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## Makita 460008-E

# Makita 460008-E Start Capacitor 300Mfd

INSTRUCTION MANUAL

## Introduction

This manual provides essential information for the safe and effective use of the Makita 460008-E Start Capacitor 300Mfd. Please read these instructions carefully before installation and operation. Retain this manual for future reference.

The Makita 460008-E is an Original Equipment Manufacturer (O.E.M.) authorized replacement part designed to fit various Makita models. It is a 300 Microfarad (Mfd) start capacitor, crucial for providing the initial torque required to start electric motors in compatible power tools.

**Safety Notice:** Always disconnect power to the tool before installing or servicing electrical components. Capacitors can store electrical charge even after power is disconnected. Exercise extreme caution and consult a qualified technician if you are unsure about any procedure.

## Product Overview






**Figure 1:** Makita 460008-E Start Capacitor 300Mfd. This image displays the cylindrical capacitor with two terminals on top, labeled with specifications such as "CAP.: 300 MFD", "W.V.: 125 V.AC", and "50/60Hz -25°C~+70°C". The brand "ABC" and "MADE IN TAIWAN" are also visible.

The start capacitor is a critical component in many electric motors, providing a temporary boost of current to the motor's start winding. This allows the motor to overcome inertia and begin rotating. Once the motor reaches a certain speed, the start capacitor is typically disengaged from the circuit.

## Installation Instructions

1. **Safety First:** Ensure the power tool is completely disconnected from its power source before beginning any installation. Verify that no residual charge remains in the system, especially from existing capacitors.

2. **Access the Motor:** Carefully open the housing of the power tool to access the motor and the existing capacitor (if any). Refer to your specific power tool's service manual for detailed disassembly instructions.
3. **Identify and Remove Old Capacitor:** Locate the old start capacitor. Note its orientation and wiring connections. Take a photograph if necessary for reference. Carefully disconnect the wires from the old capacitor.
4. **Install New Capacitor:** Connect the wires to the new Makita 460008-E Start Capacitor 300Mfd. Ensure connections are secure and match the original wiring configuration. This capacitor features two terminals for connection.
5. **Secure the Capacitor:** Place the new capacitor securely within the tool's housing. Ensure it does not interfere with moving parts or other electrical components.
6. **Reassemble:** Carefully reassemble the power tool's housing, ensuring all screws and fasteners are tightened appropriately.
7. **Test:** Before full operation, perform a brief test to ensure the motor starts correctly and operates smoothly.

***Important:*** *Incorrect installation can lead to damage to the tool or personal injury. If you are not confident in performing this installation, seek assistance from a qualified service technician.*

## Operation

The Makita 460008-E Start Capacitor 300Mfd operates automatically within the motor's electrical circuit. Its function is to provide the necessary phase shift and current boost to the start winding during the motor's initial startup sequence. Once the motor reaches approximately 75% of its operating speed, a centrifugal switch (or other mechanism) typically disconnects the start winding and capacitor from the circuit, allowing the motor to run solely on its main winding.

No direct user interaction is required for the capacitor's operation once correctly installed. The capacitor's performance is integral to the motor's ability to start efficiently and reliably.

## Maintenance

The Makita 460008-E Start Capacitor 300Mfd is a sealed component and generally requires no routine maintenance. However, periodic inspection of the capacitor and its connections is recommended during other tool maintenance procedures.

- **Visual Inspection:** Check for any signs of physical damage, such as bulging, leaks, cracks, or discoloration on the capacitor casing.
- **Connection Integrity:** Ensure that the electrical connections to the capacitor are clean, tight, and free from corrosion.
- **Environmental Conditions:** Ensure the tool is operated and stored within appropriate temperature and humidity ranges to prevent premature component degradation. The capacitor is rated for -25°C to +70°C.

If any damage or malfunction is observed, the capacitor should be replaced immediately by a qualified technician.

## Troubleshooting

A faulty start capacitor can manifest in several ways. If your power tool's motor exhibits any of the following symptoms, the start capacitor may need replacement:

- **Motor Hums but Does Not Start:** This is a common symptom of a failed start capacitor. The motor receives power but lacks the initial torque to begin rotation.
- **Slow or Delayed Start:** The motor struggles to get up to speed, taking longer than usual to reach full operating RPM.
- **Overheating Motor:** If the motor attempts to start repeatedly without success, it can lead to overheating.
- **Visible Damage:** A bulging, leaking, or otherwise physically damaged capacitor is a clear indication of failure.

**Resolution:** If these symptoms occur, disconnect power immediately. Inspect the capacitor for visible damage. If no

visible damage, testing the capacitor with a multimeter (capacitance function) can confirm its functionality. If found faulty, replace it with a genuine Makita 460008-E Start Capacitor 300Mfd.

## Specifications

| Feature | Detail |
|---|---|
| **Part Number** | 460008-E |
| **Brand** | Makita |
| **Capacitance** | 300 Microfarad (Mfd) |
| **Working Voltage (W.V.)** | 125 V.AC |
| **Frequency** | 50/60 Hz |
| **Operating Temperature** | -25°C to +70°C |
| **Item Weight** | 2.56 ounces |
| **Product Dimensions** | 4 x 1.75 x 1.75 inches |
| **Material** | Plastic |
| **Mounting Type** | Through-Hole Mount |
| **Origin** | Made in Taiwan (as per image OCR) |

## Warranty and Support

For warranty information or technical support regarding your Makita 460008-E Start Capacitor 300Mfd, please refer to the documentation provided with your specific Makita power tool or visit the official Makita website. As an O.E.M. authorized part, it is covered under Makita's standard parts warranty.

You can also visit the Makita Store on Amazon for additional product information and support resources.


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