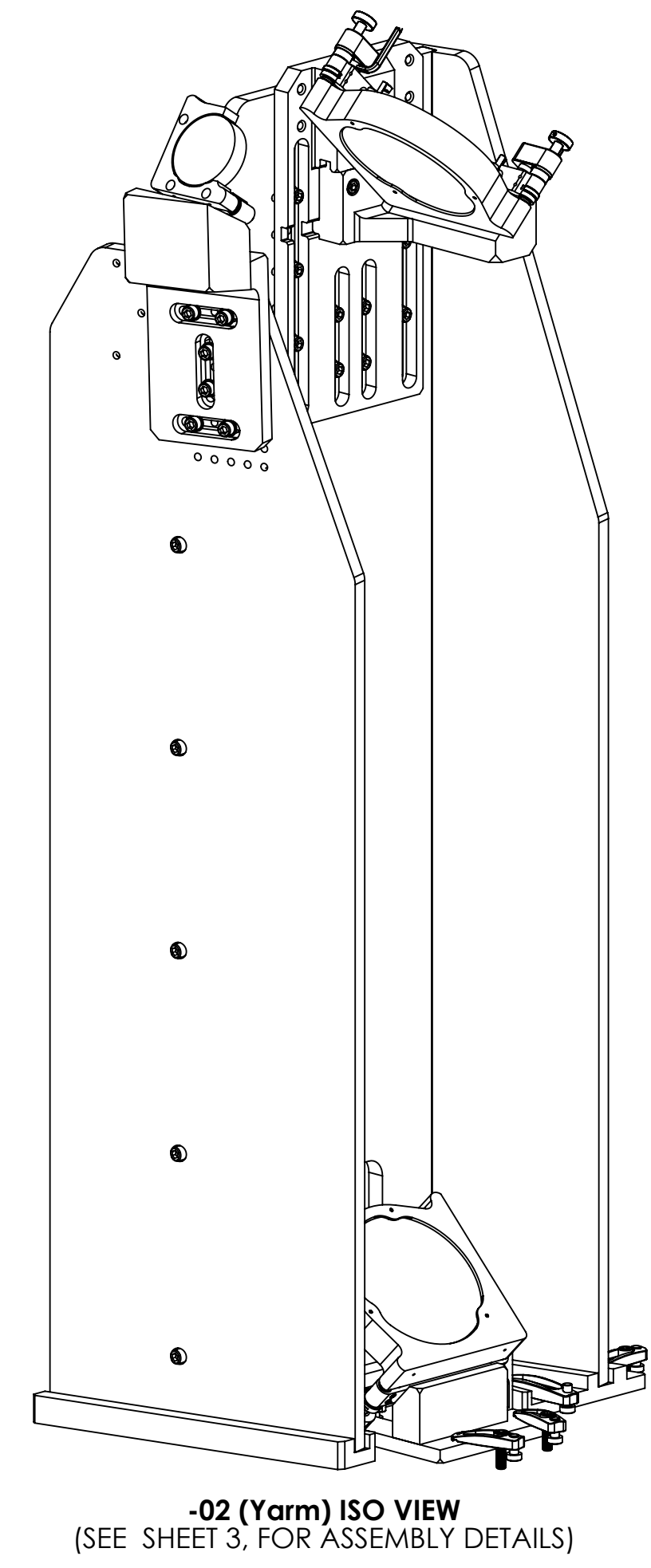
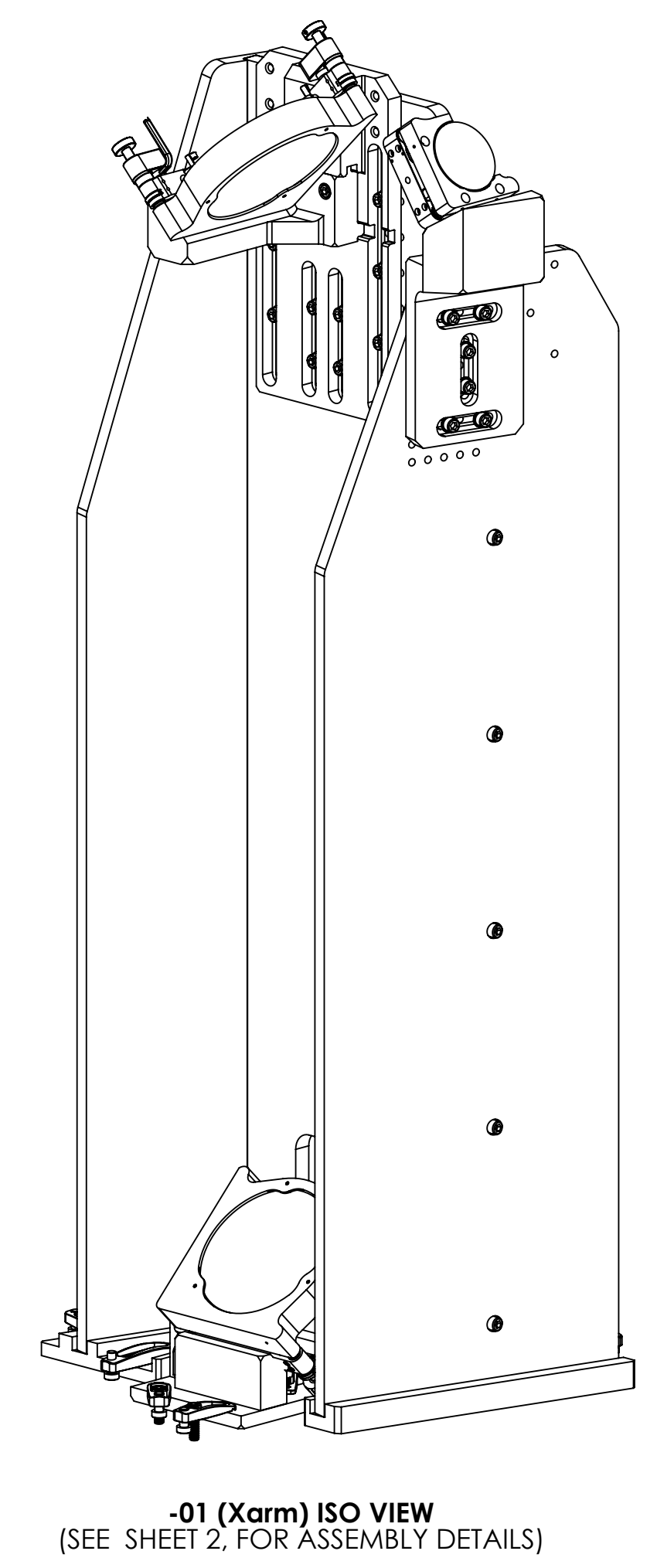
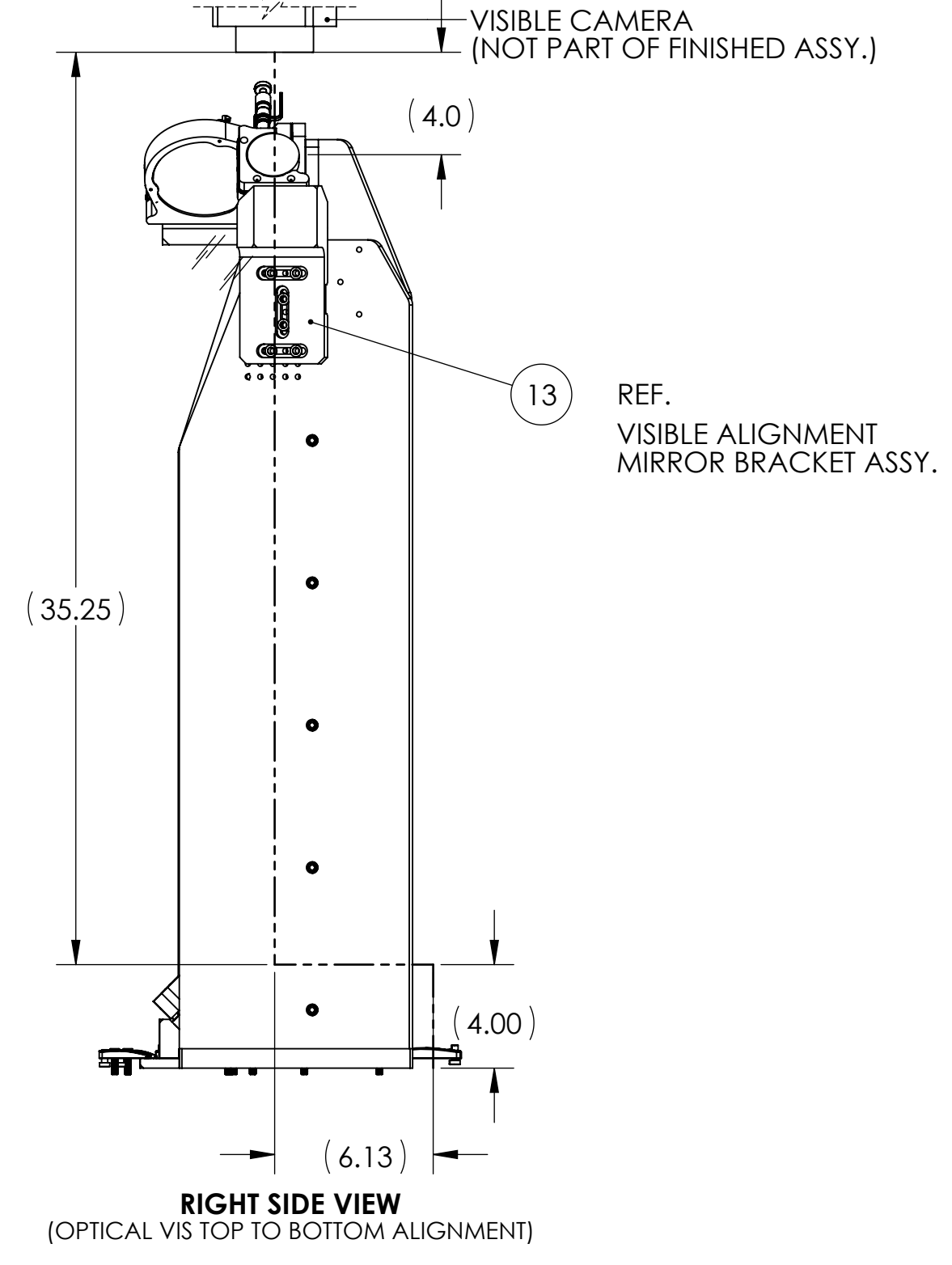
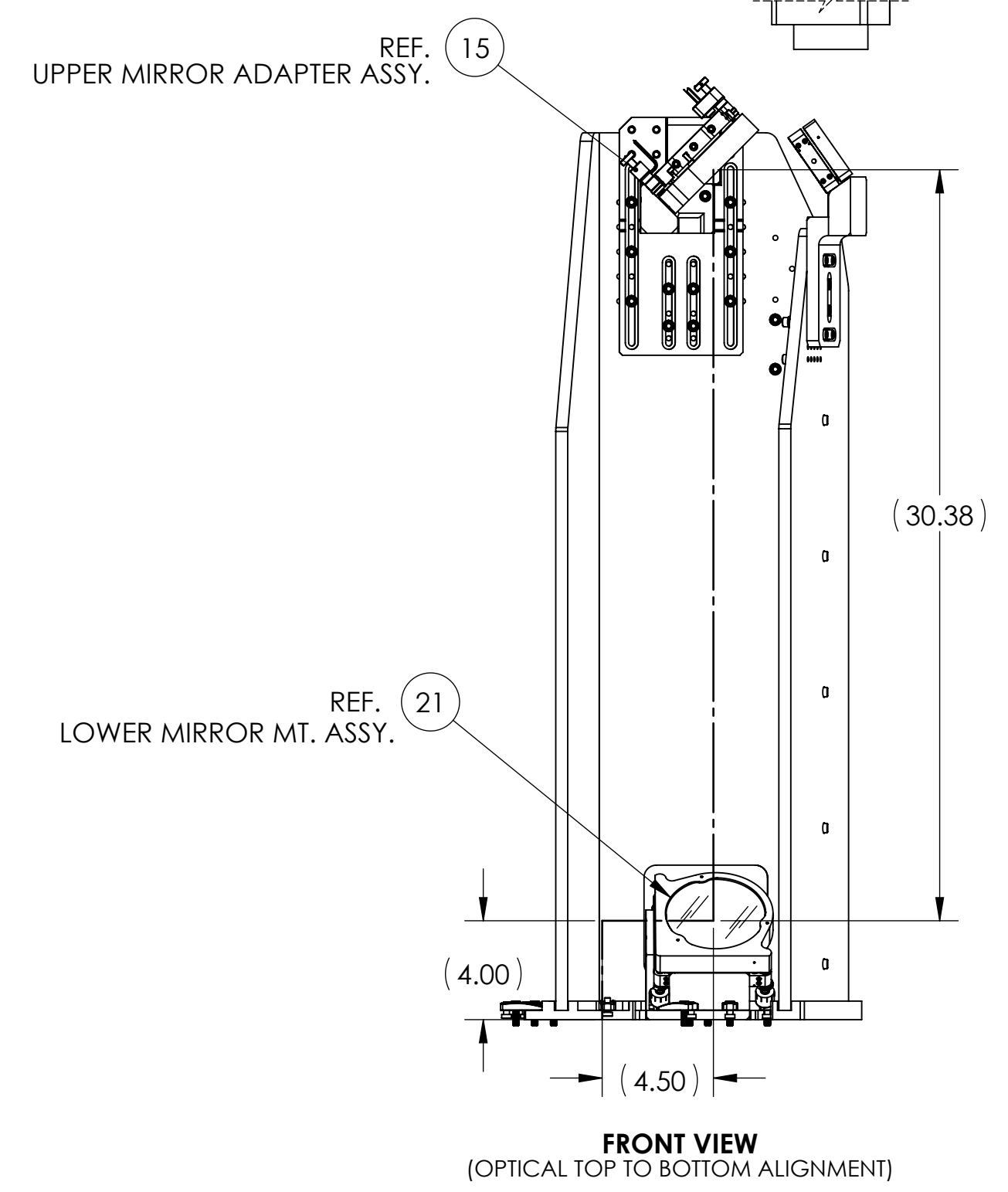


