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

ridgeport, Connecticut, U.S.A October 1945

OREWOR

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 safetics 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. Men 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 SHIPS WING OF SCOTCERS Whom and PHOCACL

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

Prior, New Ic.

PROTIESS 25071

KODEL 721-722 FRE RIVERS AND SAFETY

INTRODUCTION

Three field complaints have been received witch reported the "," 21 with a Rifle firing when the Serety is noved to the "or or produced the "," 21 with the transfer of the complaints were tested at lion without it being possible to were the defect.

It is, however, theoretically possible under very remove conditions to a relience this problem and the Ilion Design Westing of July 15, 1543, chromaded in an immediate mivestigation be made to develop an alternation for in this house 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

REMINGTON ARMS COMPANY, INC

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

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

TOI

. W. A. Book

PROME

S. H. Mys.

Subject: Widel 721 quality & endurance perfing

finder date of January 5th, C. J. Therierit, of the Testing Unit, issued report of results evering the quality and endurance test for the Model 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 fallacy of such a policy. In other words, we often assume corpain calculated risks in connection 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 customers is one of our principal yardsticks, especially as to "that will be acceptable", and we believe that everyone will agree that a 21 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 adventage 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. M. Alvia

Arms Research & Development Division

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

REMINSTON ARMS COMPANY INC.

Printed Departmental Company of the C

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. E. Shortan, who operates the Shorten Gun Shop of eatherford, Texas.

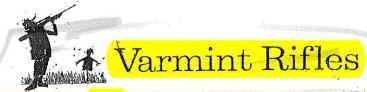
Mr. Shorten states that he has had several 721 and 722 rifles in for adjustment because the sear would release when the bolt was closed or the safety was released. His redesigned unit is supposed to correct this.

Mr. 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 him. "E will have to return the model to shorten, of course.

Thank you yeary nuch.

The Telephone Common of the Co

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 variant hunter 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 bag: and some formers, bedeviled by crows, woodchucks and such, will, allow the varianter to shoot in their fields.

But while an old .30-30 may still bring home the venison, the yarminetr needs a long-range precision rifle. 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 cullbars, and in a bullet that tends to disintegrate when it him an obstacle, rather than ricochet dangerously.

Varmini nauture have used many calibers, from the little 22 Long Rifle to the Mister At the lower extreme, you have a short-range cartridge with a slow-moving, high-trajentory bullet that ricochets easily-not suitable or safe fifr most unresinting. At the other extreme, you have a biggame rattridge, that has a large-diameter cullet with too high a trajectory for accuracy over long range, plus a lot of regell 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 Patter trajectory than any commercial cartridge before or since, proved to have drawbacks, (It was extremely loud, some claimed it tended to wear out inviels rapidly, and its relatively light bullet was too easily deflected by the wind, among other things,)

Among the most popular varmint-hunting cartridges to-dry are the .222 Remington and the .22-250 Remington. The .222 has ar effective range of up to about 300 yards and a reletively mild report; the .22-250 has a maximum effective range of about 400 yards, but a considerably ligger bang. On the advice of our consultants, we decided to finit our report largely to rifles of those two calibers. Two other colibers, the .243 # inchester and the .244 Remington, have been widely used for varmint shooting in the West. But they're a bit heavy for varmints smaller than the toyote or fox and a bit loud for use away from the wide open staces:

We purchased 13 models in 11 major brands. Eight rifles were. 22:250 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 caliber at the time we purchased our test models, although it's now 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 top-rated Ruger. That unique tille has a dropping-block, single-shot action. You operate it by pushing down a hinged lever extending beneath the trigger guard.

The rifle versus the varmint

Above all, the varmint rille 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 woodchuck. To meet our consultantal standard of accuracy for a rille often called upone to hit small targets at long distances a rille must be capable jof grouping all its shots within a circle of about one inch diameter at 100 yards tone minute of angle, or MOA). We fitted each rille with a high-quality, high-powered telescopic sight and, after a 50-shot "break-in," fired groupal of five shots from a rest.

