



CALIFORNIA INSTITUTE OF TECHNOLOGY  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

DCN No. E980249-00-D

SHEET 1 OF 1

## DOCUMENT CHANGE NOTICE (DCN)

DOCUMENT No. (DOC-REV-GP. ID)	TITLE	NEW REV.
D970550-A-D	Guide Rod Fixture, Beamsplitter Optics	B
D960147-B-D	Guide Rod Fixture	C

**CHANGE DESCRIPTION (FROM/TO):**

1. Add holes, like the ones on the fabricated D960147, for mounting a clamp fixture for the indium seals.
2. Document holes, for as-built configuration.

*Electronically  
Submitted  
9-22-98*

**REASON FOR CHANGE:** Continuity and document as-built configuration.

**ACTION:**  Incorporate change  Attach DCN to drawing(s)  Other action (specify):

**DISPOSITION OF HARDWARE (IDENTIFY SERIAL NUMBERS)**

- No hardware affected (record change only)
- List S/Ns which comply already: D960147, s/n 001 and 002
- List S/Ns to be reworked or scrapped:
- List S/Ns to be built with this change:
- List S/Ns to be retested per this change:
- 
- 
- 
- 

**DCN DISTRIBUTION (X=incl. docs)**

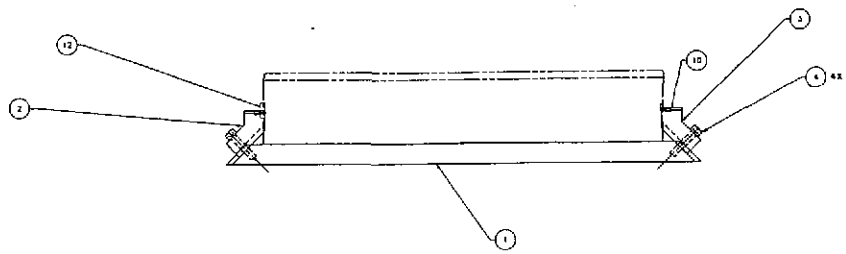
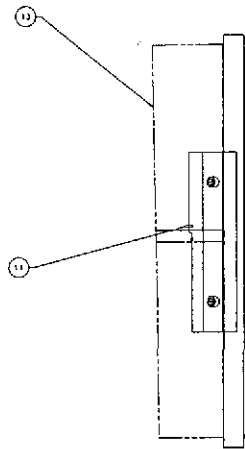
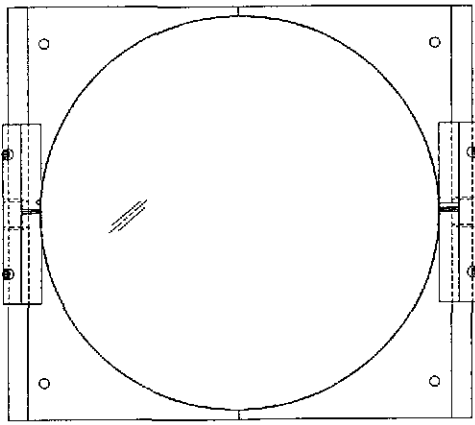
Althouse	Barish	Coles
X Coyne	Lazzarini	Lindquist
Roab	Sanders	Shoemaker
Stapler	Tyler	Weiss
Whitcomb	Zydowicz	
Bork	Zucker	
Barton	Mason	
Camp	Jones	
Fine		
X Romie		

**SAFETY, COST, SCHEDULE, REQUIREMENTS IMPACT?**  No  Yes (if yes, enter Change Request number )

APPROVALS:	DATE	OTHER APPROVALS (specify)	DATE
ORIGINATOR: J. Romie	9-15-98		
TASK LEADER: <i>[Signature]</i>	<i>9-22-98</i>		
GROUP LEADER: <i>[Signature]</i>	<i>9/28/98</i>		
DCC RELEASE: <i>[Signature]</i>	<i>9/30/98</i>		

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. THIS FIXTURE IS TO BE USED WITH AN OPTIC THAT IS  $\varnothing 9.84" \times 1.575"$  THICK ( $\varnothing 25\text{cm} \times 4\text{cm}$  THICK) WITH A 1 DEGREE, THICK-SIDE-UP ORIENTED WEDGE.
2. CLOSE SLIP FIT.
3. THE RIGHT BLOCK, TOP IS USED TO MOUNT THE GUIDE ROD AND THE LEFT BLOCK, TOP IS USED TO MOUNT THE WIRE STANDOFF.
4. USE OF THIS FIXTURE IS COVERED IN LIGO-E970154.
5. SPECIFICATIONS COVERING THE FABRICATION OF THIS ASSEMBLY ARE DETAILED IN LIGO-E970155, THE LARGE OPTIC SUSPENSION (LOS) FIXTURES AND COMPONENTS FABRICATION SPECIFICATION.



