



CALIFORNIA INSTITUTE OF TECHNOLOGY  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

**E0900052 - v1**

DRWG NO. REV

SHEET SEE BOTTOM LEFT

ASSEMBLY NO.

**D0900293**

**PROJECT DRAWING TREE**

TITLE: Advanced LIGO Output Mode Cleaner Suspension Overall Assembly and Assembly Fixtures

NUMBER	DESCRIPTION	REVISION
	APPROVALS:	DATE:
AUTHOR:	M. Meyer	23-Feb-09
CHECKED:	J. Romie	14-Apr-09
APPROVED:		
DCC RELEASE		

NUMBER	DESCRIPTION	REVISION
<b>D0900293</b>	<b>OUTPUT MODE CLEANER SUSPENSION OVERALL ASSEMBLY AND ASSEMBLY FIXTURES</b>	v1
D0900295	OUTPUT MODE CLEANER SUSPENSION OVERALL ASSEMBLY	v1
D0900655	STRUCTURAL WELDMENT ASSEMBLY, OUTPUT MODE CLEANER SUSPENSION	v1
D0900308	Structural Weldment, OMC Suspension	v1
D0900346	Base, OMC Structural Weldment	v1
D0900347	Top Plate, OMC Structural Weldment	v1
D0900348	Leg, OMC Structural Weldment	v1
D0900349	7x7 Gusset, OMC Structural Weldment	v1
D0900350	4x7 Gusset, OMC Structural Weldment	v1
D0900309	Corner Brace, OMC Structural Weldment	v1
D070145	TOP BLADE GUARD ASSEMBLY	v1(B)
D070146	Blade Guard Crosspiece	v1 (A)
D070147	Blade Guard Riser	v1 (B)
D030021	SHCS, 1/4-20 x 2.5, Rounded End	B
D070052	Connector Bracket, OMC	v2 (C)
D070028	Blade Platform, OMC	v1 (A)
D030451	ROTATIONAL ADJUSTER ASSEMBLY	C
D030448	Base Plate	v1 (B)
D030447	Rotating Plate	v1 (C)
D080018	Upper Blade	C
D030450	Pull Plate	v1 (B)
D030449	Push Plate	v1 (B)
D030459	RA Upper Blade Clamp Lower Side 0.0 Degree	v1 (B)
D020116	Upper Blade Clamp Upper Side 0.0 Degree	v1 (B)
D020680	Upper Blade Clamp Lower Side Shim 2mm	v1 (B)
D020677	Assembly Library of Clamps	v1
D020116	Upper Blade Clamp, Upper Side, 0.0 Degree	v1
D020325	Upper Blade Clamp, Upper Side, Angled 0.5 Degrees	v1
D020328	Upper Blade Clamp, Upper Side, Angled 2.5 Degrees	v1
D020312	Upper Blade Clamp, Upper Side, Angled 2.0 Degrees	v1
D020327	Upper Blade Clamp, Upper Side, Angled 1.5 Degrees	v1
D020326	Upper Blade Clamp, Upper Side, Angled 1.0 Degrees	v1
D020679	Upper Blade Clamp, Lower Side Shim, 1mm	v1
D020680	Upper Blade Clamp, Lower Side Shim, 2mm	v1
D020340	Lower Blade Clamp, Upper Side, Angled 2.5 Degrees	v1
D020336	Lower Blade Clamp, Lower Side, Angled 2.5 Degrees	v1
D020313	Lower Blade Clamp, Lower Side, Angled 2.0 Degrees	v1
D020314	Lower Blade Clamp, Upper Side, Angled 2.0 Degrees	v1
D020339	Lower Blade Clamp, Upper Side, Angled 1.5 Degrees	v1
D020335	Lower Blade Clamp, Lower Side, Angled 1.5 Degrees	v1
D020334	Lower Blade Clamp, Lower Side, Angled 1.0 Degrees	v1
D020338	Lower Blade Clamp, Upper Side, Angled 1.0 Degrees	v1
D020333	Lower Blade Clamp, Lower Side, Angled 0.5 Degrees	v1
D020337	Lower Blade Clamp, Upper Side, Angled 0.5 Degrees	v1
D020682	Lower Blade Clamp, Shim, 1mm	v1
D020119	Lower Blade Clamp, Upper Side, 0.0 Degrees	v1
D020308	Lower Blade Clamp, Lower Side, 0.0 Degrees	v1
D020689	Upper Blade Clamp, Upper Side, Angled 3.0 Degrees	v1
D020690	Upper Blade Clamp, Upper Side, Angled 3.5 Degrees	v1
D030459	RA Upper Blade Clamp Lower Side 0.0 Degree	v1
D030460	RA Upper Blade Clamp Lower Side, Angled 0.5 Degrees	v1
D030461	RA Upper Blade Clamp Lower Side, Angled 1.0 Degrees	v1
D030462	RA Upper Blade Clamp Lower Side, Angled 1.5 Degrees	v1



