



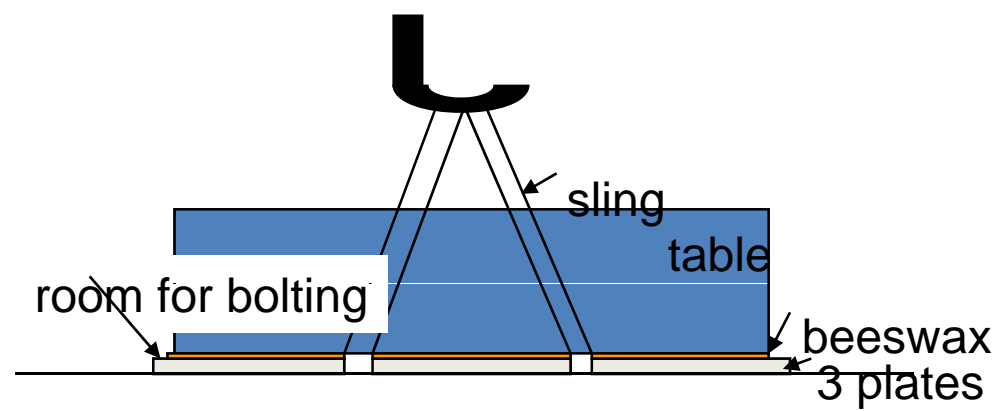
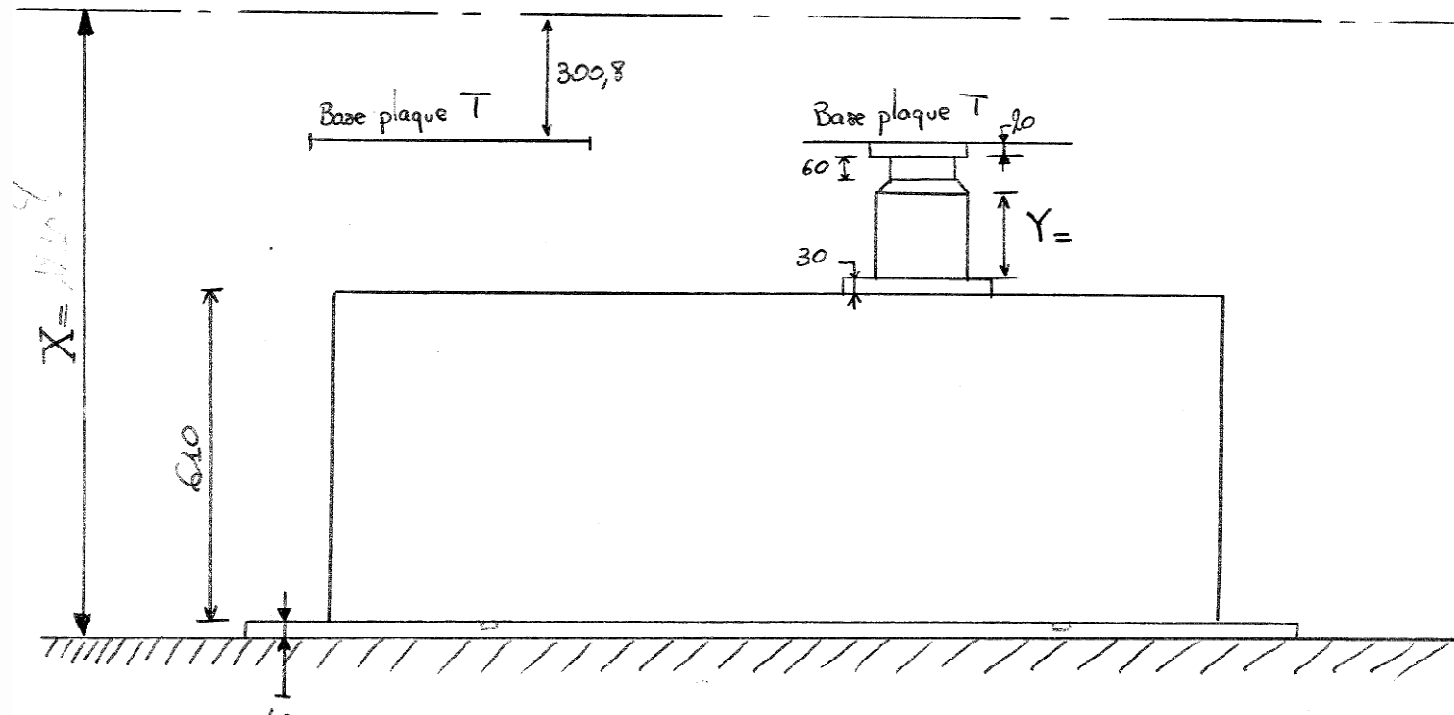
Laboratoire d'Annecy-le-Vieux
de Physique des Particules

