

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE



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

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" _____

RESEARCH TEST and MEASUREMENT REPORT - Report No. 820491

M/SEVEN LWT. NO-BIND STAMPED FOLLOWER - FUNCTION TEST FOR
243,6MM & 308 CALIBER

Prepared by: J. Baggetta

Date Prepared: 11-15-82

Proofread and Cleared By:

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

James Hennings 1-14-83
Signature Date

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

C. Evan Ritchie 1/14/83
Signature Date

TEST & MEASUREMENT LAB REPORT

REPORT NUMBER: 820491
REPORT TITLE: M/Seven LWT. No-Bind Stamped Follower -- Function Test for
243, 6MM and 308 Caliber
MODEL(S): Seven LWT.
GAUGE OR CALIBER: 243, 6MM, 308
DATE: 11-15-82
WORK ORDER NO.: C-1856
PART NAME: No-Bind Stamped Follower
DESIGNER/ENGINEER: D. Bullis

TEST TYPE:

1. PHOTO LAB
2. STRENGTH TEST - NO. OF GUNS TESTED _____
3. FUNCTION TEST - NO. OF GUNS TESTED 14
4. ACCURACY TEST - NO. OF GUNS TESTED _____
5. MEASUREMENTS - TYPE: Static
6. ENVIRONMENTAL TEST
7. AMMUNITION TESTING & EVALUATION - TYPE: _____
8. VISUAL EVALUATION - _____ OUT OF _____ GUN SAMPLE
9. ENDURANCE - NO. OF GUNS TESTED: 14

NO. OF ROUNDS PER GUN: 75 - 150

TOTAL ROUNDS FIRED IN TEST: 1845

AMMO TYPE: MAGS. _____; TARGET: _____

RIM FIRE _____ CENTER FIRE X

November 15, 1982

TO: J. H. Hennings

FROM: J. Baggetta

REPORT TITLE: M/SEVEN LWT. NO-BIND STAMPED FOLLOWER - FUNCTION TEST FOR
243, 6MM, and 308 CALIBERS

ABSTRACT

A work request was received from D. E. Bullis, Current Products Design, to evaluate the M/Seven Lwt. 243, 6MM and 308 caliber No-Bind Stamped Follower.

SCOPE OF TEST

To evaluate the performance of the M/Seven LWT. No-Bind Stamped Follower checking the floor plate latch opening on recoil.

TEST RESULTS

A. Jack Live Round Unload Function Test

1. 308 Caliber - Of the 4 rifles used, 2 experienced 7 malfunctions occurring in 160 rounds for an overall malfunction rate of 4.4%.
2. 243 Caliber - Five rifles were used, one rifle experienced 3 malfunctions occurring in 160 rounds for an overall malfunction rate of 1.5%.
3. 6MM Caliber - Five rifles were used with one rifle experiencing 2 malfunctions occurring in 160 rounds for an overall malfunction rate of 1.0%.

B. Field Function Test

1. 308 Caliber - Fired 720 rounds (180 rounds each) experienced 1 malfunction for an overall rate of 0.1%.
2. 243 Caliber - Fired 600 rounds (75 rounds each) experienced 10 malfunctions for an overall rate of 1.7%.
3. 6MM Caliber - Fired 527 rounds (75 rounds each) no malfunctions occurred.

REPORT TEXT

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

1. 308 Caliber – B6226276 – 3 Bolt override
2. 308 Caliber – B6226264 – 4 malfunctions: 1 stem chamber low,
3 stem chamber right
3. 6MM Caliber – B6226233 – 2 Bolt override
4. 243 Caliber – B6226262 – 3 Bolt override

B. The following rifles experienced malfunctions during the Field Function Test at the Lion Fish & Game Club rifle range :

1. 308 Caliber – B6226264 – 1 doesn't eject
2. 243 Caliber – B6226262 – 10 Bolt override

C. The following rifles were used in the No-Bind Stamped Follower Test:

308 Caliber

B6226276
B6226256
B6226264
B6226237

6MM Caliber

B6226233
B6226263
B6226255
B6226230
B6226258

243 Caliber

B6226266
B6226225
B6226234
B6226262
B6226272

TEST PROCEDURE

A. Measurements

1. Measurements 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 the chamber.
- o Various speed feeds were used such as: slow, medium, fast and a combination feed speed. (Slow, medium, fast.)
- o The rifles were live round unload tested. No live fire test were run in the jacks.

