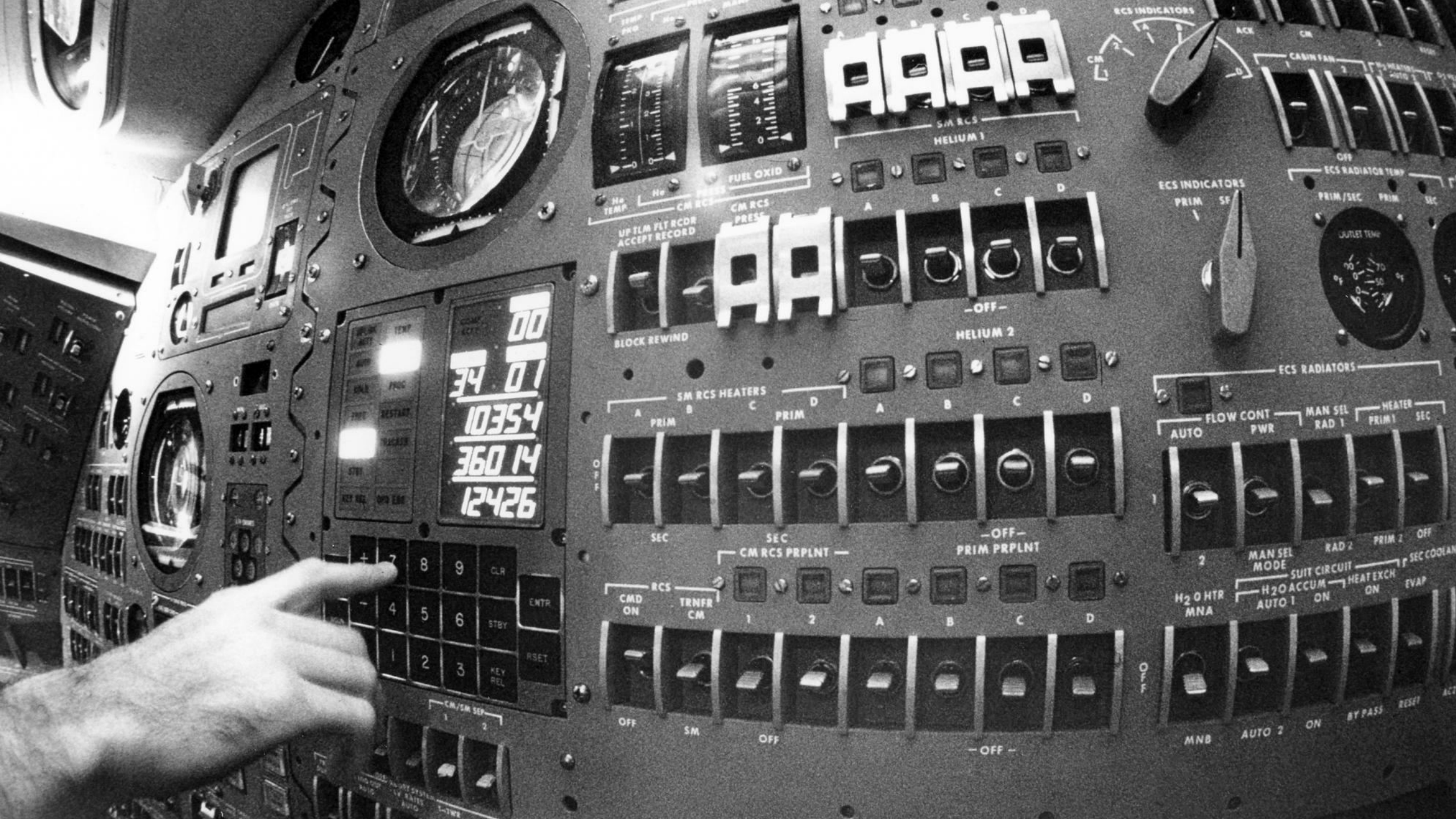
Marcel DePaolis, Mike Stewart, Eric Schlaepfer, Ken Shirriff, Carl Claunch, Marc Verdiell

Block II Apollo Guidance Computer with DSKY
(DiSplay and KeYboard)



Main DSKY on Command Module Control Panel





SM RCS
HELIUM 1

UP FLA FLT RCDR
ACCEPT RECORD

BLOCK REWIND

HELIUM 2

SM RCS HEATERS

PRIM D

SEC

CM RCS PRPLNT

RCS

CMD ON

TRNFR CM

1 2 A B C D

OFF SM OFF

OFF

ECS INDICATORS

PRIM SEC

ECS RADIATOR TEMP

PRIM/SEC PRIM SEC

OUTLET TEMP

ECS RADIATORS

FLOW CONT PWR

MAN SEL RAD 1

HEATER PRIM1 SEC

2

MAN SEL MODE

RAD 2 PRIM 2 OFF

SUIT CIRCUIT

H2O ACCUM AUTO 1

HEATEXCH ON

EVAP

H2O HTR MNA

MNB

AUTO 2 ON

BY PASS

RESET



Navigation DSKY in the Lower Equipment Bay



DSKY in the LM

Sold at RRAuction (VCF Exhibitor!)

Lot #4351

Apollo Display and Keyboard Assembly (DSKY)

Scarce early generation of the Apollo DSKY—the mission-critical guidance computer interface



⊕ Click to expand

[< Previous Lot](#)

[Next Lot >](#)

This lot has closed

Sold For: \$87,175

*Includes Buyers Premium

Estimate: \$80000+

Sell a Similar Item?