FD status on September 24 2008

A.Jeremie, B.Bolzon, F.Peltier at KEK

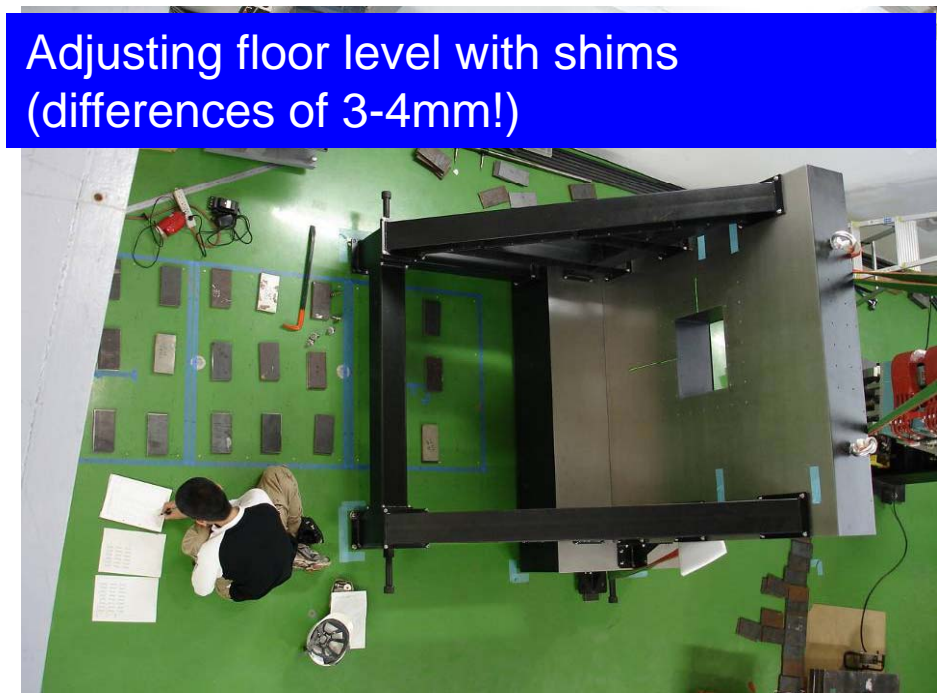
N.Geffroy, G.Gaillard, J-P.Baud at LAPP



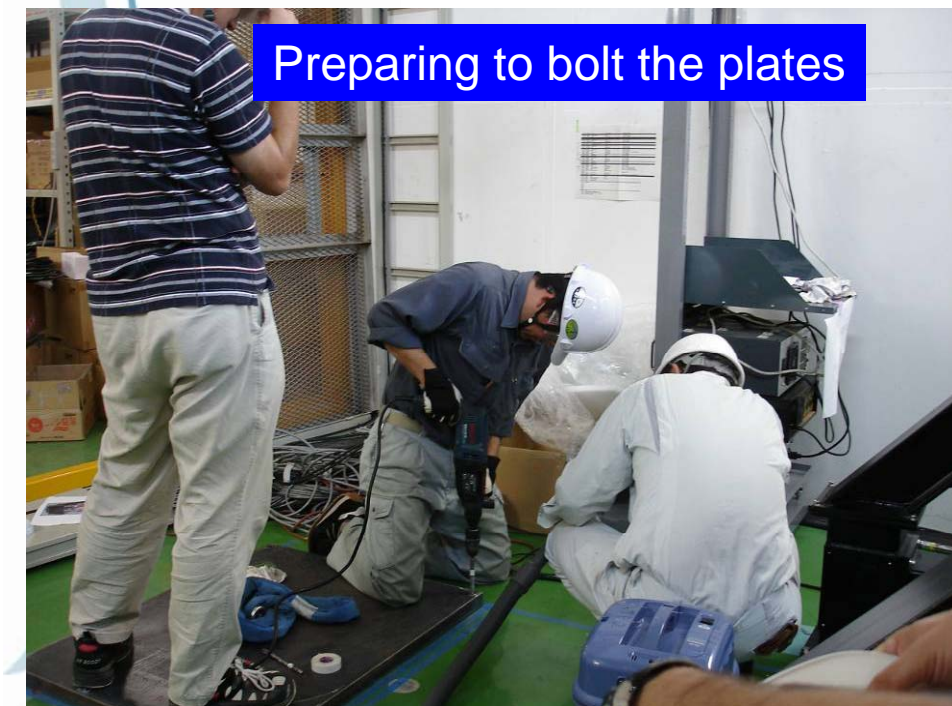




Unpacking



Adjusting floor level with shims
(differences of 3-4mm!)



