

Century UST1152

Century Electric UST1152 1.5-Horsepower Up-Rated Round Flange Pool Pump Replacement Motor Instruction Manual

Model: UST1152

1. SAFETY INFORMATION

Please read and understand all safety instructions before installing, operating, or performing maintenance on this motor. Failure to follow these instructions may result in serious injury, death, or property damage.

- **Electrical Hazard:** Installation and servicing must be performed by a qualified electrician or certified pool technician in accordance with all local and national electrical codes. Ensure power is disconnected at the circuit breaker before any work is performed on the motor or pump system.
- **Proposition 65 Warning:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
- **Pump Seal Replacement:** When replacing the pump motor, it is strongly recommended that the pump seal (sold separately) also be replaced. Failure to do so may lead to leaks and potential damage to the pump or motor.
- **Secure Installation:** Ensure the motor is securely mounted to prevent vibration and movement during operation.

2. PRODUCT OVERVIEW

The Century Electric UST1152 is a 1.5-horsepower up-rated round flange replacement motor designed for swimming pool pumps. This motor features a threaded shaft and is compatible with most pumps requiring a round flange motor. It is designed to operate on both 115 and 230-Volts, offering versatility for various pool pump systems.

The UST1152 is specifically compatible with Hayward Super, Super II, and Max-Flow pumps, Jacuzzi Magnum pumps, and Pentair Pinnacle pumps.

Key Features:

- High-quality, super efficient design.
- Corrosion-resistant outer shell for extended durability.
- Standard round flange design for broad compatibility.
- Easy wiring access for simplified installation.



Image 2.1: Front view of the Century Electric UST1152 pool pump replacement motor, showing the main body and shaft.

3. SETUP AND INSTALLATION

Installation of this replacement motor should only be performed by a qualified professional. Incorrect installation can lead to electrical hazards, motor damage, or system malfunction.

3.1 Pre-Installation Steps:

1. **Disconnect Power:** Ensure all power to the pool pump system is completely disconnected at the main circuit breaker. Verify with a voltage tester.
2. **Drain System:** Drain the pool pump and filter system to prevent water spillage during motor removal.
3. **Remove Old Motor:** Carefully disconnect all wiring from the old motor, noting the connections. Unbolt the old motor from the pump housing.
4. **Replace Pump Seal:** Install a new pump seal (sold separately) according to the pump manufacturer's instructions. This is a critical step for preventing leaks and ensuring motor longevity.

3.2 Motor Installation:

1. **Mount Motor:** Align the new UST1152 motor with the pump housing and secure it using the appropriate bolts. Ensure a snug fit without overtightening.
2. **Wiring Connections:** Access the wiring compartment. The motor is designed to operate on both 115V and 230V. **Crucially, verify the factory voltage setting before connecting.** The motor may come pre-configured for 230V. If your system requires 115V, adjust the internal wiring plug as necessary. Refer to the wiring diagram on the motor label for correct connections.
3. **Connect Electrical:** Connect the electrical supply wires to the motor terminals as per the wiring diagram and local electrical codes. Ensure all connections are tight and secure.
4. **Grounding:** Connect the motor to the bonding system as required by local codes.
5. **Close Compartment:** Securely close the wiring compartment cover.