SUBMIT FOR FREE EVALUATION

Share:



This DSKY was used in a simulator at MIT



Eldon Hall, principal engineer, MIT Instrumentation Lab

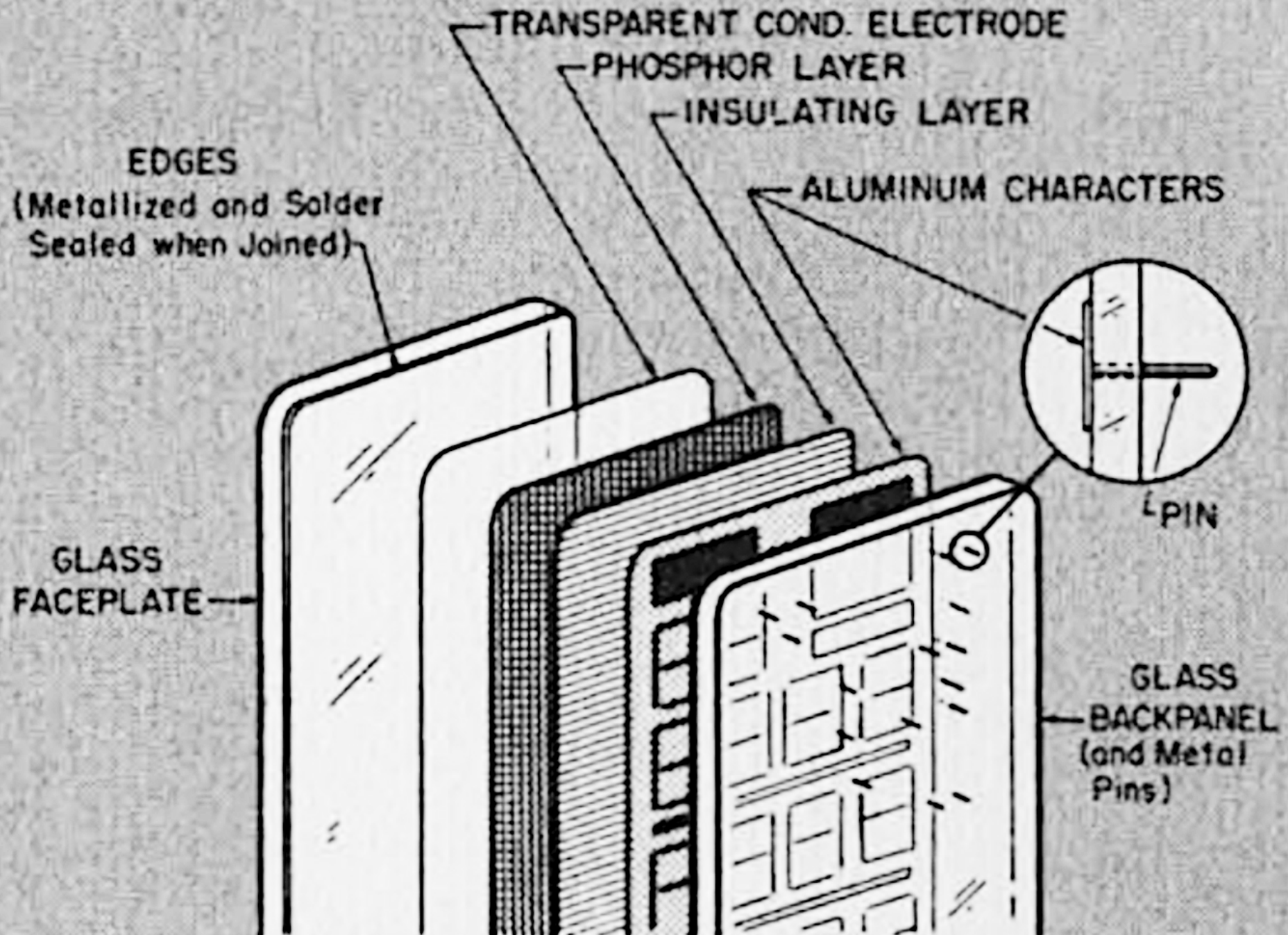


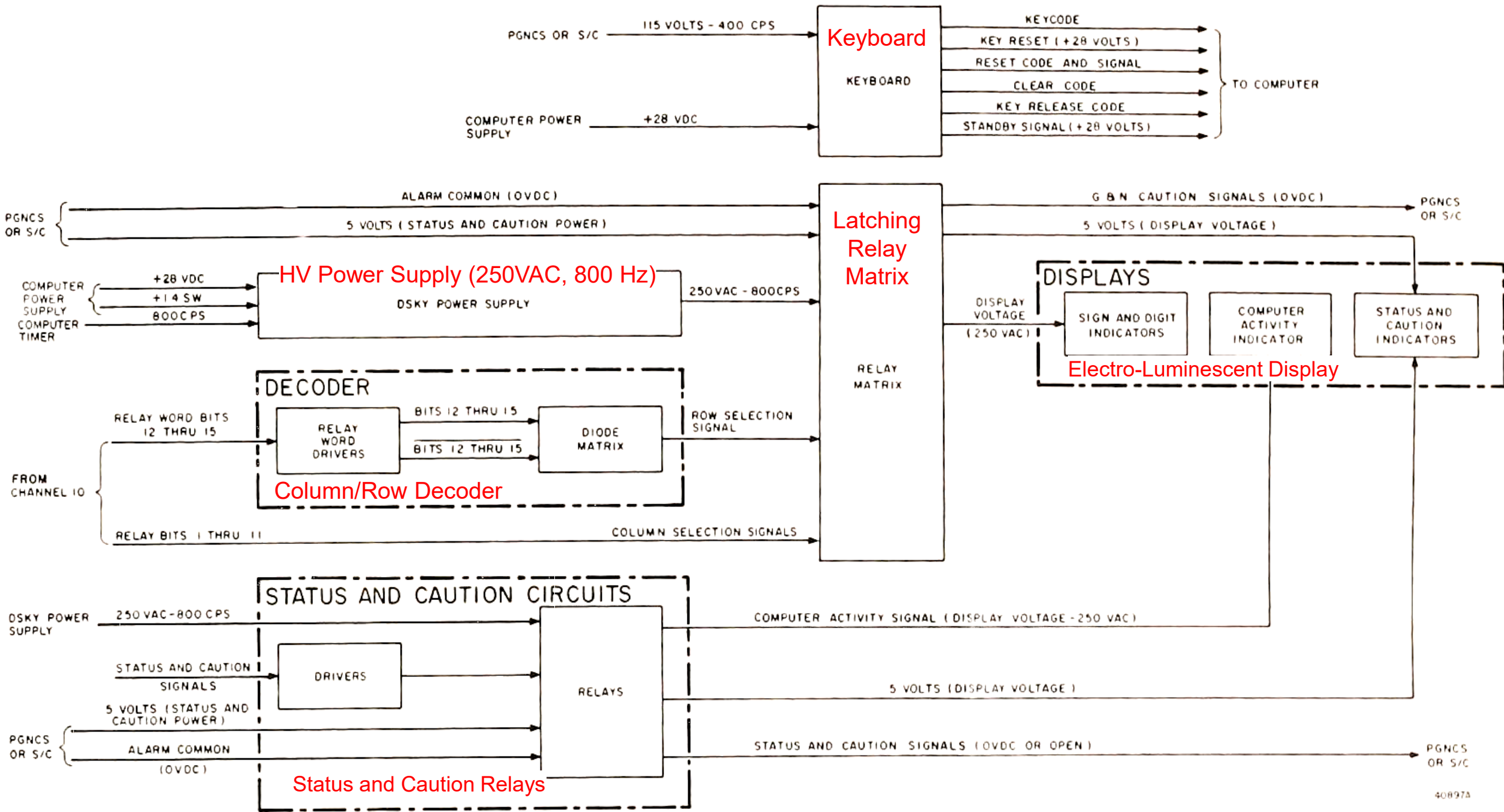
Our DKS Y is slightly broken...



Electro-luminescent Display

- Low power but 250V at 800 Hertz
- Flat screen, compact, cold to the touch
- vibration insensitive
- Loses 60% of brightness after 2000 hours