REV.	DATE	DCN #	DRAWING TREE #
v1	09 NOV 2012	E1200891-x0	E1201007-v1
v2	09 OCT 2013	E1300729-x0	E1201007-v3
v3	18 MAR 2016	E1600078-x0	-

TYPE	DESCRIPTION
-01	X-arm
-02	Y-arm



25	D1201319-02	BASE PLATE, aLIGO TCS CO2P TABLE PERISCOPE, Yarm	6061 Alloy	-	1
24	BC-5	NEWPORT BASE CLAMP	MULTI	8	8
23	BC-6	Adjustable-Height Base Clamp, Long, 1/4-20 Tapped Holes. NEWPORT	MULTI	4	4
22	D1201400-02	LOWER MIRROR ASSY, aLIGO TCS CO2P PERISCOPE, H1-L1 (Yarm)	N/A	-	1
21	D1201400-01	LOWER MIRROR ASSY, aLIGO TCS CO2P PERISCOPE, H1-L1 (Xarm)	N/A	1	-
20	C-808-N UC COMPONENTS OR EQ.	SCREW, SOCKET HEAD CAP, #8-32 UNC-2A X 0.5 LONG	300 SSSL	3	3
19	C-2016-N UC COMPONENTS OR EQ.	SCREW, SOCKET HEAD CAP, 1/4-20 UNC-2A X 1 LONG	300 SSSL	32	31
18	C-2010-N UC COMPONENTS OR EQ.	SCREW, SOCKET HEAD CAP, 1/4-20 UNC-2A X 0.625 LONG	300 SSSL	26	27
17	WF-25 UC COMPONENTS OR EQ.	WASHER, FLAT, 1/4	300 SSSL	28	29
16	D1201402-02	ALIGO, TCS, CO2P PERISCOPE, UPPER MIRROR ADAPTER ASSY.(Yarm)	N/A	-	1
15	D1201402-01	ALIGO, TCS, CO2P PERISCOPE, UPPER MIRROR ADAPTER ASSY. (Xarm)	N/A	1	-
14	D1201401-02	ALIGO, TCS, CO2P PERISCOPE, VISIBLE ALIGNMENT MIRROR BRACKET ASSY.(Yarm)	N/A	-	1
13	D1201401-01	ALIGO, TCS, CO2P PERISCOPE, VISIBLE ALIGNMENT MIRROR BRACKET ASSY. (Xarm)	N/A	1	-
12	D1201371-02	BACK SIDE WALL STRUT, CO2P PERISCOPE (Yarm)	6061 Alloy	-	1
11	D1201371-01	BACK SIDE WALL STRUT, CO2P PERISCOPE (Xarm)	6061 Alloy	1	-
10	D1201370-02	FRONT SIDE WALL STRUT, CO2P PERISCOPE (Yarm)	6061 Alloy	-	1
9	D1201370-01	FRONT SIDE WALL STRUT, CO2P PERISCOPE (Xarm)	6061 Alloy	1	-
8	D1201319-01	BASE PLATE, aLIGO TCS CO2P TABLE PERISCOPE (Xarm)	6061 Alloy	1	-
7	D1201308-02	LEFT SIDE WALL, aLIGO TCS CO2P TABLE PERISCOPE (Yarm)	6061 Alloy	-	1
6	D1201308-01	LEFT SIDE WALL, aLIGO TCS CO2P TABLE PERISCOPE (Xarm)	6061 Alloy	1	-
5	D1201307-02	RIGHT SIDE WALL, aLIGO TCS CO2P TABLE PERISCOPE (Yarm)	6061 Alloy	-	1
4	D1201307-01	RIGHT SIDE WALL, aLIGO TCS CO2P TABLE PERISCOPE (Xarm)	6061 Alloy	1	-
3	D1201306	FRONT PLATE, aLIGO TCS CO2P TABLE PERISCOPE	6061 Alloy	1	1
2	D1600105	aLIGO, TCS CO2P, PERISCOPE MIRROR MT. ADAPTER (Yarm)	6061 Alloy	-	1
1	D1600106	aLIGO, TCS CO2P, PERISCOPE MIRROR MT. ADAPTER (Xarm)	6061 Alloy	1	-

