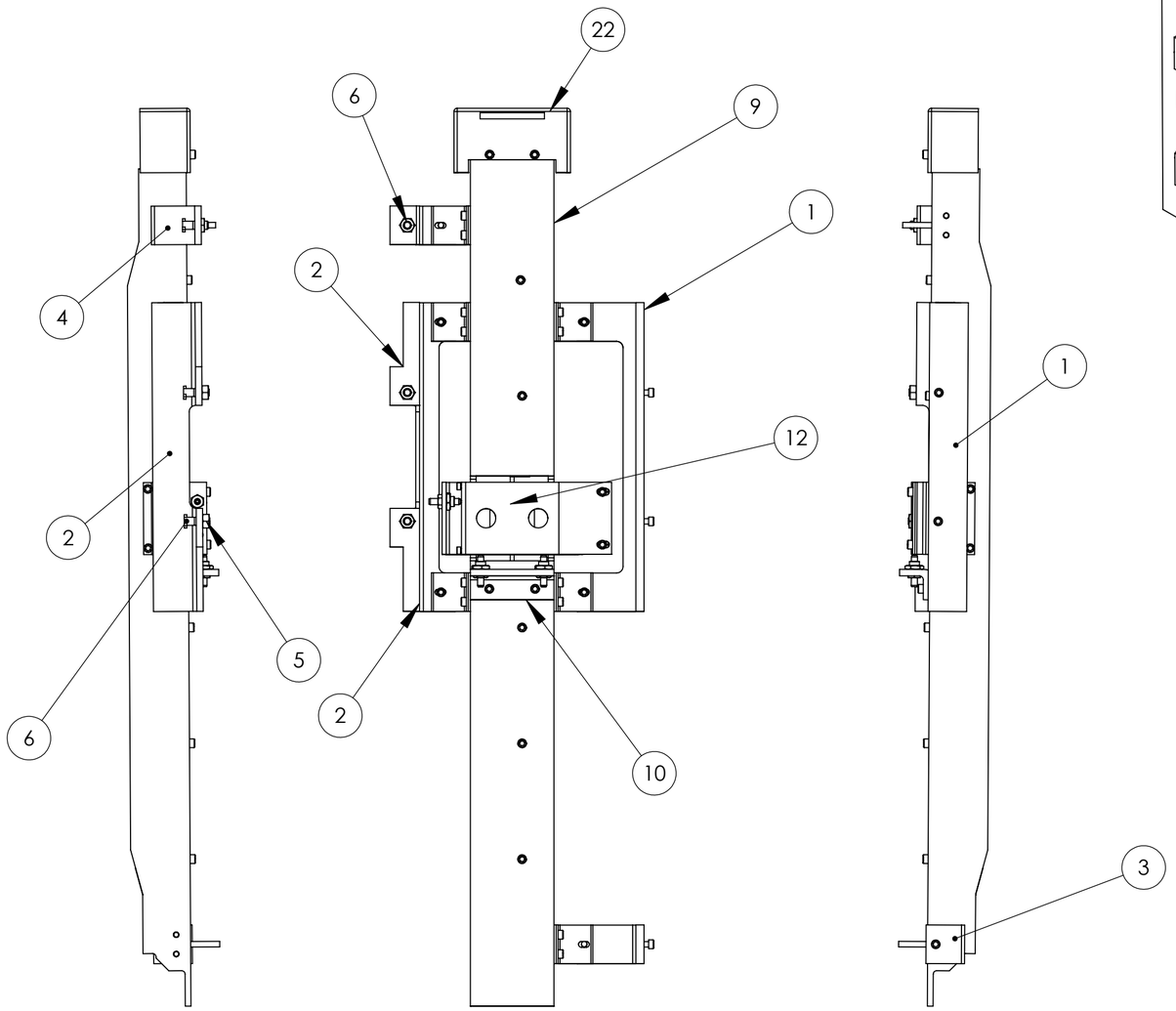
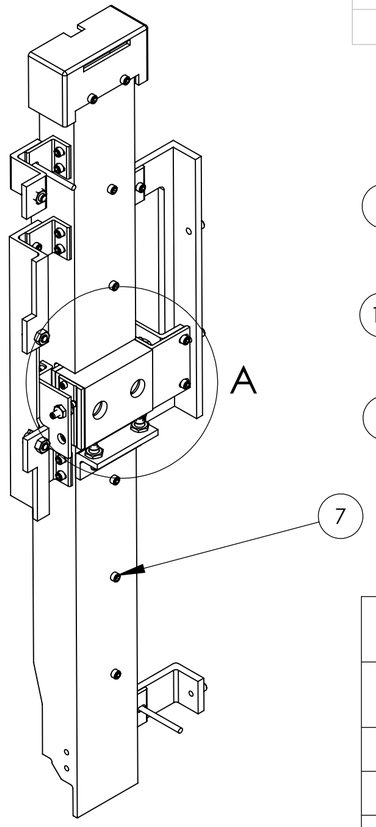
NOTES CONTINUED:

