

SERVICE BULLETIN

Subject: GS Pinsetter Crank Arm Alignment

Date: 11/29/12

Bulletin No. SB12-8

In April of 2008 there was a change in the thickness of the crank arm from 10mm to 12 mm. This occurred on machines with series numbers 644 and higher. Refer to Figure 1.

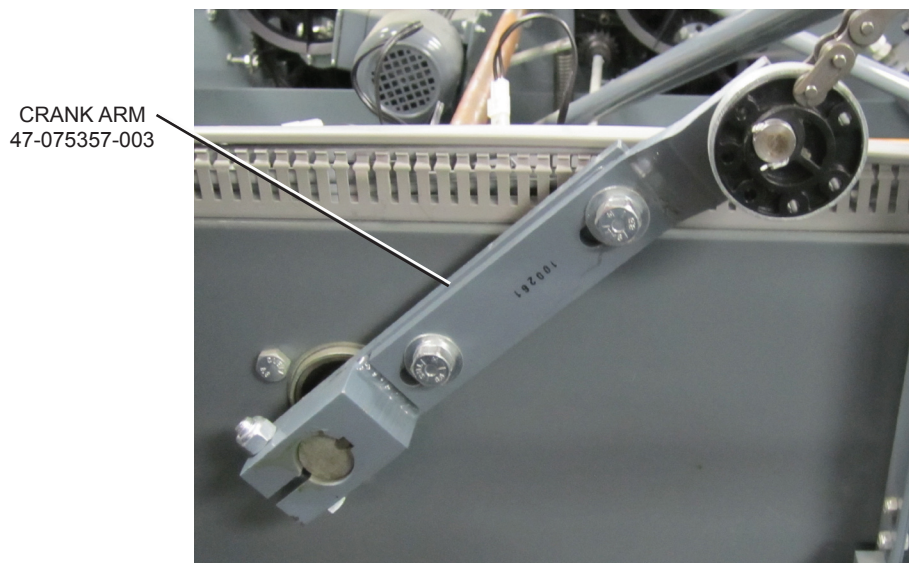


Figure 1

One of the things we have noticed is that if you have a machine that has the crank arm adjusted too far away from the distributor frame – in particular, the edge of the Sweep Shaft Support Brace (Refer to Figure 2), it can create a misalignment of the pivot bearing and the top spur gear when the crank arm is at the top of the stroke and closest to the spur gear – the pivot bearing is offset to the right of the spur gear (Refer to Figure 3).