Preparing to bolt the plates



Installing beeswax



Table comes down

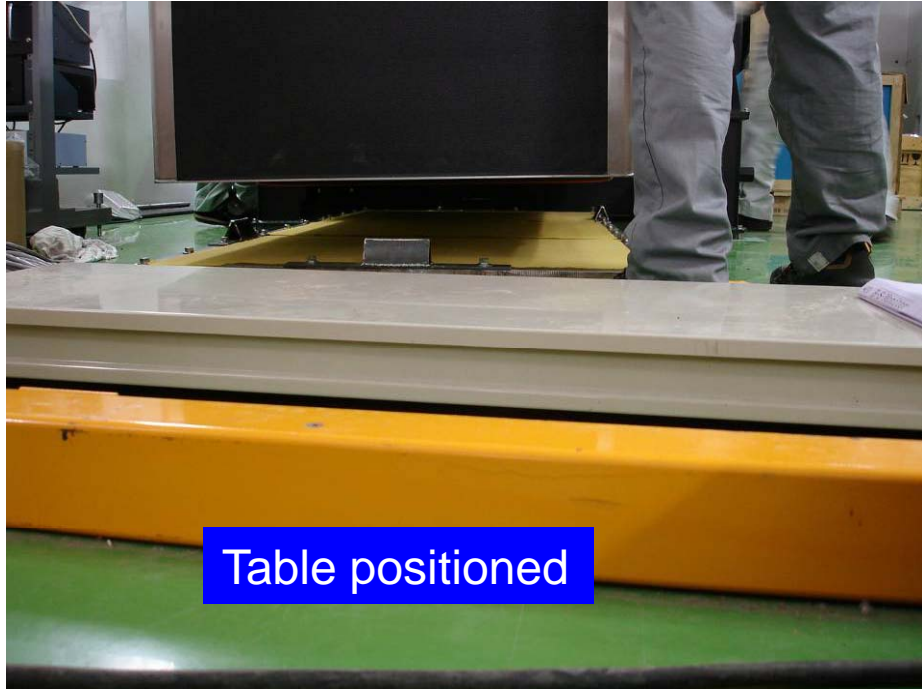


Table positioned



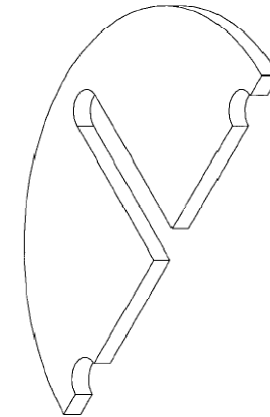
Shims ensure a levelled table



Installing "feet" and movers

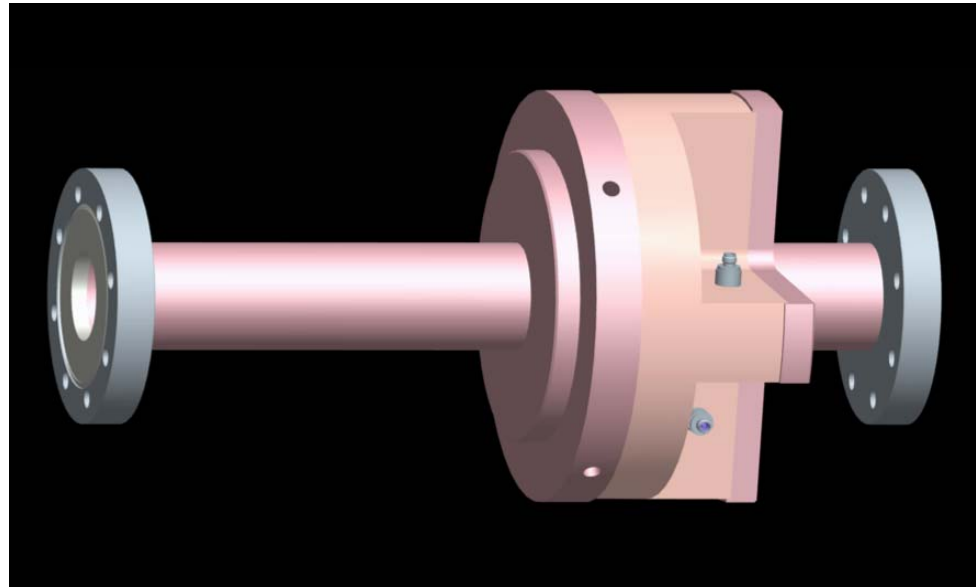


QD0 and QF1 adjusted in height with shims (smallest 0.05mm) with movers at “minimum” position (single cam flat on top and double cam with flats at 45°) plus 0.8mm

