



FORMAL DRAWING TREE REFERENCE DOCUMENT

TITLE: **aLIGO TCS UHV H2 CO2 MIRROR ASSEMBLIES**
for Formal Design Review

DOCUMENT CONTROL NO.: **E1000884 -v1**
RELATED DOC. CHANGE NO.: E1000883 -v1

CONTAINING ASSEMBLIES: D1001742 -v2
D1002431 -v2

AUTHOR: M. JACOBSON
DATE: 23-Dec-10

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.														
E1000883	BSC7 = mirror of BSC8	0						E1000884	D1001742	aLIGO TCS CO2P SYS STEERING OPTICS ASSY, H2, BSC7	TopAssy	MTS	v2	
	KUGLER	1						Cu	D1001727	TCS H2IN-VAC MIRROR [Ø12 IN, Au-COATED Cu]	PRT	MTS	v2	
	HELICOIL	2						N60	TYPE 1185	NITRONIC-60, #8-32, 2-1/2 D, .410 LONG, SIZE 2CN	HW	OTS		
		1						SSTL	D1002313	TCS UHV FINE ADJUST PIVOT ROD	PRT	MTS	v2	
		1						Al 6061	D1002312	TCS UHV AZ FINE ADJUST PIVOT PLATE, BSC7	PRT	MTS	v2	
	HELICOIL	2						N60	TYPE 1191	NITRONIC-60, #10-32, 2 D, .380 LONG, SIZE 3CN	HW	OTS		
		1						Al 6061	D1002311	TCS UHV EL FINE ADJUST PIVOT PLATE	PRT	MTS	v2	
	HELICOIL	2						N60	TYPE 1191	NITRONIC-60, #10-32, 2 D, .380 LONG, SIZE 3CN	HW	OTS		
	UC COMPONENTS	1						SSTL, Ag PLT	C-820-A	VENTED, Ag PLATED SS SHCS #8-32 X 1.25 LONG	HW	OTS		
	UC COMPONENTS	1						SSTL, Ag PLT	C-812-A	VENTED, Ag PLATED SS SHCS #8-32 X .75 LONG	HW	OTS		
	UC COMPONENTS	1						SSTL	WFV-08	VENTED FLAT WASHER #8	HW	OTS		
	UC COMPONENTS	1						SSTL	SHCV-4436	VENTED HEX HD 1.5IN SHOULDER SHC #10-32	HW	OTS		
	UC COMPONENTS	1						SSTL, Ag PLT	WFV-25-A	VENTED FLAT WASHER, 1/4, SILVER PLATED	HW	OTS		
		1						SSTL	D1002287	TCS UHV BRACKET [LONG SIDE], BSC7	PRT	MTS	v3	
	HELICOIL	2						N60	TYPE 1191	NITRONIC-60, #10-32, 2-1/2 D, .475 LONG, SIZE 3CN	HW	OTS		
		1						SSTL	D1002315	TCS UHV BRACKET, SHORT SIDE, BSC7	PRT	MTS	v3	
	HELICOIL	2						N60	TYPE 1191	NITRONIC-60, #10-32, 2-1/2 D, .475 LONG, SIZE 3CN	HW	OTS		
		1						Al	D1002317	TCS UHV LONG SUPPORT, BSC7 & BSC8	PRT	MTS	v3	
		1						Al	D1002327	TCS UHV SHORT SUPPORT, BSC7 & BSC8	PRT	MTS	v3	
	Viton, SYS procurement	1						VITON	D1003328	TCS UHV H2 ASSEMBLY INTERFACE DAMPER	PRT	MTS	v1	
		1						Al	D1002333	TCS UHV BACK BRACE, BSC7 & BSC8	PRT	MTS	v3	
		1						SSTL	D1002334	TCS UHV COARSE ADJUST PIVOT ROD	PRT	MTS	v2	
	UC COMPONENTS	1						SSTL	C-2016-N	SS SHCS 1/4-20 x 1-IN LONG	HW	OTS		
	UC COMPONENTS	1						SSTL, Ag PLT	N-2520-A	SS NUT, HEX HD, 1/4-20	HW	OTS		
E1000883	BSC8 = mirror of BSC7	0						E1000884	D1002431	aLIGO TCS CO2P SYS STEERING OPTICS ASSY, H2, BSC8	TopAssy	MTS	v2	
	KUGLER	1						Cu	D1001727	TCS H2IN-VAC MIRROR [Ø12 IN, Au-COATED Cu]	PRT	MTS	v2	
	HELICOIL	2						N60	TYPE 1185	NITRONIC-60, #8-32, 2-1/2 D, .410 LONG, SIZE 2CN	HW	OTS		
		1						SSTL	D1002313	TCS UHV FINE ADJUST PIVOT ROD	PRT	MTS	v2	
		1						Al 6061	D1002455	TCS UHV AZ FINE ADJUST PIVOT PLATE, BSC8	PRT	MTS	v2	
	HELICOIL	2						N60	TYPE 1191	NITRONIC-60, #10-32, 2 D, .380 LONG, SIZE 3CN	HW	OTS		
		1						Al 6061	D1002311	TCS UHV EL FINE ADJUST PIVOT PLATE	PRT	MTS	v2	
	HELICOIL	2						N60	TYPE 1191	NITRONIC-60, #10-32, 2 D, .380 LONG, SIZE 3CN	HW	OTS		
	UC COMPONENTS	1						SSTL, Ag PLT	C-820-A	VENTED, Ag PLATED SS SHCS #8-32 X 1.25 LONG	HW	OTS		
	UC COMPONENTS	1						SSTL, Ag PLT	C-812-A	VENTED, Ag PLATED SS SHCS #8-32 X .75 LONG	HW	OTS		
	UC COMPONENTS	1						SSTL	WFV-08	VENTED FLAT WASHER #8	HW	OTS		
	UC COMPONENTS	1						SSTL	SHCV-4436	VENTED HEX HD 1.5IN SHOULDER SHC #10-32	HW	OTS		
	UC COMPONENTS	1						SSTL, Ag PLT	WFV-25-A	VENTED FLAT WASHER, 1/4, SILVER PLATED	HW	OTS		
		1						SSTL	D1002454	TCS UHV BRACKET [LONG SIDE], BSC8	PRT	MTS	v2	
	HELICOIL	2						N60	TYPE 1191	NITRONIC-60, #10-32, 2-1/2 D, .475 LONG, SIZE 3CN	HW	OTS		
		1						SSTL	D1002453	TCS UHV BRACKET, SHORT SIDE, BSC8	PRT	MTS	v2	
	HELICOIL	2						N60	TYPE 1191	NITRONIC-60, #10-32, 2-1/2 D, .475 LONG, SIZE 3CN	HW	OTS		
		1						Al	D1002317	TCS UHV LONG SUPPORT, BSC7 & BSC8	PRT	MTS	v3	
		1						Al	D1002327	TCS UHV SHORT SUPPORT, BSC7 & BSC8	PRT	MTS	v3	
	Viton, SYS procurement	1						VITON	D1003328	TCS UHV H2 ASSEMBLY INTERFACE DAMPER	PRT	MTS	v1	
		1						Al	D1002333	TCS UHV BACK BRACE, BSC7 & BSC8	PRT	MTS	v3	
		1						SSTL	D1002334	TCS UHV COARSE ADJUST PIVOT ROD	PRT	MTS	v2	
	UC COMPONENTS	1						SSTL	C-2016-N	SS SHCS 1/4-20 x 1-IN LONG	HW	OTS		
	UC COMPONENTS	1						SSTL, Ag PLT	N-2520-A	SS NUT, HEX HD, 1/4-20	HW	OTS		