

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. Hammings, / R.E. Nightingale,
Foreman-Test Lab / Foreman-Measurement Lab

J.H. Hammings 3-22-82
Signature Date

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

C.E. Ritchie 3-22-82
Signature Date

TEST & MEASUREMENT LAB REPORT

REPORT NUMBER:

REPORT TITLE:

MODEL(S):

GAGE OR CALIBER:

DATE:

WORK ORDER NO.:

PART NAME:

DESIGNER/ENGINEER:

Bolt Action Carbine Preliminary Design Rifles
Initial Function Test
Carbine

243, 6MM, 308, 7MM08, 222

5-13-81

C-1856

D. Bullis

TEST TYPE:

1. PHOTO LAB
2. STRENGTH TEST- NO. OF GUNS TESTED _____
3. FUNCTION TEST- NO. OF GUNS TESTED 24
4. ACCURACY TEST- NO. OF GUNS TESTED _____
5. MEASUREMENTS- TYPE: _____
6. ENVIRONMENTAL 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%

12-0000 12-0000 12-0000
12-0000 12-0000 12-0000

CARBINE Field Function Test .222 CAL. Preliminary Measurements

	1	2	3	4	5	6
Guit No.	B6364418	B6364423	B6364421	B6364422	B6364417	
MEASUREMENTS						
Head Space (IN.)	MINT+0.013	MINT+0.012	MINT+0.011	MINT+0.012	MINT+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.)	0.022	0.024	0.023	0.023	0.025	
Trigger Pull (LBS)	5.5	4.5	5.0	5.0	6.5	
Bolt Open Force (LBS)						
Cocked	6.50	5.50	11.0	6.0	5.0	
Fired	8.0	10.0	9.0	7.5	8.0	
Gun Length	37 1/4"	37 3/8"	37 3/8"	37 1/8"	37 1/2"	
Gun Weight (LBS)	6.2	6.2	6.3	6.11	6.11	
Center of Gravity (IN.)	25R	27R	27R	29R	32R	
Safety Check	OK	OK	OK	OK	OK	