EDGE OF THE SWEEP SHAFT SUPPORT BRACE

CRANK ARM ADJUSTED TOO FAR AWAY FROM EDGE OF THE SWEEP SHAFT SUPPORT BRACE

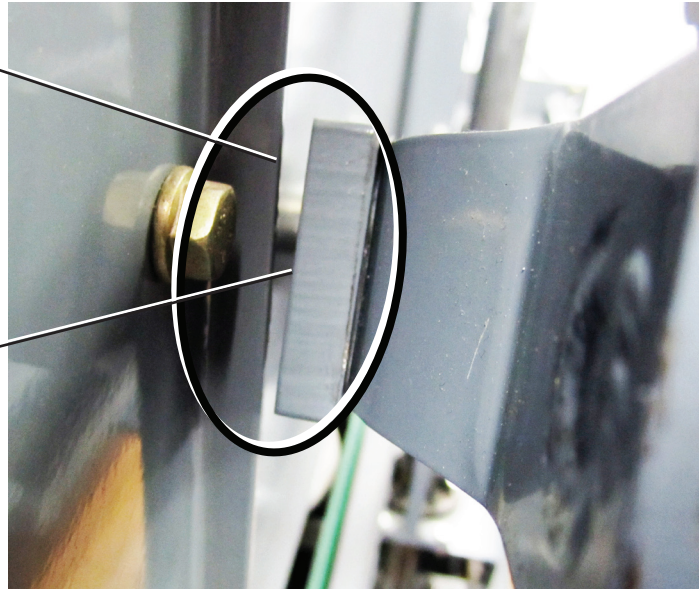


Figure 2

CRANK ARM

TOP SPUR GEAR

PIVOT BEARING

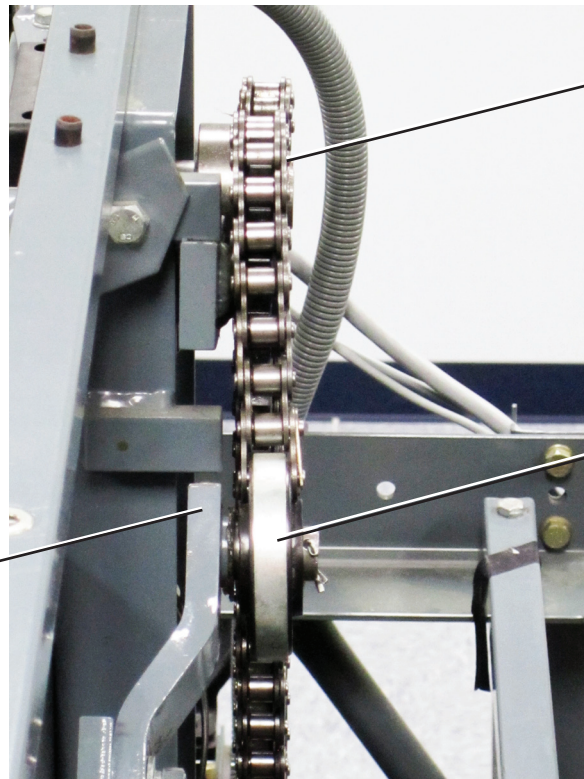


Figure 3

To improve this alignment, first place two boxes of pins on the pin deck to support the setting table. Refer to Figure 4.



Figure 4

Then cycle the machine until the crank arm is in front of the sweep arm support brace. Refer to Figure 5.

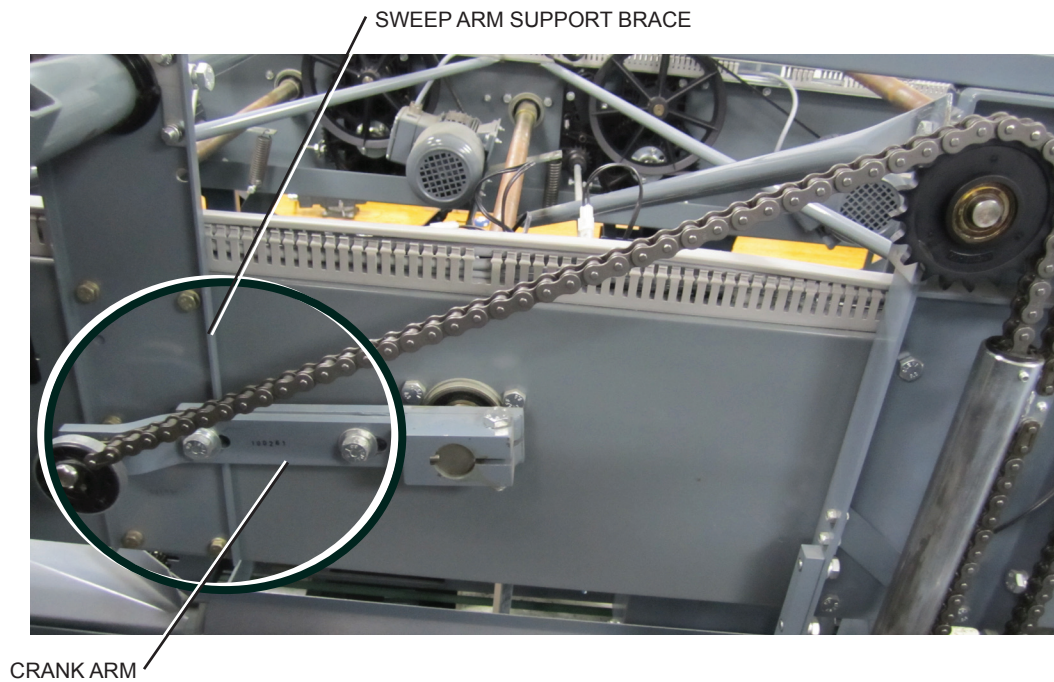


Figure 5

Loosen the locking bolt at the base of the crank arm using two 19mm wrenches/spanners. Refer to Figure 6.