We tested all the rifles with commercial ammunition 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 commercial ammo, within the MOA with commercial ammo, within the MOA.

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 forther out.

We checked the was cases for excessive expansion. All checked out satisfactorily, indicating that cases fixed in these rifles could probably be retorded up to about 20 or 30 times.

While firing for accuracy, we judged the quality of the trigger pull and the smoothness and case of operation of the bolt and the repeating mechanism. As a group, but varnint 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 lave a gunsmith 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 pnothat fires the rifle, you must first pull the rear trigger rather hard (about seven pounds on our sample). Then the front trigger responds to a pull that can safely be set very light indeed. Ours was adjusted for less than a one-pound pull.

The five check-rated models were judged very good in hoth trigger pull and mechanical operation (see table, page 158) and, of course, they were judged consistently capable of meeting the minimum MOA criterion, at least with hund-loaded 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 (nonething 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 trigger in the back position, the rifle would fire without warming the next time the safety was moved to the fire position. The multunetion persisted for more than 100 firings before the trigger were in and performed normally. An unwary layer might have caused a serious accident by then.

Although we judged the deficiency more a sample defect than a design shortcoming, we nevertheless downrated the Remington 700 because of it. We would ward downe buy-

ing a rifle to test the safety in the store. If the trigger can be moved with the safety on, make sure it returns to its full 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 purchasers) 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 IIIC, Remington 788, Savage 340 and Western Field) had pised checkpieses, and all but the Remington 788 had decekered 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 checkling on the Remington 700, though impressed, did provide enough friction to improve the grip.

Special reds, special features

The variant hunter may drive around a good deal between shot, looking for his game. So he should be able to unload his rifle quickly, without working each cartridge through the action (it's dangerous to carry a loaded gun in a car, and smally illegal). With eight of the tested repeaters you can'd remove cartridges easily through a hingel floor plates, the bottom of the magazine. Five models had a removable flox magazine, also judged satisfactory.

Rather (an 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 NUMBER:	HODEL: 700 ADL
GENERAL CONDITION: GOOD	: R # : 2279!
OUTS DE WORK NO	DATE: 11-12-71
	FROM: CHRISTY GUN WOR
FIRED AMMO TYPE	SACRAMENTO, CAL
& CONDITION: ASSEMBLER 12	CUN # : 6372120
PROOF: R.E.P. A INSP. 1 None TEST: 1	3 ODE: No Con
HEADING: BOLT CLOSES ON ASSEMBLY MIX	4x, 0006
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 COMPONENTS.	
	EXHIBIT
	EXHIBIT 15
	EXHIBIT 15
COMPLAINT: GON FIRES WHEN SHEET	Single 15
the second of th	Single 15
the second of th	SEE EASED.
COMPLAINT: GUN FIRES WHEN SARETY	SEE EASED.
COMPLAINT: GUN FIRES WHEN SARETY	SEE EASED.
COMPLAINT: GUN FIRES WHEN SARETY	SPECE ASED
COMPLAINT: GUN FIRES WHEN SMEETY INCIDENT: FOLLOW DOWN.	SEE ENSED.
COMMENTS: MALFUNCTION NOT VERIE	SPECENSED. SPECENSED. SIED BY WRITER. RIGGER REVENUES.
COMPLAINT: GUN FIRES WHEN SHEETY INCIDENT: FOLLOW DOWN. COMMENTS: MALFUNCTION NOT VERIE HOWEVER, EXAMINATION OF THE T	SPELENSED. SPELENSED. SIEGER REVENUS AS WHICH MAY HAVE,
COMPLAINT: GUN FIRES WHEN SHEETY INCIDENT: FOLLOW DOWN. COMMENTS: MALFUNCTION NOT VERIE HOWEVER, EXAMINATION OF THE T	SPELENSED.
COMMENTS: MALFUNCTION NOT VERIE HONEVER, EXAMINATION OF THE T SEVERAL SHALL METAL SHAVING IF CONCENTRATED IN ONE POSITI	SPECENSED. SPECEN

