



California Institute of Technology  
Massachusetts Institute of Technology

DCN No. E060057 - 00 - D

Sheet 1 OF 3

# Document Change Notice (DCN)

DCC #	DESCRIPTION	(FROM	TO)	REV
E060059	DRAWING TREE	00	A	
<del>E030058-00</del>	<del>MATERIALS LIST (BOM)</del>	<del>00</del>	<del>A</del>	
D040401	A-LIGO SUS CPTYPE ETM SUS ASSEMBLY & ASSEMBLY FIXTURES	16	A	
D040400	Advanced LIGO C PTYPE ETM Assembly	A	A1	

DRAWINGS CONTINUED ON SHEET 2 and 3

Existing related documents, not released by this DCN, are indicated by a ~~strike-through line~~.

**NOTE: - 1) The reason some parts have A1, A2 or even a B is a direct consequence of using the PDMWorks vault to host revisions. (A revisions are also included.)**

**2) Not all drawings from E060059 are released as part of this DCN as they are controlled by other engineers.**

CHANGE DESCRIPTION (FROM / TO):

**OTHER NOTES:** Please reference the following technical notes: -  
Overall Assembly Procedure LIGO-T060039

REASON FOR CHANGE: As built configuration release

ACTION:  Incorporate Change  Attach DCN to Drawings  Other Action (specify):

**DISPOSITION OF HARDWARE (IDENTIFY SERIAL NUMBERS)**

- No hardware was affected (record change only):
- List S/Ns which comply already:
- List S/Ns to be reworked/scrapped:
- List S/N's to be built with this change:
- List S/Ns to be retested per this change:
- 

DCN DISTRIBUTION

Barish	Coyne	Fritschel
Giaime	Lazzarini	Lindquist
Raab	Shoemaker	Sibley
Sigg	Tyler	Weiss
Whitcomb	Worden	Hough
Cantley	Greenhalgh	
N. Robertson	Strain	

SAFETY, COST, SCHEDULE, REQUIREMENTS IMPACT?  NO  YES (If YES, enter CR (CCB) or TCP (TRB) #)

APPROVALS:	DATE	OTHER APPROVALS (SPECIFY)	DATE
ORIGINATOR: Calum I. Torrie	24 <sup>th</sup> March	( ):	
TASK LEADER (JHR):	30 <sup>th</sup> Mar-06	( ):	
GROUP LEADER (DC):			

DCC RELEASE:



