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› Instruction Manual for 30/5 MFD 370 Volt Dual Round Run Capacitor

UpStart Components CAP-97F9833-DL822

Instruction Manual for UpStart Components Dual Round Run Capacitor

Model: CAP-97F9833-DL822

Brand: UpStart Components

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your UpStart Components 30/5 MFD 370 Volt Dual Round Run Capacitor. This component is designed as a replacement part for various HVAC systems, including Goodman/Janitrol HDC18-1A units, to ensure motors run at optimum performance. Please read this manual thoroughly before installation and operation.

2. SAFETY INFORMATION

WARNING: Working on electrical systems can be dangerous and may result in electrical shock, personal injury, death, or property damage. Always disconnect power before servicing any electrical component. If you are not qualified to perform electrical work, seek assistance from a certified professional.

- Always ensure the main power supply to the unit is disconnected and locked out before attempting any installation or maintenance.
- Verify that the capacitor is fully discharged before handling. Capacitors can store a charge even after power is disconnected.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and eye protection.
- Ensure the replacement capacitor's voltage rating is equal to or higher than the original.
- Ensure the capacitance (MFD/uF) matches the original capacitor.
- Ensure the Hz and terminal type match the original capacitor.

3. PRODUCT OVERVIEW

The UpStart Components Dual Round Run Capacitor (CAP-97F9833) is a critical electrical component used in various applications, primarily HVAC systems, to help motors start and run efficiently. It features a dual-value design, providing two capacitance values within a single unit, typically for a compressor and a fan motor.



Figure 3.1: The UpStart Components Dual Round Run Capacitor (CAP-97F9833) shown with its product packaging.





Figure 3.2: A direct front view of the capacitor, highlighting the product label with specifications.



Figure 3.3: An angled view of the capacitor, showing its cylindrical shape and terminal configuration.



Figure 3.4: A top-down view of the capacitor's terminals, indicating the three distinct connection points for common, hermetic (compressor), and fan.

4. SETUP AND INSTALLATION

This capacitor is a direct replacement for Goodman/Janitrol HDC18-1A and similar units. Proper installation is crucial for safety and functionality.

4.1 Pre-Installation Checklist

- Confirm the new capacitor's specifications (MFD, Voltage, Hz) match or exceed the original.
- Ensure the physical size and shape are compatible with the available space in your unit.
- Gather necessary tools: insulated screwdrivers, pliers, multimeter with capacitance testing function.

4.2 Installation Steps

1. **Disconnect Power:** Turn off the main power supply to the HVAC unit at the breaker or disconnect switch. Verify power is off using a voltage tester.

2. **Locate and Access Capacitor:** Open the access panel of your HVAC unit to locate the existing capacitor.
3. **Discharge Capacitor:** Using an insulated screwdriver with a metal handle, short the terminals of the old capacitor to discharge any stored electrical energy. Be cautious, as a spark may occur.
4. **Note Wiring:** Carefully note or photograph the wiring connections to each terminal (Common, Herm, Fan) on the old capacitor.
5. **Remove Old Capacitor:** Disconnect all wires and remove the old capacitor from its mounting bracket.
6. **Install New Capacitor:** Place the new UpStart Components capacitor into the mounting bracket.
7. **Connect Wiring:** Reconnect the wires to the corresponding terminals on the new capacitor, ensuring a secure connection. Refer to your notes or photograph.
8. **Secure Access Panel:** Close and secure the access panel.
9. **Restore Power:** Turn the main power supply back on.
10. **Test Unit:** Start the HVAC unit and verify proper operation of the compressor and fan.

5. OPERATING PRINCIPLES

A run capacitor is essential for the continuous operation of AC motors, such as those found in air conditioners and furnaces. It provides a continuous phase shift to the motor's start winding, which helps maintain a strong rotating magnetic field, ensuring efficient and smooth motor operation. The dual-value capacitor supports both the compressor and the fan motor, optimizing their performance simultaneously.

6. MAINTENANCE

Regular inspection of your capacitor can help prevent system failures. While capacitors are generally maintenance-free, visual inspection is recommended periodically.

- **Visual Inspection:** Look for signs of a failing capacitor, such as bulging at the top or bottom, leaking fluid, or discoloration.
- **Performance Check:** If your HVAC unit is struggling to start, making humming noises without engaging, or the fan is not spinning correctly, the capacitor may be failing.
- **Professional Check:** For accurate assessment, a qualified technician can test the capacitance (MFD) using a multimeter.

7. TROUBLESHOOTING

If your HVAC system is exhibiting issues related to motor startup or operation, the capacitor is a common point of failure. Consider replacing your capacitor if you observe the following:

- The capacitor casing is visibly bulging or swollen.
- There is evidence of fluid leakage from the capacitor.
- A multimeter test shows no continuity across the terminals, or the capacitance reading is significantly lower than the rated value.
- The motor hums but does not start.
- The fan motor runs slowly or not at all.

Always ensure power is disconnected and the capacitor is discharged before performing any troubleshooting steps involving direct contact with the component.

8. SPECIFICATIONS

Specification	Value
Brand	UpStart Components
Model Number	CAP-97F9833-DL822
Capacitance	30/5 MFD (Microfarad)
Operating Voltage	370 Volts AC
Frequency	50/60 Hz
Material	Copper
Shape	Round
Product Dimensions	2 x 2 x 4.68 inches

9. WARRANTY AND SUPPORT

Warranty information for this product is not provided within this manual. For details regarding warranty coverage, returns, or technical support, please contact UpStart Components directly or refer to the product listing on the retailer's website where the item was purchased. Keep your proof of purchase for any warranty claims.

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