

How to handle STOP-MO-TEC Plug-In-Wire-Kits

- **Glueing the wires into the tubes:**
Always use 2 component Epoxy or acrylit glues. To make sure the wire can not turn inside the glue you need to bend the end of your wire back 180° ! to create a U-shaped-loop. In case the loop does not fit into the tube use some pliers or a vise to press it together. If you use thicker wires (3mm) your wire will not fit into the tube if you bend them back – you need to file a bit material off the bend back part. With even thicker wires (2x2,5 oder 1X 4mm where bending back 180° is not possible anymore) you best use a plier and bite into the ends of the wires to create some dents. It's very important that you do not hurt the wire in areas which will not be covered with glue and a tube – especially in „joint“ areas ! With 2x2 wires you can alternatively just bend back one of the wires. When using 2X2,5 twisted wires chances are that you have trouble to insert the wire into the Tube . This is dues to production tolerances or wire and tubes. If that happens try another tube Sometimes also cutting the wire with a plier can deform the tip of the wire which causes problems with inserting 2x2,5mm wires. If this is the case use a file to slim the tip down again. It's very important that you always roughen the surface of the wires (and if you want to receive the best possible result it's best to also roughen the inner surface of the tubes) where they will be glued into the tubes (for example with sandpaer) – a rough surface is a bigger surface and will glue stronger ! Also always clean / degrease all surfaces with alcohol, acetone or similar substances. Tubes should always be filled completely with glue.
- A good way to glue the wire is to put the tubes on a smooth surface (using a release agent to make sure the glue will no stick to the surface can be a good idea – some vaseline works, too) then roll out a clay-snake and lay it around the tubes and press it onto it until your tube is covered all the way up to the top - this way the outer surface your tube is saved and can not be covered with glue – now fill the tubes with glue then stick the wire into it. Make sure not to fill the tubes all the way to the top so there is enough space for the wire. If any glue runs out of the tube onto the clay use a Q-tip to whipe it away. Usually the glue starts to set fast and you can take the tubes out of the claybed and put it aside until the glue is 100% cured. – be careful not to bend or stress the wire at this point the glue will not be completely hard by then and if you bend it it can come loose. Most epoxy or acrylit glues take 24 hours to cure completely. Check the instructions of your glue to find out about this.
- Never screw non filled tubes into the blocks. If a tube is not filled it can be deformed if the screws are tightened with too much force and get clamped inside the block..
- Never use any force to insert the tubes they could get clamped and you will need a plier to pull them out of the block. If a tube can not be inserted easily chances are it is deformed or something is blocking the slot.
- Avoid bending the wire right were it comes out of the tube (no sharp bends !) this can cause the wire to break faster.
- Never use pliers to bend your wire. Pliers will „hurt“ your wire and leave marks. At these spots your wire will break faster Using pliers is okay at „no-joint“ areas.
- Be careful when tightening the setscrews. Just use enough force to secure the tubes. If you use a soft, good bendable wire – you do not need much force on the tubes since the soft wire will not give much resistant. The Blocks are made from a special Aluminium that is harder than the average hardwarestore-aluminium – but it's still aluminium a rather soft but lightweight Metal. If you use too much (unnecessary) force on the screws chances are that you will destroy the thread.
- The hex.keys that come with the BASIC KIT PLUS – small L shaped Hex Keys in general - do not have special hardened tips – they are okay to assemble the Kit 1 or 2 times – after that there are chances that the tip is worn out and has no grip to the hex head anymore – the key will turn inside the head without turning the screw. To fix this problem cut off the deformed tip to receive a new sharp hex shaped tip - for more professional use we recomend „T-handle“ or „screwdriver-style“ Hexkeys from WIHA which have a speccail hardened tip that will do the job. Scewdriver-style hex-keys are available from the stopmotec shop or in well equipped tool stores..