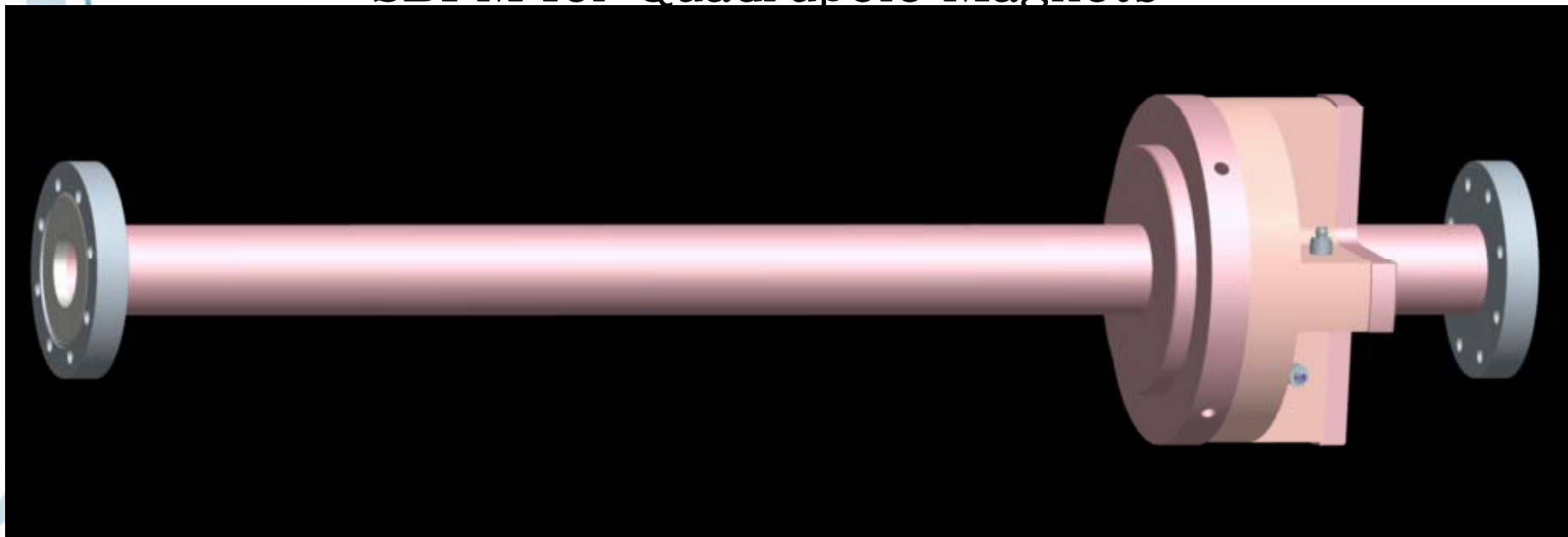


Quad poletips have been measured with micrometer (gauge blocks are still in the machine shop): globally OK within 0.02mm, but not sure if the two measurement results can be easily compared

SBPM for Sextupole
Magnets



SBPM for Quadrupole Magnets



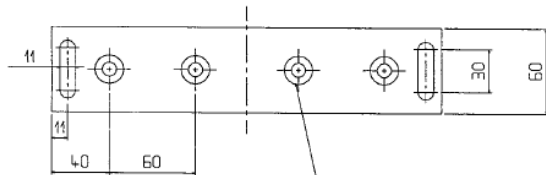
The beam chambers were brazed this way:



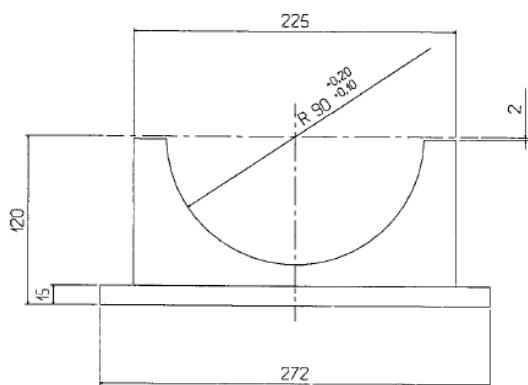
We checked with KEK, Korean and LAPP colleagues and the current BPM support still works (only one hole has to be elongated for the sextupoles)

However, the readout point will be farther away than initially planned (still need to make sure these numbers are correct):

