REMINGTON ARMS COMPANY, INC.

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RESEARCH TEST and MEASUREMENT REPORT – Report No. _____

BOLT ACTION CARBINE PRELIMINARY DESIGN RIFLES INITIAL FUNCTION TEST

Prepared by: J. Baggetta

Date Prepared: 3-15-82

Proofread and Cleared By:

J.H. Hennings, Foreman-Test Lab / R.E. Nightingale, Foreman-Measurement Lab

Signature _____ Date 3-22-82

C.E. Ritchie, Sr. Supervisor - Testing, Mess. & Mech. Analysis Lab

Signature _____ Date 3-22-82

TEST & MEASUREMENT LAB REPORT

REPORT NUMBER:

REPORT TITLE: Bolt Action Carbine Preliminary Design Rifles
Initial Function Test

MODEL(S): Carbine

GAGE OR CALIBER: 243, 6MM, 308, 7MM08, 222

DATE: 5-13-81

WORK ORDER NO.: C-1856

PART NAME:

DESIGNER/ENGINEER: D. Bullis

TEST TYPE:

1. PHOTO LAB
2. STRENGHT TEST- NO. OF GUNS TESTED_____
3. FUNCTION TEST- NO. OF GUNS TESTED 24
4. ACCURACY TEST- NO. OF GUNS TESTED_____
5. MEASUREMENTS- TYPE:_____
6. ENVIOROMENTAL TEST
7. AMMUNITION TESTING & EVALUATION- TYPE:_____
8. VISUAL EVALUATION- _____ OUT OF _____GUN SAMPLE
9. ENDURANCE- NO. OF GUNS TESTED:_____
   NO. OF ROUNDS PER GUN:_____
   TOTAL ROUNDS FIRED IN TEST:_____
   AMMO TYPE: MAGS._____; TARGET:_____
   RIMFIRE_____ CENTERFIRE: X

REMINGTON ARMS COMPANY, INC.
Firearms Research Division

March 22, 1982

TO: J.H. Hennings

FROM: J. Baggetta

REPORT TITLE: Bolt Action Carbine Preliminary Design Rifles Initial Function Test

ABSTRACT

Received from R & D design twenty-four (24) bolt action carbines. Five (5) each of 243, 6MM, 308, 7MM08 and four (4) 222 for field function evaluation.

SCOPE OF TEST

Field function tests to determine the overall performance of the carbine rifle.

TEST RESULTS

The following tests were conducted at the Ilion Fish & Game Club commencing on June 23, 1981.

The 243 and 6MM calibers experienced no malfunctions during a 800 and 700 round test respectively.

The following malfunction rates were experienced for the remaining calibers:

7MM08	700 rds.	2.1%
.308	2, 500 rds.	0.8%
.222	500 rds.	16.0%

CARBINE FIELD FUNCTION TEST .22 CAL.

Preliminary Measurements

Measurements / Gun No.	1 B636#18	2 B636#23	3 B636#21	4 B636#22	5 B636#17	6
Headspace (IN.)	MIN+0.013	MIN+0.012	MIN+0.011	MIN+0.012	MIN+0.013	
Safe ON (LBS)	6.0	5.25	5.75	6.0	7.0	
Safe OFF (LBS)	6.25	5.5	6.25	6.5	5.0	
Firing Pin Indent (IN.)	.024	.024	.023	.023	.025	
Trigger Pull (LBS)	5.5	4.5	5.0	5.0	6.5	
Bolt Open Force (LBS)						
Cocked	6.50	5.50	7.10	6.0	5.0	
Fired	8.0	10.0	9.0	7.5	8.0	
Gun Length	37 3/8"	37 3/8"	37 3/8"	37 3/8"	37 3/8"	
Gun Weight (LBS)	6.2	6.2	6.3	6.11	6.11	
Center of Gravity (IN.)	2.5R	2.7R	2.7R	2.9R	3.2R	
Safety Check	O.K	O.K	O.K	O.K	O.K	