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Remington Arms Company Inc.
RESEARCH & DEVELOPMENT TECHNICAL CENTER
315 WEST RING ROAD
ELIZABETHTOWN, KY 42701

BROKEN PARTS – ENDURANCE TEST

B-14	Bolt Handle braze failed during inspection
B-12	Firing Pin broke at 1,496 rounds in thread area (replaced with pin from B-14 (1,320 rounds)
B-12	One ear on bolt Plug broken off. Noticed at 3,000 round inspection level.

General comments:

Rifles B-11, B-12 and B-13: Bolt Stop would not work 100% of the time at approximately the 3,000 round level. Shimmed Stock to fix.

Rifle B-13: Number of FTE's reported may be low. Chronic FTE malfunctions noted at 4,400 rounds.

3.2.1.4 TLW0010AD – Clean Rifles and Inspect**3.2.1.5 TLW0010AE – Dry Cycle to 5000 Cycles**

One of the purposes of this test was to evaluate the reliability of the ISS system as installed on the Model 710. Five ISS units were tested using a Remington designed dry cycling machine. Each unit was cycled 5000 times. At the completion of the cycles one unit was selected for testing with an additional 5000 cycles.

Peak torque force was measured for both the lock and unlock functions of each unit and compared at zero cycles and at 5000 cycles (and at 10,000 cycles for unit B-6). The peak torque force required to lock and unlock the units averaged approximately 30% less after the 5000 cycles were completed vs. the level at the start.

At the completion of the test the units were disassembled to facilitate visual examination. It was noted that while wear was evident on the parts "...the parts did not appear worn out."

The following two charts were taken from the report authored by B.Rages – "Model 710 ISS Dry Cycle" dated 10/24/00. This report can be found in its entirety in part B.2 (See Section TLW0010AE; B.2)

Jan 2001 Design Acceptance Test Remington M710 Centerfire Rifle;
R & D Technical Center Project No. 241039; TLW 0100
file: E:\Test Reports\Firearms Tests\M710_DAT_REPORT_JAN01_Rev1.doc

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Subject to Protective Order - Williams v. Remington