Leeson Motor Field Installation for 7-1/2 HP Load and 7-1/2 HP Unload Applications

Motor Kit Part No.: D04-0655

Instructions for replacing present 7-1/2 HP Baldor motors with Leeson 7-1/2 HP motors.

NOTE: The Leeson motors do not have manual resets, so no bypass wiring is required.

Instruction Manual

PNEG-1765
Date: 08-13-10
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1. Safety

Safety Guidelines

This manual contains information that is important for you, the owner/operator, to know and understand. This information relates to protecting personal safety and preventing equipment problems. It is the responsibility of the owner/operator to inform anyone operating or working in the area of this equipment of these safety guidelines. To help you recognize this information, we use the symbols that are defined below. Please read the manual and pay attention to these sections. Failure to read this manual and its safety instructions is a misuse of the equipment and may lead to serious injury or death.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTE indicates information about the equipment that you should pay special attention.
1. Safety

Follow Safety Instructions

Carefully read all safety messages in this manual and safety signs on your machine. Keep signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from the manufacturer.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machinery in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual or need assistance, contact your dealer.

Practice Safe Maintenance

Understand service procedures before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is in operation. Keep hands, feet and clothing away from rotating parts.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any built up grease oil and debris.

Install Equipment Properly

This equipment shall be installed in accordance with the current installation codes and applicable regulations which should be carefully followed in all cases. Authorities having jurisdiction should be consulted before installations are made.

Operate Motor Properly

In an emergency, shut down the power source.

Turn OFF and lock out all power sources before performing any maintenance.

Do not operate electric motor equipped units until motors are properly grounded.
## 1. Safety

### Stay Clear of Rotating Idler

Entanglement in rotating idlers can cause serious injury or death.

- Keep all shields and covers in place at all times.
- Wear close fitting clothing. Stop and lock out power source before making adjustments, cleaning, or maintaining equipment.

![Entanglement Hazard](image)

### Wear Protective Clothing

Ear plugs or muffs should be worn at all times to protect ears from high noise levels.

- Wear close fitting clothing and safety equipment appropriate to the job.
- Remove all jewelry.
- Long hair should be tied up and back.
- Safety glasses should be worn at all times to protect eyes from debris.
- Wear gloves to protect your hands from sharp edges on plastic or steel parts.
- Wear steel toe boots to help protect your feet from falling debris. Tuck in any loose or dangling shoe strings.
- A respirator may be needed to prevent breathing potentially toxic fumes and dust.
- Wear hard hat to help protect your head.
- Wear appropriate fall protection equipment when working at elevations greater than six feet (6').

### Safety Gear

- **Hearing Protection**
- **Eye Protection**
- **Gloves**
- **Steel Toe Boots**
- **Respirator**
- **Hard Hat**
- **Fall Protection**
Top Auger Motor

Step 1: *(See Figure 2A.)*

1. Remove the belts and sheave from the motor shaft.
2. Replace the present 712-1 Baldor motor with the D03-1010 Leeson motor.
3. Install new 28138-2 sheave on motor shaft.
4. Re-install belts and adjust tension.
5. Re-install belt guard.

*Figure 2A Top Auger Drive Components*
2. Installation

Bottom Auger Motor

Step 2: *(See Figure 2B.)*

1. Disassemble auger cleanout handle mechanism to provide easier access to the motor.
2. Remove belts and sheave from motor shaft.
3. If the dryer is an FFI model with 7" metering rolls, replace the meter roll pan lever with D01-2605. *(See Figure 2C on Page 9.)* This will resolve any interference with the new motor.
4. Replace the present 712-1 Baldor motor with the D03-1010 Leeson motor.
5. Install new 28138-2 sheave on motor shaft.
6. Install new MHC00793 B84 belts and adjust tension.

![Figure 2B](image)

New sheave
(28138-2)

New belts
(MHC00793)

New motor
(D03-1010)

Bottom auger drive components

If this is the FFI dryer, replace meter roll pan lever with D01-2605 before installing new motor.

![Figure 2B](image)

Bottom auger motor
and motor mount
2. Installation

Figure 2C

New lever (D01-2605)
2. Installation

Cleanout Door Mechanism

Step 3: (See Figure 2D below and Figure 2E on Page 11.)

1. To allow adequate clearance between the linkage arm and the motor, move the handle to the left side of the pivot arm weldment.

2. Also, move the linkage arm to the left side of the cleanout door hinge. (See Figure 2E on Page 11.)

3. Adjust linkage for correct operation of the cleanout door.

<table>
<thead>
<tr>
<th>Part No./Process</th>
<th>Critical Process/Inspection Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>N5 Cleanout Door</td>
<td>It is imperative that all GSI and FFI cleanout door brackets be installed on the left side of the handle as shown.</td>
</tr>
<tr>
<td>Reviewed By: Jeff Falconer</td>
<td>Cleanout arm must be fastened at both ends on the left side of the handle.</td>
</tr>
<tr>
<td>Approval:</td>
<td></td>
</tr>
<tr>
<td>Issue Date: 7/15/2010</td>
<td></td>
</tr>
<tr>
<td>Removal Date:</td>
<td></td>
</tr>
</tbody>
</table>

Present assembly

Revise assembly after leeson motor installed

Figure 2D
Figure 2E Cleanout Door Hinge

Move linkage to opposite side
2. Installation

GSI Group Service Report

<table>
<thead>
<tr>
<th>Warranty Reference MTRPORTDRYER10</th>
<th>Date Serviced _______ / _______ / 2010</th>
</tr>
</thead>
</table>

