

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE



cc: W.E. Leek
A. A. Hugick
M.H. Walker
C. B. Workman

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY"

Ilion, New York
August 19, 1974

TO: W. R. GOOGIN
FROM: J. H. HENNINGS
SUBJECT: M/700 - 30-06 Cal. Quality Audit Test

Test Period: 4-22-74 to 5-14-74
Work Orders: 88800 and G 0460

Introduction:

A sample of eight rifles was withdrawn from the warehouse, four ADL and four BDL models. The 1974 version of the M/700 has the following new features:

- a. Anti-bind bolt
- b. Stainless steel magazine follower
- c. New design stock
- d. New checkering pattern and 20 lines to the inch cut line checkering.

Test Objective:

To evaluate the changes to the M/700 rifle and review the overall quality of the rifle.

Test Observations:A. Visual Inspection:

1. Noticeable misalignment of checkering pattern on fore ends of four rifles. John Brooks pointed out that margin error was most likely caused by over-sanding one side of fore end.

B. Measurements:

1. Headspace - All eight rifles within Rem. standards
2. Firing Pin Indent - All eight rifles within Rem. standards
3. Trigger Pull - Two rifles over Rem. standards, 3# to 5#.
4. Gun Weight - Avg. of 8 rifles - 6.8#. Rem. stds. - 7#.

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C. Accuracy:

1. Accuracy test conducted in gallery device using gallery ammunition. Five rifles failed to pass Rem. standards of 3.50" max. group. The 180 gr. PSP ammunition used was tested and proved to be reasonably accurate. Guns #5 and 7 were rebedded and tested. There was an improvement of 38 to 55% in accuracy but Gun #5 still is out of specs. The bores of all rifles were inspected and excessive metal fouling and the lands are swaged to groove diameter at muzzle only.

D Function Test - Field:

1. 100 rounds of various manufacture and bullet weight were fired through each rifle at the Ilion Rifle Range with no malfunctions.

Test Procedure:

A. Visual Inspection:

1. Stock
 - a. Finish
 - b. Checkering
 - c. Workmanship
2. Barrel and Bolt
3. Fire Control
4. Packaging

-B. Measurements:

1. Headspace - graduated plugs
2. Firing Pin Indent - copper crusher - avg. of 5 samples
3. Trigger Pull - avg. of 5 samples
4. Gun Weight - taken on Trainor scales.

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C. Accuracy:

1. Initial - Gallery device and ammunition - Peters 180 gr. PSP - L2244D.
 Three 5-shot groups per rifle measured center to center.
2. Retest - Gallery device and R&D ammunition - Rem. 220 gr. PSP -
 LW26CD.
 Three 5-shot groups per rifle measured center to center.
3. Ammunition Test - Rem. 40XB[#] 41453-B-Lyman 20X bench rest.
 Peters 180 gr. PSP L2244D.
 Five 5-shot groups measured center to center.
4. Bore Inspection - conducted by M.Walker and P. Gogol.
5. Bedding Check - conducted by J.Kast - Dept. 94.

D. Function Test - Field:

1. 10 rds. each of the following thru each rifle.
 Standing position - slow, medium and fast feed rate:

Rem. 220 gr. PSP	Win. 150 gr. SP
Win. 220 gr. PSP	Fed. 150 gr. SP
Rem. 180 gr. PSP	Rem. 125 gr. PSP
Fed. 180 gr. SP	Fed. 125 gr. SP
Rem. 150 gr. -PSP	Win. 110 gr. SP

JHH:T
 Attach.