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Mauna Loa Solar Observatory Observer's Log  
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Thu Apr 29 16:30:46 GMT 2004

Year: 04 Doy: 120

Observer: stueben

WEATHER COMMENT: Thu Apr 29 16:45:12 GMT 2004

Clear, south wind 5-10 mph, temp 44F.

Thu Apr 29 16:46:17 GMT 2004 CHIP Start Patrol

Thu Apr 29 16:46:35 GMT 2004 PICS Start Patrol

Thu Apr 29 16:52:38 GMT 2004 MKIV Start Patrol

MKIV COMMENT: Thu Apr 29 16:53:05 GMT 2004

Centered 01 guider.

A NEW TAPE HAS BEEN PUT INTO KAIEE DLT DRIVE, Thu Apr 29 17:09:53 GMT 2004

PSPT COMMENT: Thu Apr 29 17:09:57 GMT 2004

Observing.

Thu Apr 29 18:01:39 GMT 2004 CHIP LSD

Thu Apr 29 18:03:22 GMT 2004 CHIP End LSD

Thu Apr 29 18:03:38 GMT 2004 CHIP BiasLSD

Thu Apr 29 18:04:13 GMT 2004 PICS Flat

Thu Apr 29 18:04:31 GMT 2004 CHIP End BiasLSD

Thu Apr 29 18:04:42 GMT 2004 CHIP Bias

Thu Apr 29 18:05:34 GMT 2004 CHIP End Bias

Thu Apr 29 18:06:38 GMT 2004 PICS End Flat

Thu Apr 29 19:08:15 GMT 2004 MKIV End Patrol

Thu Apr 29 19:08:21 GMT 2004 MKIV Start Cal

Thu Apr 29 19:27:52 GMT 2004 MKIV Start Patrol

**\*\*ECHO PROBLEM\*\***: Thu Apr 29 19:52:48 GMT 2004

Echo not behaving this morning. It was pointed west and not moving to point to the sun when I arrived. After some investigation I found that the HA axis would move to a step position but not an angular position. Alice told me that the step position control ignores the limit switches and stall limits. This suggests that either limit switches or stall torque are the problem. Will investigate further.

MKIV COMMENT: Thu Apr 29 20:03:26 GMT 2004

Centered 01 guider. Also centered before startup but neglected log entry.

Thu Apr 29 20:09:27 GMT 2004 CHIP End Patrol

Thu Apr 29 20:13:32 GMT 2004 PICS End Patrol

Thu Apr 29 20:15:24 GMT 2004 MKIV End Patrol

Thu Apr 29 20:15:58 GMT 2004 MKIV Start Patrol

Thu Apr 29 20:16:18 GMT 2004 CHIP Start Patrol

Thu Apr 29 20:16:35 GMT 2004 PICS Start Patrol

**\*\*ECHO PROBLEM\*\***: Thu Apr 29 22:05:26 GMT 2004

Alice made two versions of echo software one to ignore stall detection and one to ignore limit switched. The no limit switch version results in normal operation, so it looks like the problem is a limit switch or the wiring between a switch and the HA motor controller board. Echo is running for now. Alice will ask Kim if we should leave it running with now limits, and also request better mechanical drawings so I can figure out which covers to remove to get at the

switches and switch cabling.

MKIV COMMENT: Thu Apr 29 22:13:46 GMT 2004

Centered 01 guider.

MKIV COMMENT: Fri Apr 30 00:43:28 GMT 2004

Centered 01 guider.

**\*\*ECHO PROBLEM\*\***: Fri Apr 30 00:43:55 GMT 2004

After receiving an emailed photo from Alice showing the cover plate with the limit switches I removed the plate and the ground wire pin broken off a connector. Couldn't find a new connector here in our stock so I have requested we be sent one. At present Echo is running software which disables the limits but we could also solder a jumper wire around the bad connector.

Fri Apr 30 01:09:01 GMT 2004 CHIP End Patrol

Fri Apr 30 01:09:07 GMT 2004 PICS End Patrol

Fri Apr 30 01:10:20 GMT 2004 MKIV End Patrol

Fri Apr 30 01:17:35 GMT 2004 MKIV Start Patrol

Fri Apr 30 01:17:55 GMT 2004 CHIP Start Patrol

Fri Apr 30 01:18:11 GMT 2004 PICS Start Patrol

Fri Apr 30 02:29:37 GMT 2004 CHIP End Patrol

Fri Apr 30 02:29:54 GMT 2004 PICS End Patrol

COMMENT: Fri Apr 30 02:30:31 GMT 2004

Reconfigured dome shutter about 01:20 UT.

