

REMINGTON ARMS COMPANY, INC.

INTERDEPARTMENTAL CORRESPONDENCE

Remington
CHAMBERLAINPETERS
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File

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" _____

December 1, 1980

TO: J. H. Hennings *01 12-3-80*FROM: A. J. Long *12-3-80*SUBJECT: M/700 Safety Lever with View Hole
M/700 Sears - New Chrome Plate Process

Date Started: 9-29-80

Date Finished: 10-7-80

Work Order: C-1803

Introduction:

Received from Design five (5) M/700 Fire Controls for dry cycle. These samples have a new view hole in the safety lever and also chrome plated sears.

Test Objective:

~~To evaluate the new chrome plating process on the sears for cracking or peeling.~~ Test to include the evaluation of the new chrome plating process on the sears for cracking or peeling.

Test Observation:

All samples were tested a total of 20,000 cycles each without any breakages or wearing of chrome occurring.

Test Procedure:

All samples were run in a M/700 safe on/off dry cycle machine with a cycle rate of one every second.

M/700 Safety Lever with View Hole
M/700 Sear - New Chrome Plate Process

December 1, 1980
page 2

Test Procedure (continued)

Inspection cycle and measurements were taken every 2,500 cycles.

Sample	Sear Lift with Safe On	Sear Lift Fwd. Null	Safe On	Safe Off	Trigger Pull
1 - 0 Cycles	.011	.0055	7.15	8.40	6.45
20,000 Cycles	.0105	.006	5.05	5.05	6.10
2 - 0 Cycles	.008	.0035	6.70	6.00	5.90
20,000 Cycles	.0075	.002	4.05	3.75	6.35
3 - 0 Cycles	.009	.0045	8.90	6.90	5.90
20,000 Cycles	.0095	.0045	5.55	6.35	6.30
4 - 0 Cycles	.008	.003	7.10	8.85	5.35
20,000 Cycles	.0075	.003	3.60	3.70	5.45
5 - 0 Cycles	.008	.0035	5.55	6.30	6.05
20,000 Cycles	.008	.003	5.50	4.75	5.75

Future Work:

Additional testing should be conducted on Pilot Lot if accepted.

AJL:ws