

	A	B	C	D	E	F	G
1	D0900365 - AdvLIGO Systems, HAM2-L1 Top Level Chamber Assembly B.O.M.						
2	ITEM				PART NUMBER	DESCRIPTION	QTY.
3	1				D0900366	AdvLIGO VE HAM2-L1, Vacuum Equipment Assembly	1
4		1.1			D060160	HAM Shell Weldment ICD	1
5		1.2			D060159	HAM 84in Cover ICD	2
6		1.3			D980226-00-E	Naming Convention for Ports in HAM Chambers	1
7	2				D0900367	AdvLIGO, SEI HAM2-L1, XYZ Local CS for ISO Table	1
8		2.1			D0900124	HAM ISI Table, Advanced LIGO	1
9		2.2			D1001472	Pick-off Mirror Table Extension HAM2	1
10			2.2.1		D1100779	ALIGO, HAM TABLE EXTENDER, SUPPORT ARM	2
11			2.2.2		D1100783	ALIGO, HAM TABLER EXTENDER	1
12			2.2.3		D1100782	ALIGO, HAM TABLE EXTENDER, ADAPTER PLATE	2
13			2.2.4		92196A548	SCREW, SOC HD, 1/4-20 X 1.75 LG, 18-8	8
14			2.2.5		92210A628	SCREW, SOC FLT HD, 1/4-20 X 1.50 LG, 18-8	5
15			2.2.6		92196A628	HDW, SCREW, SOC HD CAP, 3/8-16 X 1.5 L, SS	6
16			2.2.7		98017A199	HDW WASHER, FLAT 3/8	6
17			2.2.8		D1100785-472	WASHER, FLAT, .25 X .472 O.D.	8
18		2.3			98017A200	FLAT WASHER, 3/8	22
19		2.4			TBD	SCREW, SHC, 3/8-24 X 3.0 LG	4
20		2.5			TBD	SCREW, SHC, 3/8-24 X 5.0 LG	18
21	3				D0900368	AdvLIGO SUS HAM2-L1, XYZ Local CS for HLTS (PR3)	1
22		3.1			D070447	HLTS OVERALL ASSEMBLY	1
23		3.2			D1002424	VIBRATION ABSORBER ASSEMBLY	2
24		3.3			D1001376-02	AdvLIGO HAM Optics Table Dog Clamp 1.1M	8
25		3.4			D1001376-03	AdvLIGO HAM Optics Table Dog Clamp 1.1L	3
26		3.5			D1001376-01	AdvLIGO HAM Optics Table Dog Clamp 1.1S	1
27		3.6			D1100785-530	NITRONIC WASHER FLAT	12
28		3.7			2AL2.000-12SL	1/4-20 12PT BOLT	12
29		3.8			D1101372	PR3 L1 OPTICS ASSEMBLY	1
30	4				D0900369	AdvLIGO SUS HAM2-L1, XYZ Local CS for HSTS (MC1,MC3, PRM)	1
31		4.1			D0900413	AdvLIGO SUS HAM2-L1, XYZ Local CS for HSTS (MC1) Sub-Assy	1
32			4.1.1		D020700	Assembly Mode Cleaner Suspension	1
33			4.1.2		D1100173	HSTS SUS STRUCTURE SPACER 9.25mm (parent: D1100049)	1
34			4.1.3		D1002424	VIBRATION ABSORBER ASSEMBLY	2
35			4.1.4		FA-2016-NA	1/4-20 X 1 FHSC SCREW (UC COMPONENTS)	30

