REMINSTON ARMS COMPANY, INC.

Remington

Distribution: C. B. Workman J. W. Brooks

C. E. Ritchie

P. Nasypany

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY".

RESEARCH TEST and MEASUREMENT REPORT - Report No. 821161

M/700 .222 CALIBER COMPARISON TEST - USING. THE STAMPED NO-BIND FOLLOWER VS CURRENT PRODUCTION SPRING UNALTERED AND ALTERED

Prepared by: J. Baggetta

Date Prepared: 1-27-83

Proofreed and Cleared By:

KINZER V. REMINGTON

Mees. & Mech. Analysis Lab

TEST & MEASUREMENT LAB REPORT

REPORT NUMBER:	821161												
REPORT TITLE:	M/700222 Caliber Comparison Test — (Using the Stamped No-Bind Follower VS Current Production Spring Unaltered and Altered												
MODEL(S):	700												
GAUGE OR CALIBER:	.222												
DATE:	4 -26-82												
WORK ORDER NO.:	C-5010-000												
PART NAME:	Stamped No-Bind Follower												
DESIGNER/ENGINEER:	P. Nasypany												
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												
5.	MEASUREMENTS - TYPE:												
6.	ENVIRONMENTAL TEST												
7.	Ammunition testing & Evaluation - Type:												
8.	VISUAL EVALUATION - OUT OF GUN SAMPLE												
9.	ENDURANCE - NO. OF GUNS TESTED: 7												
	NO. OF ROUNDS PER GUN: 150												
	TOTAL ROUNDS FIRED IN TEST: 2100												
	AMMO TYPE: MAGS; TARGET:												
	RIM FIRECENTER FIRE X												



January 27, 1983

TO:

R. E. NIGHTINGALE

FROM:

J. BAGGETTA

REPORT TITLE

M/700 .222 CALIBER COMPARISON TEST - USING THE STAMPED NO-BIND

FOLLOWER VS. CURRENT PRODUCTION SPRING UNALTERED & ALTERED

ABSTRACT

A request was received from P. Nasypany, Current Firearms Design, to evaluate 5 Stamped No-Bind Followers vs. the current production Cast Followers and the following Magazine Spring: Current production altered and unaltered.

SCOPE OF TEST

To evaluate and compare the results of the following Follower/Spring combinations:

- 1.) Current production Cast Magazine Follower/current production spring unaltered.
- 2.) Stamped No-Bind Follower/current production spring unaltered.
- 3.) Current production Cast Magazine Follower/current production spring altered.
- 4.) Stamped No-Bind Follower/current production spring altered.

TEST RESULTS

- 1.) The following followers were used with the current production spring unaltered.
 - Two control rifles were fired a total of 300 rounds (150 rounds each) experiencing 2 malfunctions for an overall malfunction rate of 0.7%.
 - Five stamped No-Bind Followers were fired a total of 750 rounds (150 rounds each) experisncing 45 malfunctions for an overall malfunction rate of 6.0%.
- 2.) The following followers were used with the current production spring altered by B. Joy, Process: Engineering.
 - Two control rifles were fired a total of 300 rounds (150 rounds each) experiencing 4 malfunctions for an overall malfunction rate of 1.3%.
 - Five stamped No-Bind Followers were fired a total of 750 rounds (150 rounds each) experiencing 66 malfunctions for an overall malfunction rate of 8.5%.



Prior to testing, the Followers were assembled into the M/700 .222 caliber rifles. There were two test conditions; first was current production spring unaltered and second was current production spring altered.

A. Measurements

No measurements were taken.

B. Field Function Test.

The Field Function Test was run at the Ilion Fish & Game Club Rifle Range. The rifles were cooled 30 rounds (able to hold barrel in hand). Five men were used to fire the rifles, incorporating the round robin system. Each man took 30 rounds of each bullet weight and ammo type and fired 5 rounds at a time, using the feed rate 10 rounds slow, 10 rounds medium and 10 rounds fast.

C. Ammunition

Ammunition used in Field Function Test:

- o Remington 50 gr. Pointed Soft Point
- o Remington 50 gr. Hollow Point
- o Remington 55 gr. Metal Case

D. Test Rifles

Rifles used in Field Function Test:

Samples	Control
B6293957	B6292414
B6294381	B6271098
B6292508	
B6293903	
B6271106	



REPORT TEXT

- A. Field Function Current Production Spring Unaltered.
 - o Current Cast Magazine Follower 2 Follower related malfunctions. (Refer to Appendix "A" Data Sheet No. 1.)
 - o Stamped No-Bind Follower 45 Follower related malfunctions. (Refer to Appendix "A" Data Sheet No. 1.)
- B. Field Function Current production spring altered.
 - Current Cast Magazine Follower 4 Follower related malfunctions. (Refer to Appendix "A" Data Sheet No. 2.)
 - o Stamped No-Bind Follower 66 Follower related malfunctions. (Refer to Appendix "A" Data Sheet No. 2.)