Fri Apr 30 02:34:25 GMT 2004 MKIV End Patrol

Fri Apr 30 02:41:33 GMT 2004

MkIV

00_02.rawmk4	02_04.rawmk4	18_17.rawmk4	20_24.rawmk4	22_19.rawmk4
00_05.rawmk4	02_07.rawmk4	18_20.rawmk4	20_27.rawmk4	22_22.rawmk4
00_08.rawmk4	02_10.rawmk4	18_23.rawmk4	20_30.rawmk4	22_25.rawmk4
00_11.rawmk4	02_13.rawmk4	18_26.rawmk4	20_33.rawmk4	22_28.rawmk4
00_14.rawmk4	02_16.rawmk4	18_29.rawmk4	20_36.rawmk4	22_31.rawmk4
00_16.rawmk4	02_19.rawmk4	18_32.rawmk4	20_39.rawmk4	22_34.rawmk4
00_19.rawmk4	02_22.rawmk4	18_35.rawmk4	20_42.rawmk4	22_37.rawmk4
00_22.rawmk4	02_25.rawmk4	18_38.rawmk4	20_45.rawmk4	22_39.rawmk4
00_25.rawmk4	02_28.rawmk4	18_41.rawmk4	20_48.rawmk4	22_42.rawmk4
00_28.rawmk4	02_31.rawmk4	18_44.rawmk4	20_51.rawmk4	22_45.rawmk4
00_31.rawmk4	16_52.rawmk4	18_47.rawmk4	20_54.rawmk4	22_48.rawmk4
00_34.rawmk4	16_55.rawmk4	18_50.rawmk4	20_57.rawmk4	22_51.rawmk4
00_37.rawmk4	16_58.rawmk4	18_53.rawmk4	21_00.rawmk4	22_54.rawmk4
00_40.rawmk4	17_01.rawmk4	18_56.rawmk4	21_03.rawmk4	22_57.rawmk4
00_43.rawmk4	17_04.rawmk4	18_59.rawmk4	21_05.rawmk4	23_00.rawmk4
00_46.rawmk4	17_07.rawmk4	19_02.rawmk4	21_08.rawmk4	23_03.rawmk4
00_49.rawmk4	17_10.rawmk4	19_05.rawmk4	21_11.rawmk4	23_06.rawmk4
00_52.rawmk4	17_13.rawmk4	19_11.rawmk4	21_14.rawmk4	23_09.rawmk4
00_55.rawmk4	17_16.rawmk4	19_17.rawmk4	21_17.rawmk4	23_12.rawmk4
00_58.rawmk4	17_19.rawmk4	19_23.rawmk4	21_20.rawmk4	23_15.rawmk4
01_01.rawmk4	17_22.rawmk4	19_27.rawmk4	21_23.rawmk4	23_18.rawmk4
01_04.rawmk4	17_25.rawmk4	19_30.rawmk4	21_26.rawmk4	23_21.rawmk4
01_06.rawmk4	17_28.rawmk4	19_33.rawmk4	21_29.rawmk4	23_24.rawmk4

01_17.rawmk4	17_30.rawmk4	19_36.rawmk4	21_32.rawmk4	23_26.rawmk4
01_20.rawmk4	17_33.rawmk4	19_39.rawmk4	21_35.rawmk4	23_29.rawmk4
01_23.rawmk4	17_36.rawmk4	19_42.rawmk4	21_38.rawmk4	23_32.rawmk4
01_26.rawmk4	17_39.rawmk4	19_45.rawmk4	21_41.rawmk4	23_35.rawmk4
01_29.rawmk4	17_42.rawmk4	19_48.rawmk4	21_44.rawmk4	23_38.rawmk4
01_32.rawmk4	17_45.rawmk4	19_51.rawmk4	21_47.rawmk4	23_41.rawmk4
01_35.rawmk4	17_48.rawmk4	19_54.rawmk4	21_50.rawmk4	23_44.rawmk4
01_38.rawmk4	17_51.rawmk4	19_57.rawmk4	21_53.rawmk4	23_47.rawmk4
01_41.rawmk4	17_54.rawmk4	20_00.rawmk4	21_55.rawmk4	23_50.rawmk4
01_44.rawmk4	17_57.rawmk4	20_03.rawmk4	21_58.rawmk4	23_53.rawmk4
01_47.rawmk4	18_00.rawmk4	20_06.rawmk4	22_01.rawmk4	23_56.rawmk4
01_49.rawmk4	18_03.rawmk4	20_09.rawmk4	22_04.rawmk4	23_59.rawmk4
01_52.rawmk4	18_06.rawmk4	20_12.rawmk4	22_07.rawmk4	c19_08.rawmk4
01_55.rawmk4	18_09.rawmk4	20_15.rawmk4	22_10.rawmk4	c19_14.rawmk4
01_58.rawmk4	18_12.rawmk4	20_18.rawmk4	22_13.rawmk4	c19_20.rawmk4
02_01.rawmk4	18_15.rawmk4	20_21.rawmk4	22_16.rawmk4	