

Subject: GS Pinsetter Corner Belting Angle Reduction Date: 5/22/01

Distribution: All GS Pinsetter Customers Letter No. CEB01-4

With the changing world of lane conditioners and cleaners, we have noticed an increase in pin jams in the front corners of the GS Series Pinsetter distributor. Refer to *Figure 1*. We have devised and tested a procedure that reduces the occurrence of the corner jams. The pages following detail this simple procedure that takes approximately 20 minutes per pinsetter.

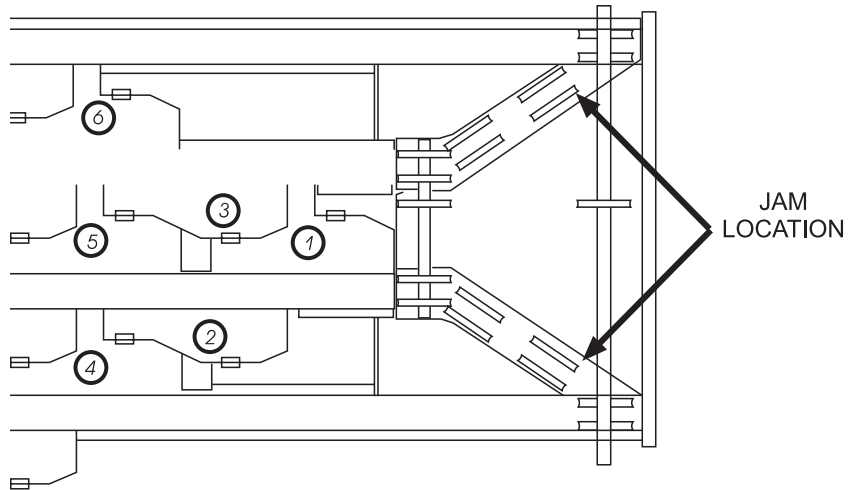


Figure 1

The following is a recommended list of tools:

- 3/8" off-angle 45 Degree Drill Motor
- 9mm drill bit
- Metric ruler
- 3/8" Drive Socket with 10 mm & 13mm Sockets
- 10 and 13mm Wrenches (Spanners)

In addition, we recommend that you be ever diligent in cleaning your green belts with lane cleaner. We have found that Invincible Lane Cleaner (P/N 62-860055) works well in removing the new conditioners that may contain silicone which has been causing many of the problems you are facing. Also as a part of regular maintenance, you must keep the belts adjusted and tensioned properly. Finally, don't forget to clean the bowling pins, pindecks and transport bands that track the oil to the belts in the first place.


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Test/Verification Engineer


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Distributor Corner Belt Angle Reduction