	A	B	C	D	E	F	G
1	D0900365 - AdvLIGO Systems, HAM2-L1 Top Level Chamber Assembly B.O.M.						
2	ITEM				PART NUMBER	DESCRIPTION	QTY.
36			4.1.5		D1100785-530	WASHER, FLAT, .25 X .530 OD	12
37			4.1.6		2AL2.50-12SL	1/4-20 X 2.50 12PT BOLT	12
38			4.1.7		D1001376-11	AdvLIGO HAM Optics Table Dog Clamp 1.6M	3
39			4.1.8		D1100641-10	AdvLIGO HAM Optics Table Dog Clamp Chamfered End 1.6S	3
40			4.1.9		D1100641-11	AdvLIGO HAM Optics Table Dog Clamp Chamfered End 1.6M	5
41			4.1.10		D1001376-12	AdvLIGO HAM Optics Table Dog Clamp 1.6L	1
42			4.1.11		D1101365	MC1 L1 OPTICS ASSEMBLY	1
43		4.2			D0900414	AdvLIGO SUS HAM2-L1, XYZ Local CS for HSTS (MC3) Sub-Assy	1
44			4.2.1		D020700	Assembly Mode Cleaner Suspension	1
45			4.2.2		D1100173	HSTS SUS STRUCTURE SPACER 9.25mm (parent: D1100049)	1
46			4.2.3		D1002424	VIBRATION ABSORBER ASSEMBLY	2
47			4.2.4		FA-2016-NA	1/4-20 X 1 FHSC SCREW (UC COMPONENTS)	30
48			4.2.5		D1100785-530	WASHER, FLAT, .25 X .530 OD	12
49			4.2.6		2AL2.50-12SL	1/4-20 X 2.50 12PT BOLT	12
50			4.2.7		D1100641-10	AdvLIGO HAM Optics Table Dog Clamp Chamfered End 1.6S	3
51			4.2.8		D1100641-11	AdvLIGO HAM Optics Table Dog Clamp Chamfered End 1.6M	4
52			4.2.9		D1100641-12	AdvLIGO HAM Optics Table Dog Clamp 1.6L	1
53			4.2.10		D1101367	MC3 L1 OPTICS ASSEMBLY	1
54		4.3			D0900415	AdvLIGO SUS HAM2-L1, XYZ Local CS for HSTS (PRM) Sub-Assy	1
55			4.2.1		D020700	Assembly Mode Cleaner Suspension	1
56			4.2.2		D1100174	HSTS SUS STRUCTURE SPACER 8.91mm (parent: D1100049)	1
57			4.2.3		D1002424	VIBRATION ABSORBER ASSEMBLY	2
58			4.2.4		FA-2016-NA	1/4-20 X 1 FHSC SCREW (UC COMPONENTS)	30
59			4.2.5		D1100785-530	WASHER, FLAT, .25 X .530 OD	12
60			4.2.6		2AL2.50-12SL	1/4-20 X 2.50 12PT BOLT	12
61			4.2.7		D1001376-11	AdvLIGO HAM Optics Table Dog Clamp 1.6M	4
62			4.2.8		D1100641-10	AdvLIGO HAM Optics Table Dog Clamp Chamfered End 1.6S	2
63			4.2.9		D1100641-11	AdvLIGO HAM Optics Table Dog Clamp Chamfered End 1.6M	4
64			4.2.10		D1100641-12	AdvLIGO HAM Optics Table Dog Clamp Chamfered End 1.6L	2
65			4.2.11`		D1101368	PRM L1 OPTICS ASSEMBLY	1
66	4				D0900370	AdvLIGO IO HAM2-L1, XYZ Local CS for SOS Assy (SM1,SM2,PMMT1,PMMT2))	1
67		5.1			D1101537	AdvLIGO SUS HAM2-L1, XYZ Local CS for AUX SUS (SM1) Sub-Assy	1
68			5.1.1		D1000120	ALIGO IO HAM AUX SUS ASSEMBLY	1