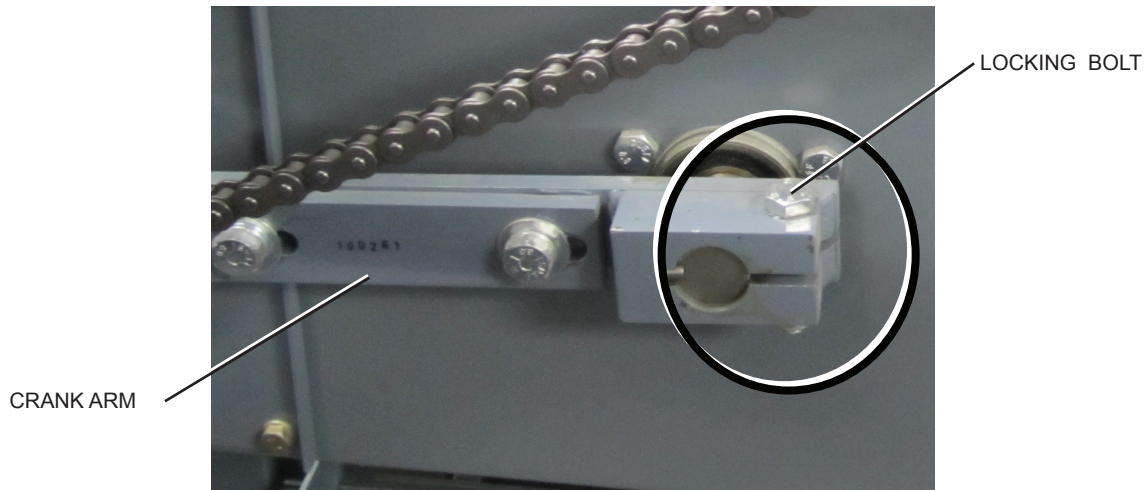


Figure 6

Using a hard mallet, drive the table lift arm further onto the shaft until a 2mm gap is obtained between the crank arm and the sweep shaft support brace. Tighten the locking bolt. Refer to Figure 7.

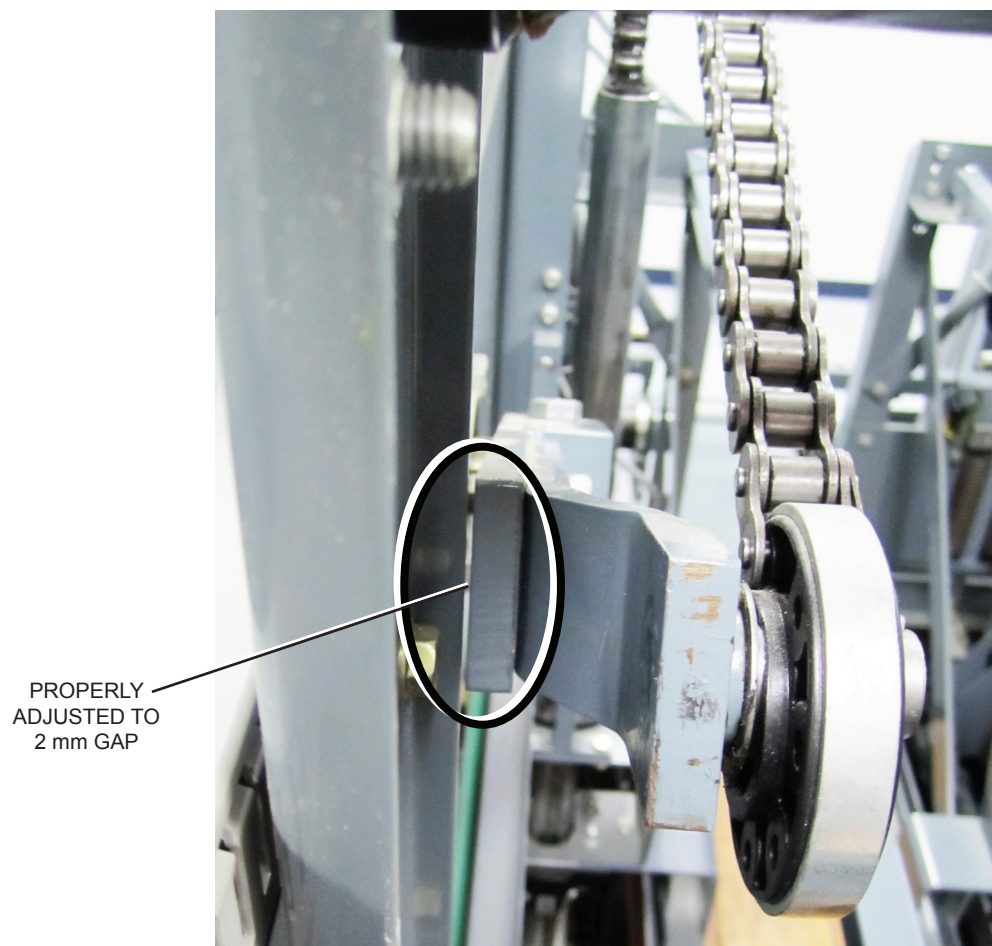


Figure 7

Cycle the machine to verify that the alignment to the sprocket at the top of the table lift arm cycle is improved.

