



FORMAL DRAWING TREE REFERENCE DOCUMENT

TITLE: **aLIGO TCS Ring Heater Assemblies**
for Production Lot #2

DOCUMENT CONTROL NO.: **E1200717 -v1**
RELATED DOC. CHANGE NO.: E1200716 -v1

CONTAINING ASSEMBLIES: D1001838 -v6
D1001895 -v6

AUTHOR: M. JACOBSON
DATE: 2-Jul-12

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.														
E1100901		1			15	0	15	EA	E1200717	D1001838	aLIGO [TCS] UPPER SEGMENT RING HEATER ASSY	ASSY	MTS	v6
		2			1	0	1	EA		Al, Au-coated	D1001679	aLIGO TCS UPPER MONOLITH RH SHIELD	PRT	MTS
	UC COMPONENTS	2			2	2	4	EA		18-8	C-812	SHCS #8-32 X .75 IN LONG, VENTED	HW	OTS
	UC COMPONENTS	2			2	2	4	EA		18-8	WFV-08	FLAT WASHER, #8, VENTED	HW	OTS
E1200716	Caltech provided	2			1	1	2	EA	E1200717	glass	D1002538	SIMPLIFIED GLASS FORMER	PRT	MTS
		2			20.0	10.0	30	FT		NiCr		NICHROME WIRE, 24 AWG	PRT	OTS
		2			1	0	1	EA		Macor	D1002543-01	RH ELEMENT CONNECTOR, SIMPLIFIED LEFT	PRT	MTS
		2			1	0	1	EA		Macor	D1002544-01	RH ELEMENT CONNECTOR, SIMPLIFIED RIGHT	PRT	MTS
		2			1	1	2	EA		Macor	D1002545	SIMPLIFIED RH ELEMENT STANDOFF	PRT	MTS
	UC COMPONENTS	2			3	1	4	EA		Stainless Steel	T-402	SS Set Screw #4-40 x .125, vented	HW	OTS
	UC COMPONENTS	2			4	2	6	EA		18-8	FA-404	SS FSHCS-V #4-40 UNC 2A X .25 LONG	HW	OTS
	ACCUGLASS	2			4.25	2.125	6.4	IN		Kapton, Cu	100680	22 AWG KAPTON INSULATED Cu SOLID WIRE, 2x 2.125 IN LENGTH	HW	OTS
	ACCUGLASS	2			2	2	4	EA		Cu, Au-coated	100170	20-24 AWG PIN CONTACT, MALE	HW	OTS
	UC COMPONENTS	2			2	1	3	EA		18-8	C-204-N	SHCS #2-56 x .25 IN LONG	HW	OTS
		2			1	0	1	EA		Cu 110 Alloy	D1200560-01	BASE OF Cu CALMP, LEFT SIDE	PRT	MTS
		2			1	0	1	EA		Cu 110 Alloy	D1200561-01	Cu CLAMP, LEFT SIDE	PRT	MTS
		2			1	0	1	EA		Cu 110 Alloy	D1200560-02	BASE OF Cu CALMP, RIGHT SIDE	PRT	MTS
		2			1	0	1	EA		Cu 110 Alloy	D1200561-02	Cu CLAMP, RIGHT SIDE	PRT	MTS
E1100901		1			15	0	15	EA	E1200717	D1001895	aLIGO [TCS] LOWER SEGMENT RING HEATER ASSY	ASSY	MTS	v6
		2			1	0	1	EA		Al, Au-coated	D1001680	aLIGO TCS UPPER MONOLITH RH SHIELD	PRT	MTS
	UC COMPONENTS	2			2	2	4	EA		18-8	C-812	SHCS #8-32 X .75 IN LONG, VENTED	HW	OTS
	UC COMPONENTS	2			2	2	4	EA		18-8	WFV-08	FLAT WASHER, #8, VENTED	HW	OTS
E1200716	Caltech provided	2			1	1	2	EA	E1200717	glass	D1002538	SIMPLIFIED GLASS FORMER	PRT	MTS
		2			20.0	10.0	30	FT		NiCr		NICHROME WIRE, 24 BNC [DIA .5 MM]	PRT	OTS
		2			1	0	1	EA		Macor	D1002543-02	RH ELEMENT CONNECTOR, SIMPLIFIED LEFT	PRT	MTS
		2			1	0	1	EA		Macor	D1002544-02	RH ELEMENT CONNECTOR, SIMPLIFIED RIGHT	PRT	MTS
		2			1	1	2	EA		Macor	D1002545	SIMPLIFIED RH ELEMENT STANDOFF	PRT	MTS
	UC COMPONENTS	2			3	1	4	EA		Stainless Steel	T-402	SS Set Screw #4-40 x .125, vented	HW	OTS
	UC COMPONENTS	2			4	2	6	EA		18-8	FA-404	SS FSHCS-V #4-40 UNC 2A X .25 LONG	HW	OTS
	ACCUGLASS	2			13.75	6.875	21	IN		Kapton, Cu	100680	22 AWG KAPTON INSULATED Cu SOLID WIRE, 2x 2.125 IN LENGTH	HW	OTS
	ACCUGLASS	2			2	2	4	EA		Cu, Au-coated	100170	20-24 AWG PIN CONTACT, MALE	HW	OTS
	UC COMPONENTS	2			2	1	3	EA		18-8	C-204-N	SHCS #2-56 x .25 IN LONG	HW	OTS
		2			1	0	1	EA		Cu 110 Alloy	D1200560-01	BASE OF Cu CALMP, LEFT SIDE	PRT	MTS
		2			1	0	1	EA		Cu 110 Alloy	D1200561-01	Cu CLAMP, LEFT SIDE	PRT	MTS
		2			1	0	1	EA		Cu 110 Alloy	D1200560-02	BASE OF Cu CALMP, RIGHT SIDE	PRT	MTS
		2			1	0	1	EA		Cu 110 Alloy	D1200561-02	Cu CLAMP, RIGHT SIDE	PRT	MTS