



CALIFORNIA INSTITUTE OF TECHNOLOGY

FORMAL DRAWING TREE REFERENCE DOCUMENT

TITLE: **aLIGO TCS CO2P Steering Mirror 2 Assembly, H1/L1**
for First Article

DOCUMENT CONTROL NO.: **E1200003 -v1**

RELATED DOC. CHANGE NO.: E1200002 -v1

CONTAINING ASSEMBLIES: D1101851 -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. / Catalog No.	TYPE [config.]	NAME	TYPE	SOURCE	REV.		
				REQ'd	SPARE	TOT.	UNITS										
No.																	
INTERNAL TO VACUUM																	
E1200002	BSC2	0			1	0	1	EA	E1200003		D1101851	-01	-02	aLIGO TCS CO2P SYS STEERING OPTICS ASSY, H1/L1, BSC2	TopAssy	MTS	v1
	Kugler	1			1	0	1	EA		Cu	D1102171			aLIGO TCS CO2P STEERING MIRROR 2, H1-L1	PRT	MTS	v1
	Olander or AirHardware	2			8	2	10	EA		SSTL	1185-3EN285			HELICOIL [N60, 10-24 X 1.5D LONG]	HW	OTS	v1
		1			2	0	2	EA		SSTL	D1102175			FINE ADJUST PIVOT ROD, CO2P SM2, H1-L1	PRT	MTS	v1
	UC Components	1			8	2	10	EA		SSTL	WF-10			FLAT WASHER, #10	HW	OTS	
	UC Components	1			4	1	5	EA		SSTL, Ag PLT	C-2418-A			SHCS, 10-24 X 1.125 IN LONG, VENTED, Ag PLATED	HW	OTS	
		1			1	0	1	EA		Al 6061	D1102413	-01	-02	ELEVATION SUPPORT PLATE, CO2P SM2, H1-L1	PRT	MTS	v1
	Olander or AirHardware	2			2	2	4	EA		N60	1191-3EN285			HELICOIL [N60, 10-32 X 1.5D LONG]	HW	OTS	
		1			2	0	2	EA		Al 6061	D1200265			ELEVATION SUPPORT WEB	PRT	MTS	v1
	UC Components	1			2	2	4	EA		SSTL	SHCV-4430			VENTED HEX HD .375IN SHOULDER SHC #10-32	HW	OTS	
	UC Components	1			4	1	5	EA		SSTL	C-2412-A			SHCS, 10-24 X .75 IN LONG, VENTED, Ag PLATED	HW	OTS	
		1			1	0	1	EA		SSTL, Ag PLT	D1102176	-01	-02	AZIMUTH SUPPORT PLATE, CO2P SM2, H1-L1	PRT	MTS	v1
	Olander or AirHardware	2			2	2	4	EA		N60	1191-3EN285			HELICOIL [N60, 10-32 X 1.5D LONG]	HW	OTS	
		1			1	0	1	EA		Al 6063	D1102380	-01	-02	aLIGO TCS CO2P SM2 ASSY SHORT SUPPORT	PRT	MTS	v1
		1			1	0	1	EA		Al 6063	D1102384	-01	-02	aLIGO TCS CO2P SM2 ASSY LONG SUPPORT	PRT	MTS	v1
		1			1	0	1	EA		SSTL	D1200266			U-CHANNEL, .75IN LEG, 1.5IN BASE, .125IN THK, SSTL 304	PRT	MTS	v1
		1			1	0	1	EA		SSTL	D1102440	-01	-02	SUPPORT BRACKET, SHORT-SIDE SUSPENSION ARM	PRT	MTS	v1
	Olander or AirHardware	2			1	1	2	EA		N60	1191-3EN285			HELICOIL [N60, 10-32 X 1.5D LONG]	HW	OTS	
		1			1	0	1	EA		SSTL	D1102441	-01	-02	SUPPORT BRACKET, LONG-SIDE SUSPENSION ARM	PRT	MTS	v1
	Olander or AirHardware	2			1	1	2	EA		N60	1191-3EN285			HELICOIL [N60, 10-32 X 1.5D LONG]	HW	OTS	
	UC COMPONENTS	1			3	2	5	EA		SSTL, Ag PLT	C-1011-NA			SHCS, 10-32 X .68 IN LONG, Ag PLATED	HW	OTS	
	UC COMPONENTS	1			1	1	2	EA		SSTL, Ag PLT	C-1016-NA			SHCS, 10-32 X 1.0 IN LONG, Ag PLATED	HW	OTS	
	UC COMPONENTS	1			4	1	5	EA		SSTL	SHCV-4436			VENTED HEX HD 1.5IN SHOULDER SHC #10-32	HW	OTS	
	UC COMPONENTS	1			6	4	10	EA		SSTL, Ag PLT	C-2016-NA			SHCS 1/4-20 X 1 LONG, Ag PLTD	HW	OTS	
	UC COMPONENTS	1			16	4	20	EA		SSTL, Ag PLT	WF-25-A			FLAT WASHER, .25, Ag PLTD	HW	OTS	
	UC COMPONENTS	1			6	4	10	EA		SSTL	N-2520			SS NUT, HEX HD, 1/4-20	HW	OTS	
	UC COMPONENTS	1			6	4	10	EA		SSTL	NJ-2520			SS HEX JAM NUT, 1/4-20	HW	OTS	