

Rhino[®] Packing Gland Tool

1. Description

See Figure 1.

The Rhino packing gland tool is used to remove the packing gland from Rhino bulk unloader pumps. The tool consists of two components, a cap lock (1) with slide lock (2) and the tool base (3). The tool attaches to the Rhino packing gland (6) and uses the air motor to pull the packing gland out of the pump assembly.

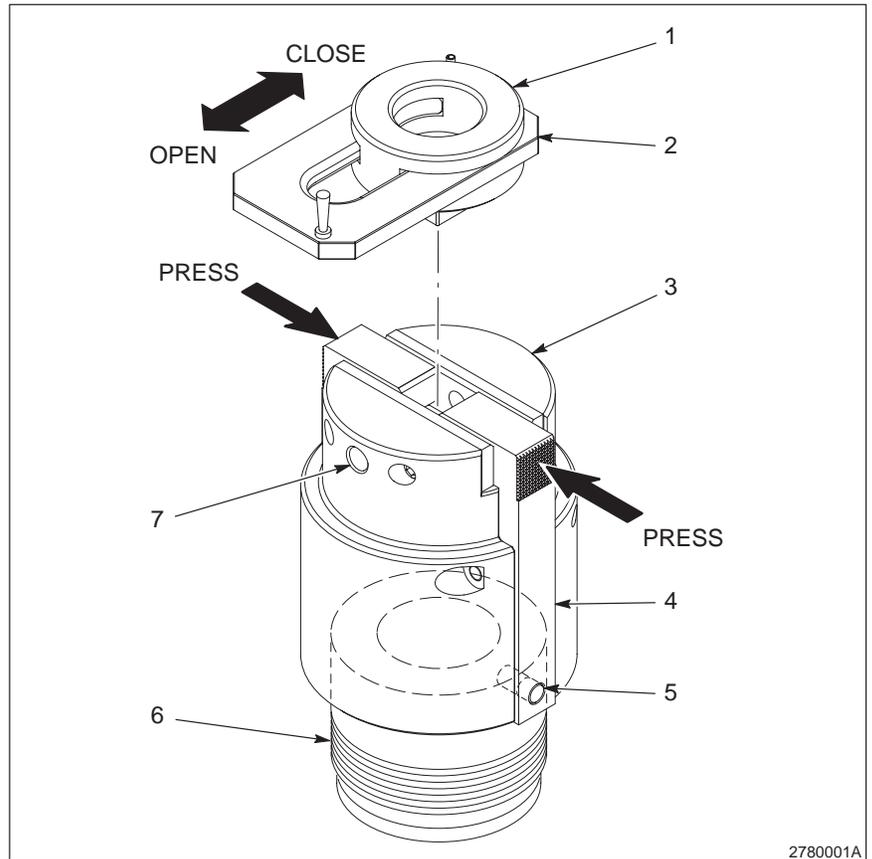


Fig. 1 Rhino Packing Gland Tool

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|---------------|------------------|
| 1. Cap lock | 5. Dowel pin |
| 2. Slide lock | 6. Packing gland |
| 3. Tool base | 7. Coupling hole |
| 4. Lever arm | |

2. Operation



WARNING: Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.

Removing the Rhino Unloader Coupling

Perform these steps to remove the coupling from your Rhino unloader:

See Figure 2.

NOTE: Refer to the Rhino unloader manual for operation and coupling removal information.

1. Down stroke the pump to the point where the coupling screws (2) are still accessible.
2. Use a hex key to remove the coupling screws.
3. Remove the coupling (1) and continue to downstroke the pump to the lowest position.
4. Raise the air motor plunger to gain access to the packing gland.

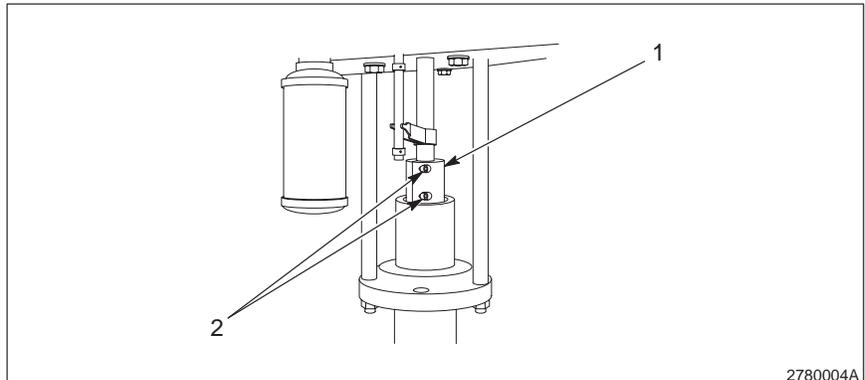


Fig. 2 Removing the Coupling

1. Coupling

2. Coupling screws

Removing the Packing Gland



WARNING: Severe personal injury could result if your hands or fingers are caught between the air motor plunger and the Rhino packing gland tool. Keep your hands clear of this area when the air motor plunger is in motion.

