

MON

BS
-5 43/64 - 1"

HI
-145.6 mm

FS
-26.9 mm

ELEV
Horz Scribe Next wall 1507

-4.20"	-252.2 mm	A	SE
-4.18	-251.7	B	NE
-4.17	-251.5	C	NW
-4.19	-252.0	D	SW

target Elevation -252.9 mm (E1000403)

HAM 3 Load Cell 3 axes

all DTs set to 500

	NE	NW	SW	SE
1	2	3	4	5
-5	-11	0	-8	-1
V	542	549	614	600
T	372	525	511	486
L			477	502

} Floating

BS	HI	FS	ELEV	
-5 44+1/64 - 1"	-146.0		-26.9 mm	
		-250.4	-4.111	NW
		-253.3	-4.222	SW
		-253.9	-4.247	SE
		-250.4	-4.110	NE

9 July (HAM 3)

	1 (NE)	2 (NW)	3 (SW)	4 (SE)
V	437	551	611	599
T	385	531	513	484
L			78	502

BS	HI	FS	ELEV	
-5 42 5/64 - 1"	145.5		-26.9 mm	
		-4.137	-250.4 mm	NE
		-4.264	-253.8	SE
		-4.260	-253.7	
		-4.129	-250.4	

HANK

1/2 Turns Down (North side)

TARGET
4.228

4.192	NW
4.259	SW
4.268	SE
4.199	NE

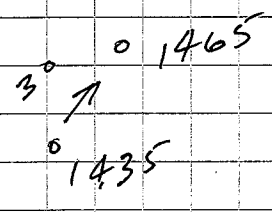
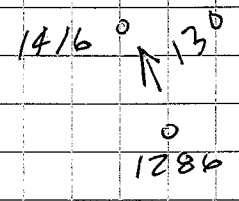
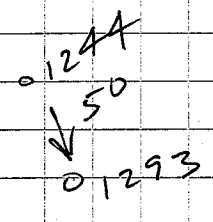
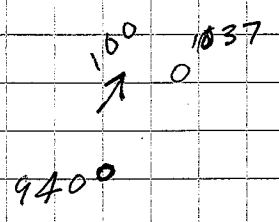
1 Turn ~~Down~~ (N side)

4.234	NE
4.269	SE
4.252	SW
4.218	NW

3/4 turn up (south)

4.241	SW	UP 13
4.218	NW	N-10
4.241	NE	UP 13
4.269	SE	UP 41

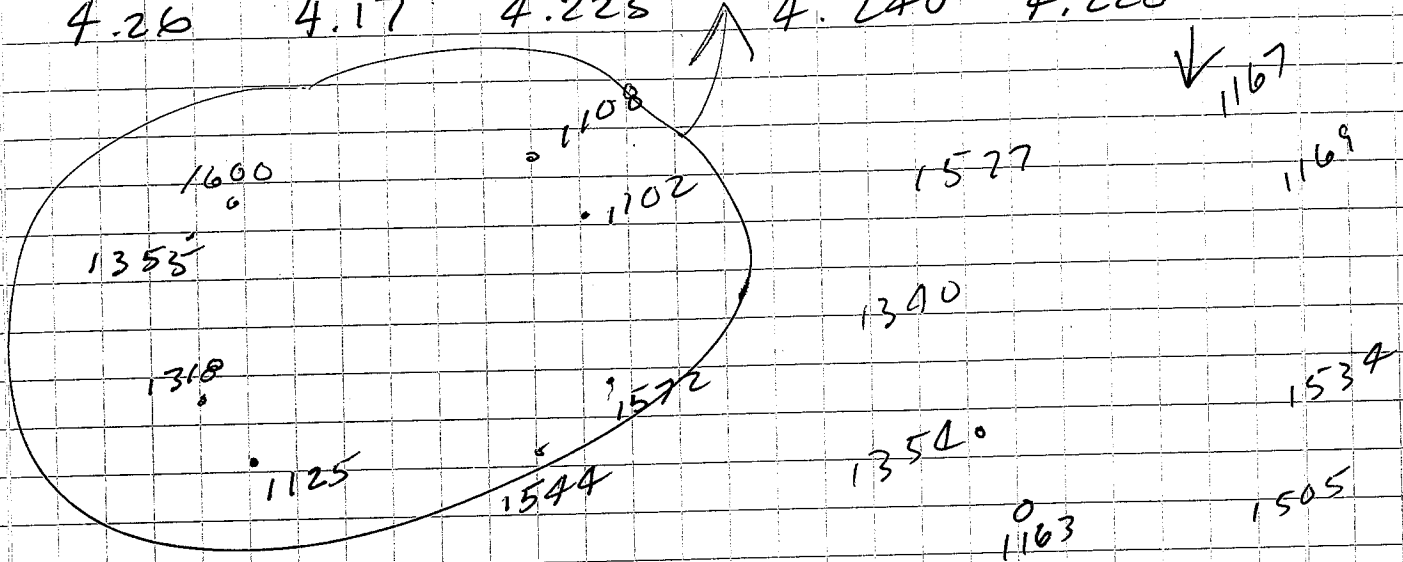
	1	2	3	4
V	574	558	566	567
T	400	514	513	483
L			496	514