1. Remove corner turn plate. Refer to *Figures 2 and 3.*



CORNER TURN PLATE

Figure 2



CORNER TURN PLATE
REMOVED

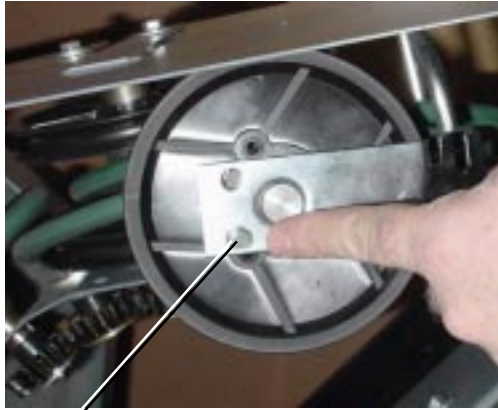
Figure 3

2. Remove both green belts from the front dual-pulley assembly. Refer to *Figure 4.*



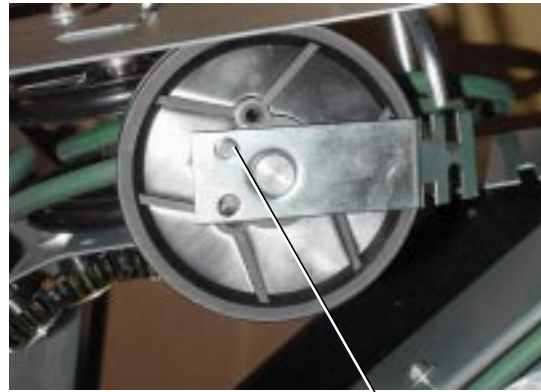
Figure 4

3. Remove the front dual-pulley assembly. Change the bolt to the upper hole *Figures 5 and 6*.



OLD BOLT
BOTTOM LOCATION

Figure 5



NEW BOLT
TOP LOCATION

Figure 6

4. Loosely reinstall pulley assembly starting with (outer) side.
5. Seat guide bracket in slot. Refer to *Figure 7*.

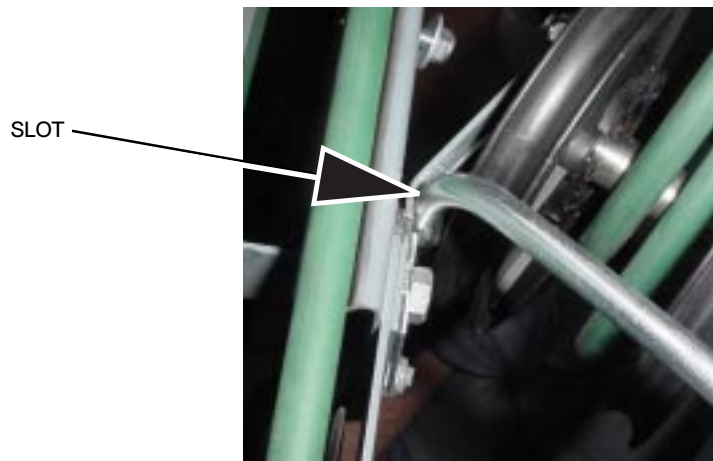


Figure 7

- Secure (inner) side of pulley assembly making sure it is flush with lower distributor frame. Refer to *Figure 8*.

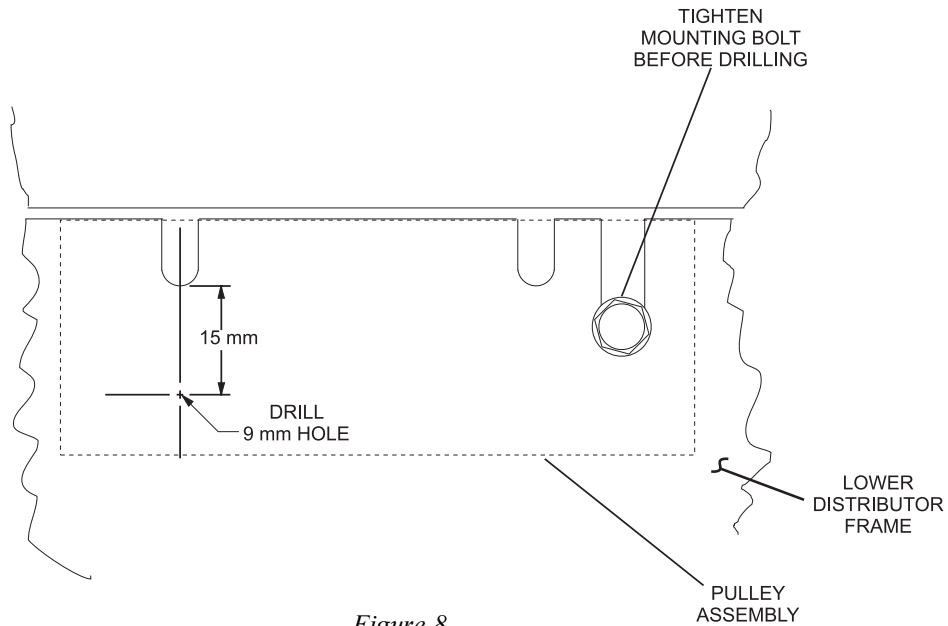


Figure 8

- Drill new 9 mm mounting hole 15 mm below the existing hole, and secure with existing bolt and nut. Refer to *Figures 8,9 and 10*.



Figure 9

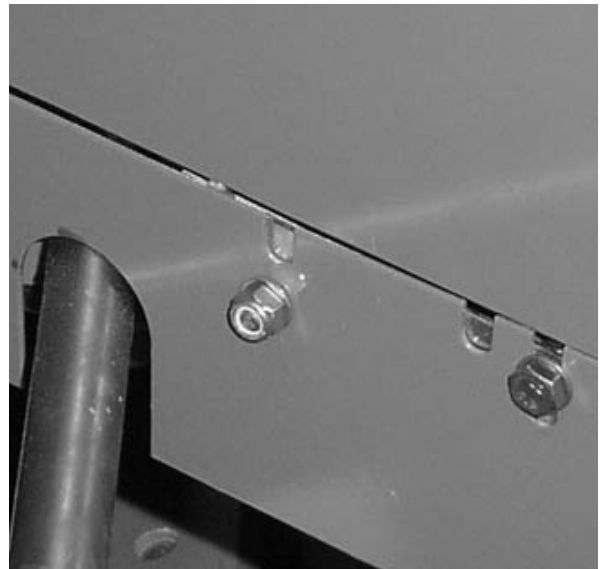


Figure 10

- Tighten all bolts.
- Reinstall green belts.
- Reinstall corner turn plate. Slightly bend the edge of the corner turn plate, closest to the belt, downward so the edge does not cut pins and is clear of any moving parts.
- Repeat procedure for other side.