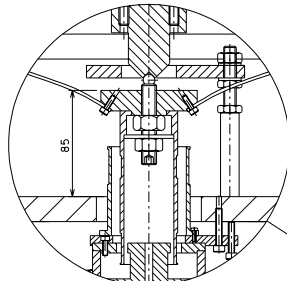
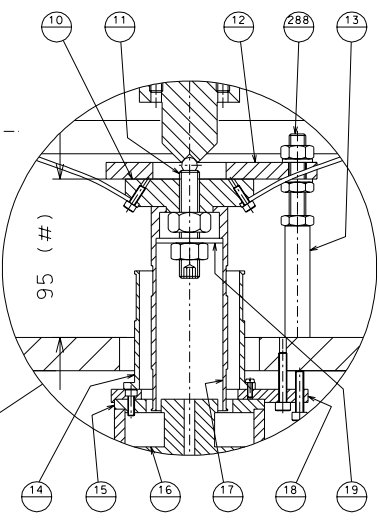
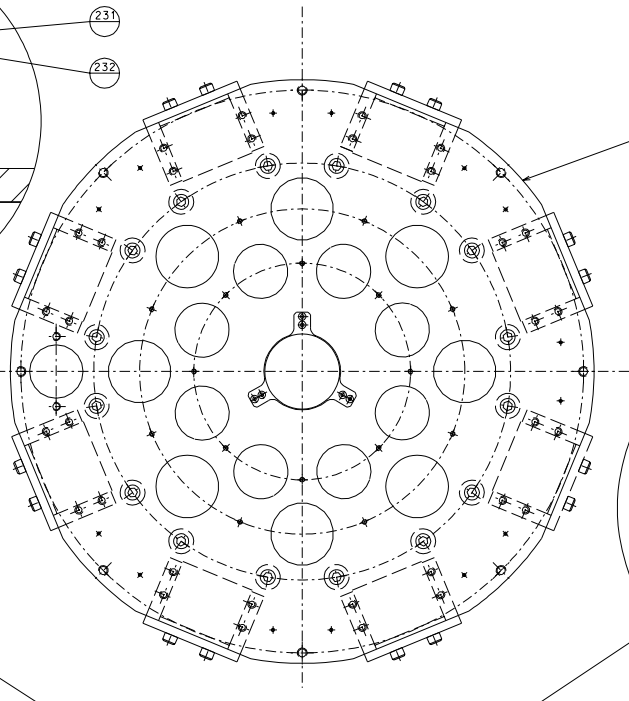


