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Mauna Loa Solar Observatory Observer's Log
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       Tue Aug 1 16:36:14 GMT 2006
Year: 06 Doy: 213
Observer: yasukawa
WEATHER COMMENT: Tue Aug 1 16:36:27 GMT 2006
Clear, S wind 13 mph, temp 40 F.
  end
**MKIV PROBLEM**: Tue Aug 1 16:37:35 GMT 2006
Found the likely suspect TO MK4 startup problem.
Symptoms are consistent with Sunday and Monday summaries.
Allen put probes on the synchro power supplies yesterday afternoon.
This morning, 5VDC supply is reading 1.547VDC.
+ and - 15 VDC supplied reading supplying correct values.
Barrel synchro pulses showing low, 1V p-p at 25% duty cycle.
Barrel CW pulses normal for what it should be doing.
end
Tue Aug 1 16:42:31 GMT 2006
                              CHTP
                                       Start Patrol
Tue Aug 1 16:42:46 GMT 2006
                              PICS
                                       Start Patrol
SBM COMMENT: Tue Aug 1 16:42:55 GMT 2006
Observing.
end
PSPT COMMENT: Tue Aug 1 16:44:53 GMT 2006
Starting up.
  end
PSPT COMMENT: Tue Aug 1 16:57:03 GMT 2006
Observing.
end
A NEW TAPE HAS BEEN PUT INTO KAIEE DLT DRIVE, Tue Aug 1 17:02:42 GMT 2006
**MKIV PROBLEM**: Tue Aug 1 17:40:01 GMT 2006
Back in late 2001, we had a similar barrel failure attributed to a degradation
of the Semiconducter Circuits (SC) +/-15 and 5V PS. The 5V side wasn't
supplying enough current to support the synchro circuits. To fix this,
a separate 5V ps (in the black box mounted below the synchro panel) was added
to boost the capacity. The additional unit now powers the Binary-BCD module
and the original SC power supply mounted on the panel powers the Vernitech
module. This is the supply that is now probably flaky, running at only 1.5V
(the 5V side of the triple-output supply) in the early morning.
end
Tue Aug 1 17:46:29 GMT 2006
                              MKIV
                                      Start Patrol
**MKIV PROBLEM**: Tue Aug 1 17:45:35 GMT 2006
Just turned around and noted that the SC power supply is now providing
5.07 VDC and the barrel is turning. Starting Patrol.
**MKIV PROBLEM**: Tue Aug 1 17:47:05 GMT 2006
Synchro LSB pulses now look normal, barrel is turning and barrel pulses
look fine.
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Replacing the SC ps will require obtaining another unit -- no spares --
or rigging a temporary alternate supply.
end
Tue Aug 1 18:00:51 GMT 2006
                               CHIP
                                        LSD
Tue Aug 1 18:01:18 GMT 2006
                                        Flat
                               PICS
Tue Aug 1 18:02:34 GMT 2006
                                        End LSD
                               CHIP
Tue Aug 1 18:02:43 GMT 2006
                               CHIP
                                        BiasLSD
Tue Aug 1 18:03:26 GMT 2006
                                        End BiasLSD
                               CHIP
Tue Aug 1 18:03:37 GMT 2006
                                        Bias
                               CHIP
Tue Aug 1 18:03:47 GMT 2006
                               PICS
                                        End Flat
Tue Aug 1 18:03:54 GMT 2006
                               PICS
                                        ReStart Patrol
Tue Aug 1 18:04:19 GMT 2006
                                        End Bias
                               CHIP
Tue Aug 1 18:04:32 GMT 2006
                               CHIP
                                        ReStart Patrol
**PSPT PROBLEM**: Tue Aug 1 18:20:54 GMT 2006
Crashed at 1732, k/r
 end
Tue Aug 1 18:28:05 GMT 2006
                               MKIV
                                       End Patrol
Tue Aug 1 18:28:11 GMT 2006
                               MKIV
                                       Start Cal
Tue Aug 1 18:46:54 GMT 2006
                               MKIV
                                       End Cal
Tue Aug 1 18:47:00 GMT 2006
                               MKIV
                                       Start Patrol
NICE MK4
             IMAGE: 1816
NICE CHIP
             IMAGE: 1816
NICE PICSLIMB IMAGE: 1816
NICE PICSDISC IMAGE: 1816
Tue Aug 1 19:33:43 GMT 2006
                                        End Patrol
                               CHIP
Tue Aug 1 19:33:57 GMT 2006
                               PICS
                                        End Patrol
Tue Aug 1 19:34:34 GMT 2006
                               MKIV
                                       End Patrol
**MKIV PROBLEM**: Tue Aug 1 19:32:17 GMT 2006
Barrel culprit appears to be Semiconductor Circuits MP1.5.500/2.15.100
encapsulated power supply. That unit has been replaced by MP35-070. Ron
ordered a replacement and a spare for us. Replacement is in stock, spare
will take 6 weeks.