Perform these steps to remove the packing gland:

See Figure 1.

1. Drain the solvent chamber fluid and remove the solvent chamber. Refer to the *Rhino Unloader Packing Gland Replacement* operator's card for more information.
2. Press in the lever arms (4) before placing the tool base over the packing gland.
3. Place the tool base (3) on top of the packing gland (6).
4. Release the lever arms and rotate the tool until the dowel pins (5) fully engage into the spanner wrench holes.
5. Insert a $\frac{3}{4}$ -in. drive ratchet into the top of the tool base and turn the packing gland counterclockwise until the packing gland is completely unthreaded. Remove the ratchet.
6. Insert the square base of the cap lock (1) into the matching opening in the top of the tool base.
7. Insert a metal rod, screwdriver or equivalent into the coupling hole (7) to link the cap lock with the tool base.
8. Move the slide lock (2) to the open position and lower the air motor plunger into the cap lock.
9. Move the slide lock to the closed position and raise the air motor plunger to pull the packing gland out of the pump assembly.
10. Move the slide lock to the open position and raise the air motor plunger out of the cap lock.
11. Remove the cap lock from the tool base.
12. Press the lever arms to release the packing gland.

Installing the New Packing Gland



WARNING: Severe personal injury could result if your hands or fingers are caught between the air motor plunger and the Rhino packing gland tool. Keep your hands clear of this area when the air motor plunger is in motion.

See Figure 1.

Perform these steps to install the packing gland:

1. Place the packing gland (6) on top of the pump.
2. Press the lever arms (4) and place the tool base (3) on top of the packing gland.
3. Release the lever arms and rotate the tool base until the dowel pins (5) fully engage into the spanner wrench holes.

See Figure 3.

4. Insert a $\frac{3}{4}$ -in. drive ratchet (4) into the top of the tool base (2).
5. Adjust the air motor regulator to 0 bar (0 psi) and turn on the air motor lockout valve.

Using minimal air pressure (0.34 bar (5 psi) or less), lower the air motor plunger (1) until it touches the top of the wrench.



CAUTION: Do not damage the threads when inserting the packing gland.

6. Turn the drive ratchet clockwise to engage the packing gland threads (3), while continuing to press down with the air motor plunger.
7. Raise the air motor plunger.
8. Tighten the packing gland to 108 N•m (80 ft-lb).
9. Remove the drive ratchet and the tool base.
10. Install the solvent chamber.
11. Connect the air motor plunger with the pump plunger.

Refer to the *Rhino Unloader Packing Gland Replacement* operator's card for more information.

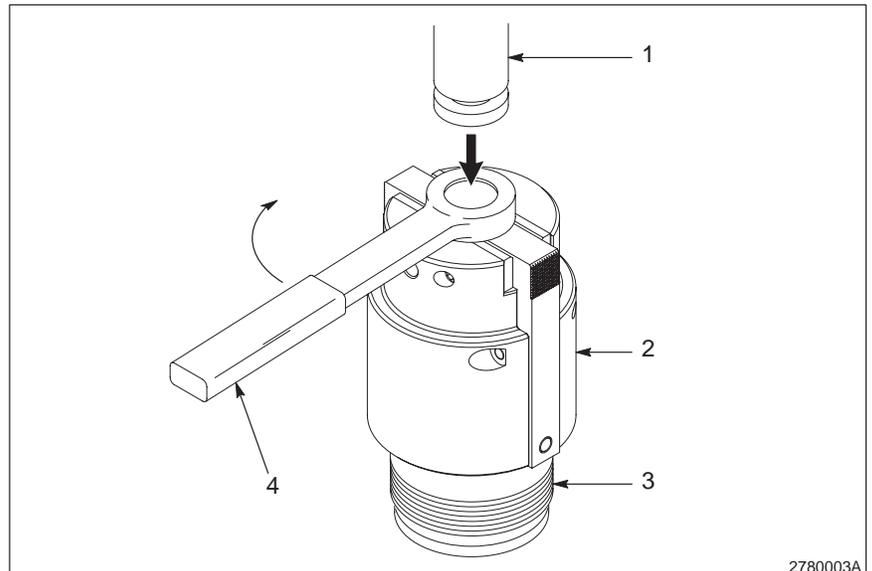


Fig. 3 Rhino Packing Gland Tool

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|----------------------|--------------------------|
| 1. Air motor plunger | 3. Packing gland threads |
| 2. Tool base | 4. Drive ratchet |

3. Parts

To order parts, call the Nordson Customer Service Center or your Nordson representative. Use this parts list and the accompanying illustration to locate and identify parts.

See Figure 4.