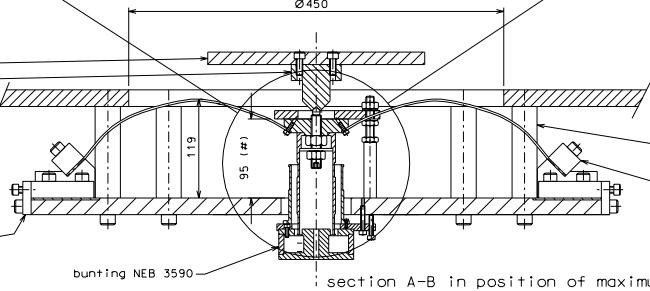
lower end point 75
section B-B



working point 85



maximum height 95

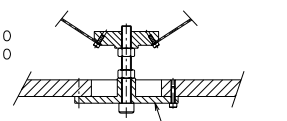


bunting NEB 3590

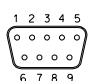
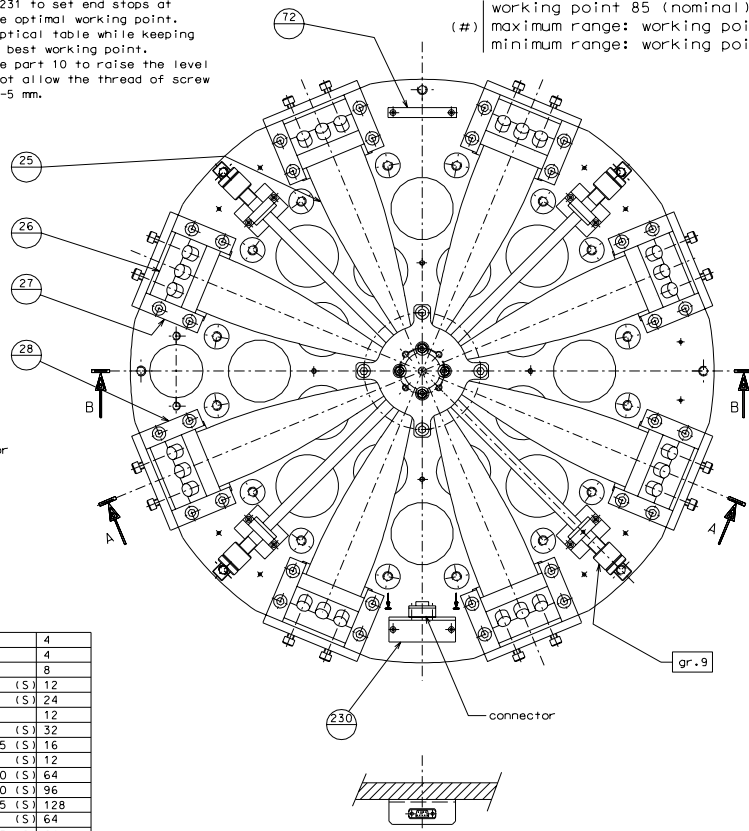
section A-B in position of maximum height

Tune nuts on studs 288 and 231 to set end stops at +/- 10mm above and below the optimal working point. Use screw 11 to float the optical table while keeping all four GAS filters at its best working point. Do not extend screw 11 above part 10 to raise the level of the optical table. Do not allow the thread of screw 11 to stick out more than 3-5 mm.

(#) working point 85 (nominal)
maximum range: working point +10
minimum range: working point -10



Mounting tool



Accu-Glass 9D-10400
9 pin sub-D male connector
on stand

Connection convention:
1: LVDT drive +
2: LVDT drive -
3: LVDT sense +
4: LVDT sense -
7: LVDT coil +
8-9: act. coil +
5: shields

Note: Press fit of 10 into 17 after wiring disassemble yoke 16 to reach screw. Use only special wrench to lock unlock nut.
Note: Mount connector on opposite side on half of the filters to allow for cabling from the side of the spring box

10-231	nut M6	4
13-288	nut M10	4
14-18	flat head M3x8 (S)	12
18-9	tommy head M5x30 (S)	24
18-15	tommy head M4x12	12
25-10	tommy head M4x12 (S)	32
12-13-9	tommy head M10x25 (S)	16
22-23	tommy head M8x20 (S)	12
9-20	tommy head M12x40 (S)	64
21-26	tommy head M10x40 (S)	96
27-28-9	tommy head M10x35 (S)	128
24-26	tommy head M8x20 (S)	64
24-9	tommy head M10x25 (S)	64
detail	type	n°piec.

Screw's table

modified part 13 and 231	02-10-06
modified clamp coil LVDT	30-09-06
modified part 230	06-07-06
modified working point blades	17-06-06

rev.	desc	date	signature
22	207 connection table	gr.9	167 balance
21	123 blade clamp plate	288	122 regulation rod
20	124 filter's struct. column	233	168 washer
19	124 washer	232	168 drilled screw
18	125 coil adjust. plate	231	168 spacer pipe
17	126 LVDT/act. coils	230	124 support connector
16	126 magnet yoke back	77	121 mounting tool
15	125 magnet yoke front	72	123 electrical conn. bar
14	125 LVDT coil	28	123 guide right
13	122 end-stop column	27	123 guide left
12	124 end-stop plate	26	123 blade clamp
11	124 central screw	25	120 GAS blade
10	168 blade central support	24	123 tuning pusher
9	121 filter main platform	23	122 connection nose

designed by: R.De Salvo
drawn by: G.Gennaro-PROMECC
date: 10-12-04
LIGO PROJECT
HAM-OPTICAL BENCH
FILTER GR. 1
LIGO-D051106-08-D
sheet: 1/3
A.1