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DCN No. E060057 - 00 - D

Sheet 2 OF 3

DCC #	DESCRIPTION	REV	(FROM TO)
D040524	UPPER STRUCTURE WITH NON SUSPENDED ITEMS	20	A
D040524	UPPER STRUCTURE WITH NON SUSPENDED ITEMS	A	A1
D050329	TOP BLADE WIRE CLAMP ASSEMBLY FOR DOUBLE CLAMP & PIN	02	A
D050328	WIRE CLAMP BODY CPAD	02	A
D040383	TOP WIRE BREAK-OFF - MAIN BODY	02	A
D040514	ETM UPPER STRUCTURE ASSEMBLY	00	A
D040514	ETM UPPER STRUCTURE ASSEMBLY	A	B
D060093	SUS ETM INTERFACE RING ASSEMBLY TD 1039 410	00	A
D060072	INTERFACE BLOCK	00	A
D050178	DOG CLAMP ALT LARGE (3/18 1-6 SHCS)	00	A
D060052	QUAD PUSHERS	00	A
D060053	QUAD MOVERS	00	A
D040170	ASSEMBLY COIL FORMER AND ASSOCIATED PARTS	00	A
D030703	COIL FORMER BRACKET	01	A
D030712	COIL FORMER CLAMP	02	A
D050201	INTERFACE J NUT	06	A
D050044	LOWER STR ANGLED LONG FRONT STRAP	15	A
D050045	LOWER STR ANGLED TRANSVERSE SIDE STRAP	13	A
D040516	ETM LOWER STR ASSEMBLY RIG	02	A
D040516	ETM LOWER STR ASSEMBLY RIG	A	A1
D050040	ETM LOWER STRUCTURE SINGLE CATCHER	--	A
D050090	INNER FACEPLATE	02	A
D050090	INNER FACEPLATE	A	A1
D050035	FACEPLATE	02	A
D050035	FACEPLATE	A	A1
D050036	MASS SUPPORT STRUT	05	A
D050038	LOWER STR FACEPLATE CONNECTOR	06	A
D050053	Teflon Bearing Pad	03	A
D050213	PFA 440HP BEARING PAD FOR ASSEMBLY	--	A
D050213	PFA 440HP BEARING PAD FOR ASSEMBLY	A	A3
D050195	FACE STOP	03	A
D050188	LOWER STRUCTURE TOP E-STOPS	04	A
D050041	LONG. ANGLED V STRAP	06	A
D050042	LOWER STR LONG ZED STRAPS	11	A
D050043	ETM LOWER STR LONG. SIDE STRAP	09	A
D050240	TIE FOR ANGLED TRANS SIDE STRAP	02	A
D050050	LONGITUDINAL CROSS STRUT	15	A
D050051	SIDE PLATE FOR SAFETY STOPS	10	A
D050047	ETM LOWER STRUCTURE TOP FLANGE PLATE	15	A
D050203	UI MASS TOP SAFETY STOPS VERTICAL	07	A
D050236	UI MASS TOP SAFETY STOPS VERTICAL	04	A
D050237	UI MASS STOP BETWEEN CHAIN	02	A
D050247	SPACER FOR BETWEEN THE LOWER CHAINS	02	A
D040038	TEST MASS ASSEMBLY	10	A
D040038	TEST MASS ASSEMBLY	A	A3
D040036	MAIN BODY TEST MASS	07	A
D040043	TWO WIRE BREAK OFF ASSEMBLY	06	A
D040045	WIRE BREAK OFF	05	A
D040325	MAIN SECTION BUNG	04	A
D040132	PENULTIMATE MASS ASSEMBLY	07	A
D040136	MAIN BODY PEN MASS	07	A



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**Sheet 3 OF 3**

<b>DCC #</b>	<b>DESCRIPTION</b>	<b>REV (FROM TO)</b>	
D040037	INSERTS	05	A
D040135	FACE PLATE	07	A
D040421	TWO WIRE BREAK OFF ASSEMBLY PEN MASS	05	A
D040420	PEN MASS WIRE BREAK OFF & CLAMP	06	A
D040397	ASSEMBLY MAGNET FLAG & HEX SPACER	07	A
D040398	HEX MAGNET SPACER	07	A
<del>D050338</del>	<del>ETM MAIN CHAIN MASS BUNG ASSEMBLY</del>		<del>A</del>
D050338	MAIN CHAIN PEN MASS BUNG INSERT	--	A
<del>D040450</del>	<del>T PIECE ROLL ADJUSTER MASS</del>		<del>A</del>
D040161	REACTION MASS ASSEMBLY	04	A
D040164	MAIN BODY REACTION TEST MASS	04	A
D040445	WIRE BREAK OFF	05	A
D040046	FACE PLATE	06	A
D040422	REACTION TEST MASS BUNG INSERT	04	A
D040052	GLASS FACE PLATE (ALT)	06	A
D040142	PEN REACTION MASS ASSEMBLY	06	A
D040143	PEN REACTION MASS MAIN SECTION	01	A
D040044	WIRE BREAK OFF PLATE	05	A
D040185	REMOVALBE BACK FACE PLATE	01	A
D040145	PEN REACTION MASS REMOVABLE FACE PLATE	01	A
D040171	REMOVABLE BASE CYLINDER	01	A
D040186	ADJUSTABLE CYLINDER FOR PITCH	02	A

Also covered by this DCN: -

<b>DCC #</b>	<b>DESCRIPTION</b>	<b>REV (FROM TO)</b>	
D060095	ALT CLAMP ASSEMBLY FOR UI MASS	01	A
D050333	WIRE CLAMP MAIN BODY	00	A
D050334	WIRE CLAMP PLATE	00	A
D040380	TOP MASS TOP WIRE CLAMP AND PITCH ADJUSTER	A	B
D040381	TOP MASS TOP WIRE BREAK OFF	A5	B
D040382	TOP MASS TOP WIRE BREAK OFF PLATE	A3	B

These sub-assemblies are part of an assembly released by M. Perreux-Lloyd, D040370 and D040360 respectively.

~~D040380-A is covered in DCN E050063.~~