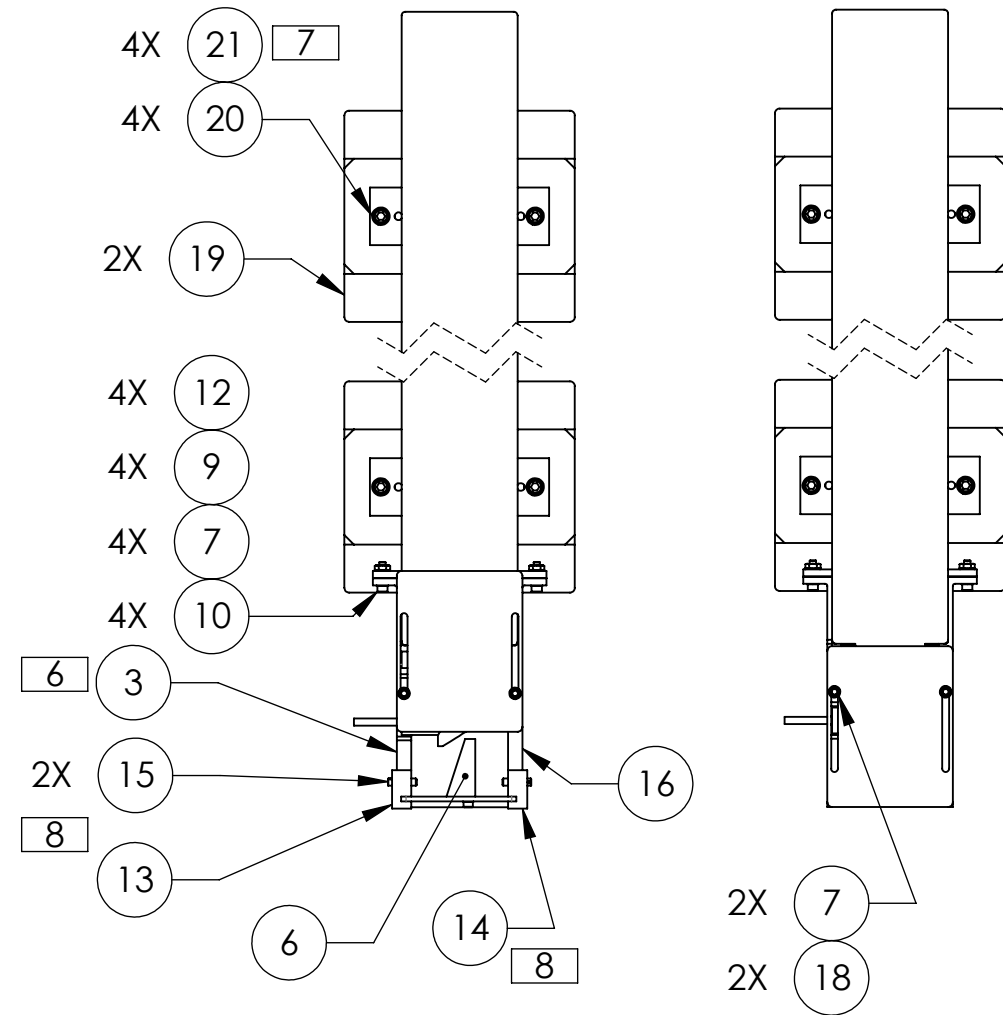


D1200782_αLIGO TCS CO2 LASER AND SHUTTER ASSY, PART PDM REV: X-085, DRAWING PDM REV: X-010