Item	Part	Description	Quantity	Note
—	100 1689	Kit, removal, packing gland, pump, Rhino	1	
—	100 5349	• Cap and slide, lock assembly, gland tool	1	
1	-----	• • Slide, lock, gland tool	1	
2	-----	• • Pin, roll, 0.125 x 0.750 in., steel, zinc	1	
3	-----	• • Cap, lock, gland tool	1	
—	100 5431	• Base, lever, bushing, assembly, gland tool	1	
4	-----	• • Lever, arm, gland tool	2	
5	-----	• • Spring, compression, 0.24 OD x 1.38 in. long, 0.030 wire OD	2	
6	-----	• • Base, tool, gland removal	1	
7	-----	• • Ratchet jaw, gland removal	2	
8	-----	• • Screw, socket, #10-32 x 0.750, black	4	
9	-----	• • Pin, dowel, 0.313 x 0.750 in., hardened and ground	2	
10	-----	• • Pin, dowel, 0.250 in., 1.750 in. long, alloy steel, hardened, ground	2	

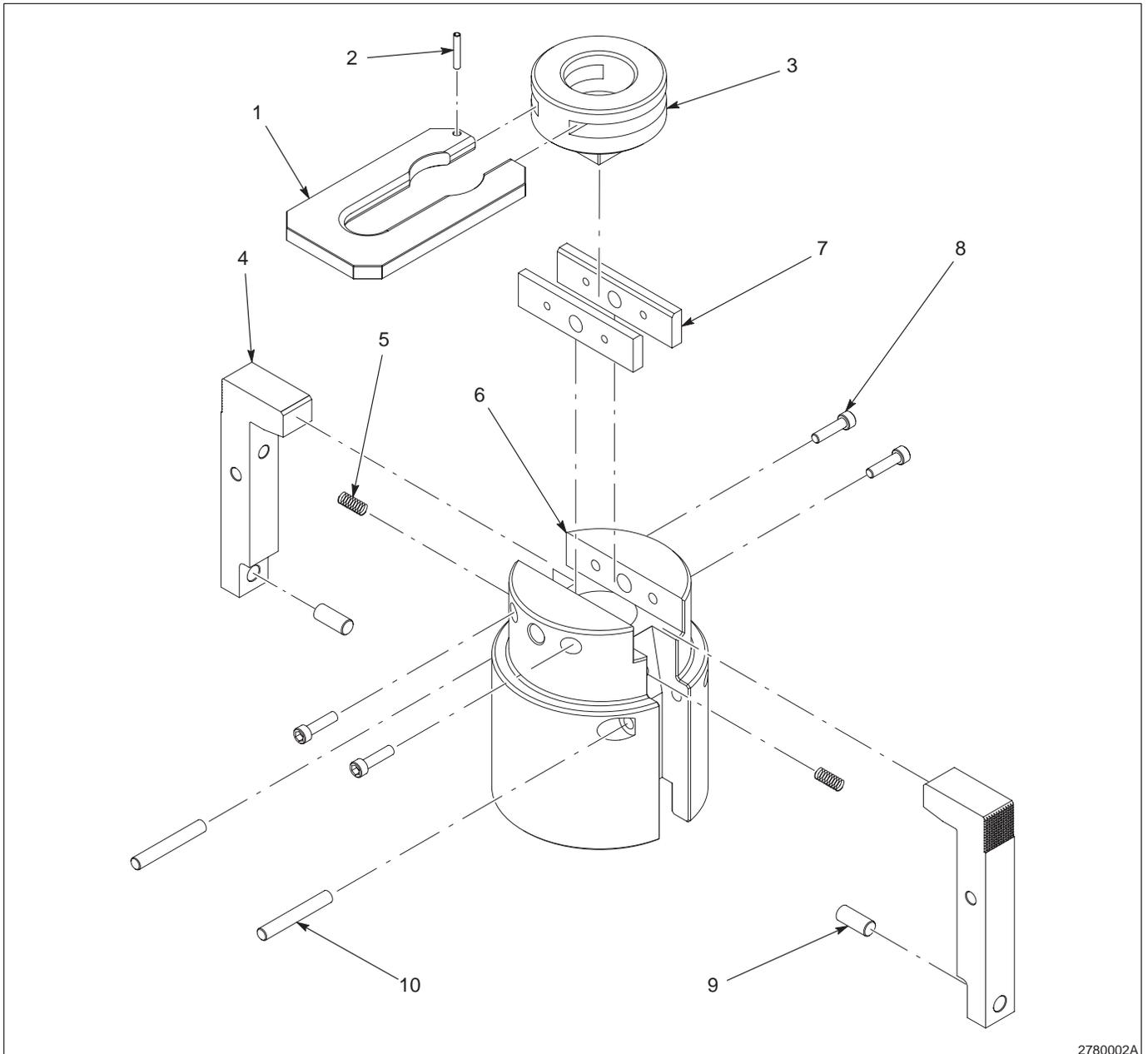


Fig. 4 Rhino Packing Gland Tool Parts

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