



FORMAL DRAWING TREE REFERENCE DOCUMENT

TITLE: **aLIGO TCS Hartmann Sensor**
for Production

DOCUMENT CONTROL NO.: **E1200580 -v5**
RELATED DOC. CHANGE NO.: E1400016 -v1

CONTAINING ASSEMBLY: D1000657 -v7

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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.	NAME	TYPE	SOURCE	REV.	
				REQ'd	SPARE	TOT.	UNITS								
No.															
EXTERNAL TO VACUUM															
E1400016		0			1		1	EA	E1200580	D1000657	aLIGO TCS HARTMANN SENSOR	TopAssy	MTS	v7	
	DALSA	1			1		1	EA		multi	D1000709	CAMERA, DALSA PANTERA 1M60, DS-22-01M60-12E	PRT	OTS	N/A
E1400016	U-Adelaide	1			1		1	EA		Invar 36	D1000708	aLIGO HARTMANN SENSOR CAMERA SPACER PLATE	PRT	MTS	v7
		1			4	1	5	EA		18-8		FHSCS M4 x 6 MM LONG	HW	OTS	N/A
E1400016	U-Adelaide	1			1		1	EA		Invar 36	D1000658	aLIGO HARTMANN SENSOR PLATE CLAMP	PRT	MTS	v5
		1			4	1	5	EA		18-8		SS SHCS M3 X 12 MM LONG	HW	OTS	N/A
		1			5	1	6	EA		18-8		FLAT WASHER, M3	HW	OTS	N/A
	MCMaster CARR	1			1		1	EA		Al	73125K68	FLAG STYLE RING TERMINAL	HW	OTS	N/A
	THORLABS	1			1		1	EA		Al	SM1L05	THORLABS 1 IN LENS TUBE, .5 IN LONG	PRT	OTS	N/A
	THORLABS	1			1		1	EA			FB840-10	THORLABS 840 nm BP FILTER, 10 nm FWHM	PRT	OTS	N/A
E1200579	U-Adelaide	1			1		1	EA		Invar, HV 213	D1000669	HARTMANN PLATE	HW	MTS	v5
		2			2		2	EA		SSTL		DOWEL PIN, METRIC, 2.5 MMOD X 12 MM LONG	HW	OTS	N/A
E1100147		1			2		2	EA		Cu, Alloy 110	D1000729	HEAT SPREADER	PRT	MTS	v3
E1100147		1			2	2	4	EA		Al 6063-T5	D1000736	HEAT SINK	PRT	MTS	v2
	W/ MODIFIED HEAD	1			4	1	5	EA		18-8		SS SHCS M4 X 25 MM LONG	HW	OTS	N/A
	Omega	1			1	0	1	EA		Pt, multi	D1200568	HARTMANN PLATE RTD CABLE ASSEMBLY	ASSY	MTS	v1
		1			4	1	5	EA		18-8		SS SHCS 1/4-20 UNC-2A X .75 LONG	HW	OTS	N/A
		1			4	1	5	EA		18-8		FLAT WASHER, .296 ID, .438 OD	HW	OTS	N/A
E1200579		1			1		1	EA		Al 6061	D1000715	HARTMANN SENSOR CAMERA MOUNT	PRT	MTS	v4
		1			2	2	4	EA		18-8		SHCS, #8-32 X 1.25 IN LONG	HW	OTS	N/A
		1			1	1	2	EA		18-8		SS SHCS 1/4-20 UNC-2A X .5 LONG	HW	OTS	N/A
		1			1	1	2	EA		18-8		SS HEX HEAD 1/4-20 UNC-2A X .5 LONG	HW	OTS	N/A
	EDT	1			1		1	EA		multi		RCX C-LINK	PRT	OTS	N/A