

## **REPLACING REGISTER BEVEL GEAR AND DRIVE SHAFT**

(PLEASE NOTE: This is a complicated procedure and is recommended to be done at the factory)

### **BE SURE NOT TO LOSE SCREWS AND OTHER SMALL PARTS**

1. Remove Folding Tray Assembly and set aside. Remove Meter and set aside.
2. The Coin Stop Knob in front where you change from 50-25-C-40-20 is held on by a 1/16" pin. Remove the pin by tapping it out with a 1/16" punch. Sometimes it can be very difficult to tap out. Be careful not to bend the shaft while doing so. Set Knob and pin aside
3. Remove Drive Star Pinion Gear and set aside. Remove Drive Star Nut and Drive Star and set aside.
4. Turn machine upside down. Mark the exact position of the Register with a Sharpie by drawing a line down the edge of the Register frame, so you can put it back in the exact same spot later. There are 3 screws holding Register onto machine. Remove the screws and Register should lift out of machine.
5. The Bevel Gear Shaft runs through a metal block on the register. The Shaft also runs through the Bevel Gear. The Shaft is held on by either a nut or a clip. Remove the Shaft and the Gear will slide out. Set the Shaft aside and discard the old Bevel Gear.
6. There is a spring attached to the Coin Stop Assembly which is hooked onto a flange called the Large Lever. Unhook the Spring from the Lever. The Z-Bar rests in the groove on the Large Lever. Pay attention to how it sits in the groove.
7. The metal block is called a Bridge Bearing. It is held on by 2 screws. Remove the screws and the Bridge Bearing and set them aside. The Drive Shaft will now slide out of the Register. Discard the old Drive Shaft.
8. Slide the new Drive Shaft into the hole the old one came out of. Reinstall the Bridge Bearing and re-hook the Spring to the Lever. Make sure the Z-Bar sits in the Groove on the Lever as it was before.
9. Push down on the shaft where the Coin Stop Knob usually would be and set the register to the Continuous setting.
10. Inside the Register are 2 large flat gears. The gears have rectangular holes in them which you can see through the window on the right side of the Register. Rotate the Gears until you see both of the rectangular holes. (NOT the smaller square holes)
11. Push down on the shaft where the Coin Stop Knob usually would be and set the register to the 40-count setting. Rotate the corresponding Gear until the Z-Bar drops into the rectangular hole, and then rotate the gear until the Coin Stop is all the way up. The Coin Stop should be flush with the top but NOT tight. Wedge a shim into the left side of the Register to hold the Gear in place.
12. Push down on the shaft where the Coin Stop Knob usually would be and set the register to the 50-count setting. Rotate the corresponding Gear until the Z-Bar drops into the rectangular hole, and then rotate the gear until the Coin Stop is all the way up. The Coin Stop should be flush with the top but NOT tight. Wedge a shim into the right side of the Register to hold the Gear in place.

13. With the Gears held in place, install the new Bevel Gear, removing & rotating until teeth mesh & gear drops into place so that the hole in Bevel Gear lines up with holes in Bridge Bearing & frame. Do not apply force on gears to line up holes. **IMPORTANT: If the new Bevel Gear is very tight sliding onto the opening, it may be necessary to sand down the top of the Gear.**

14. Reinstall the Bevel Gear Shaft with its nut or clip.

15. Remove the shims holding the Gears in place. Test the operation by pushing down the Coin Stop Knob shaft to release the Z-Bar, and then advancing the Bevel Gear by hand for a full rotation until the Coin Stop comes up. Do this for both 40-count and 50-count.

16. Reinstall Register with the three screws, making sure to line up Register with the Sharpie mark you made earlier.

17. Turn machine right side up and reattach the Drive Star with its nut. Test the machine for proper operation on 40, 50 and C settings, and all denominations of coins.

18. If there are any issues, it may be necessary to remove the Register again and experiment with the Gear settings.

19. If all goes well, re-install the Coin Stop Knob and pin, the Drive Star Pinion Gear, the Meter and the Folding Tray.

Please call if you need assistance or have any questions.

Thank you,  
KLOPP International

