CUSTOMER COMPLAINTS

Long before the Walker Fire Control was first introduced into a Remington rifle, Remington recognized the importance of customer input. Customers were conceived as sources of input, in lieu of government inspectors, for testing and acceptance of Remington firearms.

Remington Production Document Bates # R2500597 -R2500627

Bridgeport, Connecticut, U.S.A

FOREWOR

The information compiled herein represents the contributions of many individuals of long service and varied experience in our organization. It comprises certain factual data based on analyses of our past experiences in the manufacture of shotguns and rifles and the performance of those weapons in the hands of our customers.

We believe that our employees are just as anxious as Management for maintenance of the quality, usefulness and economic value of our products. To develop and hold high quality standards we all recognize that we must practice constantly the habit of accuracy and thoroughness. Loose inspections and inattention to details are bound to lead to a minimum of good quality which in turn reduces our sales and affects the economic stability of the organization. The quality of our products must exceed that of our competitors at all times as our ultimate customers not only determine if our product is acceptable, but; of more importance, whether or not we stay in business. Therefore, in the mammfacture and assembly of component parts for our shotguns and rifles we must maintain a quality consciousness which will ensure the contribution of good workmanship on the part of all members of the organization as they perform their daily tasks.

The recording of good accomplishments along with the focusing of attention upon existing weaknesses should serve as a guide or reference for those who assume the factory tasks as replacements in production during future years.

Now that war work is discontinued, if we can visualize our customers in place of Government inspectors awaiting our products for test and acceptance, we will go a long way toward building up an army of satisfied users of Remington Sporting Arms with attendant benefits toward our economic security.

Therefore, we are confident that all will unite in efforts to bring about new developments and improved designs combined with accurate fabrication and proper ascembly so that Remington Quality may be maintained at a level unsurpassed in the industry.

W. L. Clay

SAFETY DEVICES

Some mechanical safeties previously employed were so designed that the user of the gun would occasionally pull the trigger while attempting to "put on" or "take off" the safety. This was a former weakness in the Model 11 Shotgun, also in the Model 29 (Model 10). In both guns the former safety was located just in front of the trigger. It was a sliding unit which was pulled to the rear to look the action or put the gun on safety. and was pushed forward to the firing position. Occasionally a shooter in attempting to put the safety "on" would allow his finger to slip off of the safety and strike the trigger, thus discharging the gun accidentally. It was also possible accidentally to discharge, the gun while pushing the safety from "safe" to the firing position. Mon with large fingers or wearing gloves could strike the trigger just to the rear of the safety with sufficient force to fire the arm. The effect of the accidental discharge of a high powered rifle or a shotgun is dangerous and annoying. It is sometimes accompanied by personal injury either to the shooter or

PHO RITORO OF SITTS WITH AT GOOTIGERS Whost AND PHOLOGOT

to adjacent bystanders. The shooter, of course, will invariably blame the arm.

In several instances this deficiency was overcome by changing the design of the safety to a cross bolt at the rear of the trigger guard.

RULES APPLYING TO ALL TYPES OF ARMS

GENERAL RULES:

The gun must be safe. It must withstand a free fall of about 6", striking on the butt. A new model must be tested for "jar off" in various ways as sometimes a slight blow on top of the receiver or butt stock will cause the notches to separate resulting in a jar off. There have been cases where closing a slide action gun too hard would give the same result.

The Model 721 was the first model equipped with the Walker Fire Control. It was introduced in March of 1948. By August of 1948, 3 field complaints surfaced of rifles that would fire upon release of the safety.

Remington Produced Document Bates # AL031908

Plion, New Ica Rigust 25. 19.

PROTIESS 25070

MODEL 721-722 THE CANCES AND SAFETY

INTRODUCTION

Three field complaints have been received witch reported the 1/21 vit; and Rifle firing when the Serety is novel to the "exist prairies. Two case received two of the complaints were tested at alion without it being possible to agree the defect.

It is, however, theoretically possible under volv remove conditions to ever ience this problem and the Ilion Design Meeting of July 15, 1543, resonmended in an immediate mivestigation be made to isvery an alternate forign which would eliminate the basard.

OBJECTIVE

With knowledge of the field complaints, Remington recognized in 1948 that its "potential liability for the safety of our product is somewhat augmented."

Remington Produced Document Bates # R2501440

PREMINGTON BARMS COMPANY FINC

Remington.

PETERS

Bridgeport, Connecticut August 31, 1948

TO: MR. S.M. ALVIS,

From: Mr. A. J. Greene,

Subject: MODEL 721 SAFETY

The gun mentioned in your letter of August 27th was duly delivered to us by Mr. Pinckney, and is returned to him with his copy of this letter. We are unable to secure a malfunction of its safety, and deem its construction a substantial improvement over the model which we had previously examined.

Our usual potential liability for the safety of our product is somewhat augmented by our knowledge that some Model 721 safeties have misfunctioned. However, our liability does not seem to be out of proportion to the advantage of retaining the present sear and safety construction, pending receipt of further complaints from the field.

We note that in the production gun which you supplied the three adjustment screws in the trigger assembly are not staked, as they were in the earlier models. We believe it important that these screws, particularly the one which determines the amount of engagement of connector and sear, be so sealed as to afford a positive indication when our factory adjustment has been altered.

Mother al the

k. J. CREME, Patent Attorney. After noting a 2% malfunction rate is "too high", Remington in 1953 re-affirmed its belief that "complaints from customers is one of our principal yardsticks, especially as to 'what will be acceptable."

