REMINGTON ARMS COMPANY, INC. Disenbutton: C. B. Workman C. E. Ritchie J. W. Brooks "CONFINE YOUR LETTER TO ONE SUBJECT ONLY". RESEARCH TEST and MEASUREMENT REPORT - Report No. 832093. M/700 LONG ACTION RIFLE .243 CALIBER WITH LONG ACTION NO BIND FOLLOWER **FUNCTION TEST** 

Ban Rithing 8/17/52

#### 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
4	ACCURACY TEST - NO. OF GUNS TESTED
<b>5.</b>	MEASUREMENTS - TYPE: Headspace
6.	ENVIRONMENTAL TEST
7.	Ammunition testing & Evaluation - Type:
<b>&amp;</b> .	VISUAL EVALUATION - OUT OF GUN SAMPLE
9.	ENDURANCE - NO. OF GUNS TESTED:10
	NO. OF ROUNDS FER GUN: 120
	TOTAL ROUNDS FIRED IN TEST: 1200
	ANDMO TYPE: MAGS TARGET:
	RIM FIRE CENTER FIRE X
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REMINGTON ARMS CO., INC. Firearms Research Division

Report No. 832093 Page 1

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 Rifls .243 caliber with the Long Action No-Bind Follower.

To evaluate the performance of the M/700 Long Action Rifls 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%.

#### REPORT TEXT

- A. The following rifles experienced malfunctions during the Jack Live Round Unload Test in R & D Shooting Room.
  - 1.) .243 Caliber
    - o B6434622 1 stem chamber low.
    - 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 llion Fish & Game Club rifle range.
  - 1.) .243 Caliber
    - 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 text:

.243	Caliber
B424622	B6474729
B6433523	B6433921
B6423994	B6446976
B6433879	B6424046
B6424043	B6423989

#### TEST PROCEDURE

#### A. Measurements

 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

- The test was run using the Test Lab shooting jacks.
- 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.
- The rifles were live round unload tested. No live fire tests were run
  in the jacks.

#### Condition No. 2 - Ilion Fish & Game Club Outdoor Range

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

#### C. Ammunition

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

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

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APPENDIX "A

#### M/700 .243 ADL Restyle Min. + .001, B6424622 .003 B6433523 Min. + B6423994 Min. + .004 B6433879 Min. + .004 Min. + .005 B6424043 .002 B6474729 Min. + B6433921 Min. + .004 B6446976 Min. + .002 B6424046 .002 Min. + .002 10. B6423989 Min. +

#### M/700 Long Action Rifls .243 CAliber With Long Action No-Bind Follower — Function Test

Report No. 832093 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