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REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE



"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" _____

Ilion, New York
March 3, 1981

TO: J. H. HENNINGS *JH*FROM: J. BAGGETTA *J B* ←SUBJECT: M/700 BROACHED RECEIVERS vs NONBROACHED RECEIVERS
-----INTRODUCTION:

The Research Test Lab was requested by Process Engineering to evaluate twenty (20) M/700 rifles for functional performance. Fifteen (15) of the rifles had broached receivers and were comprised of ten (10) 223 cal. and five (5) 243 cal. (Control Group). The remaining five (5) rifles had no broaching operation performed on them and they were comprised of 243 cal. only.

TEST OBJECTIVE:

To determine if the broaching process performed on the receivers affect or eliminates the high volume of empty shell catches receiver malfunctions experienced in the plant gallery.

TEST OBSERVATION:

At the completion of live fire function testing only one (1) malfunction was experienced on a control rifle (nonbroached receivers). The malfunction was a fail to extract. The broached receivers did not experience any functional problems during live fire testing.

TEST RESULTS:

Individual gun results: Jack shooting - 400 total rounds.

MODEL 700 223 cal. BROACHED RECEIVERS

<u>GUN NO.</u>	<u>RDS. FIRED</u>	<u>MALF. RATE</u>
1. B6270692	20	0 %
2. B6270704	20	0 %
3. B6270723	20	0 %
4. B6270689	20	0 %
5. B6270717	20	0 %
6. B6270711	20	0 %
7. B6270688	20	0 %
8. B6270691	20	0 %
9. B6270682	20	0 %
10. B6270715	20	0 %

To: J.H. Hennings
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MODEL 700 243 cal. BROACHED RECEIVERS

<u>GUN NO.</u>	<u>RDS. FIRED</u>	<u>MALF. RATE</u>
B6270663	20	0 %
B6270650	20	0 %
B6270675	20	0 %
B6270643	20	0 %
B6270641	20	0 %

MODEL 700 243 cal. NONBROACHED RECEIVERS

<u>GUN NO.</u>	<u>RDS. FIRED</u>	<u>MALF. RATE</u>
B6266588	20	0 %
B6257941	20	0 %
B6253261	20	0.35 %
B6257926	20	0 %
B6266955	20	0 %

PROCEDURE:

1. Clean bore and chamber before start of test.
2. Preliminary measurements completed on all twenty (20) rifles prior to start of test.
3. Cleaned chamber every twenty (20) rounds.
4. Firing procedure: Jack shooting
 - (a) Slow - Feed Speed
 - (b) Medium - Feed Speed
 - (c) Fast - Feed Speed
 - (d) Alternating - Feed Speed
5. Jack shooting - fired twenty (20) rounds thru twenty (20) rifles using Remington 243 cal. and Remington 223 cal. ammunition.
6. At conclusion of test cleaned bore and chamber.

FUTURE WORK:

Test will be conducted on all other calibers listed for the M/700 rifle when samples become available.

JBaggetta:sse
Attach.