

ILION RESEARCH DIVISION
MONTHLY PROGRESS REPORT
June 1978

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MODEL 541 - 22 Hornet

A single shot model was assembled and proofed. Because of assembly problems headspace was .073. SAAMI recommends .065 to .072. The headspace did not change during proofing. After 18 rounds a head separation was experienced. Headspace was still .073.

A new bolt was fitted, giving a headspace of .066. After 2 proofs it was .067. Test firing was commenced with hard bolt life being experienced. After the 80th round the bolt had to be pried open. In checking the rifle a fire control stud was broken. This is being repaired so that further testing can be done. Because it is felt that receiver stretch is causing the tight bolt lift problem, a new receiver is being made with approx. 20% more material in the ejection port and magazine port area. This should be ready for assembly within two weeks.

MODEL 700 FIRE CONTROL

A fire control with a new sear safety cam assembly and trigger to eliminate connector, and with fixed engagement and fixed overtravel, was assembled. Slight alterations were required. Parts are being made and will be ready for assembly and test the first week in July.