SW

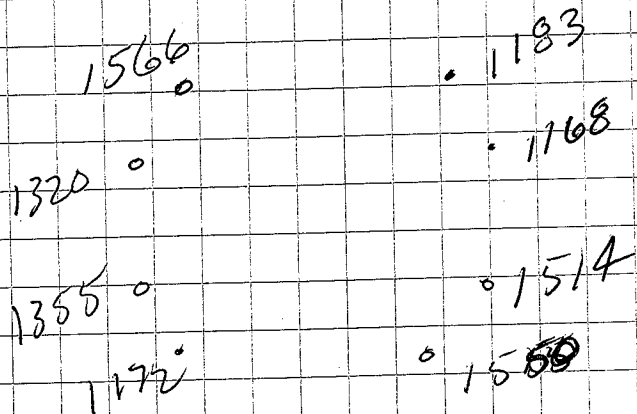
4.228	4.233
4.228	4.223
4.218	4.219
4.209	4.225

NW	4.27	4.15	4.21	4.230	4.223
SW	4.223	4.225	4.222	4.225	4.228
SE	4.218	4.235	4.237	4.235	4.232
NE	4.26	4.17	4.225	4.240	4.228



4.238
4.228
4.227
4.230

	1	2	3	4
V	577	674	568	527
T	420	596	516	481
L			513	526



	1	2	3	4
V	77W	74W		
T	80E	96E	16W	19W
L			135	265

10 July 2012 (Tuesday)

HAM3 IAS

	1	2	3	4
V	578	577	557	521
T	420	499	533	479
L			520	522

1 Turn East \rightarrow Juan says we moved a 1.5 mm

V		557	516
T		465	546
L		527	525

2 More turns E - woops, contact w/ set screws released - shifted more EAST. Too FAR

Back West 1/2 turns ~ 2mm

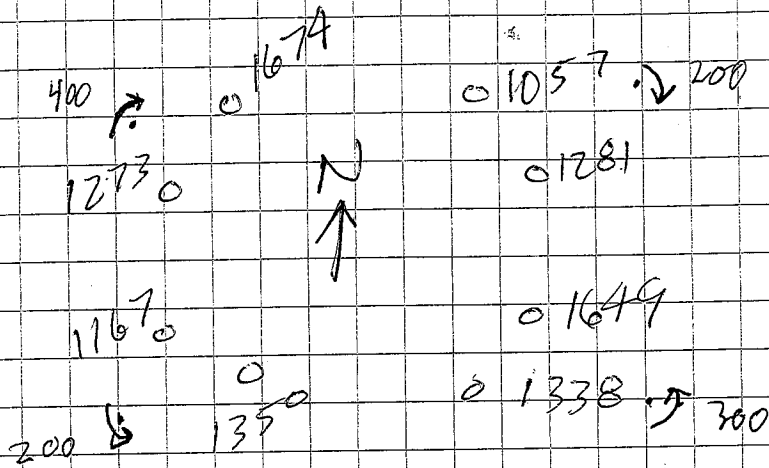
V	591	587	573	547
T	228	689	343	665
L			490	505

Need 300 mrad ccw - South Piers 1/3 turn ccw
Now @ 30 mrad

Need to go North 1/2 mm, try 1/2 turn, too much!
By time! come back south 1/4 turn good.

