

How To Use This Manual

This manual provides detailed instructions on installation and maintenance of Orange Peel Guards, Type PCG, Size 15, Pump Spacer Coupling Guard.

CAREFULLY FOLLOW THE INSTRUCTIONS IN THIS MANUAL AND SUPPLEMENTAL POWER TOOL MANUALS FOR OPTIMUM SAFETY AND PERFORMANCE.

Introduction

NOTICE: Install and operate Orange Peel Guard products in conformance with applicable local and national safety codes, and per the supplied Orange Peel Guard installation and maintenance manual. Orange Peel Guards are supplied with molded ANSI Z535.4 English warning labels. Optional ISO 3864 (P.N. 2924292) Symbol based Warning Labels can be supplied if required. It is the responsibility of the end user to determine if translated warning labels or symbol based safety training are required in their facility, to ensure complete understanding of the warning being communicated. Custom translated warning labels are also available, upon request.

Caution: Observe all safety rules when installing or servicing guards and equipment.

WARNING: Exposed moving parts can cause severe injury. LOCK OUT POWER at the starting switch of the prime mover and remove all external loads from the equipment before opening or removing the guard. Do not use the guard as a step.

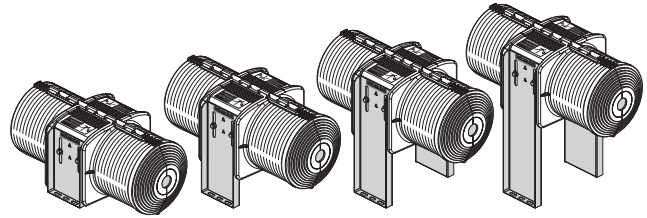
Installation

Installation of Orange Peel Guards requires standard mechanics tools such as a power saw or handsaw, and a drill. Examples are as follows:

- Band saw, circular saw, reciprocating saw, or hand saw with a blade suitable for cutting Polyethylene and steel.
- Electric or hand drill.
- 8mm hex head sockets/ socket wrench or open-end wrench.
- Torque wrench
- Tape measure
- Coarse sandpaper, file, or other appropriate de-burring tool.
- Optional 3mm/ .125 stainless steel pop rivets (8) and installation tool (for mechanical attachment of warning labels).

LOCK OUT POWER at the starting switch of the prime mover. Clean all installation surfaces. Remove parts from the shipping boxes and verify quantities:

1. Service manual (1)
2. Guard body (guard halves w/ hinge pin installed)
3. End cap halves (2)
4. Metal Legs (2)
5. Backing Plates (2)
6. Hex head bolts (4)
7. Hole plugs (4)
 - Foundation fasteners (2-4) provided by customer; depending upon leg kit height.

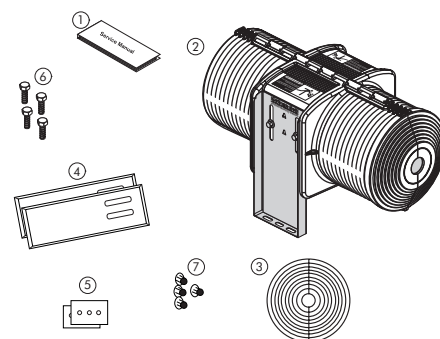
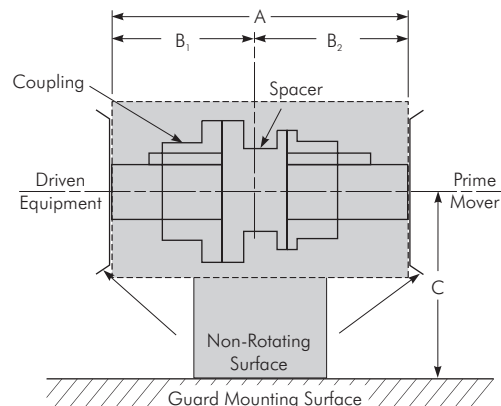


Measurements

Determine and record the following trimming dimensions:

- A _____ Trimming of end cap will affect "A" dimension. Refer to End Cap Halves for calculation.
- B₁ _____ Note: Coupling hubs can be overhung to increase dimension B.
- B₂ _____
- C _____ Leg kit supplied is for a specific centerline range. If C dimension required differs from the C dimension capable with current leg kit, please contact your Rexnord representative for correct leg kit.

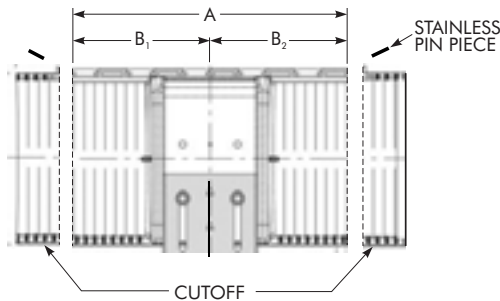
WARNING: Accurate measurements are required! It is the installer's responsibility to limit all interface gaps to less than 6mm/ .250".



