



CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

DRWG NO. REV GID
E1100823-v1

ASSEMBLY NO:
[D1000442](#)

OVERALL BILL OF MATERIALS

TITLE:
 BOM-aLIGO INTERMEDIATE MASS TOP ASSEMBLY

	APPROVALS:	DATE:	REV	DCN NO.	BY	CHECK	DCC	DATE
DRAWN / AUTHOR: (REFERENCE CONTENTS)	CIT, JT	7-Feb-12	v1	E1100351	JT			
CHECKED:								
APPROVED:								
DCC RELEASE								

ITEM NO	REQ	SPARE	TOT	PART NUMBER	REVISION	DESCRIPTION	MATERIAL
1	1	0	1	D060397	v2	aLIGO, SUS, TOP MASS QUAD N-PTYPE, TOP MASS SPACER	304 SSSL
2	65	10	75	C-2016-NA		UC COMP, SOCKET HEAD CAP SCREW, .25-20 X 1 LG, SSSL	Ag-PLATED 300 SSSL
3	3	0	3	D1000395	v1	aLIGO INTERMEDIATE TOP MASS SPACER	304 SSSL
4	4	0	4	D060409	v3	aLIGO, SUS, QUAD N-PTYPE TOP MASS, OSEM ECD UNIT	N/A
5	2	0	2	D1000393	v2	aLIGO INTERMEDIATE MASS TOP PLATE	304 SSSL
6	1	0	1	D060412	v2	aLIGO, SUS, QUAD N-PTYPE TOP MASS, OSEM BRACKET (TOP OSEM)	6061-T6 Al
7	23	12	35	96861A600		McMASTER, 1/4 VENTED WASHER, .255 ID X .468 OD X .032	18-8 SSSL
8	2	1	3	D1001695	v2	HLTS MAGNET AND FLAG ASSEMBLY, BOSEM	N/A
9	2	0	2	D060420	v2	aLIGO, SUS, TOP MASS QUAD N-PTYPE, WIRE CLAMP ADJUSTMENT BLOCK	6061-T6 Al
10	1	0	1	D1000394	v2	aLIGO INTERMEDIATE MASS BOTTOM PLATE	304 SSSL
11	4	0	4	D060399	v2	aLIGO, SUS, QUAD TOP MASS N-PTYPE, STOP BRIDGE	6061-T6 Al
12	4	2	6	D1101269	v1	NICKEL-COPPER ALLOY 400, .250-20 HEX NUT, MODIFIED	NICKEL-COPPER ALLOY 400
13	6	0	6	D1101069	v1	SUS SPRING STOP SCREW	316 SSSL
14	2	0	2	D1000632	v2	aLIGO TOP MASS BAR	304 SSSL
15	12	0	12	92510A766		McMASTER, SPACER, ALUMINUM, .252 I.D., 1/2 O.D., 5/8 LG (OR EQUIV)	6061-T6 Al
16	4	4	8	C-2020-NA (U-C COMP) or equiv		SCREW, SOCKET HEAD CAP, 1/4-20 UNC-2A X 1.25 LONG	Ag-PLATED 300 SSSL
17	4	1	5	94804A029		McMASTER, HEX NUT, 1/4-20 2B, SSSL, ASME B18.2.2	316 SSSL
18	2	0	2	D070219	v2	aLIGO, SUS, QUAD N-PTYPE WIRING HARNESS, MASS WIRE CLAMP BASE	6061-T6 Al
19	8	3	11	97022A489		McMASTER, 1/4 SHIM WASHER, .251 ID X .375 OD X .03 THK	316 SSSL
20	8	4	12	D0900004	v1	UHV COMPATIBLE CABLE CLAMP	PEEK
21	4	1	5	C-2008-NA		U-C COMP, SOCKET HEAD CAP SCREW, .25-20 X .50 LG, SSSL	Ag-PLATED 300 SSSL
22	2	0	2	D060377	v2	aLIGO, SUS, QUAD N-PTYPE UI MASS, BLADE TIP Z POSITION	6061-T6 Al
23	2	0	2	D060378	v2	aLIGO, SUS, QUAD N-PTYPE UI MASS, BLADE TIP Z POSITION ADJ (BTM HALF)	304, 316 OR 302 SSSL
24	2	0	2	D060237	v2	ADV LIGO, SUS, QUAD N-PTYPE UI MASS, BOTTOM BLADE SPRINGS	MARAGING STEEL C250
25	2	0	2	D060380	v2	aLIGO, SUS, QUAD N-PTYPE UI MASS, BLADE CLAMP (TOP HALF)	304 SSSL
26	4	1	5	91944A028		McMASTER, 1/4 SELF ALIGNING WASHER SET, .266 MIN ID X .50 MAX OD X .29 MAX THK	18-8 SSSL
27	2	2	4	D1001697	v1	MAGNET RETAINER, BOSEM	316 SSSL
28	2	4	6	D1001534	v1	MAGNETIC PLUG	416 SSSL
29	2	2	4	DCNI01888/N		SINTERED NdFeB MAGNET, Ni-PLATED, 10 mm X 10 mm (MMG MAGDEV P/N OR EQUIVALENT)	NEO 35 (NdFeB)