

xc: A. A. Hugick
F. E. Martin
File

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE



"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" _____

Ilion, New York
Oct. 13, 1977

TO: J. P. LINDE

FROM: C. J. MILLER / R. E. NIGHTINGALE

SUBJECT: 17 REM. PRIMER BLANKING

Work Order: C 1803

OBJECTIVE:

To determine that the radiused firing pin hole in the Model 700 17 Rem Bolt, would not blank primers.

PROCEDURE:

Three hundred (300) rounds of 17 Rem. ammunition was heated to 140° to increase the pressure to approximately 57,000 C.U. P. One hundred (100) rounds of the heated ammunition was shot in each of three (3) Model 700 rifles, with serial numbers 6395444, 6713463, and 6394666. Each fired case was inspected for primer blanking.

RESULTS:

None of the fired cases had blanked primers.

CONCLUSION:

In a similar, previous test with a non-radiused firing pin hole 53% of the primers blanked, therefore it can be concluded that the radiused firing pin hole reduced the primer blanking.

CJ
M:bd

MODEL 700 PIERCED PRIMER
ON 17 REM. CARTRIDGE

- I. Extent of problem of piercing or blanking 17 Rem. without radiused Firing Pin hole.
 - A. Order 2000 rounds of 17 Rem. ammunition from Lonoke loaded to 57,000 psi.
 - B. Shoot handloads and determine extent of exposure.
- II. Will a consecutive pierced or blanked primer cause the Connector to break and fail?
 - A. Shoot M/700 with 17 caliber ammunition which blanks and pierces primers and determine Connector breakage problem.
 - B. Check trigger pull decay with deformed sear.
- III. Will a broken Connector set up a potentially dangerous condition?
 - A. In testing, can a gun with a broken Connector be made to fire off safe, follow down, fire when bolt is closed, or some other condition?
 - B. Break Connectors and try to determine if unsafe condition exists.
- IV. Set up paper sheet behind Bolt Plug to determine if any gas escapes around Firing Pin Head or along Bolt Guide.