	A	B	C	D	E	F	G
1	D0900365 - AdvLIGO Systems, HAM2-L1 Top Level Chamber Assembly B.O.M.						
2	ITEM				PART NUMBER	DESCRIPTION	QTY.
69			5.1.2		D0902378	ALIGO IO STRAIGHT SM1 PROTECTION BAFFLE	1
70			5.1.3		D1101523	ALIGO IO HAM AUX SUS L1 RISER ASSEMB LY	1
71			5.1.4		D1100640-07	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 750S	2
72			5.1.5		D1100640-08	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 750M	1
73			5.1.6		D1100640-09	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 750L	2
74			5.1.7		MS15795-811	WASHER FLAT, 1/4	5
75			5.1.8		78066 HK	SCREW, SHCP, 1/4-20 X 1.5 LG, HOLO-KROME	4
76			5.1.9		78070 HK	SCREW, SHCP, 1/4-20 X 3.0 LG, HOLO-KROME	1
77			5.1.10		D1003049	SM1 AR RETURN BAFFLE	1
78			5.1.11		D070097	ALIGO STEERING MIRROR SUBSTRATE	1
79		5.2			D1101538	AdvLIGO SUS HAM2-L1, XYZ Local CS for AUX SUS (SM2) Sub-Assy	1
80			5.2.1		D1000120	ALIGO IO HAM AUX SUS ASSEMBLY	1
81			5.2.2		D1002745	ALIGO_IO_SM2_BAFFLE_ASSEMBLY	1
82			5.2.3		D1101523	ALIGO IO HAM AUX SUS L1 RISER ASSEMB LY	1
83			5.2.4		D1100640-07	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 750S	2
84			5.2.5		D1100640-08	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 750M	2
85			5.2.6		D1100640-09	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 750L	2
86			5.2.7		MS15795-811	WASHER FLAT, 1/4	6
87			5.2.8		78066 HK	SCREW, SHCP, 1/4-20 X 1.5 LG, HOLO-KROME	6
88			5.2.9		D070097	ALIGO STEERING MIRROR SUBSTRATE	1
89		5.3			D1101539	AdvLIGO, SUS HAM2-H1, XYZ Local CS AUX SUS (PMMT1) SUB-ASSY	1
90			5.3.1		D1000120	ALIGO IO HAM AUX SUS ASSEMBLY	1
91			5.3.2		D0902380	ALIGO IO STRAIGHT PMMT1 PROTECTION BAFFLE	1
92			5.3.3		D1101523	ALIGO IO HAM AUX SUS L1 RISER ASSEMB LY	1
93			5.3.4		D1100640-07	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 750S	3
94			5.3.5		D1100640-08	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 750M	1
95			5.3.6		D1100640-09	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 750L	1
96			5.3.7		D1100640-04	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions .563S	1
97			5.3.8		MS15795-811	WASHER FLAT, 1/4	6
98			5.3.9		78066 HK	SCREW, SHCP, 1/4-20 X 1.5 LG, HOLO-KROME	5
99			5.3.10		2A120-(25)	SCREW, SHCP, 1/4-20 X 2.0 LG, HOLO-KROME	1
100			5.3.11		D1003045	ALIGO IO PMMT TRANSMISSION BAFFLE	1
101			5.3.12		D070097	ALIGO STEERING MIRROR SUBSTRATE	1

