NOTES CONTINUED:

5 INTERFACE TO ASSEMBLY D1102088

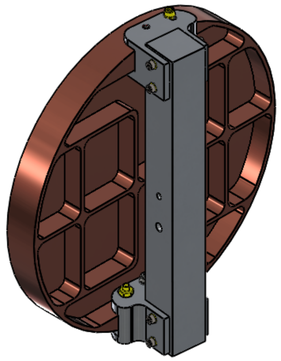
6 #6-32 TORQUE TO 10 in-lb, MAX.

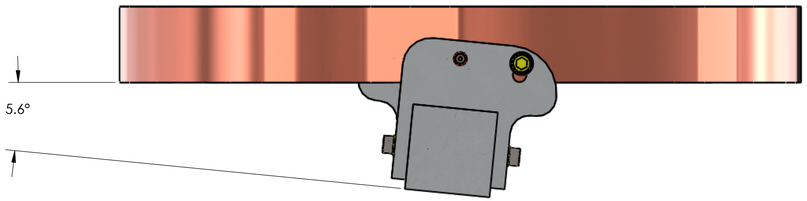
7 #8-32 TORQUE TO 20 in-lb, MAX.

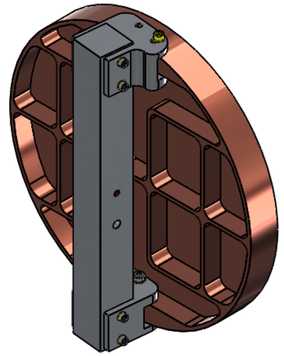
8 ITEMS 11 THRU 15 ARE NOT USED IN ULTRA HIGH VACUUM

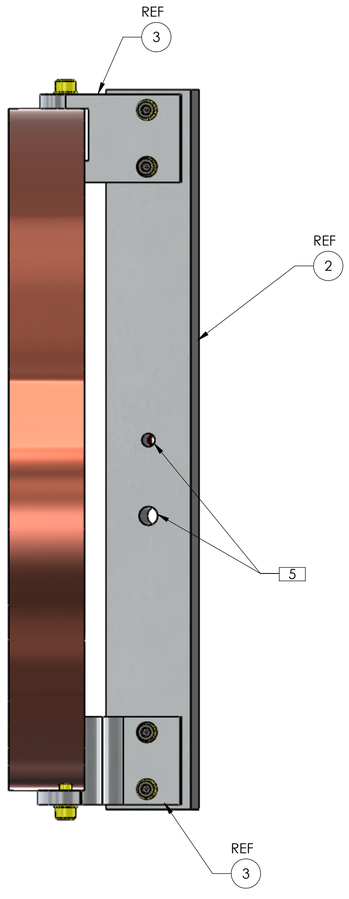
TYPE	CONFIGURATION DESCRIPTION
-01	DEFAULT ASSEMBLY (SHEETS 1 & 2)
-02	MIRROR CLEANING, PRE-ASSEMBLY (SHEET 3)

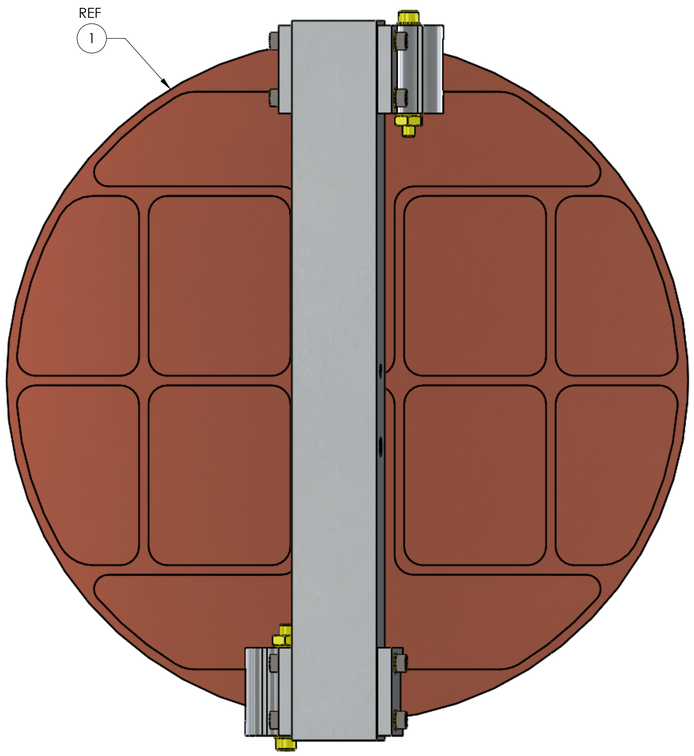
REV.	DATE	DCN #	DRAWING TREE #
v1	08-MAR-12	E1101043-v1	E1101044-v1
v2	21-MAY-12	E1101043-v2	E1101044-v2











