

REMINGTON ARMS COMPANY, INC.
Firearms Research Division

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TO: J.H. Hennings
FROM: F. Supry/J. Baggetta
REPORT TITLE: M/700 Simulated Cast Follower Evaluation

ABSTRACT

On 3-25-82 a request was received from D. Bullis to function test NC machined M/700 simulated cast followers. The following tests were performed:

- o Jack Function - Feeding and unloading live rounds, with rifle supported in a shooting jack.
- o Field Function - The actual firing of the rifles in an "in the field" situation.

Long, medium and short simulated cast followers were provided.

- o Long and short followers were buffed.
- o Medium followers were chrome plated (.0004" thick).

SCOPE OF TEST

To test the simulated cast followers in all M/700 calibers available, checking for follower related malfunctions.

TEST RESULTS

The test results indicate further work is needed before the simulated cast followers are ready for introduction in the M/700 rifles.

A brief synopsis is given for each phase of the test. Refer to the Report Text for detailed information.

TEST RESULTS - continued

Jack Function (Remington ammunition cycled at various speeds).

Long Followers - 30 samples were cycled a total of 1520 times.
21 follower related malfunctions occurred.

Controls - 10 controls were cycled a total of 712 times.
8 follower related malfunctions occurred.

Medium Followers - 24 samples were cycled a total of 1160 times.
11 follower related malfunction occurred.

Controls - 5 controls were cycled a total of 228 times.
No followers related malfunctions occurred.

Short Followers - 10 samples were cycled a total of 400 times.
13 follower related malfunctions occurred.

Controls - 2 controls were cycled a total of 80 times.
No follower related malfunctions occurred.

Field Function (Remington and competitive ammunition)

Long Followers - 30 samples were functioned a total of 2700 rounds.
47 follower related malfunctions occurred.

Controls - 18 controls were functioned a total of 1620 rounds.
10 follower related malfunctions occurred.

Medium Followers - 24 samples were functioned a total of 2385 rounds.
1 follower related malfunction occurred.

Controls - 15 controls were functioned a total of 1530 rounds.
3 follower related malfunctions occurred.

Short Followers - 10 samples were functioned a total of 1050 rounds.
32 follower related malfunctions occurred.

Controls - 6 samples were functioned a total of 630 rounds.
16 follower related malfunctions occurred.

REPORT TEXT

A. Jack Function

Long Follower — 21 follower related malfunctions occurred (Refer to Data Sheet No. 1).

Medium Followers — 11 follower related malfunctions occurred (Refer to Data Sheet No. 2).

Short Followers — 13 follower related malfunctions occurred (Refer to Data Sheet No. 3).

B. Field Function

Long Followers — 47 follower related malfunctions occurred (Refer to Data Sheet No. 1).

Medium Followers — 1 follower related malfunctions occurred (Refer to Data Sheet No. 2).

Short Followers — 32 follower related malfunctions occurred (Refer to Data Sheet No. 3).

TEST PROCEDURE

The simulated cast followers were assembled into corresponding M/700 actions. The M/700 actions used, except for the 30.06 caliber, were withdrawn from the warehouse January, 1982 and utilized in the M/700 no-bind follower evaluation.

30.06 caliber rifles withdrawn March, 1982

B6382440	B6382724
B6382788	B6382854
B6382804	B6346497
B6382417	B6382898
B6378452	B6382791

A. Jack Function (R&D Test Area)

A rifle was placed in a shooting jack, then loaded. Twenty rounds of every Remington bullet weight available were cycled through the rifle at slow, medium, fast and alternating speeds without firing the rifle. All feeding and/or follower related malfunctions were recorded. The procedure was repeated until all the simulated cast followers and control followers were tested.

B. Field Function (Lion Fish and Game Club)

Control rifles and rifles assembled with simulated cast followers of each caliber, were selected for a field function test. The field function test consisted of ten rounds of each Remington and competitive ammunition available per rifle.