



CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

DRWG NO. REV GID

E1000786-v2

ASSEMBLY NO:

D1001160-v2

OVERALL BILL OF MATERIALS

TITLE: aLIGO OPTICS TABLE TOP STRUCTURAL ASSEMBLY

DRAWN / AUTHOR:	APPROVALS:	DATE:	REV	DCN NO.	BY	CHECK	DCC	DATE
(REFERENCE CONTENTS)	CIT, CC	17-Aug-11	v2	E1100351-v1	CC			
CHECKED:								
APPROVED:								
DCC RELEASE								

ITEM NO	REQ.	SPARE	TOT.	PART NUMBER	REVISION	DESCRIPTION	MATERIAL
1	1	0	1	D1001129	v4	aLIGO ETM OPTICAL TABLE	6061-T6 Al
2	2	0	2	D1001163	v2	aLIGO OPTICS TABLE GUSSET PLATE, LARGE	6061-T6 Al
3	46	5	51	UC COMPONENTS C-2010-N or equiv		SCREW, SOCKET HEAD CAP 1/4-20 UNC-2A X 0.625 LONG	18-8 SSSL
4	104	25	129	UC COMPONENTS WFV-25 or equiv		VENTED FLAT WASHER .255 ID, .468 OD, .032 TH	18-8 SSSL
5	2	0	2	D1002221	v2	aLIGO OPTICS TABLE SPEADER BRIDGE	6061-T6 Al
6	12	4	16	UC COMPONENTS WFV-31 or equiv		VENTED FLAT WASHER .328 ID, .562 OD, .032 TH	18-8 SSSL
7	8	2	10	UC COMPONENTS C-1814-N or equiv		SCREW, SOCKET HEAD CAP 5/16-18 UNC-2A X 0.88 LONG	18-8 SSSL
8	2	0	2	D1001164	v2	aLIGO OPTICS TABLE GUSSET PLATE, SMALL	6061-T6 Al
9	1	0	1	D1002696	v2	aLIGO ETM TELESCOPE BRIDGE SUPPORT TEE PLATE, FRONT	6061-T6 Al
10	8	2	10	UC COMPONENTS C-2012-N or equiv		SCREW, SOCKET HEAD CAP 1/4-20 UNC-2A X 0.75 LONG	18-8 SSSL
11	12	3	15	UC COMPONENTS C-2008-N or equiv		SCREW, SOCKET HEAD CAP 1/4-20 UNC-2A X 0.5 LONG	18-8 SSSL
12	1	0	1	D1001109	v2	aLIGO ETM TELESCOPE BRIDGE SUPPORT TEE PLATE, BACK	6061-T6 Al
13	2	0	2	D1002755	v1	aLIGO TMS TELESCOPE ROLL SLIDE ROD	304 SSSL
14	4	2	6	UC COMPONENTS C-2012-A or equiv		SCREW, SOCKET HEAD CAP 1/4-20 UNC-2A X 0.75 LONG, VENTED	Ag-PLATED 18-8 SSSL
15	1	0	1	D1002698	v2	aLIGO TMS TELESCOPE ROLL SLIDE MASS	304 SSSL
16	1	0	1	D1002759	v2	aLIGO TMS TELESCOPE ROLL LOCK	6061-T6 Al
17	8	2	10	UC COMPONENTS C-2012-NA or equiv		SCREW, SOCKET HEAD CAP 1/4-20 UNC-2A X .75 LONG	Ag-PLATED 18-8 SSSL
18	1	1	2	99934A760 (McM-Carr) or equiv		SKT SET SCRW, 1/4-20 X 3/8 L, SILVER TIP	18-8 SSSL/ SILVER
19	1	0	1	D1002768	v3	aLIGO TMS TELESCOPE ROLL MASS ADJ. ROD	316 SSSL
20 ₁	2	0	2	8492A167 (McM-Carr) or equiv		DRILL BUSHING, PRESS FIT 5/16" ID, 1/2" OD, 3/8" LENGTH	Ni PLATED, HARD STEEL
21	2	1	3	60705K46 (McM-Carr) or equiv		THREADED COLLAR, CLAMP ON 5/16"-18 UNC, 11/16" OD, 9/32" WIDTH	300 SSSL
22	1	0	1	D1002769	v1	aLIGO TMS TELESCOPE ROLL SLIDE BKT.	6061-T6 Al
23	2	3	5	UC COMPONENTS WFV-10 or equiv		VENTED FLAT WASHER .195 ID, .354 OD, .032 TH	18-8 SSSL
24	2	2	4	BU-2406-NA (U-C Comp.) or equiv		BUTTON HEAD SOCKET SCREW #10-24 X 3/8	Ag-PLATED 18-8 SSSL
25	2	0	2	D1002758	v2	aLIGO TMS TELESCOPE PITCH GUIDE	304 SSSL
26	2	0	2	D1002699	v2	aLIGO PITCH SLIDE MASS	304 SSSL
27	2	0	2	D1002757	v1	aLIGO TMS TELESCOPE PITCH SLIDE BKT.	6061-T6 Al
28	4	2	6	UC COMPONENTS C-2016-NA or equiv		SCREW, SOCKET HEAD CAP 1/4-20 UNC-2A X 1.00 LONG	Ag-PLATED 18-8 SSSL
29	2	0	2	D1003162	v3	aLIGO TMS TELESCOPE PITCH MASS ADJ. ROD	316 SSSL
30	2	1	3	9421T300 (McM-Carr) or equiv		1/4" ID SHAFT COLLAR	316 SSSL
31	2	1	3	D1001161	v2	aLIGO OPTICS TABLE TOP MODIFIED EYEBOLT	304 SSSL
32	2	2	4	D1100989	v1	NICKEL-COPPER ALLOY 400 .312-18 HEX NUT, MODIFIED	Ni-Cu ALLOY 400
33	6	6	12	D1002767	v1	aLIGO TMS OPTICS TABLE CYLINDER MASS	304 SSSL
34	7	10	17	D1100358	v1	TMS TELESCOPE MASS ATTACHMENT SCREW	CP Ti GRADE 2
35	1	3	4	D1003330	v1	aLIGO TMS OPTICS TABLE SMALL CYLINDER MASS	304 SSSL

FOOT NOTES:

1. LOW PHOSPHOROUS ELECTROLESS NICKEL PLATE ITEMS 20. ADHERE TO LIGO SPECIFICATION E0900023 ("MANUFACTURING PROCESS FOR CANTELEVER SPRING BLADES FOR ADVANCED LIGO") SECTION 2.5.2. AS EXCEPTION TO SPECIFICATION E0900023, THE PLATING THICKNESS MAY BE .0003" MAX.