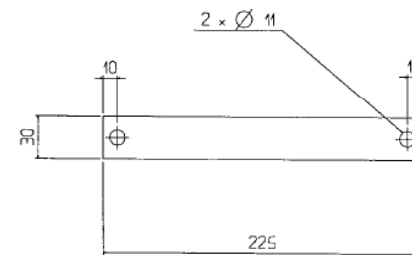
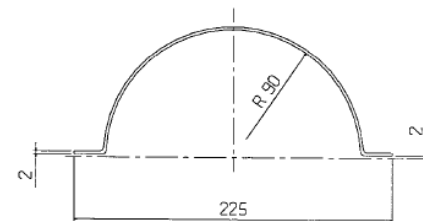
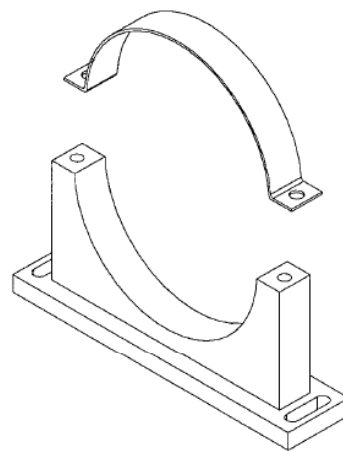
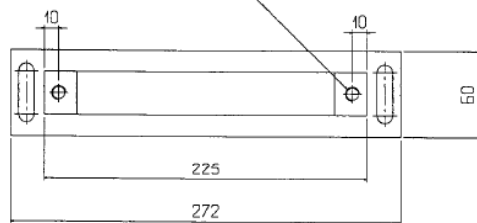
- Quadrupole: $25+12+68+10.5=115.5\text{mm}$ instead of 65mm
- Sextupole: $20+12+68+10.5=110.5\text{mm}$ instead of 45mm



4 vis F790 M10 long taraudage 15



2 x M10 prof de taraudage 15



4 brides fortal avec 4 colliers inox

N°	Description	Qty	Matériau	Code barre	Provenance
1	BRIDE A COLLIER	4	INOX		
2	COLLIER	4	INOX		
BRIDE A COLLIER					
LAPP - UNIFORME COMMETE - LE-010					
LAPP - 12, rue de la République - 92 125 - PARIS 16 ^e - France					

Still to be done

- Align Q in x-y, S in x-y-z
- Insert BPMs in magnets (open, insert, close, measure and adjust pole-tips...)
- Decide what support will go on the other end of BPM beam chamber
- Give the “mover team” the new LVDT positions : some needed to be moved because they didn't fit anymore! with new C- and V-blocks, V-plate
- Order new LVDTs (one “stuck”, one spare)

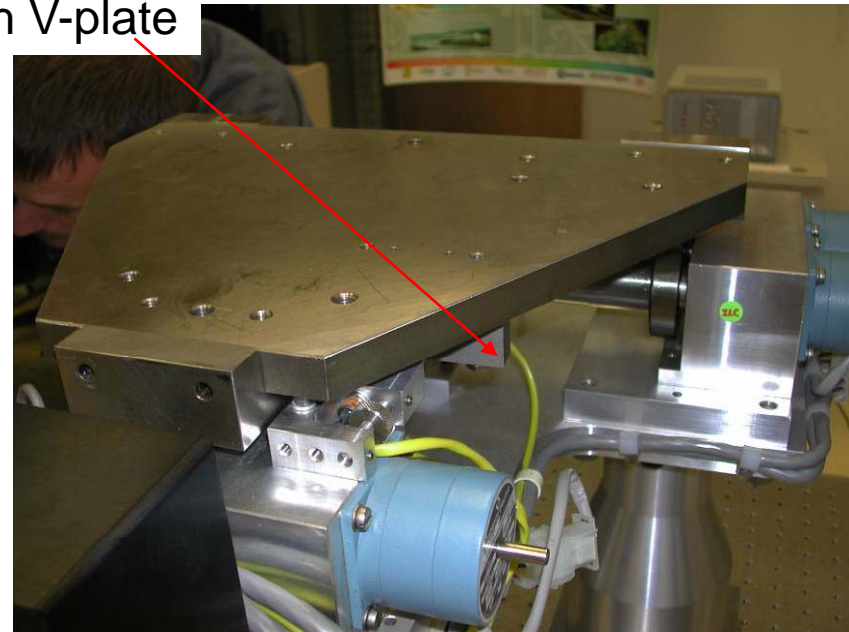
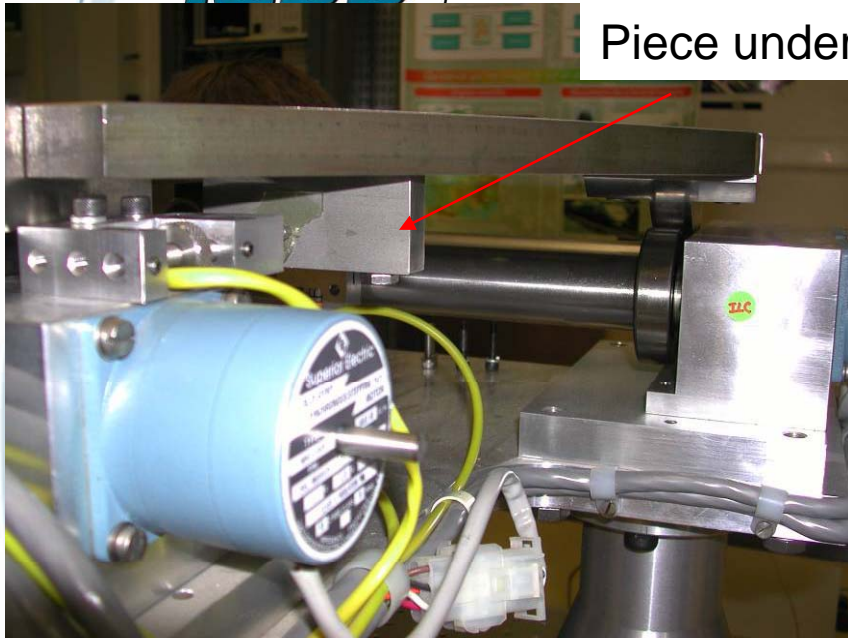
extra



