



REV	DATE	DRWN BY	CHECKED	DOC	DESCRIPTION
A	7-28-97	J.Hazel			E970121/INITIAL RELEASE

QNTY	PART NUMBER	DISCRIPTION	ITEM NO.
		∅.0017*±.0001*STEEL MUSIC WIRE	29
4	1/4	SST WASHER, REDUCED OD	28
4	1/4	SST LOCK WASHER	27
4	1/4-20x1.25L	SST SOC HD CAP SCREW	26
20	1/4-20 X.75L	SST SOC HD CAP SCREW	25
8	4-40 X.50 LG	SST SOC HD CAP SCREW	24
4	4-40 X.38 LG	SST SOC HD CAP SCREW	23
5	84985A999	SST SPRING PLUNGER, 10-32 .75-2.5 LBS, McMASTER P/N	22
4	D970311	SAFETY STOP, CONDUCTIVE	20
4	D970312	SAFETY STOP, CONDUCTIVE, SMALL	19
6	D960501	MAGNET	18
1	D970188	GUIDE ROD	17
2	D970187	WIRE STANDOFF	16
5	D960011	SENSOR/ACTUATOR ASSEMBLY	15
1		OPTIC	14
2	D970313	SAFETY STOP, CONDUCTIVE, LONG	13
6	D970075	DUMBBELL STANDOFF	12
1	D960009	STIFFENER PLATE	11
2	D960134	CLAMP, SUSPENSION BLOCK	10
1	1205308-1	WIRE CLAMP	9
1	D960008-2	LOWER CLAMP, OPPOSITE	8
1	D960008-1	LOWER CLAMP	7
1	D960007	UPPER MIRROR CLAMP	6
1	D960006	LEFT SIDE PLATE	5
1	D960005	RIGHT SIDE PLATE	4
1	D960004	TOWER BASE	3
1	D960003	SUSPENSION BLOCK	2
2	D960002	SENSOR/ACTUATOR PLATE	1

DRWN J. Hazel 12-29-95  
CHK

LIGO PROJECT  
CALIFORNIA INSTITUTE OF TECHNOLOGY  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SMALL OPTIC SUSPENSION ASSEMBLY  
SCALE: 1/2  
DRAWING NUMBER: D960001-A-D  
SHEET 1 OF 2

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. TORQUE THE SCREWS THAT HOLD THE SIDE PLATES TO THE TOWER BASE AND THE SUSPENSION BLOCK TO 100 IN LB.
2. TORQUE THE SCREWS THAT HOLD THE STIFFENER PLATE TO THE SIDE PLATES TO 100 IN LB.
3. REFER TO E970037-00-D FOR THE ASSEMBLY AND OPTIC HANGING PROCEDURE. THIS PROCEDURE ALSO DETAILS THE USE OF THE FIXTURES, THE CLEANING AND BAKING PROCEDURES, THE QUALITY ASSURANCE REQUIREMENTS AND THE IDENTIFICATION REQUIREMENTS.

REF	D960012	SENSOR/ACTUATOR HEAD	
REF	D961412	SET SCREW TOOL	
REF	D960016	MICROSCOPE BUSHING	47
REF	D970314	WINCH ADAPTER PLATE,SOS	46
REF	D970074	MAGNET-TO-DUMBBELL STANDOFF FIXTURE	45
REF	D970180	WINCH FIXTURE	44
REF	D960022	GUIDE ROD FIXTURE	43
REF	D960017	BASE PLATE	42
REF	D970066	RIGHT BLOCK, TOP	41
REF	D960018	LEFT BLOCK, TOP	40
REF	D960020	MAGNET/STANDOFF ASSEMBLY FIXTURE	39
REF	D960013	CONNECTOR BRACKET, SOS SUSPENSION	38
REF	D960159	SOS DUMMY MASS	37
REF	D970084	CONNECTOR BRACKET ASSY	36
ALT		10-32 x .75 SOC HEAD SET SCREW	22
ALT	D970181	BRACKET, SOS OPTIC CLEANING	6
QNTY	PART NUMBER	DISCRIPTION	ITEM NO.

DRWN	12-29-95	LIGO PROJECT	SMALL OPTIC SUSPENSION ASSEMBLY	
CHK			SCALE:	DRAWING NUMBER
		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	1/2	D960001-A-D
				SHEET 2 of 2