

FORMAL DRAWING TREE REFERENCE DOCUMENT

TITLE: aLIGO TCS Top Level Corner LVEA Assembly, In Air
full production for both H1 and L1

DOCUMENT CONTROL NO.: E1400005 -v1
RELATED DOC. CHANGE NO.: E1400004 -x0

CONTAINING ASSEMBLIES:
D1001227 -v5
D1000634 -v1
D1101627 -v3
D1000635 -v1
D1102389 -v2
D1102397 -v2
D1300617 -v1

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PURPOSE: This document is the formal reference for necessary revisions of each child of the stated assemblies, and the total necessary quantities for all items.

DCN	NOTES	Level	INDENTURE CHART	QUANTITY				DWG TREE REF. NO.	MATERIAL	DCC No.	CONFIG [TYPE]	NAME	TYPE	SOURCE	REV.	
				REQ'd	SPARE	TOT.	UNITS									
No.																
E1400004		0			1	0	1	EA	E1400005	D1001227		aLIGO TCS CORNER STATION [VERTEX] LAYOUT, TOP ASSEMBLY	TopAssy	MTS	v5	
E1400004	X-ARM BSC3	1			1	0	1	EA	E1400005	D1000634	-01	[aLIGO] TCS CO2P TABLE ASSEMBLY, H1-L1 [X-arm]	ASSY	MTS	v1	
		2			1	0	1	EA		AI 6061	D1200953	-01	PERISCOPE ASSEMBLY, IN AIR, aLIGO TCS CO2 LASER PROJECTION TABLE, H1-L1	ASSY	MTS	v2
		2			1	0	1	EA		MULTI	D1300294		H1-L1 LAYOUT, aLIGO TCS CO2 LASER PROJECTION SYSTEM TABLE ASSEMBLY	ASSY	MTS	
	NEWPORT	2			1	0	1	EA		MULTI	RS4000-410-18		OPTICS TABLE 4 FT X 10 FT X 18 IN	ASSY	OTS	
	NEWPORT	2			1	0	1	EA		MULTI	RL-2000-423.5TC		OPTICS TABLE SUPPORTS, 24 IN	ASSY	OTS	
	MINITEC	2			1	0	1	EA		MULTI	D1200761		aLIGO TCS CO2P TABLE ENCLOSURE	ASSY	MTS	v1
	ENVIRCO	2			1	0	1	EA		MULTI	MAC 10		HEPA FAN-LITER UNIT	ASSY	OTS	
	SUPERBRIGHT LEDs	2			4	0	4	EA		MULTI	LBFA-NW24		LBFA 24 VDC LINEAR LIGHT FIXTURE	PRT	OTS	
	MCMaster-CARR	2			10	0	10	EA		MULTI	7566K25		CABLE TIE HOLDER	PRT	OTS	
	SUPERBRIGHT LEDs	2			1	0	1	EA		MULTI	24VDC-PS		LUXBAR 24 VDC ENCLOSED POWER SUPPLY	ASSY	OTS	
	SUPERBRIGHT LEDs	2			1	0	1	EA		MULTI	LBFA-DT		LUXBAR MINI TOUCH DIMMER	ASSY	OTS	
	SUPERBRIGHT LEDs	2			4	0	4	EA		MULTI	LBFA-ix		LUXBAR INTERCONNECT JUMPER	PRT	OTS	
		2			1	0	1	EA		MULTI	D1300508		aLIGO TCS CO2P ENCLOSURE PATCH PANEL ASSY, LASER END	ASSY	MTS	v1
		2			1	0	1	EA		MULTI	D1300764		aLIGO TCS CO2P ENCLOSURE PATCH PANEL ASSY, PERISCOPE END	ASSY	MTS	v1
		2			1	0	1	EA		MULTI	D1101509		PICO MOTOR DRIVER CHASSIS	ASSY	MTS	v2
		2			1	0	1	EA		MULTI	D1300649		aLIGO TCS ISS AND INTERFACE CHASSIS	ASSY	MTS	v1
		2			1	0	1	EA		MULTI	D1201062		CO2 PROJECTOR ON-TABLE BREAKOUT BOX	ASSY	MTS	v1
		2			1	0	1	EA		MULTI	D1101935		TCS RTD TEMPERATURE SENSOR PACKAGE	ASSY	MTS	v1
		2			1	0	1	EA		MULTI	D1101738		PICO MOTOR BREAKOUT BOX	ASSY	MTS	v2
		2			1	0	1	EA		MULTI	D1300366		TCS IR SENSOR COMPARATOR BOX	ASSY	MTS	v1
