

REMINGTON ARMS COMPANY, INC.

INTERDEPARTMENTAL CORRESPONDENCE

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Distribution: C. B. Workman
J. W. Brooks
C. E. Ritchie

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831291

830632

831791

RESEARCH TEST and MEASUREMENT REPORT - Report No.

MODEL SEVEN - .223 CALIBER - DESIGN ACCEPTANCE EVALUATION

Prepared by: C. Stephens

Date Prepared: July 11, 1983

Proofread and Cleared By:

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

R.E. Nightingale 7-21-83
Signature Date


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

C. E. Ritchie 7/21/83
Signature Date

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Prepared by: C. Stephens

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Signature Date

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TEST & MEASUREMENT LAB REPORT

REPORT NUMBER: 831791
REPORT TITLE: Model Seven .223 Cal. - Design Acceptance Evaluation
MODEL(S): Model Seven
GAUGE OR CALIBER: .223
DATE: 7-11-83
WORK ORDER NO.: C-1861-000
PART NAME:
DESIGNER/ENGINEER: J. W. Brooks

TEST TYPE:

1. PHOTO LAB
2. STRENGTH TEST - NO. OF GUNS TESTED _____
3. FUNCTION TEST - NO. OF GUNS TESTED 9
4. ACCURACY TEST - NO. OF GUNS TESTED 5
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: _____

RIM FIRE _____ CENTER FIRE _____

July 11, 1983

TO: R. E. NIGHTINGALE

FROM: C. STEPHENS

REPORT TITLE: MODEL SEVEN .223 CAL. - DESIGN ACCEPTANCE EVALUATION

ABSTRACT

On 6-28-83, a request was received from J. W. Brooks, Supervisor, Current Products Design, to function test nine rifles from the shoulder and test five for accuracy.

SCOPE

To evaluate the acceptability of the Model Seven .223 caliber into the Model Seven rifle line.

TEST RESULTS

The results show a malfunction rate of 1.8 with three malfunctions out of 162 rds. shot. The five rifles shot for accuracy were all within Remington Specs. which is 2.2 ins.

The nine rifles were previously used in two function tests and had feeding malfunctions (Report No.'s 831291 and 830632).

REPORT TEXT

Nine Model Seven rifles used in a previous function test (Report No. 831291) were used in the test. Each rifle was shot a total of 18 rounds using slow, medium and fast rates of feed. The magazine box from Rifle No. 7600150 was used in all the rifles. Each magazine spring was checked to make sure it was forward in the follower and latch cover. A total of 162 rounds were shot with 3 malfunctions. Appendix "A" Data Sheets 1 - 10 contains the summary and individual information for each rifle.

After the function test, five rifles were tested for accuracy. Each rifle was shot for three five shot groups with each group and then one fouling shot fired after cooling. Each rifle bore was wire brushed with Hoppe's No. 9 solvent and patched dry. Each rifle was shot using a 10X Lyman Scope with a Tasco mount, Weaver Scope Rings and Remington 55 gr. pointed soft point ammunition.

The average group size was within Remington specifications for all five rifles. Data Sheets 11 - 15 contain the individual information for each rifle.

TEST PROCEDURE

A. Measurements

No measurements were taken.

B. Test Condition

1. Same code of ammunition to be used.

C. Test

The function test was conducted in the R & D 50 yd. range by C. Stephens and F. Supry. Eighteen rounds shot per gun using slow, medium and fast feeding. The same magazine box was used for all rifles and each magazine spring checked to make sure it was all the way forward in the follower and latch cover.

The accuracy test was shot in the R & D 100 yd. range by R. Williams and C. Stephens. Three five shot groups were fired per rifle.

D. Ammunition

1. Remington 55 gr. Pointed Soft Point (Code D3633).

R2515037

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KINZER V. REMINGTON