



U.S. Patent No. 6,047,490 • Patents Pending

*Fire Cartridges with your Cap & Ball revolver*

## **Troubleshooting Open-Top Colts**

When installing the **Kirst Cartridge Konverter®** you may, occasionally, encounter one of the following difficulties:

**Difficulty:** If the Konverter Ring doesn't easily seat solidly against the revolver breech, or if the cylinder binds or won't turn within the Konverter Ring the foot (flat) on the K-Ring is too high.

**Solution:** Install the Konverter cylinder without the Konverter ring; place hammer at half cock position and turn cylinder with your fingers to determine that the cylinder turns freely.

**Note:** there will be some resistance from the hand dragging over the ratchet teeth on the cylinder – this is normal and the cylinder will turn more smoothly as the sharp edges of the hand and ratchet teeth wear in.

If the cylinder turns freely; with a file, or stone, very gradually remove material from the bottom of the foot (flat) until the installed Konverter assembly turns freely with the Konverter ring fully seated against the breech.

**Caution!** Try the fit and function often and stop removing material as soon as the cylinder turns freely.

**Difficulty:** If the revolver can't be cocked, with the Konverter assembly in place; the hammer starts to pull back but binds and the cylinder won't turn.

**The first condition to look for:**

Look closely at the hand; check it to see if the front inside edge nearest to the base pin has been rounded off. Both front, vertical edges of the hand should be square and sharp, not rounded. If the edge is rounded it allows the tip of the pawl (hand) to protrude from the breech too soon; ahead of the ratchet tooth. When the pawl enters the ratchet tooth area too soon, the tip of the hand enters into the void created by the cartridge rim clearance on the ratchet shaft. The tip of the hand jams into the ratchet shaft and freezes all action.

**Solution:** Replace the hand with a new one that is full thickness and has sharp edges.

**The second condition to look for:**

The cylinder stop bolt does not start to retract immediately upon starting to draw the hammer to cocked position, it does not retract, soon enough to clear the Konverter cylinder. The hammer will freeze before reaching full cock position and the cylinder will not turn.

**Solution:** This condition can be resolved by re-timing the stop bolt to pick up sooner; or, if the stop bolt protrudes more than 1/16 inches above the bottom of the frame under the cylinder it is possible to reduce the height enough to allow the bolt to clear the cylinder. Very carefully remove material from the top of the bolt. Use a small diamond file or stone and be careful to maintain the angle and radius of the top of the stop bolt.

**Difficulty:** If the cylinder stops short of full battery.

**Condition:** The pawl (hand) is too short.. This is often the result of wear, but occasionally it occurs in new revolvers.

**Solution:** Replace the pawl (hand) with a new, longer one.