

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

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

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"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" _____

RESEARCH TEST and MEASUREMENT REPORT - Report No. 823401

M/700 ADL - 222 CALIBER FUNCTION TEST DESIGN NO. 1 STAMPED NO-BIND FOLLOWER

Prepared by: J. Baggetta

Date Prepared: 12/6/82

Proofread and Cleared By:

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

[Signature]
Signature

12/8/82
Date

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

[Signature]
Signature

12/8/82
Date

TEST & MEASUREMENT LAB REPORT

REPORT NUMBER: 823401
 REPORT TITLE: M/700 ADL - .222 CALIBER FUNCTION TEST DESIGN NO. 1
 STAMPED NO-BIND FOLLOWER
 MODEL(S): M/700
 GAUGE OR CALIBER: 222
 DATE: 12-6-82
 WORK ORDER NO.:
 PART NAME:
 DESIGNER/ENGINEER: P. Nasypany

TEST TYPE:

1. PHOTO LAB
2. STRENGTH TEST - NO. OF GUNS TESTED _____
3. FUNCTION TEST - NO. OF GUNS TESTED 5
4. ACCURACY TEST - NO. OF GUNS TESTED _____
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: 630

AMMO TYPE: MAGS. _____; TARGET: _____

RIM FIRE _____ CENTER FIRE _____

December 6, 1982

TO: J. H. HENNINGS

FROM: J. BAGGETTA

TEST TITLE: M/700 ADL - 222 CALIBER FUNCTION TEST DESIGN NO. 1 STAMPED
NO - BIND FOLLOWER

ABSTRACT

On 12-6-82, a request was received from P. Nasypany, Current Production Design, to field function test 5 M/700 ADL - 222 caliber with Design No. 1 Stamped No-Bind Followers.

SCOPE OF TEST

To evaluate the M/700 ADL - 222 caliber, Design No. 1 Stamped No-Bind Follower to compare to the Design No. 2 Stamped No-Bind Follower.

TEST RESULTS

Five rifles with Design No. 1 Stamped No-Bind Follower with the current production spring not altered was fired a total of 630 rounds experiencing 32 malfunctions for an overall malfunction rate of 5.1%. Five rifles with Design No. 1 Stamped No-Bind Follower with the current production spring altered by final assembly was fired a total of 630 rounds experiencing 45 malfunctions for an overall malfunction rate of 7.1%.

REPORT TEXT

Five rifles with the Design No. 1 Stamped No-Bind Follower and Current Production Spring not altered was fired 630 rounds with 32 malfunctions occurring. See Data Sheet No. 1, Appendix "A".

Five rifles with the Design No. 1 Stamped No-Bind Follower and Current Production Spring altered by final assembly was fired 630 rounds with 45 malfunctions occurring. See Data Sheet No. 2, Appendix "A".

TEST PROCEDURE

- A. The Stamped No-Bind Followers were assembled into the Current Production Spring that were altered by final assembly and the Current Production Spring not altered.
- B. The Field Function Test was run at the Ilion Fish and Game Club Rifle Range. The weather was sunny and 44°. It was a one page field function test, allowing 126 rounds per rifle. The round robin system was used in this test. Each man took eighteen rounds of each bullet weight per ammo type and fired 6 rounds at a time, using the feed rate - 6 rounds slow, 6 rounds medium, 6 rounds fast. The rifles were cooled every 18 rounds (able to hold barrel in hand).
- C. The rifles used in Field Cycle were M/700 ADL - 222 Caliber.

Serial Numbers

B-6327452
B-6327692
B-6359016
B-6359240
B-6360429

- D. Ammunition used in Field Cycle Test were:

- o Remington - 50 gr. - Pointed Soft Point
- o Remington - 50 gr. - Hollow Point
- o Remington - 55 gr. - Metal Case
- o Federal - 50 gr. - Soft Point
- o Federal - 55 gr. - Metal Case - Boat-Tail
- o Winchester - 50 gr. - Pointed Soft Point
- o Winchester - 55 gr. - Metal Case

" A P P E N D I X " A "

Data Sheets

FIELD CYCLE TEST - CENTER FIRE

REPORT NO. 1 25101
Sheet # 2

PAGE NO.

DATE: 12 8 82

MODEL: 700 PDL

GAUGE: 222

SERIAL NO.

PREVIOUS
ROUNDS

TEST TITLE: SUMMARY SHEETS PER - RIFLE - AMMO TYPE - SHOOTER

Design #1 stamped No. 8150 followed by
correct production spring allowed
by 1-11-81 Assembly

"MALFUNCTIONS"

TTL. RDS. FIRED:

TTL. MALFUNCTIONS:

MALFUNCTION RATE:

SUMMARY SHEET BY	SHOTS	NO. OF ROUNDS FIRED	FIRING	TRAP FIRED SHELL	DON'T EXTRACT	DON'T EJECT BACK	DON'T LOCK OPEN	FEED FROM MAG.		SHELL STOPS MAG.	POWER OVERRIDE	DON'T LOCK UP	STEM CHAMBER				SHELL JUMPS MAG.	FOLLOWER BINDS	LOADING	BOLT OVERRIDE	ACTION HANG UP	DON'T EXTRACT	SCREW DRIVERS	ADJUSTERS	REPLACEMENTS	MALFUNCTIONS PER RITE	MALFUNCTIONS PER Rite	RESALE R01M3022 PER DATE FIVE	
								1st	2nd				HIGH	LOW	HIGH	LOW													
								1st	2nd				1st	2nd	1st	2nd													
B 6327452		126											7														5.6	5.6	
B 6327692		126											1			1											1.6	1.6	
B 6359016		126											2						19								16.7	16.7	
B 6359240		126											1														0.8	0.8	
B 6360427		126											9	1		4											11.1	11.1	
TOTAL (PER MAL.)																													

BARBER - PRESALE R 0113022
SEE STATE FILE

FIELD CYCLE TEST - CENTERFIRE

REFROT NO. 1 825401
Sheet # 1

PAGE NO. 1

PREVIOUS
ROUND

DATE: 12-7-82

MODEL: 700 APL

GAUGE: 222

SERIAL NO.

TEST TITLE: SUMMARY SHEETS PER - RIFLE - AMMO TYPE - SHOOTER

Design #1 stamped No. 81150 Followed
current production of 81150 not altered
MALFUNCTIONS

TTL. RDG. FIRED:
TTL. MALFUNCTIONS:
MALFUNCTION RATE:

SUMMARY SHEET BY	SHELLS CHARGE TO	FIRING	PRESSURE CHARGE	DO NOT T.M.	DO NOT T.M.	DO NOT T.M.	FRED FROM No.	SHELL STAYS MAG.	POWER OVERIDE	DO NOT LOCK UP	STEM CHAMBER				SHELL JUGS MAG.	FOLLOWER BIDS	LOADING	BOLT OVERIDE	ACTION HANG UP	DO NOT T.M.	SHELL JUGS	SHELLS CHARGE	SHELLS CHARGE	SHELLS CHARGE	SHELLS CHARGE	MALFUNCTIONS PER RATE	MALFUNCTIONS PER RATE
							1st LATCH	2nd LATCH			HEAD	LOW	RIGHT	LEFT													
B6327452	126										1															0.8	0.8
B6327692	126													1												0.8	0.8
B6359240	126								2		5			1				1								7.1	7.1
B6360429	126								1		5			9												11.9	11.9
B6359016	126								3					1				2								4.8	4.8
TOTAL (PER MAL.)																											