Guard Trimming and Pre-Assembly

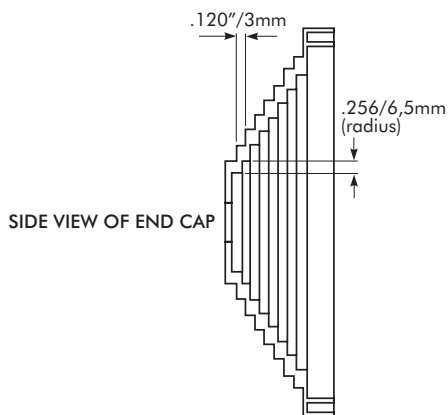
Guard Body:

Locate and mark the extension trim lines that correspond to the recorded measurements. Allow for proper clearances. These can be scribed to ensure a straight cut. Be sure to double-check your work. The numbers molded into the extensions indicate the distance from the guard centerline, for trimming reference. Remember to calculate in the trimmed end cap dimension before cutting the guard if the end cap is used. It is recommended to first cut the stainless steel hinge pin with an appropriate metal cutting tool in the marked area for guard trimming and use a pair of pliers or equivalent tool to pull out the loose piece of the pin before proceeding on to cutting the rest of the guard body. Next, support the guard half to be trimmed. It should be held firmly and allow for the safe trimming following the sawing tool manufacturers operating instructions. Be sure to read the operating instructions thoroughly. Trim the guard halves being careful around the pre-trimmed stainless steel hinge pin. Sand or file the edges smooth.



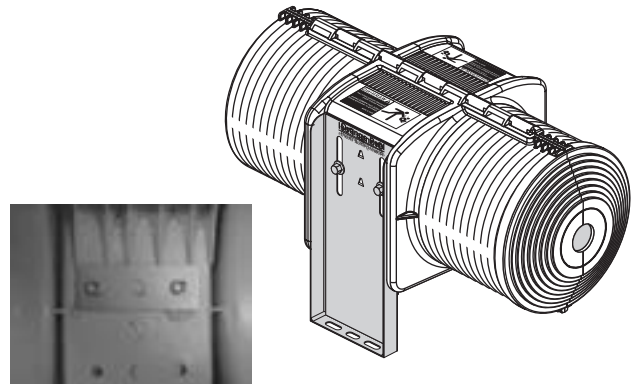
End Cap:

End cap is required if final assembly gaps are greater than .250"/6mm or cap is required to accommodate the overall length ("A"). End cap I.D. can be cut to fit shaft or seal diameter. Only allow a maximum of .250"/6mm clearance. Be careful, cutting the end cap will affect the overall "A" and "B" dimension of the guard assembly. Allow for the trimming of the end cap when measuring/ trimming your B dimension on the guard body. The overall length of the guard assembly will be reduced by .120"/3mm for every .512"/13mm of diameter trimmed from the cap.



Guard Assembly:

After trimming of guard halves and end cap, if used, is completed attach both legs using supplied backing plates and supplied fasteners. Mount each leg by placing backing plate on the inside of the guard on location boss, select pilot holes based on centerline location and place leg on outside opposing surface, use two of the supplied 8mm fasteners to attach leg to backing plate through the guard body half. Tighten fasteners enough to keep in place. Repeat process for other leg; be sure to use same pilot hole location.

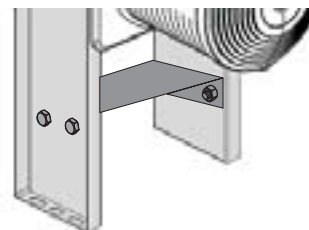


Guard Installation

Foundation attachment

Position the guard with end cap, if used, and leg kit installed in its final position. Be sure that gaps no greater than .250"/6mm exist. Adjust guard body on both legs to desired centerline location making sure that proper clearances are left. Tighten leg retaining fasteners on both legs to 180lb-in/20Nm. Mark the foundation drilling location in the center of the guard legs middle hole. When using leg kits for centerline distances of 15.00"/380mm or higher mark the foundation drilling location in the two outside slotted holes in each leg. Drill through or tap a hole in foundation for use with the customer supplied .3125"/8mm fasteners. Tighten fasteners to 180 lb-in/ 20Nm.

If leg kit for centerlines of 16.5"/419mm to 20.5"/521mm is used, attach supplied stabilizer channel between the two legs using 4 of the supplied 8mm fasteners. Tighten fasteners to 180lb-in/20Nm.



Prior to starting equipment, inspect guard installation for proper clearances.

Safety Labels

ANSI Warning labels have been molded into the guard halves. If an ISO label has been supplied, clean the area, and install the safety label. For severe wash down or other environments requiring mechanical label attachment, pop rivets can be utilized. Use 4, 3mm/.125" medium length stainless steel pop rivets at the label corners to provide mechanical attachment.



Equipment Servicing

WARNING: LOCK OUT POWER at the starting switch of the prime mover and remove all external loads from equipment before opening or removing the guard.

To open the guard, remove the base mounting fastener(s) and stabilizer channel mounting fasteners, if used, from one side of guard. Open the guard by rotating leg upwards. Be sure to secure guard in opened position. If a major repair is being made, completely remove the guard from the foundation or machine and re-install BEFORE equipment is unlocked and started.

Guard Maintenance

Orange Peel Guards are virtually maintenance free. The guard body never needs painting and is supplied with non-corrosive stainless steel hardware. Legs may require periodic painting. Periodic visual inspection should be performed every 60 days along with general equipment inspections with equipment shutdown and locked out. Check the guard for any damage or component failure. Check tightening torques on all fasteners. Also, make sure that the safety labels are clean and legible. If the safety label becomes loose, damaged, or is not legible, contact an authorized Rexnord distributor or a Rexnord representative for replacement labels or guard replacement parts.