

REMINGTON ARMS COMPANY, INC.  
Ilion Research Division  
December 2, 1974

SUMMARY OF INTENTIONAL GUN ABUSE TEST

Firearm: Remington Model 700 - ADL Grade  
Caliber 30-06 Serial No. 6722530

Failure Mode: None. No catastrophic firearm failure.  
Locking system held. Primer pocket of case  
expanded approximately 50%.

Damage -  
Deformation:

1. Case head fully expanded into bolt face counterbore. Internal flash hole web of case separated from case body.
2. Bolt shroud cracked circumferentially at extractor undercut - approximately 1/2 way around.
3. Ejector pin sheared.
4. Nominal 0.009 inch diametral expansion of barrel bracket seat section of barrel hub.
5. Nominal 0.006 inch diametral expansion of chamber at mouth.
6. Nominal 0.008 inch diametral expansion at bolt shroud counterbore in rear face of barrel.
7. Bolt could not be opened manually.
8. Bolt could not be routinely removed from receiver. This was due to interference with receiver at diametral expansion of bolt shroud.
9. Wood below blind (ADL) magazine blown free.
10. Vertical longitudinal stock crack extending from front of fore end checkering panel to comb cuts. It is believed this crack is not typical. It is attributed to the extreme momentum change of five bullets and the need to restrain the stock to keep gun in field of view of high speed camera.

Fragmentation: Moderate. Stock splintered below magazine well.  
Pieces ejected downward and to right.

Hazard Level: Low.

Comments: This is a continuation of the standardized B/U comparison series.

There is a high speed movie record of this event.

The barrel was removed from the receiver in order to open the bolt.

There was substantial gas relief at the hole in front receiver ring and at the front of the ejection port. This was directed to the right.

All five bullets remained in barrel. Furthest was  $1\frac{1}{2}$ " back from muzzle.

Status: Unserviceable as fired. Receiver and firing pin assembly are thought to be suitable as operable assemblies.

Disposition: All parts will be scrapped two weeks after circulation of this report.

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*William A. Warren Jr.*