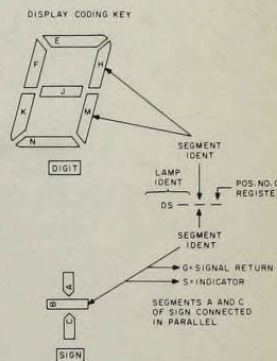




Grand Opening – Relay Matrix and Power Supply Module



ND-1021041
MANUAL



40603-1

Separating the two halves



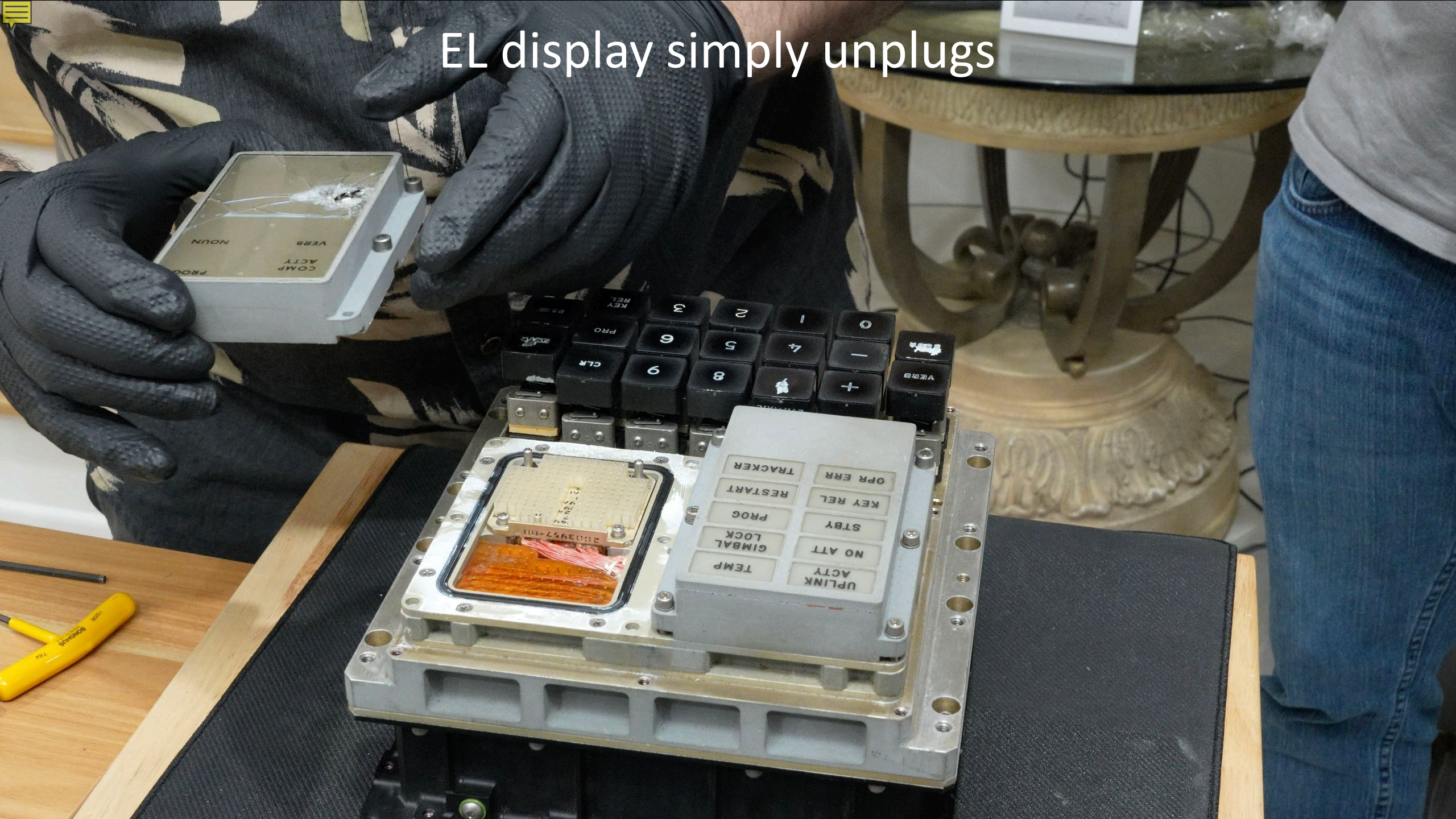
It is complete and in good shape



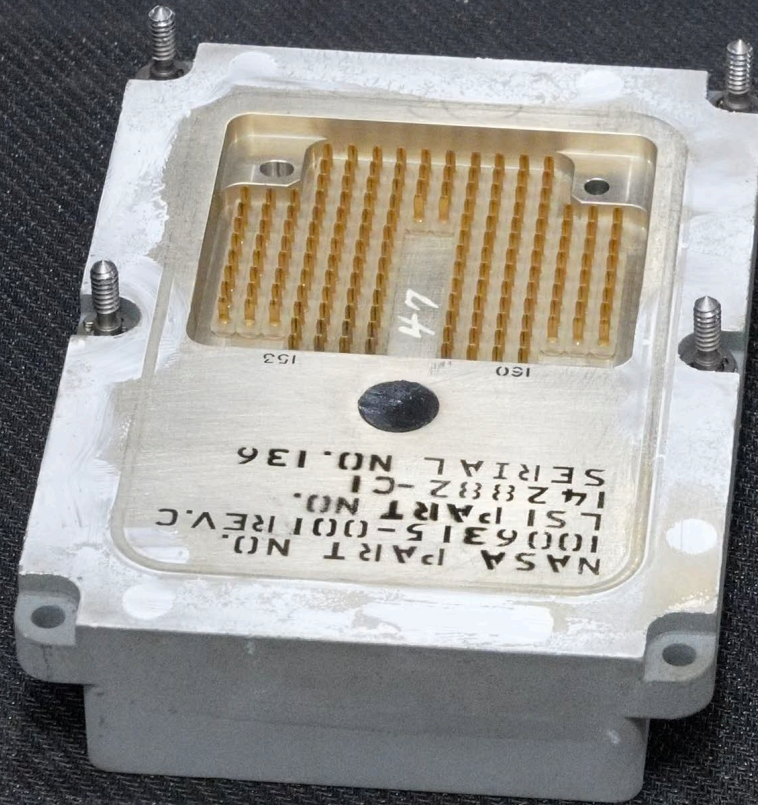
Removing the top cover



EL display simply unplugs



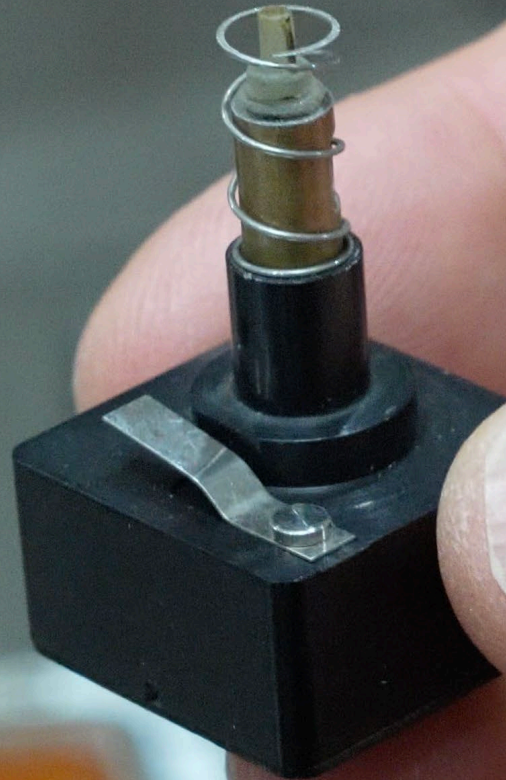
Back of display, Malco MiniWASP pin array