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all and a second	*	CHIP	- GMakine
.1. NO OUN EXAMI	NATION REPORT "NUMBER"	MODEL: 7	OO BDL
exert condition. New	<u> </u>	"R#: 0/	0030
TSIDE WORKI . NO		DATE: <u>5-</u>	1-72
		FROM: ODE	CL HOWE, CO
RED AMMO TYPE:	and the second action of the second	GAERN	BOSO N.C.
& CONDITION :		GUN ∯ 1 <u>64</u>	89469
DOF1 <u>R.F.F. H</u> INSI		13 CODE: EU	10/71
LDING: O.K.	den de grande de des de des de des de des de des de des de	在木./OAL.:	3006
SECH OPENING:		CHECKED BY:	C.PEDSSER
COIL SHOULDERS, O.K.	The same that th	- APPROVED:	
MBER: O.K.		APPROVED:	
STI NO.	•	APPROVED;	
MENT 2.008	neged, Broken, Old Style MAPONENTS. CO MIN. 15.020 AL. GER 27 CONNECTO	APPROVED:	
MENT 2.008	MPONENTS. CO	APPROVED:	
MENT 2.008	MIN, 13.020 AL	APPROVED:	
SPENER CONDITION: (Dam NO BROKEN CO MENT 2.008 / BETWEEN TRIE	MIN, IS.OZO AL. SER A CONNECTO	APPROVED:	
HOBROKEN COMPANY COMPANY COMPANY 2.008 /	MIN, IS.OZO AL. SER A CONNECTO	APPROVED:	
HOBROKEN COMPANY COMPANY COMPANY 2.008 /	MIN, IS.OZO AL. SER A CONNECTO	APPROVED:	
HAINT: WILL NO	MPONENTS. CO MIN. 13.020 AL. GER & CONNECTO	APPROVED:	
SPENERY CONDITION: (Dam NO BROKEN CO MENT 2 .008 / BETWEEN TRIE	MPONENTS. CO MIN. 13.020 AL. GER & CONNECTO	APPROVED:	
SPENERT CONDITION: (Dam NO BROWEN CO MENT 2 ,008 / BETWEEN TRIE	MPONENTS. CO MIN. 13.020 AL. GER & CONNECTO	APPROVED:	
SPENENT CONDITION: (Dam NO BROKEN CO MENT 2.008 BETHEEN TRIE PLKINT: MILL NO	MPONENTS. CO MIN. 13.020 AL. GER & CONNECTO	APPROVED:	
MENT: MILL NO HENTS: THE MET	MPONENTS. CO MIN. 13.020 AL. GER & CONNECTO T FIRE DOWN.	APPROVED: NAMEGTOR, SEN SO FOUND METHOR Z	EAND
MENT: THE MET CONNECTOR RE	MER & CONNECTOR T FIRE DOWN. PL CHIP BETWE DUCED THE CON	APPROVED:	EAND
MENT: THE MET CONNECTOR RE	MPONENTS. CO MIN. 13.020 AL. GER & CONNECTO T FIRE DOWN.	APPROVED:	EAND
MENT: THE MET CONNECTOR RE	MER & CONNECTOR T FIRE DOWN. PL CHIP BETWE DUCED THE CON	APPROVED:	E AND

