
Mauna Loa Solar Observatory Observer's Log

Sun Oct 28 16:47:06 GMT 2007

Year: 07 Doy: 301

Observer: yasukawa

WEATHER COMMENT: Sun Oct 28 16:47:09 GMT 2007

Cleqar, SE wind 19 mph, temp 41 F.

____end____

| | | |
|------------------------------|------|----------------|
| Sun Oct 28 16:51:05 GMT 2007 | CHIP | Start Patrol |
| Sun Oct 28 16:54:34 GMT 2007 | PICS | Start Patrol |
| Sun Oct 28 17:13:39 GMT 2007 | MKIV | Start Patrol |
| Sun Oct 28 18:00:55 GMT 2007 | CHIP | LSD |
| Sun Oct 28 18:01:18 GMT 2007 | PICS | Flat |
| Sun Oct 28 18:02:47 GMT 2007 | CHIP | End LSD |
| Sun Oct 28 18:02:56 GMT 2007 | CHIP | BiasLSD |
| Sun Oct 28 18:03:39 GMT 2007 | PICS | End Flat |
| Sun Oct 28 18:03:49 GMT 2007 | CHIP | End BiasLSD |
| Sun Oct 28 18:03:51 GMT 2007 | PICS | ReStart Patrol |
| Sun Oct 28 18:04:04 GMT 2007 | CHIP | Bias |
| Sun Oct 28 18:05:06 GMT 2007 | CHIP | End Bias |
| Sun Oct 28 18:05:14 GMT 2007 | CHIP | ReStart Patrol |
| Sun Oct 28 18:06:55 GMT 2007 | MKIV | End Patrol |
| Sun Oct 28 18:07:02 GMT 2007 | MKIV | Start Cal |
| Sun Oct 28 18:25:48 GMT 2007 | MKIV | End Cal |
| Sun Oct 28 18:25:59 GMT 2007 | MKIV | Start Patrol |

PSPT PROBLEM : Sun Oct 28 18:50:53 GMT 2007

Checked out dome rotator. Home switch mount was again bent out of shape. I took it apart and straightened the mount post. Took microswitch apart and checked it out. NC and NO were actuating OK. Reassembled the switch and mount and adjusted the actuator. Dome is still running in the wrong direction to home itself. Checking further.

____end____

WEATHER COMMENT: Sun Oct 28 19:43:04 GMT 2007

In scattered cirrus

____end____

PSPT PROBLEM : Sun Oct 28 19:56:36 GMT 2007

There are two mechanical relays in the dome rotator box. Top one is for RUN on/off. Bottom one is for DIRECTION cw/ccw. RUN turns on each time dome is rotated. DIR turns on when CCW (dome goto decreasing number) is requested. DIR does not actuate when CW (dome goto increasing number) is requested. Mechanical relays function normally when manual switch is actuated, both CW and CCW. Computer control bypasses the manual switch and goes thru a pair (L & R--RUN and DIR) of SSRs. Checked the control voltages to each SSR and found there wa no change in voltage to the DIR SSR when CCW was requested--there should be for CCW and there shouldn't be for CW. Disassembled Jones connector to the box that provides the DIR control from the computer and found the red wire to

pin 2 broken. (Pins 1 & 2 are DIR, pins 3 & 4 are RUN). Resoldered the wire, reassembled connector and tested dome rotator. Rotation in both directions now work correctly.

Dome rotator still has a problem of jumping the track near the HOME azimuth. This causes the dome to rotate to an incorrect azimuth after homing itself. Encoder counts the requested steps but the dome doesn't actually rotate that number of steps due to the skipping. Attempting to adjust that problem.

____end____

PSPT PROBLEM : Sun Oct 28 21:06:38 GMT 2007
Marked off track sectors where dome rotator motor/drive was jumping.
Lifted the track a little with crowbar in those sectors.
Tested--drive ran smoothly over the sectors.
Reassembled everything that was taken apart earlier.

____end____

PSPT COMMENT: Sun Oct 28 21:09:00 GMT 2007
Starting up --- everybody is behaving!

____end____

PSPT COMMENT: Sun Oct 28 21:10:52 GMT 2007
Observing. (!!!)

____end____

NICE MK4 IMAGE: 1810
NICE CHIP IMAGE: 1811
NICE PICSLIMB IMAGE: 1811
NICE PICSDISC IMAGE: 1810

A NEW TAPE HAS BEEN PUT INTO KAIEE DLT DRIVE, Sun Oct 28 21:17:24 GMT 2007

WEATHER COMMENT: Sun Oct 28 21:17:50 GMT 2007
Still pretty windy outside.

