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# INSTRUCTION MANUAL


# KNE

Nitrogen Regulator Kit for DDE, DME and HDE Control Units

This manual corresponds to the following reference:

**KNE-B**

## Packing List

The following items are included:

**Nitrogen Flow Regulator** ..... 1 unit
Ref. MNE-A

**Stand** ..... 1 unit
Ref. DN-SF

**Nitrogen Handle** ..... 1 unit
Ref. T245-NA

**Nozzles** ..... 2 units
Ref. B7244 (x1)
B7968 (x1)

**Cartridge** ..... 1 unit
Ref. C245903


**Sponge** ..... 1 unit
Ref. S7034

**Sponge** ..... 1 u
Ref. CL6210

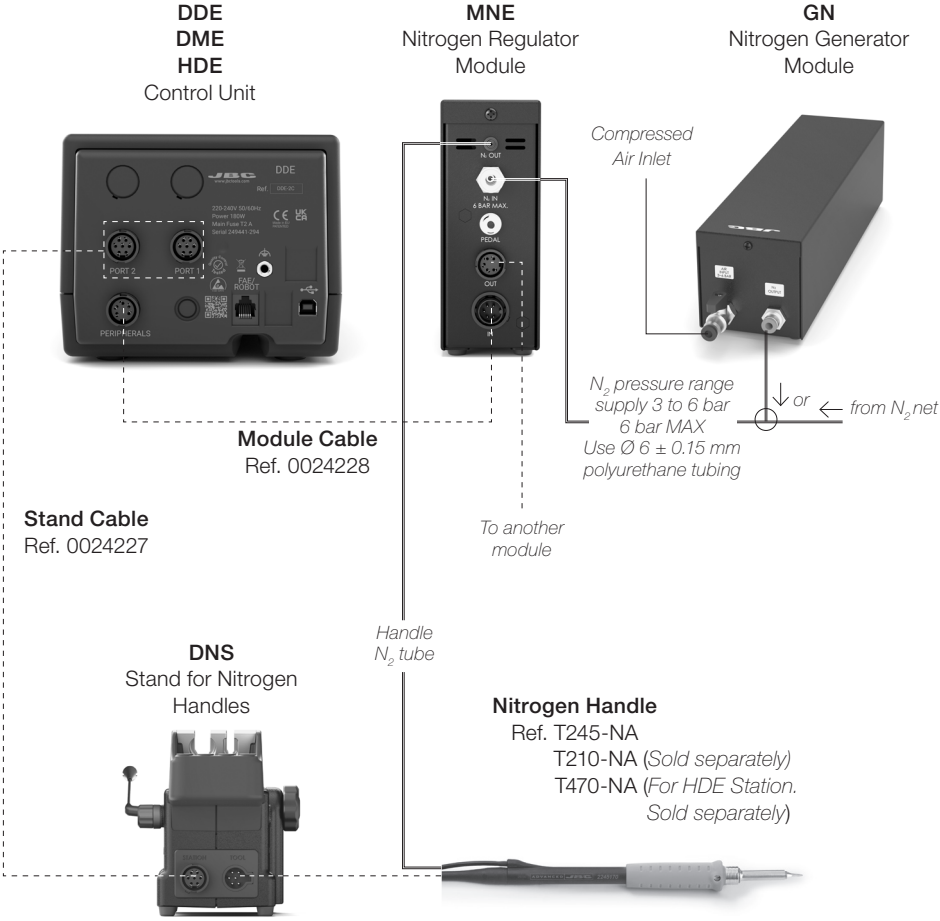
**Stand Cable** ..... 1 unit
Ref. 0024227

**Module Cable** .... 1 unit
Ref. 0024228


**Manual** ..... 1 unit
Ref. 0020524

# Features

The KNE-A requires the GN-A generator or an available nitrogen supply at the operator´s bench.



