

## **Hizar Pin Gate 12-862251-000**

### **Packaging**

- 1 Ea. 12-150052-000 Hizar Short Link
- 1 Ea. 11-150053-000 Hizar Clevis
  
- 2 Ea. 12-252016-000 Package - Pin Gate Latch Bolt Assy
  - 2 Ea. 11-002096-000 #10-32 x 7/8" Hex Hd Bolt
  - 2 Ea. 11-190006-001 #10 Washer
  - 2 Ea. 11-170006-001 #10-32 Self Locking Nut
  
- 2 Ea. 11-005122-000 #10-32 x 3/4" Hex Socket Hd Cap Screw
- 2 Ea. 11-190006-001 #10 Washer
- 2 Ea. 11-170006-001 #10-32 Self Locking Nut
- 1 Ea. 12-150054-000 Tension Spring

### **Installation**



**WARNING!** Remove power to the pinsetter. Follow basic safety procedures while performing this installation.

1. Remove and discard; shoulder link and fastening hardware.
2. Remove the existing roll pin or shoulder bolt and spring from the pin gate latch.
3. Check the oilite bearings (11-421053-000) on the pin gate latch for excessive wear. Replace as needed.
4. Position the Hizar pin gate link so the short link is up and the slot of the clevis is facing the turret. Align the hole in the top of the short link between the clevis of the pin gate latch. Insert a shoulder bolt through the pin gate latch, continuing through the short link and exiting the opposite side of the pin gate latch. Place a washer over the bolt, thread a lock nut in place, and tighten.



**NOTE:** Do not overtighten the bolt that secures short link. The short link must work freely.

5. Manually index the turret until the stop lever roller is on a high dwell of the turret indexing cam, preferably between the 2 and 4 or 3 and 6 positions of the turret.
6. Position the clevis of the Hizar pin gate link over the slotted holes in the pin gate latch link, aligning the holes of the Hizar pin gate link with the slotted holes.

7. Insert the two bolts into the Hizar pin gate link, going through the slotted holes of the pin gate latch link. Place the washers on the bolts and thread the lock nuts in place.
8. Before the bolts are tightened, see that the pin gate latch link and the Hizar pin gate link form a straight line and that the pin gate latch is blocking the pin gate. Tighten the bolts making sure the clamping link of the Hizar pin gate link is clamped tight to the pin gate latch link.

**i** **NOTE:** In this upright position there must be a small gap between the latch and the pin gate. Refer to Figure 1.

9. Install the new spring (12-150054-000).
10. Manually index the turret until the indexing roller is in a low dwell of the indexing cam. Verify that the pin gate latch link has raised the pin gate latch and that the pin gate is now unblocked and free to allow a bowling pin into the turret.

## Trouble Shooting

If it is found that the pin gate fails to block pins, allowing multiple pins to pile onto the turret or erroneously blocks pins, keeping them from entering the turret, check these items:

- Stop Lever Roller for wear or damage
- Long Turret Belt for excessive tension
- Short Turret Belt for wear or glazed and dirty condition
- Bottom Turret Pulleys for wear or dirty condition
- Indexing Cam for dirty condition