____end____

PSPT PROBLEM : Sun Oct 28 21:18:25 GMT 2007
Spar getting buffeted.

____end____

PSPT COMMENT: Sun Oct 28 22:47:53 GMT 2007
Hey! I just noticed that the memidl timeout counter is incrementing counts on the same line, not on separate lines, again (at least for now).

____end____

Sun Oct 28 22:54:16 GMT 2007 CHIP End Patrol
Sun Oct 28 22:54:22 GMT 2007 PICS End Patrol
Sun Oct 28 22:56:31 GMT 2007 MKIV End Patrol
Sun Oct 28 22:58:58 GMT 2007
MkIV

| | | | | |
|--------------|--------------|--------------|--------------|--------------|
| 17_13.rawmk4 | 18_34.rawmk4 | 19_45.rawmk4 | 20_55.rawmk4 | 22_06.rawmk4 |
| 17_16.rawmk4 | 18_37.rawmk4 | 19_48.rawmk4 | 20_58.rawmk4 | 22_09.rawmk4 |
| 17_19.rawmk4 | 18_40.rawmk4 | 19_51.rawmk4 | 21_01.rawmk4 | 22_12.rawmk4 |
| 17_22.rawmk4 | 18_43.rawmk4 | 19_54.rawmk4 | 21_04.rawmk4 | 22_15.rawmk4 |

| | | | | |
|--------------|--------------|--------------|--------------|---------------|
| 17_25.rawmk4 | 18_46.rawmk4 | 19_56.rawmk4 | 21_07.rawmk4 | 22_17.rawmk4 |
| 17_28.rawmk4 | 18_49.rawmk4 | 19_59.rawmk4 | 21_10.rawmk4 | 22_20.rawmk4 |
| 17_31.rawmk4 | 18_52.rawmk4 | 20_02.rawmk4 | 21_13.rawmk4 | 22_23.rawmk4 |
| 17_34.rawmk4 | 18_55.rawmk4 | 20_05.rawmk4 | 21_16.rawmk4 | 22_26.rawmk4 |
| 17_37.rawmk4 | 18_58.rawmk4 | 20_08.rawmk4 | 21_19.rawmk4 | 22_29.rawmk4 |
| 17_40.rawmk4 | 19_01.rawmk4 | 20_11.rawmk4 | 21_22.rawmk4 | 22_32.rawmk4 |
| 17_43.rawmk4 | 19_04.rawmk4 | 20_14.rawmk4 | 21_25.rawmk4 | 22_35.rawmk4 |
| 17_46.rawmk4 | 19_07.rawmk4 | 20_17.rawmk4 | 21_27.rawmk4 | 22_38.rawmk4 |
| 17_49.rawmk4 | 19_09.rawmk4 | 20_20.rawmk4 | 21_30.rawmk4 | 22_41.rawmk4 |
| 17_51.rawmk4 | 19_12.rawmk4 | 20_23.rawmk4 | 21_33.rawmk4 | 22_44.rawmk4 |
| 17_54.rawmk4 | 19_15.rawmk4 | 20_26.rawmk4 | 21_36.rawmk4 | 22_47.rawmk4 |
| 17_57.rawmk4 | 19_18.rawmk4 | 20_29.rawmk4 | 21_39.rawmk4 | 22_50.rawmk4 |
| 18_00.rawmk4 | 19_21.rawmk4 | 20_32.rawmk4 | 21_42.rawmk4 | 22_53.rawmk4 |
| 18_03.rawmk4 | 19_24.rawmk4 | 20_35.rawmk4 | 21_45.rawmk4 | c18_07.rawmk4 |
| 18_10.rawmk4 | 19_27.rawmk4 | 20_38.rawmk4 | 21_48.rawmk4 | c18_13.rawmk4 |
| 18_16.rawmk4 | 19_30.rawmk4 | 20_41.rawmk4 | 21_51.rawmk4 | c18_19.rawmk4 |
| 18_22.rawmk4 | 19_33.rawmk4 | 20_44.rawmk4 | 21_54.rawmk4 | |
| 18_25.rawmk4 | 19_36.rawmk4 | 20_46.rawmk4 | 21_57.rawmk4 | |
| 18_28.rawmk4 | 19_39.rawmk4 | 20_49.rawmk4 | 22_00.rawmk4 | |
| 18_31.rawmk4 | 19_42.rawmk4 | 20_52.rawmk4 | 22_03.rawmk4 | |