BB	HI	FS	ELEV	
-4 43.2"			-26.9 mm	← 252.9
	-145.6 mm			
		-4.242"	-253.4	↙
		-4.238	-253.3	W
		-4.232	-253.1	SW
		4.233	.2	S
		4.234	.2	SE
		4.241	.4	NE
		4.243	.4	N
-253.4	-253.4			
↑				
-253.3				
↑				
-253.1	-253.2			
↑				
-253.2				

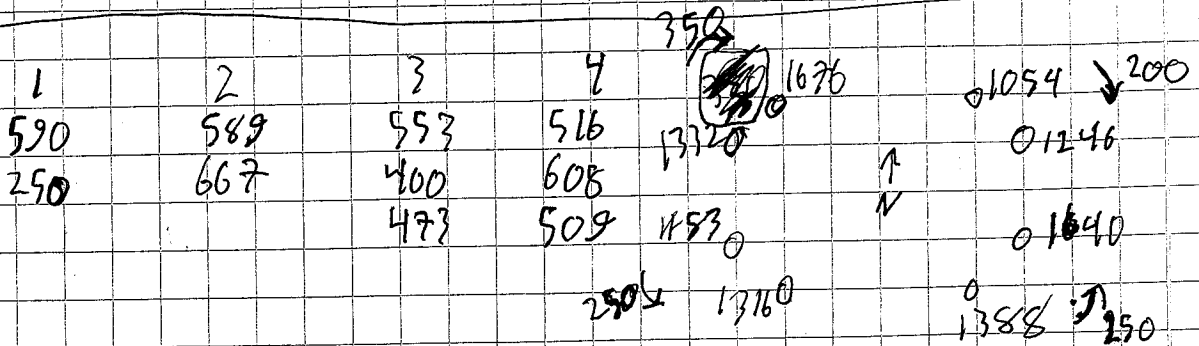
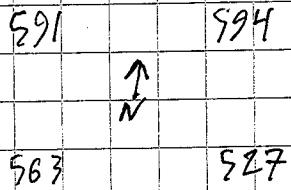
	1	2	3	4
V	594	591	563	527
T	340	673	391	618
L	0	0	0-465	499-0



HAM 3

Start of 7/11/12

	1	2	3	4
V	594	591	563	527
T	240	677	391	618
L			465	499



	1	2	3	4	320	1647	1100
V	588(+6)	580(+11)	547(+16)	512(+15)	1327		1240
NT	254(+14)	663(+14)	410(+20)	601(+17)	1201		1628
WT			471(+6)	511(+12)	100	1300	01371
WT							250

	1	2	3	4	332 1645	1114 120
V	586(+8)	578(+13)	551(+12)	519(+8)	1318	1237
T	255(+15)	662(+15)	414(+23)	592(+20)	1200	1587
L			470(+5)	511(+12)	1310	1589

	1	2	3	4	322 1640	1108 150
V	582(+12)	578(+13)	550(+13)	517(+10)	1320	1257
EW MS T	254(+14)	663(+14)	476(+25)	592(+26)	1204	1611
N/S L			470(+5)	512(+13)	105 1310	1369

548(+15) 514(+13)
414(+23) 593(+25)
471(+6) 513(+14)

545(+18) 509(+18)
411(+20) 598(+20)
472(+7) 514(+15)

547(+16) 592(+16)
408(+17) 599(+19)
473(+8) 514(+15)

	1	2	3	4	340 1590	1074 110
	577(+17)	577(+14)	591(+12)	514(+13)	1314	1281
	250(+10)	660(+7)	404(+13)	601(+17)	1165	1664
			474(+9)	514(+15)	180 1340	1325

Final 7/11/12	V	577	577	551	514	1658	1074
	T	250	670	404	601	1340	1281
	L			474	514	1165	1664
						1340	1325

AV	1	2	3	4	-253.1	-253.0
T	+17	+14	+12	+13		
L					252.8	252.9

Handwritten notes on the left margin.

12 July

HAW 3

	1	2	3	4
V	578	578	550	513
T	250	671	402	605
L			477	516

IAS surge move E 1 min

V	78		552	514
T	233	578	380	628
L		684	476	512

IAS surge OK

V	578	574	547	511
T	235	684	384	624
L			478	513

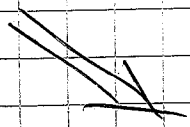
V	578	574	547	513
T	235	684	383	624
L			477	513

ΔV	+16	+17	+13	+14 \Rightarrow	-253.0	-253.0
T	2w	2w	3w	4w		
L			1s	1s	-252.8	-252.9

