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RESEARCH TEST AND MEASUREMENT REPORT

REPORT# 850981
APRIL 16, 1985

MODEL 700 CLASSIC   350 REM MAG   TRIAL AND PILOT RIFLES
ACCURACY AND FIELD FUNCTION

R2517079

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REPORT# 850981

WORK ORDER# G-0460-000
DATE: APRIL 16, 1985

TO: R.E. NIGHTINGALE

FROM: F.L. SUPRY

TITLE: ACCURACY AND FIELD FUNCTION: MODEL 700 CLASSIC   350 REM MAG

ABSTRACT:

On April 08, 1985 a request was received to conduct an Accuracy and Field Function evaluation of the Model 700 Classic 350 REM MAG caliber, Trial and Pilot rifles currently in the warehouse. Ten (10) rifles were randomly selected from the warehouse.

SCOPE OF TEST:

To determine if the production run samples meet the Remington Specifications set by the Research Design Section.

TEST RESULTS:

The ten (10) rifle Accuracy and Field Function were found to be acceptable. The following results were obtained:

A. ACCURACY:

a. Average group size = 2.53 inches center to center

B. FIELD FUNCTION:

a. Nine (9) of the ten (10) rifles experienced no malfunctions.
b. Rifle #B6680955 experienced two Don't Eject malfunctions.
c. The overall malfunction rate was 1.3%, based on 150 rounds fired.

COMMENTS:

A Visual Inspection of the Model 700 Classic 350 Rem Mag caliber rifle will be conducted, upon notification of a Trial and Pilot sample assembled with the fully pinned stock. Upon the successful completion of the Visual Inspection the Trial and Pilot Evaluation would be accepted.

TEST REPORT:

1. ACCURACY:

A. Three (3) rifles were tested for 100 yard accuracy and the following results were established:

	GROUP NUMBER			AVERAGE
	1	2	3	
Rifle# B6677683 -	1.92 in.	3.00 in.	2.64 in.	2.52 in.
Rifle# B6680592 -	2.44 in.	3.20 in.	1.50 in.	2.54 in.
Rifle# B6680596 -	2.80 in.	2.50 in.	1.84 in.	2.54 in.

2. Field Function:

A. The ten (10) rifles were subjected to a 15 round per rifle, Field Function Test and the following results were obtained:

a. Nine (9) of the ten (10) rifles experienced no malfunctions.

b. Rifle# B6680955 experience two uncoded ejection malfunctions. On the first and second ejecting round, of the fast cycle mode, the ejecting fired case spun around and landed back on top of the magazine.

TEST PROCEDURE:

1. ACCURACY

A. The following three (3) rifles were used in the 100 yard accuracy test:

    B6677683   B6680592   B6680596

B. The accuracy was shot by J. Selan, Research - Test Lab, at the R & D 200 yard range.

C. Weaver mounts and rings were used in conjunction with a Lyman All American 20X 1/8 inch dot scope.

D. Remington ammunition, index R350M1; code A08L5901, 200 grain pointed soft point, was used for the 100 yard accuracy test.

E. Before shooting the 100 yard accuracy test, the bores on each rifle were brushed with Hoppe's No. 9 solvent and patched dry.

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TEST PROCEDURE: (continued)

    1. ACCURACY (continued)

        F. A total of three (3), five (5) shot groups were shot with each
           rifle. The rifles were cooled between each group, and one (1)
           "warmer" shot was fired before the next group was shot.

        G. The patterns were analyzed for group size, and averages were
           calculated for each rifle.

        H. Prior to the 100 yard accuracy test, ammunition code A081.5901 was
           qualified. An average group spread of 2.27 inches was established.

  4. FIELD FUNCTION:

        A. All ten (10) of the rifles were subjected to the loading and firing
           of 15 rounds of Remington ammunition. The round robin method of
           firing the rifles was used. Fifteen (15) rounds were fired; five
           (5) at a slow feeding cycle speed, five (5) at a medium feeding
           cycle speed, and five (5) at a fast feeding cycle speed.

        B. The following ammunition was used in the field test:

           R350M1 - CODE A08L5901 - 200 GRAIN PSP