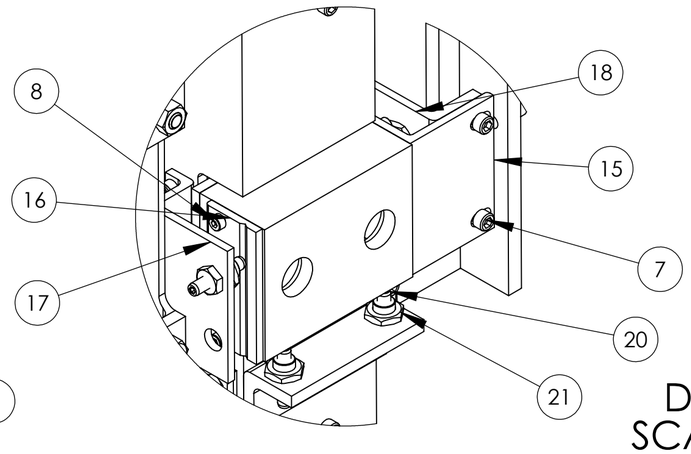
⑤ SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER AND REVISION ON NOTED SURFACE FOLLOWED ON THE NEXT LINE BY A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE .07" HIGH CHARACTERS.
EXAMPLE: DXXXXXXX-VY, S/N 001.
A VIBRATORY TOOL MAY BE USED.

⑥ MACHINE ALL SURFACES.

REV.	DATE	DCN #	DRAWING TREE #







DETAIL A
SCALE 2.5 : 4

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ	SPARE	TOTAL
21		PHOTODIODE HOUSING	6061 Alloy	2		2
20	D10XXXXX	FIBRE GUARD GUIDE ROD	201 Annealed Stainless Steel (SS)	2		2
19	D1001660	FIBRE GUARD TOP CAP	ALUMINIUM	2		2
18	THORLABS F19SS100	BALL ENDED ADJUSTOR SCREW		8		8
17	THORLABS N100L5	ULTRA FINE ADJUSTER NUT AND LOCK NUT		8		8
16	D0902510	ANGLE SECTION 2	ALUMINIUM	2		2
15	D0902509	ANGLE SECTION 1	ALUMINIUM	2		2
14	D0902515	ANGLE SECTION 7	ALUMINIUM	2		2
13	D0902514	ANGLE SECTION 6	ALUMINIUM	2		2
12	D0902508	FIBRE GUARD SEPERATOR	ALUMINIUM	2		2
11	D0902512	ANGLE SECTION 4	ALUMINIUM	12		12
10	D0902511	ANGLE SECTION 3	ALUMINIUM	2		2
9	D0902507	FIBRE GUARD MAIN BODY	ALUMINIUM	2		2
8		M3 SKT HEAD CAP SCREW	SSTL	4		4
7	-	SCREW, SOCKET HEAD CAP, #8-32 UNC-2A X 0.3125 LONG	Ag-PLATED 300 SSTL	72		72
6	D901941	TEE BOLT 1/4-20 UNC	Ag PLATED SSTL	6		6
5		1/4-20 UNC HEX NUT	SSTL	6		6
4	D0902519	ANGLE SECTION 11	ALUMINIUM	2		2
3	D0902518	ANGLE SECTION 10	ALUMINIUM	2		2
2	D0902517	ANGLE SECTION 9	ALUMINIUM	2		2
1	D0902516	ANGLE SECTION 8	ALUMINIUM	2		2

PARTS LIST

DIMENSIONS ARE IN MM

GENERAL TOLERANCE ± 0.1
ANGULAR ± 0.2°

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

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2. REMOVE ALL SHARP EDGES, R.02 MIN.
3. DO NOT SCALE FROM DRAWING.
4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

