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Distribution: C. B. Workman  
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RESEARCH TEST and MEASUREMENT REPORT - Report No. 832093

M/700 LONG ACTION RIFLE .243 CALIBER WITH LONG ACTION NO-BIND FOLLOWER  
FUNCTION TEST

Prepared by: J. Baggetta

Date Prepared: 8-15-83

Processed and Cleared By:

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

R.E. Nighthale 8-15-83  
Signature Date

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

C.E. Ritchie 8/17/83  
Signature Date

TEST & MEASUREMENT LAB REPORT

REPORT NUMBER: 832093  
 REPORT TITLE: M/700 Long Action Rifle .243 Caliber With Long Action  
 No-Bind - Function Test  
 MODEL(S): 700  
 GAUGE OR CALIBER: .243  
 DATE: 7/28/83  
 WORK ORDER NO.: C-0103-000  
 PART NAME: Long Action No-Bind Follower  
 DESIGNER/ENGINEER: J. W. Brooks

TEST TYPE:

1. PHOTO LAB
  2. STRENGTH TEST - NO. OF GUNS TESTED \_\_\_\_\_
  3. FUNCTION TEST - NO. OF GUNS TESTED 10
  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: 10
- NO. OF ROUNDS PER GUN: 120
- TOTAL ROUNDS FIRED IN TEST: 1200
- AMMO TYPE: MAGS. \_\_\_\_\_; TARGET: \_\_\_\_\_
- RIM FIRE \_\_\_\_\_ CENTER FIRE X

REMINGTON ARMS CO., INC.  
Firearms Research Division

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August 15, 1983

TO: J. W. BROOKS

FROM: J. BAGGETTA

REPORT TITLE: M/700 LONG ACTION RIFLE .243 CALIBER WITH LONG ACTION  
NO-BIND FOLLOWER - FUNCTION TEST

ABSTRACT

A work request was received from J. W. Brooks, Supervisor of Current Products Design to evaluate the M/700 Long Action Rifle .243 caliber with the Long Action No-Bind Follower.

SCOPE OF TEST

To evaluate the performance of the M/700 Long Action Rifle with the Long Action No-Bind Follower, checking for feeding malfunctions.

TEST RESULTS

A. Jack Live Round Unload Function Test

.243 Caliber - Ten rifles were used; four rifles experienced 13 malfunctions occurring in 300 rounds for an overall malfunction rate of 4.3%.

B. Field Function Test

.243 Caliber - Fired 1200 rounds (120 rounds each). Experienced 45 follower related malfunctions for an overall rate of 3.8%.

M/700 Long Action Rifle .243 Caliber With Long Action  
No-Bind Follower - Function Test

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**REPORT TEXT**

A. The following rifles experienced malfunctions during the Jack Live Round Unload Test in R & D Shooting Room.

1.) .243 Caliber

- o B6424622 - 1 stem chamber low.
- o B6433879 - 4 shell jumps magazine, 2 bolt override.
- o B6424043 - 4 follower tip down.
- o B6433921 - 2 follower Tip Down.

B. The following rifles experienced follower related malfunctions during the Field Function Test at the Ilion Fish & Game Club rifle range.

1.) .243 Caliber

- o B6433523 - 3 stem chamber low, 1 follower tip down.
- o B6423994 - 6 stem chamber low, 4 shell jumps magazine, 2 follower tip down.
- o B6433879 - 2 stem chamber low, 22 shell jumps magazine.
- o B6474729 - 1 follower tip down.
- o B6433921 - 1 stem chamber low, 1 follower tip down.
- o B6446976 - 1 follower tip down.
- o B6423989 - 1 stem chamber low.

C. The following rifles were used in the Long Action No-Bind Follower test:

.243 Caliber

B6424622	B6474729
B6433523	B6433921
B6423994	B6446976
B6433879	B6424046
B6424043	B6423989

M/700 Long Action Rifle .243 Caliber With Long Action  
No-Bind Follower - Function Test

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**TEST PROCEDURE**

**A. Measurements**

- 1.) Headspace taken by Test Lab personnel. Details can be found in 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 jacks.
- o The rifles were loaded with 4 rounds in magazine and 1 in chamber.
- o Various speed feeds were used such as: slow, medium and fast.
- o The rifles were live round unload tested. No live fire tests were run in the jacks.

**Condition No. 2 - Lion Fish & Game Club Outdoor Range**

- o The test was run using the Lion Fish & Game Club 100 yard range.
- o The rifles were loaded with 4 rounds in magazine and 1 in chamber.
- o Various speed feeds were used such as: slow, medium and fast.
- o Five shooters were used incorporating the round robin system.

**C. Ammunition**

- o See Data Sheet No. 2 in Appendix "A" on ammunition used.

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No-Bind Follower - Function Test

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APPENDIX " A "

M/700 Long Action Rifle .243 Caliber With Long Action  
No-Bind Follower - Function Test

Report No. 832093  
Sheet No. 1

M/700 .243 ADL Restyle

Headspace

1.	B6424622	-	Min. +	.001
2.	B6433523	-	Min. +	.003
3.	B6423994	-	Min. +	.004
4.	B6433879	-	Min. +	.004
5.	B6424043	-	Min. +	.005
6.	B6474729	-	Min. +	.002
7.	B6433921	-	Min. +	.004
8.	B6446976	-	Min. +	.002
9.	B6424046	-	Min. +	.002
10.	B6423989	-	Min. +	.002

M/700 Long Action Rifle .243 CALiber With Long Action  
No-Bind Follower - Function Test

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Sheet No. 2

Ammunition Used In Live Round Feed

.243 Caliber

Remington 80 Pointed Soft Point  
Remington 100 Pointed Soft Point

Ammunition Used In Live Round Firing

.243 Caliber

Remington 80 Pointed Soft Point  
Remington 80 Hollow Point  
Remington 100 Pointed Soft Point

Federal 80 Soft Point  
Federal 100 Soft Point  
Federal 85 Premium

Winchester 80 Pointed Soft Point  
Winchester 100 Power Point