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NUMBER	DESCRIPTION	REVISION
D030463	RA Upper Blade Clamp Lower Side, Angled 2.0 Degrees	v1
D030464	RA Upper Blade Clamp Lower Side, Angled 2.5 Degrees	v1
D030465	RA Upper Blade Clamp Lower Side, Angled 3.0 Degrees	v1
D030466	RA Upper Blade Clamp Lower Side, Angled 3.5 Degrees	v1
D060536	UPPER WIRE ASSEMBLY	A
D070022	Top Blade Wire Clamp	v1 (B)
D030042	Upper Blade Wire Clamp Plate	v1 (B)
D070030	C-Clamp 4 Top Wire	v1 (B)
D020309	Upper Mass Wire Clamp Plate	v1 (B)
D020139	Upper Mass Wire Clamp Plate	v1 (B)
D060533-1	Mounting Bracket, Coil Holder, OMC	v1 (B)
D060533-2	Mounting Bracket, Coil Holder, OMC	v1 (B)
D060530	Coil Holder, OMC (Table Cloth)	v1 (A)
D060218	BOSEM ASSEMBLY	C
D060106	Coilformer	C
D060107	Coilformer Backplate	C
D060108	Coilformer Clamp	C
D060109	Adjuster Shaft	C
D060110	Adjuster Nut	C
D050435	Flexi-Circuit	C
D060217	PD ASSEMBLY	C
D060112	PD Carrier	C
D060117	PD Sleeve	C
D060114	PD Retainer	C
D060216	IRLED ASSEMBLY	C
D060111	IRLED Carrier	C
D060113	IRLED Retainer	C
D060115	IRLED Lens Retainer	C
D060116	IRLED Sleeve	C
D060502	UPPER MASS ASSEMBLY	v1 (C)
D060491	Main Section, Upper Mass, OMC	v1 (C)
D060503	Pitch Insert, T-Section	v1 (B)
D070032	T-Section, Upper Mass, OMC	v1 (B)
D060416	OSEM MAGNET SPACER AND FLAG CONCEPT	H
D060418	Magnet Retainer	H
D060401	Magnetic Plug	G
D060400	OSEM Magnet Flag	G
D020482	Screwdrive System	v1 (A)
D070031	Lower Blade Clamp Upper Side	v1 (B)
D080019	Lower Blade	C
D020308	Lower Blade Clamp Lower Side	v1 (B)
D070045	Lower Blade Cover, OMC	v1 (A)
D070020	Magnet Holder, OMC	v1 (A)
D060537	LOWER WIRE ASSEMBLY	A
D020132	Lower Blade Wire Clamp	v1 (C)
D020133	Lower Blade Wire Clamp Plate	v1 (B)
D070070	Wire Clamp for Optical Bench	v1 (B)
D070213	Wire Clamp for Optical Bench	v1 (A)
D070068	C Spacer Located Between Glass Bench and Wire Clamp	v1 (C)
D060488	OPTICS BENCH ASSEMBLY	



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NUMBER	DESCRIPTION	REVISION	
D080163	OMC CROSSBAR ASSEMBLY	A	
D080164	OMC Crossbar Base Plate	v1 (A)	
D080165	OMC Crossbar Side Plate	v1 (A)	
D070049	Earthquake Bracket Top	v1 (B)	
D0900897	EARTHQUAKE STOP ASSEMBLY	v1	
D0900906	Earthquake Stop Adjuster and Mount	v1	
D0900702	Fluoroelastomer Earthquake Stop Tip	v1	
D070484	Earthquake Bracket Side Alternate	v1 (B)	
D070050	Earthquake Bracket Bottom	v1 (B)	
D070035	METAL BENCH ASSEMBLY	C	
D070027	Metal Dummy Optical Bench	v1 (C)	
D020350	Upper Mass 100g Add On Mass	v1 (B)	
D020351	Upper Mass 50g Add On Mass	v1 (B)	
D030078	Upper Mass 20g Add On Mass	v1 (B)	
D070249	JIG ASSEMBLY, LOWER WIRES	B	
D070250	OMC Lower Wire Jig Bar	v1 (C)	
D020376	Wire Start Grooved Clamp	A	
D020380	Wire Start Clamp Upper	A	
D980184	LOS Clamp, Long	v1	
D020159	Lower Blade Wire Jig (Intermediate Wires)	A	
D070069	Interface to Wire Jig for D070067	A	
D070248	OMC Interface for Wire Jig	A	
D070139	UPPER WIRE JIG ASSEMBLY	v1 (C)	
D080121	Bar Jig for Upper Wires	A	
D020440	Upper Wire Height Balance	A	
D020540	Wire Start Matched Height (Grooved Clamp)	A	
D020380	Wire Start Clamp Upper	A	
D980184	LOS Clamp Long	v1	
D070023	Wire Jig Attachment, Upper Blade Wire Clamp	A	
D070038	Bar Jig Step Plate	B	
D070556	UPPER BLADE BAKING FIXTURE	v1 (B)	
D070557	Base Plate	A	
D070558	Side Support	A	
D070559	Top Bridge	A	
D080014	Glass OMC Counterbalance Mass	A	
D080015	Counterbalance Add On Mass, 20g, OMC	A	
D0900643	LIFTING JACK ASSEMBLY, OUTPUT MODE CLEANER	v1	
D0900589	Slide Plate, Lifting Jack	v1	
D0900591	Support Tab, Lifting Jack	v1	
D0900593	Stop Sleeve, Lifting Jack	v1	