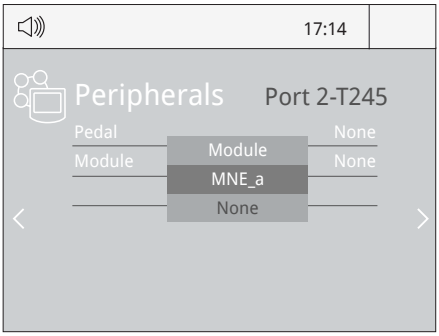
# Initial Set up

## For DDE and HDE Control Units

**1.** After connecting the MNE, enter the **Peripherals** Menu and select the port you want to join to the module.

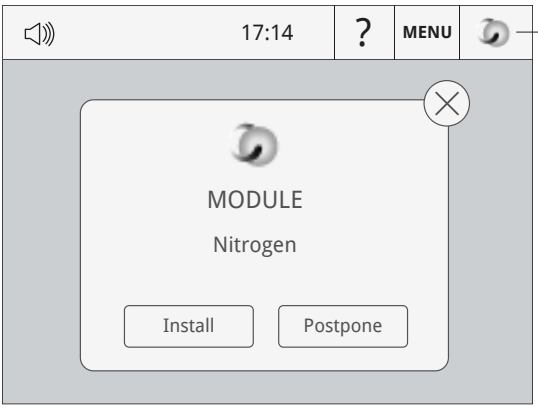
**2.** Select the module from the list of peripheral connections. Remember your first connection is denoted as “a”, the second as “b”, etc. (e.g. MNE_a, MNE_b,...)

**3.** Press Menu or Back to save changes.




## For DME Control Unit

When a new MNE is detected, a **pop-up screen** appears with instructions.
If no screen appears, click on the **icon** on the main bar and follow the steps.




*Appears only when the installation is postponed*

## For both Control Units

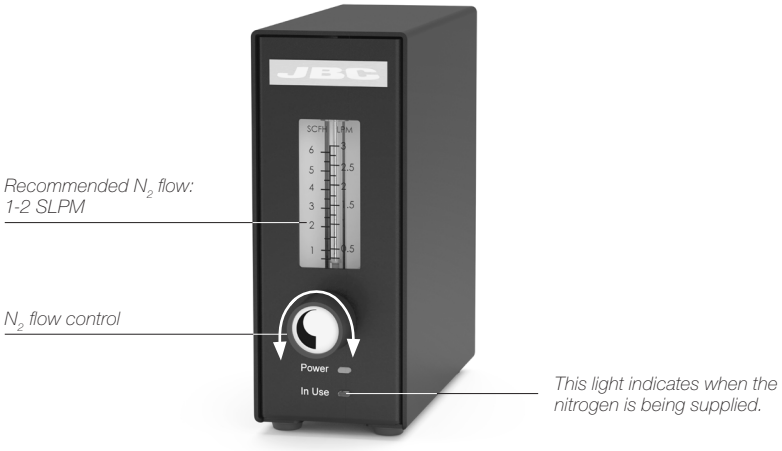
Once set up, you can change the module settings by entering the **Peripherals Menu.**

## Operation

Using nitrogen improves the quality of the solder joint as well as preventing tip oxidation.
The MNE is an electrovalve that manages nitrogen flow. It is controlled by the station which keeps gas consumption to a minimum.

**1.** The nitrogen flow is automatically activated when the soldering iron is lifted from the stand.

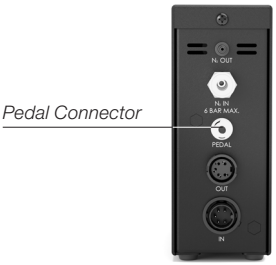
**2.** The flow is interrupted when the tool is returned to the stand and the temperature drops for the tip to go into the Sleep mode.




## Accessories

Use the P-005 Pedal to **enable/disable** the module. This pedal will work with any module or tool regardless of the module to which it is connected.

**Pedal**
Ref. P-005



## Maintenance

Before carrying out maintenance or storage, always allow the equipment to cool.

