



FORMAL DRAWING TREE REFERENCE DOCUMENT

TITLE: **aLIGO TCS Viewport Enclosure Assembly, H1/L1**
corresponds to the Production version

DOCUMENT CONTROL NO.: **E1200248 -v2**
 RELATED DOC. CHANGE NO.: E1300826 -v1

CONTAINING ASSEMBLIES: D1101627 -v3

AUTHOR: M. JACOBSON
 DATE: 31-Oct-13

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.	TYPE [config.]	NAME	TYPE	SOURCE	REV.
				REQ'd	SPARE	TOT.	UNITS								
No.															
EXTERNAL TO VACUUM															
E1300826	(QTY 1 EA TYPE) x3 IFOs	0			3	0	3	EA	E1200248	D1101627	-01 -02	VIEWPORT ENCLOSURE ASSY, H1-L1 CO2P TCS	TopAssy	MTS	v3
E1200247		1			1	0	1	EA	E1200248	AI 6061	-01 -02	CUSTOM 10-IN VP FLANGE, aLIGO TCS H1-L1	PRT	MTS	v1
	EBARA	1			24		24	EA	SSTL			BOLT, 12-PT FLANGE HEAD, 5/16-24 X 2.5 IN LONG	HW	OTS	
	EBARA	1			24		24	EA	SSTL			FLAT WASHER, 5/16, MS 15795-812 OR EQUIV.	HW	OTS	
	EBARA	1			12		12	EA	SSTL			NUT PLATE, 5/16-24	HW	OTS	
		1			1		1	EA	Cu			CONFLAT 10-IN GASKET	HW	OTS	
E1200247		1			1	0	1	EA	E1200248	AI 6061	-01 -02	PRIMARY VIEWPORT CLAMP, H1-L1 BSC 1 AND 3	PRT	MTS	v1
	HUGHES CIRCUITS	2			2	1	3	EA	E1200248	KAPTON		KAPTON WASHER-STYLE SHIM	PRT	MTS	v1
	II-VI	2			1	0	1	EA	E1200248	ZnSe	D1100439	VP ZnSe WINDOW, .5 THICK, 60 MIN WEDGE	PRT	MTS	v1
	ReSOURCE MFG, ACCUGLASS	2			1	0	1	EA	E1200248	PEEK	D1300970	WEDGED WASHER-STYLE SHIM	PRT	MTS	v1
	PG&O	2			1	0	1	EA	E1200248	FS	D1100540	aLIGO TCS .5 IN THICK OPTICAL WINDOW	PRT	MTS	v1
	ReSOURCE MFG, ACCUGLASS	2			1	0	1	EA	E1200248	PEEK	D1100495	WASHER, CLAMP RING	PRT	MTS	v3
	UC COMPONENTS	1			6	2	8	EA		18-8 SSTL	C-2018	SHCS 1/4-20 X 1.125 IN LONG	HW	OTS	
E1200247		1			1	0	1	EA	E1200248	AI 6061	-01 -02	SECONDARY VIEWPORT CLAMP, H1-L1 BSC 1 AND 3	PRT	MTS	v1
	HUGHES CIRCUITS	2			2	1	3	EA	E1200248	KAPTON	D1300973	KAPTON WASHER-STYLE SHIM	PRT	MTS	v1
	II-VI	2			1	0	1	EA		D1100485		VP ZnSe WINDOW, .25 THICK, 60 MIN WEDGE	PRT	MTS	v1
		2			1	0	1	EA		D1100539		aLIGO TCS .25 IN THICK OPTICAL WINDOW	PRT	MTS	v2
	UC COMPONENTS	1			4	1	5	EA		C-2016		SHCS 1/4-20 X 1 IN LONG	HW	OTS	
E1200247		1			1	0	1	EA	E1200248	AI 6061	-01 -02	COVER, SECONDARY VIEWPORT CLAMP, H1-L1 BSC 1 AND 3	PRT	MTS	v1
E1200247		1			1	0	1	EA	E1200248	AISI 304	-01 -02	ZnSe VP BEAM BLOCK, SHORT	PRT	MTS	v2
	MCMMASTER	1			1	0	1	EA		AISI 304, SBR RUBBER	8981T24	CABLE CLAMP, DAMPED, FOR 1/4" CABLE CLEARANCE	HW	OTS	
	UC COMPONENTS	1			2	2	4	EA		18-8 SSTL	WF-08	FLAT WASHER, #8, NAS 620-C8L OR EQUIV.	HW	OTS	
	UC COMPONENTS	1			2	2	4	EA		18-8 SSTL	C-804	SHCS #8-32 X .25 IN LONG	HW	OTS	
E1200247		1			1	0	1	EA	E1200248	AISI 304	D1201420	ZnSe VP BEAM BLOCK, LONG	PRT	MTS	v1
	UC COMPONENTS	1			8	2	10	EA		18-8 SSTL	WF-06	FLAT WASHER, #6, NAS 620-C6L OR EQUIV.	HW	OTS	
	UC COMPONENTS	1			8	2	10	EA		18-8 SSTL	C-608	SHCS #6-32 X .5 IN LONG	HW	OTS	
	UC COMPONENTS	1			8	2	10	EA		18-8 SSTL	WF-10	FLAT WASHER, #10, NAS 1149-C10L OR EQUIV.	HW	OTS	
	UC COMPONENTS	1			8	2	10	EA		18-8 SSTL	C-1012	SHCS #10-32 X .75 IN LONG	HW	OTS	
E1200247		1			1	0	1	EA	E1200248		D1201528	IR SENSOR SUBASSEMBLY	ASSY	MTS	v1
E1200247		2			1	0	1	EA	E1200248	AISI 304	D1201507	SUPPORT BLOCK, IR SENSOR	PRT	MTS	v1
	OMEGA	2			1	0	1	EA		SSTL BODY	OS36SM-K-1xxF	OMEGA SUBMINI IR SENSOR	PRT	OTS	
	MCMMASTER	2			1	0	1	EA		PEEK	6627K14	FLANGED SLEEVE BEARING, 1/4" ID, 5/16" OD, 1/2" LONG	HW	OTS	
	UC COMPONENTS	2			1	1	2	EA		18-8 SSTL	WF-08	FLAT WASHER, #8, NAS 620-C8L OR EQUIV.	HW	OTS	
	UC COMPONENTS	2			1	1	2	EA		18-8 SSTL	C-812	SHCS #8-32 X .75 IN LONG	HW	OTS	
	UC COMPONENTS	2			1	1	2	EA		18-8 SSTL	N-832	HEX NUT, #8-32	HW	OTS	
	MCMMASTER	2			1	0	1	EA		AISI 304	53175K21	MINI BOLT TUBE CLAMP, ID RANGE .2967 TO .3281	HW	OTS	
	UC COMPONENTS	1			2	2	4	EA		18-8 SSTL	FA-606	FHSCS #6-32 X .375 IN LONG	HW	OTS	