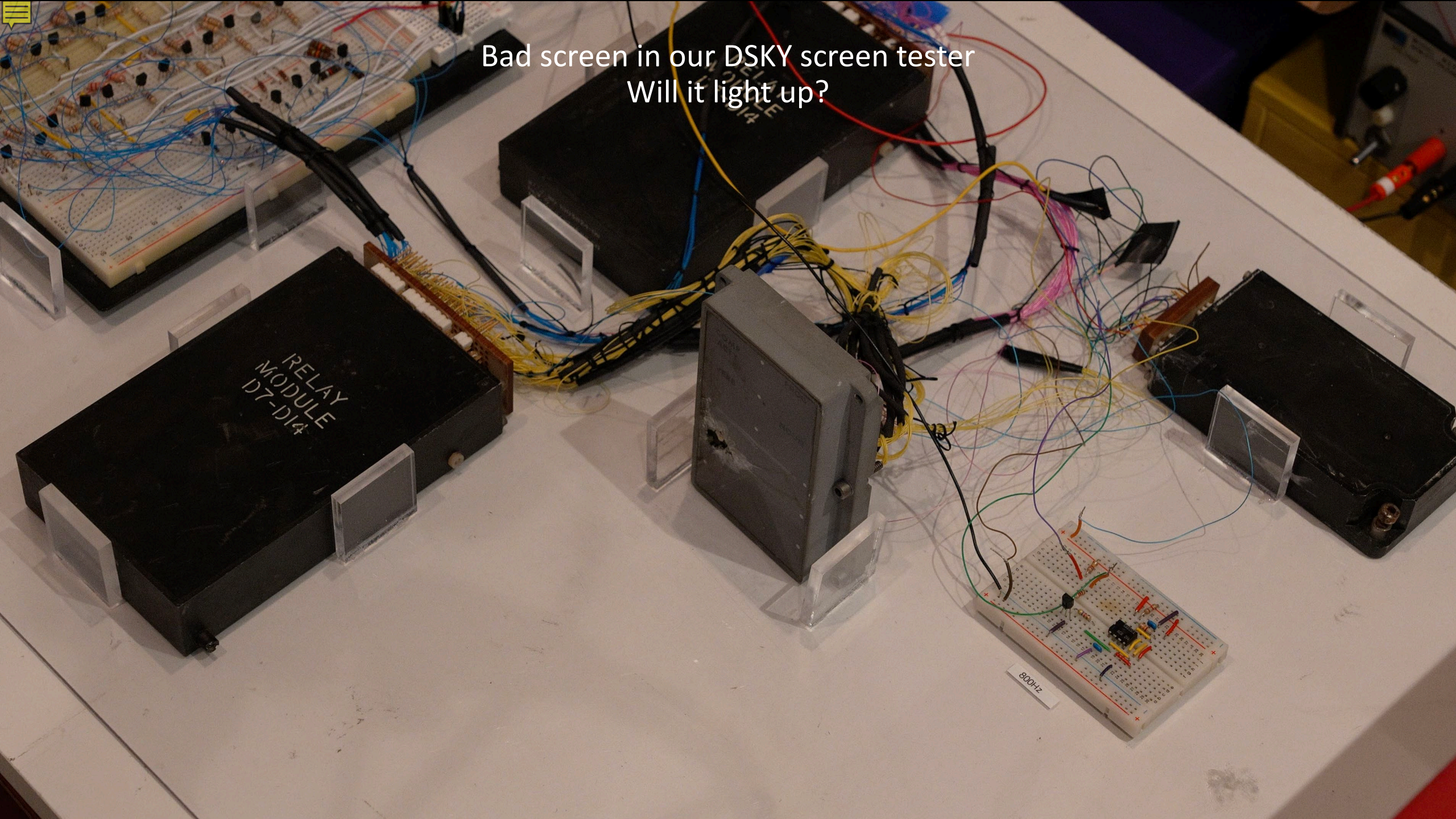
Bad Key 0 removed (bottom left)



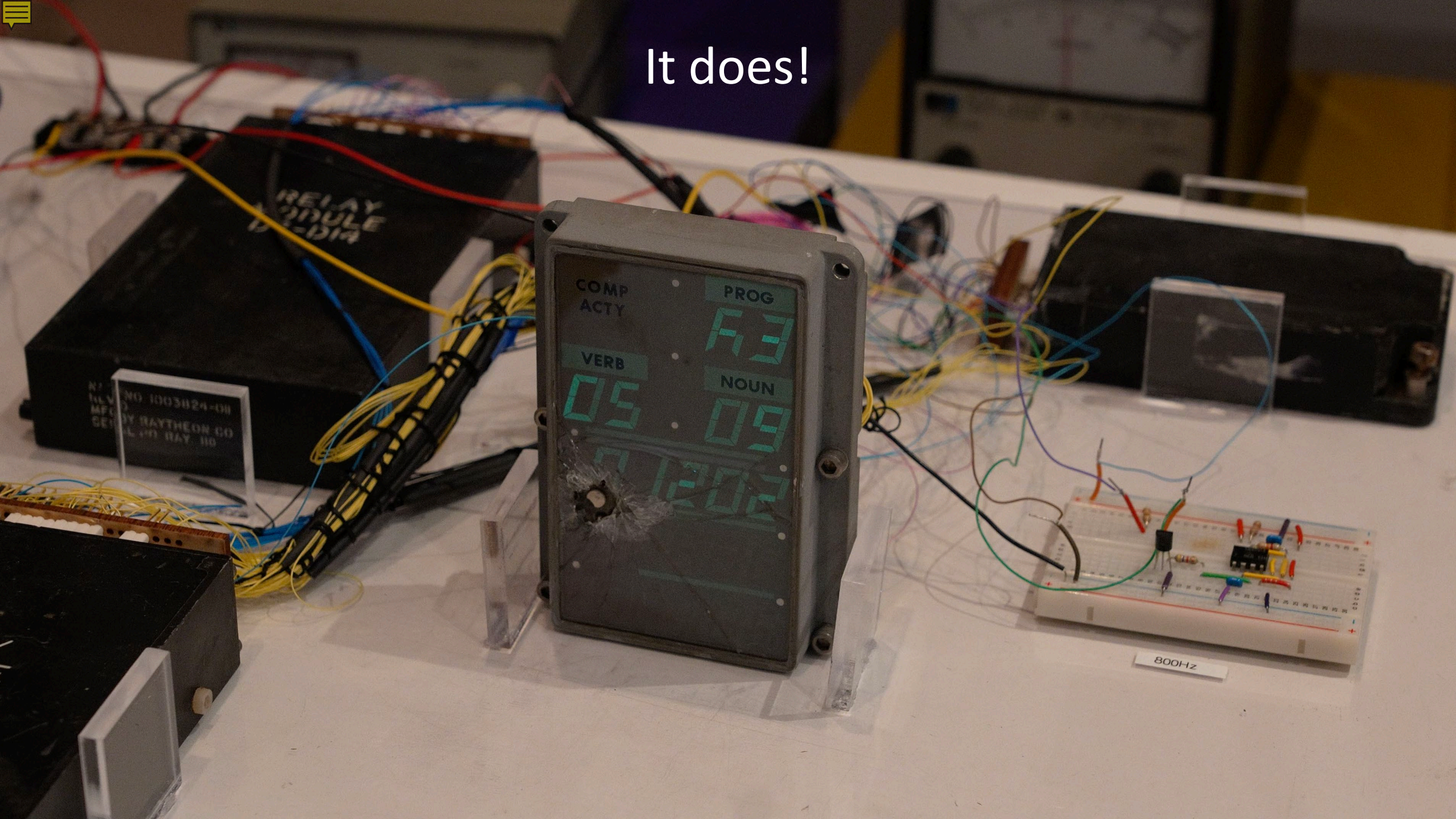
Key 0, with double spring arrangement and EL light



Bad screen in our DSKY screen tester
Will it light up?