**ELECTRONIC COPY**

REV	DATE	DRAWN BY	CHECKED	DATE	DESCRIPTION/REVISION
A	8/1/98	J. KIM			ESB0232/INITIAL RELEASE
B	7/22/98	J. KIM			ESB0232/ADD HOLE IN BASE

REV	DATE	DESCRIPTION	QTY	UNIT	REVISION
1		OPTIC	1		1
1		WIRE STANDOFF	2		2
1		GUIDE ROD	2		3
1		WEDGE/STANDOFF ASSEMBLY	2		4
1		BASE PLATE	1		5
1		STAINLESS STEEL	1		6
1		3/8" DIA. 316 SS. 1/2" L. 25	1		7
1		DETAIL SHEET 3 1/2" DIA. BLOCK TOP	1		8
1		DETAIL SHEET 3 1/2" DIA. BLOCK BOT	1		9
1		DETAIL SHEET 3 1/2" DIA. PLATE	1		10
1		STAINLESS STEEL	1		11

APPROVALS	DATE	BY
DESIGNED BY J. KIM		
CHECKED BY J. KIM	8/98	
DO NOT SCALE DRAWING		

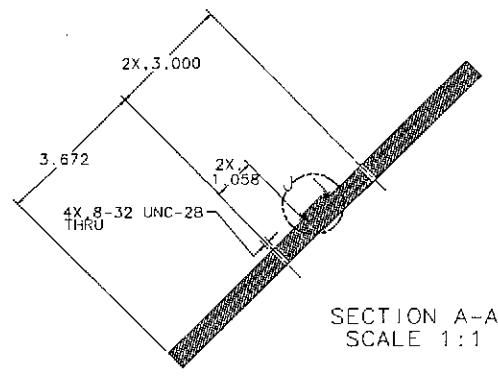
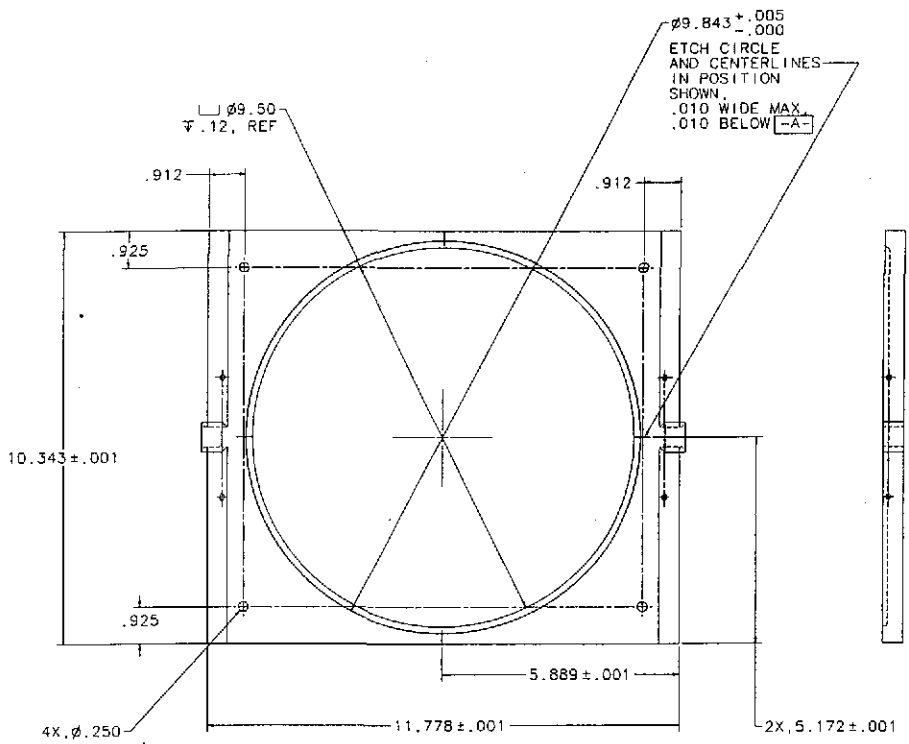
  

