
Mauna Loa Solar Observatory Observer's Log

Thu Oct 6 17:09:49 GMT 2022

Year: 22 Doy: 279

Observer: berkey

WEATHER COMMENT: berkey: Thu Oct 06 17:12:02 GMT 2022

Temp: 41.1f, Humidity: 51%, Pressure: 28.737in, Wind: 6mph from 176degs, Skies: light c
irrus through the sky blowing in from the west, likely will continue for the rest of th
e day

____end____

GENERAL COMMENT BY berkey: Thu Oct 06 19:19:47 GMT 2022

PM Blew off Kcor 01

____end____

GENERAL COMMENT BY berkey: Thu Oct 06 19:19:56 GMT 2022

PM Blew off UCoMP 01

____end____

KCOR COMMENT BY berkey: Thu Oct 06 23:14:22 GMT 2022

Tried testing the spare MC4u in the dome.

Initial testing with just the X (lens cover) axis.

With the only 24V-logic power supply, drive power, supply, X motor J121 and X encoder J
13-x plugged in. With the SPiiPlus manual moves where attempt on the X axis and got a
encoder error error the the 3U-LT X_ON led indicator when red to indicate a failed stat
e on the X axis.

Error messages:

Axis 0(X) disabled: 5017, Encoder Not Connected

Then:

Failed to enable motor: Axis 0 (X)

An incorrect assumption was made that maybe we needed the J8 Digital & analog I/O port
plugged in. (Later review of the drawings show this was needed for feed back from the s
hutter and camera focus motors).

The MC4u was powered down the J8 was plugged into the spare controller; and on power up
a burning smell was noticed coming from the nema box. All MC4u nema power was removed
; and smoke was seen coming from the 2525-EA-0201 level translator board. This board
is related to the operations of the camera focus motors heaters (which are no longer
part of kcor). It is not clear what shorted as the cables headers cables were disconn
ected edge the nema box.

The bad 2525-ES-0201 board and all cabling related to the focus heaters was removed fro
m the Mc4u

It is not clear why plugging J8 Digital-Analog I/O port would case an issue with the 25
25-ES-0201 as J8 is only connected to the dark shutter board a 2525-ES-0200 which was n
ot damaged.

Finally the system was reverted to the primary MC4u and testing seems to show all mech'
s seem to move as expected.

____end____

GENERAL COMMENT BY berkey: Fri Oct 07 01:13:29 GMT 2022

Never cleared up eventually it got foggy/rainy.

____end____

ONSITE STAFF: berkey