end
Tue Aug 1 19:41:22 GMT 2006
                               MKIV
                                       Start Patrol
COMMENT: Tue Aug 1 19:41:30 GMT 2006
Reconfigured dome shutter.
end
Tue Aug 1 19:41:37 GMT 2006
                               CHIP
                                        Start Patrol
Tue Aug 1 19:41:47 GMT 2006
                               PICS
                                        Start Patrol
MKIV COMMENT: Tue Aug 1 21:09:03 GMT 2006
Set up bench power supply next to KCC cabinet to allow temporary hookup
of 5VDC @ 1A (using adjusted +32V@1A terminal rather than the 8V@3A terminal
adjusted to 5V) to the +5V@500mA supply in the morning when the SC power
supply is flaked-out. This will allow an extra 1-1.5 hours of observation
early in the morning.
end
WEATHER COMMENT: Tue Aug 1 21:20:26 GMT 2006
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In orographic clouds.

end				
Tue Aug 1 21:	21:32 GMT 2006	CHIP End	l Patrol	
Tue Aug 1 21:	21:41 GMT 2006	PICS End	l Patrol	
Tue Aug 1 21:	23:50 GMT 2006	MKIV End	Patrol	
Tue Aug 1 21:	34:06 GMT 2006			
MkIV				
15 46 14	10.01	10 10 14	00 00 14	00.40
17_46.rawmk4	18_31.rawmk4	19_19.rawmk4	20_07.rawmk4	20_48.rawmk4
17_49.rawmk4	18_37.rawmk4	19_22.rawmk4	20_10.rawmk4	20_51.rawmk4
17_52.rawmk4	18_43.rawmk4	19_25.rawmk4	20_13.rawmk4	20_54.rawmk4
17_55.rawmk4	18_47.rawmk4	19_28.rawmk4	20_16.rawmk4	21_00.rawmk4
17_58.rawmk4	18_49.rawmk4	19_31.rawmk4	20_19.rawmk4	21_04.rawmk4
18_01.rawmk4	18_52.rawmk4	19_41.rawmk4	20_22.rawmk4	21_07.rawmk4
18_04.rawmk4	18_55.rawmk4	19_44.rawmk4	20_25.rawmk4	21_10.rawmk4
18_07.rawmk4	18_58.rawmk4	19_47.rawmk4	20_28.rawmk4	21_14.rawmk4
18_10.rawmk4	19_01.rawmk4	19_50.rawmk4	20_31.rawmk4	21_17.rawmk4
18_13.rawmk4	19_04.rawmk4	19_53.rawmk4	20_34.rawmk4	21_20.rawmk4
18_16.rawmk4	19_07.rawmk4	19_56.rawmk4	20_37.rawmk4	c18_28.rawmk4
18_19.rawmk4	19_10.rawmk4	19_58.rawmk4	20_40.rawmk4	c18_34.rawmk4
18_21.rawmk4	19_13.rawmk4	20_01.rawmk4	20_42.rawmk4	c18_40.rawmk4
		20_04.rawmk4	20_45.rawmk4	