PROJECT NUMBER D970550	DATE 7/22/98	BY J. KIM	REV 1
LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		GUIDE ROD FIXTURE, BEAMSPLITTER OPTICS A	
D970550		REV 1 OF 3	

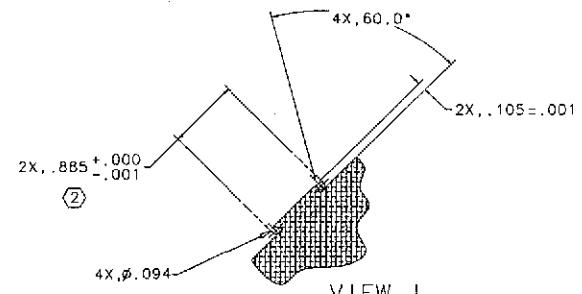
1 2 3 4 5 6 7 8

REV	DATE	BY	CHKD	DESC	REVISION/DESCRIPTION
A	11-14-68	J. M. H.			REWORKED INITIAL RELEASE
B	1-20-69	J. M. H.			ENLARGED HOLE ON BASE

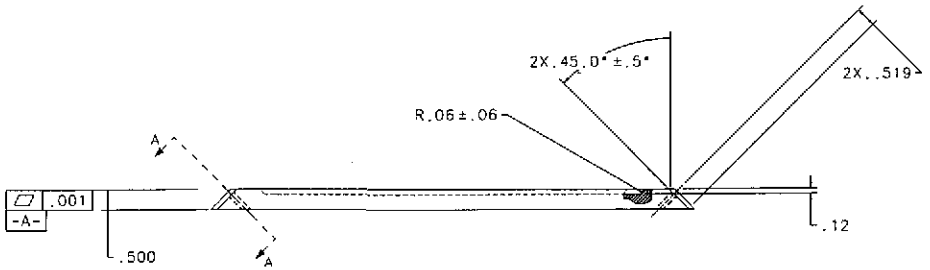
H  
G  
F  
E  
D  
C  
B  
A



SECTION A-A  
SCALE 1:1



VIEW J  
SCALE 2:1



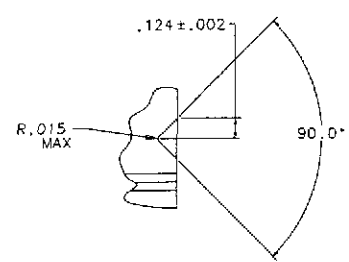
BASE PLATE  
MATERIAL: 6061-T6 ALUM

DATE	BY	CHKD	APPROVALS	DATE	BY	CHKD
11-14-68	J. M. H.			1-20-69	J. M. H.	

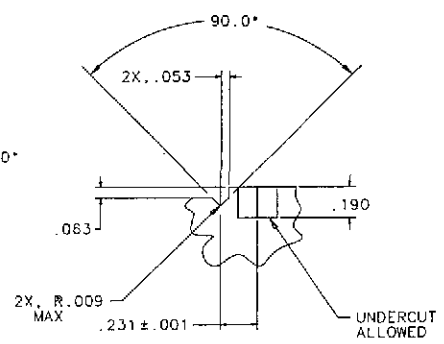
CALIFORNIA INSTITUTE OF TECHNOLOGY  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
 GUIDE ROD FIXTURE  
 BEAMSPLITTER OPTICS  
 D970550  
 2 OF 3

1 2 3 4 5 6 7 8

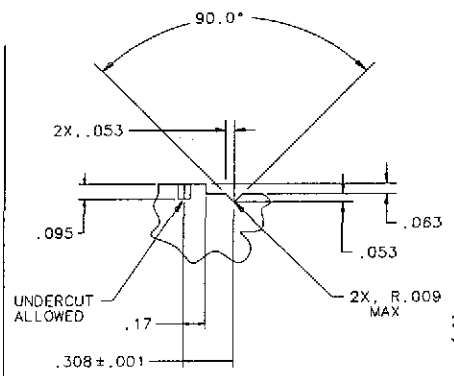
REV	DATE	DRAWN BY	CHECKED	DES	DESCRIPTION
1					EB80220/INITIAL RELEASE
2					CHANGE/ADD HOLE IN BLOCK



