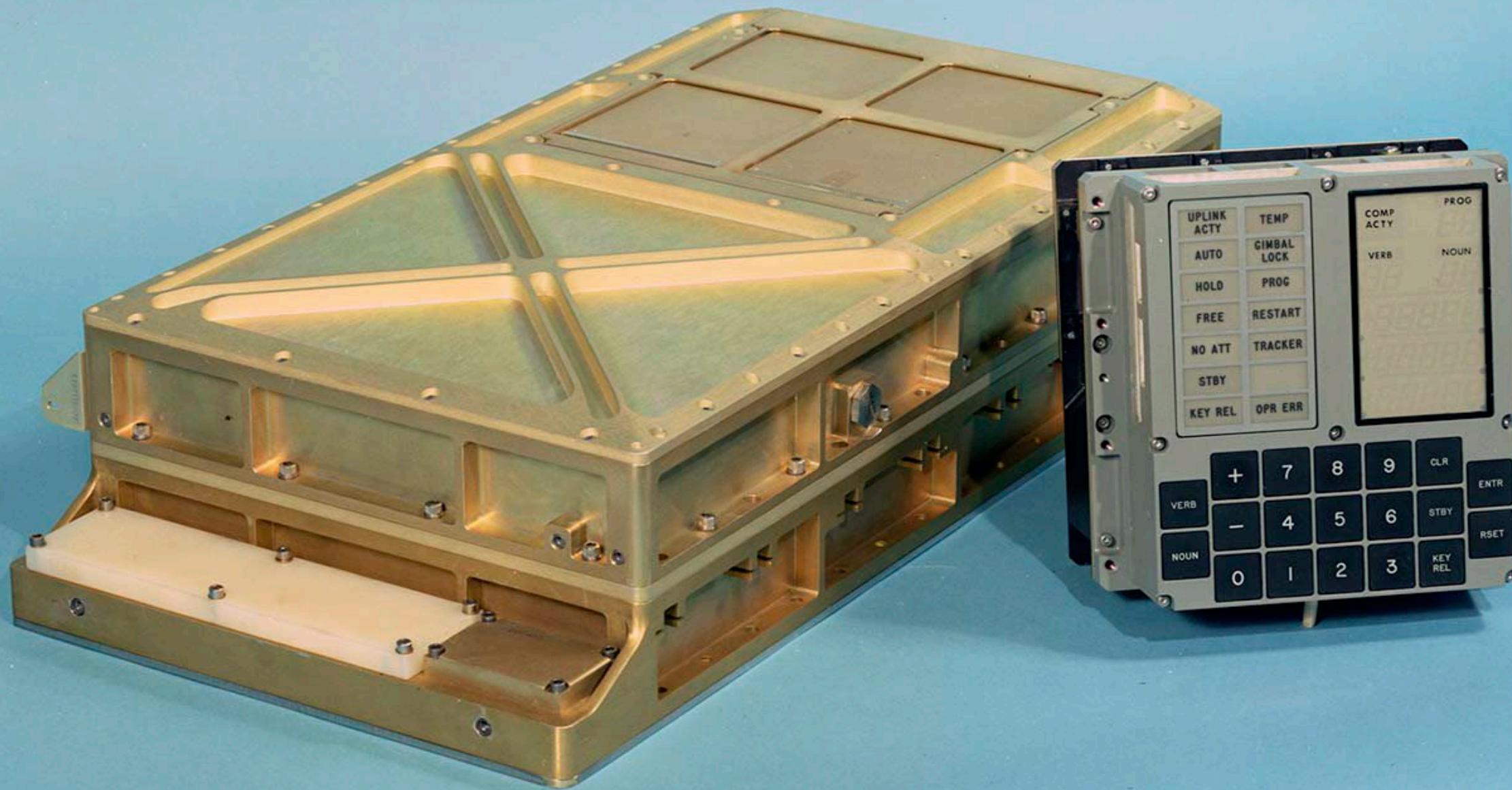


Restoring an Apollo DSKY

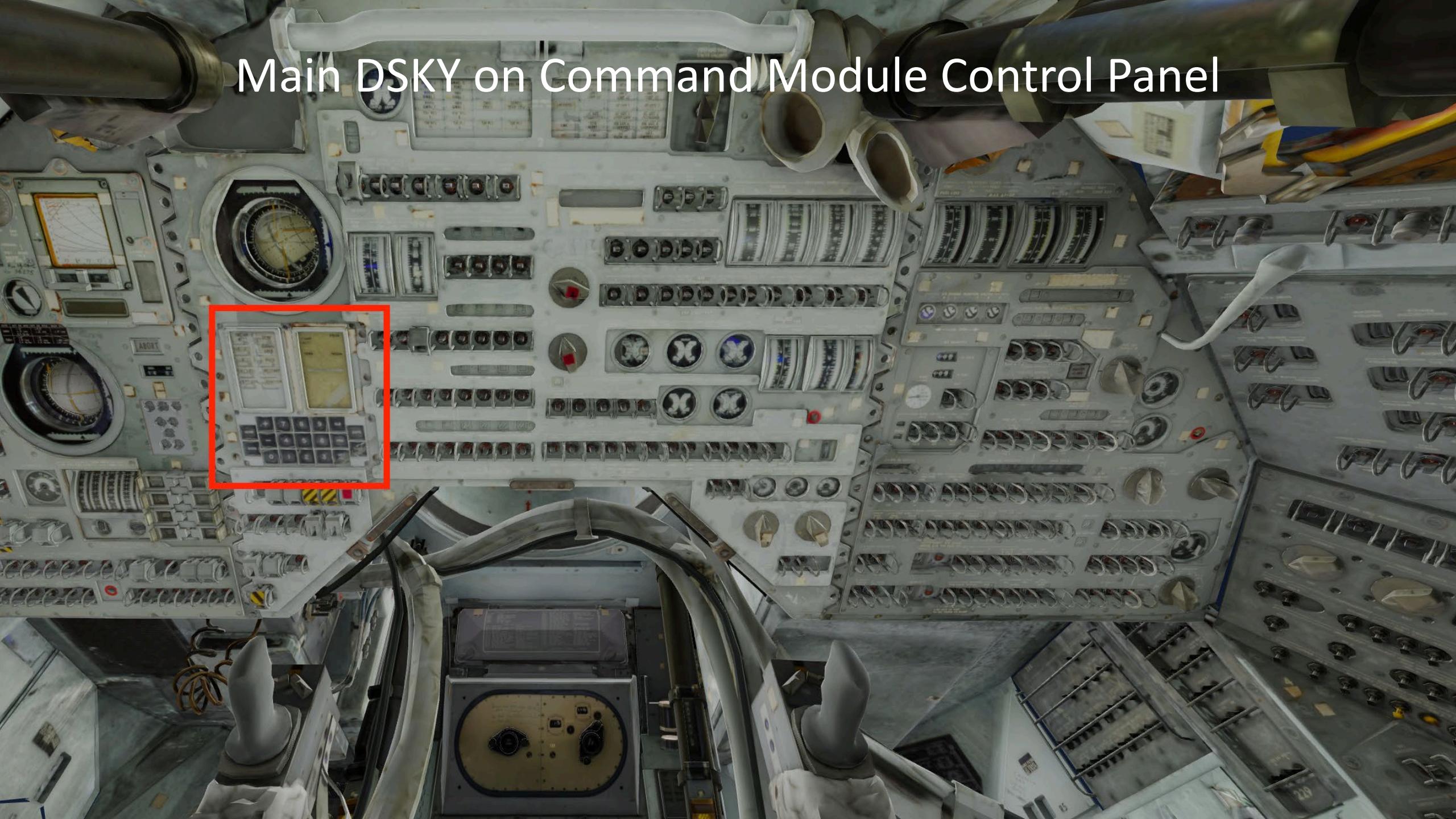


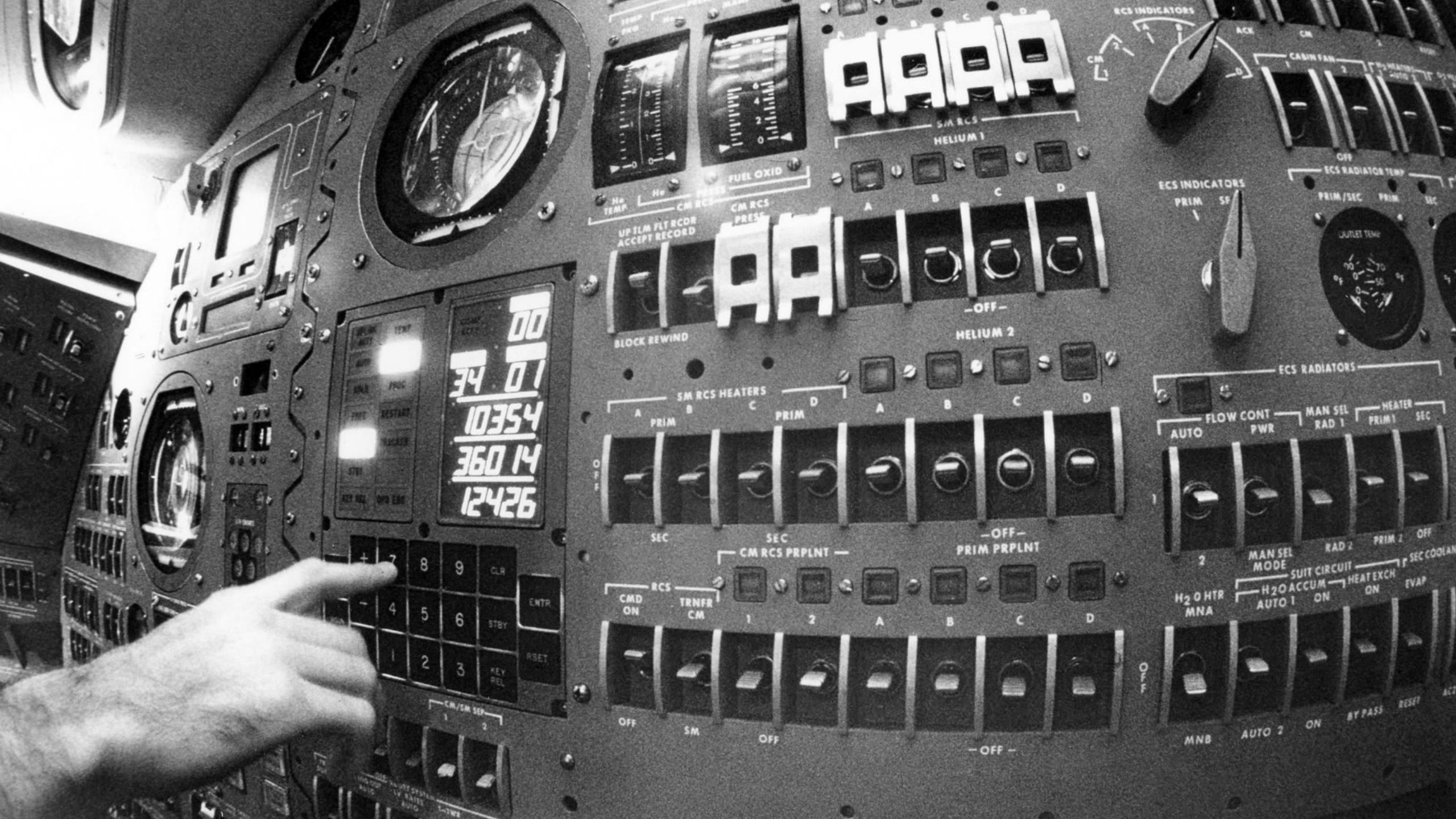
