INSTRUCTION MANUAL

FOR

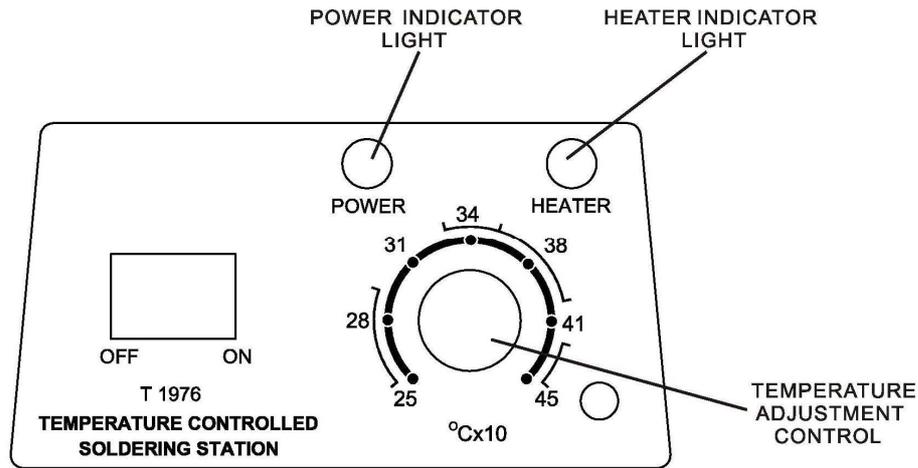# T 1976

TEMPERATURE CONTROLLED

SOLDERING STATION

Operating   Instructions

Thank you for purchasing the XYTRONIC Electronics T 1976 Soldering Station .For ease of use and maximum longevity of this tool,please read these instructions carefully and refer to Fig.I below before commencing use of the T 1976 for the first time.

WARNING: This appliance is not intended for use by young children or infirm persons without supervision.

FIG . 1

Initial set-up

After removing the T 1976 from its protective cardboard packaging,check the base unit,soldering pencil and cables for any signs of damage.If any damage is evident,do not plug it into an AC outlet ,but instead contact the place of purchase to arrange for correction of the damage.

Once you have inspected the Soldering Station and it appears to be free of damage,refer to Fig.2 below and check that the knurled nut from the tip retaining assembly has been tightened moderately to securely hold the soldering tip in place.
Moisten the cleaning sponge with water,and place it in the well on top of the base unit.

FIG..2
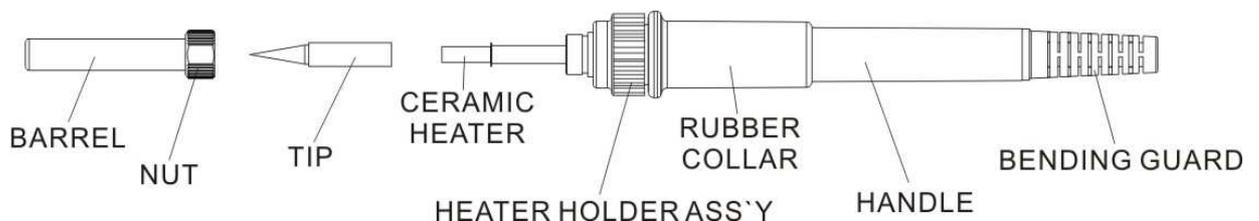
Plug the soldering station into an AC outlet and turn the Temperature Control to slightly above the 340 degrees position .Depress the power switch on the front panel of the T 1976 to the "ON"position and allow about 2-3minutes for the soldering tip to heat to operating temperature.

Proceed to tin the end 2-3mm of the soldering tip with good quality rosin-cored electronics grade solder before going on to use the T 1976 for first time.It is well worth spending a few minutes ensuring the tip has been well tinned ,as this will make the soldering process much easier .Once the tip has been tinned ,wipe it briefly across the moistened sponge to remove any excess solder.

Your soldering station is now ready to use.

WARNING: During operation,the tip and barrel of the T 1976 soldering pencil will be extremely hot ,and will cause serious burns if allowed to contact the skin .The soldering pencil must be returned to its holder after each use to minimise the danger of burns .Young children should be supervised to ensure that they do not play with the appliance.

Tip Temperature Control

The T 1976 provides a variable temperature control to cater for the soldering of different size and thickness solder joints,and different solder alloys.To adjust the temperature ,simply turn the temperature control knob to the desired temperature and wait about I minute for the tip to settle at the newly selected temperature.

A temperature setting that is too low for the solder being used will cause the soldered connection to heat slowly,and this can cause component damage as the tip will need to be applied for a longer duration.A tip temperature that is too high will raduce tip life and will make it almost impossible to keep the tip tinned.The correct temperature will allow the connection to be raised to soldering temperature rapidly,allowing the solder joint to be completed before nearby parts become overheated.

The most common solder alloy used in electronic work is known as "60/40"solder as its main constituents are 60% Tin and 40% Lead.A good starting point for use with this type of solder is 350 degress as it is sufficiently above the 60/40 solder's melting temperature to allow rapid heat conduction to the joint being worked on .Some solder alloys may also contain a small amount of copper to increase the life of unprotected copper tips,and these solders will require a slightly higher temperature setting for optimum soldering results.

Maintenance and Servicing

The T 1976 Soldering Station is not user serviceable ,and no attempt should be made to open the case.In compliance with mandatory safety standards it is fitted with tamper resistant screws which restrict access.
If either of its power leads becomes damaged ,or the T 1976 becomes faulty or fails to operate correctly, discontinue its use immediately.The power leads must only be replaced by XYTRONIC Electronics Pty Ltd or its authorised repairers.