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	-01 (Xarm) QTY.	-02 (Yarm) QTY.
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NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)



**PART NAME**  
PERISCOPE ASSY. IN AIR, aLIGO TCS CO2P, H1-L1

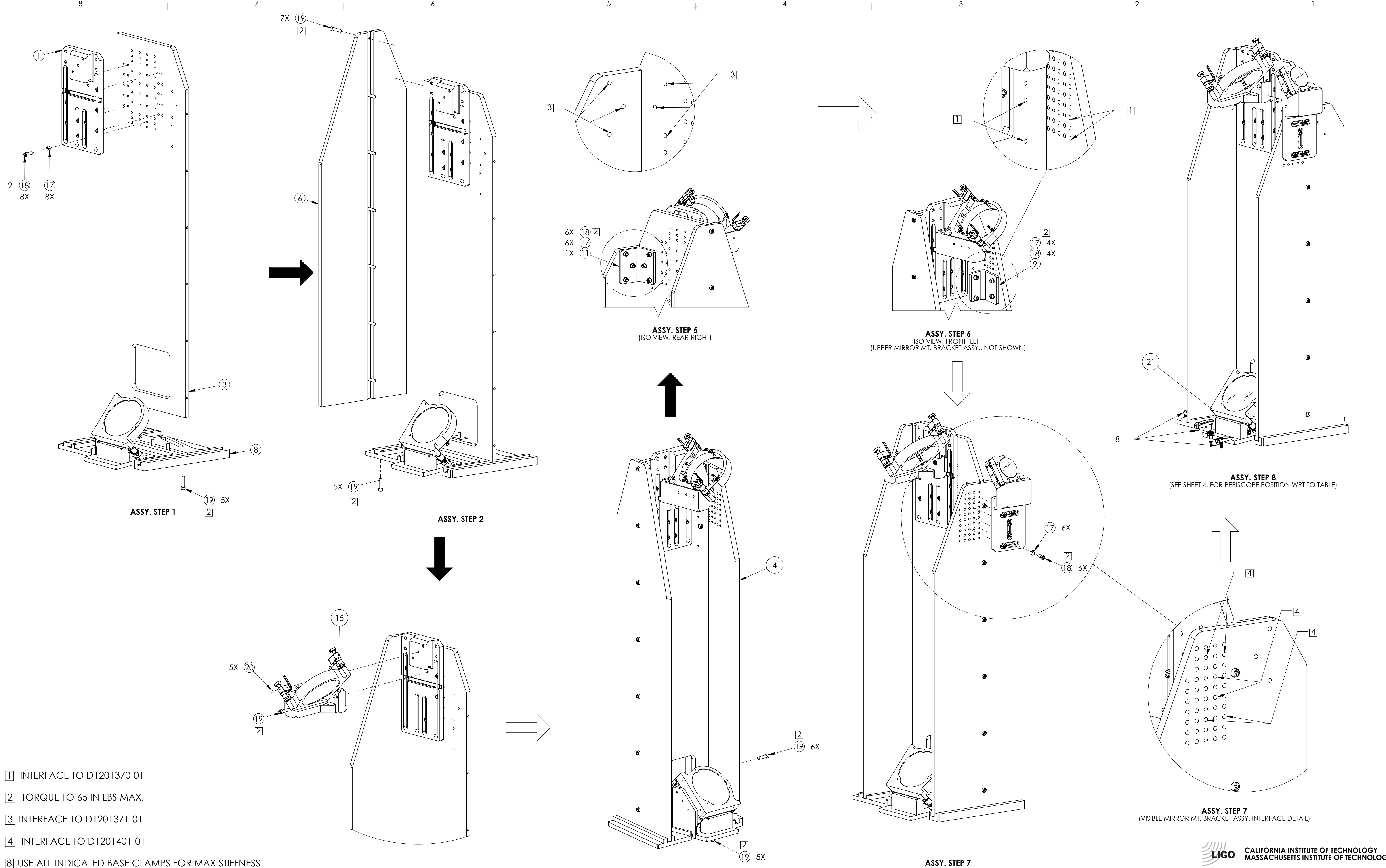
**SYSTEM** ADVANCED LIGO  
**SUB-SYSTEM** AOS  
**NEXT ASSY** D1000634

DESIGNER	DATE	SIZE	DWG. NO.	REV.
M. JACOBSON	26 JUL 2012	D	D1200953	v3
E. SANCHEZ	09 NOV 2012			
M. JACOBSON	09 OCT 2013			
A. HEPTONSTALL	07 OCT 2013			

