

Ilion, New York
March 25, 1966

TO: C.H. MORSE

FROM: P. HASYPANY

Firing Pin Point Clearance vs. Case Expansion

1. This test was conducted as part of the center fire firing pin breakage investigation. A M/700 and a M/760 were used with ten (10) proof rnds. being fired thru each gun as received and after each alteration.

Alterations consisted of increasing the diameter of the firing pin hole in the M/760 Bolt and decreasing the diameter of the M/700 Firing Pin point.

A total of 100 proof rnds. were fired thru the M/760 and 110 proof rnds. thru the M/700.

2. The M/700 Firing Pin Assembly was also lightened to approx. 60% of the M/760 Firing Pin Assembly weight and fired with 10 proof rnds. No primers were blown or blanked altho the Firing Pin/Bolt clearance was .021".
3. Head Space or Bolt diameters did not increase during the test.

PN:gp