

[Manuals.plus](#) /

- › [UpStart Components](#) /
- › UpStart Components 5 MFD 370 Volt Oval Run Capacitor Instruction Manual

UpStart Components CAP-97F5705

UpStart Components 5 MFD 370 Volt Oval Run Capacitor Instruction Manual

Model: CAP-97F5705

1. PRODUCT OVERVIEW

This manual provides essential information for the safe and effective use of the UpStart Components 5 MFD 370 Volt Oval Run Capacitor, model CAP-97F5705. This component is designed as a replacement part for various HVAC and motor applications, ensuring optimal performance of your equipment.

A run capacitor is an electrical component that stores energy in an electric field. It is used to create a phase shift in the alternating current (AC) supply to the motor windings, which helps the motor start and run efficiently. This specific capacitor is rated for 5 Microfarads (MFD) and 370 Volts, featuring an oval case style and push-on tab terminals.



Image 1: The UpStart Components 5 MFD 370 Volt Oval Run Capacitor shown alongside its product packaging.

2. SAFETY INFORMATION

WARNING: Working with electrical components can be hazardous. Always disconnect power to the equipment before attempting any installation, inspection, or maintenance. Failure to do so may result in electrical shock, personal injury, death, or property damage. If you are not comfortable performing this task, consult a qualified technician.

- Ensure the power supply to the appliance is completely disconnected and verified before beginning work.
- Discharge the old capacitor safely before removal. Capacitors can store a significant electrical charge even after power is disconnected.
- Wear appropriate personal protective equipment (PPE), including safety glasses and insulated gloves.
- Verify that the replacement capacitor's specifications (voltage, capacitance, Hz) match or exceed the original component's requirements.

3. INSTALLATION (REPLACEMENT)

This capacitor is intended as a replacement part. Follow these general guidelines for safe and proper installation:

1. **Power Disconnection:** Locate the main power switch for the equipment (e.g., HVAC unit, motor) and turn it OFF. For added safety, turn off the corresponding circuit breaker at your electrical panel.
2. **Access the Capacitor:** Open the access panel on your equipment to locate the existing capacitor.
3. **Discharge the Old Capacitor:** Using a properly insulated screwdriver with an insulated 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 observe and note the wiring connections to the old capacitor. Taking a photograph can be helpful for reassembly.
5. **Remove Old Capacitor:** Disconnect the wires from the old capacitor and remove it from its mounting bracket.
6. **Verify Compatibility:** Before installing the new capacitor, confirm that its specifications meet the requirements of your equipment.
 - The voltage rating of the new capacitor must be equal to or higher than the original.
 - The capacitance (MFD/ μ F) must match the original capacitor exactly.
 - The Hertz (Hz) rating should match the original.
 - The terminal type (push-on tab) should be compatible.
 - Consider the physical size and shape to ensure it fits within the available space.
7. **Install New Capacitor:** Place the new UpStart Components capacitor into the mounting bracket.
8. **Connect Wiring:** Reconnect the wires to the new capacitor's terminals exactly as they were connected to the old one. Ensure all connections are secure.
9. **Secure Access Panel:** Close and secure the equipment's access panel.
10. **Restore Power:** Turn the circuit breaker back ON, then turn the main power switch for the equipment back ON.
11. **Test Operation:** Verify that the equipment operates correctly.



Image 2: A close-up of the capacitor's label, showing specifications like MFD, Voltage, and Hertz.

4. OPERATION

Once correctly installed, the run capacitor operates continuously whenever the motor it serves is running. It does not require user interaction during operation. Its function is to maintain the phase shift in the motor windings, which is

crucial for the motor's efficiency and smooth operation.

The capacitor helps to:

- Provide a starting torque for the motor.
- Improve the motor's power factor.
- Reduce energy consumption.
- Ensure consistent motor speed.

5. MAINTENANCE

Run capacitors are sealed components and are not designed for user maintenance or repair. Regular inspection of the capacitor and its connections is recommended as part of routine equipment maintenance.

During inspection, look for the following signs of capacitor failure:

- **Bulging:** The top or sides of the capacitor appear swollen or distended.
- **Leaking:** Oily residue or fluid visible on or around the capacitor.
- **Burn Marks:** Discoloration or charring on the capacitor casing or terminals.
- **No Continuity:** If tested with a multimeter, a failed capacitor may show no continuity across its terminals (after proper discharge).

If any of these signs are present, the capacitor should be replaced following the installation instructions in Section 3.



Image 3: An angled view of the capacitor, showing its oval shape and terminal connections.

6. TROUBLESHOOTING

If your equipment is experiencing issues that you suspect are related to the capacitor, consider the following:

- **Motor Not Starting:** A common symptom of a failed run capacitor is a motor that hums but does not start, or starts slowly and then stalls.
- **Reduced Efficiency:** If the motor is running but consuming more power or operating less efficiently, the capacitor may be weakening.
- **Overheating:** A faulty capacitor can cause the motor to overheat.

Before replacing, always perform a visual inspection for signs of failure (bulging, leaking, burn marks) as described in the Maintenance section. If visual inspection confirms damage or if a multimeter test indicates a fault (after safely discharging), replace the capacitor according to the instructions in Section 3.

7. SPECIFICATIONS

Feature	Detail
Brand	UpStart Components
Model Number	CAP-97F5705
Type	Run Capacitor
Capacitance	5 MFD (Microfarad)
Operating Voltage	370 Volts
Hertz	50/60Hz
Case Style	Oval
Terminal Type	Push On Tab
Material	Copper
Product Dimensions	2.1 x 1.5 x 3.5 inches
UPC	628586034662

8. WARRANTY AND SUPPORT

This product is a replacement part manufactured by UpStart Components. Any warranties for this product are offered solely by UpStart Components.

For specific warranty details, technical support, or further assistance, please visit the official UpStart Components website or contact their customer service directly. Contact information can typically be found on their official website or product packaging.

Note: This product is not affiliated with any OEM brands mentioned for compatibility purposes, and is not covered under any warranties offered by the original manufacturers. All mentions of brand names or model descriptions are made strictly to illustrate compatibility.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

<https://manuals.plus/asin/B01MYQ9FFH>

More documents and user manuals: <https://manuals.plus/>