Marcel DePaolis, Mike Stewart, Eric Schlaepfer, Ken Shirriff, Carl Claunch, Marc Verdiell

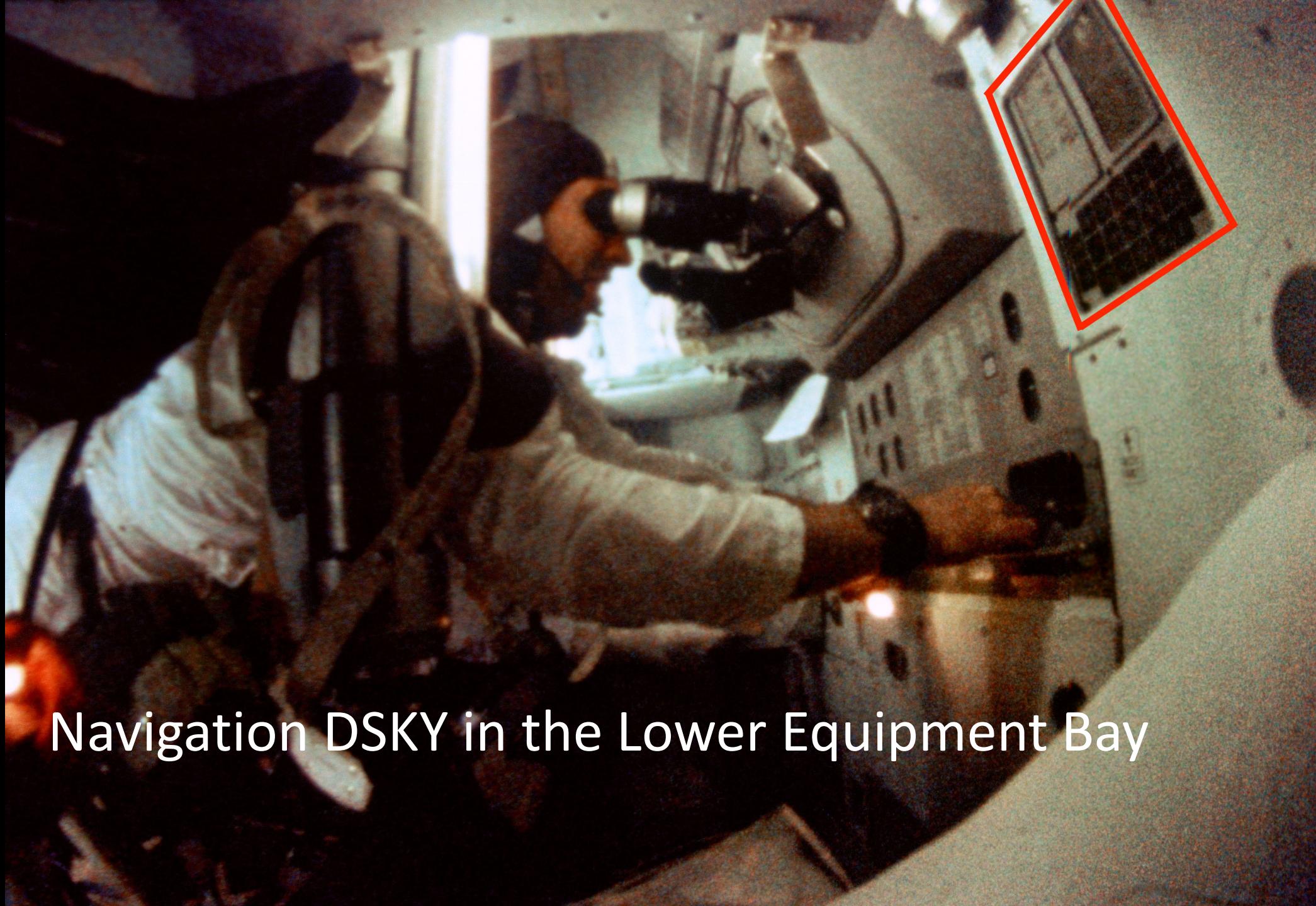
Block II Apollo Guidance Computer with DSKY (DiSplay and KeYboard)