Remington Produced Document Bates # R2501804

TO: U. A. Best

Peome S. H. Divis

Subject: Model 721 quality & enfurance resting

Taker date of January 5th, C. J. Theriealt, of the Posting Unit, issued report of results covering the quality and endurance test for the Hodel 721 which was conducted by Research during 1952. In this connection, a conclusion was pade with respect to adequacy of functioning. This conclusion was based on assumptions with respect to the original trial and pilot test as made for this model many years ago.

have reached an agreement as to the fallmay of such a policy. In other words, we often assume corpain calculated risks in commetten with new models but only on basis of confidence that required standards of quality will be attained as production improvements are made. Then too, we must all agree that the complaints from enstances is one of our principal yardsticks, especially as to what will be acceptable, and we believe that everyone will agree that a M malfunction rate in a bolt action gum of this type is too high and that the results of any such tests should be carefully analyzed in an effort to use the information to the best possible advantage towards improving our quality.

We have, therefore, suggested to G. J. Theriant that in future reports of this type, they will simply record and report on the factual results and, where practical, to give comparisons of previous testing. So attempt should be made to judge adequacy.

S. H. Alvia

Arms Research & Development Bivision

Even authorized Remington gunsmiths proposed solutions for incidents of unintended firings upon closure of the bolt or release of the safety.

Remington Produced Document Bates # 1295002285

REMINGTON ARMS COMPANY, INC.

Remingers

Person

Pridgeport, Johnsotisus,
June 18, 1957.

TO:

MR/S. M. ALVIS, Illon

FROM:

JAMES D. CRANJOND

SUBJECT:

STAR AND TRIDER ASSEMBLY-MO ELS 721-722

123 Bridge Street,

eatherford, Texas

We forward today, under separate cover, a box containing a revised trigger and sear assembly for the Model 721 and 722 rifles. This unit was submitted to us by an outside inventor, one T. D. Shortan, who operates the Shorten Gun Shop of eatherfort, Texas.

Mr. Shorten states that he has had several 721 and 722 rifles in for adjustment because the sear would release when the bolt was closed or the safety was released. His redesigned unit is supposed to correct this.

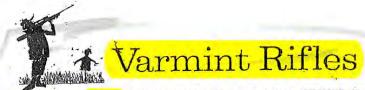
Mm. Shorten is aware that the present working model is rough, but he asks that we evaluate the construction and functioning. It may be that your group can evaluate the structure from the crude drawing of Shorten's and the model, without putting it in a rifle. I don't know. In any event, please live the your opinion of his structure, for communication to nime as will have to return the model to shorten, of course.

Diank you yeary much.

٠

Comme Common

In 1968, Consumer Reports published that the Model 700 "would fire without warning."



THE FIVE CHECK-PATED MODELS WERE ACCURATE ENOUGH TO HIT SMALL VARMINTS AT LONG RANGES

The varmint bunter is in some ways more fortunate than his fellow Nimrods who go out for big game. He can usually hunt near home in any season and without limit on his bug: and some farmers, bedeviled by crows, woodchucks and such, will allow the varminter to shoot in their fields.

But while an old .30-30 may still bring home the venison, the parminter needs a long-range precision rille. It will normally be a rifle chambered for a cartridge with a rather neavy powder charge and a comparatively light bullet of small diameter. That combination results in a flat trajectory and long effective range tup to about 400 yards for some nulibers, and in a buller that tends to disintegrate when it hits no obstacle, rather than ricochet dangerously.

Varmini nauture have used many calibers, from the little 22 Lone Rifle to the 2000 At the lower extreme, you have a short-range cartridge with a slow-moving, high-trajectory bullet that ricoctets easily-not suitable or safe if must unrainting. At the other extreme, you have a biggame cartridge, that has a lurge-diameter cullet with too high a trajectory for accuracy over long range, plus a lot of receil and a report lead enough to make your ears ring and to startle someone taken unawares. In between is anyman's land. The venerable ,22 Hornet is on the small side by teday's stundards and seems to have lost much of its capalacity And the famed 220 Swift, which delivered higher velocity and "atter, trajectory than any commercial cartridge before or since, proved to have drawbacks, (It was extremely loud, some claimed it tended to wear out in rele rapidly, and its relatively light bullet was too easily deflected by the wind, among other things.)

Among the most popular varmint-hunting cartridges todry are 'he .222 Remington and the .22.250 Remington. The .222 has ar effective range of up to about 300 yards and a relatively mild report; the .22-250 has a maximum effective range of about 400 yards, but a considerably bigger bang. On the advice of our consultants, we decided to I'mit our report largely to rifles of those two calibers. Two other rolibers, the 243 Finchester and the 244 Remagton, have been widely used for varmint shooting in the West. But they're a hit heavy for varmints smaller than the torote or fox: and a bit loud for use away from the wide

We purchased 13 models in 11 major brands. Eight rifles were .22-250s and four were .222s (models available in both calibers were tested in .22-250). The other tested rifle, the popular Winchester 70, was not available in either cali-

ber at the time we purchased our test models, although it's how being made in .22-250. Our Winchester fired a .225 caliber bullet, slightly shorter in range than the .22-250.

All the models we tested are repeaters, except for the ton-rated Ruger. That unique rifle has a dropping-block, single-shot action. You operate it by poshing down a hinged lever extending beneath the trigger guard.

The rifle versus the varmint

Above all, the varmint rifle must be accurate. A bullet that hits the target a couple of inches off your aiming point can still bring down a deer, but it may completely miss a prairie dog, crow or woodclack. To meet our consultants' standard of occuracy for a rifle often called upon to hit small targets at long distances a rifle must be capable of grouping all its shots within a circle of about one inch diameter at 190 yards tone minute of angle, or MOA). We fitted each rifle with a high-quality, high-powered telescopic sight and, after a 50-shot "break-in," fired groups of five shots from a rest.

