NTL – magnetic model, cubic and hexagonal

Manual
for remagnetising magnetic needles

Two bar magnets are required.
e.g. P3410-1K Magnet, AlNiCo, D=10 mm, L=50 mm

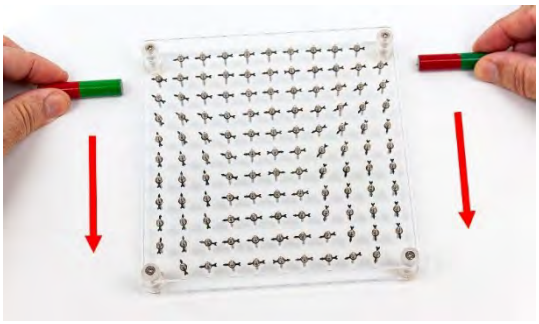
The poles of the magnets must be clearly marked.

The magnets should not be too strong (no neodymium magnets) to prevent other magnetic darts from becoming magnetised.

Note

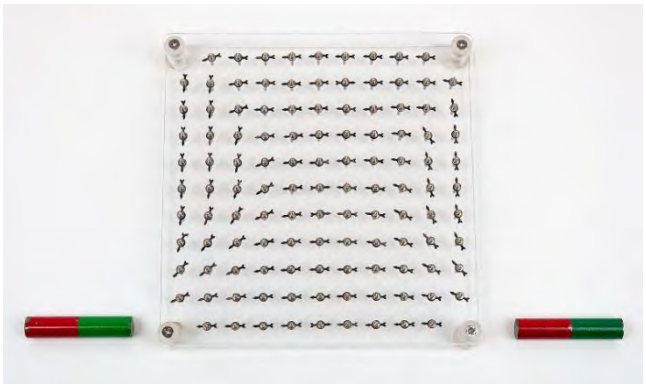
Please always ensure that the magnets used are not moved too close to the magnetic needles.

Leave at least 2 cm space. Under no circumstances should the needles directly touch the magnets.



The magnetic model is placed horizontally on a table with a light-coloured surface.

The two bar magnets are placed to the left and right of the top row of needles on the magnet model, with the same pole direction.



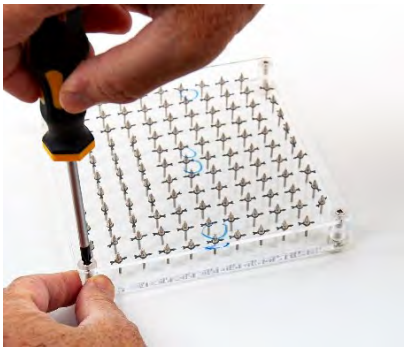
You can now check the magnetisation of the magnetic arrows in this row:
All arrows (magnetic needles) must point in the same direction.

The magnets are now pushed ‘downwards’ row by row. This allows you to check the other rows of the model as well.

It is essential that you carry out the check row by row!

Magnetic arrows with incorrect polarity (reversed polarity) point in the opposite direction.

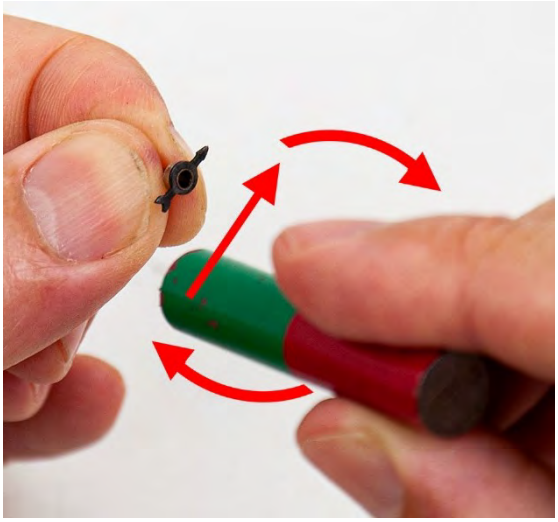
Arrows with incorrect polarity are marked on the top plate with a board marker.



The fixing screws in the four corners are unscrewed

The top plate is removed.

Now the incorrectly magnetised magnetic arrows can be carefully removed.

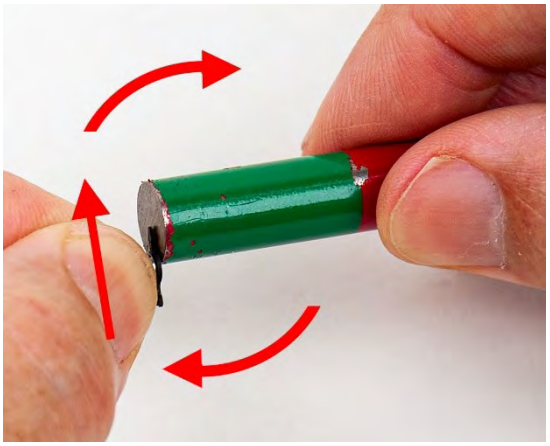


The magnetic arrow is held by the tip cap with two fingers.

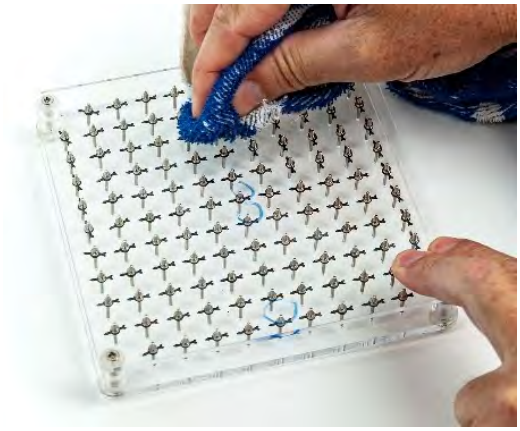
The bar magnet is now used to stroke the underside of the magnetic arrow in a circular motion in the direction of the arrows shown in the illustration.

Check the polarity!

Stroke the green pole over the magnetic arrow!



This process must be carried out several times.



The magnetic arrows are then reattached.

The top plate is reattached.

The markings can be wiped off with a dry cloth.