

## REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington  
SUPERPETERS  
SUPER

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

Ilion, New York  
November 8, 1976

TO: A. A. HUGICK

FROM: C. J. MILLER

SUBJECT: MODEL 700 ACCURACY TEST

DATE: JANUARY 8, 1975

INTRODUCTION:

The purpose of this Model 700 Accuracy Test was to ascertain the affect of the misshaped land ends, at the muzzle.

PROCEDURE:

Five Model 700 30-06 rifles were obtained from the warehouse, then cleaned and scope mounts put on. Each gun was shot using 24X Remington scope, on the R&D 100 yard range. The ammunition used was Remington's 30-06 Sprg. 180 Gr. Soft Point Core Lokt, code LB03PD.

Five, five shot groups were recorded for each gun. The five guns were then disassembled, 1/8 inch cut off the muzzle, recrowned, reassembled, and cleaned. Again five, five shot groups were recorded for each gun using the same scope and the same ammunition.

|            |      | <u>GROUP SIZE</u> |              | <u>HORIZONTAL</u> |              | <u>VERTICAL</u> |              |
|------------|------|-------------------|--------------|-------------------|--------------|-----------------|--------------|
|            |      | <u>Before</u>     | <u>After</u> | <u>Before</u>     | <u>After</u> | <u>Before</u>   | <u>After</u> |
| Gun 1      | Avg. | 2.19              | 2.08         | 1.93              | 1.69         | 1.34            | 1.68         |
| Gun 2      | Avg. | 2.24              | 1.97         | 1.57              | 1.63         | 1.76            | 1.53         |
| Gun 3      | Avg. | 2.50              | 1.99         | 1.68              | 1.30         | 2.24            | 1.58         |
| Gun 4      | Avg. | 1.93              | 2.22         | 1.37              | 1.56         | 1.63            | 1.53         |
| Gun 5      | Avg. | 1.78              | 1.65         | 1.62              | 1.16         | 1.50            | 1.36         |
| Avg. 1 - 5 |      | 2.128             | 1.982        | 1.634             | 1.468        | 1.694           | 1.536        |

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BEFORE

|        |          | <u>GROUP</u> | <u>HORIZONTAL</u> | <u>VERTICAL</u> |
|--------|----------|--------------|-------------------|-----------------|
| GUN #1 | 1        | 2.40         | 2.40              | 1.05            |
| C.J.M. | 2        | 2.30         | 1.40              | 2.25            |
|        | 3        | 1.50         | 1.20              | 1.05            |
|        | 4        | 2.30         | 2.30              | 0.90            |
|        | <u>5</u> | <u>2.45</u>  | <u>2.35</u>       | <u>1.45</u>     |
|        | Avg.     | 2.19         | 1.93              | 1.34            |
| GUN #2 | 1        | 2.55         | 1.30              | 2.50            |
| J. H.  | 2        | 2.35         | 0.65              | 3.35            |
|        | 3        | 2.04         | 1.70              | 1.35            |
|        | 4        | 2.25         | 2.20              | 0.95            |
|        | <u>5</u> | <u>2.00</u>  | <u>2.00</u>       | <u>0.65</u>     |
|        | Avg.     | 2.24         | 1.57              | 1.76            |
| GUN #3 | 1        | 2.40         | 1.45              | 2.20            |
| C.J.M. | 2        | 1.90         | 1.40              | 1.90            |
|        | 3        | 3.25         | 2.30              | 2.40            |
|        | 4        | 3.20         | 2.90              | 2.95            |
|        | <u>5</u> | <u>1.75</u>  | <u>0.35</u>       | <u>1.75</u>     |
|        | Avg.     | 2.50         | 1.68              | 2.24            |
| GUN #4 | 1        | 1.70         | 1.25              | 1.70            |
| C.J.M. | 2        | 1.55         | 0.90              | 1.50            |
|        | 3        | 2.40         | 1.55              | 2.40            |
|        | 4        | 1.05         | 0.80              | 0.95            |
|        | <u>5</u> | <u>2.95</u>  | <u>2.35</u>       | <u>1.80</u>     |
|        | Avg.     | 1.93         | 1.37              | 1.63            |
| GUN #5 | 1        | 1.60         | 1.45              | 1.20            |
| C.J.M. | 2        | 1.45         | 1.80              | 1.65            |
|        | 3        | 2.20         | 2.20              | 1.10            |
|        | 4        | 1.95         | 1.30              | 1.90            |
|        | <u>5</u> | <u>1.70</u>  | <u>1.35</u>       | <u>1.65</u>     |
|        | Avg.     | 1.78         | 1.62              | 1.50            |

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AFTER

|            |          | <u>GROUP</u> | <u>HORIZONTAL</u> | <u>VERTICAL</u> |
|------------|----------|--------------|-------------------|-----------------|
| GUN #1     | 1        | 2.10         | 2.00              | 1.40            |
| C.J.M.     | 2        | 2.30         | 1.20              | 2.00            |
|            | 3        | 2.20         | 2.15              | 1.55            |
|            | 4        | 1.90         | 1.25              | 1.80            |
|            | <u>5</u> | <u>1.90</u>  | <u>1.85</u>       | <u>1.65</u>     |
|            | Avg.     | 2.08         | 1.69              | 1.68            |
| <br>GUN #2 | 1        | 1.85         | 1.70              | 0.90            |
| J. H.      | 2        | 1.95         | 1.85              | 1.60            |
|            | 3        | 1.50         | 1.10              | 1.45            |
|            | 4        | 2.30         | 1.30              | 2.00            |
|            | <u>5</u> | <u>2.25</u>  | <u>2.20</u>       | <u>1.70</u>     |
|            | Avg.     | 1.97         | 1.63              | 1.53            |
| <br>GUN #3 | 1        | 1.55         | 1.40              | 1.10            |
| C.J.M.     | 2        | 2.20         | 2.05              | 1.00            |
|            | 3        | 1.30         | 1.10              | 1.10            |
|            | 4        | 2.40         | 0.65              | 2.40            |
|            | <u>5</u> | <u>2.50</u>  | <u>1.30</u>       | <u>2.30</u>     |
|            | Avg.     | 1.99         | 1.30              | 1.58            |
| <br>GUN #4 | 1        | 2.50         | 2.15              | 1.00            |
| C.J.M.     | 2        | 2.85         | 1.00              | 2.75            |
|            | 3        | 2.55         | 2.15              | 1.75            |
|            | 4        | 1.40         | 0.90              | 1.30            |
|            | <u>5</u> | <u>1.80</u>  | <u>1.60</u>       | <u>0.85</u>     |
|            | Avg.     | 2.22         | 1.56              | 1.53            |
| <br>GUN #5 | 1        | 2.25         | 1.00              | 1.90            |
| C.J.M.     | 2        | 1.05         | 1.00              | 0.80            |
|            | 3        | 1.40         | 1.25              | 1.00            |
|            | 4        | 2.30         | 1.60              | 1.90            |
|            | <u>5</u> | <u>1.25</u>  | <u>0.95</u>       | <u>1.20</u>     |
|            | Avg.     | 1.65         | 1.16              | 1.36            |

CJM:bd  
Ilion Research Divison  
Measurement/Test Lab