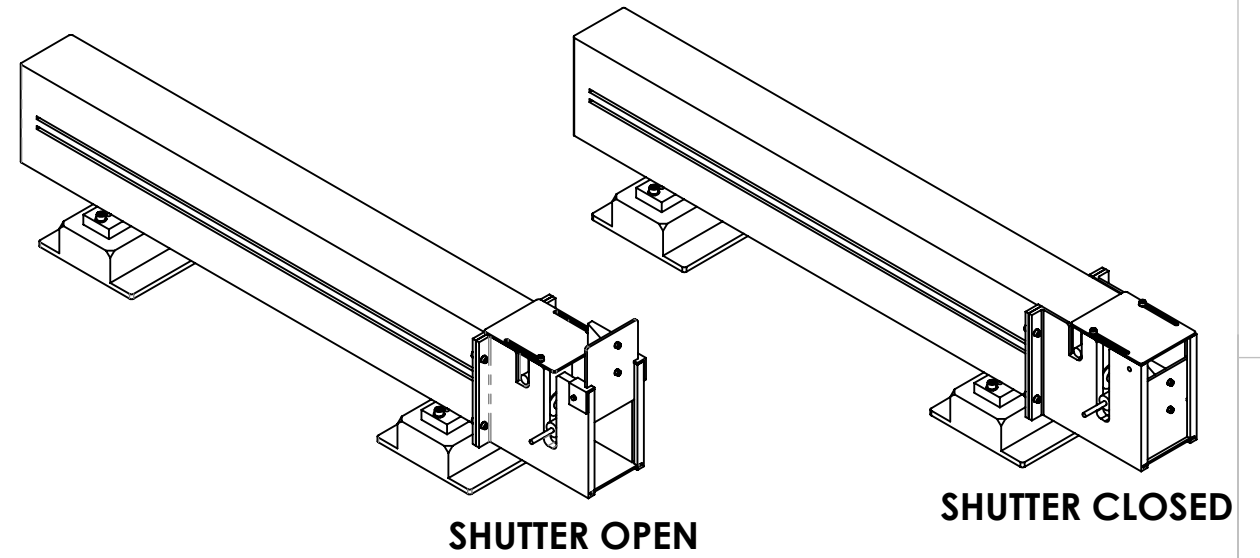
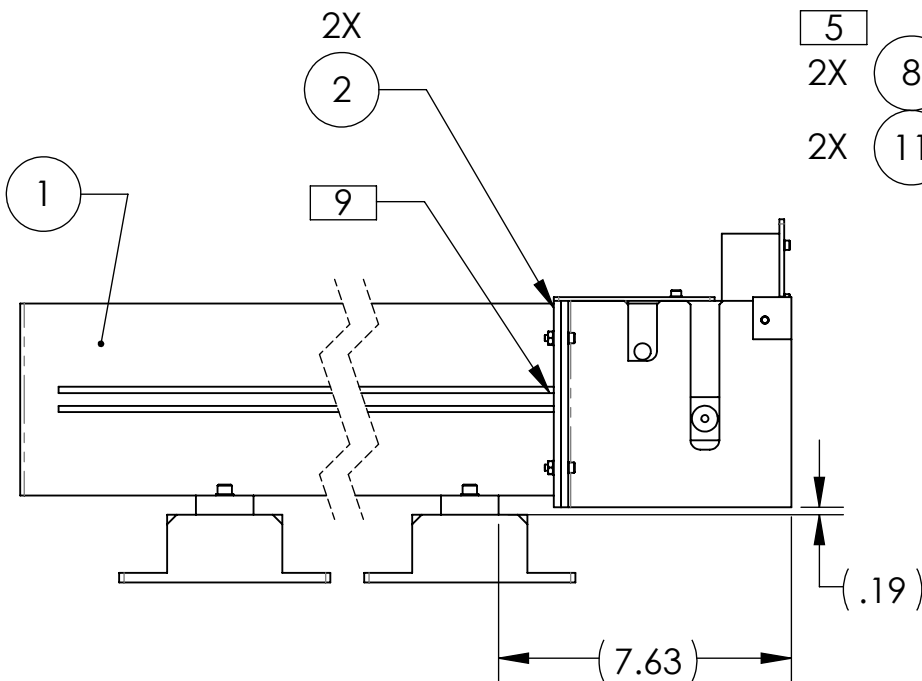
NOTES CONTINUED:

