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The test lab uses the average of three trials to determine the value of each rifle's indent. For Phase I rifles (A1-A15), the mean of all 15 rifles was 0.01887". The minimum value for this sample was 0.01770" and the maximum value was 0.01970".

For Phase II, the mean of all thirty rifles was 0.01722". However, in this sample there were 10 rifles that measured less than 0.017". The minimum value observed was 0.015". There are currently no known plans to change the design to address this discrepancy relative to the recommended S.A.A.M.I. standard. It should be noted that no misfires occurred during DAT testing that could be attributed to the rifle. (See Section TLW0010E: B.1 & B.2.)

3.1.2.2 TLW0010E – Sear/Trigger Engagement and Sear Lift

The amount of engagement (or overlap) of the Sear Safety Cam and the Trigger connector is required to be 0.020" to 0.025" with the bolt in the fully closed and locked position. In addition, the required amount of lift for the Sear Safety Cam when the safety is placed in the "Fire" must be a minimum of 0.006" and a maximum of 0.018". For these values, the test lab uses the average of three trials.

Phase I measurements revealed that the mean for Sear/Trigger Engagement was 0.02265" with a minimum value of 0.01773" and a maximum value of 0.02870". There were two values below the minimum specification of 0.020" and two values above the maximum specification value of 0.025". For the Sear Lift specification the mean of the fifteen samples was 0.00959" with a minimum value of 0.00727" and a maximum value of 0.01137".

Phase II measurement for the mean of the thirty samples for Sear/Trigger Engagement was 0.02419" with a minimum value of 0.01990" and a maximum value of 0.02750". There was one value below the minimum specification of 0.020" and four values above the specification of 0.025". For the Sear Lift specification the mean of the thirty samples was 0.01596" with a minimum value of 0.01140" and a maximum value of 0.01870". There was one value in the sample that was greater than the upper specification of 0.018". There were no values below the lower specification of 0.006". (See Section TLW0010E: B.1 & B.2)

3.1.2.3 TLW0010F – Trigger Pull Forces

Trigger pull is the force required to manually operate the trigger and release the firing pin and is measured in accordance to S.A.A.M.I. (Ref: S.A.A.M.I. Technical Committee Manual, Vol. VII Centerfire Rifle, Section 7-150.01-note that S.A.A.M.I. sets only a minimum trigger pull of 3.0 lb.) and Remington standard test procedures. The placement of the spring scale force gauge was in the center of the finger radius of the trigger and the direction of pull was horizontal and parallel to the long axis of the barrel bore. Three trials were made on each sample rifle and the average used as the final value of the trigger pull force. The Remington specifications established for this product are a minimum trigger pull of 4.0 lb. and a maximum of 5.0 lb. Trigger pull forces were re-adjusted to this specification prior to the continuation of testing if found to be above or below the specified limits. Trigger pulls were taken both with the actions in the stocks and independent of the stocks. (See Section TLW0010F: B.2)

Jan.2001 Design Acceptance Test Remington M/710 Centerfire Rifle;
R & D Technical Center Project No. 241039; TLW 0100
file: F:\Test Reports \Firearms Tests \M710_DAT_REPORT_JAN01_Rev1.doc

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