

REMINGTON ARMS COMPANY, INC.

INTERDEPARTMENTAL CORRESPONDENCE

Remington

Model

Design

Model

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

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RESEARCH TEST and MEASUREMENT REPORT - Report No. 822011

M/700 ADL RESTYLE .222 CALIBER COMPARISON TEST - (USING CURRENT PRODUCTION
CAST MAGAZINE FOLLOWER, PRE-1974 STAMPED MAGAZINE FOLLOWER AND DESIGN NO. 2
STAMPED NO-BIND FOLLOWER VS. CURRENT PRODUCTION SPRING UNALTERED AND
ALTERED.)

Prepared by: J. Baggette

Date Prepared: 1-26-83

Reviewed and Cleared By:

J.H. Hendricks, / P.E. Nycholska,
Foreman-Test Lab / Foreman-Measurement Lab

Signature

Date

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

Signature

Date

TEST & MEASUREMENT LAB REPORT

REPORT NUMBER: 822911
 REPORT TITLE: M/700 ADL Restyle .222 Caliber Comparison Test -(Using the Current Production Cast Magazine Follower, Pre-1974 Stamped Magazine Follower & Design No. 2 Stamped No-Bind Follower Vs. Current Production Spring Unaltered and Altered.)
 MODEL(S): M/700 ADL
 GAUGE OR CALIBER: .222
 DATE: 10-18-82
 WORK ORDER NO.: C-1803-000
 PART NAME: Follower
 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: 5

NO. OF ROUNDS PER GUN: 126

TOTAL ROUNDS FIRED IN TEST: 3780

AMMO TYPE: MAGS. _____; TARGET: _____

RIM FIRE _____ CENTER FIRE X
 6 Different Conditions

REMINGTON ARMS CO., INC.
Firearms Research Division

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February 17, 1983

TO: R. NIGHTINGALE

FROM: J. BAGGETTA

REPORT TITLE: M/700 ADL RESTYLE .222 CALIBER COMPARISON TEST - (USING THE CURRENT PRODUCTION CAST MAGAZINE FOLLOWER PRE-1974 STAMPED MAGAZINE FOLLOWER AND DESIGN NO. 2 STAMPED NO-BIND FOLLOWER VS. CURRENT PRODUCTION SPRING BOTH UNALTERED AND ALTERED.)

ABSTRACT

A request was received from P. Nasypany, Current Firearm Design, to Field Function Test 5 M/700 ADL Restyle rifles with the following Followers: Current Production, Pre-1974 Stamped Follower and Design No. 2 Stamped No-Bind Follower 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.) Current Production Cast Magazine Follower/Current Production Spring (Altered)
- 3.) Pre-1974 Stamped Magazine Follower/Current Production Spring (Unaltered)
- 4.) Pre-1974 Stamped Magazine Follower/Current Production Spring (Altered)
- 5.) Design No. 2 Stamped No-Bind Follower/Current Production Spring (Unaltered)
- 6.) Design No. 2 Stamped No-Bind Follower/Current Production Spring (Altered)

TEST RESULTS

- 1.) The following Followers were used with the Current Production Spring altered by final assembly:
 - Five (5) Pre-1974 Followers were fired a total of 630 rounds (126 rounds each) experiencing 30 malfunctions for an overall malfunction rate of 4.8%.
 - Five (5) current production Cast Followers were fired 630 rounds (126 rounds each) experiencing 8 malfunctions for an overall malfunction rate of 1.3%.
 - Five Design No. 2 Stamped No-Bind Followers were fired 630 rounds (126 rounds each) experiencing 12 malfunctions for an overall malfunction rate of 1.9%.
- 2.) The following Followers were used with the current production Spring unaltered:
 - Five(5) Pre-1974 Followers were fired a total of 630 rounds (126 rounds each) experiencing 26 malfunctions for an overall malfunction rate of 4.1%.
 - Five (5) current production Cast Followers were fired 630 rounds (126 rounds each) experiencing 14 malfunctions for an overall malfunction rate of 2.2%.
 - Five Design No. 2 Stamped No-Bind Followers were fired 630 rounds (126 rounds each) experiencing 10 malfunctions for an overall malfunction rate of 1.6%.

REPORT TEXTA. Field Function - Current Production Spring Altered by final assembly

- o Pre-1974 Stamped Follower - 30 Follower related malfunctions (Refer to Appendix "A" Data Sheet No. 1.
- o Current Production Cast Follower - 8 Follower related malfunctions (Refer to Appendix "A" Data Sheet No. 2.
- o Design No. 2 Stamped No-Bind Follower - 12 Follower related malfunctions (Refer to Appendix "A" Data Sheet No. 3.

