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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

Proofread and Cleared By:

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Foreman-Test Lab / Foreman-Measurement Lab

*[Signature]* 12-29-82  
Signature Date

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*[Signature]* 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.

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REPORT TEXTField 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.

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**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

**" APPENDIX " A "**

**Data Sheets**

100-443880

oct 25, 1982

M-700 ADL Restyle -

Measurements

J. Baggett

GUN No.	Headspace	SAFE ON	SAFE OFF	Firing Pin Incident	Trigger Pull	GUN Length	GUN Weight	Center of Gravity	Lock Time
# B6408648	E00+mm	057	071	071	071	42.5"	215.116oz	14.9R	340ms
# B6407781	E00+mm	068	008	008	008	42.4"	214.170oz	12.1R	345ms
# B6407773	E00+mm	084	013	005	057	42.5"	215.502oz	11.0R	
# B6407475	E00+mm	018	057	080	008	42.4"	215.190oz	11.0R	
# B6407978	E00+mm	072	008	008	088	42.4"	215.002oz	11.0R	
# B6408472	E00+mm	007	055	008	057	42.4"	214.710oz	11.1R	340ms
# B6407774	E00+mm	008	012	008	057	42.4"	215.100oz	11.0R	
# B6407263	E00+mm	082	007	008	007	42.5"	215.550oz	11.3R	330ms

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 Device (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

N 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 "	2.46 "
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B 6407263	1.73 "	1.96 "
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B 6408412	2.32 "	2.48 "
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B 6407773	2.20 "	1.91 "
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40 XB	To Confirm Ammunition	
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047631-R	1.30 "	1.28 "
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