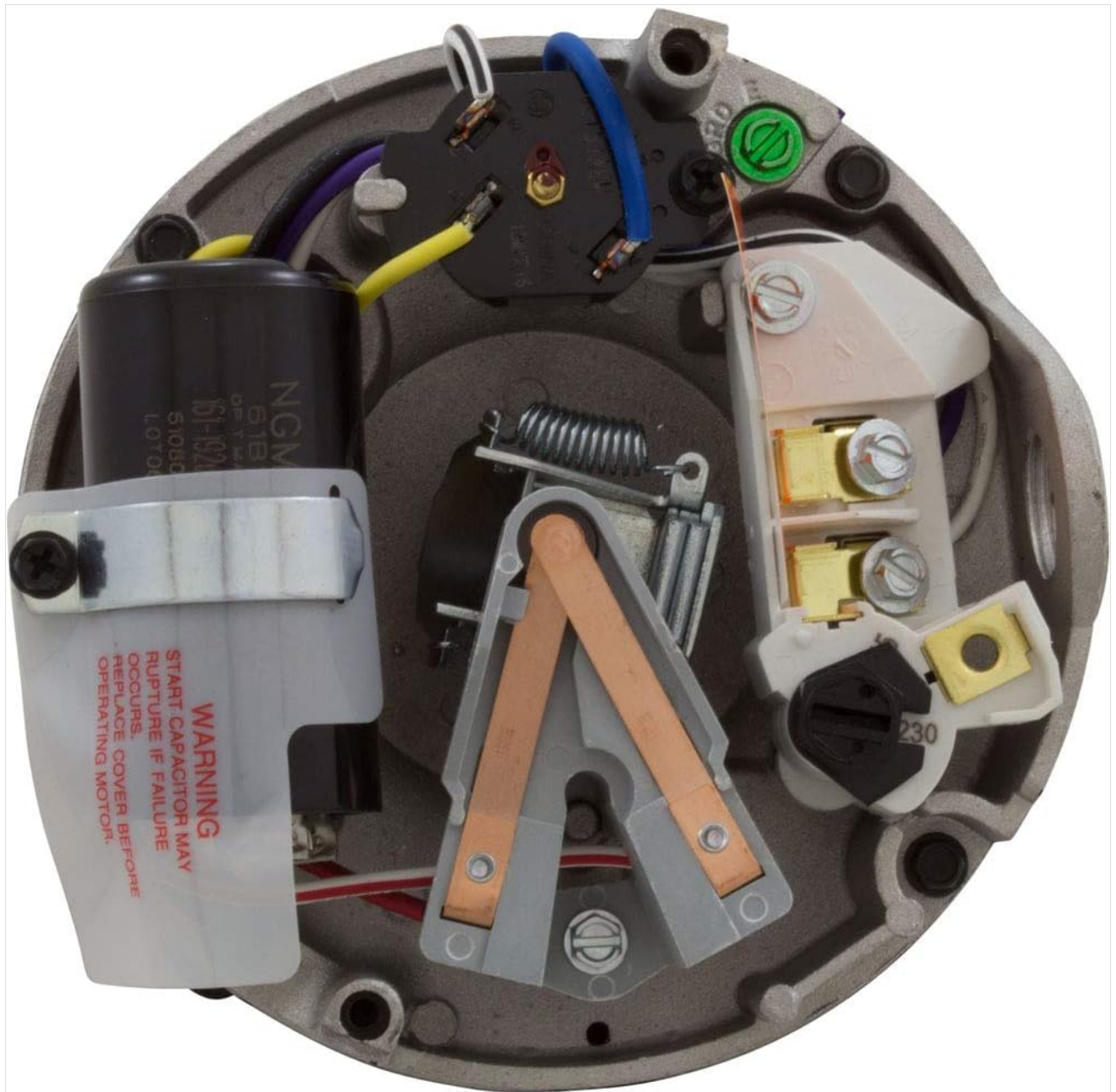


Image 3.1: Internal view of the Century Electric UST1152 motor's wiring compartment, showing the capacitor and voltage selection switch.



Image 3.2: Close-up of the Century Electric UST1152 motor's specification label, detailing electrical ratings and warnings.

4. OPERATION

Once properly installed, the Century Electric UST1152 motor will power your pool pump to circulate water. Ensure the pump is primed before starting the motor to prevent dry running, which can cause damage.

- **Initial Start-up:** After installation, slowly open all valves and ensure the pump basket is clear. Restore power to the system. The motor should start smoothly and operate quietly.
- **Monitoring:** Observe the pump and motor for any unusual noises, vibrations, or leaks during the first few minutes of operation. If any issues are detected, immediately shut off power and consult a qualified technician.
- **Normal Operation:** The motor is designed for continuous operation as required by your pool's filtration schedule.

5. MAINTENANCE

The Century Electric UST1152 motor is designed for durability with a corrosion-resistant outer shell. Regular maintenance of your overall pool system will contribute to the motor's longevity.

- **Keep Clean:** Periodically clean the exterior of the motor to prevent dust and debris buildup, which can impede cooling.
- **Ventilation:** Ensure the motor has adequate ventilation. Do not obstruct the motor's cooling fins or vents.
- **Inspect for Leaks:** Regularly check the pump and motor area for any signs of water leaks. Address any leaks promptly, as water intrusion can severely damage the motor.
- **Professional Inspection:** Consider annual professional inspection of your pool pump and motor system to ensure optimal performance and identify potential issues early.

6. TROUBLESHOOTING

If your Century Electric UST1152 motor is not functioning as expected, review the following common issues before contacting a service professional.