B. Field Function - Current Production Spring Not Altered

- o Pre-1974 Stamped Follower - 26 Follower related malfunctions (Refer to Appendix "A" Data Sheet No. 4.
- o Current Production Cast Follower - 14 Follower related malfunctions (Refer to Appendix "A" Data Sheet No. 5.
- o Design No. 2 Stamped No-Bind Follower - 10 Follower related malfunctions (Refer to Appendix "A" Data Sheet No. 6.

TEST PROCEDURE

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 by final assembly.

A. Field Function

The Field Function Test was run at the Ilion Fish & Game Club Rifle Range. It was a one page Field Function Test. Five men were used incorporating the round robin system. Each man went to the line with eighteen rounds of each ammo. type firing 6 rounds at a time, Slow, Medium and Fast feed rate. The rifles were cooled every 18 rounds (able to hold barrel in hand).

B. Ammunition

Ammunition used in the Field Function Test:

- 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

M/700 ADL Restyle .222 Caliber Comparison Test

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TEST PROCEDURE - cont'd.

C. Test Rifles

Rifles used in the Field Function Test:

M/700 ADL .222 Caliber

B6327452

B6327692

B6359016

B6359240

B6360429

APPENDIX "A"

DATA SHEETS

[illegible]

INQUIRY NUMBER	DATE	FIELD CYCLE TEST - CENTERFIRE	MODEL	AMMO	QUANTITY	DEFECT NO. 1	DEFECT NO. 2	DEFECT NO. 3	DEFECT NO. 4	DEFECT NO. 5	DEFECT NO. 6	DEFECT NO. 7	DEFECT NO. 8	DEFECT NO. 9	DEFECT NO. 10	DEFECT NO. 11	DEFECT NO. 12	DEFECT NO. 13	DEFECT NO. 14	DEFECT NO. 15	DEFECT NO. 16	DEFECT NO. 17	DEFECT NO. 18	DEFECT NO. 19	DEFECT NO. 20	DEFECT NO. 21	DEFECT NO. 22	DEFECT NO. 23	DEFECT NO. 24	DEFECT NO. 25	DEFECT NO. 26	DEFECT NO. 27	DEFECT NO. 28	DEFECT NO. 29	DEFECT NO. 30	DEFECT NO. 31	DEFECT NO. 32	DEFECT NO. 33	DEFECT NO. 34	DEFECT NO. 35	DEFECT NO. 36	DEFECT NO. 37	DEFECT NO. 38	DEFECT NO. 39	DEFECT NO. 40	DEFECT NO. 41	DEFECT NO. 42	DEFECT NO. 43	DEFECT NO. 44	DEFECT NO. 45	DEFECT NO. 46	DEFECT NO. 47	DEFECT NO. 48	DEFECT NO. 49	DEFECT NO. 50	DEFECT NO. 51	DEFECT NO. 52	DEFECT NO. 53	DEFECT NO. 54	DEFECT NO. 55	DEFECT NO. 56	DEFECT NO. 57	DEFECT NO. 58	DEFECT NO. 59	DEFECT NO. 60	DEFECT NO. 61	DEFECT NO. 62	DEFECT NO. 63	DEFECT NO. 64	DEFECT NO. 65	DEFECT NO. 66	DEFECT NO. 67	DEFECT NO. 68	DEFECT NO. 69	DEFECT NO. 70	DEFECT NO. 71	DEFECT NO. 72	DEFECT NO. 73	DEFECT NO. 74	DEFECT NO. 75	DEFECT NO. 76	DEFECT NO. 77	DEFECT NO. 78	DEFECT NO. 79	DEFECT NO. 80	DEFECT NO. 81	DEFECT NO. 82	DEFECT NO. 83	DEFECT NO. 84	DEFECT NO. 85	DEFECT NO. 86	DEFECT NO. 87	DEFECT NO. 88	DEFECT NO. 89	DEFECT NO. 90	DEFECT NO. 91	DEFECT NO. 92	DEFECT NO. 93	DEFECT NO. 94	DEFECT NO. 95	DEFECT NO. 96	DEFECT NO. 97	DEFECT NO. 98	DEFECT NO. 99	DEFECT NO. 100	DEFECT NO. 101	DEFECT NO. 102	DEFECT NO. 103	DEFECT NO. 104	DEFECT NO. 105	DEFECT NO. 106	DEFECT NO. 107	DEFECT NO. 108	DEFECT