

**Product Type** Washer-Extractors  
**Purpose** Reminder  
**Interchangeable** N/A  
**Subject** AC Drive and Motor Replacement and Troubleshooting

---



## WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the machine before servicing.
- Never start the machine with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.

W261

## AC Drive and Motor Replacement

Due to product improvements and obsolescence of parts, your machine may require non-original replacement parts. In order to ensure that you will be provided with parts that are compatible with your machine, all of the following information **MUST** be provided whenever ordering a replacement AC drive or motor.

**NOTE: Complete Section 1 for models manufactured in the United States and Section 2 for models manufactured in Belgium.**

**IMPORTANT: Design 2 Cabinet Hardmount and Design 4 Pocket Hardmount Washer-Extractors are exempt from providing this information as the front end control programs the inverter parameters.**

**Section 1 - Complete this Section for Models Manufactured in the United States**

**NOTE: The following information must be provided for the models that begin with the following prefixes:**  
**UW (excluding Design 4 models), DS**  
**UA, BF, HF, SF, UF**  
**UC, SC, HC, DC (excluding Design 2 models)**  
**IPH, IP, CP, JP**

1. Machine's Model Number: \_\_\_\_\_
  
2. Machine's Serial Number: \_\_\_\_\_
  
3. AC Drive Manufacturer (Examples - Allen-Bradley, Mitsubishi): \_\_\_\_\_
  
4. AC Drive Type (Examples - 160, 1305, 1336, PowerFlex): \_\_\_\_\_
  
5. Motor Manufacturer (Examples - A.O. Smith, US, Reliance): \_\_\_\_\_
  
6. Motor Manufacturer Part Number (Examples - G63653, F-391994-60, 184TTDW16031):  
\_\_\_\_\_
  
7. Motor Pulley Diameter (Measure the pulley's outside diameter [Refer to *Figure 1*] or provide the pulley's part number): \_\_\_\_\_

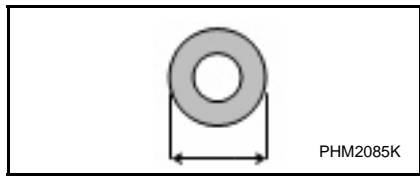


Figure 1

**Section 2 - Complete this Section for Models Manufactured in Belgium**

**NOTE: The following information must be provided for the models that begin with the following prefixes:**  
**HX, NX, SX, UX**  
**HC, IHC, CHC**  
**HF, IHF, CHF**  
**HW, IHW, CHW**  
**WE, IWE, CWE**  
**WF, WFF, IWF, CWF**

- 1. Machine's Model Number: \_\_\_\_\_
- 2. Machine's Serial Number: \_\_\_\_\_
- 3. Measured Input Voltage at AC Inverter Drive:  
R/L1 to S/L2 \_\_\_\_\_  
R/L1 to T/L3 \_\_\_\_\_ (when applicable)
- 4. AC Drive Manufacturer (Examples - Allen-Bradley, Mitsubishi, KEB): \_\_\_\_\_
- 5. AC Drive Type (Examples - E500, D700, PowerFlex): \_\_\_\_\_
- 6. Motor Manufacturer: \_\_\_\_\_
- 7. Motor KW Rating: \_\_\_\_\_
- 8. Belt Type: \_\_\_\_\_ (Flat or V-shaped)
- 9. Basket and motor Pulley Diameter (Measure the pulley's outside diameter [Refer to *Figure 2*] or provide the pulley's part number): \_\_\_\_\_

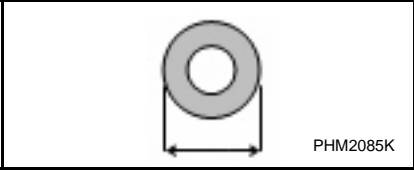


Figure 2

### AC Drive and Motor Troubleshooting

Before requesting an AC drive or motor replacement, be sure to perform the following troubleshooting:

- The AC drive is probably not defective if the machine performs normally when it's basket is empty.
- Determine if any fault codes exist in the AC drive. A parameter unit may be required.
- Verify the AC drive's control signal for each stage of the cycle. For the models in Section 1, refer to the AC Drive Control Logic Charts provided in the AC Drive Supplement Manual F232120, which is available as a download from Parts Connection (under the Related Literature section).
- Check the motor cable for abrasions or pinched areas, which may result in AC drive faults.
- Verify that the motor and drive pulleys are compatible with the AC drive parameter settings. Motor and pulley ratios have changed as improvements were made to machine. Parameter settings must be compatible with the motor and drive pulleys.
- Obtain a copy of the latest AC drive parameter set for the machine and verify the parameter settings. For the models in Section 2, perform an auto-tune and control calibration as needed.