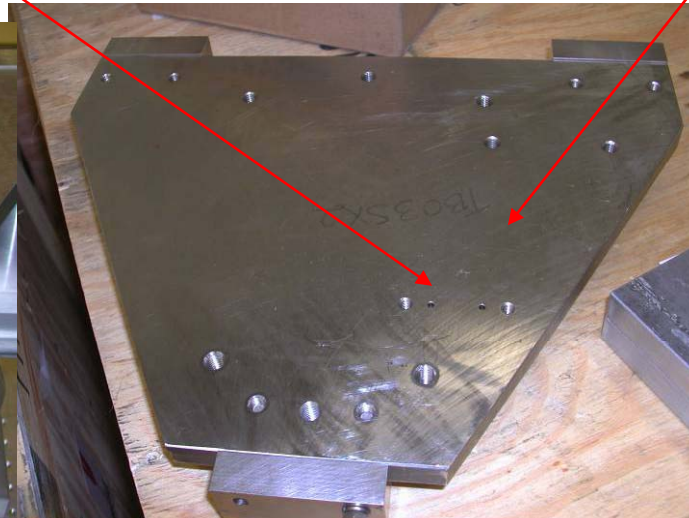
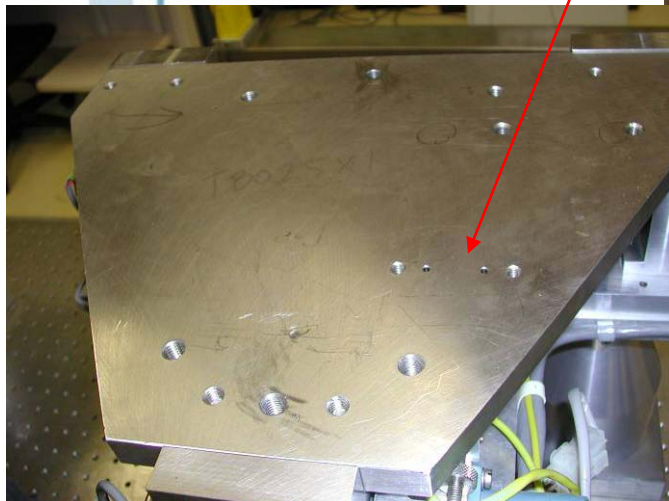
lapp.