- **Motor Hums but Does Not Start:**
 - **Check Power:** Ensure the motor is receiving the correct voltage (115V or 230V) and that the circuit breaker has not tripped.
 - **Verify Wiring:** Confirm that all electrical connections are secure and correctly wired according to the motor's label.
 - **Inspect Capacitor:** A faulty start capacitor can cause humming without starting. This component may require replacement by a qualified technician.
- **Motor Does Not Turn On:**
 - **No Power:** Check the circuit breaker and all electrical connections.
 - **Thermal Overload:** The motor may have overheated and tripped its internal thermal overload protector. Allow it to cool down before attempting to restart. Ensure adequate ventilation.
- **Excessive Noise or Vibration:**
 - **Loose Mounting:** Check if the motor is securely bolted to the pump housing.
 - **Pump Issues:** Problems within the pump itself (e.g., clogged impeller, worn bearings) can cause motor noise.

For issues not resolved by these steps, or if you are uncomfortable performing electrical checks, contact a qualified pool technician.

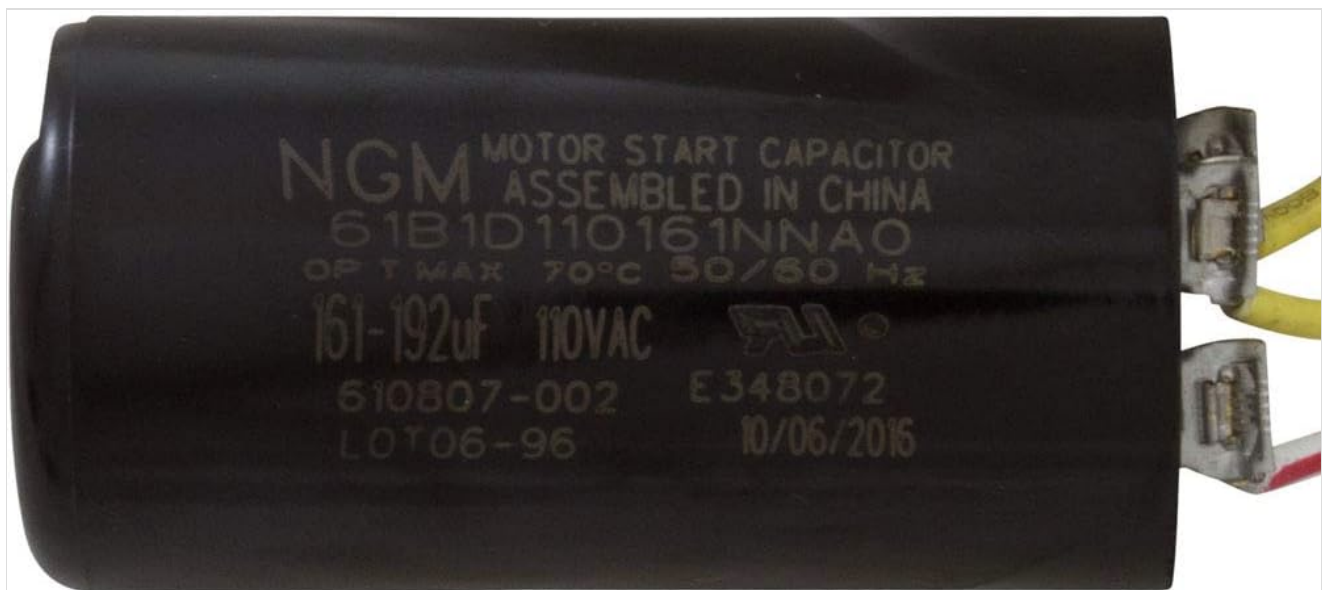


Image 6.1: A typical motor start capacitor, a component that may need inspection if the motor hums but does not start.

7. SPECIFICATIONS

Specification	Detail
Brand	Century
Model Number	UST1152
Horsepower	1.5 HP
Voltage	115/230 Volts
Speed	100 RPM (Nominal)
Product Dimensions	9"W x 9"H
Material	Copper (Internal Windings)
Item Weight	24.5 Pounds
Manufacturer	A.O. Smith (Original Design/Manufacturing)
UPC	852669628527, 737946437088, 737993427353, 663001379454, 786674033345, 663001192787
Part Number	UST1152
Color	Black
Flange Type	Round

8. WARRANTY AND SUPPORT

This Century Electric motor is typically covered by a manufacturer's warranty against defects in materials and workmanship. The duration and terms of the warranty may vary. Please retain your proof of purchase for warranty claims.

For technical assistance, warranty inquiries, or to locate authorized service centers, please contact Century Electric customer support directly. Refer to the contact information provided with your product packaging or visit the official Century Electric website.

Note: Unauthorized repairs or modifications may void the product warranty.

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