IMPORTANT PRE-INSTALLATION INFORMATION

⚠️ WARNING

*Failure to observe the following warnings could create a risk of death or serious injury.*

Installation and Service should only be performed by qualified personnel.

All owner/employer safety rules must be strictly followed when working on this equipment. Please read and become familiar to this entire installation guide before beginning any work. Before working on equipment, turn off and lock out/tag out energy source and bleed off all stored energy sources.

If equipment will be installed in an enclosed area, gas levels and/or dust content must be tested before using a cutting torch or welding equipment. The use of a cutting torch or welding equipment in an area with gas or dust may cause an explosion.

Attempting to lift equipment alone could result in serious injury. Components are heavy and require multiple persons or a hoist to lift.

Failure to remove tools from the installation area before turning on the energy source can cause serious injury to personnel.

**LOVEJOY, INC.** hereby disclaims any liability for injuries or damage resulting from use or application of this product contrary to the instructions and specifications contained herein. The instructions that appear in this installation guide cannot cover every condition or situation that may occur in the field. Please consult Lovejoy for conditions or situations not addressed in this manual.

**MATERIALS REQUIRED:** While only standard hand tools are required to install and service this equipment, the additional use of a Torque Indicating Wrench is strongly recommended to ensure all bolts are properly tightened.

**Recommended Tools:**

- 1x—Torque Wrench capable of 300 ft/lbs of torque
- 2x—15/16” Hex Socket
- 1x—1-1/8” Hex Socket
- 1x—55mm Hex Socket
- 1x—5/16” Hex Allen Key

Please note, Lovejoy, Inc. recommends bolting, rather than welding, for easier accessibility and maintenance. Excessive heat will affect or destroy the rubber or polymer elements.

**RunRight RCM C70** Motor Bases are ideal for electric motors from 15 to 200 HP. They are used on 180M to 280M IEC frame sizes and 284T to 445T NEMA frame sizes. They are manufactured with all steel components and Tensys™ 30 rubber inserts, and can be used for applications operating within a -40° to 180° F (-40° to 80° C) temperature range.
Mounting Instructions

WARNING
Failure to observe the following warnings could create a risk of death or serious injury.

Follow all appropriate Lock-Out/Tag-Out procedures. It is recommended that the belt guards be installed before making the test run.

1. Determine proper mounting positions. See Fig. 1
2. Bases are assembled and shipped with the motor top plate (5) located in the “Offset Mounted” position. If necessary remove the top plate and relocate into the alternate “Center Mounted” holes provided in the top plate. The clamp bolts (3) must be re-torqued to 148 ft/lbs.
3. Bolt (DO NOT WELD) side supports to the machine frame using four (4) 3/4” Grade 5 or greater HHCS. (see catalog for dimensions).
4. Bolt motor onto the Top Plate (5) of the Motor base using the motor manufacturers recommended bolt size.
5. Align the pulleys using a straight edge. The Top Plate can easily be moved by loosening the clamp bolts (3).
6. Loosen only, DO NOT REMOVE, the 2 pivot bolts (1) and the Rotary Plate Locking Bolts (2). These bolts must be loosened to properly adjust belt tension.
7. Turn the Adjusting Bolt(s) (4) clockwise, tilting the Top Plate/Motor toward the driven pulley allowing easy installation of the belts. Place the belts on the pulley.
8. With the belts in place, turn the Adjusting Bolt(s) (4) counter-clockwise, tilting the Top Plate/Motor away from the driven pulley until the belts begin to see tension.
9. Double check setup and configuration for proper alignment.
10. Continue turning Adjusting Bolt(s) (4) until proper belt tension as recommended by the belt manufacturer has been achieved.
11. Tighten and Torque the pivot bolts (1) to 260 ft/lbs and the Rotary Plate Locking Bolts (2) to 158 ft/lbs.
12. Make a test run for at least 2 minutes to ensure all is operating properly.
13. Remove power from the drive and re-install any and all belt and/or machine guards that were not previously installed before the test run.
14. Installation is now complete.

NOTE: The re-tensioning of the belt(s) after a period of time as stipulated by the belt manufacturers should be unnecessary. RunRight Motor bases will automatically tension the belts throughout their service life.
Changing Belts

⚠️ WARNING
Failure to observe the following warnings could create a risk of death or serious injury.

Follow all appropriate Lock-Out/Tag-Out procedures.

It is recommended that the belt guards be installed before making the test run.

1. Remove power from the drive and remove the belt and/or machine guards.
2. Crack loose only, DO NOT REMOVE, the 2 pivot bolts (1) and the Rotary Plate Locking Bolts (2). These bolts must be loosened to allow motorbase top plate (5) to tilt forward.
3. Turn the Adjusting Bolt(s) (4) clockwise, tilting the Top Plate/Motor toward the driven pulley allowing easy removal of the worn belts.
4. Remove the worn belts and install new belts.
5. With new the belts in place, turn the Adjusting Bolt(s) (4) counter-clockwise, tilting the Top Plate/Motor away from the driven pulley until the belts begin to see tension.
6. Double check setup and configuration for proper alignment.
7. Continue turning Adjusting Bolt(s) (4) until proper belt tension as recommended by the belt manufacturer has been achieved.
8. Tighten and Torque the pivot bolts (1) to 260 ft/lbs and the Rotary Plate Locking Bolts (2) to 158 ft/lbs.
9. Make a test run for at least 2 minutes to ensure all is operating properly.
10. Remove power from the drive and re-install any and all belt and/or machine guards that were not previously installed before the test run.
11. Installation is now complete.

Troubleshooting Guide

<table>
<thead>
<tr>
<th>TROUBLE</th>
<th>PROBABLE CAUSE</th>
<th>RECOMMENDATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excessive Belt Slippage</td>
<td>Belts not tensioned properly during installation</td>
<td>Re-Check belt tension and Re-Adjust motorbase if necessary. Consult the belt manufacturer for proper tensioning method and tension.</td>
</tr>
<tr>
<td>Excessive motor movement at startup or under heavy load</td>
<td>Motorbase element does NOT have sufficient pre-load applied to it.</td>
<td>Check the Deflection Angle indicator located on the end of the motorbase element. The ideal indicated deflection angle should be between 10° and 30°. If the belt tension is properly set and the deflection angle is less than 10° or more than 30°, the Motorbase is improperly sized for the application. Consult factory for proper sizing requirements.</td>
</tr>
<tr>
<td>Broken Pivot Bolt(s)</td>
<td>Pivot Bolt(s) were not properly tightened during installation.</td>
<td>Replace pivot bolt and torque to 260 ft/lbs. Use a torque indicating wrench if at all possible.</td>
</tr>
<tr>
<td>Broken Top Plate Clamp(s)</td>
<td>Clamp bolts were not properly tightened during installation</td>
<td>Replace clamp(s) and bolt(s). Torque bolts to 158 ft/lbs. Use a torque indicating wrench if at all possible.</td>
</tr>
<tr>
<td>Rattling Noise</td>
<td>Pivot Bolts and/or Rotary Plate locking bolts not properly tightened during installation</td>
<td>Tighten all bolts to recommended torque specified in the INSTALLATION GUIDE of the motorbase.</td>
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<tr>
<td>Entire Motorbase is Moving (bouncing)</td>
<td>Machine frame not sufficient for the mounting of the Motorbase.</td>
<td>Add material and/or fabricate proper mount using a minimum of 3/8&quot; thick steel plate.</td>
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