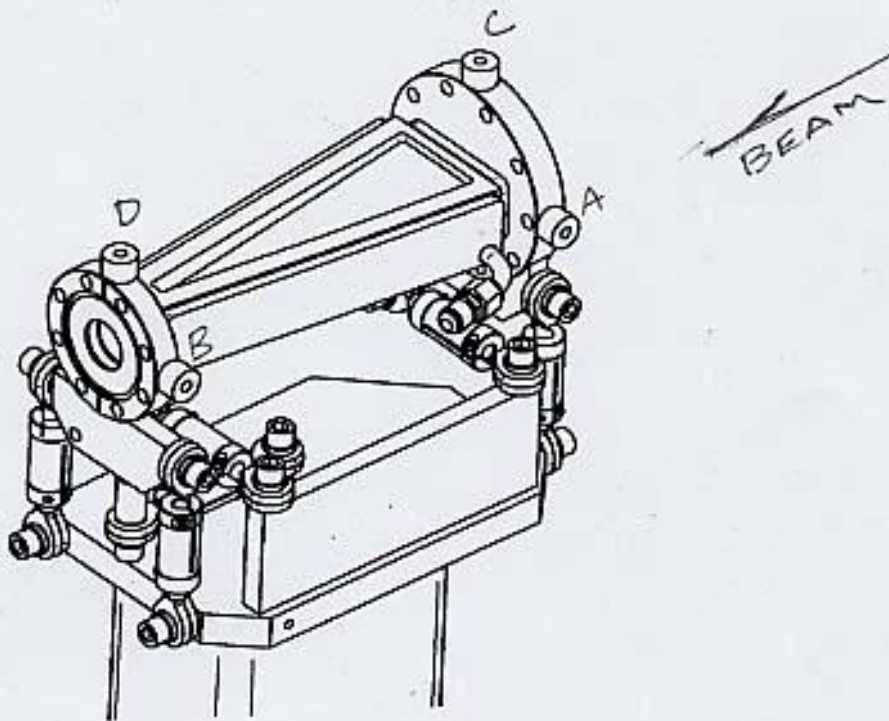


SSRL
BL 12-2 2ND PIVOT MASK

4-06



VALUES FROM CENTER OF
U/S & D/S APERTURES, Z=0 DIS
HORIZ. APERTURE

	X	Y	Z
A	+3.786	-.063	-8.703
B	+3.169	-.031	+1.092
C	-.087	+3.782	-8.683
D	+.034	+3.164	+1.075

VALUES WITH D/S HORIZ. APERTURE
OFFSET 1.361" IN X & Z @ 756.024". MASK
AT +7.2MRAD YAW ANGLE.

	X	Y	Z
A	+5.085	-.063	+747.293
B	+4.538	-.031	+757.093
C	+1.212	+3.782	+747.342
D	+1.403	+3.164	+757.098

BL 12-2 2ND PIVOT MASK
LAB DATA

4-28-06
MR LG

Y)

34.178 READ @ BASE
41. — DIM. FROM BOTTOM OF PLATE TO PIVOT
- 6.822 H.I.
4.543 REF READ
11.365 BLADE & ✓

3513
233513

D/S GAP
.344/2 = .172 GAP VARIFIED
11.365
.172 /
11.537 TOP GAP

11.365
.172 /
11.193 \neq

U/S GAP
.871/2 = .436 GAP VARIFIED
11.365
.436 /
11.801 TOP GAP

11.365
.436 /
10.929 \neq

24.470 REF BLADE
11.365
13.105 H.I. ✓

A) 12.168
1. —
13.168
13.105
-0.063 ✓

B) 12.136
1. —
13.136
13.105
-0.031 ✓

C) 8.323
1. —
9.323
13.105
+3.782 ✓

D) 8.941
1. —
9.941
13.105
+3.164 ✓

X) U/S FLANGE 4.608/2 = 2.304 D/S FLANGE 3.366/2 = 1.683 ✓

FV 2.304

NV 1.683

31.000	A) 26.017	B) 25.400	C) 30.015	D) 30.136
22.622	8.871	8.871	1. —	1. —
32.000	34.888	34.271	31.015	31.136
32.203	-31.102	-31.102	-31.102	-31.102
28.760	+3.786 ✓	+3.169 ✓	-0.087 ✓	+0.034 ✓

29.38 + 29.386
31.064
28.798 ✓
29.419 ✓

LOS -31.102 D/S WIDTH
31.000 REF .394/2 = .197

32.102 & BLADE
.197 TO EDGE (-) SIDE GAP VARIFIED /
31.905 S/R (-) SIDE 32.299 S/R (+) SIDE
 \neq

28
4/06

LAB DATA

MR LG

Z) BLADE FROM D/S END COPPER

10.788

1. —

11.788

.750 TO D/S *X" APERTURE

12.538 LOS

A) 12.684

8.557

21.241

12.538

-8.703 ✓

B) 10.446

1. —

11.446

12.538

+1.092 ✓

C) 20.221

1. —

21.221

12.538

-8.683 ✓

D) 10.463

1. —

11.463

12.538

+1.075 ✓

SET X TO FRAME

- 2.250

- 2.250

29.011

28.797

24.000

24.237

26.633

26.633

-28.883

U/S FLANGE

28.883

2.304

26.579 ✓

D/S FLANGE

28.883

1.683

27.200 ✓

2.2
4/06

4-28-06

12-2 2nd PIVOT MASK (trans "x", rot 7.2, trans "z" 19203)

