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"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" _____

RESEARCH TEST and MEASUREMENT REPORT - Report No. 822731

M/SEVEN LWT. .222 CALIBER STAMPED NO-BIND FOLLOWER vs. M/600 STAMPED
FOLLOWER COMPARISON TEST

Prepared by: J. Baggetta

Date Prepared: 1-24-83

Proofread and Cleared By:

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

R.E. Nightingale
Signature

2/1/83
Date

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

C.E. Ritchie
Signature

2/1/83
Date

TEST & MEASUREMENT LAB REPORT

REPORT NUMBER: 822731

REPORT TITLE: M/Seven LWT. .222 Caliber Stamped No-Bind Follower vs.
M/600 Stamped Follower Comparison Test

MODEL(S): M/Seven LWT.

GAUGE OR CALIBER: .222

DATE: 9-30-82

WORK ORDER NO.: C-1856-000

PART NAME:

DESIGNER/ENGINEER: D. Bullis

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: 5

NO. OF ROUNDS PER GUN: 75

TOTAL ROUNDS FIRED IN TEST: 750

AMMO TYPE: MAGS. _____; TARGET: _____

RIM FIRE _____ CENTER FIRE X

Two Followers Per Gun.

January 24, 1983

TO: R. E. NIGHTINGALE
FROM: J. BAGGETTA
REPORT TITLE: M/SEVEN LWT. .222 CALIBER STAMPED NO-BIND FOLLOWER vs.
M/600 STAMPED FOLLOWER COMPARISON TEST.

ABSTRACT

A request was received from D. Bullis, Current Firearms Design, to Field Function Test, 5 M/Seven LWT. .222 caliber with the Stamped No-Bind Follower vs. M/600 Stamped Follower.

SCOPE OF TEST

To evaluate the M/Seven LWT. .222 Caliber Stamped No-Bind Follower vs the M/600 Follower for feeding and ejection malfunctions.

TEST RESULTS

- 1.) Five (5) M/Seven LWT. .222 caliber were fired a total of 375 rounds (75 rounds each) experiencing a total of 45 malfunctions for an overall malfunction rate of 12.0%.
- 2.) Five (5) M/Seven LWT. .222 caliber with the M/600 Stamped Follower were fired a total of 375 rounds (75 rounds each) experiencing a total of 54 malfunctions for an overall malfunctions rate of 14.4%.

REPORT TEXT

- 1.) Five of the Stamped No-Bind Followers tested experienced a total of 45 malfunctions. For individual malfunction, see Appendix "A" Data Sheet No. 1.
- 2.) Four of the five M/600 Stamped Followers experienced 54 malfunctions. For individual malfunctions. See Appendix "A" Data Sheet No. 2.

TEST PROCEDURE

- 1.) Five (5) Stamped No-Bind Followers were assembled into the M/Seven LWT. .222 Caliber rifles, upon completion of this test, the 5 M/600 Stamped Followers were assembled into the M/Seven LWT. .222 caliber rifles.
- 2.) Field Function Test
 - The Field Function Test was run at the Ilion Fish & Game Club Rifle Range. Five men were used to fire the rifles, incorporating the round robin system. Each man took 15 rounds of each ammo. type and would fire 5 rounds each of Slow, Medium and Fast feed rate. The rifles were cooled every 15 rounds (able to hold barrel in hand). It was a one page Field Function Test.
- 3.) Ammunition
Ammunition used in the Field Function Test:
 - Remington - 50 gr. Pointed Soft Point
 - Remington - 50 gr. Hollow Point
 - Remington - 55 gr. Metal Case
 - Federal - 50 gr. Soft Point
 - Winchester - 50 gr. Pointed Soft Point
- 4.) Test Rifles
Rifles used in the Field Function Test:
 - M/Seven LWT. .222 Caliber
 - B6364423
 - B6364417
 - B6364418
 - B6364428
 - B6364421

" APPENDIX " A "

Data Sheets

30LLIS

FIELD CYCLE TEST - CENTER FIRE

REPORT NO. 1 822121

PAGE NO. 1

DATE: 10-12-82

MODEL: 7 LWT

CAL
GUAGE: .222

SERIAL NO. X

PREVIOUS
ROUND

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

TTL. RND. FIRED: 375

TTL. MALFUNCTIONS: 45

MALFUNCTION RATE: 12%

NEW DESIGN "NO BIND" FOLLOWER.

"MALFUNCTIONS"

SUMMARY SHEET BY <u>R. HOWE</u>	RND.	FEED FROM MAG.	1st LATCH	2nd LATCH	SHELL STOPS MAG.	POWER OVERRIDE	DON'T LOCK UP	OTM CHAMBER				SHELL JUMPS MAG.	FOLLOWER BINDS	LOADING	BOLT OVERRIDE	ACTION HANG UP	DON'T EXTRACT	FEED RAGES	ADJUSTMENTS	REPLACEMENTS	ACCORD HARD 5TH. R.D.	MALFUNCTIONS PER	MALF. RATE PER
								BLK	LC	BLK	LC												
B6364423	75									1												1	1.5%
B6364417	75									1	2	1										4	5.3%
B6364418	75							3	1	3		1			4						3	15	20%
B6364422	75							5				1										6	8%
B6364421	75								1		1	4			13							19	25.3%
TOTAL (PER MAL.)																							

