

Set-up guide

K&S 412x/452x Workholder Height Adjustment

Purpose

Describes the setting of the workholder height for all K&S manual wire bonders. This applies to machines being used in Manual Z mode as well as 'Semi-Auto'

Procedure

1. Turn Loop dial to 0
2. Ensure there is nothing under the bonding tool; work on workholder etc
3. Press & release the Chessman button once; this will perform 1st bond in mid air and cycle the machine to Loop position.
4. Adjust the height of the workholder, by rotating the base, so that the lowest of the bond surfaces just touches the tip of the bonding tool. **Be careful not to damage the tip of the bonding tool during this procedure.**
5. Once height has been adjusted, use the tool lifter to raise the bonding tool from the bond surface. Press and release the Chessman button once more to cycle the machine back to Reset. Alternatively you can just press the Reset switch to Reset the machine after the height has been performed.
6. Return the Loop dial to a normal setting. Lower tool lifter, if used.

Semi-Auto only

1. Set Search heights for both 1st and second bond. The bonding tool should be about 0.005" (125 micron) above the bond surface.

Digital Machines

All digital machines should use the above procedure BUT set workholder height using a Loop setting of 1.