It does!



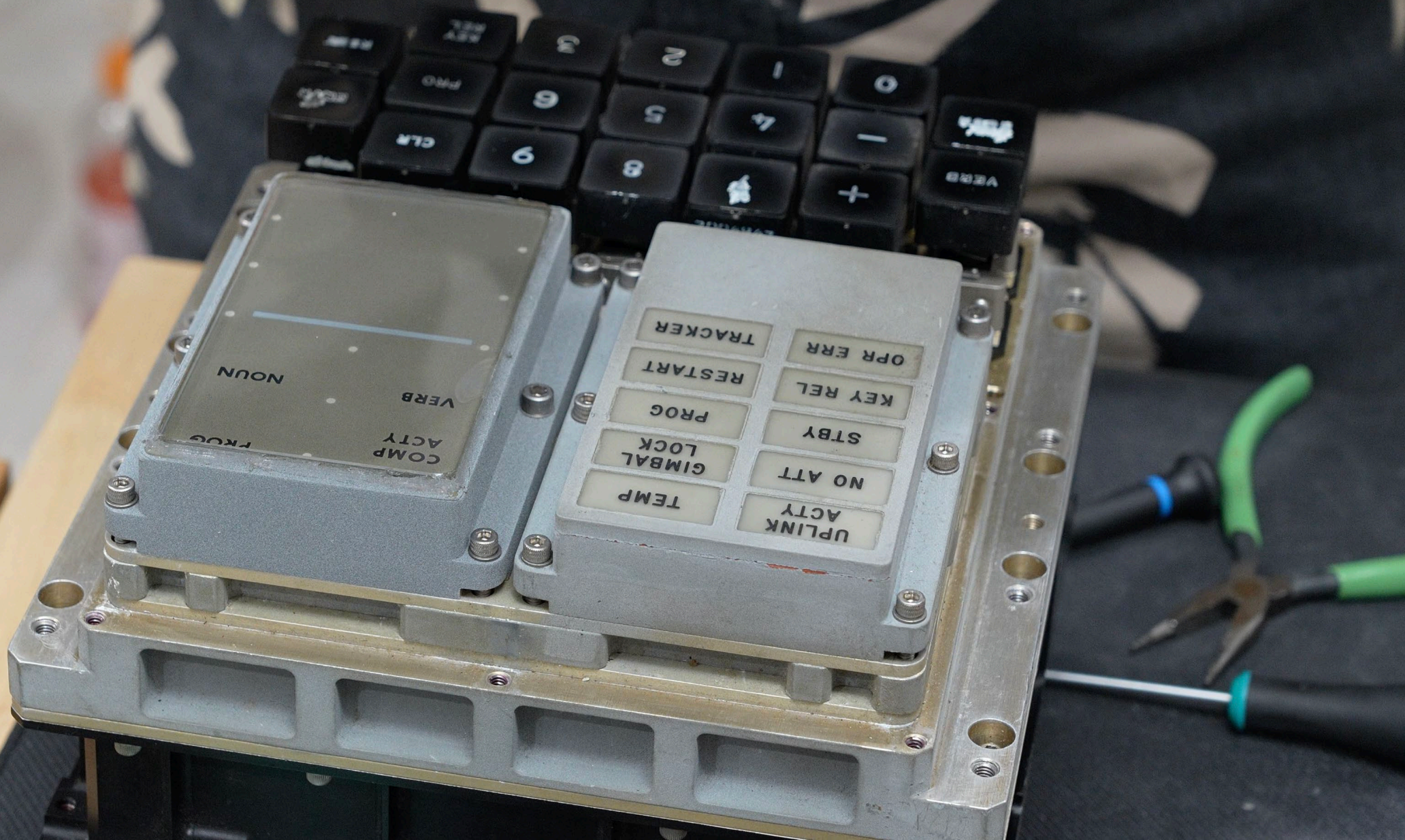
But Marcel had previously bought this



Too many display choices



We decide to use the nicest one



Mike's new gate exact AGC replica, with DSKY interface



Hi-density Deutsch connector (metric) adapter cable

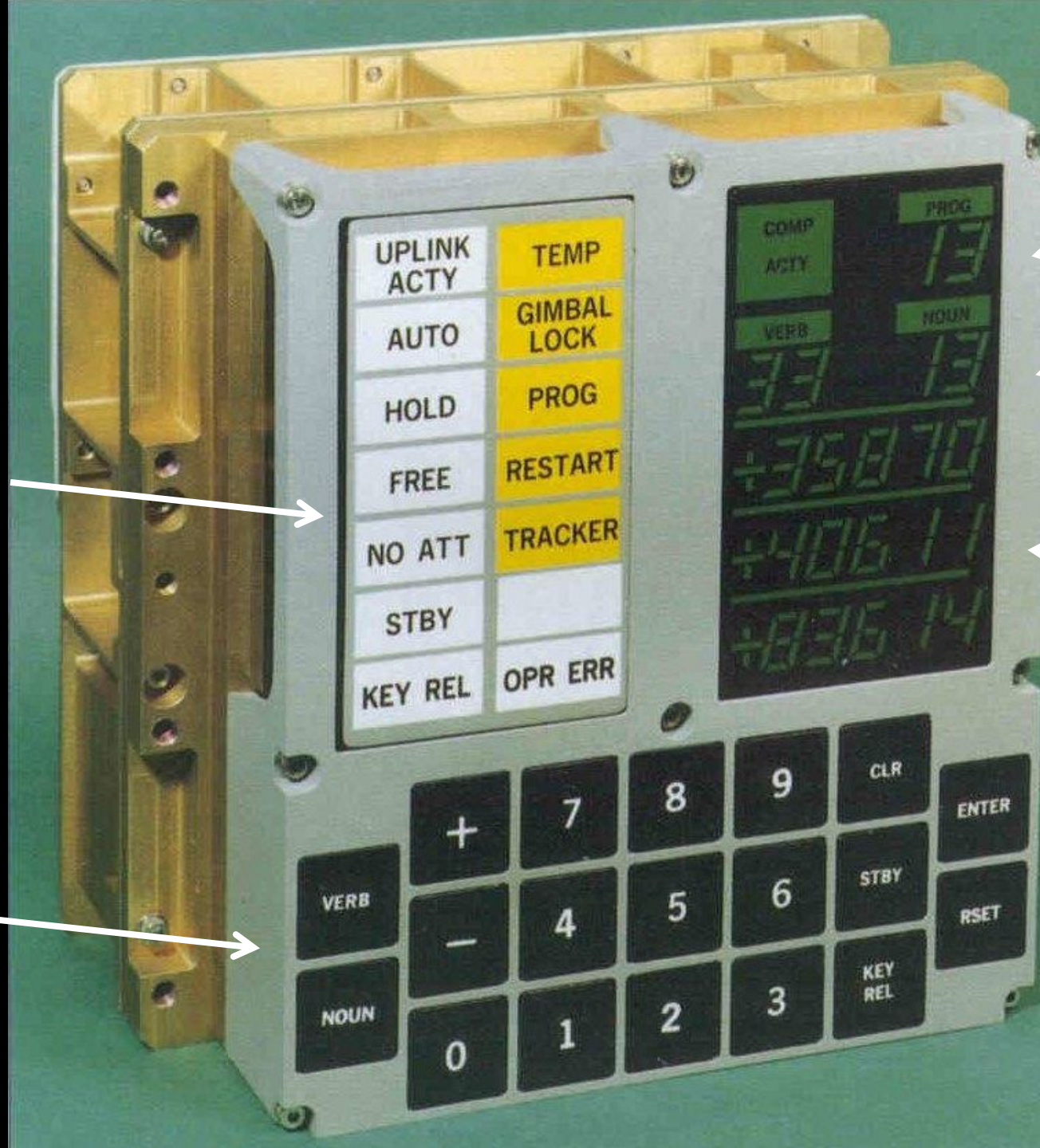


All plugged in – will it work?