We tested all the rifles with commercial anomunition and checked most of them with carefully hand-loaded ammunition as well. As would be expected, the rifles fired with both types of ammo proved more consistently accurate with the hand-loaded type than with the commercial product. The check-rated Tradewinds, for example, shot slightly outside the MOA with commercial ammo, within the MOA with hand-loaded ammo,

Nine models were judged consistently capable of MOA accuracy with either type of ammunition. The H&R was only slightly outside the MOA limit; the Savage 340 and the similar Western field were significantly further out.

We checked the wid cases for excessive expansion. All checked out satisfactorily, indicating that reases fired in these rifles could probably be retoriled up to about 20, or

While firing for accuracy, we judged the quality of the trigger pull and the smoothness and case of operation of the bolt and the receating mechanism. As a group, bur varmint rifles exhibited better trigger performance than most guns of other types CU has tested in the past, That is as it should be since a good trigger pull-light and without noticeable creep—contributes greatly to the accuracy a varminter must have. A pull of four or five pounds is about right. A heavier pull may cost you in steadiness; a lighter pull risks accidental discharge.

You may have to adjust the trigger pull—or flave a gun- ... ing a rifle to the safety in the store. If the trigger can be smith do it-once you get the rifle, home. We judged the trigger pulls on most of the tested rifles a little heavy as received, but the pull was adjustable on all but the three lowest-ranked models. Where a trigger showed noticeable creep, it's mentioned in the Ratings.

The lightest trigger pull was on the Tradewinds, which has a double-set trigger. To set the front trigger, the bue that fires the rifle, you must first pull the rear trigger ruther hard (about seven pounds on our sumple). Then the front trigger responds to a pull that can safely be selvery light indeed. Ours was adjusted for less than a one-pound pull.

The five check-rated models were judged very good in both trigger pull and mechanical operation (see table, page 158) and, of course, they were judged consistently enpuble of meeting the minimum MOA criterion, at least with handloaded ammunition.

The sixth-ranked rifle, the Remington 700, exhibited a potentially dangerous flaw as first tested. There was so little clearance between the trigger and the trigger guard that when the trigger was pulled with the safety on (nomething you or a friend might do when sighting down the rifle or trying it for feel), the trigger sometimes failed to return to its forward position. And with the teleger in the back position, the rifle would fire without warning the next time the safety was moved to the fire position. The mulfunetion persisted for more than 100 firings before the trigger wore in and performed normally. An unwary luyer might have caused a serious accident by then.

Although we judged the deficiency more a sample defeat than a design shortcoming, we nevertheless downrated the Remington 700 because of it. We would warn dryone buymoved will the safety on, make sure it returns to its fol forward position after you pull it.

We also kave weight in the Rutings to checkering and other grip hiproving devices. Those qualities affect no only the appearance of the rifle (an important matter to many purphasers) but also the case of holding and firing Good, short checkering helps you keep a firm grip; raised checkpiece helps you position your head for a good sighting pillure. The stocks of all but five models (Ruger) Savage IMC, Remington 780, Savage 340 and Western Field) had pised checkpieses, and all but the Remington 788 had deckered grips and fore-ends. Cut checkering . (formed la actual removal of wood) generally provides a better gain than impressed checkering. The Ruger, Wedtherby, Salb, Browning, Tradewinds, BSA and H&R mod els had el checkering. The Winchester, Savage 1100 Savage 344 and Western Field had impressed checkering that we jurged not sharp enough to help your grip much The checking on the Remington 700, though impressed, did provide enough friction to improve the grip.

Special reeds, special features

The variant hunter may drive around a good deal between sholl looking for his game. So he should be able to unload as rifle quickly, without working each cortridge through theaction (it's dangerous to carry a loaded gun in a car, and smally illegal). With eight of the tested repenters you cold remove cartridges easily through a bingel floor plate II the bottom of the magazine. Five models had h removable flox magazine, also judged satisfactory.

Rather than load and unload a magazine, many varming

In the 1970's, gun examinations of rifles returned by customers were conducted by "C. Prosser."

On many occasions, Mr. Prosser examined rifles wherein complaints were made that the rifle had fired upon release of the safety or closure of the bolt.

At varying times, examined rifles would be found to have metal shavings or chips or other conditions that reduced the engagement between the sear and the trigger connector.

Remington Produced Documents Bates # AL0029765, PPS03693, AL0029724, AL0029723, AL0029714, and AL0029713

P.I. GUN EXAMINATION REPORT N	
GENERAL CONDITION: GOOD	R#1 22791
outside work ~	DATE: 11-12-71
	FROM: GURISTY GUN WOR
FIRED AMMO TYPE	SACRAMENTO, CAL
& CONDITION	CUN # : 6372120
PROOF: R.E.P. A INSP.: NOWE	TEST: 13 CODE: No Coo
HEADING! BOLT CLOSES ON ASSEN	MSLY MAX, DA./CAL. 3006
BREECH OPENING;	CHECKED BY: C. PROSSER
RECOIL SHOULDERS: O.K.	APPROVED:
CHAMBER: O.K.	APPROVED:
TEST: No	APPROVED:
COMPONENT CONDITION: (Damaged, Broken,	Old Style) APPROVED:
NO DAMAGED COMPONENT	L. K.
	EXHIBIT
	EXHIBIT In the state of the sta
	EXHIBIT 15
COMPLAINT: QUA FIRES WHEN.	signature 15
	signature 15
	SACETY SECENSED
COMPLAINT: GUN FIRES WHEN.	SACETY SECENSED
COMPLAINT: GUN FIRES WHEN.	SACETY SECENSED
COMPLAINT: GUN FIRES WHEN.	SHEET SEE ENSED
COMMENTS: MALFUNCTION NOT	SHEET SEE ENSED
COMMENTS: MALFUNCTION NOT HOWEVER, EXAMINATION O	SHEET US BE ENSED.
COMMENTS: MALFUNCTION NOT HOWEVER, EXAMINATION OF SEVERAL SMALL METAL	SHEETY IS RELEASED. SHEETY IS RELEASED. VERIFIED BY WAITER. OF THE TRIGGER REVEALS. SHAVINGS WHICH MAY HOVE.
COMMENTS: MALFUNCTION NOT HOWEVER, EXAMINATION OF SEVERAL SHALL METAL IF CONCENTRATED IN ONE	SHEETY IS RELEASED.
COMMENTS: MALFUNCTION NOT HOWEVER, EXAMINATION OF SEVERAL SHALL METAL IF CONCENTRATED IN ONE	SHEETY IS RELEASED.