BULLIS

PREVIOUS
NUMBER

DATE: 10-12-82

MODEL: 71W1

CAL.
GAGES: .222

SERIAL NO. X

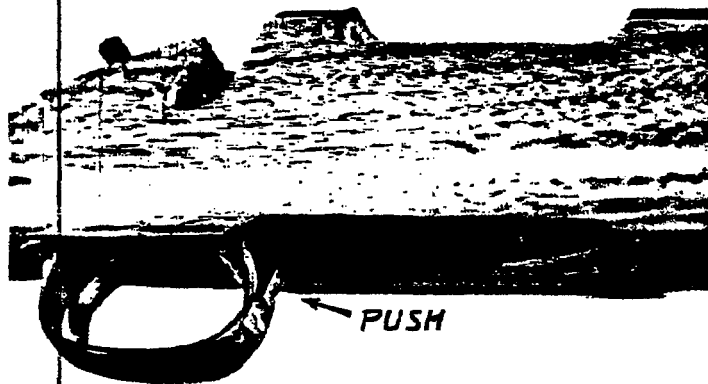
TEST TITLE: SUMMARY SHEETS PER - RIFLE - AMMO-TYPE - SHOOTER

TTL. RDS. FIRED: 375
TTL. MALFUNCTIONS: 54
MALFUNCTION RATE: 14.4%

STANDARD PRODUCTION STAMPED FOLLOWER "MALFUNCTIONS"

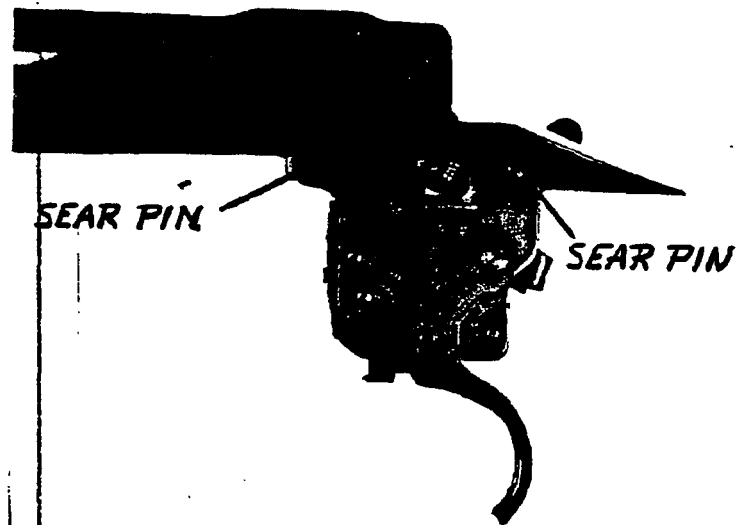
SUMMARY SHEET BY <u>R. Howe</u> SER. #	SHEET	NO. OF SHEETS USED	FOLLOWER	FEED FROM MAG.	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PICTURE # 1



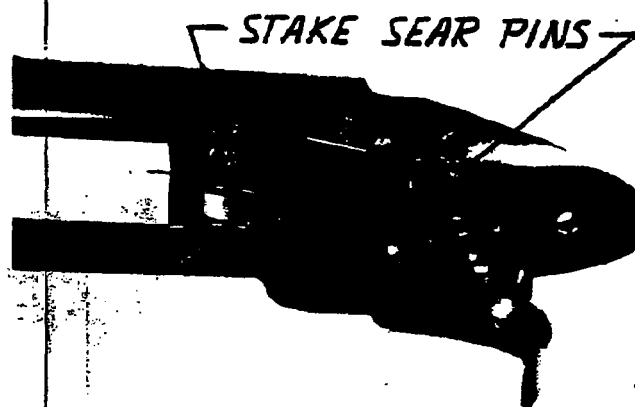
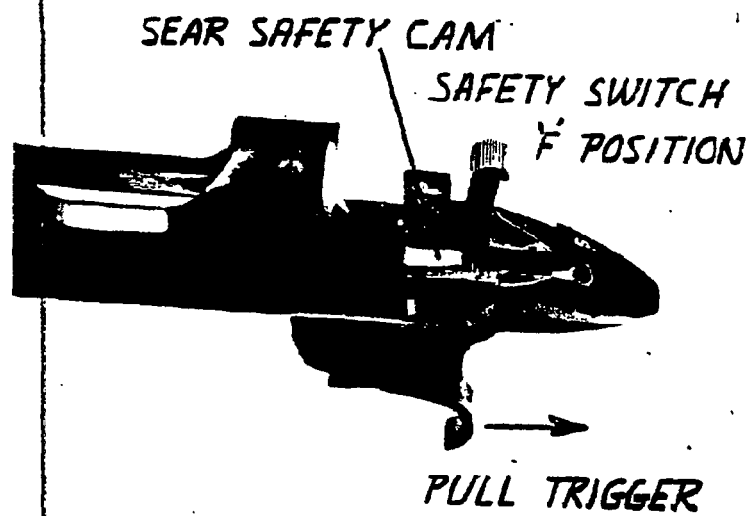
PICTURE # 2

PICTURE # 3



PICTURE # 4

PICTURE #5



PICTURE #6

PICTURE #7



- o Start magazine box into front of magazine opening in receiver.
- o Push rear of magazine box into magazine opening in receiver. Press box together while performing this operation.
- o Push box into magazine opening in receiver until it bottoms.