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3.0 DATA SUMMARY**3.1 INITIAL INSPECTIONS, TESTS & MEASUREMENTS****3.1.1 Headspace & Proof Testing****3.1.1.1 TLW0010A – Measure Headspace**

Headspace for this firearm is the distance between the face of the bolt and the point of contact on the shoulder of the chamber. Excessive headspace can result in an unsupported shell case allowing the case to stretch and potentially rupture and thereby dump high pressure gas into the breech area. This pressure can potentially cause damage to the firearm and/or shooter. Headspace dimensions are clearly specified by both Remington and S.A.A.M.I. Remington specifications for centerfire rifles require that headspace not exceed "min." chamber +.009".

For rifles A-1 to A-15 (Phase I) and rifles B-1 to B-30 (Phase II) all of the rifles were in the range of min. to min. +.004 prior to proof testing. (See Section TLW0010A; B.1 & B.2.)

3.1.1.2 TLW0010B – Proof Test

The proof test requires that a firearm be subjected to at least one round that generates a substantially higher chamber pressure than that which it is expected to be subjected to during normal use with standard ammunition. Prior to and immediately after a proof round is fired the rifle is examined for any indications of damage due to excessive pressure.

Inspection of all rifles, both Phase I and Phase II, after proof did not exhibit indications of damage due to high pressure for bolts, locking surfaces, chambers or other components. (See Section TLW0010B; B.1 & B.2.)

3.1.1.3 TLW0010C – Re-Measure Headspace after Proof Test

After proof, headspace is again measured on each firearm. All rifles must remain under the min.+.009" limit. In addition, there is a requirement of the test plan that no headspace measurement can be greater than .002" from the pre-proof measurement. All rifles tested met this criterion. (See Section TLW0010C; B.1 & B.2)

3.1.2 Forces**3.1.2.1 TLW0010D – Firing Pin Indent**

Firing Pin Indent is measured to insure that there is sufficient energy available when the firing pin impacts the cartridge primer to initiate ignition. The depth of the firing pin indent should be at least 0.017" "...in order to insure against misfires chargeable to the firearm..." (Ref. S.A.A.M.I. Technical Committee Manual, Vol. VII Centerfire Rifle, Section 7-50 (3))

Jan.2001 Design Acceptance Test Remington M/710 Centerfire Rifle;
R & D Technical Center Project No. 241039; TLW 0100
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