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			- 41	HIP .		***
.i. No oun		PORT NUMBER!		HODEL: 7		- A
exeral condition:	NEW .			"R# 1 0/	0030	_ '
UTSIDE WORK:	2	•		DATE: 5-1	-72 .	_ *
aprile a management of the same				PROMI ODE	LL HOWE	, ه.ي
IRED AMMO TYPE:	•			GAFENT	Bodo , Ma	-
& CONDITION:				GUN # 1 64	99469	
ROOF R.F.F.H	Samular" /2 Insp. 1 5	Z TEST:	13	CODE: EU	a 10/11	
EADING: O.K.	Manda ang panangan pangan pangan ang panggan panggan panggan panggan panggan panggan panggan panggan panggan p		t.	GA./OAL.:	3006	
REECH OPENING:				CHECKED BY:	C.PEOSS.	ER
scoil shoulders	0.K,			APPROVED:		
HAMBER: O.K.				APPROVED:		
EST: NO.				APPROVED:		
MENT CONDITION NO BERRE MENT CO.	N COMPON	15.020 A	CONNECT LSO FOUR	APPROVED:	e Enapai	_
MOBROES	N COMPON	15.020 A	CONNECT LSO FOUR	APPROVED:	e Enapai	
MOITIONO THENOIM NO BROKE MENT OO	N COMPON	15.020 A	CONNECT LSO FOUR	APPROVED:	e Enapai	
MODERATE OOD	N COMPON	15.020 A	CONNECT LSO FOUR	APPROVED:	e Enapai	
MICHENT CONDITION NO BROKE MENT00 Berneen 7	N COMPON B MIN. I. BIGGER &	CONNECT	CONNECT LSO FOUR	APPROVED:	e Enapai	
MICHENT CONDITION NO BROKE MENT = .00 BETWEEN 7	N COMPON B MIN. I. BIGGER &	CONNECT	CONNECT LSO FOUR	APPROVED:	e Enapai	
MICHENT CONDITION NO BROKE MENT = .00 BETWEEN 7	NOT FIR	CONNECT	CONNECT LSO FOUR	APPROVED:	e Enapai	
MICHENT CONDITION NO BROKE MENT = .00 BETWEEN 7	NOT FIR	CONNECT	CONNECT LSO FOUR	APPROVED:	e Enapai	
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MICHENT CONDITION NO BEOME MENT = .00 BETWEEN 7 WILL CIDENT: FOLL WHENTS: 74E	NOT FIRE	CONNECT	SONNIBET	APPROVED:	E AND	
MICHENT CONDITION NO BROKE MENT 2.00 BETWEEN 7 WILL CONNECTOR	METAL CI	CONVECT S.OZO A. CONVECT A. THE CL	SONNIBET	APPROVED:	E AND	
MICHENT CONDITION NO BROKE MENT 2.00 BETWEEN 7 NELLINT: MILL COLL CONNECTOR	METAL CI	CONNECT	SONNIBET	APPROVED:	E AND	
MICHENT CONDITION NO BROKE MENT 2.00 BETWEEN 7 NELLINT: MILL COLL CONNECTOR	METAL CI	CONVECT S.OZO A. CONVECT A. THE CL	SONNIBET	APPROVED:	E AND	
MENT 2.00 BETWEEN 7 MELLINI: WILL MODERT! FOLL MINERTS: THE CONNECTOR	METAL CI	CONVECT S.OZO A. CONVECT A. THE CL	SONNIBET	APPROVED:	E AND	

RD-6542-1/Rev. 2-15-61	
P.I. WO GUN EXAMINATION REPORT NUMBER:	MODEL: 700 BDL
GENERAL CONDITION: NEW	R#: 026826
OUTSIDE WORK SCOPE MOUNTED	DATE: 12-18-72
	FROM: DICKS SPT. SHOP
FIRED AMMO TYPE:	STAHLSTONN , PA.
& CONDITION: ASSEMBLEK C	GUN # : 6223531
PROOF: R.E.P. INSP. ? TEST: 87	$\infty DE: AS = \frac{3}{69}$
HEADING: O.K.	DK./CAL.: 3006
BREECH OPENING:	CHECKED BY: C.PROSSER
RECOIL SHOULDERS: O.K.	APPROVED:
CHAMBER: O,K,	APPROVED:
TEST: NO	APPROVED:
COMPONENT CONDITION: (Damaged, Broken, Old Style)	APPROVED:
SEAR-TRIGGER CONNECTOR ENGAGE	MENT,015 (MIN.
15.020) BURRS ON SEAR AND TENG	GER . TRIGGER
1.074 (MODEL DRAWING = 1:079) CONNECT	OR 1.081 (1.083)
SAFETY CENTER OF PIVOT TO TOP OF	CAM, 290 (,292)
COMPLAINT: "MISFIRES WHEN HE PUSHES THE	SAFE OFF"
INCIDENT! FOLLOW DOWN	
TROUBLATT POZZE A DODA	
	2-5-1
COMMENTS: FOLLON DOWN COULD HAVE	
BURRS BINDING AND PREVENTING	
EXCESSIVE CONNECTOR -TRIGGER	
ALLOWING THE CONNECTOR TO WORK	
WITH THE SEAR WHICH THE SAFET	y DID NO- LIFT
ENOUGH TO CLEAR. PLAINT	
EXHI	AL 0029723

