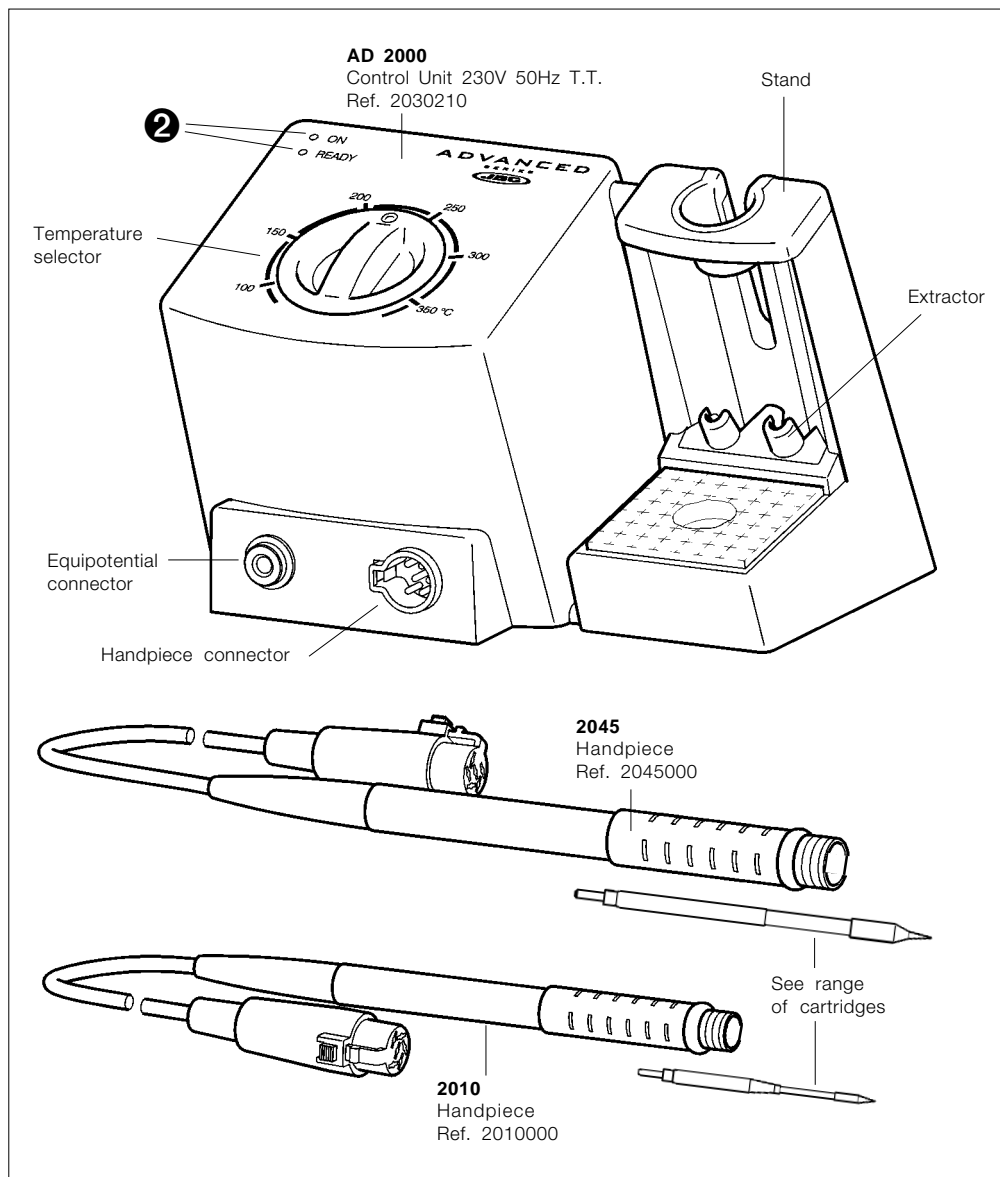


We appreciate the confidence you have shown in JBC by purchasing this station. It has been manufactured with the highest standards of quality in order to give the best possible service. Before starting up the station, we suggest you to read through the following instructions carefully.

You have purchased a **Advanced** Control Unit, in order to complete the soldering station you should choose the suitable handpiece and cartridges for the task to do. The Control Unit is valid for any type of handpiece and cartridge.



The station's components

- **AD 2000**
Control Unit 230V 50Hz T.T. Ref. 2030210
- **AD 2000**
Control Unit 230V 50Hz BS T.T. Ref. 2030211
- **AD 2000**
Control Unit 115V 60Hz T.T. Ref. 2030110

- **2010** handpiece
without cartridge Ref. 2010000
- **2045** handpiece
without cartridge Ref. 2045000

The handpieces are supplied without cartridge, so that you can select the most suitable one.

The range of cartridges are given on page 2

Technical specifications

1. Temperature selection from 100 to 350°C ($\pm 3\%$).
2. Complies with EC standards on electrical safety, electromagnetic compatibility and antistatic protection.
3. Equipotential connection.

