

REMINGTON ARMS COMPANY, INC.

INTERDEPARTMENTAL CORRESPONDENCE



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"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" \_\_\_\_\_

RESEARCH TEST and MEASUREMENT REPORT - Report No. 830241

M/SEVEN LWT. .308 CALIBER - REDESIGNED FLOOR PLATE LATCH SYSTEM EVALUATION  
(SPRING LOADED BALL TYPE DESIGN)

Prepared by: J. Baggetta

Date Prepared: 2-1-83

Proofread and Cleared By:

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

R.E. Nightingale 2-21-83  
Signature Date

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

C.E. Ritchie 2/21/83  
Signature Date

TEST & MEASUREMENT LAB REPORT

REPORT NUMBER: 830241  
REPORT TITLE: M/Seven LWT. .308 Caliber - Redesigned Floor Plate Latch System  
Evaluation (Spring Loaded Ball Type Design)  
MODEL(S): M/Seven LWT.  
GAUGE OR CALIBER: .308  
DATE: 1-24-83  
WORK ORDER NO.: C-1856-000  
PART NAME: Latch  
DESIGNER/ENGINEER: T. J. Plunkett

TEST TYPE:

1. PHOTO LAB
2. STRENGTH TEST - NO. OF GUNS TESTED \_\_\_\_\_
3. FUNCTION TEST - NO. OF GUNS TESTED 3
4. ACCURACY TEST - NO. OF GUNS TESTED \_\_\_\_\_
5. MEASUREMENTS - TYPE: Headspace
6. ENVIRONMENTAL TEST
7. AMMUNITION TESTING & EVALUATION - TYPE: \_\_\_\_\_
8. VISUAL EVALUATION - \_\_\_\_\_ OUT OF \_\_\_\_\_ GUN SAMPLE
9. ENDURANCE - NO. OF GUNS TESTED: 3

NO. OF ROUNDS PER GUN: 30

TOTAL ROUNDS FIRED IN TEST: 90

AMMO TYPE: MAGS. \_\_\_\_\_; TARGET: \_\_\_\_\_

RIM FIRE \_\_\_\_\_ CENTER FIRE X

February 1, 1983

TO: R. NIGHTINGALE  
FROM: J. BAGGETTA  
REPORT TITLE: M/SEVEN LWT. .308 CALIBER - REDESIGNED FLOOR PLATE LATCHING  
SYSTEM EVALUATION

ABSTRACT

A request was received from T. Plunkett, Current Firearms Design, to evaluate the M/Seven LWT., redesigned Floor Plate Latching System. (Spring Loaded Ball Type Design.)

SCOPE OF TEST

To evaluate the performance of the redesigned M/Seven LWT. - .308 Caliber Floor Plate Latching System checking the floor plate latch opening on recoil.

TEST RESULTS

A. Jack Live Round Fire Function Test

- o Three M/Seven LWT. .308 caliber rifles were fired a total of 45 rounds (15 rounds each) experiencing no malfunctions.

B. Field Function Test

- o Three M/Seven LWT. .308 caliber rifles were fired a total of 90 rounds (30 rounds each) experiencing no malfunctions.

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REPORT TEXT

Three (3) M/Seven LWT. .308 caliber rifles with the redesign latch (spring loaded ball-type design) were fired a total of 90 rounds (.30 rounds each) experiencing no malfunctions.

TEST PROCEDURE

A. Measurements

- o Headspace – (Refer to Appendix "A" Data Sheet No. 1.

B. Test Conditions

Condition No. 1 – Indoor Jack Shooting

- o The test was run using the Test Lab shooting room jacks.
- o The rifles were loaded with 4 rounds in the magazine and one in the chamber.
- o Various speed feeds were used such as: Slow, Medium and Fast.

Condition No. 2 – Ilion Fish & Game Club Outdoor Range

- o The test was run using the Ilion Fish & Game Club Rifle Range.
- o The weather was overcast, 32° and windy.
- o The rifles were loaded with 4 rounds in the magazine and 1 in the chamber.
- o Various speed feeds were used such as: Slow, Medium and Fast.
- o Four shooters were used incorporating the round robin system.

C. Ammunition

Indoor Jack Shooting

- o Winchester - 200 gr. Silver Tip

Field Function Test

- o Remington - 180 gr. Soft Point
- o Winchester - 200 gr. Silver Tip

D. Rifles Used In Test

M/Seven LWT. .308 Caliber

7600139  
B6226256  
7600050

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REPORT TEXT - cont'd.

E. Hi-Speed Movies

- o Hi-Speed movies were previously taken of this design showing latch motion by Test Lab personnel in the Photo Lab Room.
- o Hi-Speed movies can be reviewed in the Photo Lab Room.

F. Photos

- o Pictures were taken of the redesigned M/Seven LWT. .308 caliber rifle. (Refer to Appendix "A" Data Sheet No. 2.)
- o Pictures were taken of the old style latch M/Seven LWT. .222 caliber rifle. (Refer to Appendix "A" Data Sheet No. 2.)

**A P P E N D I X " A "**

**D A T A S H E E T S**

## M-7 Lwt .308 Caliber Redesign Latch

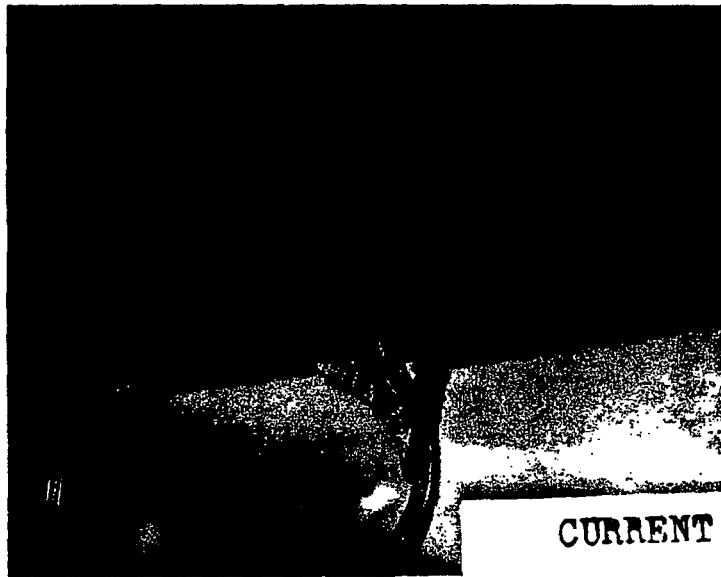
2-1-83

J.A.B.

	Measurements	Head Space Min +	1		2		3		4		5		6	
			GUN #											
1	B 6226256	.003"												
2														
3	B 7600139	.004"												
4														
5	7600050	.004"												
6														
7	* Remington	STANDARD												
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M-7 Lwt .222 caliber

Data sheet #2



M-7 Lwt 308 caliber

