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› BOJACK CBB65 40 uF 370V/450V AC Motor and Fan Starting Round Capacitor Instruction Manual

BOJACK BJ-CPT-40UF

BOJACK CBB65 40 uF 370V/450V AC Motor and Fan Starting Round Capacitor Instruction Manual

Model: BJ-CPT-40UF

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the BOJACK CBB65 40 uF Motor and Fan Starting Round Capacitor. This component is designed for use in various AC applications, including air conditioners and heat pumps, requiring a 370V or 450V AC capacitor. Please read this manual thoroughly before installation and operation.

2. SAFETY INFORMATION

WARNING: Electrical components can store dangerous charges even when power is disconnected. Improper handling can result in severe injury or death. Installation should only be performed by qualified personnel with appropriate safety equipment.

- Always disconnect power to the appliance before attempting any installation or maintenance.
- Discharge the old capacitor safely before removal. Use a properly insulated screwdriver with a metal shaft to short the terminals, or a resistor designed for capacitor discharge.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and safety glasses.
- Ensure the replacement capacitor's specifications (microfarads, voltage) match or exceed the original component's requirements.
- Do not touch the terminals of the capacitor while power is connected or before it has been safely discharged.
- This capacitor is designed for AC motor and fan starting applications. Do not use it for purposes other than its intended design.

3. PRODUCT OVERVIEW

The BOJACK CBB65 capacitor is a robust, round-shaped component engineered for reliable performance in demanding applications. It features heat-resisting and anti-explosion properties, utilizing castor oil for enhanced performance and

safety. This capacitor is suitable for both 370V and 450V AC systems.

Key Features:

- Capacitance: 40 μ F
- Rated Voltage: 370V / 450V AC
- Frequency: 50/60 Hz
- Temperature Coefficient: 40/70/21
- Safety: 10000 AFC Anti-Explosion Pressure Switch
- Dielectric: Castor Oil Protected
- Material: Copper terminals



Figure 1: Front view of the BOJACK CBB65 40 uF capacitor, displaying its brand, capacitance, voltage ratings, and safety certifications.

4. SETUP AND INSTALLATION

This section outlines the general steps for replacing a capacitor. Specific procedures may vary depending on the appliance. Always refer to the appliance's service manual for detailed instructions.

1. **Power Disconnection:** Locate the main power switch or circuit breaker for the appliance and turn it OFF. Verify that power is completely disconnected using a voltage tester.
2. **Access the Capacitor:** Open the access panel on the appliance where the capacitor is located. This is typically found in the outdoor unit of an air conditioner or heat pump.
3. **Discharge the Old Capacitor:** Before touching any terminals, safely discharge the old capacitor. Use an insulated screwdriver to short the terminals, or a specialized capacitor discharge tool. You may hear a pop or see a spark, which is normal.
4. **Document Wiring:** Take clear photographs of the existing wiring connections to the capacitor. Note which wires connect to which terminals (e.g., Herm, Fan, Common).
5. **Remove Old Capacitor:** Disconnect the wires from the old capacitor. Carefully remove the old capacitor from its mounting bracket.
6. **Install New Capacitor:** Place the new BOJACK CBB65 capacitor into the mounting bracket. Ensure it is securely fastened.
7. **Connect Wiring:** Reconnect the wires to the new capacitor according to the photographs taken in step 4. Ensure all connections are tight and secure.
8. **Close Access Panel:** Securely close the access panel of the appliance.
9. **Restore Power:** Turn the main power switch or circuit breaker back ON.
10. **Test Operation:** Test the appliance to ensure it is functioning correctly.

