TELEX

TO:

J. P. GLAS AO Building Bridgeport November 12, 1981

The attached write-up with minor changes will be used on the video tape I plan to show at the Writer's Seminar. We will be able to show the sequence of blown up rifles in such a way as to prevent the viewer from positively identifying the brand and model number. Any change you would like to make would be appreciated as soon as possible since I will not be able to edit the tape after Saturday, November 14th.

Clark B. Workman

CBW:T Attach. Remington Arms Company has a proud history of safety performance. At the Firearms Manufacturing Plant in Ilion, New York, we hold world records for safety performance, recognized by the National Safety Council. Our management has made it very

\ conditions.

This Safety Attitude not only extends to our employees, it is also of primary importance when we develop products for our customers to use.

clear, that we will not expose our employees to any unsafe working

There are over fifty formalized tests a product must pass before we consider it ready for manufacturing. Over half of those tests are directly related to safety. Today we will show you a few of them.

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## DROP TEST

One of the most important safety considerations in designing a firearm is prevention of accidental discharge. What is it someone identally by mistriffe for imple. In order to be able to test effectively for accidental jar off conditions we have developed a pendulum drop test procedure, that enables us to consistently repeat a given set of impact conditions. This is a sequence that the development of the sequence of the sequenc

Six different drop orientations are tested. Muzzle, butt, top, bottom, left side and right side. This subjects the internal gun mechanism to shock loads from all directions. A supportant is placed in an adapter and put into the chamber to check for fixing pin indent. The drop height is determined to be equivalent of a vertical drop. The impact surface is a two inch maple plank bolted to a brick wall. After each impact, the action is checked to see if the firing pin marked the primer and if the hammer was released by the sear.

Reminston uses the same basic fire control in the 1100, 870, 552, 572, 7 Model Four and Model Six. We feel that this fire control could serve as a standard against which other similar action types are measured.

The series of drop tests you are seeing has been repeated countless times, all with the same results; no accidental discharge. This pendulum will test drop heights up to 7 feet. How high should we go? At Ilion the Research Design Scotion is located on the Tourch files. As an extreme test of this fire control's safety margin we decided to throw it off the foof onto a macadam roadway. An 870 and a Model Four were taken to the roof. Empty primed cartridge cases were loaded into the chamber. The safety switch was put into the off position. The guns were then thrown off the roof. First the 870. Now the Model Four. As you can see, neither gun accidentally discharged.

## MODEL 700

In 1971, a book titled "Bolt Action Rifles" was printed, written by Frank de Haas and edited by John Amber. On page 249, this is what he had to say:

"The Model 721 Remington high powered bolt action rifle was introduced in 1948. In describing this new rifle and action in the March, 1948 issue of THE AMERICAN RIFLEMAN, the late Julian S. Hatcher flatly stated that it was by far the strongest and safest bolt action produced up to that time. In this report General Hatcher describes the torture tests to which the Model 721 was subjected. When the same tests were made on a high numbered 1903 Springfield, 1917 Enfield and a military 1898 Mauser. The 721 was still going strong long after the Springfield, Mauser and Enfield gave up, in that order. Time has proven Hatcher to have been right for in the more than 20 years following his statement Remington actions based on the Model 721 design are still considered by many firearms experts as being the safest, if not the strongest, actions made today."

In the Research Department we are proud of that testimonial and now, 33 years later, we believe that General Hatcher's statement is still accurate. In a few minutes we will show you why we feel that way.

All of you are familiar with Remington's three rings of steel. To refresh your memory, this schematic diagram shows you what it means. The breech bolt extends forward beyond the leading edge of the locking lugs. This permits the bolt to nest inside of a counterbore in the face of the barrel. The benefits of a counterbored bolt are not fully realized without this projection. Its improvement will be consider. Around these two rings of steel is a third ring, the receiver. Nested neatly inside the bolt head is the extractor.) While all of these features, as you see them here, play an important role in the strength of the rifle, this extractor is the least understood of all the elements. Everyone seems to want to apologize for it. We do not. Later we will show you way.

It is generally understood that the most important objective in preventing a rifle from coming apart is to prevent the high pressure gases from getting back into the action. In the 700 this is accomplished in two important ways --

- 1. Prefixer, close tolerance fits between the elements of the system,
- Complete unbroken encirclement of the cartridge head by the bolt counterbore.

When a high pressure round is inadvertently fired, the cartridge brass flows into any creating, and and squirts through like a thick symp. When it fails, the high pressure gases to the 700 bolt shrough any available opening, destroying the action. The 700 bolt shroud prevents this from happening by acting like the Dallas Cowboy's flex defense -- it bends but does not break. As pressure is applied inside the shroud by the brass, the shroud obturates and seals against the counterbore in the barrel before a major portion of the gas can leak by.

