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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:

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*James Hennings* 1-14-83  
Signature Date

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*C. E. 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 "

3.12.82 M-7Lw.t Carbine No Bind Stamped Follower

Report No. 820491  
Sheet #1  
J.A.B

3.12.82

Measurements		Head Serial MIN +	Safe ON lbs.	Safe OFF lbs.	Firing Pin Index IN.	Bolt Open Force Coked lbs.	6				7		8		9		10		11	
CA	Gun #							Fired lbs.	Trigged Pull lbs.	Firing Release	Gun Length IN.	Gun Weight lbs.	Center of Gravity IN.							
048	B6226266	003	45	42	005	30	55	400	40	37 3/4"	45	28" R								
043	B6226225	004	55	53	005	20	52	415	38	37 3/4"	44	28" R								
043	B6226234	004	50	53	004	35	60	500	35	37 3/4"	40	26" R								
043	B6226262	004	57	50	003	30	60	435	50	37 3/4"	42	28" R								
043	B6226271	004	55	48	004	30	60	50	36	37 3/4"	40	28" R								
044	B6226255	004	50	50	003	30	60	475	44	37 3/4"	40	28" R								
044	B6226233	004	48	53	004	30	63	40	19	37 3/4"	50 1/4	26" R								
044	B6226258	003	47	53	004	20	60	54	27	37 3/4"	40	27" R								
044	B6226263	004	54	47	005	30	55	53	24	37 3/4"	45	30" R								
044	B6226230	004	50	40	005	35	55	49	35	37 3/4"	41	27" R								
008	B6226276	004	49	38	005	38	53	51	44	37 3/4"	63	28" R								
008	B6226256	003	55	47	005	38	52	50	19	37 3/4"	74	22" R								
008	B6226264	003	50	55	005	25	53	50	43	37 3/4"	60	28" R								
008	B6226237	004	60	57	004	15	58	52	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