MATERIAL	FINISH
N/A	N/A μinch

SEE SHEET 4, FOR PERISCOPE ASSY LOCATION / ORIENTATIONS WRT OPTICS TABLE

D1200953\_PERISCOPE ASSY. IN AIR, aLIGO TCS CO2P, H1-L1, PART PDM REV. X-154, DRAWING PDM REV. X-020



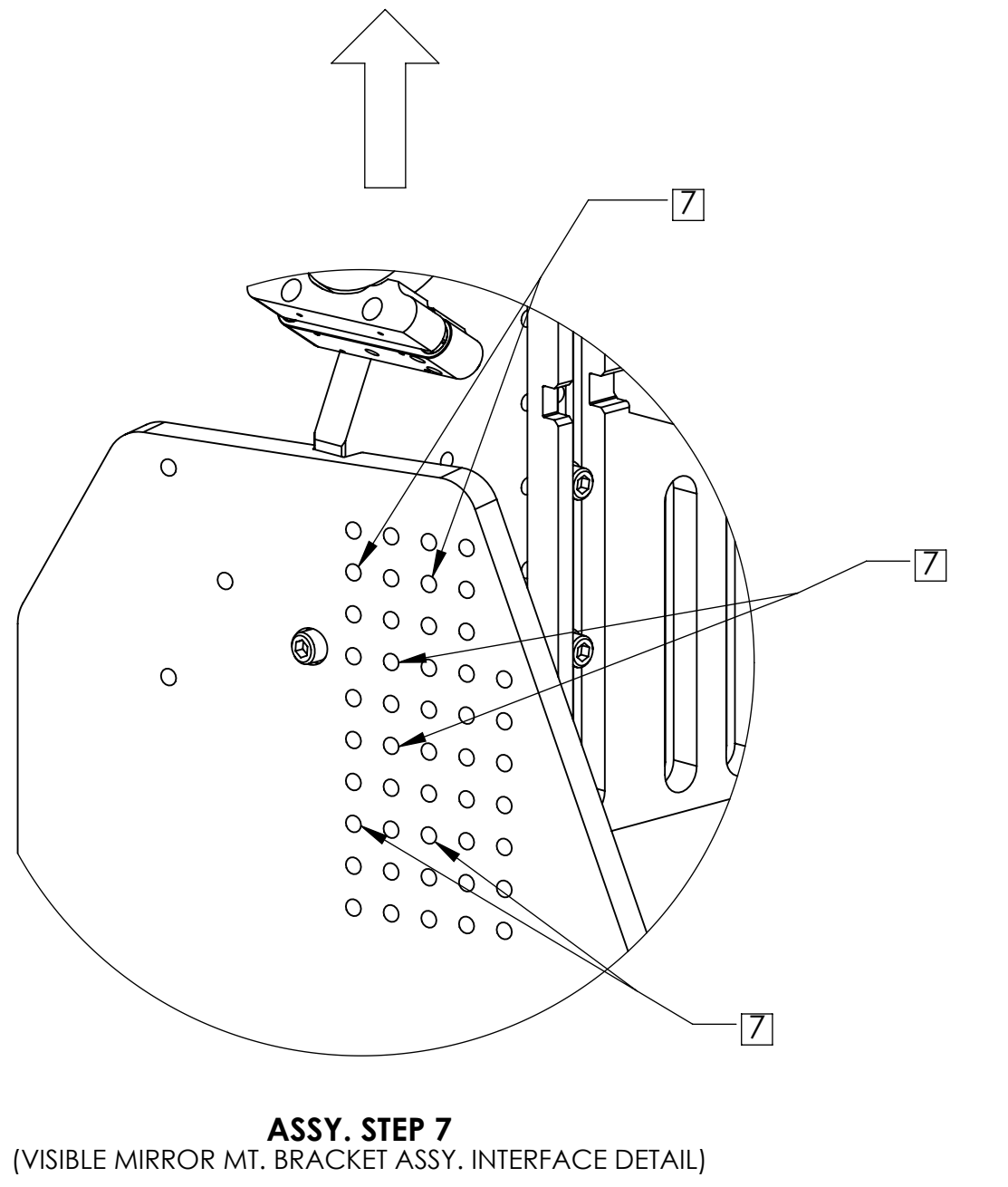
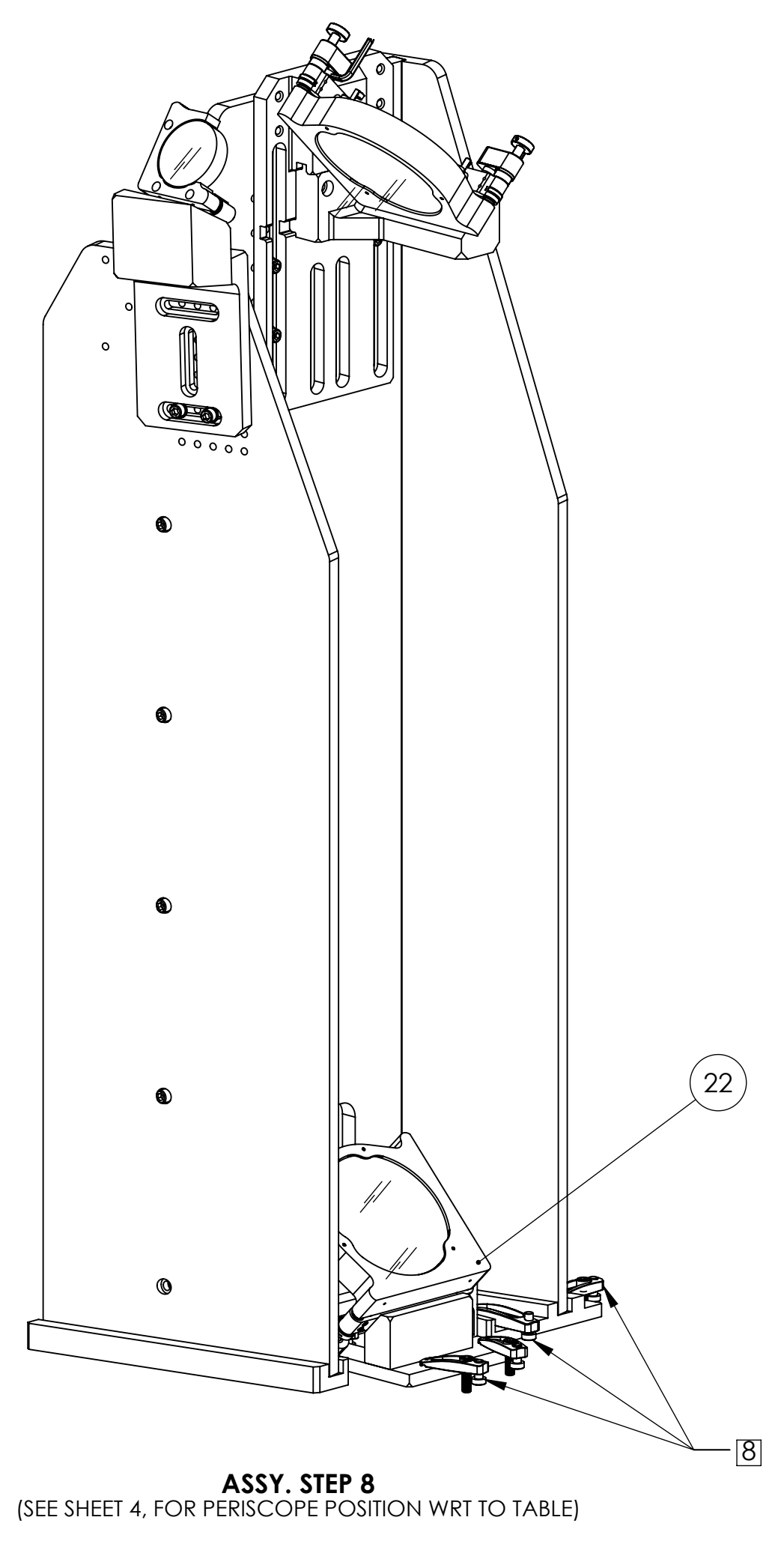
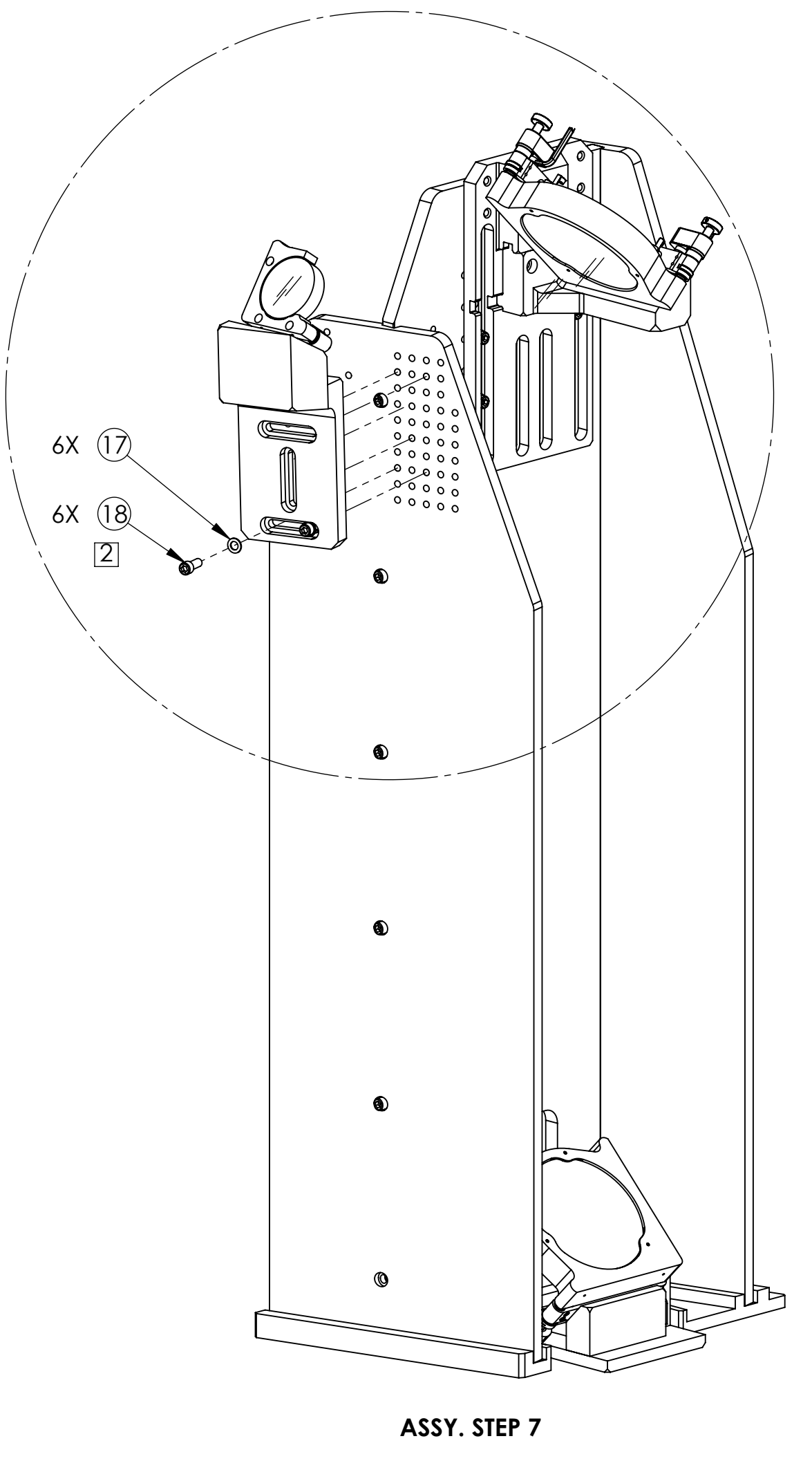
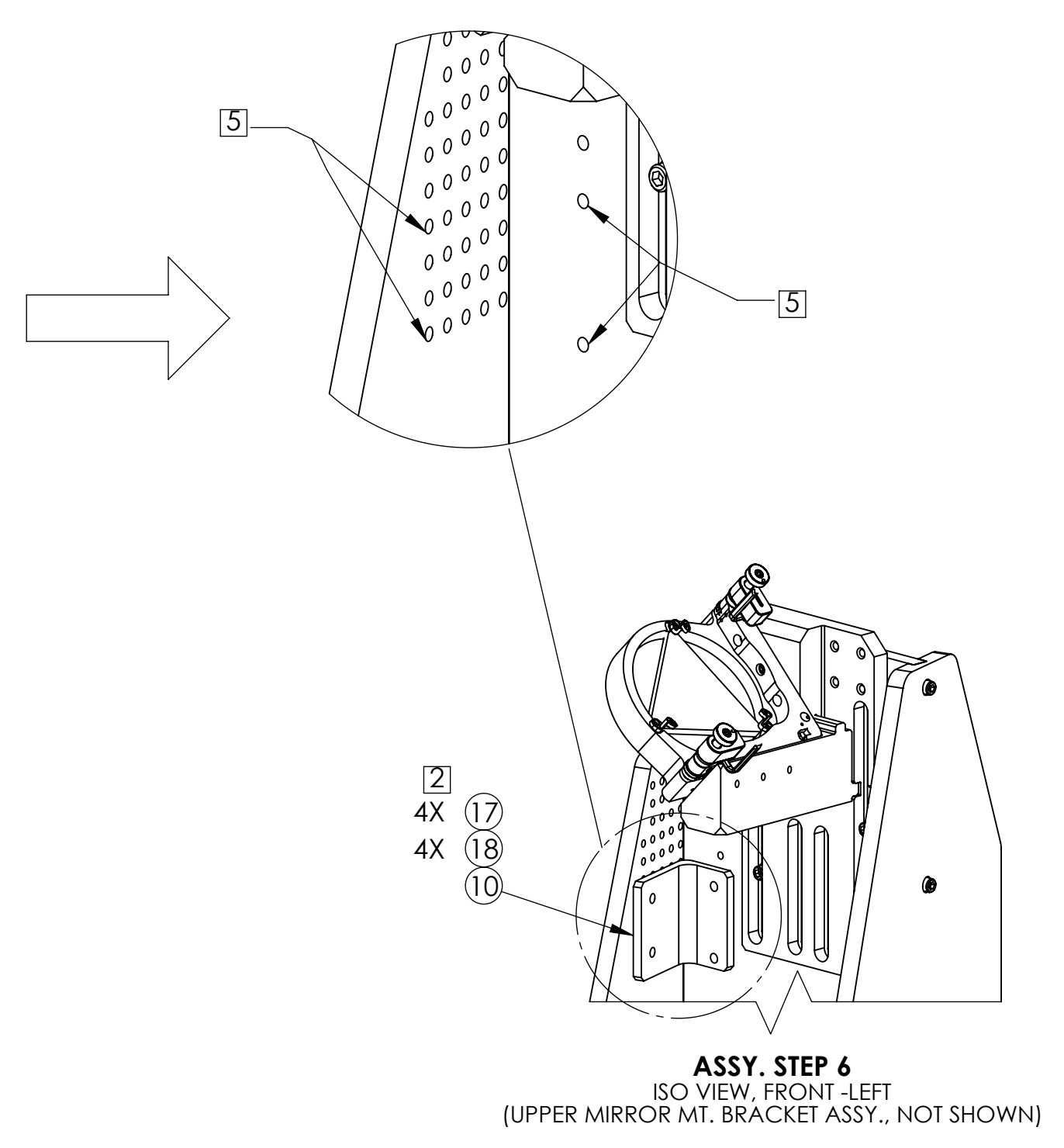