Here you see examples of various types of breech bolts in use today. Each of them, compared to the Model 700, has one or more basic differences in their breech design from the standpoint of maximum strength:

- 1. No counterbore
- 2. No mating counterbore in the barrel
- 3. Slotted shroud for the extractor

And, speaking of extractors, let's take a look at a typical cross section of modern extractors. These range in shape and size from the current Remington Extractor, that appears to be small and weak, to the Extractor designed by Paul Mauser back in the 1800s that appears to be big and strong. These two extractors shown side by side look almost like David and Goliath.

what is needed, is a way to show the relative extracting capabilities of one of our engineers. After a lot of headscratching one of our engineers suggested a tug-o-war between David and Goliath. The best way to demonstrate the pull strength of the various extractors was to pit one directly against the other. The vehicle chosen for this test was the tensile machine in the Plant Metallurgical Lab. This machine is used routinely to test samples of the steel we use to manufacture our rifles and shotguns. It has a large dial that records, in pounds, the amount of force necessary to pull on a sample until it fails.

A two headed steel rod was made with an extractor groove in each end. The rod is the same diameter as a 30'06 cartridge head.

Adapted for served into the best plug recess the same holt round to the tentile machine. The two headed rod was then inserted into the face of each breech bolt, and the whole assembly was put into the tensile machine. This procedure gives a direct relationship between the pulling power of each type of extractor.

Now that we have shown you the Remington extractor isn't really such a weak sister and have refreshed your memory on 3 rings of steel, we must still demonstrate how effective the 700 action is in protecting the unsuspecting shooter from high pressure failure. To do this a series of high pressure tests were conducted. A super proof load of 52.4 grains of 4198 powder in a 30'06 cartridge behind a 220 grain bullet was loaded and tested. A few rifles failed the test. To build even more pressure, additional bullets were lodged in the bore ahead of the super proof load. Super proof plus one additional bullet eliminates every action except the 700. We added another, and another, and still another, and the 700 is still intact, but you will never get it open. At this point we gave up. The following high speed motion pictures, taken at 16,000 frames per second, show you what happens when a super proof load plus 4 additional slugs are fired in samples of bolt action rifles in use today.

-6-

Before we end this time, I want to make perfectly clear that we are in no way trying to say that these reflection that we are not safe. Used intelligently and with common sense they are adequately safe for their intended purpose. But, when you get right down to cases, there is no question about which action provides the widest margin of ultimate strength -- The Model 700 Remington.

CBWorkman:T 11-12-81

TEST  1. PROOF  2. CHAMBER CAST  3. HERD SPACE  4. PACCURACY - Life  5. STABILTY OF CONTER OF IMPACT  6. TRIGGER PULL  7. INTERCHANGEABILITY TEST - COST  78. IUTERCHANGEABILITY TEST - PERTORMANCE  8. FIRING PIM Production & TUDENT  9. SAFety MECHAMISM SHOCK TEST  10. BOLT OPENING TEST - PROPROSING  10. BOLT OPENING TEST - PROPROSING  11. TAKE DOWN TUSPECTION  12. STANDARD LIVE FIRE TEST - MAUMAL  13. STANDARD LIVE FIRE TEST - AUTO  14. STANDARD DRY FIRE WITHOUT DUMMY ANMO  15. WET & DUST. TEST  16. NO LUBRICATION TEST  17. COLD TEST - 20 -  178. COLD TEST - 20 -  178. COLD TEST - CSIMULATED)  179. OILED CASE TEST  200. DEFECTIVE AMMUNITION TEST  22. SEFETY MECHANISM FRUCTION TEST  23. BOLT LUG SHEAR TEST  24. OUTDOOR LIVE FIRE TEST - RIFECTT PRITOUS  XX  XX  XX  XX  XX  XX  XX  XX  XX	Affine .	r.	r	f	
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Test	SAFETY	Fuschow	EybuRAVCE	PEFFEMANCE
26, TAKE DOWN SCIEW SHOCK TEST (Special)			! 	
27. Jar off Test	X			
28. FOLLOW DOWN TEST	×	×		
29. BOLT STOP RELEASE TEST		X		
30. EMERGENCY Position Live Fire TesT		X		
31, SAFETY OPERATION TEST	×	×		
32. FOLLOW UP TEST (SAfe UDLOAD)	×	×		
33. GUL FURNITURE TEST	:			×
34. HEAUY Fore END TEST			Ä	
	19	21	4	13
SPECIAL TESTS				
1. Bolt velocity		X	X	
2. ENDURANCE	•		X	
3. Vibration	X		!	
4. ULTIMATE STREUGTH	X			
5, Predictable Mis USE_	X			
6. DANGEROUS COMBINATIONS	X			
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Total	23	22	4	13
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4

Super Proof\_ w/weshoued case

3-23-73

789 \$ 700

Mio, Mark I, Savage 110, & inste & Earson. - Failed

BSA - 1 Super Cross + 1 sling 188 - 1 Super Cross + 1 sling 188 - 1 Super Gross + 1 sling Weathering mk I 1 Super +4 slings

- saturtione facilie

- Catastraphu Failure

- cat sail.

- cat Faine

## M700

The model 700 is the strongest Bolt setion Rifle currently manufactured. That is a pretty big statement to make.

Reger ??

Reserved

Beauther of Market

Shuit an Jarian.

Weather by Mark I.

Savage 11.0

BSA

Ruger ??

Browning RBR

SEN 1500

M70 XTR

Bolt Action Rifles Bage 249 - 250