

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE



cc: W.E. Leek  
J.S. Martin - J.C. Hutton  
File

*chem*

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY"

Ilion, New York  
July 19, 1973

TO: C.B. WORKMAN  
FROM: A.A. HUGICK  
DATE: JULY 13, 1973  
SUBJECT: MODEL 700 - 30/06 (SERIAL NO. 6630859)  
1000 ROUND PROOF EVALUATION TEST  
WORK ORDER: C-1404  
TEST PERIOD: JUNE 7, 1973 through JUNE 21, 1973

INTRODUCTION:

One Warehouse Model 700 - 30/06 Caliber Rifle was submitted to the Ilion Research Proof Test Technique. Min. proof specifications ammunition was fired in the first 25% of testing and max. proof specifications ammunition was fired in the balance of testing. Engineering and test data obtained is to be used for comparison with the new design center fire rifle.

TEST OBJECTIVE:

Evaluate the Model 700 - 30/06 bolt action rifle performance when submitted to the Ilion Research Proof Test Technique.

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TEST OBSERVATIONS:

1. Headspace increased from min. + .001 to min. + .004 in the first five hundred rounds of testing and remained constant throughout the balance of testing.
2. Magna-Flux of the barrel and locking system at each inspection cycle showed no areas of failure.
3. Checks for safety mechanism function at each inspection cycle proved to be satisfactory.
4. Check for primer marking and disconnect system for function do not apply to the bolt action rifle design.
5. This test rifle had out of specifications firing pin indent and the stock crack near end of test.

INSPECTION:

1. Headspace
2. Firing pin indent - trigger pull
3. Visual inspection
4. Check "safety" for function
5. Design area inspection (magna-flux barrel and locking system)

INSPECTION CYCLE:

- |    |      |                               |
|----|------|-------------------------------|
| 1. | 0    | Total fired proof test rounds |
| 2. | 50   |                               |
| 3. | 100  |                               |
| 4. | 250  |                               |
| 5. | 500  |                               |
| 6. | 750  |                               |
| 7. | 1000 | Total fired proof test rounds |

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CHECK "SAFETY" FOR FUNCTION:

1. With safe on -- gun closed on empty chamber -- pull trigger -- release trigger -- check for hammer fall (three trials)
2. With safe on -- gun closed on empty chamber -- pull trigger -- release trigger -- move safe to off position -- check for hammer fall (three trials)
3. With safe on -- bolt open -- hold trigger back -- let gun close on empty chamber -- release trigger -- check for hammer fall (three trials)

CHECK "DISCONNECT SYSTEM" FOR FUNCTION:

1. With safe off -- bolt open -- hold trigger back -- let gun close on empty chamber -- release trigger -- check for hammer fall (three trials)
2. Set adjustable headspace gage at min. + .100 -- place in chamber -- manually and slowly allow bolt to rest on headspace gage -- pull trigger -- check for hammer fall (three trials).

CHECK "PRIMER MARKING" ON CLOSING (CRUSHER):

Safe on -- allow bolt to close on copper crusher -- measure primer marking (three trials)

AAW

A.A. Hugick:sp  
Measurement/Test Lab  
Ilion Research Division  
Attach.