

the different operators utilize. Reversing the riveting process will eliminate a lot of the operator variability and I anticipate it improving the end product.

Is the hard to cam related to the riveting process or is it a separate issue?

Kevin

From: Boyles, Derek
Sent: Wednesday, August 03, 2005 2:48 PM
To: Reesor, Phillip K.
Cc: Vicars, Gerald; Lance, Kevin D.; Franz, Scott; James, Will
Subject: 710 Test Guns - Rivet Oriented Opposite

Phil,

I have a little more information to share with you regarding the "hard to cam" phenomenon you're experiencing with the 6 guns. I spoke to the shooter of the guns you're sampling and he mentioned the ability to cam over with a live round was equivalent to any other gun of the same caliber. Keep in mind they are using a glove and cam each gun over quickly to work through a rack of production guns expediently. I have a tendency to cam over more slowly and can detect the difficulty at the start of the bolt rotation as you mentioned. However, as I speed up that rotation, the cam over becomes easier.

We also took ONE 7mm and fed live rounds using the 2 different bolt head rivet installations. The shooter nor myself could tell a difference in the work needed to cam the bolt over. When the rivet is installed on the outside, you will see very slight wear on the rivet head as you cam over several times. This is due to the rivet head being proud to the bolt head (not ground) and will not wear any further than flush to the bolt head because of the difference in hardness. After we cycled the gun 10 or so times, the wear on the rivet head was evident, but there was no change in the work needed to cam over.

Our shooters may be less sensitive to the "hard to cam" because of repetitiveness and their more rigorous method of cam over. We can explore this further with the samples that you are sending to us. Also, if you could send back a few of the spent casings with the scratches left from the burr, I would appreciate it.

Regards,

Derek Boyles
Senior Quality Engineer
Remington Arms Company
22 Rifle Trail, P.O. Box 99
Hickory, KY 42051
Phone: 270-856-4227
Fax: 270-856-3233

Subject to Protective Order - Williams v. Remington