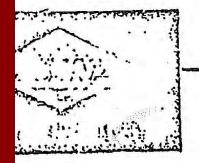
RD-6542-1, Rov. 2-15-61	Clipt congre.
GUN EXAMINATION REPORT NUMBER:	MODEL: 700 PRE
INERAL CORDIVION:	R#: 000394
OUTSIDE WORK	DATE: W## 73
	PROMI SPORTS CENTER
FIRED AMMO TYPE:	PITTSBURGH, KAN.
& CONDITION:	GUN # : 6432940
PROOF: R.E.P A INSE.; 73, TEST: 84	CODE: CONTRACTOR OF THE CONTRA
HEADING:	SA./CAL. 1 243 WIN.
BREECH OPENING:	CHECKED BY:
RECOIL SHOULDERS: O.IC.	APPROVED:
CHAMBER: O.K.	APPROVED:
TEST: NO	APPROVED:
COMPONENT CONDITION: (Damaged, Broken, Old Style)	APPROVED:
BOLT CAM MARRED BY SAFETY.	GROOVE CUT INTO
- LETT REAR OF HOUSING BY FIRMS	PIN HEAD. SEAR-
	11
TRIGGER CONNECTOR ENGAGEMEN	F4.015 (MIN. 13 ,028)
CONNECTOR BINDING ON TRIGGER	
)) [
COMPLAINT: WHENT OFF WHEN THE BOOK THE	S SUOSED
OUT I THE THE PARTY OF THE PART	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	PLAINTIFF'S
INCIDENT: FOLLOW DOWN	EXHIBIT
	3184
	— <u>H</u>
comments: The Transer Connector Pr	OBNEX FRITURES
BETRACT INTO POSITION UNDIR	THE SEAR ALEDINIE
THE FIRMS PIN TO FOLLOW DOWN	
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The state of the s	1/47/
	103/
	AL 0029714

II. /YO GUN EXAMINATION REPORT NUMBER:	HODELI 700 ADL
ENERAL CONDITION: GOOD	R#: 000130
STRIPE WORK! SCOPE MOUNTED, BUTT PA	D DATE: 1-11-73
Firred.	FROM LESTELL CURRY
IRED AMMO TYPE:	GATESVILLE, TEXAS
& CONDITION:	GUN # 1 165224
PROOF: R.E.P. TIST. B7	ODE: WM = 8/65
SADING:	BK./CAL.: 2713 M.F.
REECH OPENING:	CHECKED BY: CPROSSER
RECOIL SHOULDERS: O,K.	APPROVED:
THAMBERI O.K.	APPROVED:
rest. No	APPROVED:
	SEAZ. EVIDENCE OF
OF HOUSING.	REAR-LEFT COTNER
OF HOUSING.	REAR-LEFT COTHER
- FIRING PIN HEAD CATCHING ON	PLAINTIFF'S EXHIBIT
EIRING PIN HEAD CATCHING ON OF HOUSING.	PLAINTIFF'S
EIRING PIN HEAD CATCHING ON OF HOUSING.	PLAINTIFF'S EXHIBIT
EIRING PIN HEAD CATCHING ON OF HOUSING. COMPLIANT: FIRED AS BOLT WAS UNLESSINGIBENT: FOLLOW DOWN	PLAINTIFF'S EXHIBIT 3183
EIRING PIN HEAD CATCHING ON OF HOUSING.	PLAINTIFF'S EXHIBIT 3183
DE HOUSING. DE HOUSING. DE HOUSING. DOWNLAIM: FIRED AS BOLT WAS UNLO	PLAINTIFF'S EXHIBIT 3183 GER AND CONNECTOR
DOMENTS: THE CHOS BETWEEN TRIG CAUSE SEAR- CONNECTOR INC.	PLAINTIFF'S EXHIBIT 3183 GER AND CONNECTOR HE HARDENED
DOMENTS: THE CHIOS BETWEEN TRIA	PLAINTIFF'S EXHIBIT 3183 GER AND CONNECTOR IGNOGEMENT FOR MEY HE HARDENED D- HOUSING INTER

In each of the preceding examples, rifles returned with complaints that the rifle fired without a pull of the trigger were described as being in either "good" or "new" condition.

In 1973, the Australian government banned importation of Remington Model 700's until Remington undertook measures "to correct what they declare is an unsafe trigger mechanism."

Remington Produced Document Bates # R2505356



BOUSTHAD WOOD PIY. LID.

CHR. DAY & EGERTON STREETS, SILVERWATER • PHONE 648 3922 ADDRESS ALL MAIL TO: P.O. BOX 148, ERMINGTON 2115 CABLE AND TELEGRAPHIC ADDRESS: "WINWOODED" SYDNEY

BRANCH OFFICES: BRISBANE, MELBOURNE, ADELAIDE, PERTH AND AT: WELLINGTON, AUCKLAND, CHRISTCHURCH, LONDON REGISTERED OFFICE: 407 CITY ROAD, SOUTH MELBOURNE

DFT:LM 765 22nd March, 1973.

PT.OE"VED

EFFEG - F. E. Alla...

Attention Mr. Cipcer.

Remington Arms Co. Inc., 939 Barnum Ave., Bridgeport, CONNECTICUT. U.S.A. RECEIVED

1: I: AR 27 1973

INTERNATIONAL SALES

Gentlemen,

SUBJECT:

PROHIBITIVE FIREARM IMPORTS
NODELS 700 & 5415

The Australian Commonwealth Police in conjunction with the Department of Customs and Excise have siezed all 700 and 5418 firearms offour recent shipments and will not release them until we undertake to correct what they declare is an unsafe trigger mechanism.

This current problem is the result of a situation described.