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RD-6542-1/Rbv. 2-15-61	
P.I. WO GUN EXAMINATION REPORT NUMBER:	HODEL: 700 BDL
GENERAL CONDITION: NEW	R#: 026826
OUTSIDE WORK SCOPE MOUNTED	DATE: 12-18-72
- Charles of the Charles	FROM: DICKS SPT. SHOP
FIRED AMMO TYPE:	STAHLSTONN , PA.
& CONDITION: ASSEMBLEK C	GUN #: 6223531
PROOF: R.E.P. INSP. ? TEST: 87	
HEADING: O.K.	DK./CAL.: 3000
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 TRIGO	
	OR 1.081 (1.083)
SAFETY CENTER OF PIVOT TO TOP OF	(1292) (1296)
COMPLAINT: "MISFIRES WHEN HE PUSHES THE	SAFE OFF"
INCIDENT: FOLLOW DOWN	
in a 2D	
COMMENTS: FOLLON DOWN COULD HAVE	BEEN DUE TO
BURES BINDING AND PREVENTING	
EXCESSIVE CONNECTOR -TRIGGER	
ALLOWING THE CONNECTOR TO WORK	
WITH THE SEAS WHICH THE SAFET	
ENOUGH TO CLEAR. PLAINT	
, EXHI	

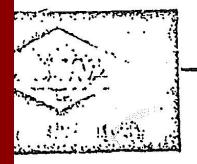
Clipt Congre.
MODEL: 700 BRA
R#: 000394
DATE:
FROM: SPORTS CENTER
PITTSBURGH, KAN.
GUN # 1 6432940
CODE:
DK./CAL.: 243 WIN.
CHECKED BY:
APPROVED:
APPROVED:
APPROVED:
APPROVED:
GROOVE CUT INTO
PIN HEAD. SEAR-
1.015 (MIN. 15,020)
7
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PLAINTIFF'S
3184
OBABLA FRIGHT
HE SEAR, ALCONIUS
107

	and the second s
P.I. MO GUN EXAMINATION REPORT NUMBER:	MODELL 700 ADL
GENERAL CONDITION: GOOD	R#: 000130
OUTSIDE WORK STOPE MOUNTED, BUTT PAD	DATE: 1-11-73
Firred.	FROM: ESTELL CURRY
FIRED AMMO TYPE:	GATESVILLE, TEXAS
& CONDITION:	GUN # : 165224
PROOF: R.E.P. INSP. D TEST: 87	CODE: WM = 8/65
HEADING:	EX./CAL.: 27.3 M
BREECH OPENING:	CHECKED BY: C.PROSSER
RECOIL SHOULDERS: O.X.	APPROVED:
CHAMBER: O.K.	APPROVED:
TEST: No	APPROVED:
COMPONENT CONDITION: (Damaged, Broken, Old Style)	APPROVED:
STEEL CHIPS BETWEEN TOUGGER A	ND CONNECTOR.
HARDENED LUBRICANT AROUND SER	DE. EVIDENCE CE
FIRING PIN HEAD CATCHING ON R	EAR-LEFT CO-NER
OF HOUSING.	
COMPLAINT: FIRED AS BOLT WAS UNLOCK	
	PLAINTIFF'S
INCIDENT: FOLLOW DOWN	EXHIBIT
	3183
COMMENTS: THE CH, OS BETWEEN TRIGGE	E AND CONNECTOR
CAUSE SEAR- CONNECTOR ENGIS	
LEADING TO FOLLOW-DOWN, THE	*
LUBRICANT AND FIRING PIN HEAD-	
FERANCE ALSO CONTRIBUTE TO F	
MALFUNCTIONS. EXHIBIT	AL 0029713
■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	

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ではVED

ETTIGE - F. E. L. B.

Attention Mr. Cipcer.

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

RECEIVED

· IMAR 2 7 1973

INTERNATIONAL SALES

Gentlemen,

SUBJECT:

PROHIBITIVE FIREARM IMPORTS
MODELS 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.

