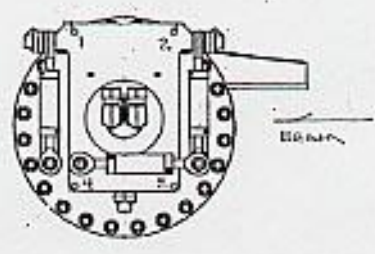
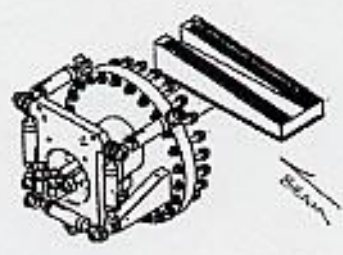


2/2005

SSRL BL9 BPM COMB MASK



	X	Y	Z
1	15.241	+0.729	+2.212
2	15.217	+0.747	-2.258
3	15.056	-6.254	-2.289
4	15.097	-6.299	+2.180

94-5302-6

16 FEB 2005 ^{1/3}

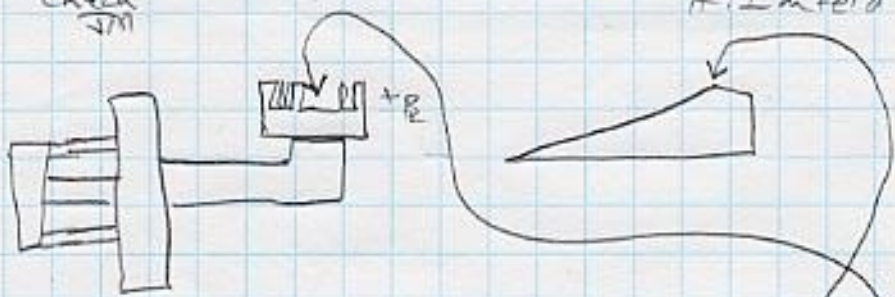
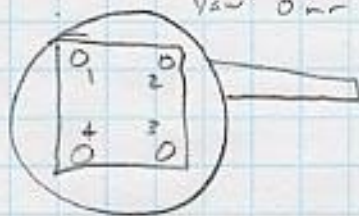
BL9 BPM Comb Mask

J. McDaniel
H. Imfeld

Tolerances:

x $\pm .001$
y $\pm .010$
z $\pm .050$
Roll $\pm 1 \text{ mrad}$
Pitch $\pm 1 \text{ mrad}$
Yaw 0 mrad

check
JMI



Roll removed from high points of Mask slit.
 $\pm 1 \text{ mrad} \Rightarrow \pm .003''$
 Pitch removed from inner channel of Mask slit.
 $\pm 1 \text{ mrad} \Rightarrow \pm .010''$

Roll set to $.001''$
 Pitch set to $.001''$

Ⓢ

Top of flange
 READ 3.467
 VAL 1.490
 HI 4.957

Flange $\Phi = 9.980 \Rightarrow \text{rad} = 4.990$
 rad 4.990
 Fl. G -3.500 (SA-451-022-70)
 Top 1.490

Roll = $\frac{+x}{4.382} \quad \frac{-x}{4.383} \quad \boxed{\pm 0.33 \text{ mrad}}$

U/s inner channel
 HI 4.957
 VAL -0.589 (-14.97 mrad SA-451-022-70)
 SIR 5.546
 SET 5.546 $\boxed{0}$

D/s inner channel
 HI 4.957
 VAL -0.589
 SIR 5.546
 SET 5.545 $\boxed{+0.001}$

Pitch = $\boxed{-0.1 \text{ mrad}}$

	1	2	3	4
HI	4.957	4.957	4.997	4.957
RD	3.228	3.210		4.356
S/T	1.729	1.747		0.601
FT	1	1		-6.900
VAL	0.729	0.747		-6.298

mic 2-3

TBZVAL	0.747
MIC	-7.503
S/T	-6.756
FT	0.500
VAL	-6.256

B29 Comb Mask check in

⊗ Buck-in on back of 9.980 flange

FAR 209.73mm 8.257" (SA-451-022-70)
 NEAR 209.73mm 8.257"
 1st F -13 —
 1st N -13.054
 2nd F -13.500
 2nd N -13.488
 S/R F -13.409
 S/R N -13.409 ✓
 LOS -5.152

	Mask U/S For Slit Edge	Mask D/S For Slit Edge
LOS	-5.152	-5.152
VAL	17.23mm 0.678 (SA-451-022-70)	0.678
S/R	-5.830	-5.830
SET	-5.826 -.004	-5.826 -.004
	YAW = 0mm	

Lay blades + Move

New blade RD	46.000
Old blade RD	<u>12.000</u>
S/T	34.000
Old LOS	<u>-5.152</u>
New LOS	28.848

	1	2	3	4
LOS	28.848	28.848	28.848	28.848
RD	<u>12.607</u>	<u>12.631</u>	<u>12.542</u>	<u>12.751</u>
S/T	16.241	16.217	16.306	16.097
FT	<u>1</u>	<u>1</u>	<u>1.250</u>	<u>1</u>
VAL	15.241	15.217	15.056	15.097

check Jan

② Auto collimate

Support stem $\phi = 1.988$

9.980 flange
 RD -16.210
 VAL -4.990
 LOS -21.200

LOS -21.200
 VAL -(-0.994)
 S/R -20.206
 SET -20.206



Move

~~Auto Collimate
 9.980 FL~~

~~RD
 VAL -4.990
 LOS~~

	1	2	3	4
LOS	-21.200	-21.200	-21.200	-21.200
RD		-(-17.942)	-(-17.911)	
S/R		-3.258	-3.289	
FT		1	1	
VAL		-2.258	-2.289	

	1	4
TBVAL	-2.258	-2.289
Mic 1-2	4.970	4.969
S/E	2.712	2.680
FT	0.500	0.500
VAL	2.212	2.180