

5

4

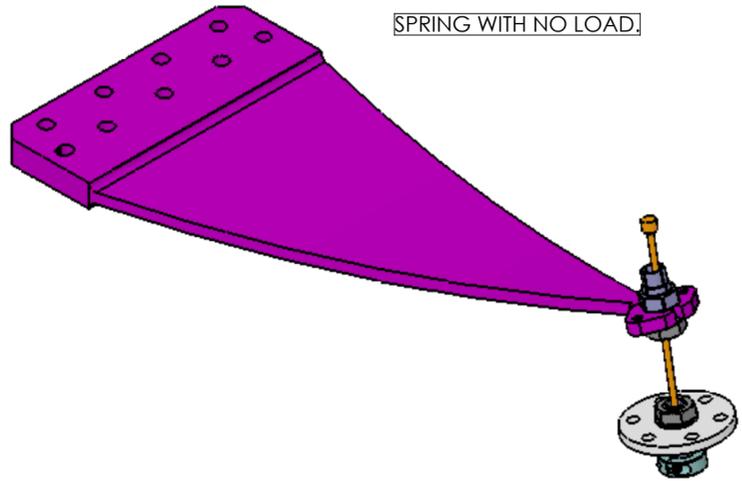
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2

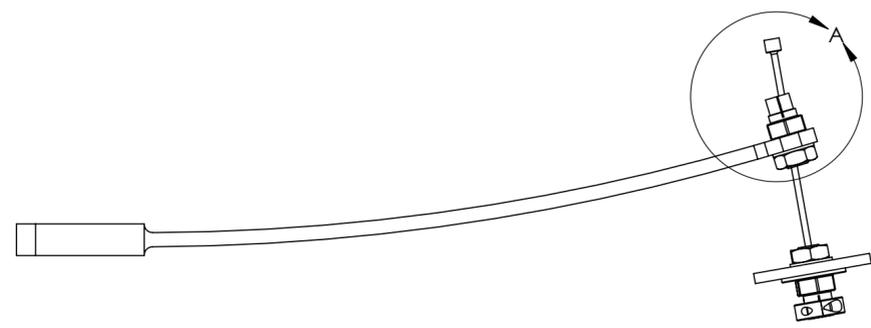
1

REVISION HISTORY				
REV	DATE	ECO	APPROVAL	DESCRIPTION
B	6/15/2007	1064	J. Waterman	Manufacturing Release
C	01/29/2008	-	A. STEIN	Added detail. Updated BOM.