- Use a damp cloth to clean the casing, the stand and the tool. Alcohol can only be used to clean the metal parts.

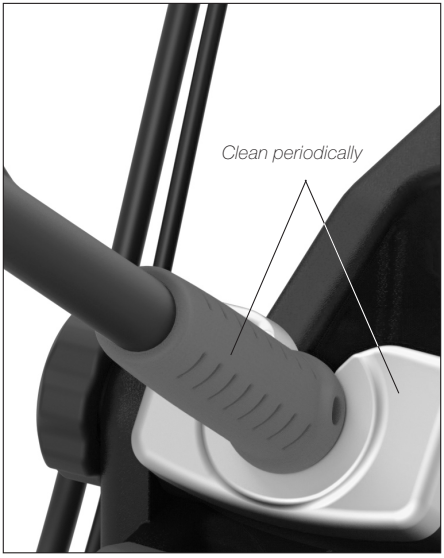
- Check periodically that the metal parts of the tool/stand are clean so that the station can check the tool status.

- Maintain tip surface clean and tinned prior to storage in order to avoid tip oxidation. Rusty and dirty surfaces reduce heat transfer to the solder joint.

- Periodically check all cables and tube connections.

- Replace any defective or damaged parts. Use original JBC spare parts only.

- Repairs should only be performed by a JBC authorized technical service.



# Safety

**It is imperative to follow safety guidelines to prevent electric shock, injury, fire or explosion.**

- Only nitrogen can be used with this unit.

- Do not use the unit for any purpose other than soldering or rework. Incorrect use may cause fire.

- The power cord must be plugged into approved bases. Be sure that it is properly grounded before use. When unplugging it, hold the plug, not the wire.

- Do not work on electrically live parts.

- The tool should be placed in the stand when not in use in order to activate the sleep mode. The soldering tip, the stand and the metal part of the tool may still be hot even when the station is turned off. Handle with care, including when adjusting the stand position.

- Do not leave the appliance unattended when it is on.

- Do not cover the ventilation grills. Heat can cause inflamable products to ignite.

- Avoid flux coming into contact with skin or eyes to prevent irritation.

- Be careful with the fumes produced when soldering.

- Keep your workplace clean and tidy. Wear appropriate protection glasses and gloves when working to avoid personal harm.

- Utmost care must be taken with liquid tin waste which can cause burns.

- This appliance can be used by children over the age of eight as well as persons with reduced physical, sensory or mental capabilities or lacking experience provided that they have been given adequate supervision or instruction concerning use of the appliance and understand the hazards involved. Children must not play with the appliance.

- Maintenance must not be carried out by children unless supervised.

## Specifications

**KNE**
**Nitrogen Regulator Kit for DDE, DME & HDE Control Units**
Ref.: **KNE-B**

| | |
|---|---|
| - Weight: | 3,7 kg / 8.2 lb |
| - Dimensions (MNE): | 55 x 130 x 140 mm / 2 x 5.1 x 5.5 in |
| - Voltage (AC): | 24V (from control unit) |
| - Power: | 3W |
| - $N_2$ pressure range supply: | 3-6 bar |
| - Maximum $N_2$ pressure: | 6 bar |
| - $N_2$ flow regulation: | 0.5 - 3 SLPM |
| - Recommended $N_2$ flow: | 1-2 SLPM |
| - Ambient Operating Temperature: | 10 - 50 ºC / 50 - 122 ºF |

Complies with CE standards.
ESD Safe.

**Warranty**
JBC's 2 year warranty covers this equipment against all manufacturing defects, including the replacement of defective parts and labour.
Warranty does not cover product wear or misuse.
In order for the warranty to be valid, equipment must be returned, postage paid, to the dealer where it was purchased.
**Get 1 extra year JBC warranty by registering here: https://www.jbctools.com/productregistration/ within 30 days of purchase.**

This product should not be thrown in the garbage.
In accordance with the European directive 2012/19/EU, electronic equipment at the end of its life must be collected and returned to an authorized recycling facility.

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