OPERATION

LED lights ②

Red LED (ON) - when lit, it indicates that the station is connected to the mains.

Green LED (READY) - when lit, it indicates that the system is ready and correctly set for working.

When it is not lit, the reason why will be one of the following:

1. The handpiece or the cartridge are not plugged in.
2. The maximum available power has been exceeded for too long - e.g. in very thick soldering and high repetition rates.
3. The handpiece or cartridge has a short circuit or an open circuit.
4. Any other trouble preventing the system from working properly.

The handpiece will reset itself automatically should the cartridge short circuit or go open circuit.

Should the handpiece be subject to:

- An electrical surge or the cartridge has not been fitted correctly.

Please turn the unit off and switch on again to reset.

The delay before the green LED comes on is due to the self-check.

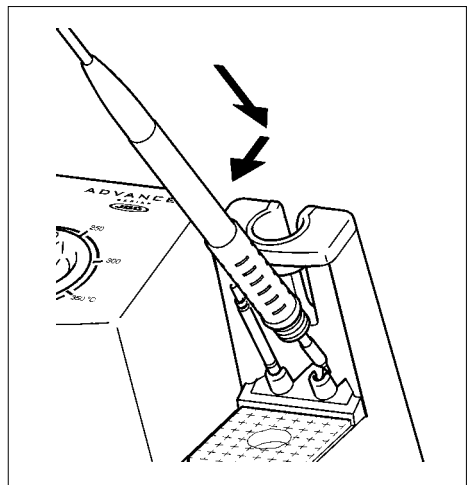
The green led goes off if the cartridge touches the extractor and the station stops the power supply. When the contact between cartridge and extractor is interrupted, the green led goes on and the station continues to function normally.

Standby-function

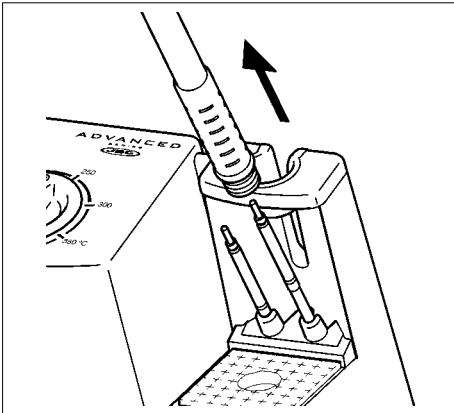
If the handpiece is placed in the holder, the temperature at the tip drops to 240 °C for the model 2010 and to 260 °C for the model 2045. This function is only possible because of the quick response time which does not make the user realise the temperature rise to reach the selected temperature. Also by this the oxidation of the tinning of the tip is extremely reduced and the tip reaches a longer life time.

Changing the handpiece's cartridge

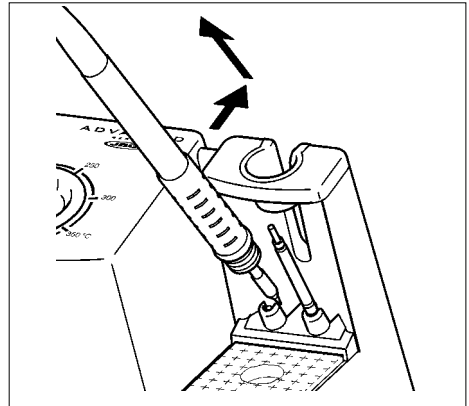
With the Advanced system, the cartridge can be changed quickly, without turning off the station, so you have two soldering irons in one. Here is what to do to change the cartridge:



- Insert the tip of the handpiece fully into the extractor-free housing.

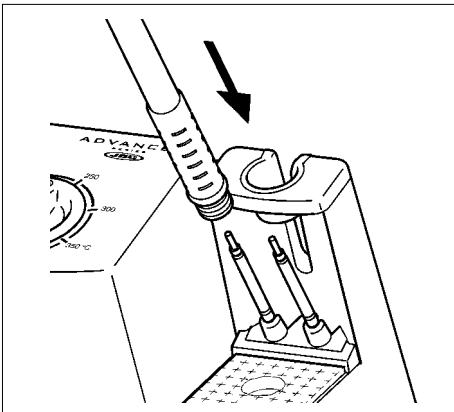


- Remove the cartridge by pulling the stem gently upwards.

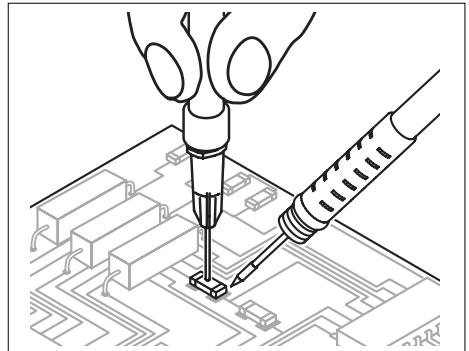


- Remove the handpiece from the extractor by freeing the tip from its housing.