	1	2	3	4
V	575	572	547	508
T	210	707	374	632
L			464	510

1669 N 996
 1312 \uparrow 1328
 1122 1686
 1375 1260

ΔV	+3	+2	0	+5
T	25W	23W	11E	8E
L			14N	3N



-253.0 -252.9
 -252.8 -252.8

16 July 2012

HAMS	1	2	3	4
V	576	573	545	508
T	211	708	374	632
L			463	509

1467
 1372
 1123
 997
 1325
 1683
 1259
 1375
 P2 Vert Bolts not tight
 all others untreated. E side
 not may be touching but DIs
 Respond down

Δ V	+18	+18	+18	+19
T	22W	23W	4E	6E
L			13N	4N

253.0 253.0

1/3 turn E on North (4) Springs

V	⁵⁷³ 190	574	545	508
T	190	730	372	634
L			461	514

252.7 252.8
 1712.1 8.988
 1292.2 7.1364
 1107.3 6.1697
 1388 4 5.1266

Δ V	+3	-1	0	0
T	21W	22W	2E	2E
L			2N	5S

Need to go still:

V	0	+4	-8	-4
T	0	0	W6	W8
L			5.15	5.9

6 ↓ 1/2 T 5 A 1/4 turn
 Dam 2 36 WZ
 6 + 1/2 5 ↑ 1/4 T
 5 ↓ 1/3 6 ↑ 1/4 T
 5 ↓ 1/4 6 ↑ 1/4 T

V	575	571	553	513
T	186	733	376	630
L			459	522

1710
 1288
 1107
 1398
 984
 1347
 1643
 1256

Need to go	+2	+1	0	+1
	4W	3W	2W	4W
			17S	1S

8 A 1/2 7 ↓ 1/4 ⇒ Up 5 W 8
 8 ↓ 1/4 7 ↑ 1/8 ⇒ Down 2 E 4

V	572	570	548	513
T	191	728	376	630
L			457	517

1708
 1282
 1107
 1463
 1628
 1266

Δ	+22	+21	+15	+14
	W43	W43	E6	E4
			N20	S5

IAS SKY, go 400 μ rad ccw others good, could

#AW3

go west $\frac{1}{2}$ mm
 try $\frac{1}{3}$ turn ccw \Rightarrow IAS says good!

	1	2	3	4		
V	573	570	548	513	16580	1058
T	203	715	352	654	12980	1296
L			469	505	10810	1621
					1420	1250

Again IAS says this is good \uparrow

ΔV	+21	+21	+15	+14 \Rightarrow	252.9	252.9	from
ΔT	w12	w13	E24	E24	252.8	252.8	Sum
L			S12	N12			1-10, shot today

Dropped Spring 3 $\frac{1}{3}$ (SW) $\frac{1}{3}$ TEACH

V	570	570	555	517
T	204	715	352	654
L			468	505

	1	2	3	4
V	570	570	555	517
T	196	721	345	659
L			470	506

	1	2	3	4
V	570	567	553	516
T	200	717	355	652
L			470	507

Jim's bug High Attached Vent Actuators

17 July HAM3

	1	2	3	4
V	2015	567	554	517
T	5702	716	356	652
L			470	507

1671 1044
 130702 ↑ 701259
 HAM3
 107103 601641
 1396 501246

Connected 3 Horiz Act (-NE)

18 July HAM3

V	568	566	556	518
T	203	715	360	647
L			469	508

Connected NE Horiz Act - No change!

Horiz Act Released - Only good small changes

Vert Act Released:

	1	2	3	4
V	576	573	562	528
T	205	714	359	647
L			470	509

ITS says OK

ΔV	-X+18	-X+18	-X+1	-X-1	From post 10 July survey plat →	-253.0	N ↑ -252.8
T	2W	1W	7W	7W	From previous 1AS OK before Act conn release →	-253.0	-253.3
L			1S	4S		CW Rot	

19 July HAM3

BM-4	135"	141	FS	ELEV	Horiz Scribe next TGT '501'
4-43.9/64"	145.9mm	4.218"		-26.9mm	N
		4.217		-253.1mm	NW
		4.216		-253.0	W
		4.218		-253.0	SW
		4.227*		-253.1mm	S ←
		4.218		-253.3	SE
		4.218		-253.1mm	ESE
		4.218		-253.1mm	ENE ←
		4.212*		-252.9	NE
		4.217		-253.0	ENE ←
		4.212*		-252.9	S ←
		4.218		-253.0	
		4.218		-252.9	
		4.218		-253.1mm	

Repeats