Remington modified the trigger mechanism of the Model 700 by adding a trigger screw lock screw to prevent improper adjustment of the trigger for rifles exported to Australia. Remington failed to make this change on rifles that stay in the United States.

CRIPTIVE INFORMATION			· · · · · · · · · · · · · · · · · · ·	
"For Australian use only: substitute Trigger Engagem Screw followed by Trigger Engagement Screw Lock Trigger Engagement Screw Lock Trigger Engagement Screw Lock (has a radius on and of some only); (has a radius on and of some only); (has a radius on and of some only);	rew)		Bu Tri Bu Bu Bu Bu Bu Bu Bu B	mmy Pina - \$51468 If Spring - \$17047 Uger Step Screw - \$15481 Uger Step Screw - \$15481 Uger Adjusting Screw - \$176 Ucrt Dog Point Screw) UF; For Australian use only Ustine Triquer Screw Front E119; Followed by Triquer Sck Ock Screw Front, \$9427.
offowork by Trigger Thyggenmont Scrow icrow , \$91427 Trigger Pin \$24477		Triquer - A1528A	rigger Oppneator –	
NOTE: For Left Hand Version, Industry of Trigger Housing Assembly 132005	1		8	Trigger screw Front followed by Trigger Screw Lock Screw."

A three-year history of complaints of "Fires on Safe" resulted in a conclusion that all such complaints were "the result of minimal Connector-Sear engagement."

Remington Produced Document Bates # AL0029705

4							
1.7	Willus	DON'T	SAY IT-	-WRIT	EIT		
Jua !	Dalla Var	DON'T :		i	DATE	December 21	., 1973
P 1	R. Carr		-				
A			П /7				
		M/700-	CUSTOMER CO	MPLAINTS			
		Fires or	Safe - Fol	lows down			
	April 19	11			5965.6		
		ago, all gur					
		amination and all the resul					that
		an operation			he adjusts	ment on a co	mparator
which	h assured a	minimum engag	gement of .C	015,1	1		
It i	my opinion	that review	of these gu	ms, except	n the case	of Damaged	Actions
or P	ersonal Inju	ry guns, is r	no longer ju	stiffed and	should be	discontinue	d,
					10.17 to	you	
	- 25	ry guns, is i	manut	aug fre	very		
	Thu	, Thus	pusa	1	1		
	000		<i>V</i> .	0,1	11	not a	Tall.
			*/	them	hui	not a	rende
			H ^E V		to/	TA + 6 .1	his My
					las da	melations	- of 1
		TO BE SAFE	FIRST THINK Y	OU MIGHT NO	T BE	F. F	lunke
					11		

Complaints from the field were consistent with Remington's internal testing. In one 4-month period in 1975, Remington experienced 46 instances of Fire on Safety Release or "Follow Down," during its quality control testing.

DON	F SAY I	T	VRIT	FIT

			0000000		
TO GEORGE MARTIN		0	DATE	15-2-75	
		SAFETY MALFUNCTIONS			
FROM GEIE BULLIS.		GALLERY		10.7	** <u>*</u>
		and the state of t			

				INCLL										•		TOTAL SAFETY
MODEL	, F	-SR	12.5°	Y	JO	<u>ت</u> 1 - با	777	FD	1);	77.75	FOS	<u>-</u>	7175	WW	11:1	TOINL SAFETY MALFUNCTIONS BY MODEL
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700	9						7	19	10	1				1	•	1.47
-			2 "													1:: 1
788	4						3	9	3	2	9	4.	14	95	53	196
TOTALS	14		 	-1417-	April 2		30	106	70	:3	.9	4	14	97	53	400

MALFUNCTION MEANINGS

FSR - FIRES WHEN SAFE IS RELEASED - SELF EXPL.

10 - JARS OFF (HAMMER FAILS TO STAY ENGAGED WITH SEAR AND FALLS DOWN WHEN GUN IS JARRED.)

FD - FOLLOWS DOWN (COCKING PIECE FAILS TO PROPERLY ENGAGE WITH SEAR ABOD FOLLOWS THE COCKING CAM SURFACE OF THE BOLT TO THE FIRED POSITION).

FOS - FIRES ON SAFE (GIN FIRES WITH SAFE IN "ON" POSITION WHEN TRIBBER IS PULLED).

SWW - SAFETY WON'T WORK - SELF EXPL.

* - 1975 DATA FROM DEC. 26, AN TO APRIL 299.1975 ONLY.

Styli

A "follow down" is essentially a firing of the rifle, although in a "soft" follow down, there is insufficient energy in the firing pin for the rifle to actually fire.

By late 1979, in spite of "hundreds" of customer complaints, Remington attributed all such complaints to "tampering", "over oiling" or some "other unauthorized alterations."

Remington Produced Document Bates # R2543636

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington

PETERS

Grad little by El

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY"

For your info
TO: E.G. LARSON

FROM: E.F. SIENKIEWICZ 2-26-19

SUBJECT: RIFLES RETURNED FOR FIRE ON SAFE RELEASE

Since the Model 600 recall, hundreds of people owning Model 700 and other model firearms have contacted Remington alleging that their guns have fired when pushing the safety from on safe to off safe position without touching the trigger.

To date, all such inquiries have been handled by requesting the rifle be returned to Ilion for examination and repair at no charge.

Examinations of the returned guns received at Ilion have revealed no factory defects. All problems that have been found are due to customers tampering with the trigger adjusting screws, over oiling, (I.E. motor oil, salad oil, etc.) and other unauthorized alterations.

Several models returned are old obsolete Models 721, 722 rifles, some being 30 years old, that are worn from hard use, including the trigger assemblies. We do not have any replacement assemblies for these models; therefore, requiring extensive alterations to present Model 700 trigger assemblies for installation at no charge.

