

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE



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"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" \_\_\_\_\_

Ilion, New York  
November 26, 1973

TO: C. B. WORKMAN *CBW*  
FROM: A. A. HUGICK  
DATE: NOVEMBER 21, 1973  
SUBJECT: M/700 - 270 CAL. ADL  
DESIGN CONFORMATION TESTING  
TEST PERIOD: NOV. 15, 1973 - NOV. 21, 1973  
WORK ORDER: 88809

INTRODUCTION:

Eight (8) M/700 - 270 Caliber ADL rifles were selected from the pilot production sample lot for design conformation testing by Research. The major improvements are the Bolt Anti-Blind System and Cast Magazine Follower.

TEST OBJECTIVE:

Conduct design conformation testing of the improved ADL M/700 rifles.

TEST OBSERVATIONS:

- (1) Test gun #4 has a magazine box capacity of only three (3) rounds.
- (2) Test gun #2 magazine is critical for placement of the rounds in the box. If not placed back and loaded with care the bolt will not close over four (4) in the box.
- (3) Bolt stroke operation is satisfactory.
- (4) The press checkering quality does not compare with the cut checkering quality of the BDL grade rifles.

M/700 - 270 Cal. ADL  
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RECOMMENDATIONS:

The M/700 ADL grade rifle magazine capacity be reviewed based on finding of this test.

The M/700 ADL be considered satisfactory.

AAH:bd AA\*  
Measurement/Test Lab  
Ilion Research Division  
Attach.

| TEST FUNCTION                | ONE       | TWO     | THREE   | FOUR    | FIVE    | SIX     | SEVEN   | EIGHT   | SPECS.        |
|------------------------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------------|
| SERIAL NUMBER                | 6688212   | 6686683 | 6686664 | 6686640 | 6688486 | 6688563 | 6688844 | 6687402 | —             |
| HEADSPACE - MIN. (AS REC'D)  | 1.003 IN  | 1.005   | 1.002   | 1.005   | 1.002   | 1.001   | 1.001   | 1.003   | .009 / .005   |
| TRIGGER Pull                 | 5.50 LBS  | 5.75    | 4.50    | 4.50    | 4.25    | 5.00    | 5.00    | 5.00    | 3.00 / 5.00   |
| FIRING Pin INCHES            | .0235     | .0230   | .0225   | .0240   | .0240   | .0225   | .0225   | .0235   | .0180 / .0260 |
| SWITCH, LE-DE.               | 7LB-408   | 7-5     | 7-0     | 7-3     | 7-4     | 6-15    | 7-3     | 7.6     | 7.5' AVE      |
| SW LENGTH - IN               | 42 1/2 IN | 42 1/2  | 42 1/2  | 42 1/2  | 42 1/2  | 42 1/2  | 42 1/2  | 42 1/2  |               |
| HORE, P.O.I., AS REC'D       | —         | 0.52    | —       | 6.0 L   | —       | 2.0 R   | —       | 4.0 L   |               |
| VERT. P.O.I., AS REC'D       | —         | 6.0 L   | —       | 12.0 L  | —       | 7.0 L   | —       | 9.5 L   |               |
| FORE. ROT. MAX.              | —         | 18.0 H  | —       | 18.0 H  | —       | 19.0 H  | —       | 19.0 H  |               |
| FORE. ROT. MIN               | —         | 10.0 L  | —       | 12.0 L  | —       | 7.0 L   | —       | 9.5 L   |               |
| GROUP SIZE 3X35 M01 (50 YDS) | —         | 1.66 IN | —       | 1.78    | —       | 1.32    | —       | 1.66    | 3.5 max.      |
| FORE. GROUP SIZE             | —         | 1.52    | —       | 1.30    | —       | 0.98    | —       | 1.17    |               |
| VERT. GROUP SIZE             | —         | 1.00    | —       | 1.38    | —       | 1.10    | —       | 1.17    |               |
|                              |           |         |         |         |         |         |         |         |               |
|                              |           |         |         |         |         |         |         |         |               |
|                              |           |         |         |         |         |         |         |         |               |

| TEST FUNCTION            | ONE     | TWO     | THREE   | FOUR     | FIVE | SIX | SEVEN | EIGHT | SPECS.  |
|--------------------------|---------|---------|---------|----------|------|-----|-------|-------|---------|
| STOCK DIMEN.             |         |         |         |          |      |     |       |       |         |
| PITCH                    | 3.      | 3/8     | 3/8     | 3/8      |      |     |       |       | 2 7/8   |
| DULL                     | 13 5/16 | 13 1/16 | 13 1/16 | 13 1/16  |      |     |       |       | 13 1/16 |
| DROP AT HEEL             | 1 5/16  | 1 1/16  | 1 1/16  | 1 1/16   |      |     |       |       | 1 5/16  |
| DROP AT COMB.            | 10/16   | 10/16   | 12/16   | 10/16    |      |     |       |       | 11/16   |
| RIGGER-TO-GRIP           | 3 1/4   | 3 1/4   | 3 1/4   | 3 1/4    |      |     |       |       | 3 3/8   |
| RIGGER-TO-COMB.          | 4 1/16  | 4 1/16  | 4 1/16  | 4 1/16   |      |     |       |       | —       |
| ACK TEST FUNCTION - RPS. | 70      | 70      | 70      | 70       | 70   | 70  | 70    | 70    | —       |
| MAJFUNCTIONS.            | 0       | 0       | 0       | 0        | 0    | 0   | 0     | 0     | —       |
| MAGAZINE CAPACITY        | 4       | 4       | 4       | <u>3</u> | 4    | 4   | 4     | 4     |         |
| TOTAL ENDUR.             | —       | —       | 250     | —        | 250  | —   | 250   | —     |         |
| MODD MAL FUNC.           | —       | —       | 0       | —        | 0    | —   | 0     | —     |         |
|                          |         |         |         |          |      |     |       |       |         |
|                          |         |         |         |          |      |     |       |       |         |
|                          |         |         |         |          |      |     |       |       |         |