

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE



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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

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J.H. Hennings, / R.E. Nightingale,
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James Hennings 3-22-82
Signature Date

C.E. Ritchie,
Sr. Supervisor - Testing,
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C.E. Ritchie 3-22-82
Signature Date

TEST & MEASUREMENT LAB REPORT

REPORT NUMBER:

REPORT TITLE:

Bolt Action Carbine Preliminary Design Rifles

MODEL(S):

Initial Function Test

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. 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 Lion 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 222 CAL. Preliminary Measurements

	GUN NO.	1 B6364418	2 B6364423	3 B6364421	4 B6364422	5 B6364417	6
1	MEASUREMENTS						
2	HeadSpace (IN.)	MIN+0.013	MIN+0.012	MIN+0.011	MIN+0.012	MIN+0.013	
3							
4	Safe ON (LBS)	6.0	5.25	5.75	6.0	7.0	
5							
6							
7	Safe OFF (LBS)	6.25	5.5	6.25	6.5	5.0	
8							
9	Firing Pin	.022	.024	.023	.023	.025	
10	Indent (IN.)						
11							
12							
13	Trigger Pull (LBS)	5.5	4.5	5.0	5.0	6.5	
14							
15	Bolt open						
16	Force (LBS)						
17							
18	Cocked	4.50	5.50	11.0	6.0	5.0	
19							
20	Fired	8.0	11.0	9.0	7.5	8.0	
21							
22							
23	Gun Length	37 7/8"	37 7/8"	37 7/8"	37 3/8"	37 7/8"	
24							
25							
26	Gun Weight (LBS)	6.2	6.2	6.3	6.11	6.11	
27							
28							
29	Center of Gravity (IN.)	25R	27R	27R	29R	32R	
30							
31							
32							
33	Safety Check	OK	OK	OK	OK	OK	
34							
35							
36							
37							
38							
39							
40							