Each firearm returned requires 20 minutes examination time for each of three (3) engineers and \$25.00 to \$30.00 Axms Service charges for time and parts to make the repairs, totaling approximately \$50.00 to \$55.00 per gum on a no charge basis:

I believe that we should review this problem with our Legal Department and, if possible, reword our letters to customers on these alleged incidences to read: "Return your rifle for our examination and, if the rifle is found to be factory defective, the repairs will be made at no charge." If these guns have been tampered with, neglected, or parts are worn because of long usage, the customer should be responsible for the repairs.

In order to put this problem into proper prospective, 500 guns returned, examined and repaired on a no charge basis, is coating our Company between \$25,000 and \$27,000.

Et Sichianing

Remington, however, realized it had never informed customers about "improper cleaning or improper lubrication". "We must investigate this more fully."

Remington Produced Document Bates # AL0017502

"T SAY VI-WRITE IT 7. Capelletti 6 Summed Triggers - Langon's memo of Oct 3/80 con 10/13/80 I have referred this to T capeletti's Group for action. To answer Farson's questions, (1) We must investigate this more fully (2) We do not worm) plout ingeryen Cleaning or improper tubrication of the fere control in our manual. STOP, LOOK, AND LIVE RD 778

Even by Remington's own assessment, 2% of all Model 700's could be "tricked". a condition whereby the safety could be placed in an intermediate position between "safe" and "fire" or would "fire off safe.'

Remington Produced Document Bates # R2508949

E. HOOTON, JR.

MODEL 700 RETURNS TO ARMS SERVICE 6-13-78 - 1-15-79

	4.	Before 1975	1975 To Date	Total.
I.	Total Tested	<u>907</u>	2,469	3,376
II.	Failed Trick Test Customer Caused Other	888% 444% 12	1457% 936% 23	2265% 1339%
III.	Fires Off Safe Customer Caused Other	999% 444%	2081% 520%	2986% 927%

R. L. Hall Plant Manager

H. K. Boyle Asst. Plant Manager

Customer complaints continued. Out of 133 complaints received between July 1979 and January 1980, 44 were "verified."

Remington Produced Document Bates # R2508943-45

Total No. = 3

Complaints Verified

REMINGTON ARMS CO. RECEIVED J. P. Linde

T. W. Rawson, Bpt.

E. G. Larson . "...

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington, **OUPORD**

MAR. 7 1980

Jor Mour Active Control "CONFINE YOUR LETTER TO ONE SUBJECT ONLY".

E. HOOTON, JR.

SAFETY-RELATED COMPLAINTS-BOLT ACTION CENTER FIRE RIFLES JULY, 1979 - JANUARY, 1980

In response to Earl Larson's letter to D. J. Sanita dated January 23, 1980, the following data is supplied. Listed are items where Bolt Action firearms were returned for a safety complaint. We have been previously reporting on all customer returned Model 700's that feiled the trick test and fires off safe (see attached letter).

<u>Model</u>	Production for the Period	Co	mplain	S B	Total to D	No. U		Total No. Verified
700	83,862		133			89		ի կ
788	14,735	181	-10	=		4		6
600	-	•	5		**	3		2
660			1			-	•	2.
721			1			. 1		2
722	-		1			~	2.	1
? 725	-		1			-		1

Complaints - Unable to Duplicate

Total No.

I. Model 700

	the second secon		
1)	Rifle discharged when Safety is released	54	
2)	Trigger stiff - misfires	7	
3)	Follows Down	Ī	1
4)	Bolt closes hard and discharges	2	
5)	Delayed firing	5	ocutativa.
6)	Fires on closing Bolt when unloading	á	
7)	Rifle discharged when Bolt handle raised	9	
8)	Push Safety to "Off" position - slight touch of		
	Trigger and rifle discharges	1	A.
9)	Accidental discharge	Ē	
and the state of the last	Fires on closing	á	
	Safety does not work	.1	
	Defective Safety - works hard	7	
	Faulty Trigger - gun goes off	1	
	Goes off prematurely	1	
		80	

I. Model 700

Complaints:

Courons		No				
Causes:		No.				
a) Insufficient Sear lift		3				
b) Trigger bent .		1				>
c) Adjusting screws adjusted		-				
outside of factory		8		()		
d) Safety Detent ball missin	g	1				
e) Excess oil in housing		1				
f) Interior of housing dirty		1			11.3	
 g) Excess movement of Trigge h) Trigger binds on Trigger 		7				
i) Excess clearance - Trigger		7				
Trigger Pin	ii. Edila	1	-			
j) Safety not responsive		1				
0, 1220, 200 202,000		-	4			
Pollows Down				Total	L No.	= 8
Causes:		No.				
a) Sear binds		14				
b) Adjusting Screws adjusted	1	4				
outside of factory	•	2				
c) Connector broken		1				
d) Engagement surfaces of Se	eer	-				
and Connector chipped		2				

Complaints Verified Contd.

I. Model 700 - Contd.

. 3)	Accidental Discharge	
	Causes:	No.
	a) Insufficient Sear lift b) Adjusting Screws edjusted	1
	b) Adjusting Screws adjusted outside of factory	1

4) Safety Does Not Work

lauses:	No.	
	-	

a) Safety clearance cut in	
Stock miscut	1
b) Safety binds in Receiver	1
c) Detent ball missing .	1

5) Fires on Closing

auses:	Cé y	In se	No.	

a)	Interior of	of housing dirty	- oily	1
b)	Sear rubs	in housing .		1
c)	Adjusting	Screws adjusted		
		of factory .	4	1
3)	Connector	heolean		7

⁶⁾ Riffle Discharges with Safety On

Remington ignored even reports from its own authorized gunsmiths, trained to recognize and service returned rifles.

