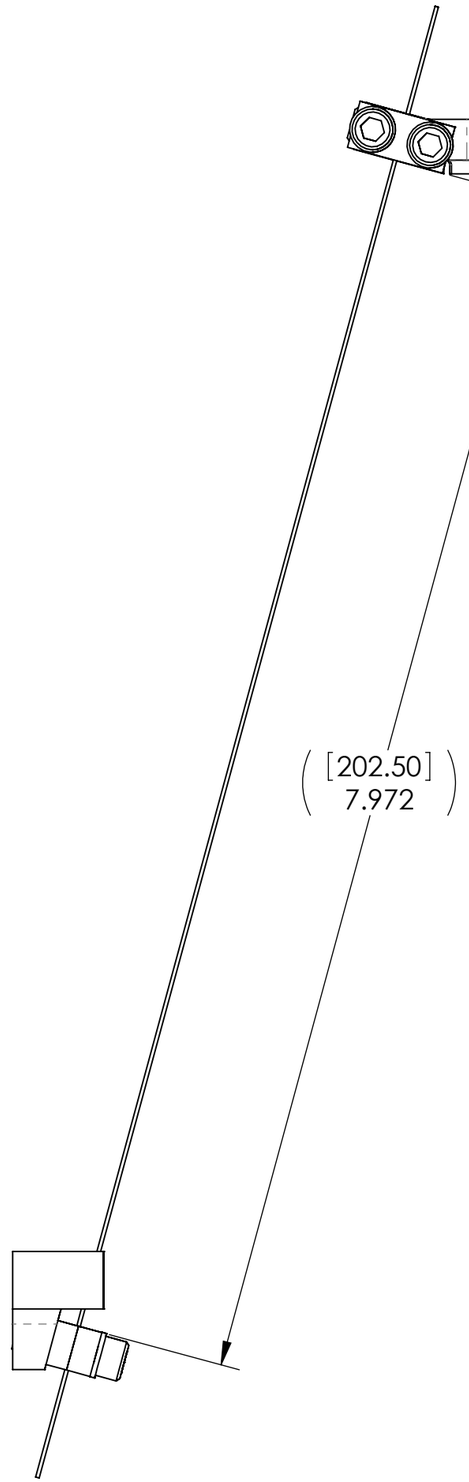
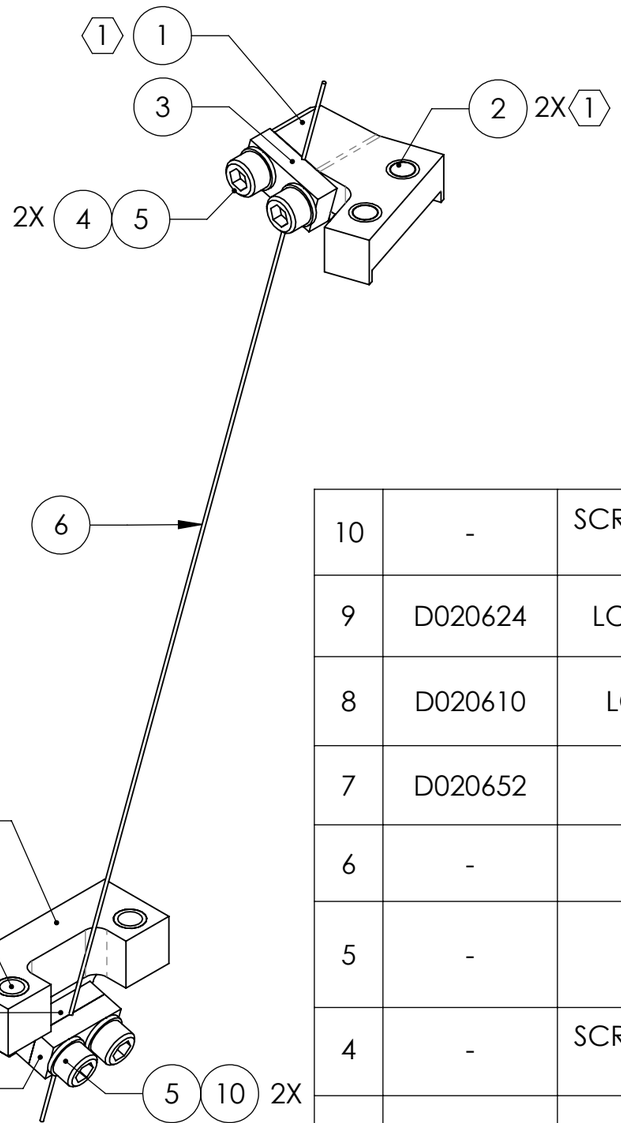
REV.	DATE	DCN #	DRAWING TREE #
v1	26 MAY 2009	E0900160	E080191
v2	09 DEC 2010	E1000849	E080191
v3	24 OCT 2011	E1101053	E080191





ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ	SPARE	TOTAL
10	-	SCREW, SOCKET HEAD CAP, #8-32 UNC-2A X 0.5625 LONG	300 SSTL	2	1	3
9	D020624	LOWER CLAMP, UPPER WIRE, OUTSIDE	304, 316 OR 302 SSTL	1	0	1
8	D020610	LOWER CLAMP, UPPER WIRE, INSIDE	304, 316 OR 302 SSTL	1	0	1
7	D020652	C-CLAMP, UPPER MASS ⟨1⟩	6061-T6 Al	1	0	1
6	-	UPPER WIRE (∅ 0.024)	STEEL MUSIC WIRE	A/R	0	0
5	-	WASHER, FLAT, VENTED, #8 (U-C COMPONENTS P/N WFV-08 OR EQUIVALENT)	300 SSTL	4	1	5
4	-	SCREW, SOCKET HEAD CAP, #8-32 UNC-2A X 0.5 LONG	Ag-PLATED 300 SSTL	2	1	3
3	D070341	UPPER CLAMP, UPPER WIRE, OUTSIDE	304, 316 OR 302 SSTL	1	0	1
2	1185-2EN246	HELICOIL, #8-32 X 0.246 LONG ⟨1⟩	NITRONIC 60	6	4	10
1	D020611	UPPER CLAMP, UPPER WIRE, INSIDE ⟨1⟩	304, 316 OR 302 SSTL	1	0	1

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES [MM]

TOLERANCES:
.XX ± .01
.XXX ± .005

ANGULAR ± 0.5°

⟨1⟩ HELICOILS TO BE INSTALLED INTO ITEM NO. 1 AND ITEM NO. 7 BY LIGO PRIOR TO ASSEMBLY AND AFTER ALL PARTS ARE CLEANED AND BAKED.
2. PARTS TO BE ASSEMBLED ACCORDING TO E080208 HLTS ASSEMBLY SPECIFICATION, USING D0900594 HLTS UPPER WIRE JIG.
3. MASS TO SUSPEND DURING ASSEMBLY: 18.252 kg.

MATERIAL: N/A
FINISH: N/A µinch

LIGO — CALIFORNIA INSTITUTE OF TECHNOLOGY, MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM: ADVANCED LIGO
SUB-SYSTEM: SUS
NEXT ASSY: HLTS SUSPENSION ASSY

PART NAME: UPPER WIRE ASSEMBLY

DESIGNER	D. BRIDGES	27 MAY 2009	
DRAFTER	D. BRIDGES	21 OCT 2011	
CHECKER	B. MOORE	24 OCT 2011	
APPROVAL			

SIZE: B — DWG. NO.: D070340 — REV.: v3

SCALE: 1:1 — PROJECTION: — SHEET 1 OF 1

D070340_Advanced_LIGO_SUS_HLTS_Upper_Wire_Assembly, PART PDM REV: V2-000, DRAWING PDM REV: V2-002