Dealer Name and #:__________________________________________________________
Dealer Address:____________________________________________________________
City_________________________ State____________________ Zip__________________
Dealer Phone: (_____)(_____) - ________

Customer Name:_________________________________________________________________
Customer Address:________________________________________________________________
City_________________________ State____________________ Zip__________________
Customer Phone: (_____)(_____) - ________

Model Number :____________________________________________________________
Serial Number:_________________________________________________________________

Dryer Order Number :_______________________________________________________

Labor $___________ Round Trip Mileage and Amount: _____Miles $___________

Description of reported problem :
Project: MTRPORTDRYER10 - Load and Unload motor replacement
________________________________________________________________________
________________________________________________________________________

Description of service performed :
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Additional Comments : ______________________________________________________
________________________________________________________________________
________________________________________________________________________

Service Technician X_________________________ Date: _________________________

Customer X_________________________ Date: _________________________
### 3. Warranty

#### GSI Group, LLC Limited Warranty

The GSI Group, LLC ("GSI") warrants products which it manufactures to be free of defects in materials and workmanship under normal usage and conditions for a period of 12 months after sale to the original end-user or if a foreign sale, 14 months from arrival at port of discharge, whichever is earlier. The end-user’s sole remedy (and GSI’s only obligation) is to repair or replace, at GSI’s option and expense, products that in GSI’s judgment, contain a material defect in materials or workmanship. Expenses incurred by or on behalf of the end-user without prior written authorization from the GSI Warranty Group shall be the sole responsibility of the end-user.

### Warranty Extensions:

The Limited Warranty period is extended for the following products:

<table>
<thead>
<tr>
<th>Product</th>
<th>Warranty Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Fans and Flooring</td>
<td></td>
</tr>
<tr>
<td>Performer Series Direct Drive Fan Motor</td>
<td>3 Years</td>
</tr>
<tr>
<td>All Fiberglass Housings</td>
<td>Lifetime</td>
</tr>
<tr>
<td>All Fiberglass Propellers</td>
<td>Lifetime</td>
</tr>
<tr>
<td>Cumberland Feeding/Watering Systems</td>
<td></td>
</tr>
<tr>
<td>Feeder System Pan Assemblies</td>
<td>5 Years **</td>
</tr>
<tr>
<td>Feed Tubes (1-3/4” and 2.00”)</td>
<td>10 Years *</td>
</tr>
<tr>
<td>Centerless Augers</td>
<td>10 Years *</td>
</tr>
<tr>
<td>Watering Nipples</td>
<td>10 Years *</td>
</tr>
<tr>
<td>Grain Systems</td>
<td></td>
</tr>
<tr>
<td>Grain Bin Structural Design</td>
<td>5 Years</td>
</tr>
<tr>
<td>Grain Systems Feeder System Pan Assemblies</td>
<td></td>
</tr>
<tr>
<td>Portable and Tower Dryers</td>
<td>2 Years</td>
</tr>
<tr>
<td>Portable and Tower Dryer Frames and</td>
<td></td>
</tr>
<tr>
<td>Internal Infrastructure †</td>
<td>5 Years</td>
</tr>
</tbody>
</table>

GSI further warrants that the portable and tower dryer frame and basket, excluding all auger and auger drive components, shall be free from defects in materials for a period of time beginning on the twelfth (12th) month from the date of purchase and continuing until the sixtieth (60th) month from the date of purchase (extended warranty period). During the extended warranty period, GSI will replace the frame or basket components that prove to be defective under normal conditions of use without charge, excluding the labor, transportation, and/or shipping costs incurred in the performance of this extended warranty.

### Conditions and Limitations:

**THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE LIMITED WARRANTY DESCRIPTION SET FORTH ABOVE. SPECIFICALLY, GSI MAKES NO FURTHER WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE IN CONNECTION WITH: (I) PRODUCT MANUFACTURED OR SOLD BY GSI OR (II) ANY ADVICE, INSTRUCTION, RECOMMENDATION OR SUGGESTION PROVIDED BY AN AGENT, REPRESENTATIVE OR EMPLOYEE OF GSI REGARDING OR RELATED TO THE CONFIGURATION, INSTALLATION, LAYOUT, SUITABILITY FOR A PARTICULAR PURPOSE, OR DESIGN OF SUCH PRODUCTS.**

GSI shall not be liable for any direct, indirect, incidental or consequential damages, including, without limitation, loss of anticipated profits or benefits. The sole and exclusive remedy is set forth in the Limited Warranty, which shall not exceed the amount paid for the product purchased. This warranty is not transferable and applies only to the original end-user. GSI shall have no obligation or responsibility for any representations or warranties made by or on behalf of any dealer, agent or distributor.

GSI assumes no responsibility for claims resulting from construction defects or unauthorized modifications to products which it manufactured. Modifications to products not specifically delineated in the manual accompanying the equipment at initial sale will void the Limited Warranty.

This Limited Warranty shall not extend to products or parts which have been damaged by negligent use, misuse, alteration, accident or which have been improperly/inadequately maintained. This Limited Warranty extends solely to products manufactured by GSI.

Prior to installation, the end-user has the responsibility to comply with federal, state and local codes which apply to the location and installation of products manufactured or sold by GSI.
This equipment shall be installed in accordance with the current installation codes and applicable regulations which should be carefully followed in all cases. Authorities having jurisdiction should be consulted before installations are made.