TYPE -01

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	Default /REQ	SPARE	TOTAL
15	D1200756	TCS H1-L1 SM1 SPLASH COVER	TEFLON PFA 440-HP OR 450	1	0	1
14	WF-06	FLAT WASHER, #6, .143ID X .270 OD X .106 THK, UC-COMPONENTS	18-8 SS	2	2	4
6 13	C-614-N	SHCS 6-32 X .875 LONG, UC-COMPONENTS	18-8 SS	2	2	4
12	D1200754	HANDLE GUSSET, aLIGO TCS STEERING MIRROR 1, H1-L1	Al 6061	2	0	2
11	D1200755	HANDLE, aLIGO TCS STEERING MIRROR 1, H1-L1	316 SSTL	1	0	1
10	WFV-10	WASHER, VENTED FLAT, #10, .195 ID X .35 4OD X .032 TK.UC-COMPONENTS	18-8 SS	2	1	3
9	WF-06-A	WASHER, FLAT, #6, .143ID X .267OD X .016TK. UC-COMPONENTS	300 SS, Au PLATED	8	2	10
6 8	C-607	SSHC, 6-32 X UNC-3A X 7/16 Lg SS. UC-COMPONENTS	Alloy Steel (SS)	8	2	10
7	WF-08	WASHER, FLAT, #8,.169ID X .304OD X .032TK, UC-COMPONENTS	300 SSTL	6	2	8
7 6	N-832-A	HEX NUT, #8-32	300 SSTL, Au PLATED	4	2	6
7 5	SHCV-4423	SSHD, #8-32UNC-3A X 1 LG, VENTED. UC-COMPONENTS	303 SSTL	2	1	3
7 4	C-824-NA	SCREW, SOCKET HEAD CAP, #8-32 UNC-2A X 1.5LG. UC-COMPONENTS	300 SSTL	2	2	4
3	D1101294	H1-L1 STEER M1 AZ BRACKET	6061 Alloy	2	0	0
2	D1101295	H1-L1 STEER M1 SUPPORT	6061 Alloy	1	0	0
1	D1101014	aLIGO TCS CO2P STEERING MIRROR 1, H1-L1	Copper	1	0	0

PARTS LIST

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES

TOLERANCES:
.XX ± .01
.XXX ± .005

ANGULAR ± 1.0°

1. INTERPRET DRAWING PER ASME Y14.5-1994.
2. REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS. ROUND ALL EDGES APPROXIMATELY R.02 FOR SHEET METAL PARTS.
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 µinch