122PMA	129.15	-1.6	18981.01	
122PMB	115.27	-0.79	19229.91	
122PMC	30.78	96.06	18982.22	MM
122PMD	35.64	80.37	19230.05	
122PMUS	33.12	0	19000.75	
122PMDS	34.58	0	19202.75	

122PMA	5.0846	-0.063	747.2838	
122PMB	4.5382	-0.031	757.083	
122PMC	1.2119	3.782	747.3317	Inches
122PMD	1.4031	3.164	757.0885	
122PMUS	1.3041	0	748.061	
122PMDS	1.3614	0	756.0138	

SSRL

BL12-2 2nd Pivot Mask (rot.7.2, trans. "x" and "z")

122PMA	129.15	-1.6	18981.26	
122PMB	115.27	-0.79	19230.16	
122PMC	30.78	96.06	18982.47	mm
122PMD	35.64	80.37	19230.3	
122PMUS	33.13	0	19001	
122PMDS	34.58	0	19203	

	X	Y	Z	
122PMA	5.0847	-0.063	747.2936	
122PMB	4.5382	-0.031	757.0928	
122PMC	1.2119	3.782	747.3415	Inches
122PMD	1.4032	3.164	757.0983	
122PMUS	1.3042	0	748.0708	
122PMDS	1.3614	0	756.0236	

BL 12-2 2ND PIVOT MASK

Measure pressure drops at 3 flow rates:

Pressure drop at 2.0GPM ~~120~~ 2.6GPM ~~120~~²⁰⁰ 3.0GPM ~~120~~²⁵⁰

Weld assembly SA-451-057-61, according to tree layout

- 5 _____ Weld parts and subassemblies. Respect dimensions and geometrical tolerances as per SA-451-057-61. The weld set up must be inspected by D Harrington or Jean Charles Castagna before proceeding.
- 6 _____ Fiducialize US and DS apertures of the Mask (US aperture is understood as the biggest window on the glidcop body of the mask assy. DS aperture is understood as the smallest defining aperture on the glidcop body of the mask assy.)

Installation on site: drawing ID-451-057-80

Install mask on its pedestal according to ID-451-057-80
The mask is at a tilted yaw angle of 7.20mrad from beamline center.
X positive towards SSRL

Position of the center of US aperture relative to 12-2 beam line source
X=33.13 ± 0.5mm
Y=0 ± 0.5mm
Z=19001 ± 5 mm (Z position is dictated by DS aperture Z position)

Position of the center of DS aperture relative to 12-2 beam line source
X=34.58 ± 0.5mm
Y=0 ± 0.5mm
Z=19203 ± 5 mm

Beverly Monda

From: "Castagna, Jean Charles" <castagna@slac.stanford.edu>
To: <bmonda@mon-tek.com>
Cc: "Rabedeau, Thomas" <rabedeau@slac.stanford.edu>; "Greer, Julie M." <greer@slac.stanford.edu>; "Harrington, Daniel" <harring@slac.stanford.edu>
Sent: Wednesday, March 29, 2006 3:23 PM
Attach: pf45105784.dft.tif
Subject: PF-451-057-69 MODIFICATION

To Herb's attention

Please find attached drawing PF-451-057-84 as a modification to correct the EDM error on PF-451-057-69.

-The dimensions in the horizontal aperture (section BB) should remain the same.

-The dimensions in the vertical aperture (section AA) have been modified to accommodate the EDM error and take into account the present dimensions you provided.

They change as follows:

.315 (8MM) → .344 (8.74MM)

.750 → 1.17

.472 → .550

(11.99°) → (10.1°)

Please respect tolerances as specified.

You can call me for any complementary information.

Jean-Charles Castagna

SLAC-SSRL
2575 Sand Hill Road
Mail Stop 99
Menlo Park 94025 CA
Tel 650 926 5109
Fax 650 926 3819
castagna@slac.stanford.edu

chuck cell phone
15108 250 9644

Beverly Monda

From: "Castagna, Jean Charles" <castagna@slac.stanford.edu>
To: <bmonda@mon-tek.com>
Sent: Monday, March 27, 2006 3:03 PM
Subject: PF-451-057-69 mod

Chuck,

Sorry for the delayed delivery of this email, I had the wrong adress.

As I mentionned to Erb we should be able to save this part, here are the things we want you to be carefull about.

-The horizontal aperture dimensions on section BB are very critical and should not change: That's the .394(10mm), .551, and .750 dimensions.

-The vertical aperture on section AA can accept the following modifications:

The .315 (8MM) dimension should stay as close to the 8MM value as possible, up to 9MM is still acceptable.

The .472 dimension is not as critical and we will accept the .530 value you have now.

The .750 dimension should remain the same. The 11.99° angle can be changed to accommodate for the other dimensions increase.

Please let us know the resulting dimensions you are expecting to get before proceeding.

Thanks

Jean-Charles Castagna

SLAC-SSRL

2575 Sand Hill Road

Mail Stop 99

Menlo Park 94025 CA

Tel 650 926 5109

Fax 650 926 3819

castagna@slac.stanford.edu