Main DSKY on Command Module Control Panel







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

[◀ 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

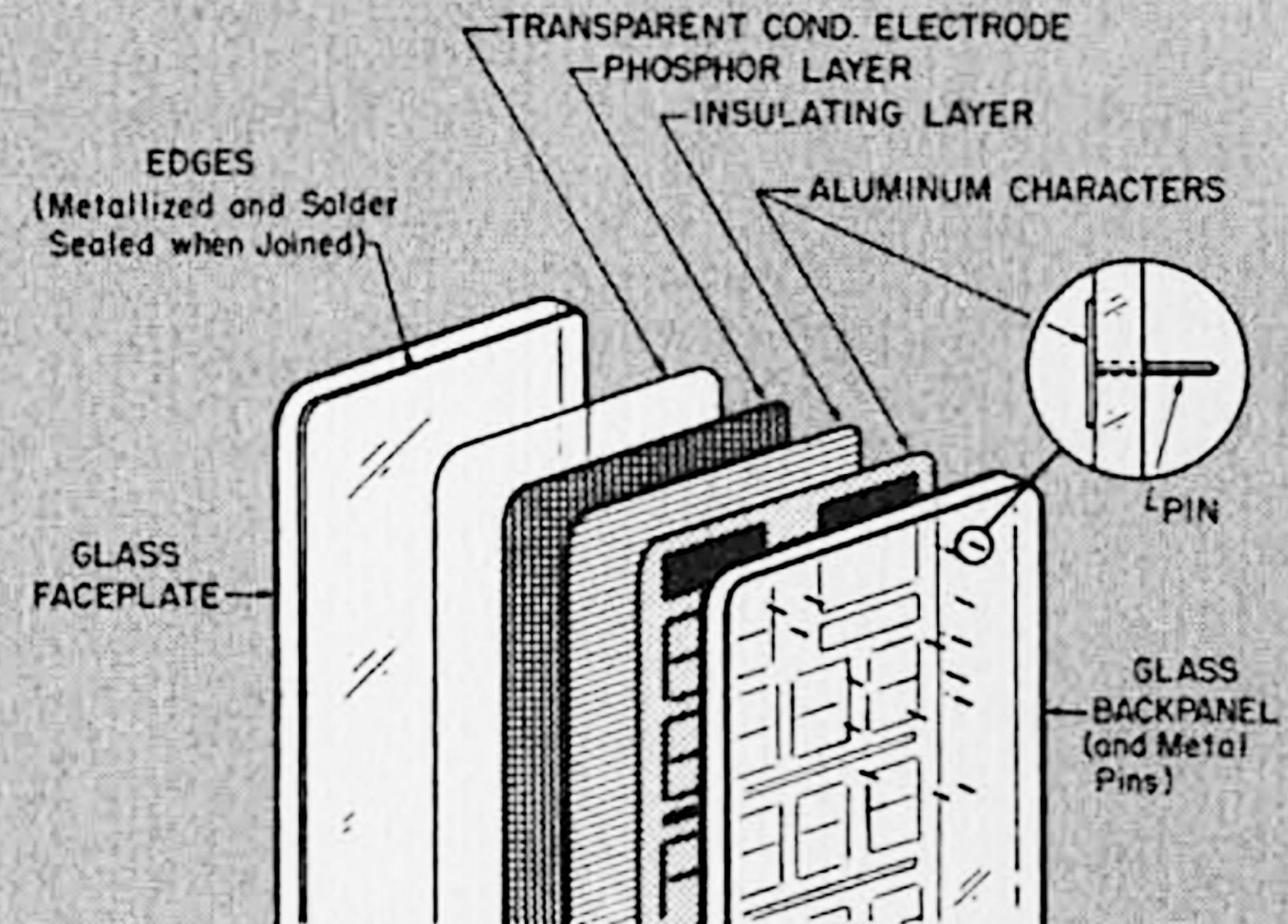


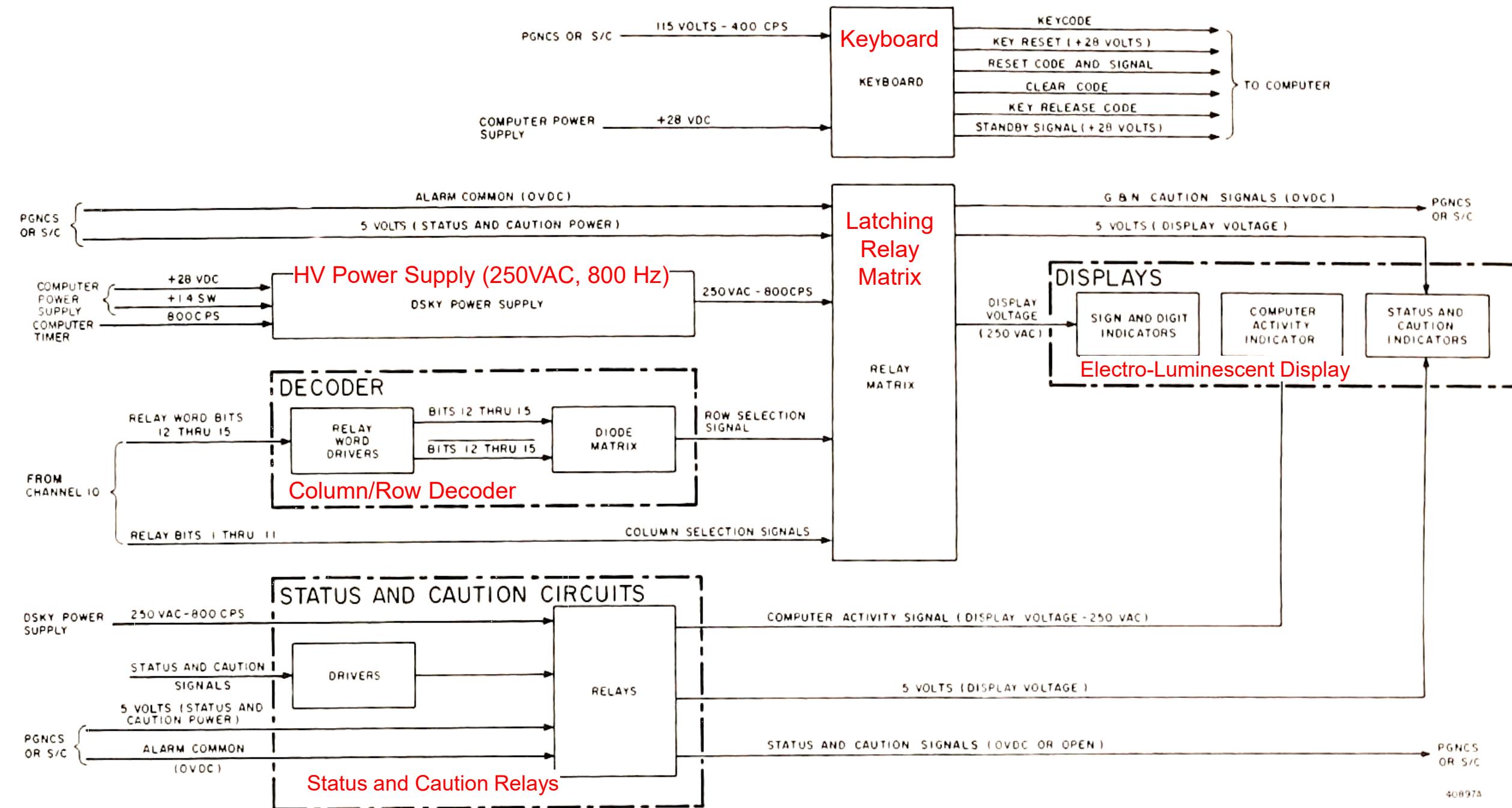