NEXT ASSY D1101013

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM ADVANCED LIGO

SUB-SYSTEM AOS

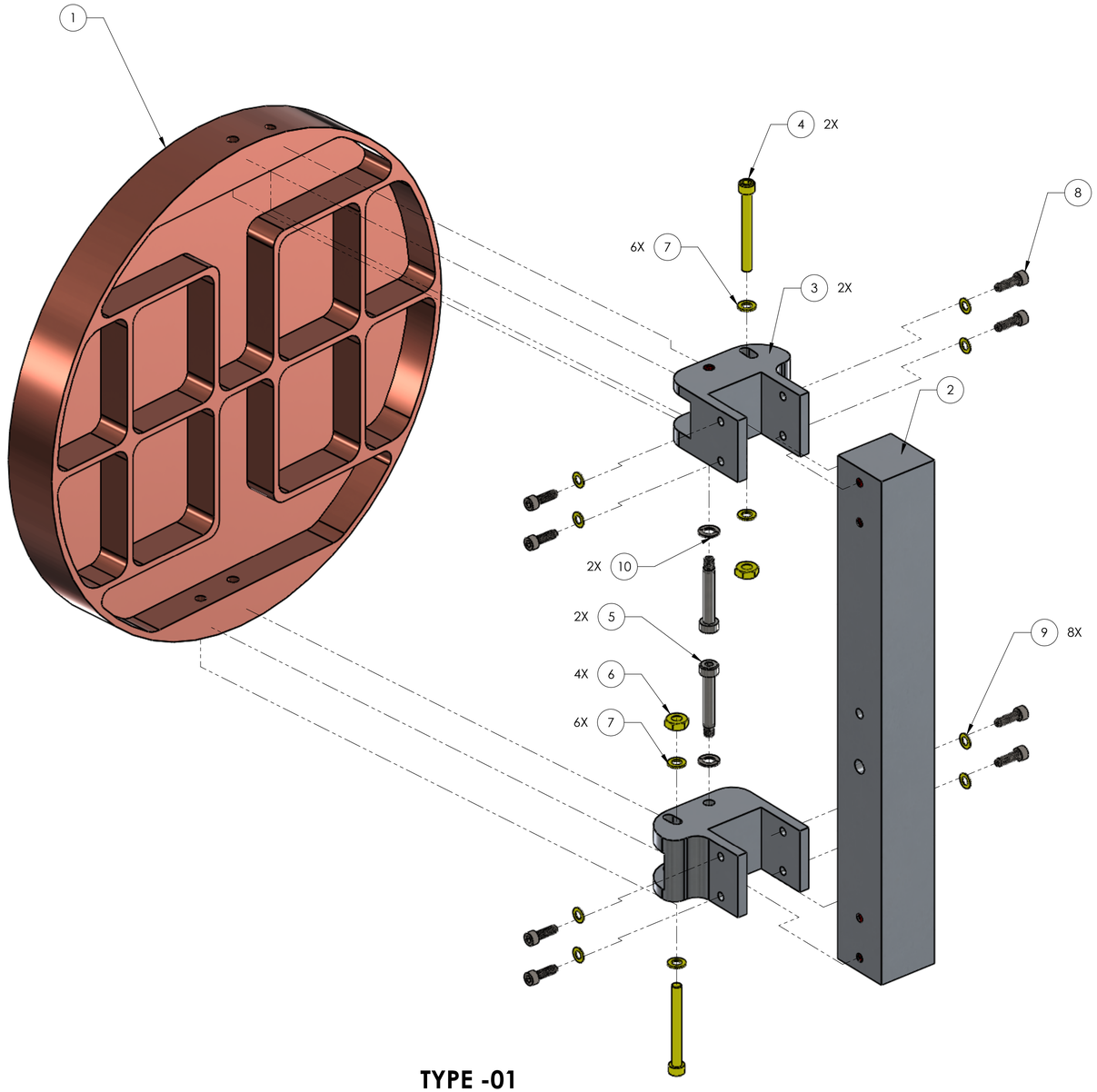
PART NAME aLIGO TCS MIRROR ASSY

DESIGNER	M.JACOBSON	18-OCT-2011
DRAFTER	A.COLE	19-OCT-2011
CHECKER	M. JACOBSON	21-MAY-2012
APPROVAL	T. VO	22-MAY-2012

SIZE D **DWG. NO.** D1102029 **REV.** v2

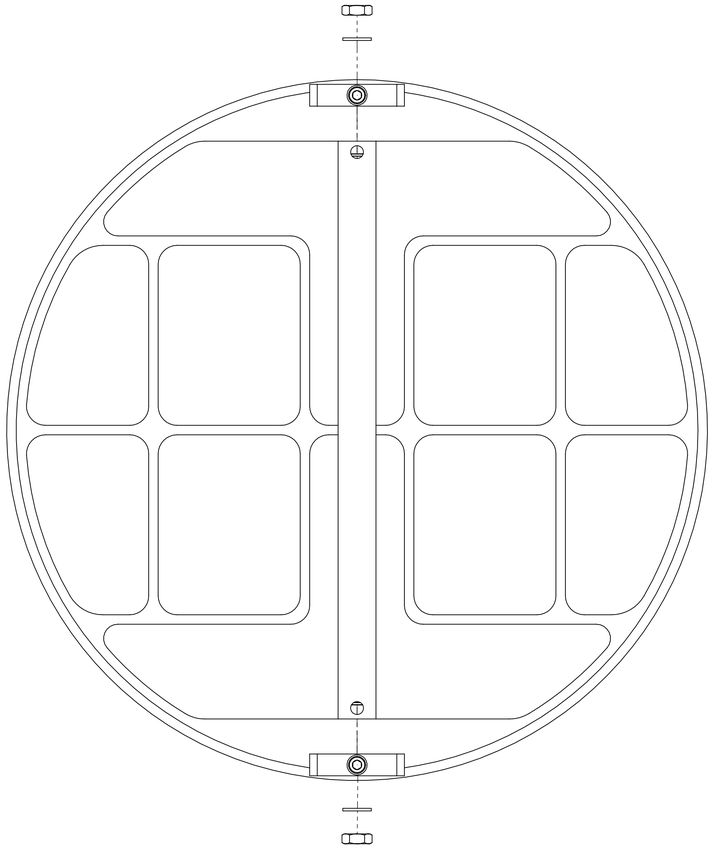
SCALE: 1:8 **PROJECTION:** SHEET 1 OF 3

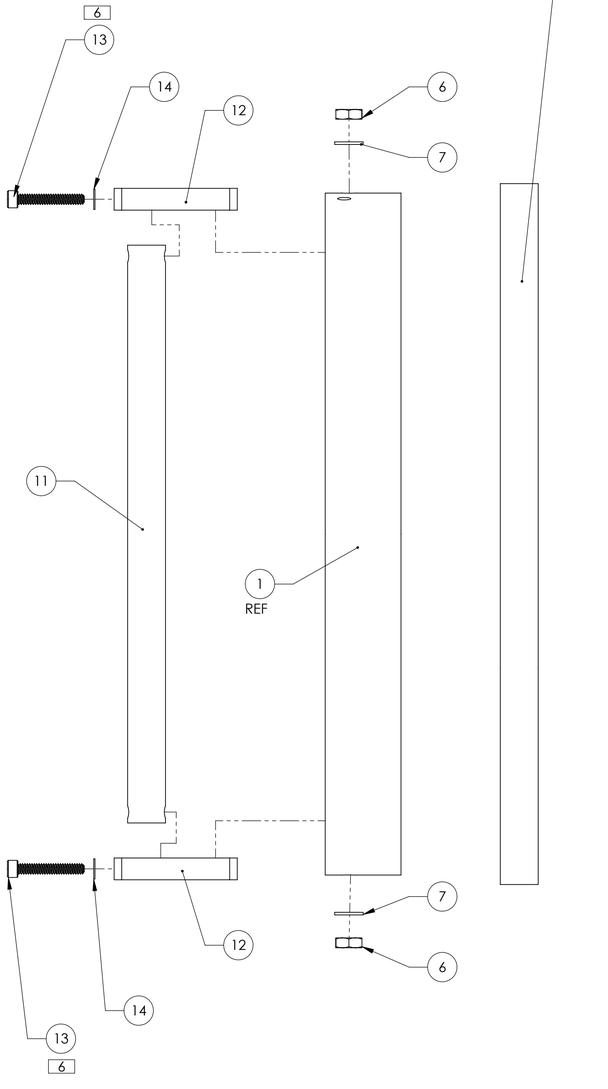
