



CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

DRWG NO. **E1100546** REV **v2**

ASSEMBLY NO: D1000549

OVERALL BILL OF MATERIALS

TITLE: BOM-aLIGO UPPER INTERMEDIATE MASS TOP ASSEMBLY

APPROVALS:	DATE:	REV	DCN NO.	BY	CHECK	DCC	DATE
CIT, JT	12-Apr-12	v2	E1101214	JT			
DRAWN / AUTHOR: (REFERENCE CONTENTS)							
CHECKED:							
APPROVED:							
DCC RELEASE							

ITEM NO	-01 QTY	-01 SPARE	-01 TOTAL	-02 QTY	-02 SPARE	-02 TOTAL	PART NUMBER	REV	DESCRIPTION	MATERIAL
1	0	0	0	1	0	1	D060492	v2	aLIGO, SUS, QUAD ETM-ITM, UPPER STRUCTURE WELDMENT	N/A
2	0	0	0	2	0	2	D060324	v4	aLIGO, SUS, QUAD N-PTYPE TOP STAGE, BLADE CARTRIDGE	N/A
3	2	1	3	2	1	3	D1101166	v1	aLIGO TMS UPPER SUSPENSION WIRE ASSEMBLY	N/A
4	4	3	7	4	3	7	92200A544 (McM-Carr) or equiv		McMASTER, SCREW, SOCKET HEAD CAP, 1/4-20 UNC-2A X 1.25 LONG (OR EQUIV PER MS16995-53)	300 SSTL
5	40	11	51	32	11	43	96861A600 (McM-Carr) or equiv		McMASTER, VENTED FLAT WASHER, .255 ID X .468 OD X .032 THK	18-8 SSTL
6	8	4	12	12	4	16	92200A541 (McM-Carr) or equiv		McMASTER, SCREW, SOCKET HEAD CAP, 1/4-20 UNC-2A X 0.875 LONG (OR EQUIV PER MS16995-51)	300 SSTL
7	0	0	0	1	0	1	D1000407	v2	aLIGO OSUMS INTERMEDIATE SUPPORT RIGHT SIDE BRACKET	6061-T6 Al
8	0	0	0	1	0	1	D1000408	v2	aLIGO OSUMS INTERMEDIATE SUPPORT LEFT SIDE BRACKET	6061-T6 Al
9	4	1	5	4	1	5	D060315	v2	aLIGO, SUS, QUAD N-PTYPE TABLECLOTH, TABLECLOTH PINCH PLATE, UPPER STRUCTURE	6061-T6 Al
10	0	0	0	1	0	1	D1000411	v2	TMS INTERMEDIATE OSUM SUPPORT PLATE, REAR	6061-T6 Al
11	0	0	0	1	0	1	D1000409	v2	aLIGO OSUMS INTERMEDIATE SUPPORT RIGHT SIDE TRAY	6061-T6 Al
12	8	3	11	8	3	11	96861A400 (McM-Carr) or equiv		McMASTER, VENTED FLAT WASHER, .169 ID X .304 OD X .032 THK	18-8 SSTL
13	0	0	0	4	2	6	92200A196 (McM-Carr) or equiv		McMASTER, SCREW, SOCKET HEAD CAP, #8-32 UNC-2A X 0.625 LONG (OR EQUIV PER MS16995-27)	300 SSTL
14	0	0	0	1	0	1	D1000410	v2	aLIGO OSUMS INTERMEDIATE SUPPORT LEFT SIDE TRAY	6061-T6 Al
15	0	0	0	4	2	6	C-828-N (U-C Comp) or equiv		SCREW, SOCKET HEAD CAP, #8-32 UNC-2A X 1.75 LONG	18-8 SSTL
16	0	0	0	1	0	1	D060311	v3	TMS SUSPENSION TABLECLOTH PLATE, FRONT	6061-T6 Al
17	8	4	12	4	2	6	92200A548 (McM-Carr) or equiv		McMASTER, SCREW, SOCKET HEAD CAP, 1/4-20 UNC-2A X 1.75 LONG (OR EQUIV PER MS16995-55)	300 SSTL