Our DKSY is slightly broken...



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

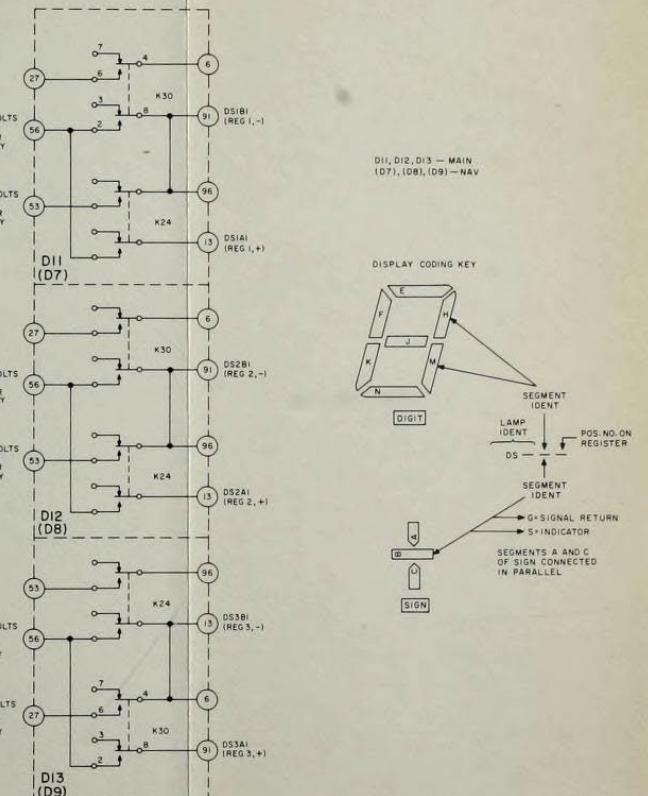
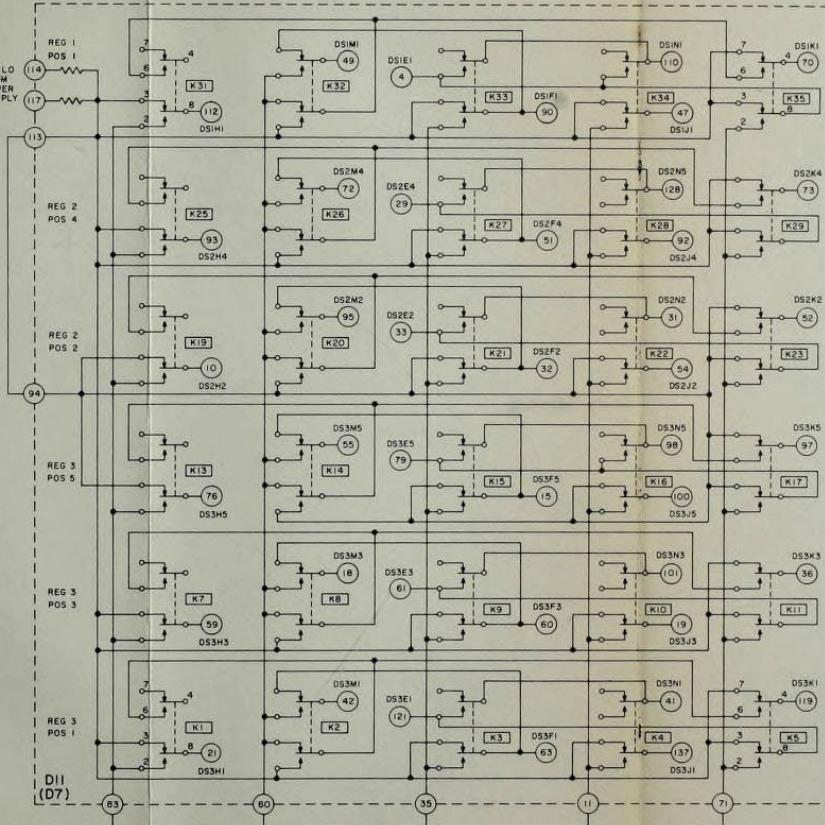
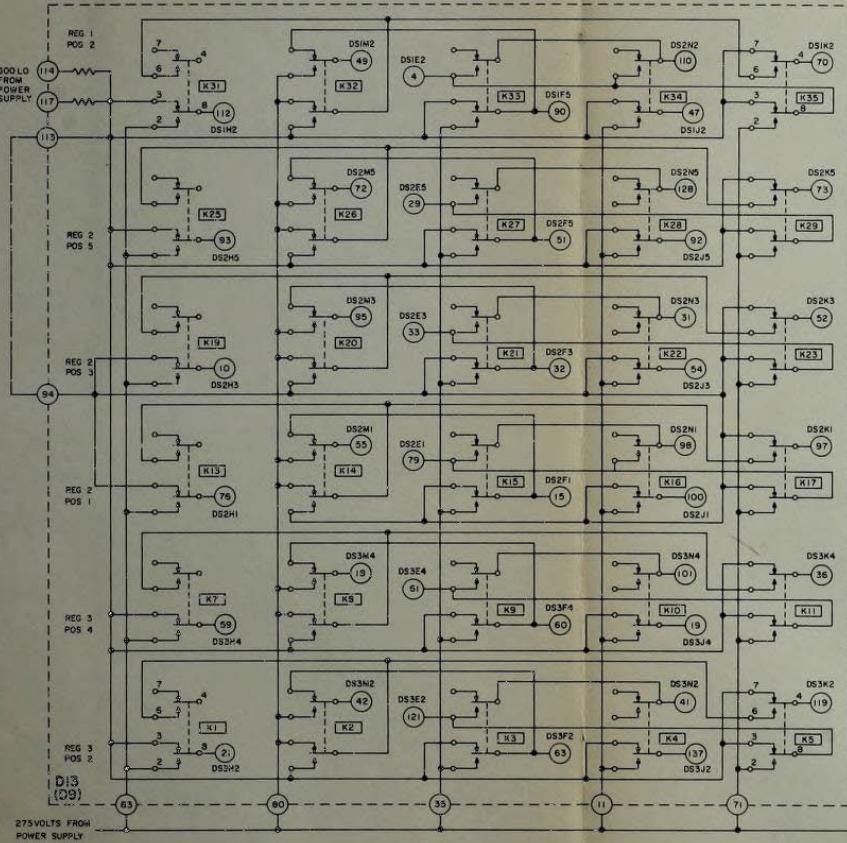