· "APPENDIX "A"

	_	_
i	1	٦
	ò	ק
	_	`
	4	
ı	Ń	٥
-	σ	Ō
	\	٥

FIELD	CYCLE	TEST	-	CENTERFIRE	

REPROT NO.1 82/16/

	4	•	•
-	10.		

DPJ	<i>[-</i>	2 HCC	140	
	GPDTAT.	NO.		

PREVIOUS
ROUNDS
TEST TITLE: SUMMARY

MODEL: 700

100ti 222

TTL. RDS. PIRED:

TTL. MALFUNCTIONS: MALFUNCTION RATE:

TEST TITLE: SUMMARY SHEETS PER - RIFLE - ANNO TYPE - SUCCESS

"MALFUNCTIONS"

Summary Sheet		ROLLING FIRED		223882	1300	CON SACE	DON'T LOCK CIESA	PEI PRI	OM	STEMS MAG.	OVERRIDE	E E		BT Clin	em Mber		JUNES MAG.	POLLOWER BINDS		ERDE	and the	TRACT	82	22	KATES		TONS FER Rate	4
Z Control	SHOOTER	10° G	7181310	TOWER CHEET	DON'T SIBLE	DOM'T BLOW	N T.MOC	Ist	end red		POWER O	DON'T LOCK UP	TITLE	101	PUZE	I ST	SHKLL J	FOLLOWE	COADENS	BOLE OVERRIDE	ACTION BANG UP	DOE'T EXTRACT	BEET FACES	ADJUSTORERES	REPLACEMENTS.		Fell ower	MIF. RATE
B6292363		140	===	===	=	=	==		: <u></u>			=		-	==	===	-==	===		=	⊨	⊨	=		=	-	0	0
86270227		150	-	-		┢┈	-						2						-	-	-	 	-	 		-	1.3	1,3
		Ť			T	T											-					1						
5 SAmples																												
55 Amples B6293957 B6294381		150											6														4.0	4.0
B 6294381		150											3	3		1	1			2							6.7	6.7
B6292508		15											1				15	Ŀ									10.7	10.7
B6293903		150							,				2			1	1.	L		2					_		4.0	4.0
B6271106		150					_									<u> </u>	5		L				<u> </u>		L		3.3	3.
		_	_				_				_					_					L	Ŀ	L	_		_		
	_	<u>L</u>	_		_	_	<u> </u>			_		_		_			_		_	_	_	_	_	_	_	_		
					L																				Ŀ			
TOTAL (PER MAL.)							<u></u>		L			<u></u>							L									

^{*} Control rifles had current cost magazine follower

[&]amp; Sample rifly had Stanged No- Bino Follower

TOTAL (PER MAL.)

		•.			
FIELD	CYCLE	TEST	_	CENTERFIRE	•

REPROT NO.: 82//6/

	MTB:	٠.	7-8	۷			MO	DEL	7	0 C				a	VACE	·	22	2		•	ø	eria	L NO	٠				
PREVIOUS	TEST '																	at				TTL. TTL. MALF	rds Mal Unct	. FI FUNC ION	red: Tion Rate	81_		
Produc	1104	رۍ ۲	17	43	i C	1 , 4	بهوط		180	<i>t</i> /	LIVIN .	ONCI	TOWN	E	10 t	3/1	P " b	y B	<u>9</u>	20	7		_				ارق	
Summary Sheet	•	ROUNDS FIRED		SPEKTAL	1787	DOB'TE BLOK BACK	DOR'T LOCK OFFI	MA	0H.	SHELL STENS MAG.	OVERRIDE	OCT UP		et Cim	'em Mben	l	JUMPS MAG.	POLICEMEN BOUNDS		BOLT OVERRIDE	BLEC UP	TERVET	n		E CONTRACTOR OF THE CONTRACTOR		TIONS ARE RATE	ALE, RATE PER OVER- ALL
2 Control	SHOOTIS	NO. OF ROLLINS	73.00	THE CHARLE	DOR'T BARCE	T T	1 T. T. 1	ŧ I	2nd	SHELL	POWER			3	RICELL	E .	SHELL	POLLOW	TOADTE	BOLL O	ACTION BARG UP	DOM'TE EXTRACT	SEPT VALE	ADJUSTMENTS	REPLACEMENTS		MALFUNCTIONS : Follower R	ALF. R
B6292414		150											T		Z													2.0
B 6271098		150												1													0.7	
			1	Γ													T .											
5 SAMples							Г	Π																				
B629395	7	150											3		1	2											4.0	4.0
B 629438		2,											1				10										7.3	7,3
3629250	8	150											1		1	2	15	·									12.7	12.7
B 629 390	3	150							<u>.</u>				4			1	14										12.7	12.7
B 627110		150											3				6	2									7.3	7.
					L																							
				Γ														·										

* Control rifly had current cost magazine follower

* SAMPLE rifles had stamped No. Bind Follower