DATES AND REASONS FOR REVISIONS 11/3/80-Revised 12/17/80 - Was Op. #150 - RIS - 279887	for MRP=RLJ-279453	
DESCRIPTIVE INFORMATION		
Trigger Engagement Octow #91120 (has a incluse on and of screw) NOTE: For Australian use only: tolieuthuto Trigger Engagement Borew, 1911171 tolieuwakhy Trigger Engagement Borew back forow, 191127 Trigger Pin 124477 **Trigger Pin 124477 ##Hatitutor **Trigger Housing Assombly 132905	Trigger Connection of the Conn	"For Australian use only: substitute Trigger screw Front followed by Trigger Screw Lock Screw."
PART NAME Trigger Assembly GOOLANT	SET UP MODEL NO.	7.00 OPER, NO. 154
TYPE	MACH HAS DE	PT. No. 61 PAGE 1 OF 11
Furm N. 11, 4464	moenine	

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

espirate linear property and the	/ 						
- M	ud Milkuer	DON'T	SAY IT-	WRITE	IT	Table 1	
-J1	ud Mulli			and the state of t	Naghter and		
10	JE DOMETO	1		•	DATE Dec	ember 21, 19	73
FROM	E. R. Carr	No.				. 1	
HOM _			Π /7				
		M/700-	CUSTOMER COME	LAINTS			
		Fires on	Safe - Follo	ova down			
		/					
	Over three years						L
	P.E. & C. for ex	all the resul	t of minimal	Connector-Se	oe readily	nt.	T.
		,					4.
	In June of 1972,				adjustment	on a compar	ator
	which assured a	william engat	gement of .o.				1
	It is my opinion	that review	of these guns	, except in	the case of	Damaged Act	ions
	or Personal Inju	ry guns, is r	pussent a	ified and sh	ould be dis	continued.	()
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	7	His	present in	The state of the s		Ø	10
	Jo	es 1.cos	J .	, .		, + aTa	U. We
			·	Che	1	of at a	nding
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W _a					of damy	elabout as	1/2/7
		TO BE SAFE	FIRST THINK YOU	MIGHT NOT &	£	F. Plus	ntet
						-	

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'T SAY IT-WRITE IT

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TO GEORGE MARTIN		•	0 4	DATE 15-2-75	
io catalogical individual	,	,	SAFETY MALFUNCTIONS	DATE TO S	1
FROM GEIE BULLS.	•		GALLERY		
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MODEL	, F	SR		<u> </u>	JO	<u>""</u> "	17:5	FD	· j:	7075	FOS		\$175	WI	11:	TOINL SAFETY MALFUNCTIONS BY MODEL
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TOTALS	14			-1417-			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 AND FOLLOWS THE COCKING CAM SURFACE OF THE BOLT TO THE FIRED POSITION).

FOS - FIRES ON SAFE (GUN FIRES WITH SAFE IN "ON" POSITION WHEN TRIGGER IS PULLED).

SWW - SAFETY WON'T WORK - SELF EXPL.

* - 1975 DATA FROM DEC. 26, AN TO APRIL 290, 1975 ONLY.

214/2

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 ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remination

PETERS

GIRL

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY"

For your info.

To: E.G. LARSON

FROM: E.F. SIENKIEWICZ

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 Arms Service charges for time and parts to make the repairs, totaling approximately \$50.00 to \$55.00 per gun 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 costing our Company between \$25,000 and \$27,000.

Et Suchianing

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 7T. Capeletti General Trigger - Lappon's memo of Oct 3/80 con 10/13/80 I have referred tobis to T capeletti's Group for action. To answer Farson's questions, (1) We must investigate this more fully (2) We do not worm) pout imperagen, 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

	,	Before 1975	1975 To Date	Total.
ı.	Total Tested	<u>907</u>	2,469	<u>3,376</u>
II.	Failed Trick Test Customer Caused Other	888% 444% 12	1457% 936% 23	2265% 1339% 35
ill.	Fires Off Safe Customer Caused Other	999% 以44%	2081% <u>5</u> 20%	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

REMINGTON ARMS CO. RECEIVED

J. P. Linde

MAR. 7 1980

T. W. Rawson, Bpt. E. G. Larson . .

INTER-DEPARTMENTAL CORRESPONDENÇE Remington, **QUPOKD**

QUIPUED

Total No.

