

# BL II Mask Assy

9-11-03  
Perry McDugal

## Y Level

Y Level				0/s		1/s	
1	2	3	4	1	2	3	5
19.282	19.282	19.282	19.282	19.282	19.282	19.282	19.282
-0.018	-1.000	-1.014	+6.498	.011	-0.116	-1.100	6.464
19.300	20.282	20.296	12.784	19.271	19.398	19.382	12.818
1	1	1	1	1	1	1	1
18.300	19.282	19.296	11.784	18.271	18.398	18.382	11.818
18.080	19.345	19.465				18.372	12.818
18.307	19.287	19.300				+0.010	0
18.302	-0.005	-0.004					
-0.002							

### X TC 2002

1	2
6.482	12.487
6.484	12.486
+0.002	-0.001

### Fixed

0/s	1/s
4.863	6.484
	6.484
	0

### HI

HRWS 090	SM17F1
-42.098	-42.131
3.627	3.665
57.75	57.75
19.279	19.284
	19.282

### Z

242.162 (Plan)	198.01
+ 7.043 Val T/81	.125
249.205	
1.1 width of reduction flange	
250.305 -	
250.302 -	
-0.003	

29  
9-15-03

Return-path: <RABEDEAU@SSRL.SLAC.STANFORD.EDU>  
Received: from SSRL.SLAC.STANFORD.EDU by SSRL.SLAC.STANFORD.EDU  
(PMDF V6.2 #37667) id <01KXQS9Q90K08WW7CL@SSRL.SLAC.STANFORD.EDU>; Tue,  
01 Jul 2003 12:14:07 -0700 (PDT)  
Date: Tue, 01 Jul 2003 12:03:19 -0700 (PDT)  
From: RABEDEAU@SSRL.SLAC.STANFORD.EDU  
Subject: bend BL front end position  
To: bart@SSRL.SLAC.STANFORD.EDU, brehmer@SSRL.SLAC.STANFORD.EDU,  
harring@SLAC.Stanford.EDU, tompkins@SSRL.SLAC.STANFORD.EDU  
Cc: rhpaul@SSRL.SLAC.STANFORD.EDU, peck@SSRL.SLAC.STANFORD.EDU,  
rabedeau@SSRL.SLAC.STANFORD.EDU, rowen@SSRL.SLAC.STANFORD.EDU,  
weavers@SSRL.SLAC.STANFORD.EDU  
Message-id: <01KXQS09C6YC8WW7CL@SSRL.SLAC.STANFORD.EDU>  
MIME-version: 1.0  
Content-type: TEXT/PLAIN; CHARSET=us-ascii

Gentlemen,

As I discussed with you all today, we realized that the changed source location associated with the bend fringe field results in a shift of the FM/MM and IS modules with respect to the SPEAR3 exit port if we hold to the coordinates noted in ID 451-008-00. Unfortunately, the shift is too large to accomodate with the exit bellows. Thus we need to shift the FE module locations as will be reflected in rev 1 of ID 451-008-00. The shift is 0.465" upstream. In the SPEAR3 bend coordinate system with fringe field correction (ie., the coordinate system determined in 4/03), the FE flanges will be located as follows (x, z in inches):

moveable mask entrance flange center = (0.000, 251.750)  
injection stopper entrance flange center = (0.000, 295.177)  
injection stopper exit flange center = (0.000, 314.177)

In conversations with each of you it sounds like you can accomodate these changes with bellows extensions or changed spool lengths where the spools have yet to be fabricated. We tried to share the pain of the ~21mm source relocation roughly equally. Please let me know today or tomorrow if this creates any insurmountable issues as I will be on vacation 7/3-13/03. Thanks

Tom