

REMINGTON ARMS COMPANY, INC.

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RESEARCH TEST and MEASUREMENT REPORT - Report No. 822641

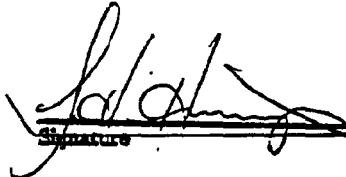
M/700 ADL 30-06 RESTYLE 1983 VERSION TRIAL & PILOT EVALUATION

Prepared by: J. Baggetta

Date Prepared: 10-25-82

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 12-29-82
Signature Date

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 12/29/82
Signature Date

TEST & MEASUREMENT LAB REPORT

REPORT NUMBER: 822641
REPORT TITLE: M/700 ADL 30-06 RESTYLE 1983 VERSION TRIAL & PILOT
EVALUATION
MODEL(S):
GAUGE OR CALIBER: 700 ADL
DATE: 30-06
WORK ORDER NO.: 81362 - 904
PART NAME: 700 ADL 30-06 Restyle
DESIGNER/ENGINEER: P. Nasypany

TEST TYPE:

1. PHOTO LAB
2. STRENGTH TEST - NO. OF GUNS TESTED _____
3. FUNCTION TEST - NO. OF GUNS TESTED 8
4. ACCURACY TEST - NO. OF GUNS TESTED 8
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: _____

AMMO TYPE: MAGS. _____; TARGET: _____

RIM FIRE _____ CENTER FIRE _____

October 25, 1982
December

TO: J. H. Hennings

FROM: J. Baggetta

REPORT TITLE: M/700 ADL 30-06 RESTYLE 1983 VERSION TRIAL & PILOT
EVALUATION

ABSTRACT

On August 21, 1982, a work request was received from P. Nasypany, Current Products Design to conduct a Research Trial & Pilot Test on the first run of production Trial & Pilot M/700 ADL Restyle, 1983 version guns.

SCOPE OF TEST

To evaluate the overall functional performance and accuracy of the M/700 30-06 ADL Restyle Trial & Pilot.

TEST RESULTS

A. Field Cycle

There were three (3) stem chamber right out of 2040 rounds fired. The overall malfunction rate was 0.12%.

B. Accuracy

Five of the eight M/700 30-06 ADL Restyle rifles shot with the gallery accuracy device did not meet Remington standards which is 3.5" center to center. Four of these five were then shot from the shoulder and all four met the Remington Standard.

REPORT TEXT**Field Function**

Eight M/700 30-06 ADL Restyle rifles were fired a total of 2040 rounds (255 rounds each) with a total of three malfunctions occurring. The following rifles all experienced one malfunction each. (Stem chamber right.)

1. B6407981 - Remington 125 gr. Pointed Soft Point.
2. B6408412 - Remington 180 gr. Soft Point.
3. B6407794 - Winchester 180 gr. Soft Point.

Accuracy

Five of the eight M/700 30-06 ADL Restyle rifles that were fired using the accuracy device did not meet Remington standards which is 3.5" center to center. They are:

1. B6407263
2. B6407794
3. B6408412
4. B6408155
5. B6407475

Four M/700 30-06 ADL Restyle were then selected to be fired from the shoulder at R & D 100 yd. range. All four rifles met Remington Standards which is 3.5" center to center.

TEST PROCEDURE**A. Measurements**

- 1.) See Appendix "A" Data Sheet No. 1 for detailed information pertaining to measurements.

B. Field Function Test

Eight (8) M/700 30-06 ADL Restyle rifles were taken to Ilion Fish and Game Club 100 yard range. The weather was cool and overcast. The rifles were cooled every 15 rounds. (Able to hold barrel in hand.) Four men were used to fire the rifles, incorporating the round robin system. The three brands of ammunition were used. Refer to Data Sheet/Appendix "A" Data Sheet No. 2 for breakdown of bullet weight used per caliber. Each man took 15 rounds of each bullet weight per ammo type and fired 5 rounds at a time, using the feed rate (5 rounds slow, 5 rounds medium, 5 rounds fast speed).

The rifles used in Field Test M/700 ADL 30-06 are listed below:

B6408648	B6408155
B6407981	B6408412
B6407773	B6407794
B6407475	B6407263

C. Accuracy Test

1. The accuracy test was conducted in the 100 yard range using the gallery accuracy device.

- a.) Five shot groups
- b.) Remington 180 gr. S.P.
- c.) Measurements taken (See Appendix A, Sheet No. 3)
- d.) Shots measured from center to center

The rifles used in Accuracy Test M/700 ADL 30-06 are listed below:

B6407263	B6408648
B6407794	B6407981
B6408412	B6407773
B6408155	B6407475

2. Four M/700 ADL 30-06 were selected to be fired from the shoulder at the R & D 100 yard range with scope (Lyman - All American 20-X-Dot.).

- a.) Two five shot groups
- b.) Remington 180 gr. SP (Lot No. ES171 R & D)
- c.) Remington 180 gr. SP (Lot No. S20B Gallery)
- d.) Measurements taken (See Appendix A Sheet No. 4 for more details)
- e.) Shots measured from center to center.

The rifles used in this accuracy test M/700 ADL 30-06 are listed below:

B6408155	B6407263
B6408412	B6407773

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

Data Sheets

oct 25, 1982
M-700 ADL Restyle -
Measurements
J. Baggett

GUN No.	Headspace	S&W ON	S&W OFF	Firing Pin Incident	Trigger Pull	Gun Length	Gun Weight	Center of Gravity	Lock Time
*B6408248	ED04 + .004	757	727	0036	4.00	42.5"	211.50002	11.4" R	34.0MS
*B6407781	ED04 + .004	848	800	0038	4.00	42.5"	211.50002	11.5" R	34.4MS
*B6407773	ED04 + .004	850	810	0035	4.00	42.5"	211.50002	11.6" R	
*B6407475	ED04 + .004	818	750	0038	4.00	42.5"	211.50002	11.6" R	
*B6408165	ED04 + .004	776	800	0036	3.85	42.5"	211.50002	11.7" R	
*B6408712	ED04 + .004	800	850	0035	4.25	42.5"	211.50002	11.7" R	34.0MS
*B6407774	ED04 + .003	800	812	0033	4.00	42.5"	211.50002	11.7" R	
*B6407263	ED04 + .003	743	702	0031	4.00	42.5"	211.50002	11.9" R	33.0MS

DATA sheet #2

Remington 30-06

125-PSR

150-PSR

150-BP

165-PSR

180-SR

180-PSR

220-SR

Federal

30-06

150-SR

180-SR

125-SR

165-SR Prem

200-SR

Winchester

30-06

110-PSR

125-PSR

150-SR

180-SR

220-SR

DATA Sheet #3

Gallery Accuracy Devise (Group size Average of three)

1. B 6407263 - 3.58"
2. B 6407794 - 3.62"
3. B 6408412 - 4.15"
4. B 6408155 - 4.32"
5. B 6408648 - 3.05"
6. B 6407981 - 3.32"
7. B 6407773 - 2.58"
8. B 6407475 - 3.60"

DATA Sheet # 4

GUN No.	Remington 180gr SP	Remington 180gr SP
700 ADL30-06	Lot ES 171 Group Size Average	Lot S20B Group Size Average

B 6408155	1.40 "
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2.46 "

3 6407263	1.73 "
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1.96 "

3 6408412	2.32 "
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2.48 "

3 6407773	2.20 "
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1.91 "

40 XB	To Confirm Ammunition
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047631-R	1.30 "
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1.28 "