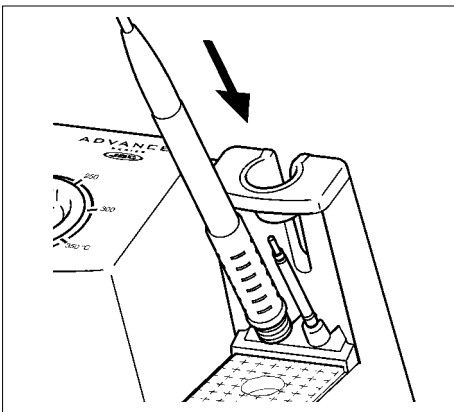
Recommendations for soldering



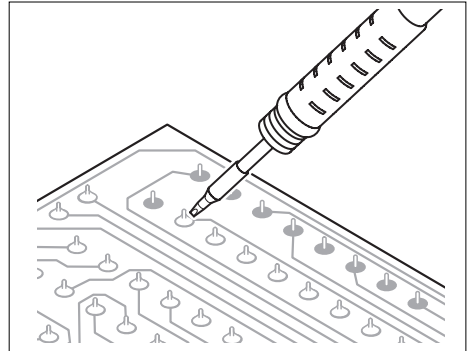
- Place the handpiece stem over the other cartridge and press all the way down.



- The **2010** handpiece is used for precision work, such as soldering SMDs, etc.



- Make sure it has gone all the way down, otherwise it will not heat up.



- For more general electronics soldering work, use the **2045** handpiece.

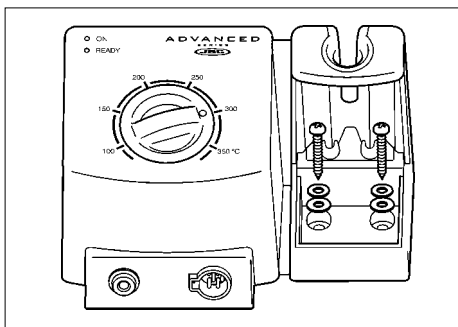
We recommend selecting a temperature below 325°C.

Tip care

- To clean the tips, use the damp sponge included with the stand.
- Do not file the tips or use abrasive tools which may damage the tip's protective surface coating and avoid knocking them about.
- To re-tin the soldering tips, we recommend using the soldering paste made by the Multicore company.

Fixing the station in place

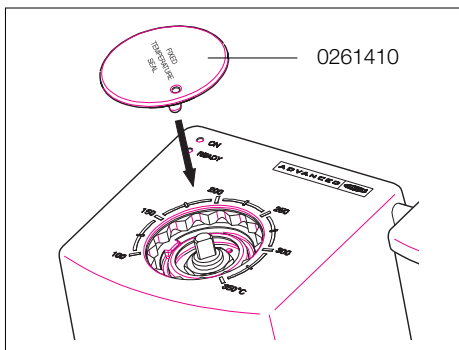
The **AD 2000** Control Units stations are fitted with an attachment system for fixing them in place on the work bench using two screws.



- Use a drill to open up the 2 holes marked out, and fix in place with 2 screws.

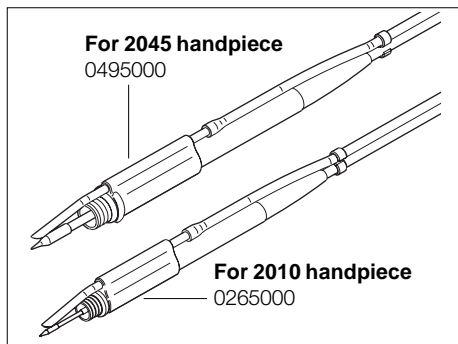
We recommend using a silicone or similar sealant to achieve a good seal.

Temperature-sealing cover



A temperature-sealing cover is available as an accessory - Ref. 0261410. Its purpose is to prevent operators from changing the temperature that has been pre-selected.

Fume extractor accessories



Specially designed for the Advanced Series handpieces 2010 and 2045. Easily clips onto the handpiece and can be quickly removed for easy maintenance.

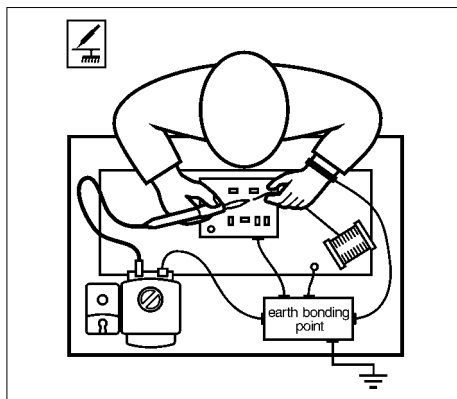
Equipotential connection

This unit has a connector on the front which, when connected as shown in figure, creates a circuit to protect the components to be soldered against electrostatic discharge.

It must be connected to a common (equipotential) point: to the work surface, the soldering station and, by means of an armband, to the operator.

This provides a voltage reference point, ensuring a common voltage throughout the work area.

The point should not be branched to earth as this would cancel out the protection. For safety's sake, the operator should be fully insulated from earth.



JBC reserves the right to make technical changes without prior notification.