Problem 1

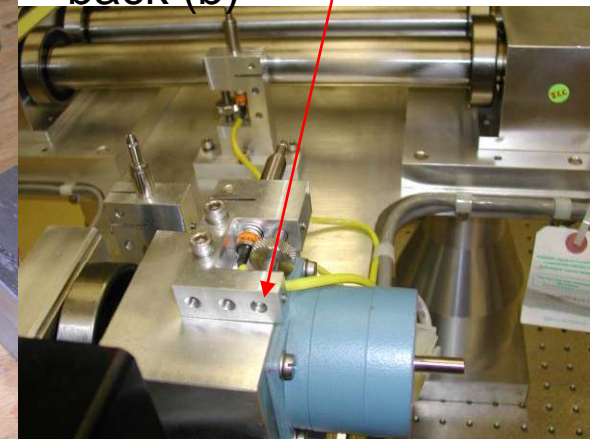
Piece underneath V-plate



Piece not at same position



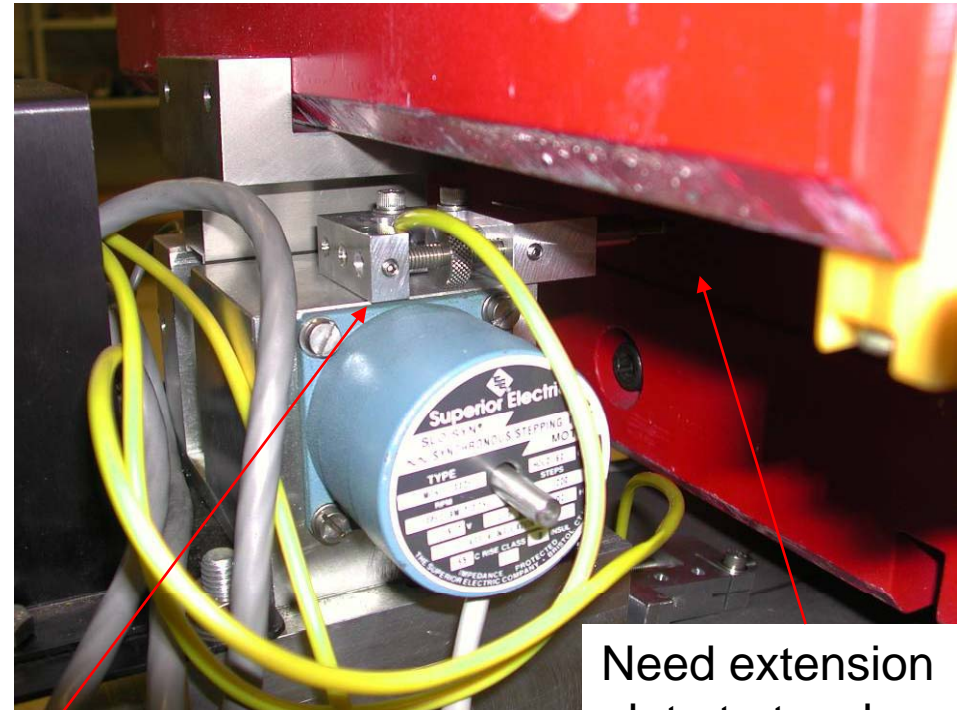
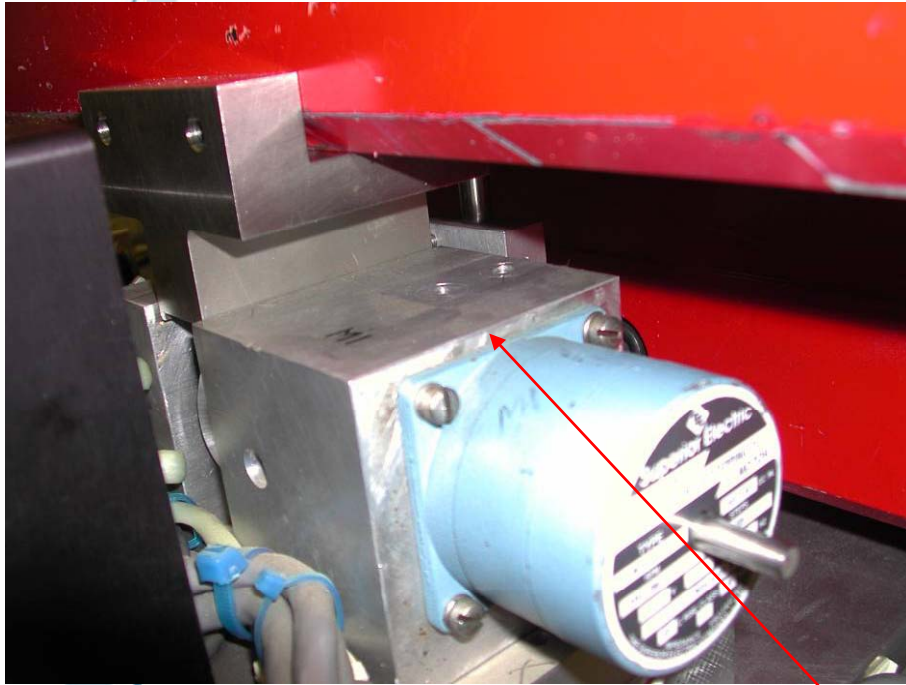
Drill new holes in V-plate (a) or move LVDT back (b)