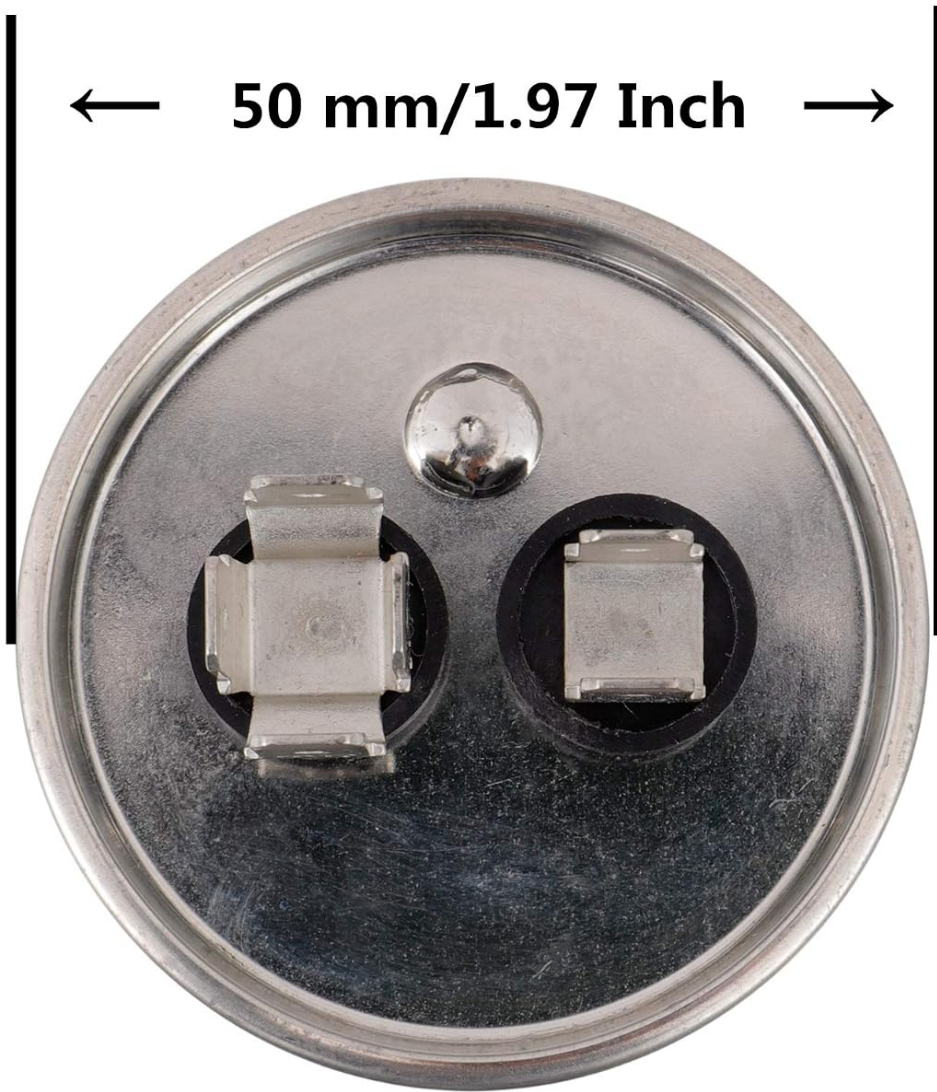


Figure 2: Top view of the capacitor, illustrating the terminal configuration and a diameter of 50 mm (1.97 inches).



Figure 3: Side view of the capacitor, indicating a height of 100 mm (3.937 inches).

5. OPERATING PRINCIPLES

A motor starting capacitor, like the BOJACK CBB65, is an electrical component that stores electrical energy in an electric field. In AC motor applications, it provides a phase shift to the motor's start winding, creating a rotating magnetic field that helps the motor overcome inertia and begin rotation. For fan motors and compressor motors in HVAC systems, this capacitor ensures a smooth and efficient start-up, contributing to the overall performance and longevity of the unit. The CBB65 type capacitor is a run capacitor, meaning it remains in the circuit during the motor's operation to improve efficiency and power factor. Its dual voltage rating (370V/450V AC) indicates its compatibility with systems operating at either voltage, providing flexibility for various applications.

6. MAINTENANCE

Capacitors are generally maintenance-free components. However, regular inspection of the appliance's electrical system

can help identify potential issues before they lead to failure.

- **Visual Inspection:** Periodically inspect the capacitor for any signs of physical damage, such as bulging, leaks, or discoloration. A bulging top is a common indicator of a failing capacitor.
- **Terminal Connections:** Ensure all wire connections to the capacitor terminals remain clean and tight. Loose connections can lead to overheating and premature failure.
- **Environmental Conditions:** Ensure the capacitor is not exposed to excessive heat or moisture, which can shorten its lifespan.

Note: Any inspection involving direct contact with the capacitor should only be performed after safely disconnecting and discharging the unit, as outlined in the Safety Information section.

7. TROUBLESHOOTING

If an appliance using this capacitor is not functioning correctly, consider the following common issues related to capacitor failure:

- **Motor Not Starting or Humming:** If the motor (e.g., compressor or fan motor) hums but does not start, or starts slowly, the capacitor may be weak or failed.
- **Appliance Not Cooling/Heating:** In HVAC systems, a failed capacitor can prevent the compressor or outdoor fan from operating, leading to a lack of cooling or heating.
- **Visible Damage:** A capacitor with a bulging top, leaks, or burn marks is indicative of failure and requires replacement.

Testing a Capacitor: A multimeter with a capacitance testing function can be used to check the actual capacitance value. After safely discharging the capacitor, disconnect it from the circuit and measure its capacitance. Compare the reading to the rated capacitance (40 μ F). A reading significantly lower than the rated value indicates a failing capacitor.

IMPORTANT: Always ensure power is disconnected and the capacitor is fully discharged before testing or handling.

8. SPECIFICATIONS

Parameter	Value
Model Number	BJ-CPT-40UF (CBB65B)
Capacitance	40 μ F
Capacitance Tolerance	$\pm$ 5%
Rated Voltage	370V / 450V AC
Rated Frequency	50 / 60 Hz
Tangent of Loss Angle (100Hz)	$\leq$ 0.002
Voltage Between Poles Withstand	2Un 60s
Polar Shell Withstand Voltage	2000V 60s
Insulation Resistance	$RC \geq 3000M \Omega \cdot \mu F$
Temperature Coefficient	40/70/21

Product Dimensions (L x W x H)	1.97 x 1.97 x 3.94 inches (50 x 50 x 100 mm)
Weight	7.83 ounces
Material	Copper (terminals)
Shape	Round

9. WARRANTY INFORMATION

Specific warranty details for the BOJACK CBB65 capacitor are not provided within this manual. For warranty inquiries, please refer to the product packaging or contact BOJACK customer support directly.

10. SUPPORT

For technical assistance or further information regarding the BOJACK CBB65 capacitor, please visit the official BOJACK website or contact their customer service department. Contact information is typically available on the product packaging or the manufacturer's website.

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