

How is the rubbing motion altered on a Martindale?

Martindales can be set in three different ways to give different rubbing motions by changing the position of the drive pegs.

The top plate must be removed to access the drive pegs.

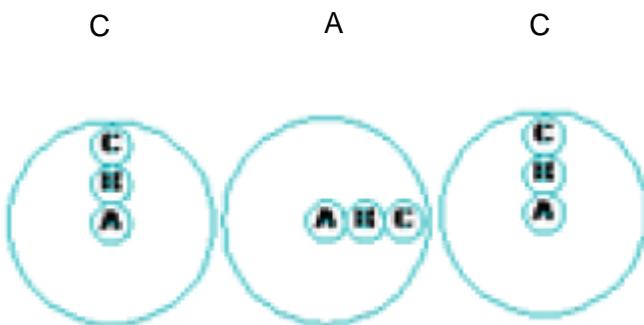
Top plates should be carefully lifted off the drive pegs and removed.

The 1309/1609 instruments top plates are in two pieces. The larger front section must be removed first, then the smaller back section.

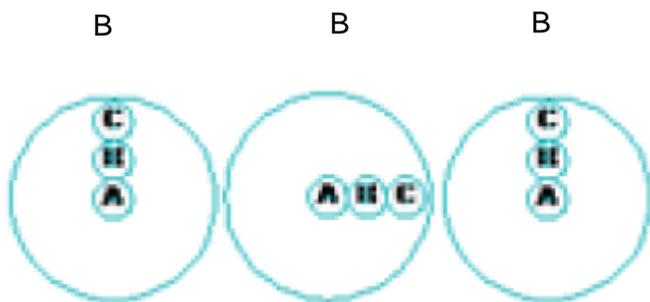
The drive pegs can then be accessed and placed in the appropriate position. The drive pegs may be greasy, so disposable gloves or some tissue may be useful.

The first motion option is a **straight line**. This is a very rare application.

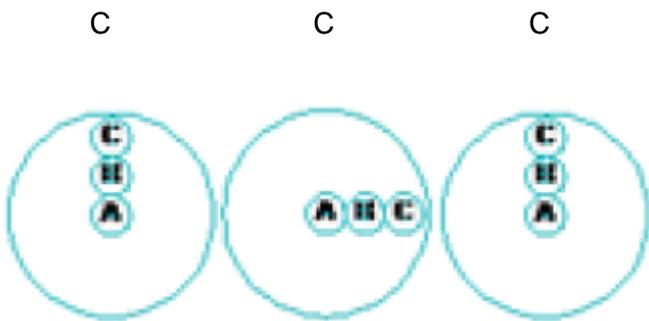
To use this motion set the left and right hand drive pegs in the outermost holes with the middle peg in the innermost hole, as shown in the diagram below:



The second motion option is to give a **24mm Lissajous**. This is used in the vast majority of pilling tests. To use this motion set the drive pegs in the middle holes, as shown in the diagram below:



The third motion option is the **60mm Lissajous** motion. This is usually used for abrasion testing. To use this motion set all the drive pegs in the outermost holes, as shown in the diagram below:



The top plate must then be replaced. For 1309/1609 instruments the smaller back section must be replaced first.

For all models, the top plate must be positioned so that the drive pegs line up with the slots in the top plate.