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY".

E. HOOTON, JR.

REMINGTON ARMS COMPANY, INC.

Jor your Activ Control 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 failed the trick test and fires off safe (see attached letter).

Model_	Production for the Period	Complaints	Total No. Unable to Duplicate	Total No. Verified
700	83,862	133	89	Th.
788	14,735	10 =	4	6
600	-	. 5	. 3	2
660		1	- '	٦.
721	-	1	· 1	_
722	-	ı		ı
725	-	1	-	ī

Complaints - Unable to Duplicate

I. Mod	el 700	
1)	Rifle discharged when Safety is released	Sli
2)	Trigger stiff - misfires	7
3)	Follows Down	L
4)	Bolt closes hard and discharges	2
5)	Delayed firing	5
6)	Fires on closing Bolt when unloading	3
7)	Rifle discharged when Bolt handle raised	2
8)	Push Safety to "Off" position - slight touch of	
	Trigger and rifle discharges	1
9)	Accidental discharge	5
10)	Fires on closing	8
(בנ	Safety does not work	.1.
12)	Defective Safety - works hard	1
13)	Faulty Trigger - gun goes off	1
14)	Goes off prematurely .	1
		89

I. Model 700

Complaints:

ı)	Rifle discharges when Safety is re	leased .	Total No. = 19
	Causes:	No.	
	a) Insufficient Sear lift	3	
	b) Trigger bent .	i	
	c) Adjusting screws adjusted	_	
	outside of factory	8	3*
	d) Safety Detent ball missing	1	
	e) Excess oil in housing f) Interior of housing dirty	÷	
	g) Excess movement of Trigger	1	
	h) Trigger binds on Trigger Guard	1	
	i) Excess clearance - Trigger and		
	Trigger Pin	1	
	j) Safety not responsive	1 .	
2)	Follows Down		Total No. = 8
	Causes:	No.	
	a) Sear binds	lı.	
	b) Adjusting Screws adjusted	7	
	outside of factory	2 .	
	c) Connector broken	. 1	
	d) Engagement surfaces of Sear		
	and Connector chipped	ı	

Complaints Verified Contd.

I. Model 700 - Contd.

Causes:	No.
a) Insufficient Sear lift	1
b) Adjusting Screws adjusted outside of factory	ı

4) Saf

Causes:

3) Accidental Discharge

iety boes not work	TOTAL NO. =	

No.

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

Fires on Closin

Total No. =	1	ł
-------------	---	---

Causes:	No.
a) Interior of housing dirty - oily	ı
b) Sear rubs in housing	1
c) Adjusting Screws adjusted outside of factory	. 1
d) Connector broken	1

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

iute 7/25/83		Report	er Doi	nald McCluz	C
hop Name C. Wheeler Guns & Gunsu	ith Ser.	Gunsmith'	Name! C.F	Whoeler	
ddress 1908 E. George Washingt	on Way R	ichland,	i WA,		ip 99352
· No. & Street	City		State		
unsmith on Premises? Yes If r	ot, give add	ress below	7 ;		
unsmith's Address No. & Street		San and the san de life and the san a			ip ·
No. & Street	City		State		
ecommended List (X) Open Acct. (X)	% Disc.	30%	Dealer (X)	Large ()	Small (XX
	NEW GUN R				state transferre
1) C. Wheeler - Owner/Gunsmith	(2)		. t	
3}		(4)			
				į.	
PECIFIC PROBLEMS ENCOUNTERED:			National state of the		•

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

ENERAL DISCUSSION

4r. 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 nad 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-OBPARTMENTAL 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: tpp

cc: . W.E. Erlcson J.C. Hutton

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.

parerres.

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	FIRE ON BOLT	FIRE ON BOLT	OTH ER	# that are 600
		RELEASE	CLOSURE	OPENING		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
						2

1 h

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."