



CL-MC02B

Inverter Phase Checker

Instruction Manual

Safety Precautions

Read First: Safety Information

- Understand and follow operating instructions carefully.
Use the Inverter Phase Checker only as specified in this manual.

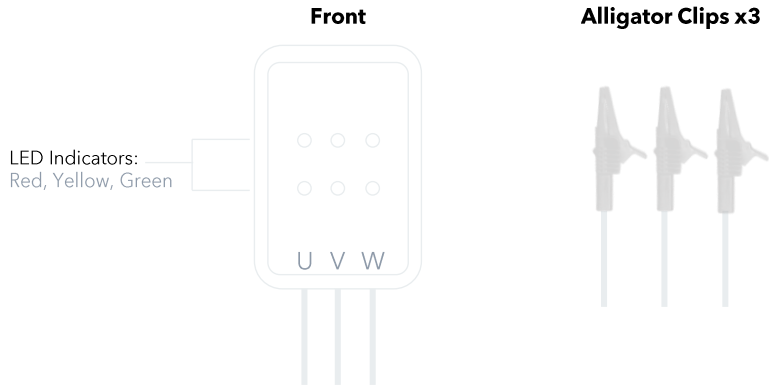
CAUTION

- Carefully read the contents of this manual before use.
Store the manual in a safe place to use as reference.
- Carefully follow the essential precautions listed in this manual to guarantee the safety of the equipment.
- The Inverter Phase Checker should only be used by competent technicians and installers.
- Avoid using the Inverter Phase Checker for more than 5 consecutive minutes as it can become extremely hot.
- For maximum safety, technicians and installers should always carefully read the following warnings.

WARNING

- Clips, clamps, and terminals are at high voltage that may result in severe bodily injury or death.
- To avoid severe bodily injury or death, be mindful of potential hazards and unsafe practices. Always prioritize safety procedures and follow established guidelines.
- 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 for 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 Inverter Phase Checker if it is damaged. If any 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 5 consecutive minutes.
- The Inverter Phase Checker is not intended for a permanent connection.

Inverter Phase Checker Overview



Hardware Specifications

Range of Products	CL-MC02B
Dimensions	H: 2.7 in(69mm) x W:4.5 in(115mm)x D:1.1 in(28mm)
Net Weight	11 oz (300g)
Display	6 LEDs (2 Red, 2 Yellow, 2 Green)
Voltage Range	440V AC 3-phase
Cord	3 ft. (91cm) long x 3
Case Color	Off-white
Case Material	Flame-resistant ABS UL94V-0
Insulated Alligator Clip	•Amps: 30 •Voltage: 1000 •Color: Red •Connection: Banana Jack •Cover: Nylon housing •Material: Nickel Plated Steel

Performing the Tests

WARNING

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

Checking the Outputs

Directions:

1. Ensure that all power sources are disconnected.
2. **Option A)**

Clip on the Inverter Phase Checker U, V, W alligator clips accordingly to the inverter control board's U, V, W connection port.

OR

Option B)

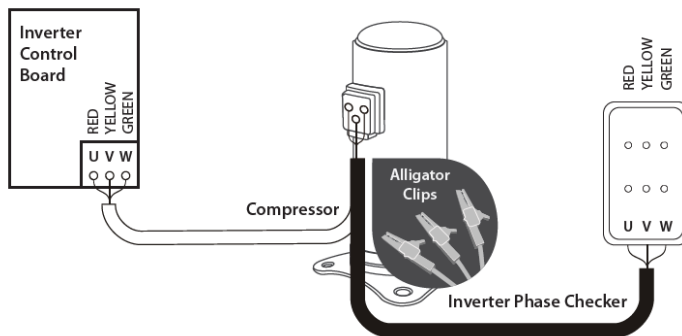
Disconnect the connections from the inverter to the compressor.

Connect the Inverter Phase Checker U, V, W alligator clips accordingly to the inverter control board's U, V, W connection port.

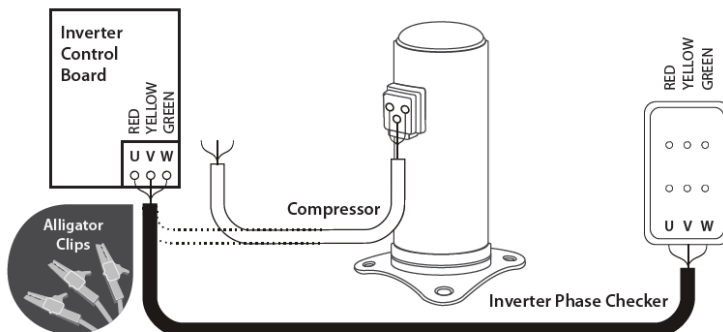
3. Place the Inverter Phase Checker down on a dry surface to observe the LED lights.
4. Switch the power on to the inverter control board.
5. If all six LED lights are lighting up (blinking), it means the board has no issues.
6. If one or more of the LED lights are NOT lighting up (blinking), it means the board is problematic.

How to Connect

Option A: Connect the inverter phase checker directly using the supplied cables.



Option B: Disconnect compressor wires at the control board and connect the inverter phase checker using the supplied cables.



Maintenance and Care

- **Cleaning:** Wipe with a dry or slightly damp cloth. Avoid using solvents or sprays.
- **Storage:** Store in a clean, dry, and cool location, and use appropriate containers to protect it from damage.

Technical Support

For support inquiries, visit <https://www.cyclogic.net/>

- **E-mail:** help@cyclogic.net

Limited Warranty

1. This device is warranted to be free of defects in materials and workmanship for a period of up to one year from the original purchase date. This warranty does not cover damage caused by normal wear, misuse, abuse or incorrect repair. To claim under this limited warranty and to obtain warranty service, please contact customer service to obtain instructions on how to pack and ship the product back to Cyclogic.
2. The following situations will not be covered by warranty:
 - A. Issues arising after the warranty period has ended e.g. natural wear and aging of materials.
 - B. Malfunction or damage caused by improper handling or not operating the device according to the instructions.
 - C. Damage occurring from operating the device outside the recommended temperature and humidity range, damage from contact with water (including uncontrolled water intrusion e.g., water vapor and water-related causes), damage from applying excessive force to the device or any cables and connectors.
 - D. Failure or damage caused by unauthorized removal of the product.
 - E. Damage caused by Force Majeure or acts of God including lightning, flood, tornado, earthquake, or hurricane.