MATERIAL N/A

FINISH N/A µm

LIGO **CALIFORNIA INSTITUTE OF TECHNOLOGY**
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM ADVANCED LIGO

SUB-SYSTEM SUS

NEXT ASSY

PART NAME

DESIGNER	L CUNNINGHAM	28/06/10
DRAFTER	L CUNNINGHAM	01/07/10
CHECKER		
APPROVAL		

SIZE C | **DWG. NO.** D0902505 | **REV.** v2

SCALE: 1:3.5 | **PROJECTION:** | SHEET 1 OF 3

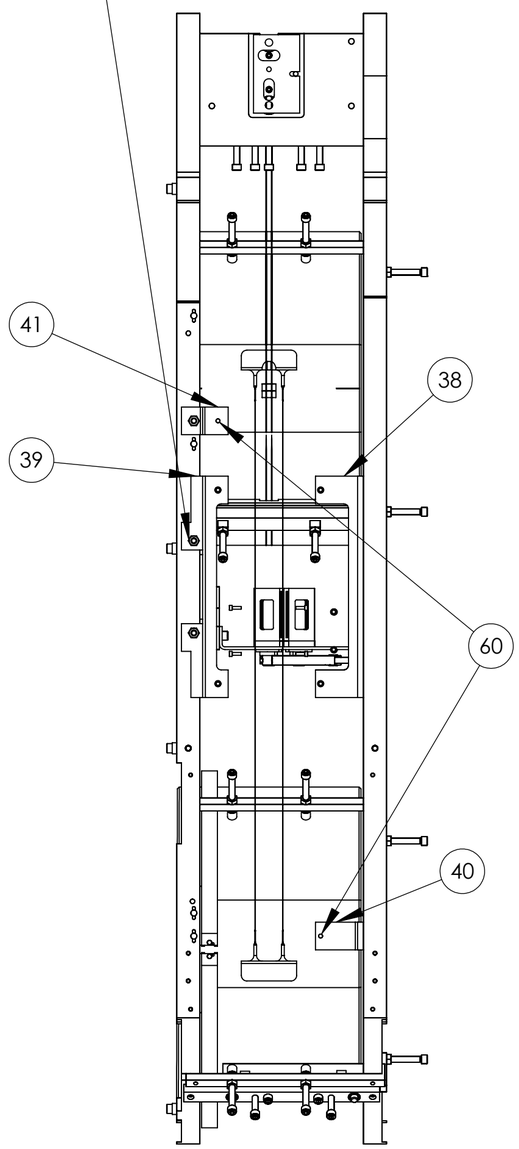
NOTES CONTINUED:

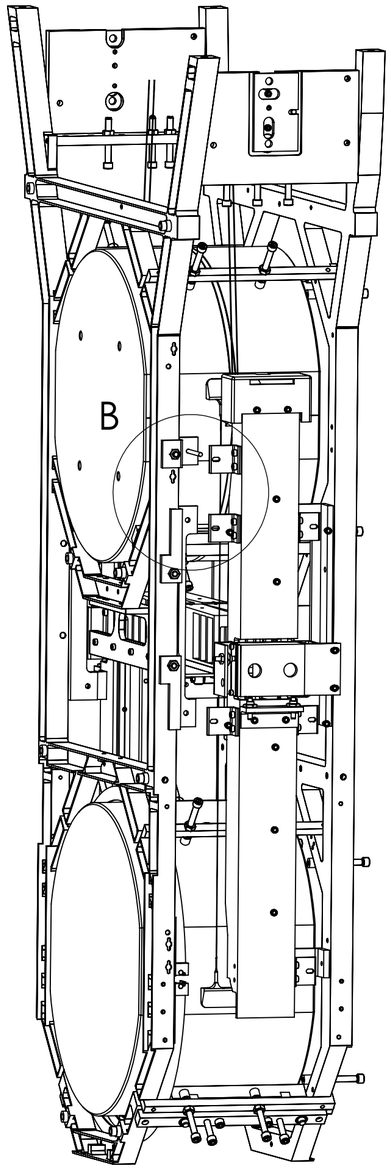
⑤ SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER AND REVISION ON NOTED SURFACE FOLLOWED ON THE NEXT LINE BY A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE .07" HIGH CHARACTERS.
EXAMPLE: DXXXXXXX-VY, S/N 001.
A VIBRATORY TOOL MAY BE USED.

⑥ MACHINE ALL SURFACES.