The DSKY uses very many latching relays

ND-1021041

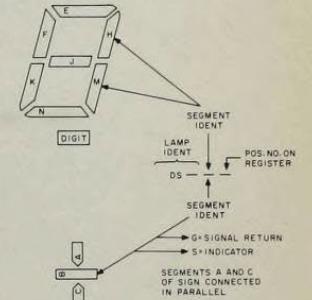
MANUAL

APOLLO GUIDANCE AND NAVIGATION SYSTEM



D11, D12, D13 — MAIN
(D7), (D8), (D9) — NAV

DISPLAY CODING KEY



40603-1

Figure 4-233. Relay Matrix Display Connections
(Sheet 1 of 2)

4-507/4-508



Separating the two halves



It is complete and in good shape

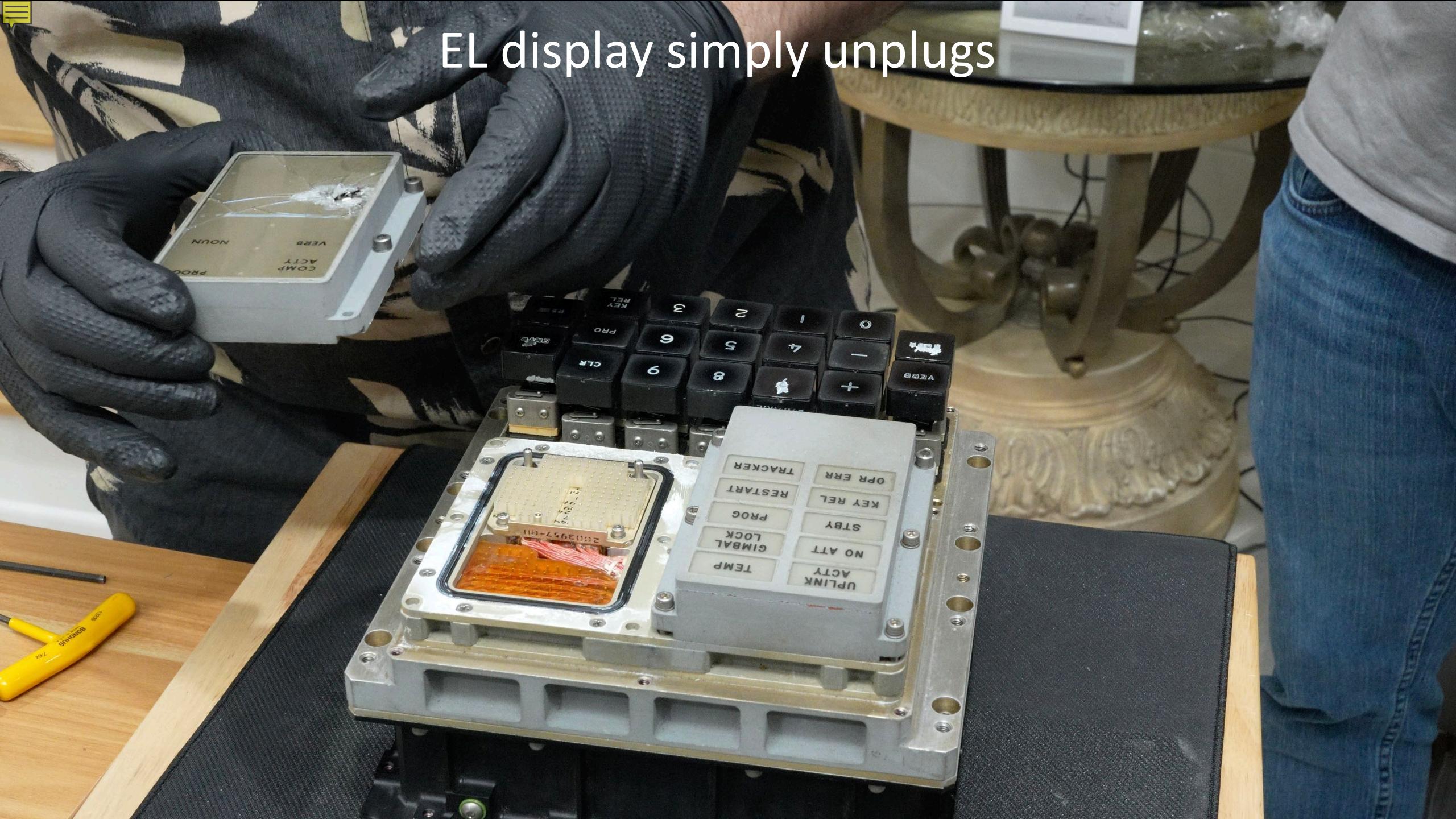


Removing the top cover

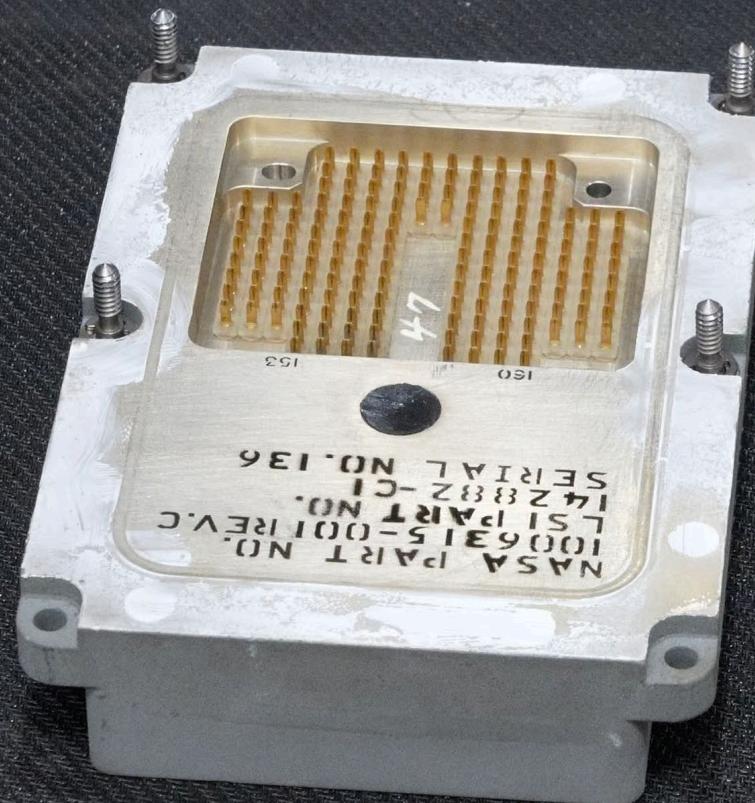




EL display simply unplugs



Back of display, Malco MiniWASP pin array



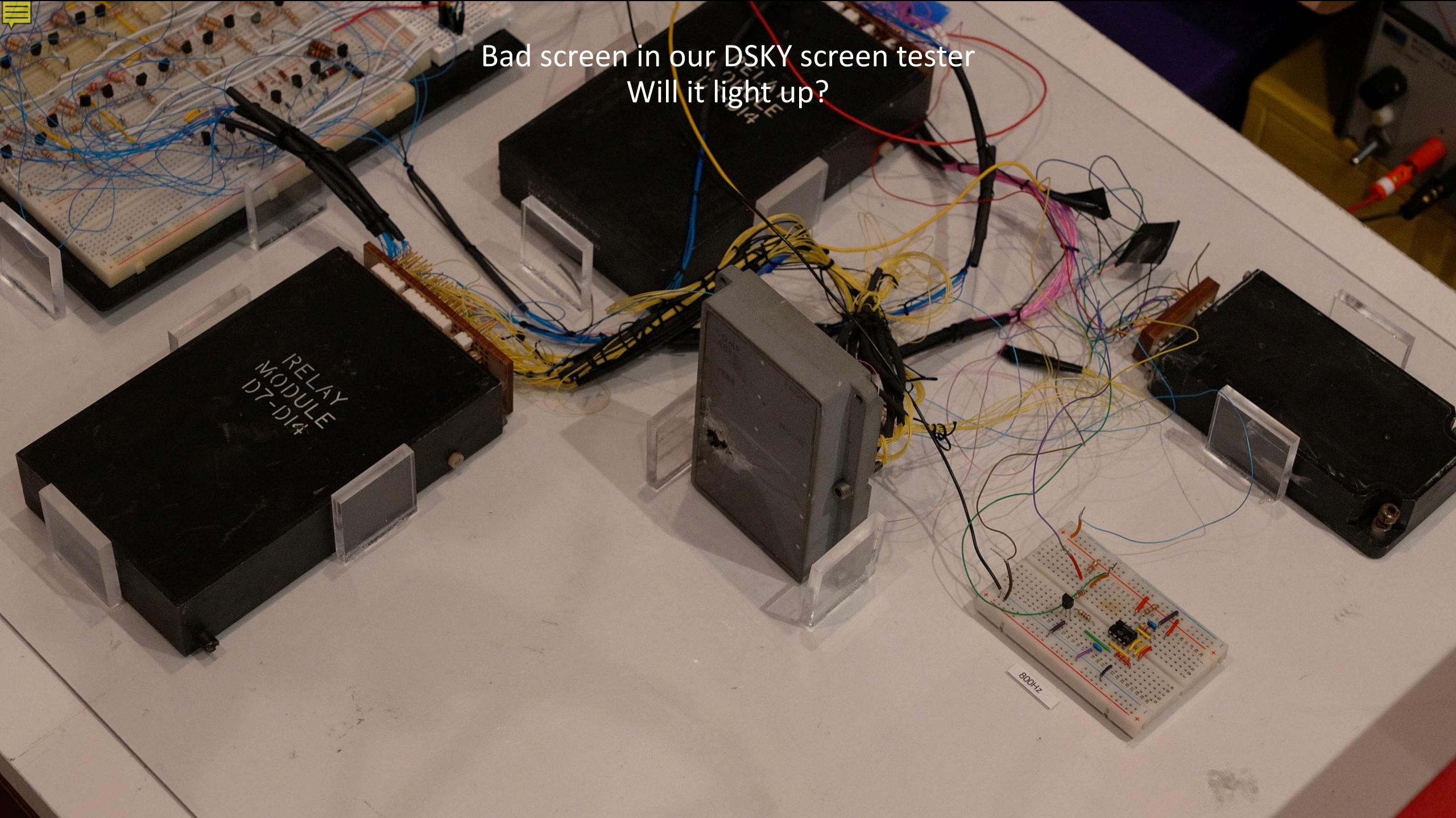
Bad Key 0 removed (bottom left)