This is also a good time to ensure that the pivot bearing is not hitting the sweep cross shaft during the cycle. Refer to Figure 8. If the pivot bearing is contacting the sweep shaft, refer to the “Table Height Adjustment” in the GS Series Pinsetter Operations and Service Manual (p/n 47-902735-000 or 47-902748-000).

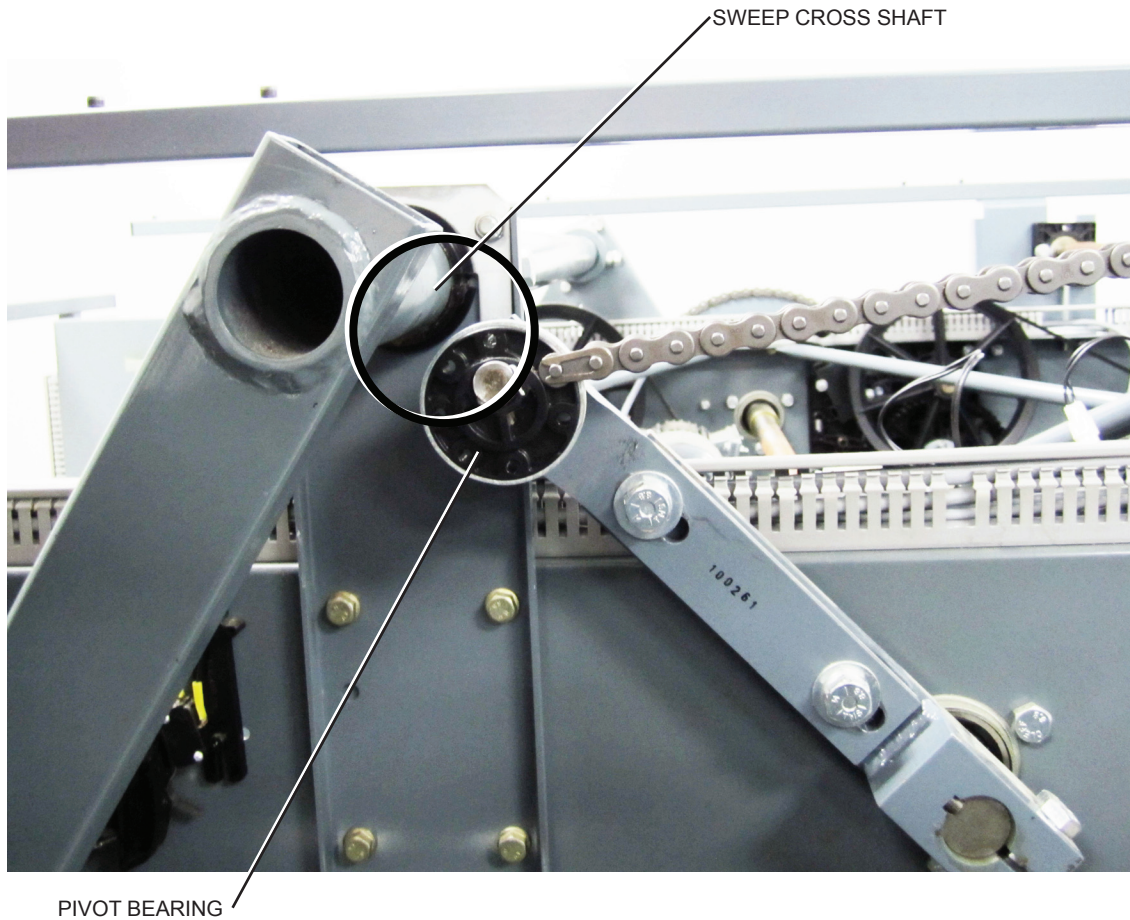


Figure 8

If you have questions regarding the information contained in this Service Bulletin, please contact Brunswick Technical Support at 1-800-937-2695 or 231-725-4966, FAX 231-725-4667, or Email techsupport@brunbowl.com Visit <http://www.brunswickbowling.com/service-support/tech-support/> for electronic files of this and other Service Bulletins.

David J. DiRito
International Service Manager

David E. Rice
Director of World Wide Service