	A	B	C	D	E	F	G
1	D0900365 - AdvLIGO Systems, HAM2-L1 Top Level Chamber Assembly B.O.M.						
2	ITEM				PART NUMBER	DESCRIPTION	QTY.
102		5.4			D1101540	AdvLIGO, SUS HAM2-H1, XYZ Local CS AUX SUS (PMMT2) SUB-ASSY	1
103			5.4.1		D1000120	ALIGO IO HAM AUX SUS ASSEMBLY	1
104			5.4.2		D0902382	ALIGO IO STRAIGHT PMMT2 PROTECTION BAFFLE	1
105			5.4.3		D1101523	ALIGO IO HAM AUX SUS L1 RISER ASSEMBLY	1
106			5.4.4		D1100640-07	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 750S	4
107			5.4.5		MS15795-811	WASHER FLAT, 1/4	4
108			5.4.6		78066 HK	SCREW, SHCP, 1/4-20 X 1.5 LG, HOLO-KROME	4
109			5.4.7		D070097	ALIGO STEERING MIRROR SUBSTRATE	1
110	6				D0900371	AdvLIGO IO HAM2-L1, XYZ Local CS for Faraday Isolator	1
111		6.1			D1000332	ALIGO_IO_L1_FI_ASSEMBLY	1
112		6.2			D1100640-07	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 750L	1
113		6.3			D1100640-08	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 750M	5
114		6.4			D1100640-09	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 750S	2
115		6.5			D1100640-01	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 375S	2
116		6.6			MS15795-811	WASHER FLAT, 1/4	10
117		6.7			78062 HK	SCREW, SHCP, 1/4-20 X 1.0 LG, HOLO-KROME	2
118		6.8			98084 HK	SCREW, SHCP, 1/4-20 X 1.5 LG, HOLO-KROME	8
119	7				D0900420	AdvLIGO IO HAM2-L1, XYZ Local CS for In Vacuum Periscope	1
120		7.1			D1002350	ALIGO IO L1 IN VACUUM PERISCOPE	1
121		7.2			D1100640-04	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 563S	2
122		7.3			D1100640-06	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 563L	2
123		7.4			MS15795-811	WASHER FLAT, 1/4	4
124		7.5			78064 HK	SCREW, SHCP, 1/4-20 X 1.25 LG, HOLO-KROME	4
125	8				D1101406	AdvLIGO SUS HAM2,L1, XYZ Local Cs for Fixed Mount Optics	1
126		8.1			D1100640-04	AdvLIGO HAM Optics Table Dog Clamp SOS Suspension .563S	2
127		8.2			D1100640-05	AdvLIGO HAM Optics Table Dog Clamp SOS Suspension ..563M	1
128		8.3			78056 HOLO-KROME	SCREW, SHC, 1/4-20 X .63 LG.	19
129		8.4			D1101239	BLACK GLASS P BEAM DUMP ASSEMBLY	1
130		8.5			D1200372	ALIGO IO L1 FI DEPOL DUMP ASSEMBLY	1
131		8.6			D1101466	ADAPTIVE OPTICAL ELEMENT DUMMY HA2 ASSEMBLY	1
132		8.7			D1101225	BLACK GLASS S DUMP ASSEMBLY	2
133		8.8			D1100789 (3.235)	ALIGO IO IN VAC QPD ASSEMBLY (L1 HAM2 EXTENSION 3.235)	1
134		8.9			D0901488	HAM TABLE FORK	19

	A	B	C	D	E	F	G
1	D0900365 - AdvLIGO Systems, HAM2-L1 Top Level Chamber Assembly B.O.M.						
2	ITEM				PART NUMBER	DESCRIPTION	QTY.
135		8.10			D1102059	ADAPTIVE OPTICAL ELEMENT DUMMY HA12 ASSEMBLY	1
136		8.11			D1002088 (3.235)	ACTUATED RIGID OPTIC MOUNT RIGHT HAND DETAILED ASSEMBLY (L1 HAM2 EXTENSION 3.235)	1
137		8.12			D1002088 (4.235)	ACTUATED RIGID OPTIC MOUNT RIGHT HAND DETAILED ASSEMBLY (L1 HAM2 TABLE 4.235)	2
138		8.13			D1002075	RIGID OPTIC MOUNT RIGHT HAND DETAILED ASSEMBLY	1
139		8.14			D1002075 (4.235)	RIGID OPTIC MOUNT RIGHT HAND DETAILED ASSEMBLY (L1 HAM2 TABLE 4.235)	8
140		8.15			D1002085 (4.235)	RIGID OPTIC MOUNT LEFT HAND DETAILED ASSEMBLY (L1 HAM2 TABLE 4.235)	1
141		8.16			D1002085 (3.235)	RIGID OPTIC MOUNT LEFT HAND DETAILED ASSEMBLY (L1 HAM2 EXTENSION 3.235)	2
