

Remington Arms Confidential

***Remington.***

**REMINGTON ARMS COMPANY, INC.**

**RESEARCH & DEVELOPMENT TECHNOLOGY CENTER**

**315 W. RING ROAD**

**ELIZABETHTOWN, KENTUCKY 42701-9318**

**(270) 769-7600 FAX (270) 737-9576**

Remington Arms Company, Inc.

John C. Trull John R. Fink

Post Office Box 700

Madison, NC 27025

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**VIA EMAIL: JOHN.TRULL@REMINGTON.COM; JOHN.FINK@REMINGTON.COM**

The Test and Measurement organization within the Elizabethtown Research and Development facility formally supports exit from Trial and Pilot testing of the M/710 Short Action Bolt Action Rifle (in .243 Win. only caliber) subject to the following issues and conditions:

1. A Design Transmittal must occur to formally establish component dimensional parameters reflective of T&P product. All shipped product must conform to these parameters or a written deviation from design must be obtained from the Design team.
2. Mayfield should review the processes related to manufacturing, assembly, inspection, and testing of the extractor to ensure proper function and operation. Fail to eject (FTEj) malfunctions were the single largest malfunction encountered over the duration of testing. 27 of 31 total malfunctions (87%) encountered in over 7,700 rounds of testing were FTEj's. An overall malfunction rate of .4% is admittedly low. Fail to eject malfunctions were isolated to specific guns and the cause was determined to be extractor related. Test believes that the FTEj's were not related specifically to the short action design.

The following observations were made during trial & pilot and are communicated here for information purposes. Test reasonably believes some of these may result in customer dissatisfaction. These issues have no absolute test objective criteria associated with them at this time so Test has no basis to withhold ship approval. Consequently, Test supports ship contingent on Marketing approval of these conditions:

- All previously identified M/710 characteristics that have been accepted by Marketing continue to be present in this short action variant. Issues such as the ability to load the magazine box incorrectly, which results in an improper cartridge stack are also present in the short action. One exception is the lack of box deformation from the tips of rounds impacting the front surface of the box during recoil. Magazine boxes in the short action after 1,000 rounds exhibited no deformation.

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- Magazine box fit in the stock is on the loose side. Although no malfunctions associated with this loose fit occurred over the duration of testing the box actually rattles in the stock. This is not specific to the short action and is a result of recent tooling changes made to the stock mold to address other fit issues. Mayfield and E-town personnel are working with the molder to address this loose box fit issue.
- The bottom surface of the firing pin head can hit the top surface of the stock when the bolt is fully retracted. This has resulted in minor stock damage on some guns. The damage is strictly cosmetic.
- When the safety is pushed fully forward into the "Fire" position it leaves a small mark on the stock forward of the safety arm. Movement of the safety in no way is impaired. This is solely a cosmetic issue.

Test recommends that these issues be resolved through design/process changes if Marketing finds any of these conditions unacceptable.

Elizabethtown stands ready to assist should you determine that additional audits of the product are required.

With Kind Regard,

Scott R. Franz  
Manager of Research and Technology  
Remington Arms Company, Inc.

cc: T.L. Millner R.H. Bristol II P. L. Cahan D.H. Campbell  
K.D. Lance D.D. Diaz