E1400004	Y-ARM BSC1	1			1	0	1	EA	E1400005	D1000634	-02	[aLIGO] TCS CO2P TABLE ASSEMBLY, H1-L1 [Y-arm]	ASSY	MTS	v1	
		2			1	0	1	EA		AI 6061	D1200953	-02	PERISCOPE ASSEMBLY, IN AIR, aLIGO TCS CO2 LASER PROJECTION TABLE, H1-L1	ASSY	MTS	v2
		2			1	0	1	EA		MULTI	D1300294		H1-L1 LAYOUT, aLIGO TCS CO2 LASER PROJECTION SYSTEM TABLE ASSEMBLY	ASSY	MTS	
	NEWPORT	2			1	0	1	EA		MULTI	RS4000-410-18		OPTICS TABLE 4 FT X 10 FT X 18 IN	ASSY	OTS	
	NEWPORT	2			1	0	1	EA		MULTI	RL-2000-423.5TC		OPTICS TABLE SUPPORTS, 24 IN	ASSY	OTS	
	MINITEC PN AM02062013-1	2			1	0	1	EA		MULTI	D1200761		aLIGO TCS CO2P TABLE ENCLOSURE	ASSY	MTS	v1
	ENVIRCO	2			1	0	1	EA		MULTI	MAC 10		HEPA FAN-LITER UNIT	ASSY	OTS	
	SUPERBRIGHT LEDs	2			4	0	4	EA		MULTI	LBFA-NW24		LBFA 24 VDC LINEAR LIGHT FIXTURE	PRT	OTS	
	MCMaster-CARR	2			10	0	10	EA		MULTI	7566K25		CABLE TIE HOLDER	PRT	OTS	
	SUPERBRIGHT LEDs	2			1	0	1	EA		MULTI	24VDC-PS		LUXBAR 24 VDC ENCLOSED POWER SUPPLY	ASSY	OTS	
	SUPERBRIGHT LEDs	2			1	0	1	EA		MULTI	LBFA-DT		LUXBAR MINI TOUCH DIMMER	ASSY	OTS	
	SUPERBRIGHT LEDs	2			4	0	4	EA		MULTI	LBFA-ix		LUXBAR INTERCONNECT JUMPER	PRT	OTS	
	FRONT PANEL EXPRESS	2			1	0	1	EA		MULTI	D1300508		aLIGO TCS CO2P ENCLOSURE PATCH PANEL ASSY, LASER END	ASSY	MTS	v1
	FRONT PANEL EXPRESS	2			1	0	1	EA		MULTI	D1300764		aLIGO TCS CO2P ENCLOSURE PATCH PANEL ASSY, PERISCOPE END	ASSY	MTS	v1
		2			1	0	1	EA		MULTI	D1101509		PICO MOTOR DRIVER CHASSIS	ASSY	MTS	v2
		2			1	0	1	EA		MULTI	D1300649		aLIGO TCS ISS AND INTERFACE CHASSIS	ASSY	MTS	v1
		2			1	0	1	EA		MULTI	D1201062		CO2 PROJECTOR ON-TABLE BREAKOUT BOX	ASSY	MTS	v1
		2			1	0	1	EA		MULTI	D1101935		TCS RTD TEMPERATURE SENSOR PACKAGE	ASSY	MTS	v1
		2			1	0	1	EA		MULTI	D1101738		PICO MOTOR BREAKOUT BOX	ASSY	MTS	v2
		2			1	0	1	EA		MULTI	D1300366		TCS IR SENSOR COMPARATOR BOX	ASSY	MTS	v1
E1300826	X-ARM BSC3	1			1	0	1	EA	E1200248	D1101627	-01	VIEWPORT ENCLOSURE ASSY, H1-L1 CO2P [X-arm]	ASSY	MTS	v3	
E1300826	Y-ARM BSC1	1			1	0	1	EA	E1200248	D1101627	-02	VIEWPORT ENCLOSURE ASSY, H1-L1 CO2P [Y-arm]	ASSY	MTS	v3	
	HAM4	1			1	0	1	EA		D1000635		[aLIGO] TCS HWS TABLE ASSEMBLY, HAM4	ASSY	MTS	v1	
	MINITEC PN AM02062013-1	2			1	0	1	EA		D1102412		aLIGO TCS HWS HAM4 TABLE ENCLOSURE	ASSY	MTS	v1	
	NEWPORT	2			1	0	1	EA		MULTI	RS4000-410-18		OPTICS TABLE 4 FT X 10 FT X 18 IN	ASSY	OTS	
	NEWPORT	2			1	0	1	EA		MULTI	RL-2000-423.5TC		OPTICS TABLE SUPPORTS, 24 IN	ASSY	OTS	
	ENVIRCO	2			1	0	1	EA		MULTI	MAC10		HEPA FILTER BANK	ASSY	OTS	
	SUPERBRIGHT LEDs	2			3	0	3	EA		MULTI	LBFA-NW24		LBFA 24 VDC LINEAR LIGHT FIXTURE	PRT	OTS	
	MCMaster-CARR	2			8	0	8	EA		MULTI	7566K25		CABLE TIE HOLDER	PRT	OTS	