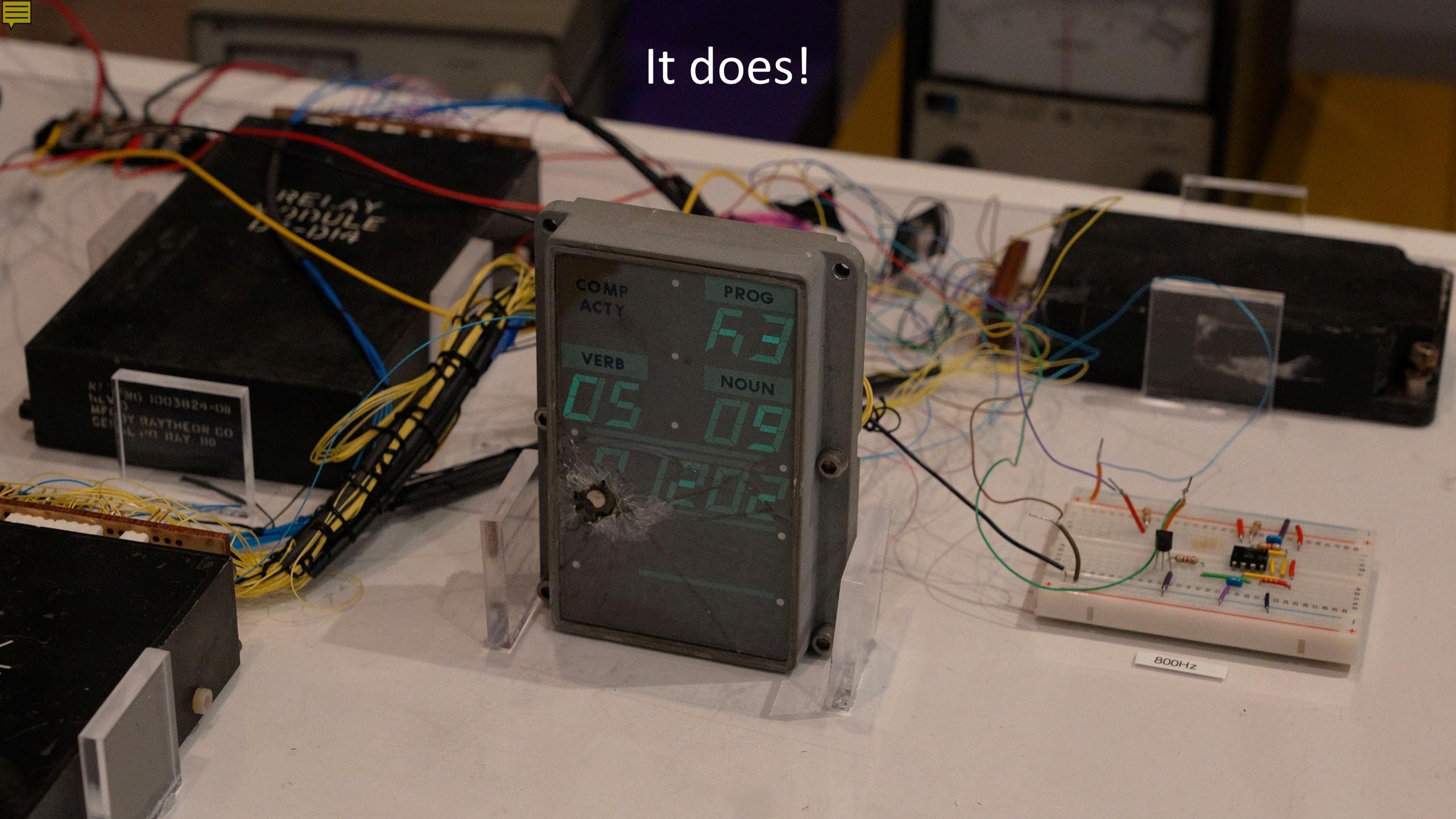
Key 0, with double spring arrangement and EL light



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

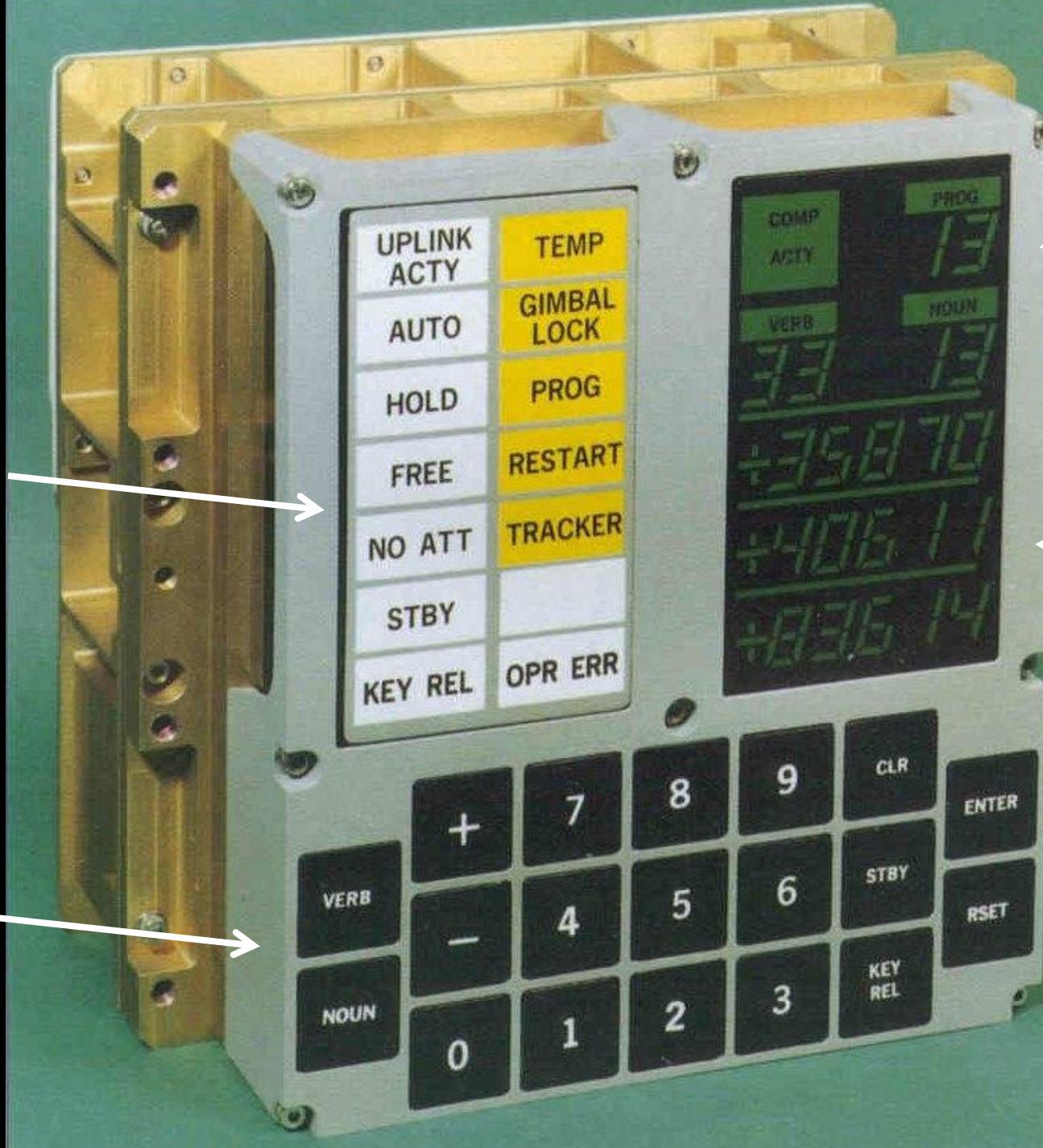


All plugged in – will it work?



