

PACKING SLIP

SHIPMENT FROM:

Janeen Romie
Suspension Group
California Institute of Technology
Pasadena, CA

SHIPMENT TO:

David Ottaway
LASTI Leader
Massachusetts Institute of
Technology
Cambridge, MA

Shipment Date: June 2, 2004**Packing slip Document No.: E040282-00-D****Shipment Contents: Advanced LIGO Triple Pendulum Controls Prototype
Mode Cleaner Suspension****Notes:**

- 1) **There are two green transit cases. One holds the assembled suspension. The other holds associated parts, assembly and installation equipment. A table of the contents for both boxes is attached.**
- 2) **A number of parts need to be returned to Caltech or LHO. Please send Caltech returns to Janeen Romie and LHO returns to Doug Cook. The projected return date is included in the table along with the return location information.**
- 3) **The osems – hybrid and LIGO 1 style for local and global controls – are being sent separately, due to their fragility. Spare magnet/flag assemblies to be used with the hybrid osems are also being sent separately. The box(es) that will hold this equipment should arrive at MIT on or before June 14th. Additional equipment, including 2 pitch adjusters will be sent in this box.**
- 4) **If anything arrives broken, please report this to Janeen Romie (626-395-8445), Calum Torrie (626-395-3303) or Helena Armandula (626-395-2070). If anything breaks during assembly or installation, please contact those folks too, to facilitate spare part/equipment or a repair.**
- 5) **X Stiffeners, p/ns D020422 and D020425, are included. They are only used to stiffen the structure and will probably not be required for the LASTI work. However, just in case, we included them.**
- 6) **Wire for the upper blades is being sent directly from California Fine Wire in Grover Beach, CA to Laurent Ruet. Please send the packing slip back to Janeen Romie. The jig for this wire is in the green transit case.**

7) All items have not been shipped. For example, the library of clamps, along with the 0.008” dia wire, the blade deflection jibs and other items are still here at Caltech. If they are needed, please call Calum and he’ll arrange to have them sent ASAP. They are cleaned and ready for shipment if they are found to be required.

ITEM NO.	DESCRIPTION	DRAWING NO./PART NO.	QTY	CLASS	RETURN TO	RETURN DATE
1	Mode Cleaner Suspension	D020700	1	A		
2	Blade eddy current damper assemblies, with magnet assys		2	A		
3	Cable clamp parts for clamps for cables from optical table to chamber feedthrough & fluorel liners – screws are separate			A		
4	Lifting lever and hardware	D040281		B	LHO	Sept 15
5	Teflon highway		3	B		
6	Beam target – 5.5” from table to beam.	D040282	1	B		
7	Brass pushers	D040283		B	LHO	Sept 15
8	Washers, .42” dia x .82” OD, metal			B		
9	Lower wire jig with clamps	D020162 D980184	1 2	B A		
10	Magnet grippers (brass plungers)		4	B	CIT	Sept 15
11	.006” dia music wire		Spool	-		
12	Magnet ring fixture for lower masses		1	B	CIT	Sept 15
13	Winch assembly		1	A		
14	Vac Seal epoxy adhesive		4			
15	Side X Stiffener	D020422	2	A		
16	Front X Stiffener	D020425	2	A		
17	Initial Catcher Assembly	D020458	1	A	CIT	Sept 15
18	Tablecloth & Upper Mass Jig	D040259	1	A		
19	Dog Clamps	D980184	20	A		
20	Copper Vac Seal applicator		1	B		
21	Clamp –wire – clamp assembly for small blades		2	A		
22	Spare optic insert for metal test mass		1	-		
23	Spare dumbbell and magnet assemblies for penultimate and			A		

	test mass					
24	Circular blade stops for lower blades		2	A		
25	Blade guard and Legs	D020236 D030198	1 3	A A		
26	Upper Wire Jig and Clamps		1 2	B A		
27	Pusher assemblies, for pushing structure on optical table			B		
28	Teflon Blocks, to be used with Teflon Highway	D040285	4	B		
29	Plus and minus masses for vertical adjustment (see T030125, T030135, T030147)			A		
30						
31						