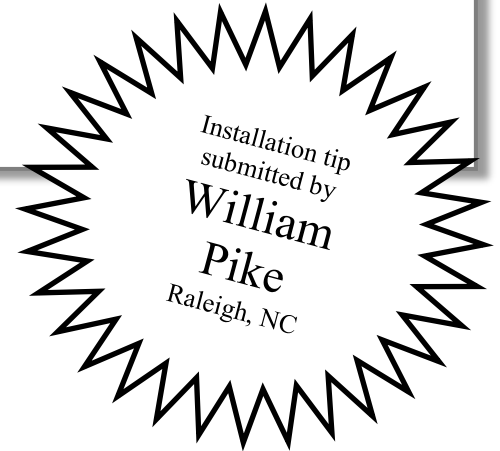


INSTALLATION INSTRUCTIONS



Part Number: 162-8001 / 162-8002
Part Name: **Lower Ball Wheel Guide Roller Assembly-LH/ RH**
Revision Date: 8/31/17
Approved By: Don Agent



Packaging Contents:

Qty.	Part Number	Description
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For the 162-8001 LOWER BALL WHEEL GUIDE ROLLER USE:

(1) Ea. 162-6002 Lower Ball Wheel-LH

For the 162-8002 LOWER BALL WHEEL GUIDE ROLLER USE:

(1) Ea. 162-6001 Lower Ball Wheel-RH

4 Ea.	162-2044	Washer- See figure 3
2 Ea.	162-2404	Snap Ring
2 Ea.	162-9601	Ball Bearing
1 Ea.		Installation Instructions



Tools Required:

11/16" Wrench	5/16" All Thread Rod Coupling
9/16" Wrench	1/2" Ratchet Wrench

Completely read and understand these instructions prior to the installation of this assembly. If you should have any questions please contact Kegel's Pinsetter Part technical support team at one of the contact numbers listed below.

WARNING! Always remove power to pinsetter by turning off main circuit breaker and disconnecting high voltage input power cord to electrical box when performing service work.

Steps

1. Remove upper rear elevator guard.
2. Remove elevator cross belt.
3. Release ball wheel belt tension by removing ball wheel belt out from under ball wheel belt idler pulley.
4. Loosen the two U-bolts on both upper ball wheel guide rollers and rotate both assemblies up away from the ball wheel.
5. Raise and support the ball wheel above the lower guide rollers. **** Both lower ball wheel guide rollers should spin freely at this time.***
6. Insert the 5/16" All Thread coupling into the guide roller socket head bolt. *See figure 1.*

7. Using the ½" Ratchet Wrench remove guide roller. *See figure 2 *Lower ball wheel guide rollers have reverse threads. Some machines have a washer located between guide roller and elevator frame. See figure 3.*
8. Remove old guide roller assembly from guide roller shaft and replace with new assembly.
9. Install new guide roller on pinsetter. *If guide roller assembly does not spin freely, check to make sure washer (included in this package) is properly installed. See figure 3.*
10. Check to make sure ball wheel is properly seated on lower guide rollers.
11. Rotate both upper guide roller assemblies down until they just make contact with the ball wheel and tighten the U-bolts.
12. Rotate the ball wheel by hand to check for binding in the any of the guide rollers at the high spots of the ball wheel.
13. If necessary, loosen the U-bolts and readjust the guide roller assemblies to the high spots of the ball wheel.
14. Reinstall ball wheel belt, elevator cross belt and upper rear elevator guard.

RH roller shown in picture. The same can be used for LH roller



Figure 1

Figure 2

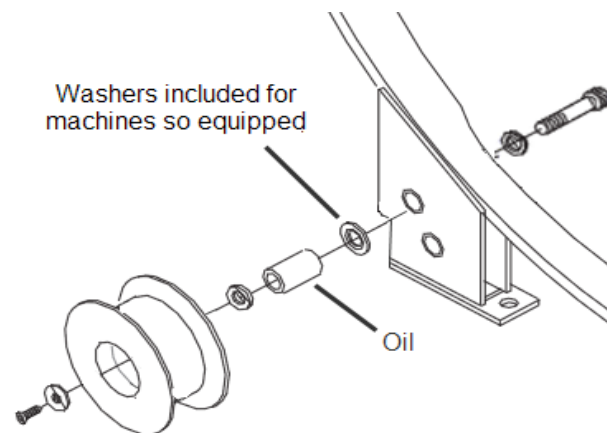


Figure 3

Kegel Tech Tips

- ✔ Inspect the condition of ball wheel belt. Replace if needed.
- ✔ Inspect the condition of the RH lower guide roller. Repair/replace if needed.
- ✔ Check to make sure the ball wheel belt is tracking in the center of the guide roller. Adjust by moving the idler pulley arm and ball wheel drive pulley in the appropriate direction.
- ✔ Check the ball lift rod adjustment. Adjust if needed.