	SUPERBRIGHT LEDs	2			1	0	1	EA		MULTI	24VDC-PS		LUXBAR 24 VDC ENCLOSED POWER SUPPLY	ASSY	OTS	
	SUPERBRIGHT LEDs	2			1	0	1	EA		MULTI	LBFA-DT		LUXBAR MINI TOUCH DIMMER	ASSY	OTS	
	SUPERBRIGHT LEDs	2			3	0	3	EA		MULTI	LBFA-ix		LUXBAR INTERCONNECT JUMPER	PRT	OTS	
	FRONT PANEL EXPRESS	2			1	0	1	EA		MULTI	D1300455		aLIGO TCS HWS HAM4 TABLE ENCLOSURE [Y] SIDE PATCH PANEL ASSY	ASSY	MTS	v1
	FRONT PANEL EXPRESS	2			1	0	1	EA		MULTI	D1300456		aLIGO TCS HWS HAM4 TABLE ENCLOSURE [Y] SIDE PATCH PANEL ASSY	ASSY	MTS	v1
E1300169	2 PER TABLE	2			2	0	2	EA	E1300170	AI 6061	D1300197		HWS BEAM TUBE ENCLOSURE CLAMP ASSEMBLY	ASSY	MTS	v1
		2			1	0	1	EA		MULTI	D1300300		aLIGO TCS HWS-X OPTO-MECH TABLE LAYOUT ASSEMBLY	ASSY	MTS	v1
		2			1	0	1	EA		MULTI	D1300302		aLIGO TCS HWS-Y OPTO-MECH TABLE LAYOUT ASSEMBLY	ASSY	MTS	v1
E1300281		2			1	0	1	EA	E1300170	AI 6061	D1300198	-01	aLIGO TCS HWSX-HWSY PERISCOPE ASSEMBLY	ASSY	MTS	v1
E1300281		2			1	0	1	EA	E1300170	AI 6061	D1300198	-02	aLIGO TCS HWSX-HWSY PERISCOPE ASSEMBLY	ASSY	MTS	v1
		2			1	0	1	EA		MULTI	D1101509		PICO MOTOR DRIVER CHASSIS	ASSY	MTS	v2
		2			1	0	1	EA		MULTI	D1200934		HARTMANN CORNER STATION BREAKOUT CHASSIS	ASSY	MTS	v1
		2			1	0	1	EA		MULTI	D1101738		PICO MOTOR BREAKOUT BOX	ASSY	MTS	v2
E1300169		1			1	0	1	EA	E1300170	MULTI	D1102389		aLIGO TCS HWS HAM4 HWS-X VIEWPORT and BEAM ENCLOSURE ASSY	ASSY	MTS	v2
E1300169		1			1	0	1	EA	E1300170	MULTI	D1102397		aLIGO TCS HWS HAM4 HWS-X VIEWPORT and BEAM ENCLOSURE ASSY	ASSY	MTS	v2
E1300607	L1	1			1	0	1	EA	E1300608	PVC, SSSL	D1300617	-01	PLUMBING LAYOUT, aLIGO TCS CO2 LASER PROJECTION SYSTEM [X-arm Supply]	ASSY	MTS	v1
E1300607	L1	1			1	0	1	EA	E1300608	PVC, SSSL	D1300617	-11	PLUMBING LAYOUT, aLIGO TCS CO2 LASER PROJECTION SYSTEM [X-arm Return]	ASSY	MTS	v1
E1300607	L1	1			1	0	1	EA	E1300608	PVC, SSSL	D1300617	-02	PLUMBING LAYOUT, aLIGO TCS CO2 LASER PROJECTION SYSTEM [Y-arm Supply]	ASSY	MTS	v1
E1300607	L1	1			1	0	1	EA	E1300608	PVC, SSSL	D1300617	-12	PLUMBING LAYOUT, aLIGO TCS CO2 LASER PROJECTION SYSTEM [Y-arm Return]	ASSY	MTS	v1
E1300607	H1	1			1	0	1	EA	E1300813	PVC, SSSL	D1300617	-101	PLUMBING LAYOUT, aLIGO TCS CO2 LASER PROJECTION SYSTEM [X-arm Supply]	ASSY	MTS	v1
E1300607	H1	1			1	0	1	EA	E1300813	PVC, SSSL	D1300617	-111	PLUMBING LAYOUT, aLIGO TCS CO2 LASER PROJECTION SYSTEM [X-arm Return]	ASSY	MTS	v1
E1300607	H1	1			1	0	1	EA	E1300813	PVC, SSSL	D1300617	-102	PLUMBING LAYOUT, aLIGO TCS CO2 LASER PROJECTION SYSTEM [Y-arm Supply]	ASSY	MTS	v1
E1300607	H1	1			1	0	1	EA	E1300813	PVC, SSSL	D1300617	-112	PLUMBING LAYOUT, aLIGO TCS CO2 LASER PROJECTION SYSTEM [Y-arm Return]	ASSY	MTS	v1