Error and status lights

Keypad, usable with gloves on



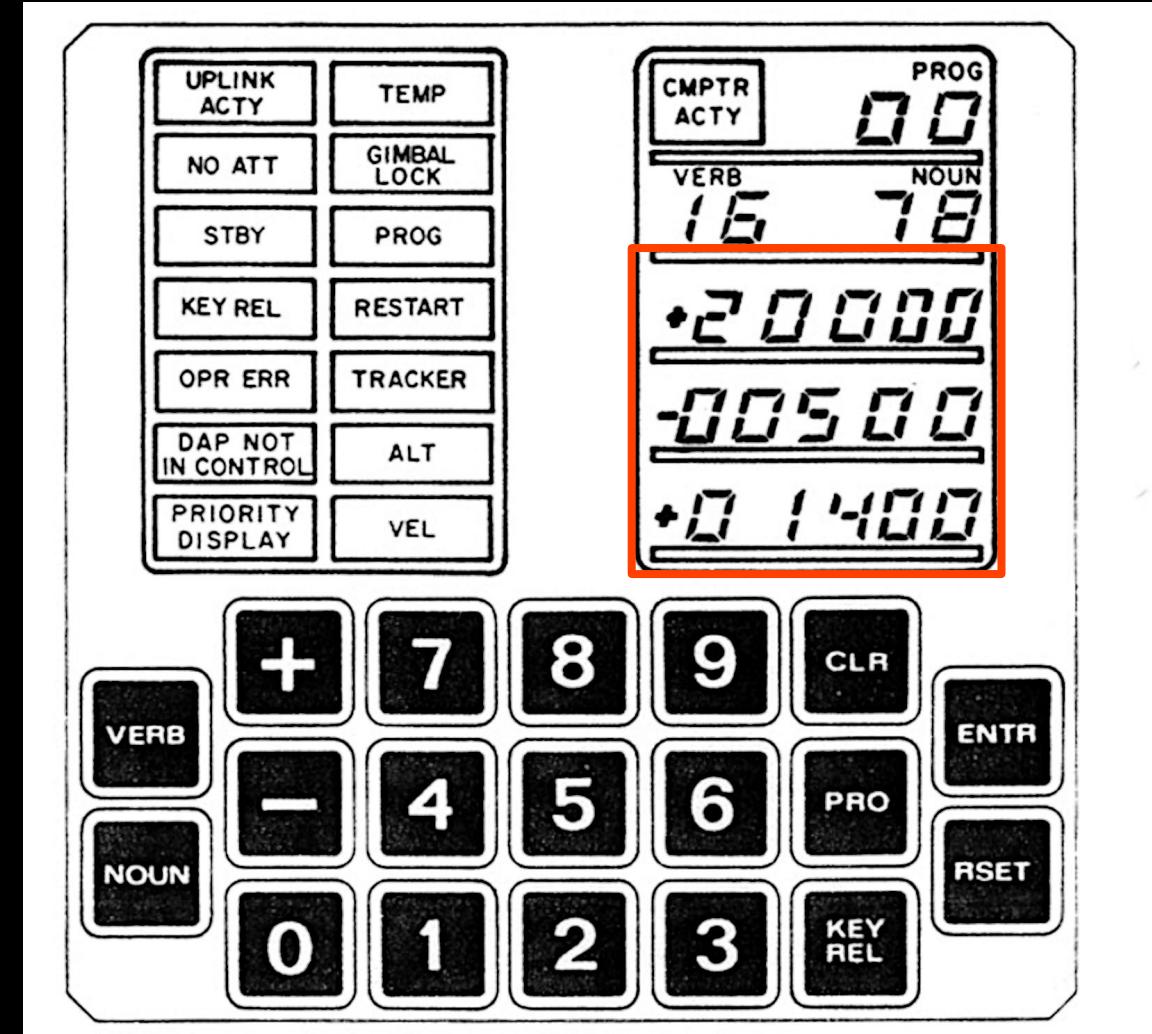
Program
Verb and noun
3 data lines

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)

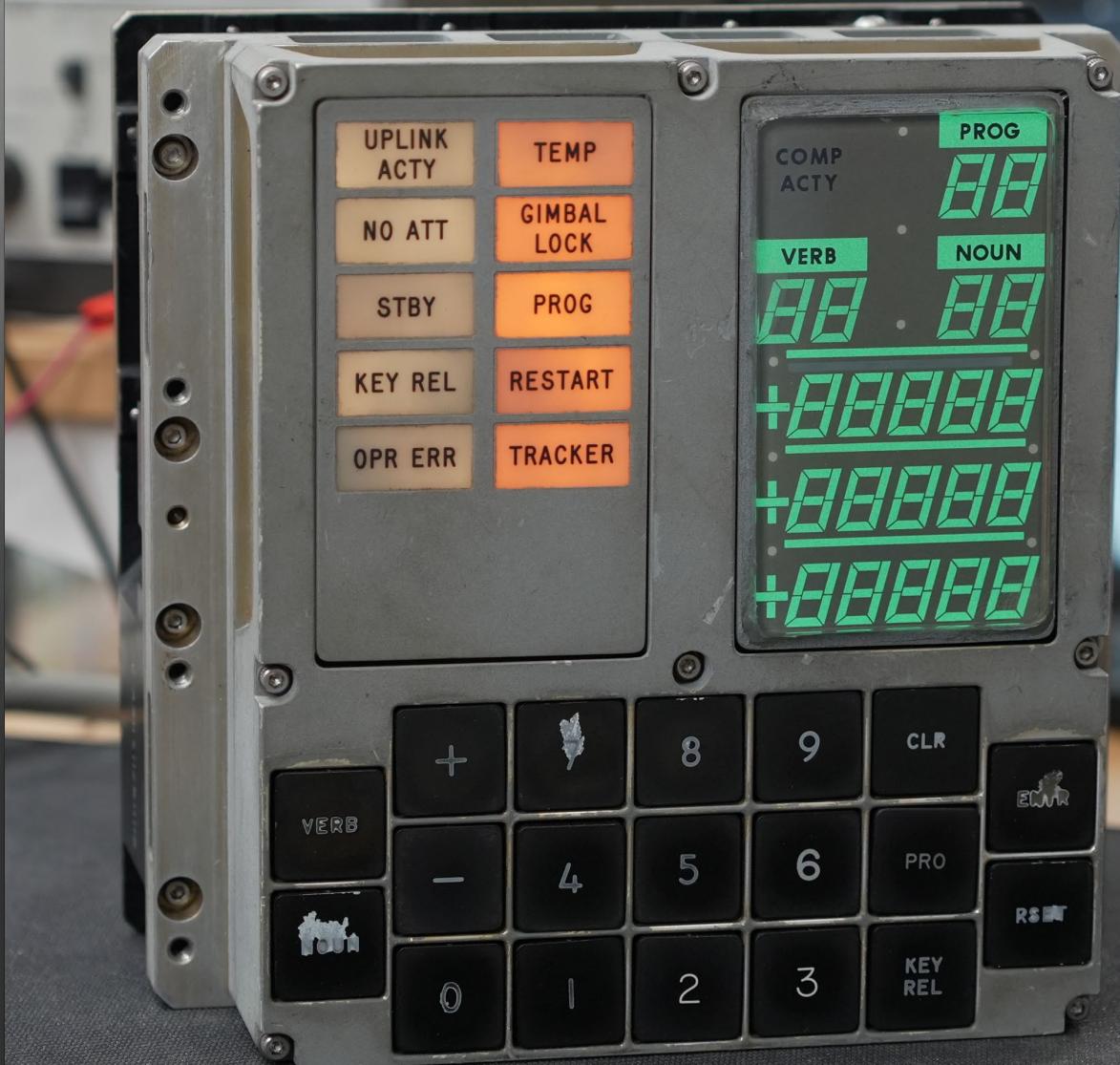
Carl Claunch (rescue1130.blogspot.com)

Marc Verdiell (youtube.com/@curiousmarc)



Extra slides

Restoring an Apollo DSKY



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