REV.	DATE	DCN #	DRAWING TREE #

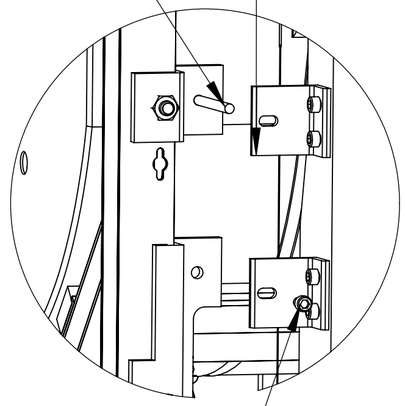
BRACKETS D0902516, D0902517, D0902518, D0902519 FASTENED TO STRUCTURE. GUIDE RAILS LOCATED IN OPPOSITE CORNERS





GUIDE ROD D1001830 LOCATED IN TOP AND BOTTOM BRACKET

HOLE IN D0902512 SLIDES ALONG D1001830

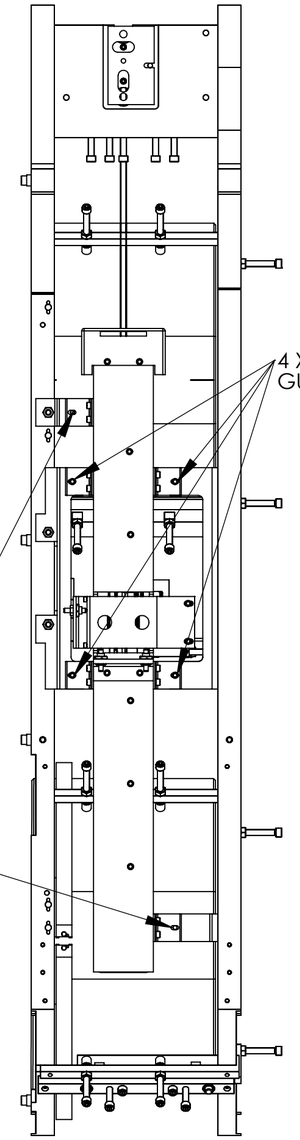


#8-32 SOCKET HEAD CAP SCREWS FASTEN GUARD IN PLACE

DETAIL B
SCALE 1 : 2

4 X #8-32 ATTACH GUARD TO STRUCTURE

GUIDE RAILS REMOVED FINAL #8-32 SCREWS IN PLACE



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN MM

TOLERANCES:
.X ± .2
.XX ± .02

ANGULAR ± 0.2°

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3. DO NOT SCALE FROM DRAWING.
4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

MATERIAL

FINISH µm

NEXT ASSY

LIGO — CALIFORNIA INSTITUTE OF TECHNOLOGY, MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM aLIGO

SUB-SYSTEM SUS

PART NAME FIBRE GUARD INSTALL DIRECTIONS

DESIGNER		
DRAFTER	L CUNNINGHAM	01/07/10
CHECKER		
APPROVAL		

SIZE c

DWG. NO. D0902505

REV. v2

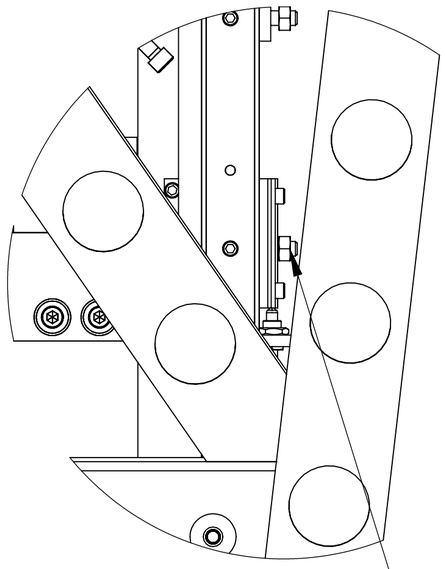
SCALE: 1:5 **PROJECTION:** SHEET 2 OF 3

NOTES CONTINUED:

5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER AND REVISION ON NOTED SURFACE FOLLOWED ON THE NEXT LINE BY A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE .07" HIGH CHARACTERS. EXAMPLE: DXXXXXXX-VY, S/N 001. A VIBRATORY TOOL MAY BE USED.