142	9				D1000554 *	AdvLIGO ZEMAX Laser Beam Rays & Optics, H1	1
143	10				D1000514 *	D1000513 HEPI, HAM, Chamber Level Assem, aLIGO SEI	1
144	11				D1000581	Cable Harness Routing Configuration HAM2	1
145	12				D1001625	AdvLIGO HAM2-L1 ISI Table, Payload & Suspended Mass Assembly	1
146		12.1			D0901075-04	AdvLIGO Bulk Trim Mass-SEI, BSC-HAM Tables	2
147		12.2			D071200-04	.440 (Type 04)	9
148		12.3			D071200-03	.240 (Type 03)	9
149		12.4			D071200-05	.690 Coarse (Type 05)	12
150		12.5			D071200-02	.120 Standard (Type 02)	15
151						Fasteners to connect to table, included in each sub-assembly mass	
152	13				D1101407	AdvLIGO IO HAM2-L1, XYZ Local CS for MC Refl Periscope	1
153		13.1			D1002677	ALIGO IO L1 MC REFL PERISCOPE	2
154		13.2			D1100640-01	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 375S	5
155		13.3			D1100640-02	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 375m	1
156		13.4			MS15795-811	WASHER FLAT, 1/4	6
157		13.5			78062 HK	SCREW, SHCP, 1/4-20 X 1.00 LG, HOLO-KROME	6
158	14				D1101408	AdvLIGO, SUS HAM2-L1 Table, IO Straight Baffle Assembly	1
159		14.1			D0902385	AdvLIGO IO Straight HA1 Baffle Assembly	1
160		14.2			D1003019	ALIGO_IO_STRAIGHT_P1_BAFFLE_ASSEMBLY	1
161		14.3			D1101416	AdvLIGO IO Straight HA13 Baffle Assembly	1
162		14.4			D1101417	AdvLIGO IO Straight HA11 Baffle Assembly	1
163		14.5			D0902389	AdvLIGO IO Straight HA3 Baffle Assembly	1
164		14.6			D1101414	Copy of AdvLIGO Systems, HAM2-H1 IO MC3 AR Baffle	1
165		14.7			D1101422	Copy of AdvLIGO Systems, HAM2-H1 IO PRM AR Baffle	1
166		14.8			D1101419	Copy of AdvLIGO Systems, HAM2-H1 IO Straight HA9 Baffle	1
167		14.9			D1100640-01	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 375S	8

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1	D0900365 - AdvLIGO Systems, HAM2-L1 Top Level Chamber Assembly B.O.M.						
2	ITEM				PART NUMBER	DESCRIPTION	QTY.
168		14.10			D1100640-02	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 375M	6
169		14.11			D1100640-03	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 375L	2
170		14.12			MS 15795-811	WASHER .025" FLAT	16
171		14.13			92200A542	SCREW, SHC, 1/4-20 X 1.00 LG	16
172	15				D1101410	AdvLIGO IO HAM2, XYZ Local CS for IO PSL PD Assembly	1
173		15.1			D1101059	ALIGO_IO_PSL_ISS_PD_ASSEMBLY	1
174		15.2			D1100640-01	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 375S	3
175		15.3			D1100640-02	AdvLIGO HAM Optics Table Dog Clamp SOS Suspensions 375m	1
176		15.4			MS15795-811	WASHER FLAT, 1/4	4
177		15.4			78062 HK	SCREW, SHCP, 1/4-20 X 1.00 LG, HOLO-KROME	4
178	16				D1101411	AdvLIGO SEI HAM2, XYZ Local for OptLev DLC Components	1
179		16.1			D1101392	ADVLIGO OPTLEV RIGID OPTIC MOUNT ASSEMBLY	1
180		16.2			D0901488	ALIGO_HAM_TABLE_FORK	1
181		16.3			78056 HK	SCREW, SHCP, 1/4-20 X .63 LG, HOLO-KROME	1
182	17				D1101412	ALIGO IO HAM2-L1, Table, IO EQ Stop Baffle Assembly	1
183		17.1			D1200714	ALIGO IO L1 MC3 EQ STOP BAFFLE	1
184		17.2			D1200715	ALIGO IO L1 PRM EQ STOP BAFFLE	1
185		17.3				Fasteners to connect to table?	