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

- o The test was run using the Ilion Fish & Game Club 100 yard range.
- o The rifles were loaded with 4 rounds in magazine and 1 in the chamber.
- o Various speed feeds were used such as: slow, medium, fast and a combination feed speed. (Slow, Medium, Fast.)
- o Four shooters were used incorporating the round robin system.

C. Ammunition

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

" APPENDIX " A "

M-7 Lwt. Carb. No Bind Stamped Follower

3.12.82

CAI	Measurements	Head Serial MIN +	Safe ON lbs.	Safe OFF lbs.	Firing Pin IN.	Bolt open Force Coked Do	Bolt open Force Dry Fired Do	Flt. with Spring Release	Gun Length IN.	Gun Weight Lbs.	Center of Gravity IN.
248	B 622-6266	008	45	42	005	30	55	40	37 3/4"	45	28" R
249	B 622-6265	007	55	53	005	30	57	38	37 3/4"	44	28" R
243	B 622-6234	004	53	51	004	30	40	35	37 3/4"	40	26" R
243	B 622-6262	004	57	50	003	30	40	50	37 3/4"	42	26" R
243	B 622-6271	004	55	48	004	30	40	36	37 3/4"	41	26" R
244	B 622-6255	004	50	50	003	30	40	44	37 3/4"	41	26" R
244	B 622-6233	004	48	52	004	30	43	19	37 3/4"	50 1/4	26" R
244	B 622-6258	003	47	53	004	20	60	27	37 3/4"	41	27" R
244	B 622-6263	004	50	47	005	30	55	24	37 3/4"	45	30" R
244	B 622-6230	004	50	40	005	30	55	35	37 3/4"	41	27" R
244	B 622-6276	004	49	48	005	30	53	46	37 3/4"	43	26" R
244	B 622-6256	003	55	47	005	30	52	19	37 3/4"	41	26" R
244	B 622-6264	003	50	55	005	25	53	43	37 3/4"	40	26" R
244	B 622-6237	004	60	57	004	15	58	38	37 3/4"	50 1/4	28" R

Ammunition Used Live Round Feed

.308 Caliber

Remington 150 Pointed Soft Point
Remington 180 Soft Point

6MM Caliber

Remington 80 Pointed Soft Point
Remington 100 Pointed Soft Point

243 Caliber

Remington 80 Pointed Soft Point
Remington 100 Pointed Soft Point

Ammunition Used Live Round Firing

.308 Caliber

Remington 150 Pointed Soft Point
Remington 180 Soft Point
Remington 180 Pointed Soft Point
Winchester 110 Pointed Soft Point
Winchester 125 Power Point
Winchester 150 Silver Tip
Winchester 150 Power Point
Winchester 180 Silver Tip
Winchester 200 Silver Tip
Federal 150 Pointed Soft Point
Federal 180 Pointed Soft Point
Federal 165 Premium Boat Tail

6MM Caliber

Remington 80 Pointed Soft Point
Remington 80 Hollow Point
Remington 100 Pointed Soft Point
Winchester 80 Pointed Soft Point
Winchester 100 Pointed Soft Point
Federal 80 Soft Point
Federal 100 Soft Point

243 Caliber

Remington 80 Pointed Soft Point
Remington 80 Hollow Point
Remington 100 Pointed Soft Point
Winchester 80 Pointed Soft Point
Winchester 100 Power Point
Federal 80 Soft Point
Federal 100 Soft Point
Federal 85 Premium