710 Dry Cycle Report Brian Rages February 12, 2003

OBJECTIVE

The objective of this report is to detail the results of a dry cycle test performed on a Model 710 with a new safety pivot pin. This pin is shorter than the current design. The retaining clip groove dimensions are the same except for the position of the groove, which effectively is moved closer to the trigger assembly side plate due to the shorter pin. The same retaining clip is used.

CONCLUSIONS

The 710 equipped with the new safety pivot pin was dry cycled 2,000 times. No malfunctions or failures of any kind occurred. The safety pivot pin was inspected after the dry cycle test and no significant wear was seen.

PROCEDURE

A Remington Model 710 firearm, serial number 71098443, was used for testing. The barreled action was removed from the stock of the firearm. The scope and scope mounting rail were removed from the barreled action. The end of the safety arm was ground flat and a through-hole added to enable mounting to the safety activator on the dry cycle machine. Photographs were taken of the safety pivot pin prior to testing. No lubrication was applied to the fire control and no cleaning was performed prior to testing. Molybdenum disalphide grease was applied to the locking lugs of the bolt head and to the firing pin cam surface of the bolt body to ensure smooth operation and minimize bolt

The barreled action was placed in the dry cycle machine. The dry cycle machine performed the following actions in this sequence:

- 1 Raise bolt
- 2. Lower bolt
- 3. Move safety arm to "SAFE" position
- 4. Move safety arm to "FIRE" position
- Pull trigger

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