Remington Arms Confidential

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October 20, 2004

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The Test and Measurement organization within the Elizabethtown Research and Development facility formally supports exit from Design Acceptance Testing of the Extruded Steel Receiver for the M/710 for all current production calibers and recommends proceeding toward a Trial & Pilot build.

It should be noted that early testing on guns as received from Mayfield did not function well since feeding rounds would catch on the front lower surface of the receiver in the feed ramp area. An additional clearance cut was added to the receiver to eliminate this interference and this solved the feeding issue. Models and Drawings have been updated to reflect this design change. No other issues specifically related to the new extruded receiver design were found.

Testing identified four process deficiencies related to standard M/710 gun specifications or performance that are worth noting:

1. One gun out of fifteen had an engagement measurement 0.004" under the minimum process specification (.016 inches).
2. One gun out of fifteen was pulled from test for having a rough chamber which effected spent case extraction.
3. Four Magazine Latches were broken in the endurance phase of testing. Failures occurred at 180 rds. (270), 820 rds. (7mm Rem. Mag.), 840 rds. (.30-06) and 1,030 rds. (.270). The failed parts were inspected by Todd Cook and it was his opinion that in all cases the cause of failure was attributed to poor part quality from the molding process.
4. A front take down screw came loose and completely fell out after 260 rounds on one of the .300 Win. Mag. samples. Since E-town lab personnel removed stocks to take fire control measurements they may be ultimately responsible for this failure.

Please contact me if you have questions related to this document or the testing that was done.

Scott R. Franz
Manager of Research and Technology