D1102029_aLIGO,TCS, MIRROR ASSY, PART PDM REV. X-026, DRAWING PDM REV. X-015

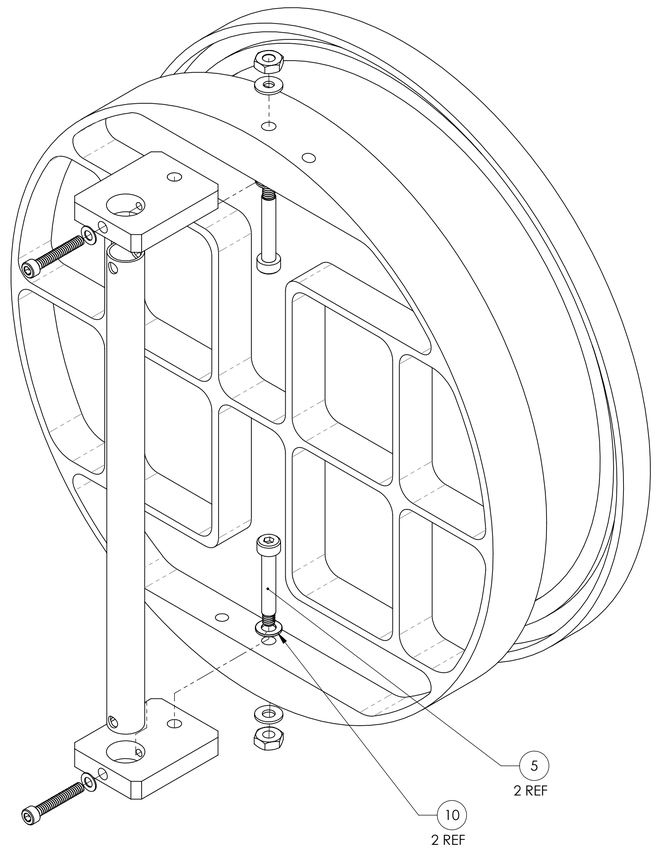


TYPE -01

LIGO	CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE D	DWG. NO. D1102029	REV. v2
SCALE: 1:8	PROJECTION:	SHEET 2 OF 3







TYPE -02

LIGO	CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE: D	DWG. NO.: D1102029	REV.: v2
SCALE: 1:8	PROJECTION:	SHEET 3 OF 3

D1102029_aLIGO.TCS_MIRROR ASSY, PART PDM REV= X-X.036, DRAWING PDM REV= X-X.015