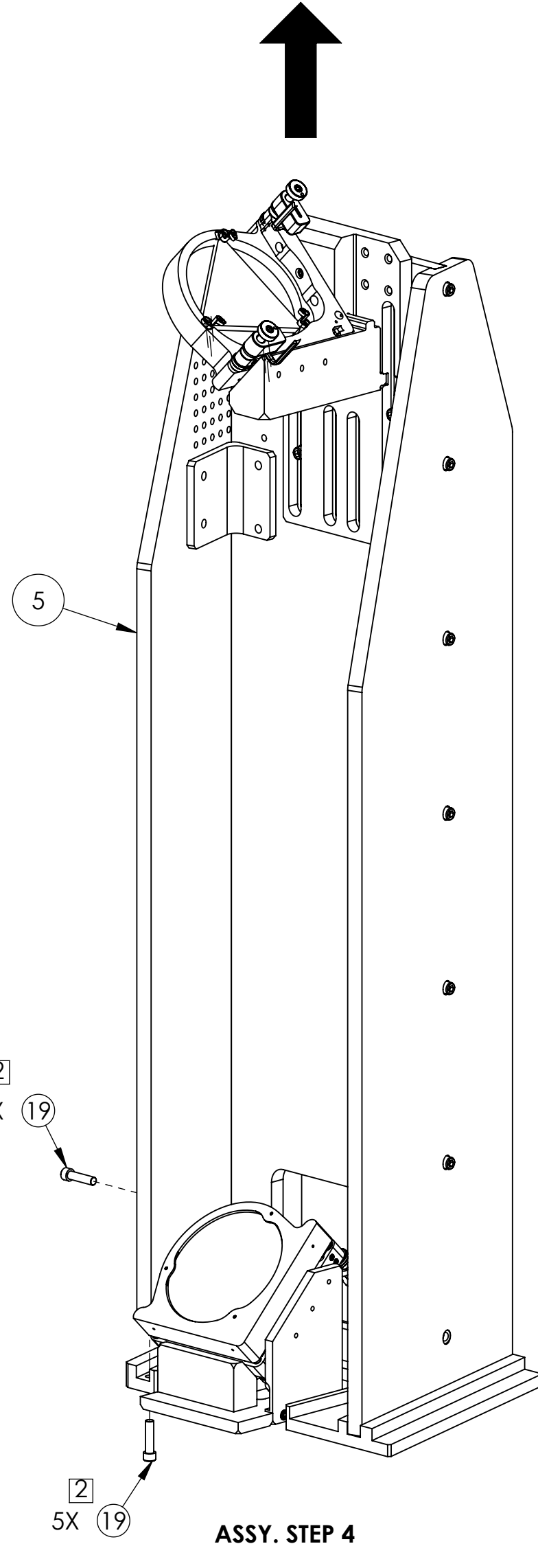
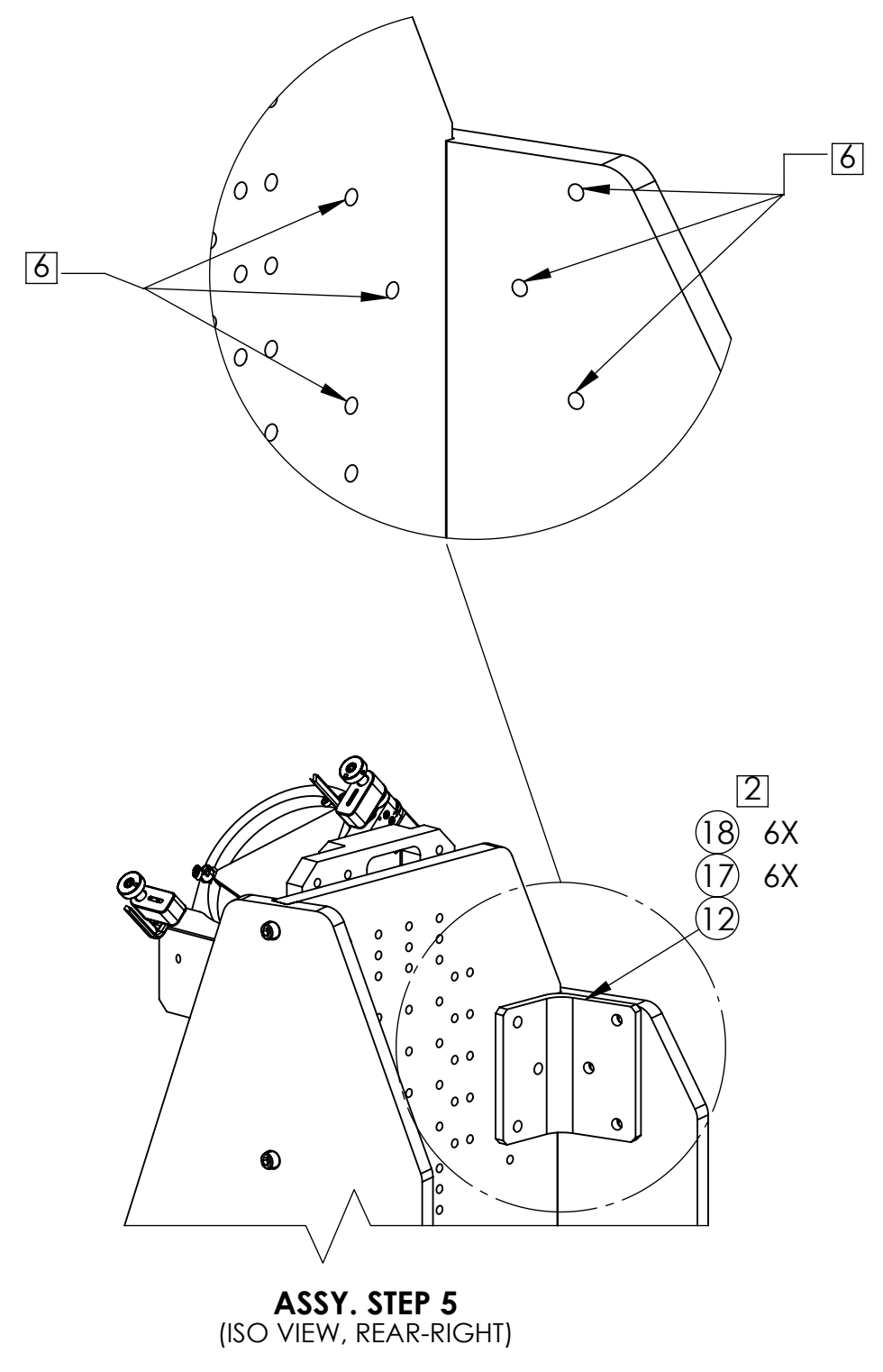
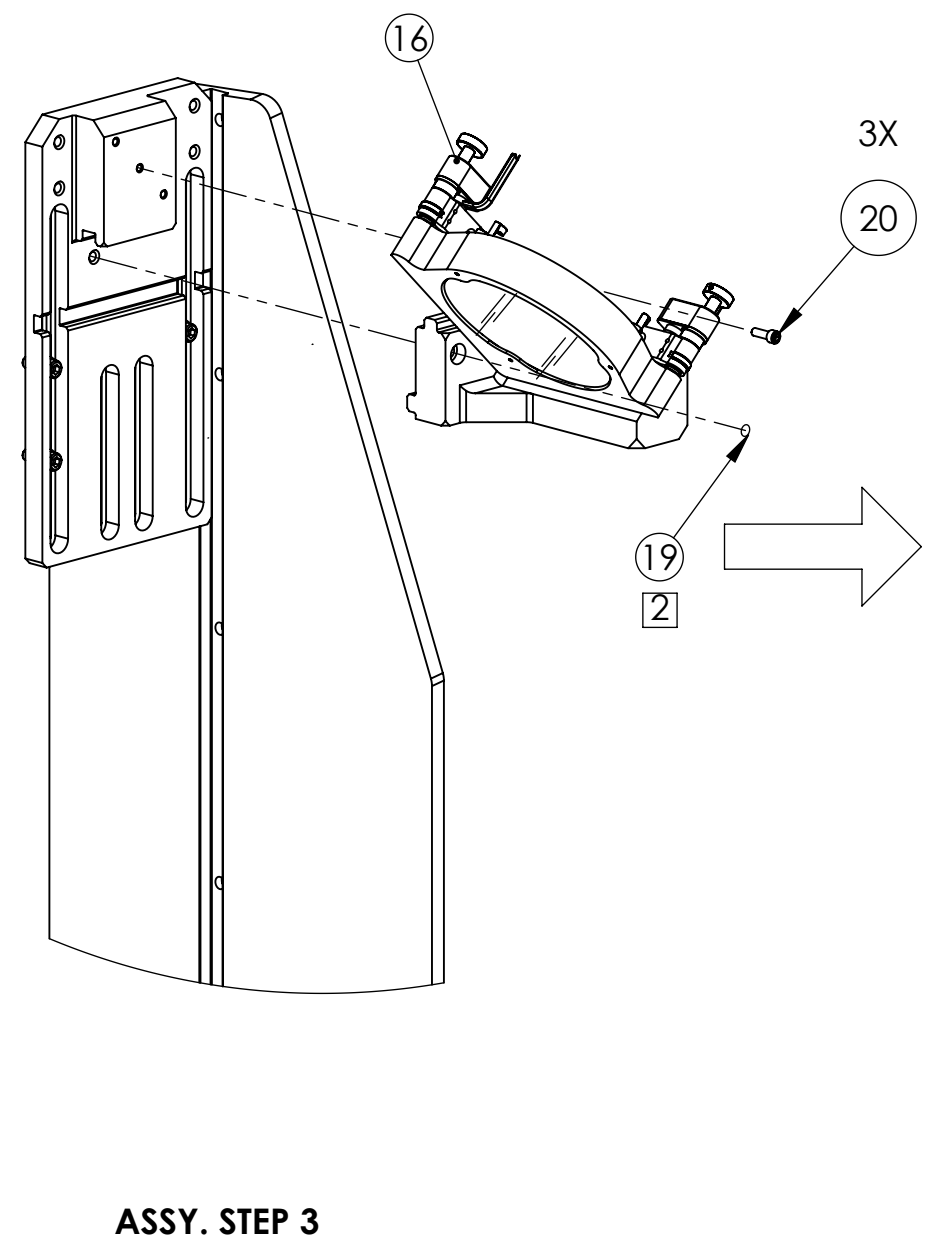
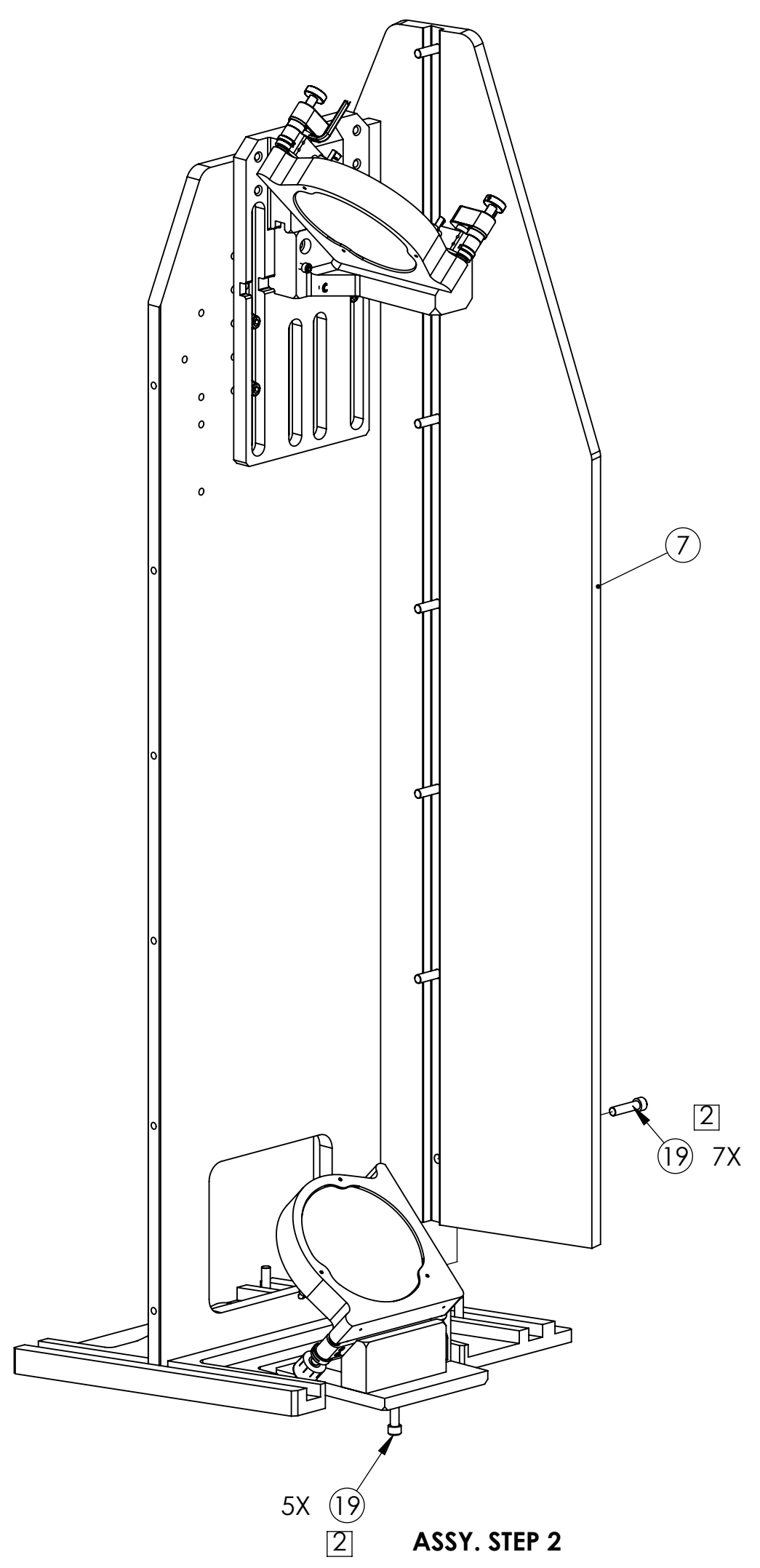
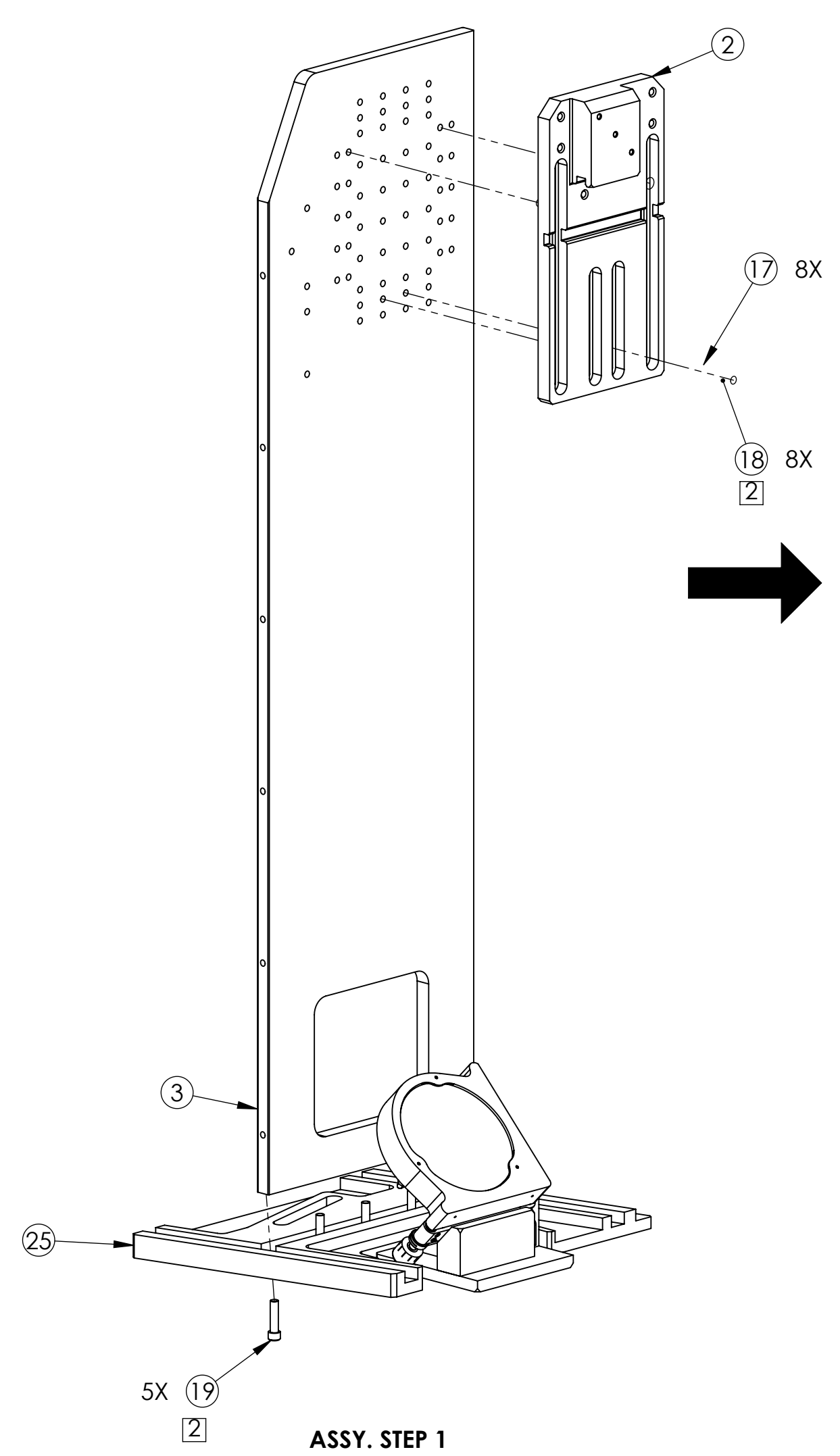
- 1 INTERFACE TO D1201370-01
- 2 TORQUE TO 65 IN-LBS MAX.
- 3 INTERFACE TO D1201371-01
- 4 INTERFACE TO D1201401-01
- 8 USE ALL INDICATED BASE CLAMPS FOR MAX STIFFNESS