- 5 #6-32 TORQUE TO 8 in-lb, MAX
- 6 #8-32 TORQUE TO 20 in-lb, MAX
- 7 1/4-20 TORQUE TO 65 in-lb, MAX
- 8 REMOVE ITEMS 13, 14, AND 15 TO CLOSE THE SHUTTER
- 9 USE TEFLON TAPE ON PRONG FEATURES OF ITEM 2 TO ENSURE TIGHT FIT INSIDE CHANNELS



SHUTTER OPEN

SHUTTER CLOSED



ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	SHUTTER OPEN/QTY.	SHUTTER CLOSED/QTY.	SPARE	TOTAL
21	C-2016-N	SHCS, 1/4-20 UNC-2A X 1 LONG	300 SSSL	4	4	1	5
20	WF-25	FLAT WASHERS, .25" ID	300 SSSL	4	4	1	5
19	D1201510	BASE MOUNT, αLIGO CO2 LASER, 4" BEAM HEIGHT	6061 Alloy	2	2	0	2
18	C-806-N	SCREW, SOCKET HEAD CAP, #8-32 UNC-2A X 0.375 LONG	300 SSSL	2	2	2	4
17	D1200791	COVER, SHUTTER ASSY, αLIGO TCS CO2 LASER	6061 Alloy	1	1	0	1
16	D1200790	SHUTTER CLAMP, RIGHT SIDE	6061 Alloy	1	1	0	1
15	98404A005	QUICK RELEASE PIN, .5 IN LONG, MCMMASTER	18-8 SSSL	2	0	2	4
14	D1200786-02	UPPER STOP, SHUTTER	6061 Alloy	1	0	0	1
13	D1200786-01	UPPER STOP, SHUTTER	6061 Alloy	1	0	0	1
12	N-832-A	HEX NUT, #8-32	18-8 SSSL, Au	4	4	2	6
11	C-606-N	SCREW, SOCKET HEAD CAP, #6-32 UNC-2A X 0.375 LONG	300 SSSL	2	2	2	4
10	C-810-N	SCREW, SOCKET HEAD CAP, #8-32 UNC-2A X 0.625 LONG	300 SSSL	4	4	2	6
9	92141A009	WASHER, FLAT, #8, .375 OD (NAS 1149-C8L OR EQUIV)	300 SSSL	4	4	2	6
8	WF-06	WASHER, FLAT, #6 (NAS 620-C6L OR EQUIVALENT)	300 SSSL	2	2	2	4
7	WF-08	WASHER, FLAT, #8, .304 OD (NAS 620-C8L OR EQUIV)	300 SSSL	6	6	2	8
6	D1200784	BREWSTERS WEDGE, SHUTTER	6061 Alloy	1	1	0	1
5	D1200785	LOWER STOP, SHUTTER	6061 Alloy	1	1	0	1
4	D1200783	SHUTTER	6061 Alloy	1	1	0	1
3	D1200787	SHUTTER CLAMP, LEFT SIDE	6061 Alloy	1	1	0	1
2	D1200788	SHUTTER CLAMP BASE	6061 Alloy	2	1	0	2
1	D1001934	αLIGO TCS CO2 LASER	6061 Alloy	1	1	0	1

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES

TOLERANCES:
 .XX ±
 .XXX ±
 ANGULAR ± °

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

PARTS LIST

ADVANCED LIGO **AOS**

ALIGO TCS CO2 LASER AND SHUTTER ASSY

DESIGNER: M. JACOBSON 24-MAY-12 SIZE DWG. NO. REV.
 DRAFTER: M. JACOBSON 28-MAY-12 B **D1200782** v2
 CHECKER: M. JACOBSON 13-FEB-13
 APPROVAL: HEPTONSTALL 17-JAN-13 SCALE: 1:4 PROJECTION: SHEET 1 OF 1