Original large mover

Problem 2

New mover

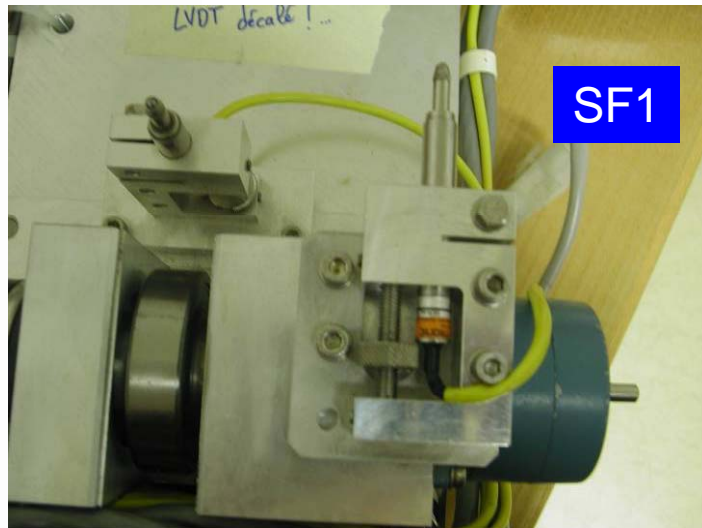
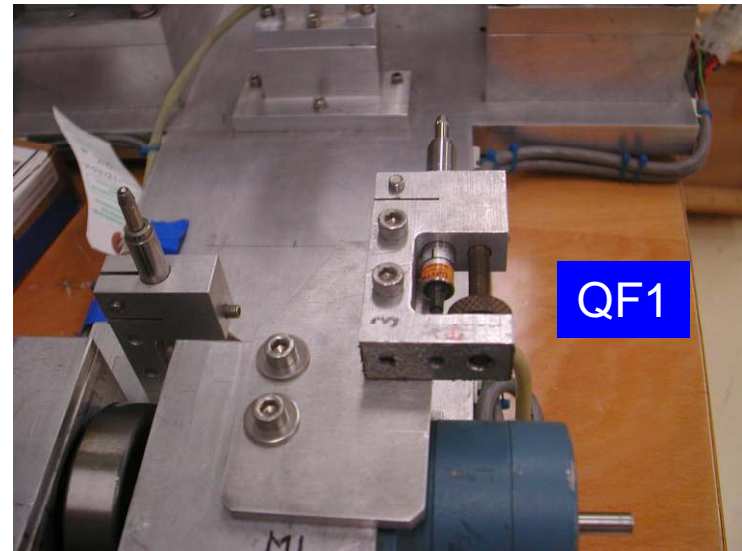
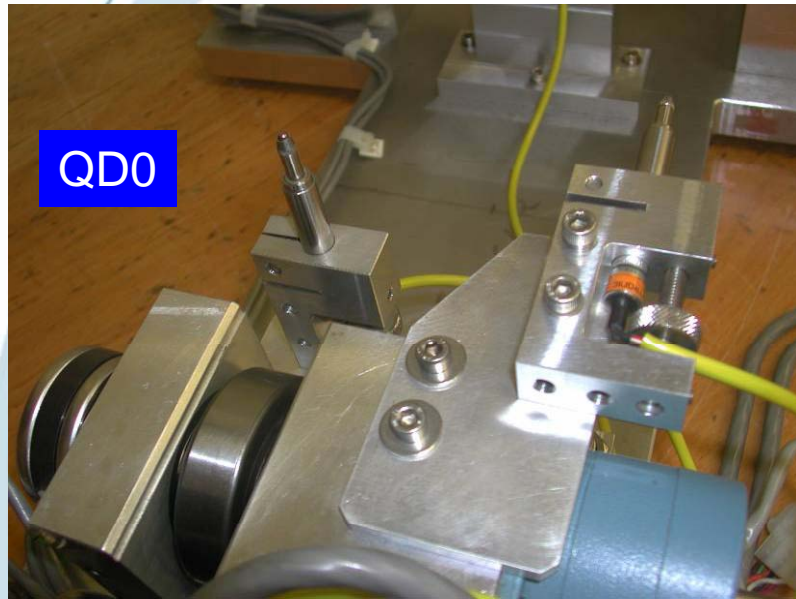


Need extension plate to touch the quad

Notice the 3mm difference in cam-motor position in block



LVDT with extension plate doesn't fit



Extra plates to fix the LVDT in such a way that it fits under the magnet (new C- and V-blocks) and on the special V-plate