Error and
status lights

Keypad,
usable with
gloves on



Program

Verb and
noun

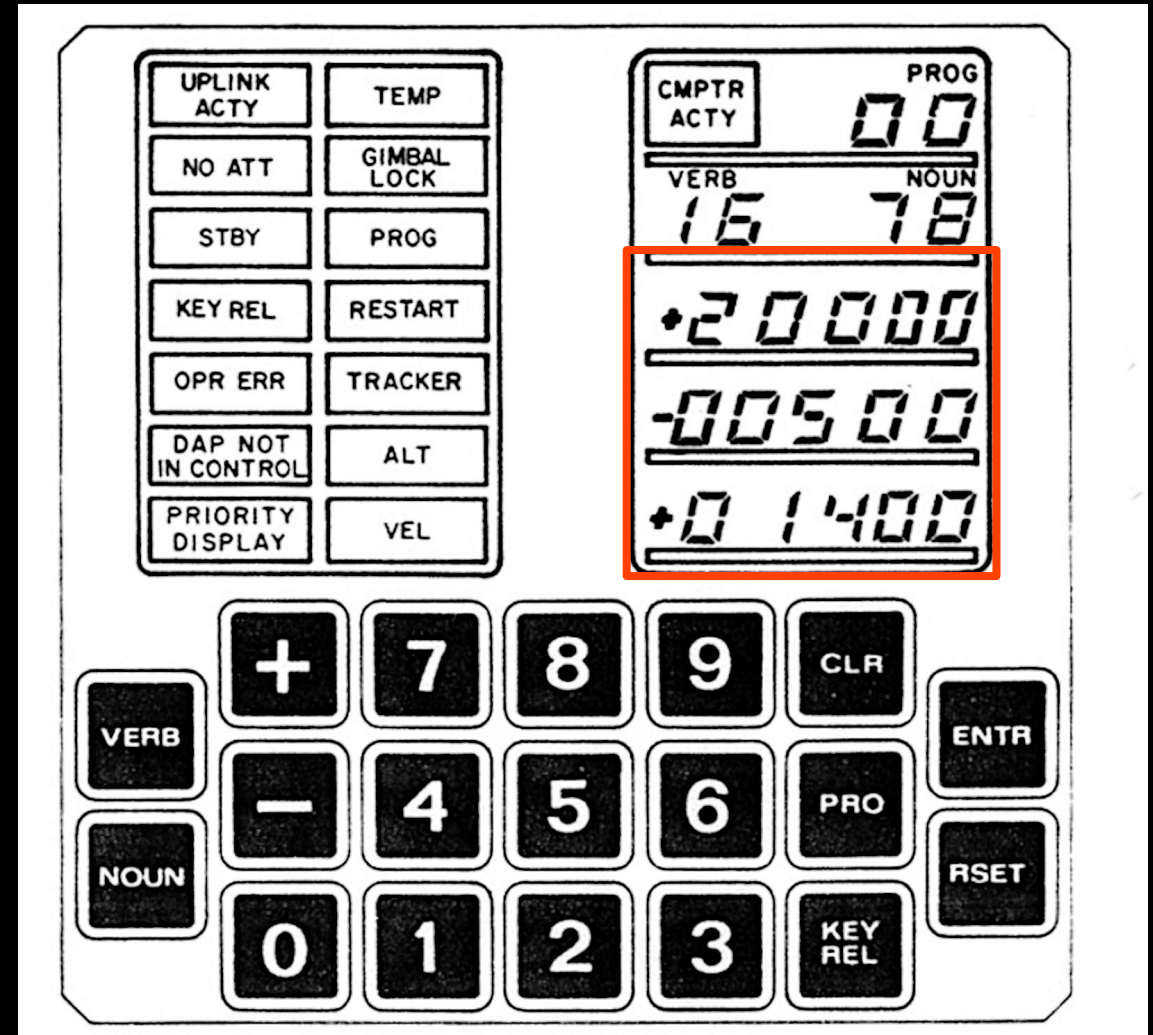
3 data
lines

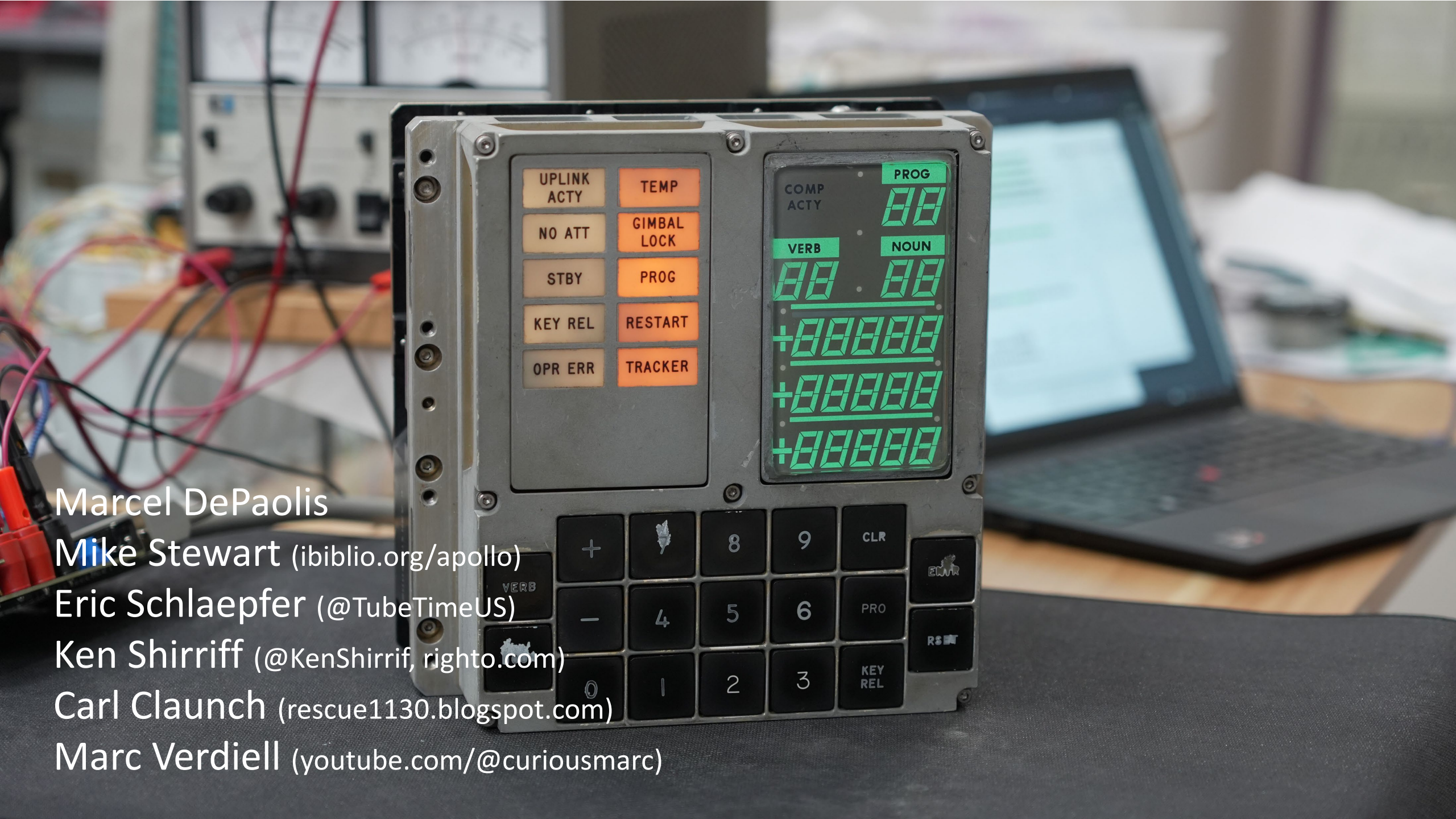
Need to memorize how to read it!

3 Lines of Data Display

- Does not say what the numbers represent
- No Units
- No Decimal Point

All of the above change meaning for different verb/noun config.





Marcel DePaolis

Mike Stewart (ibiblio.org/apollo)

Eric Schlaepfer (@TubeTimeUS)

Ken Shirriff (@KenShirriff, righto.com)

Carl Claunch (rescue1130.blogspot.com)

Marc Verdiell (youtube.com/@curiousmarc)

Extra slides

Restoring an Apollo DSKY



Marcel DePaolis, Mike Stewart, Eric Schlaepfer, Ken Shirriff, Carl Claunch, Marc Verdiell