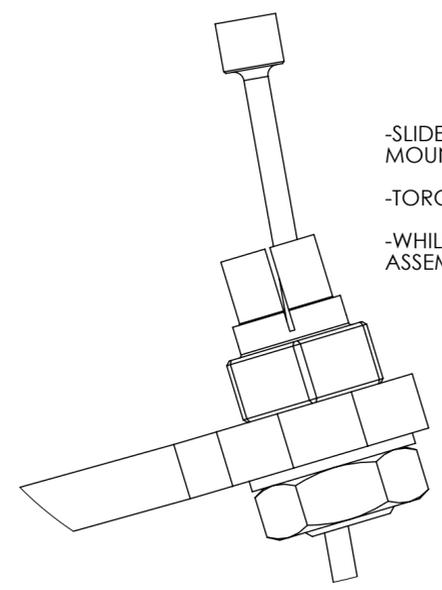
D



C



B



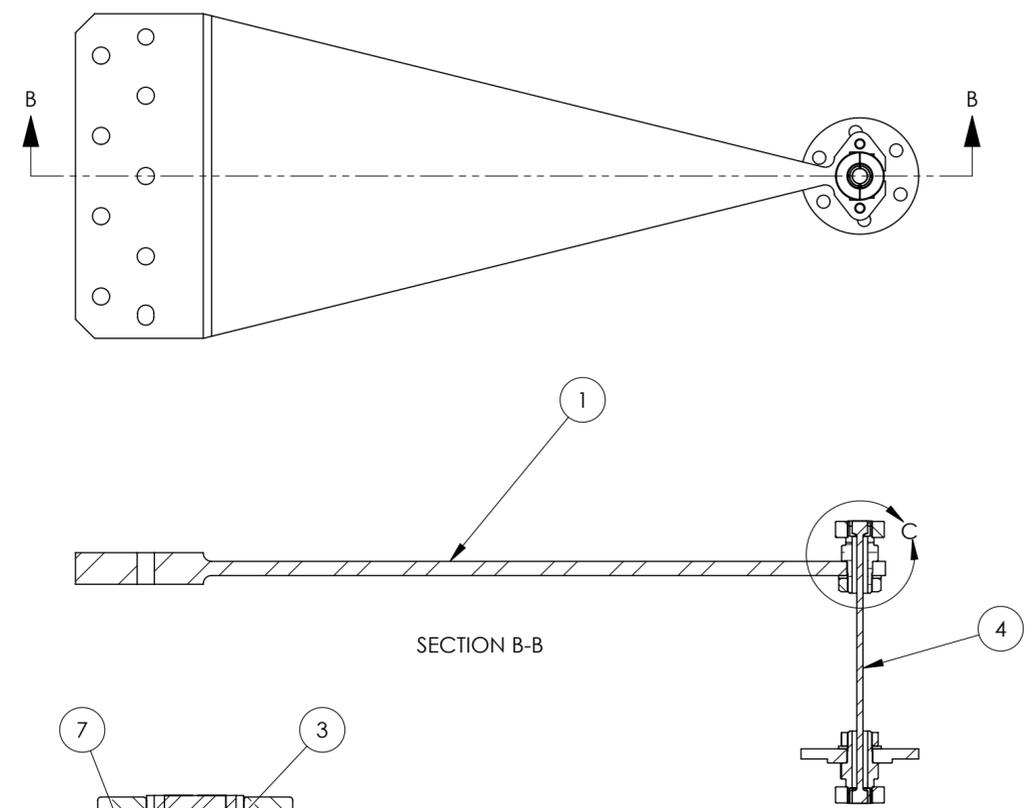
- SLIDE FLEXURE MOUNT OVER TOP OF FLEXURE, THEN SEAT FLEXURE MOUNT IN END OF SPRING.
- TORQUE JAM NUT TO FINAL SPEC BEFORE LOADING SPRING.
- WHILE LOADING SPRING (WITH D071500), BOTTOM OF FLEXURE ASSEMBLY MUST BE KEPT FREE OF OBSTRUCTIONS.

DETAIL A
SCALE 1 : 1

A

- NOTES:
- SEE E070154 (ADVANCED LIGO SINGLE STAGE HAM VIBRATION ISOLATION TABLE ASSEMBLY PROCEDURE) FOR ADDITIONAL ASSEMBLY NOTES AND REQUIREMENTS.
 - FLEXURE IS FRAGILE: HANDLE WITH CARE.
 - DO NOT BEGIN ASSEMBLY UNTIL SPRING IS MOUNTED TO SUPPORT POST ON STAGE 0.
 - MATCH EDGES OF FLEXURE CUPS WITH SLITS IN TOP FLEXURE MOUNT.
 - ENSURE TOP OF FLEXURE IS FULLY SEATED IN FLEXURE CUPS AND FLEXURE MOUNT, BEFORE TIGHTENING SHAFT COLLAR.

SPRING LOADED FLAT.



SECTION B-B

DETAIL C
SCALE 1 : 1

BILL OF MATERIALS					
ITEM NO.	QTY/ASM	PART NUMBER	DESCRIPTION	CONFIG DESCRIPTION	MATERIAL
1	1	D071100	SPRING	-	MARAGING 300
2	1	D071103	FLEXURE MOUNT	-	17-4 PH H1150
3	2	D071104	FLEXURE CUP	-	MARAGING 300
4	1	D071431	ASM, FLEXURE	-	See BOM
5	1	MCMaster 98017A220	FLAT WASHER	.765"IDx1.312"OD	18-8 SS
6	1	MCMaster 91847A550	HEX JAM NUT	3/4"-10	18-8 SS
7	1	MCMaster 9633T15	SHAFT COLLAR	3/4"IDx1.5"OD	316 SS / 18-8 SS

PRIOR P/N:	p06109-430-0
APPROVALS	DATE
ENGINEERING	J. Waterman 6/15/07
MANUFACTURING	
QUALITY	C. Danaher 6/15/07
MATL:	See BOM
FINISH:	See BOM

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 DECIMAL TOLERANCES:
 .XX ±.015 .XXX ±.005
 ANG TOL: ± 1° SURFACE ROUGHNESS: 63
 INTERNAL AND EXTERNAL INTERSECTIONS SHALL BE UNIFORMLY FINISHED WITH A CHAMFER .005/.010 X 45° OR RADIUS .005/.010.
 CHAMFER ALL THREADED HOLES 110% OF MAJOR DIAMETER X 45°

High Precision Devices
 1668 Valtec Lane, Suite C, Boulder, Colorado 80301
 Phone: (303) 447-2558 Fax: (303) 447-2548 Web Site: www.hpd-online.com

DESCRIPTION: **ASM, SPRING AND FLEXURE**

P/N: **D071430** CONFIG DESC: -

FILE NAME: D071430-C Asm, Spring and Flexure

FOLDER:

SIZE	SCALE: 1:4	DRAWN BY: Jonas Waterman	REV
C	SHEET 1 OF 1	DATE PRINTED: 1/29/2008	C