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file

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE



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December 1, 1980

TO: J. H. Hennings *JH 12-3-80*  
FROM: A. J. Long *ALJ 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 if the view hole on the safety lever does weaken the part. 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

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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