**-01 (X-ARM)**

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

SIZE	DWG. NO.	REV.
D	D1200953	v3
SCALE: 1:4	PROJECTION:	SHEET 2 OF 4

D1200953\_PERISCOPE ASSY. IN AIR. d1200953.DWG. H1-L1 PART FROM REV. X-154. DRAWING FDM REV. X-020



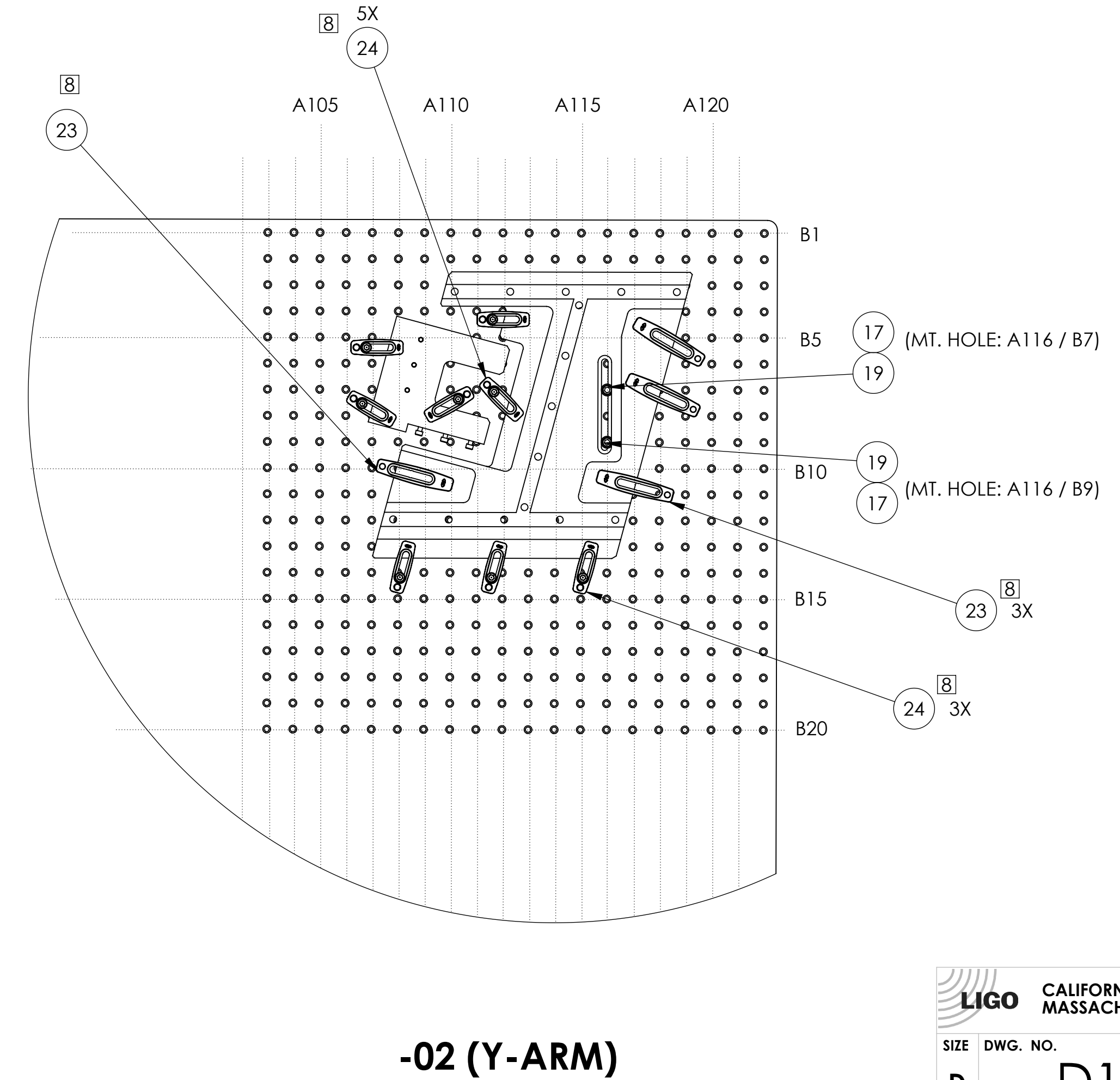
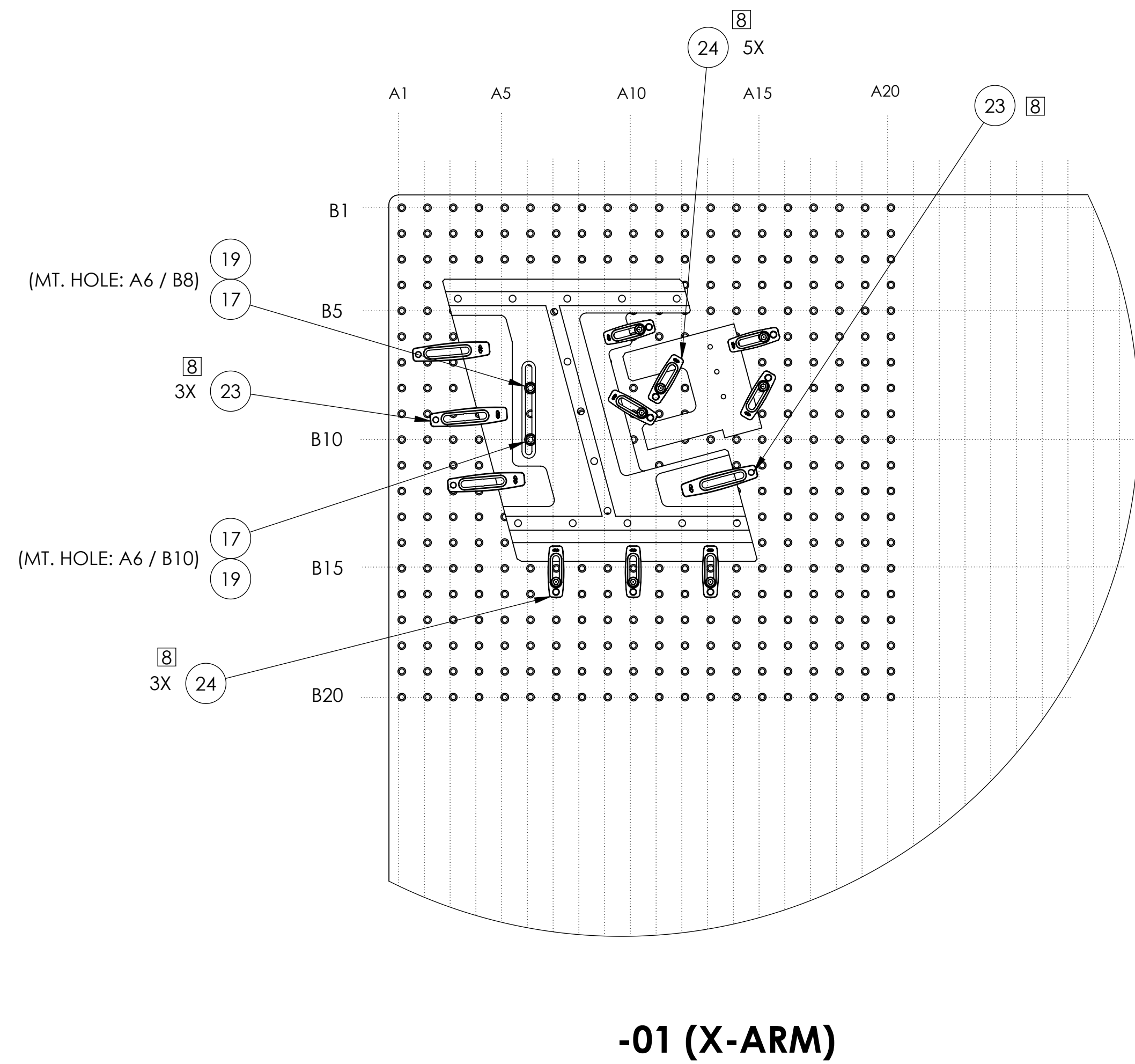
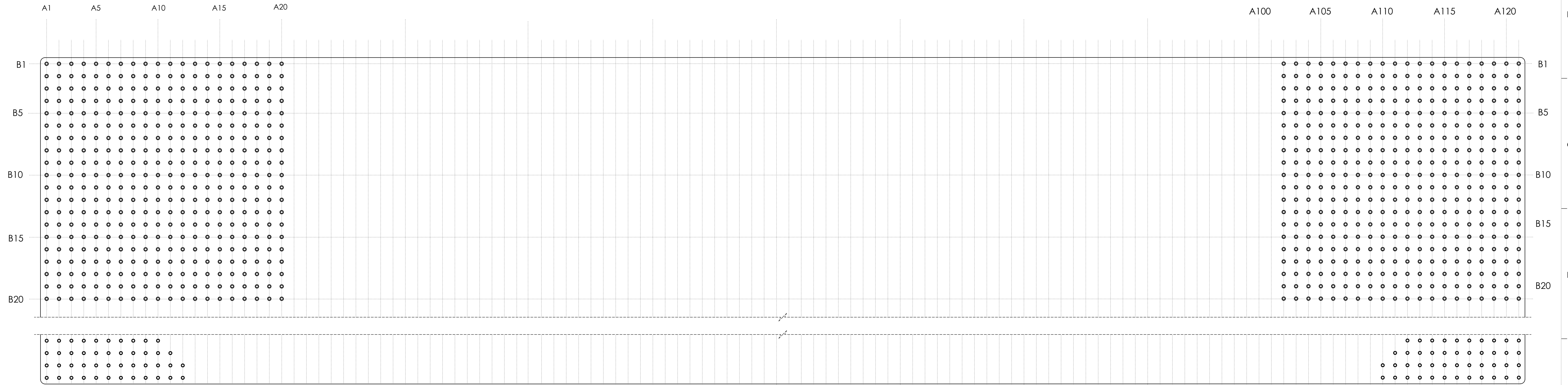
- 5 INTERFACE TO D1201370-02
- 2 TORQUE TO 65 IN-LBS MAX.
- 6 INTERFACE TO D1201371-02
- 7 INTERFACE TO D1201401-02
- 8 USE ALL INDICATED BASE CLAMPS FOR MAX STIFFNESS

**-02 (Y-ARM)**

<b>LIGO</b> CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		REV.
SIZE DWG. NO.	D1200953	v3
SCALE: 1:4	PROJECTION:	SHEET 3 OF 4

D1200953\_PERISCOPE ASSY. IN AIR. d1200953\_P01.dwg, H1-L1, PART FROM REV. X-154, DRAWING FROM REV. X-020

OPTICS TABLE HOLE NAMING CONVENTION



D1200953\_PERISCOPE\_ASSY\_IN\_AIR.dwg TCS COPR. H-1.1 PART PDM REV. X-154 DRAWING PDM REV. X-020