Remington Produced Document Bates # R2531937

CUNSMITH CALL REPORT

nate 7/25/83	Heport	er Donal	d McClure
hop Name C. Wheeler Guns & Gunsmit	h Ser. Gunsmith'	s Name C.FWh	oeler
nop Name C. Wheeler Guns & Gunsmit	Way Richland,	WA,	210 99352
No. & Street	City	State	
unsmith on Premises? Yes If not	, give address belo	w:	
unsmith's Address			Zip '
No. & Street	City	State	
ecommended List (X) Open Acct. (X)	% Disc. 30%	Dealer (X)	arge () Small (XX
	NEW GUN REPAIR		
1) C. Wheeler - Owner/Gunsmith	(2)		2.9 4
3)	(4)		

PECIFIC PROBLEMS ENCOUNTERED:

- 1. M-700 Guns fire when safety switch moved to off position.
- 2. M-1146 12 Ga. Needed oversize locking block.

ENERAL DISCUSSION

Ar. Wheeler told me they have had 5 M-700's in the last year which the owners claimed fired when the safety was pushed to the off position. All were returned to Arms Service per our instructions. The guns came back with new triggers installed but no explanation of what, if anything, was found wrong. He said a couple of the gun owners were unhappy because their gun had to be sent to the factory, but he told them that was Company policy, so they accepted it.

Still some M-1148 shotguns coming in; usually need an oversize locking block to correct the problem.

By the 1990's, the rate of customer complaints was "constantly increasing."

Remington Produced Document Bates # PR0604 and PR0545-46

REMINGTON ARMS COMPANY, INC.

INTER-OFFARTMENTAL CORRESPONDENCE

Remington

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY"_

January 25, 1990

TO:

K.D. GREEN

FHOM:

RE:

M/700 RIFLE RETURNS - ALLEGED ACCIDENTAL FIRINGS

The number of Model 700 rifles being returned to the factory because of alleged accidental firing malfunctions is constantly increasing.

170 were returned to Product Service for examination in 1989 with various accidental firing complaints.

To date this year, 29 have been returned.

JAS: tpb

cc: W.E. Erleson

In the mid-1990's, Remington commissioned an outside laboratory to investigate the legitimacy of complaints of unintended firings. H.P. White Laboratories also experienced a fire on safety release with one of the rifles it was commissioned to examine.

Remington Produced Document Bates # MA2839-40 and MA2845

TEST REPORT

EXTREME ENVIRONMENT, RELIABILITY
TESTING OF MODIFIED MODEL 700,
RIFLE, FIRE CONTROL ASSEMBLIES

Prepared For

Remington Arms Company, Inc.
Research and Development Technical Center
315 West Ring Road
Elizabethtown, Kentucky
42701

By

H.P. White Laboratory, Inc. 3114 Scarboro Road Street, Maryland 21154

MA2839

October 1995

PREFACI

This report presents the results of Extreme Environment Testing of modified, Model 700 Rifle Fire control Assemblies comparatively with currently fielded, Model 700 Rifle Fire Control Assemblies. The tests were conducted in accordance with Remington Arms Company, Inc. Purchase Order Number LRR-0792.

parcries.

1.5 Summary

- 1.5.1 Except for the Blowing Sand and Dust Test, none of the extreme environmental testing produced a discernible effect on the operation of either configuration of Fire Control Groups
 - 1.5.1.1 The Sand/Dust Test adversely effected the operation of both; of the Fire Control Groups.
- 1.5.2 None of the extreme environmental testing produced inadvertent firings with either Fire Control Group configuration.
 - 1.5.2.1 All of the malfunctions induced by conditions of the tests interrupted the firing sequence and are therefore categorized as having no effect on safety.
- 1.5.3 During the final cleaning, subsequent to the last test of the series, two of the rifles "fired" inadvertently with the release of the safety one each of both configurations of the Fire Control Group.
 - 1.5.3.1 A Safety Manipulation Test was conducted which performed one hundred trials with each of the five Modified Fire Control Groups, the three previously tested, unmodified Fire Control Groups and two additional, unmodified Fire Control Groups not previously tested (10 guns/1000 testing) with no additional inadvertent "firings".

Between 1992 and 2004, Remington had received approximately 3,273 customer complaints of unintended firings. In summary, between 1992 and 2004 there were approximately five (5) reported unintended firings per week

SUMMARY OF CUSTOMER COMPLAINTS FROM WILLIAMS PRODUCTION BATES STAMPED DOCUMENTS MAE 00012056 -00012530

YEAR	TOTAL COMPLAINTS	FIRE ON SAFETY RELEASE	FIRE ON BOLT CLOSURE	FIRE ON BOLT OPENING	OTH ER	# that are 600 or 660's
1992	127	75	36	4	12	5
1993	38	24	8	2	4	3
1994	409	205	126	6	72	18
1995	262	136	78	18	30	15
1996	179	104	54	9	12	6
1997	177	110	55	6	6	4
1998	146	92	41	7	6	4
1999	167	98	53	13	3	10
2000	151	96	38	9	8	11
2001	438	297	118	12	11	35
2002	555	325	140	44	46	41
2003	354	214	106	8	26	25
2004	270	158	81	13	18	16
TOTALS	3273	1934	934	151	244	193
				- :		

Between 1993 and 2006, Remington paid over \$18 million in settlements and judgments to people injured or killed as a result of unintended firings.

Remington Settlements Post 12/1/93 Models 700, Seven and 710

12/1/93-12/31/97

\$7,377,999

9 matters

1/1/98-12/31/02

\$5,532,000

10 matters

1/1/03-12/31/06

\$5,559,680

15 matters

CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER

WILLIAMS V. REMINGTON

\$18,469,679

WIL 09027

Remington failed to heed its own advice expressed in 1945 to "visualize our customers in place of Government inspectors awaiting our products for test and acceptance."