

## Safety Precautions

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### **WARNING**

- Clips, Clamps and terminals are at high voltage that may result in severe personal injury or death.

### **CAUTION**

- Carefully read the contents of this manual before servicing the air conditioner and store the manual in a safe place in order to be able to use it as reference after servicing.
- Carefully follow the precautions listed below because they are essential to guarantee the safety of the equipment.
- For maximum safety, technician or installers should always carefully read the following warnings.
- It must only be used by a competent engineer.
- Be careful.  
It's extremely hot when if it's consecutively used more than 5 minutes.

### **WARNING**

- Hazards or unsafe practices that may result in severe personal injury or death.
- Always disconnect the air conditioner from the power supply before servicing it or accessing its internal components.
- Before commencing any tests, switch off all power sources and wait for a minimum of 15 minutes to all capacitor voltages to decay.
- Before disconnecting or connecting any terminals, check that all voltages are zero.
- Do not use in damp or wet conditions.
- Do not use the units if damaged. If problems occur, switch the unit off and disconnect it from the power supply.
- Do not attempt to repair.
- Do not place containers with liquids or other objects on the unit.
- Do not use it for more than 10 minutes consecutively.
- It is not intended for permanent connection.

## Performing the tests

### WARNING

Before commencing any tests, **switch off all power sources** and **wait** for a **minimum of 15 minutes** to allow all capacitor voltages to decay. Before disconnecting or connecting any terminals, check that all voltages are zero.

### Checking the inverter phase outputs

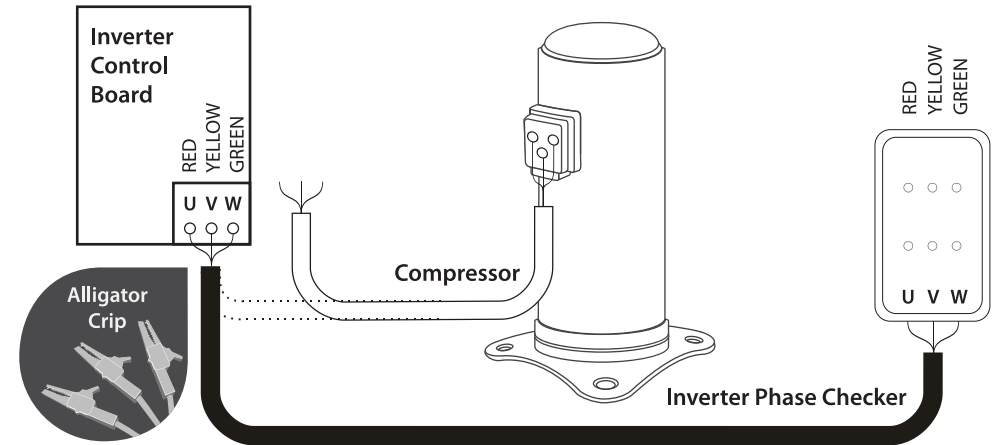
This test is carried out using the three Phase Terminals marked U, V, W. with **all Power switched off** (see right) disconnect the connections from the inverter to the compressor and wire the three terminals on the inverter Phase Check Module marked U, V, W with the connections safely made to both the inverter and the Module, place the Module down on a dry surface where the lights can be seen through the windows in the fascia label and switch on the power to the inverter.

If the inverter outputs are "good", then all six lights will turn on, showing red, yellow, green. If there is a problem with the output (power) board, or with the driver board which controls it, then one or more of these lights will not be lit.

**Note:** the inverter boards from some manufacturers incorporate safety cut-out which stop the inverter after a few seconds if the compressor is not connected. In these cases the lights on the Module will only light for a few seconds, but provided all six lights turn on then the inverter is probably ok. A second test, with the compressor and the Module both connected should then provide further confirmation.

## How to connect invert phase checker

Disconnect compressor wires at the control board  
And connect inverter phase checker using cable supplied



Connect inverter phase checker direct using cable supplied