18	0	0	0	4	2	6	C-2036-N (U-C Comp) or equiv		SCREW, SOCKET HEAD CAP, 1/4-20 UNC-2A X 2.25 LONG	18-8 SSTL
19	4	2	6	4	2	6	D060316	v2	aLIGO, SUS, QUAD N-PTYPE TABLECLOTH, OSEM AND ECD ADJUSTER	N/A
20	1	1	2	1	1	2	D060320	v2	aLIGO, SUS, QUAD N-PTYPE TABLECLOTH, OSEM ADJUSTMENT PLATE	N/A
21	1	1	2	1	1	2	D060322	v2	LIGO, SUS, QUAD N-PTYPE TABLECLOTH, TRANSVERSE OSEM ADJUSTER	N/A
22	0	0	0	1	0	1	D1000444	v1	aLIGO INTERMEDIATE MASS TOP ASSY WITH ADDED MASS(22kg)	N/A
23	0	0	0	8	4	12	D1100712-01	v1	TMS EARTHQUAKE STOP SCREW, 2.5"	316 SSTL
24	16	6	22	8	3	11	90810A029 (McM-Carr) or equiv		HEX NUT, 1/4-20	NICKEL-COPPER ALLOY 400
25	8	4	12	4	2	6	92200A542 (McM-Carr) or equiv		McMASTER, SCREW, SOCKET HEAD CAP, 1/4-20 UNC-2A X 1 LONG (OR EQUIV PER MS16995-52)	300 SSTL
26	0	0	0	2	0	2	D1100554	v1	TMS OSEM PLATE CLAMP	6061-T6 Al
27	2	1	3	2	1	3	D060499	v4	aLIGO SUS, QUAD ITM/ETM, REM. CROSS MEMBER, (UP STR)	6061-T6 Al
28	16	5	21	16	5	21	WFV-50 (U-C Comp) or equiv		VENTED FLAT WASHER, .515 ID, .875 OD, .032 THK	18-8 SSTL
29	16	5	21	16	5	21	D1101186	v1	aLIGO SUS .500-13 X 1 SHCS MODIFIED	316 SSTL
30	2	1	3	0	0	0	D1200120	v1	aLIGO TMS UPPER STAGE BLADE CARTRIDGE	N/A
31	1	1	2	0	0	0	D1000407	v3	aLIGO OSUMS INTERMEDIATE SUPPORT RIGHT SIDE BRACKET	6061-T6 Al
32	1	1	2	0	0	0	D1000408	v3	aLIGO OSUMS INTERMEDIATE SUPPORT LEFT SIDE BRACKET	6061-T6 Al
33	1	1	2	0	0	0	D1000411	v3	TMS INTERMEDIATE OSUM SUPPORT PLATE, REAR	6061-T6 Al
34	1	1	2	0	0	0	D1000409	v3	aLIGO OSUMS INTERMEDIATE SUPPORT RIGHT SIDE TRAY	6061-T6 Al
35	1	1	2	0	0	0	D1000410	v3	aLIGO OSUMS INTERMEDIATE SUPPORT LEFT SIDE TRAY	6061-T6 Al
36	1	1	2	0	0	0	D1100421	v1	TMS SUSPENSION TABLECLOTH PLATE, FRONT	6061-T6 Al
37	1	0	1	0	0	0	D1200453	v1	aLIGO TMS UPPER STRUCTURE WELDMENT	N/A



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 BOM-aLIGO UPPER INTERMEDIATE MASS TOP ASSEMBLY

38	8	4	12	0	0	0	C-807-N (U-C Comp) or equiv		SCREW, SOCKET HEAD CAP, #8-32 UNC-2A X 0.4375 LONG	300 SSSL
39	1	0	1	0	0	0	D1101526	v1	aLIGO TMS TOP MASS ASSEMBLY WITH ADDED MASS	N/A
40	16	8	24	0	0	0	D1100712-02	v1	TMS EARTHQUAKE STOP SCREW, 1.5"	316 SSSL

NOTE: -02 IS FIRST ARTICLE, -01 IS ALL OTHERS