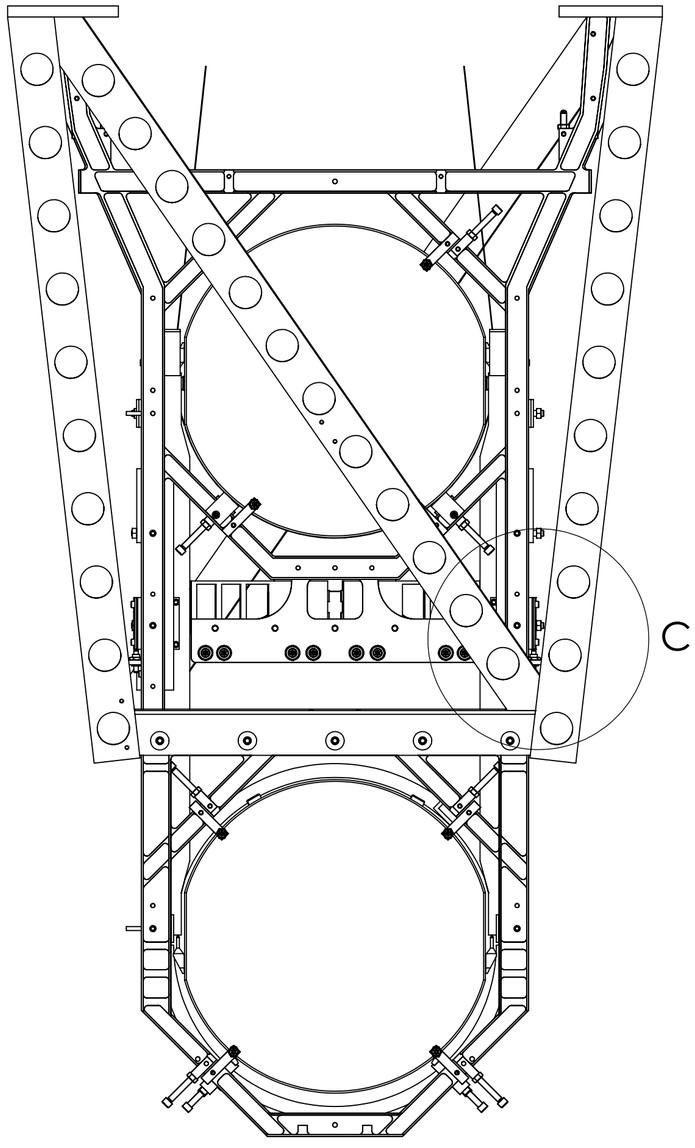
6. MACHINE ALL SURFACES.

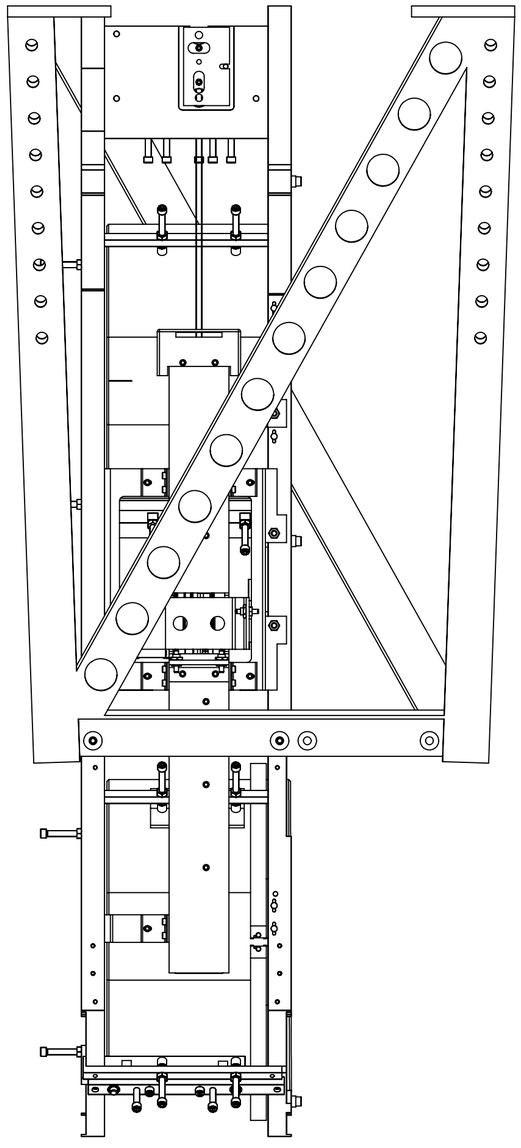
REV.	DATE	DCN #	DRAWING TREE #



CLEARANCE BETWEEN GUARD AND SLEEVE

DETAIL C
SCALE 1 : 2





NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)									
DIMENSIONS ARE IN MM TOLERANCES: .X ± .2 .XX ± .02 ANGULAR ± 0.2°	1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME: FIBRE GUARD INSTALL DIRECTIONS				
	MATERIAL	FINISH: µm	SYSTEM: aLIGO	SUB-SYSTEM: SUS	DESIGNER			SIZE: C	DWG. NO.: D0902505	REV.: v2
			NEXT ASSY		DRAFTER	L CUNNINGHAM	01/07/10			
					CHECKER					
					APPROVAL			SCALE: 1:5	PROJECTION:	SHEET 3 OF 3