NO. 109	DEFECT NO. 110	DEFECT NO. 111	DEFECT NO. 112	DEFECT NO. 113	DEFECT NO. 114	DEFECT NO. 115	DEFECT NO. 116	DEFECT NO. 117	DEFECT NO. 118	DEFECT NO. 119	DEFECT NO. 120	DEFECT NO. 121	DEFECT NO. 122	DEFECT NO. 123	DEFECT NO. 124	DEFECT NO. 125	DEFECT NO. 126	DEFECT NO. 127	DEFECT NO. 128	DEFECT NO. 129	DEFECT NO. 130	DEFECT NO. 131	DEFECT NO. 132	DEFECT NO. 133	DEFECT NO. 134	DEFECT NO. 135	DEFECT NO. 136	DEFECT NO. 137	DEFECT NO. 138	DEFECT NO. 139	DEFECT NO. 140	DEFECT NO. 141	DEFECT NO. 142	DEFECT NO. 143	DEFECT NO. 144	DEFECT NO. 145	DEFECT NO. 146	DEFECT NO. 147	DEFECT NO. 148	DEFECT NO. 149	DEFECT NO. 150	DEFECT NO. 151	DEFECT NO. 152	DEFECT NO. 153	DEFECT NO. 154	DEFECT NO. 155	DEFECT NO. 156	DEFECT NO. 157	DEFECT NO. 158	DEFECT NO. 159	DEFECT NO. 160	DEFECT NO. 161	DEFECT NO. 162	DEFECT NO. 163	DEFECT NO. 164	DEFECT NO. 165	DEFECT NO. 166	DEFECT NO. 167	DEFECT NO. 168	DEFECT NO. 169	DEFECT NO. 170	DEFECT NO. 171	DEFECT NO. 172	DEFECT NO. 173	DEFECT NO. 174	DEFECT NO. 175	DEFECT NO. 176	DEFECT NO. 177	DEFECT NO. 178	DEFECT NO. 179	DEFECT NO. 180	DEFECT NO. 181	DEFECT NO. 182	DEFECT NO. 183	DEFECT NO. 184	DEFECT NO. 185	DEFECT NO. 186	DEFECT NO. 187	DEFECT NO. 188	DEFECT NO. 189	DEFECT NO. 190	DEFECT NO. 191	DEFECT NO. 192	DEFECT NO. 193	DEFECT NO. 194	DEFECT NO. 195	DEFECT NO. 196	DEFECT NO. 197	DEFECT NO. 198	DEFECT NO. 199	DEFECT NO. 200	DEFECT NO. 201	DEFECT NO. 202	DEFECT NO. 203	DEFECT NO. 204	DEFECT NO. 205	DEFECT NO. 206	DEFECT NO. 207	DEFECT NO. 208	DEFECT NO. 209	DEFECT NO. 210	DEFECT NO. 211	DEFECT NO. 212	DEFECT NO. 213	DEFECT NO. 214	DEFECT NO. 215	DEFECT NO. 216	DEFECT NO. 217	DEFECT NO. 218	DEFECT NO. 219	DEFECT NO. 220	DEFECT NO. 221	DEFECT NO. 222	DEFECT NO. 223	DEFECT NO. 224	DEFECT NO. 225	DEFECT NO. 226	DEFECT NO. 227	DEFECT NO. 228	DEFECT NO. 229	DEFECT NO. 230	DEFECT NO. 231	DEFECT NO. 232	DEFECT NO. 233	DEFECT NO. 234	DEFECT NO. 235	DEFECT NO. 236	DEFECT NO. 237	DEFECT NO. 238	DEFECT NO. 239	DEFECT NO. 240	DEFECT NO. 241	DEFECT NO. 242	DEF
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SHEET NO.	DATE	TIME	LAT.	LONG.	WIND	WAVE	SEA	VIS.	TEMP.	PRESS.	HUMID.	WIND DIR.	WAVE DIR.	SEA DIR.	WIND S.P.	WAVE S.P.	SEA S.P.	WIND FREQ.	WAVE FREQ.	SEA FREQ.	WIND PERIOD	WAVE PERIOD	SEA PERIOD	WIND DIRECTION	WAVE DIRECTION	SEA DIRECTION	WIND VELOCITY	WAVE VELOCITY	SEA VELOCITY	WIND FORCE	WAVE FORCE	SEA FORCE	WIND STATE	WAVE STATE	SEA STATE	WIND EFFECT	WAVE EFFECT	SEA EFFECT	WIND REMARKS	WAVE REMARKS	SEA REMARKS	WIND OBSERVER	WAVE OBSERVER	SEA OBSERVER	WIND INSTRUMENT	WAVE INSTRUMENT	SEA INSTRUMENT	WIND CORRECTION	WAVE CORRECTION	SEA CORRECTION	WIND SCALE	WAVE SCALE	SEA SCALE	WIND UNIT	WAVE UNIT	SEA UNIT	WIND TYPE	WAVE TYPE	SEA TYPE	WIND CLASS	WAVE CLASS	SEA CLASS	WIND GRADE	WAVE GRADE	SEA GRADE	WIND ORDER	WAVE ORDER	SEA ORDER	WIND NO.	WAVE NO.	SEA NO.	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