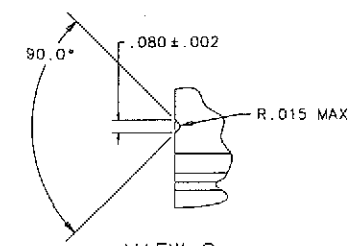
VIEW C  
SCALE 4:1



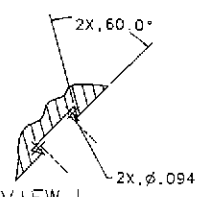
VIEW D  
SCALE 4:1



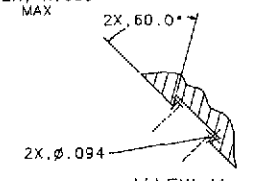
VIEW H  
SCALE 4:1



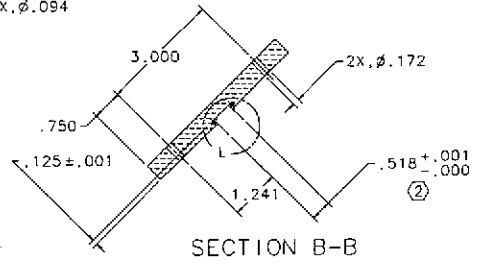
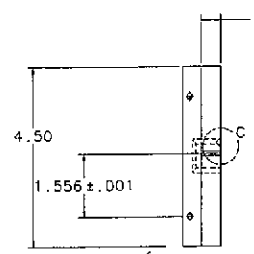
VIEW G  
SCALE 4:1



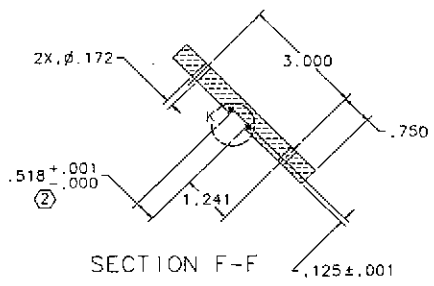
VIEW L  
SCALE 2:1



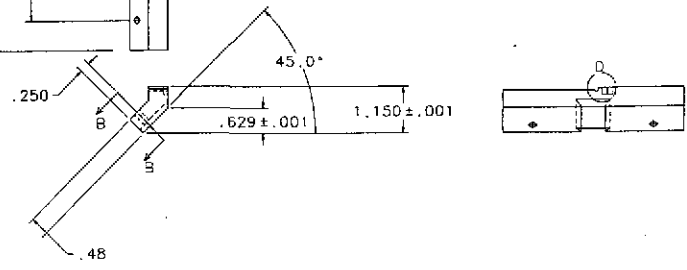
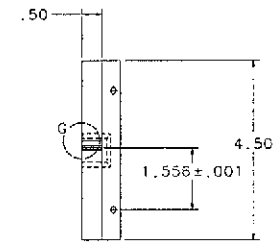
VIEW K  
SCALE 2:1



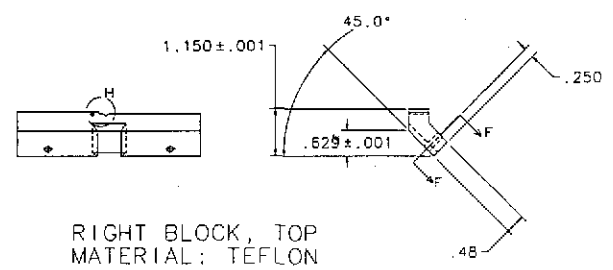
SECTION B-B



SECTION F-F



LEFT BLOCK, TOP  
MATERIAL: TEFLON



RIGHT BLOCK, TOP  
MATERIAL: TEFLON

APPROVALS	DATE	1.160	CALIFORNIA INST. OF TECHNOLOGY
DESIGNED BY			
DRAWN BY			
CHECKED BY			
APPROVED BY			
GUIDE ROD FIXTURE BEAMSPLITTER OPTICS			
PART NO. 0970556			
REV. 1.01			